

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120823\
 Data File : VX039101.D
 Acq On : 08 Dec 2023 13:14
 Operator : JC/MD
 Sample : 05717-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 08 23:47:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

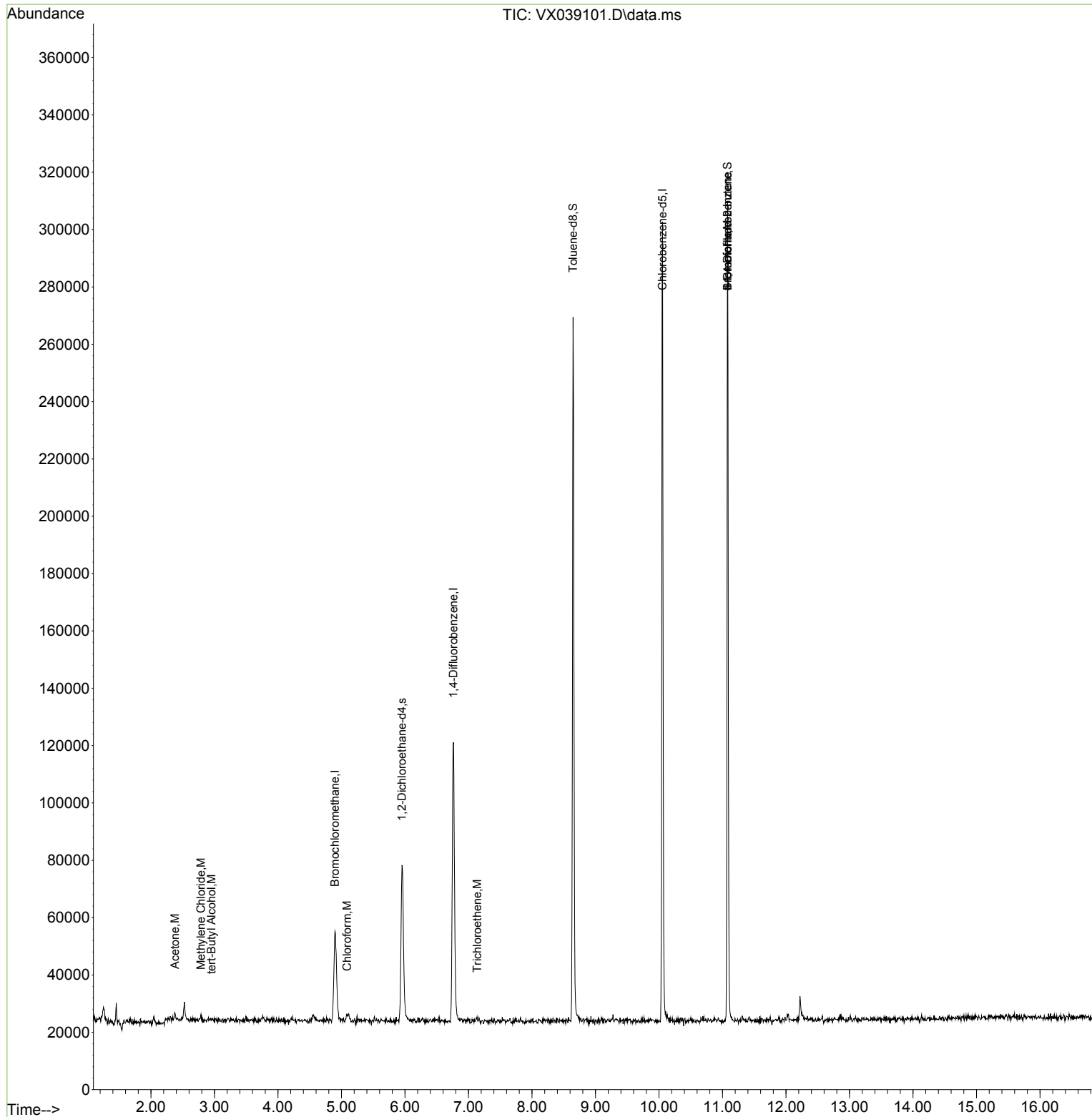
Internal Standards						
1) Bromochloromethane	4.898	128	12268	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	100119	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	125454	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	52007	30.987	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.300%
60) 4-Bromofluorobenzene	11.079	95	80709	29.454	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.167%
63) Toluene-d8	8.647	98	146124	29.460	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.200%
Target Compounds						
					Qvalue	
15) Acetone	2.380	58	961	2.077	ug/l #	57
18) Methylene Chloride	2.788	84	545	0.276	ug/l #	89
23) tert-Butyl Alcohol	2.953	59	378	0.536	ug/l #	100
25) Chloroform	5.087	83	1697	0.482	ug/l	88
37) Trichloroethene	7.135	130	513	0.247	ug/l #	55
56) Bromoform	11.079	173	326	0.203	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.079	75	41197	33.885	ug/l #	12

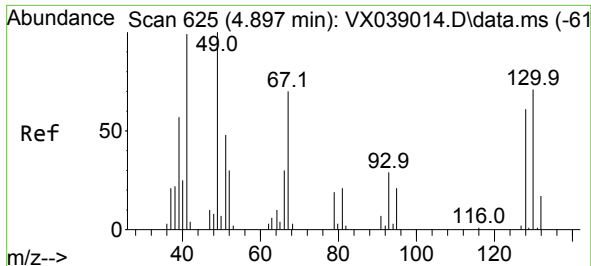
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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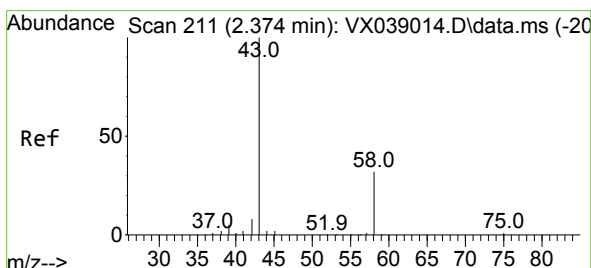
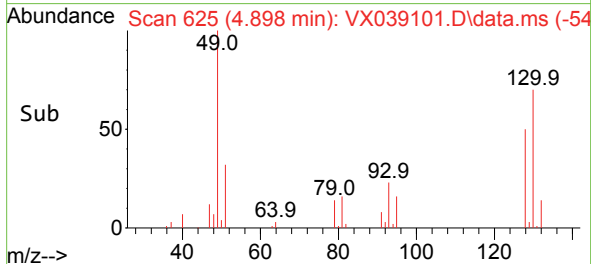
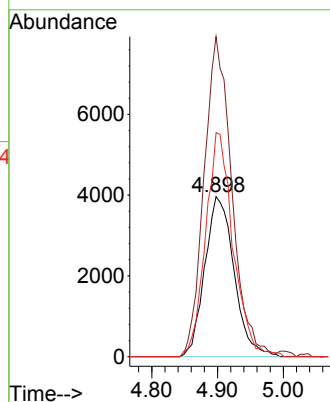
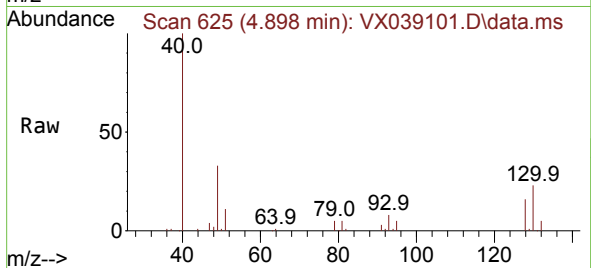




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. 0.001 min
Lab File: VX039101.D
Acq: 08 Dec 2023 13:14

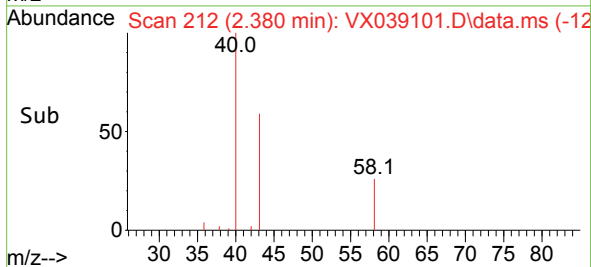
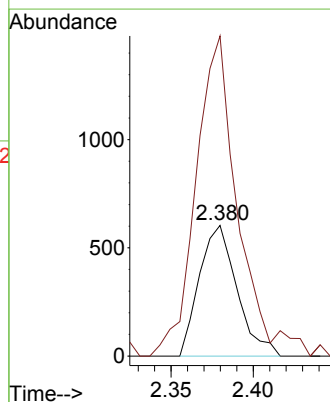
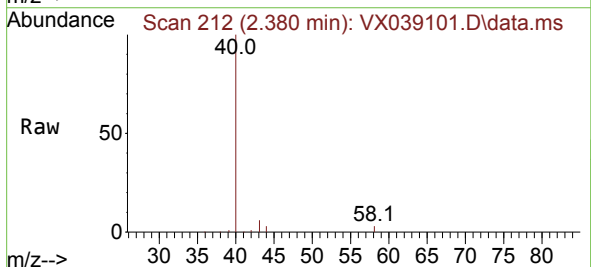
Instrument :
MSVOA_X
ClientSampleId :

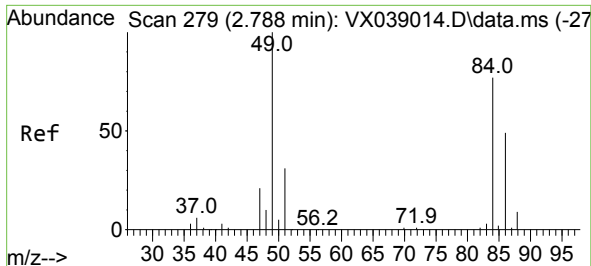
Tgt Ion:128 Resp: 12268
Ion Ratio Lower Upper
128 100
49 187.9 0.0 444.0
130 131.9 0.0 297.8



#15
Acetone
Concen: 2.077 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX039101.D
Acq: 08 Dec 2023 13:14

Tgt Ion: 58 Resp: 961
Ion Ratio Lower Upper
58 100
43 225.5 249.9 374.9#





#18

Methylene Chloride

Concen: 0.276 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

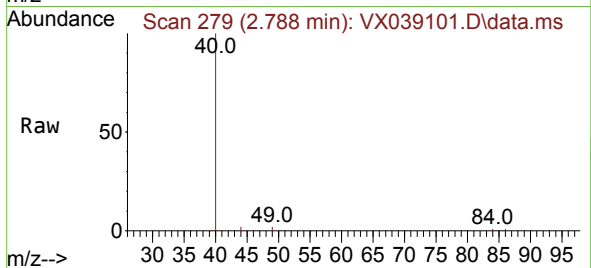
Lab File: VX039101.D

Acq: 08 Dec 2023 13:14

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 545

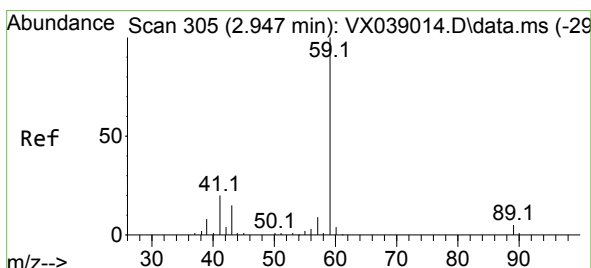
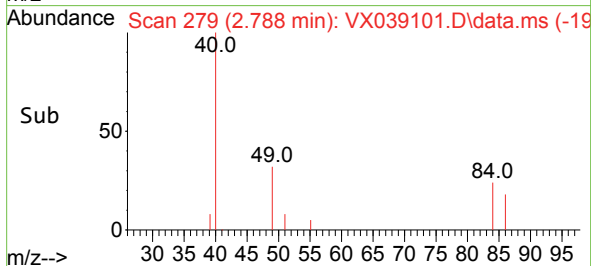
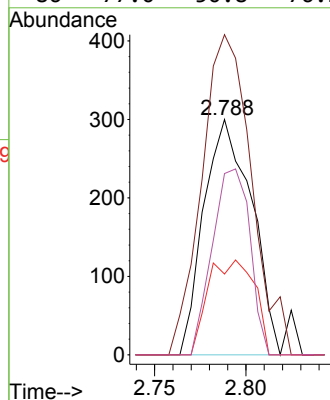
Ion Ratio Lower Upper

84 100

49 119.0 103.8 155.8

51 34.3 31.8 47.6

86 77.0 50.8 76.2#



#23

tert-Butyl Alcohol

Concen: 0.536 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.006 min

Lab File: VX039101.D

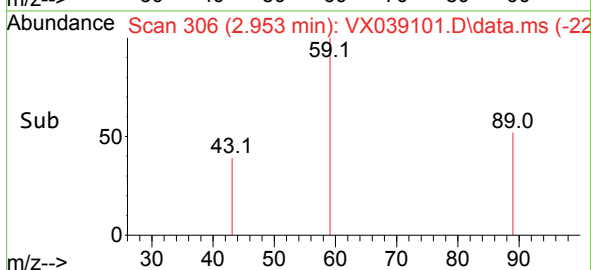
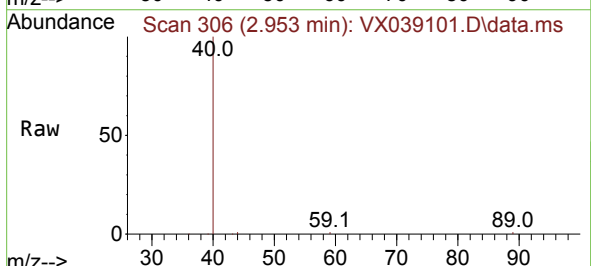
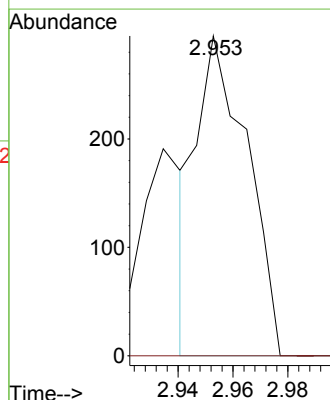
Acq: 08 Dec 2023 13:14

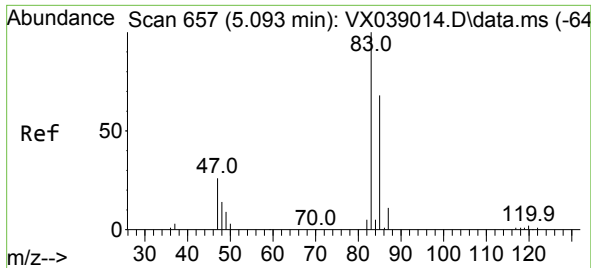
Tgt Ion: 59 Resp: 378

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#25

Chloroform

Concen: 0.482 ug/l

RT: 5.087 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX039101.D

Acq: 08 Dec 2023 13:14

Instrument :

MSVOA_X

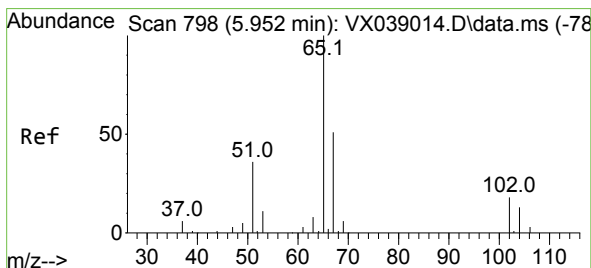
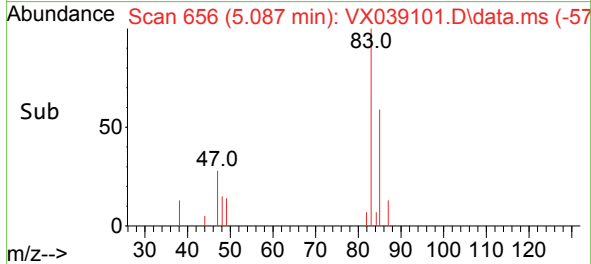
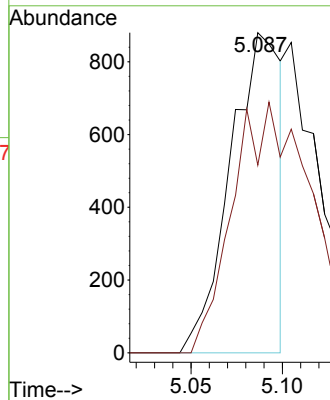
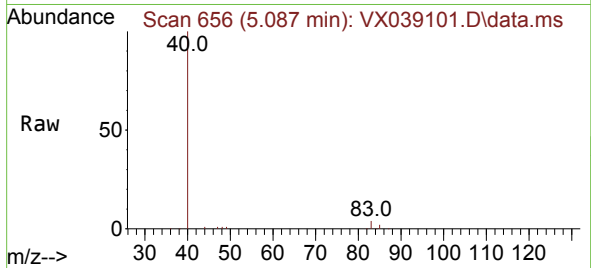
ClientSampleId :

Tgt Ion: 83 Resp: 1697

Ion Ratio Lower Upper

83 100

85 58.6 54.6 81.8



#27

1,2-Dichloroethane-d4

Concen: 30.987 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX039101.D

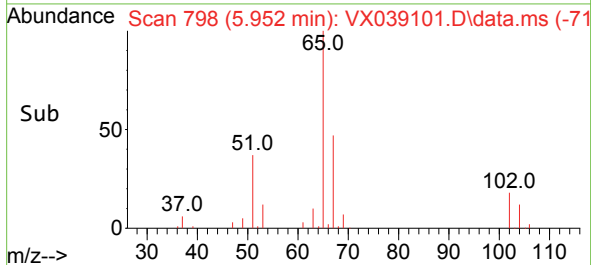
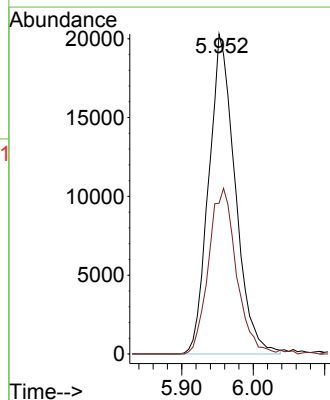
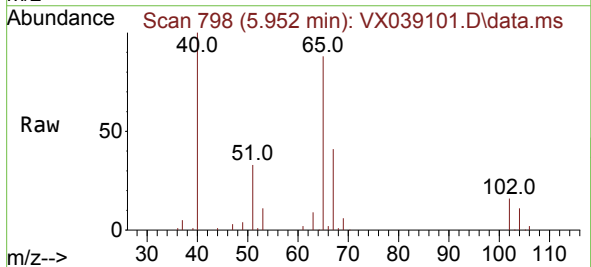
Acq: 08 Dec 2023 13:14

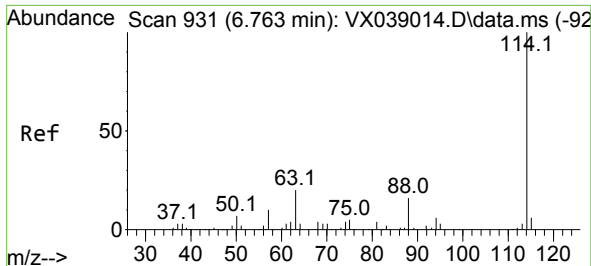
Tgt Ion: 65 Resp: 52007

Ion Ratio Lower Upper

65 100

67 54.4 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 911

Delta R.T. 0.000 min

Lab File: VX039101.D

Acq: 08 Dec 2023 13:14

Instrument :

MSVOA_X

ClientSampleId :

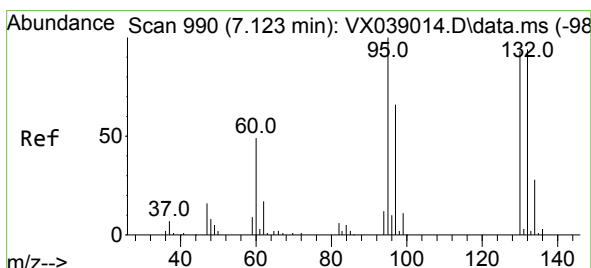
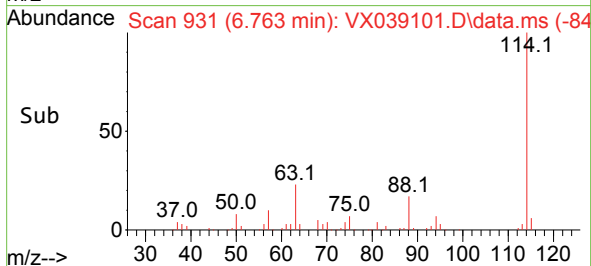
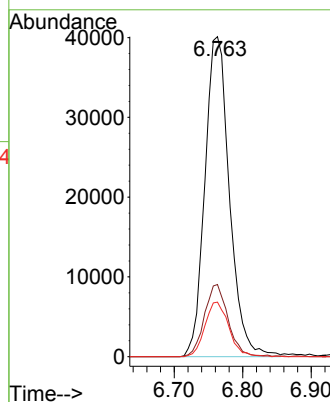
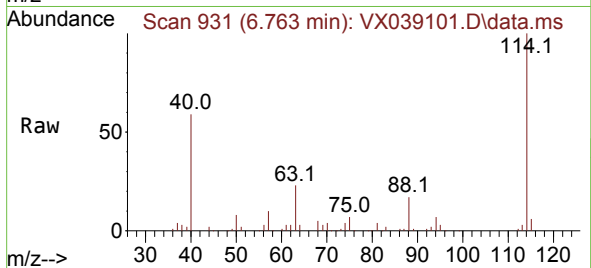
Tgt Ion:114 Resp: 100119

Ion Ratio Lower Upper

114 100

63 21.6 17.0 25.4

88 16.6 12.7 19.1



#37

Trichloroethene

Concen: 0.247 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.012 min

Lab File: VX039101.D

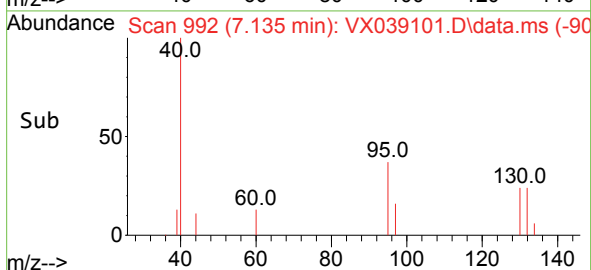
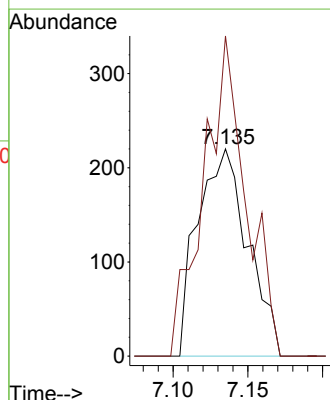
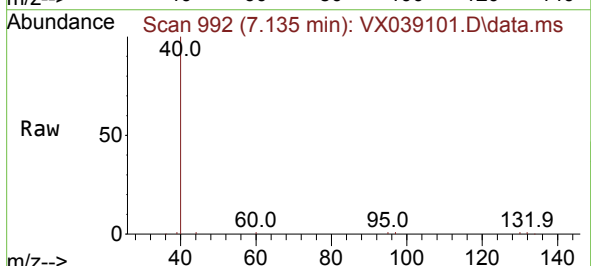
Acq: 08 Dec 2023 13:14

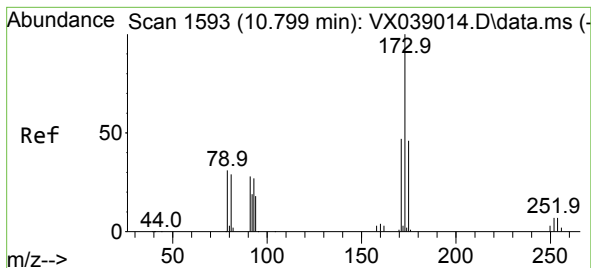
Tgt Ion:130 Resp: 513

Ion Ratio Lower Upper

130 100

95 154.5 85.8 128.8#





#56

Bromoform

Concen: 0.203 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.281 min

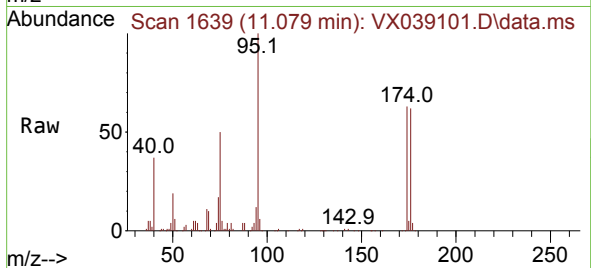
Lab File: VX039101.D

Acq: 08 Dec 2023 13:14

Instrument :

MSVOA_X

ClientSampleId :



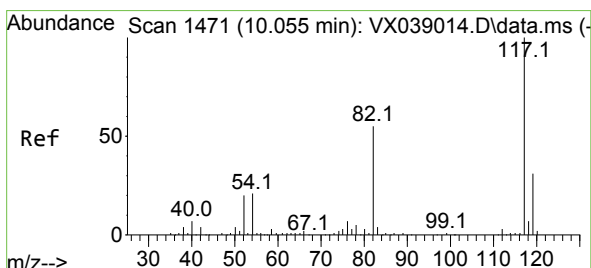
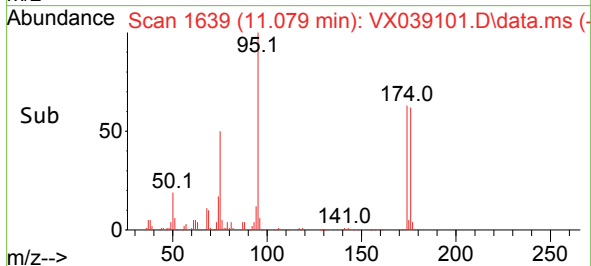
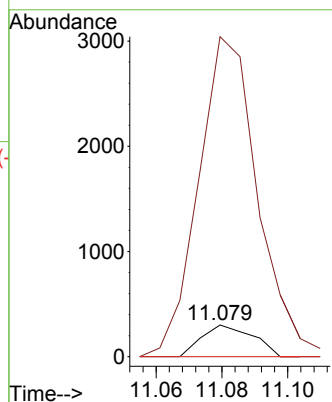
Tgt Ion:173 Resp: 326

Ion Ratio Lower Upper

173 100

175 1171.5 37.6 56.4#

254 0.0 5.8 8.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX039101.D

Acq: 08 Dec 2023 13:14

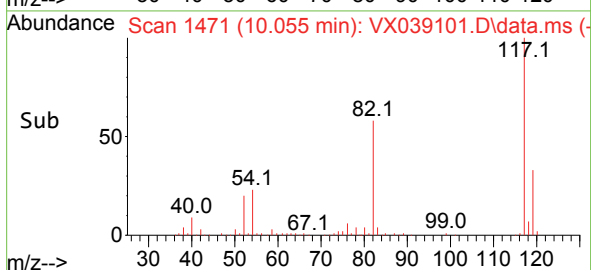
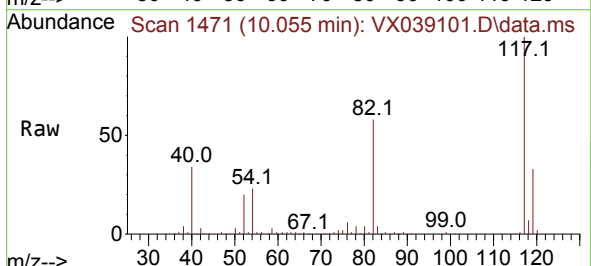
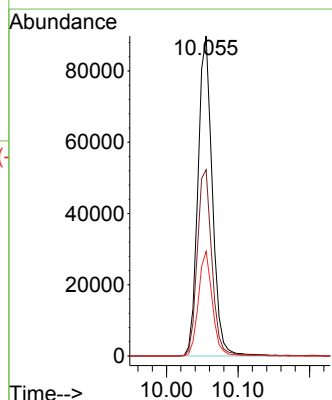
Tgt Ion:117 Resp: 125454

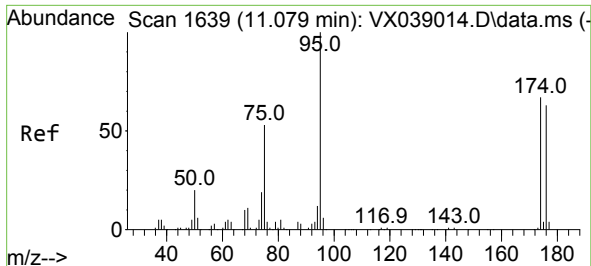
Ion Ratio Lower Upper

117 100

82 59.0 47.0 70.6

119 31.6 25.2 37.8

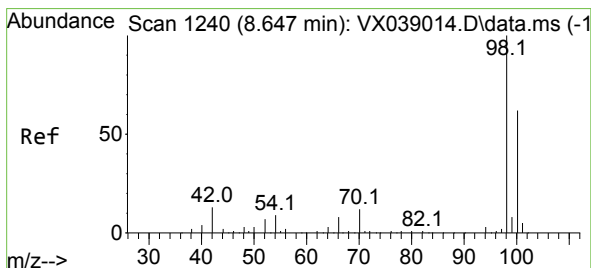
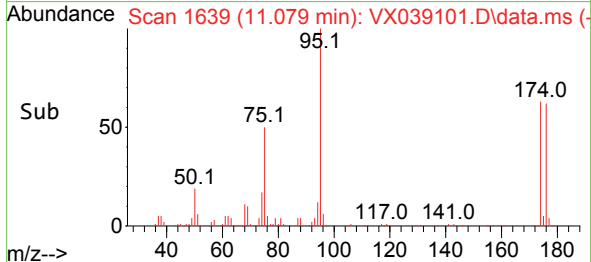
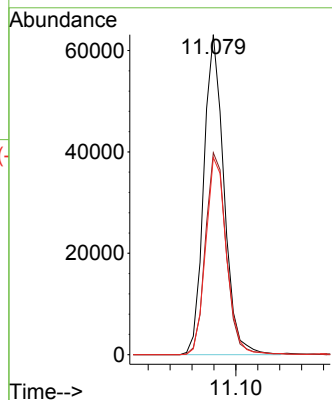
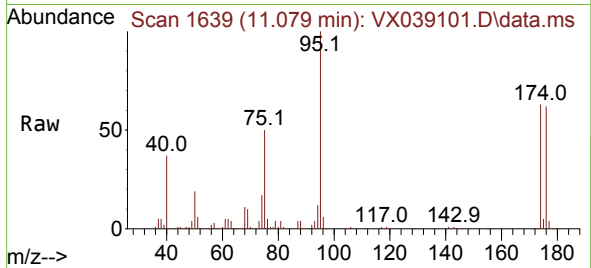




#60
4-Bromofluorobenzene
Concen: 29.454 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX039101.D
Acq: 08 Dec 2023 13:14

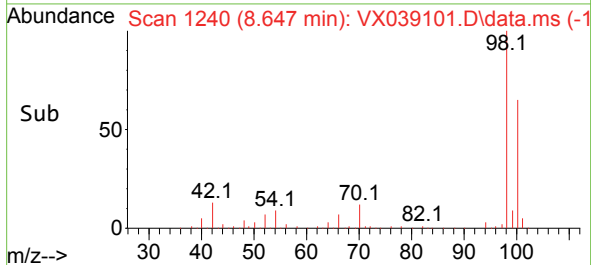
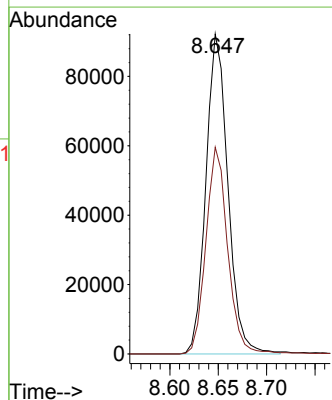
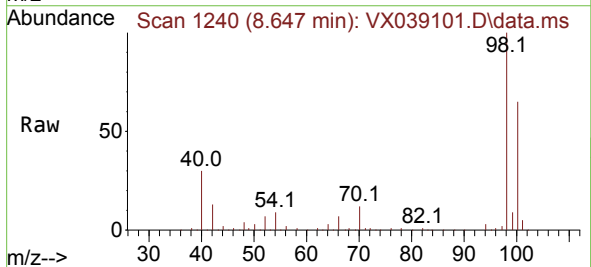
Instrument :
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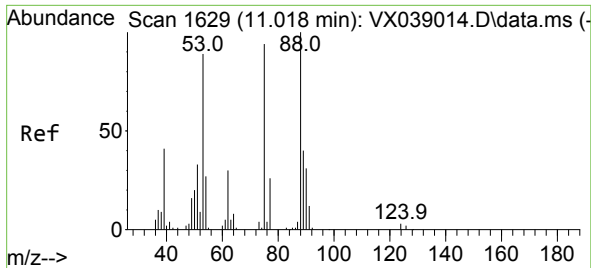
Tgt Ion: 95 Resp: 80709
Ion Ratio Lower Upper
95 100
174 65.0 55.4 83.2
176 63.3 52.6 78.8



#63
Toluene-d8
Concen: 29.460 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX039101.D
Acq: 08 Dec 2023 13:14

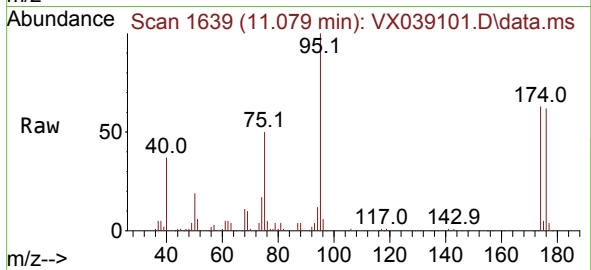
Tgt Ion: 98 Resp: 146124
Ion Ratio Lower Upper
98 100
100 64.2 51.0 76.4





#77
 t-1,4-Dichloro-2-butene
 Concen: 33.885 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX039101.D
 Acq: 08 Dec 2023 13:14

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion: 75 Resp: 41197
 Ion Ratio Lower Upper
 75 100
 53 0.0 46.9 140.8#
 89 0.0 21.3 63.7#

