

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX032219\
 Data File : VX008336.D
 Acq On : 22 Mar 2019 13:59
 Operator : JC/SP
 Sample : VX0322WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0322WBL01

Quant Time: Mar 22 15:36:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 15:33:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	32551	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	174260	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	146316	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	67670	30.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.40%
60) 4-Bromofluorobenzene	11.13	95	66435	27.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.97%
63) Toluene-d8	8.71	98	198435	30.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.33%

Target Compounds

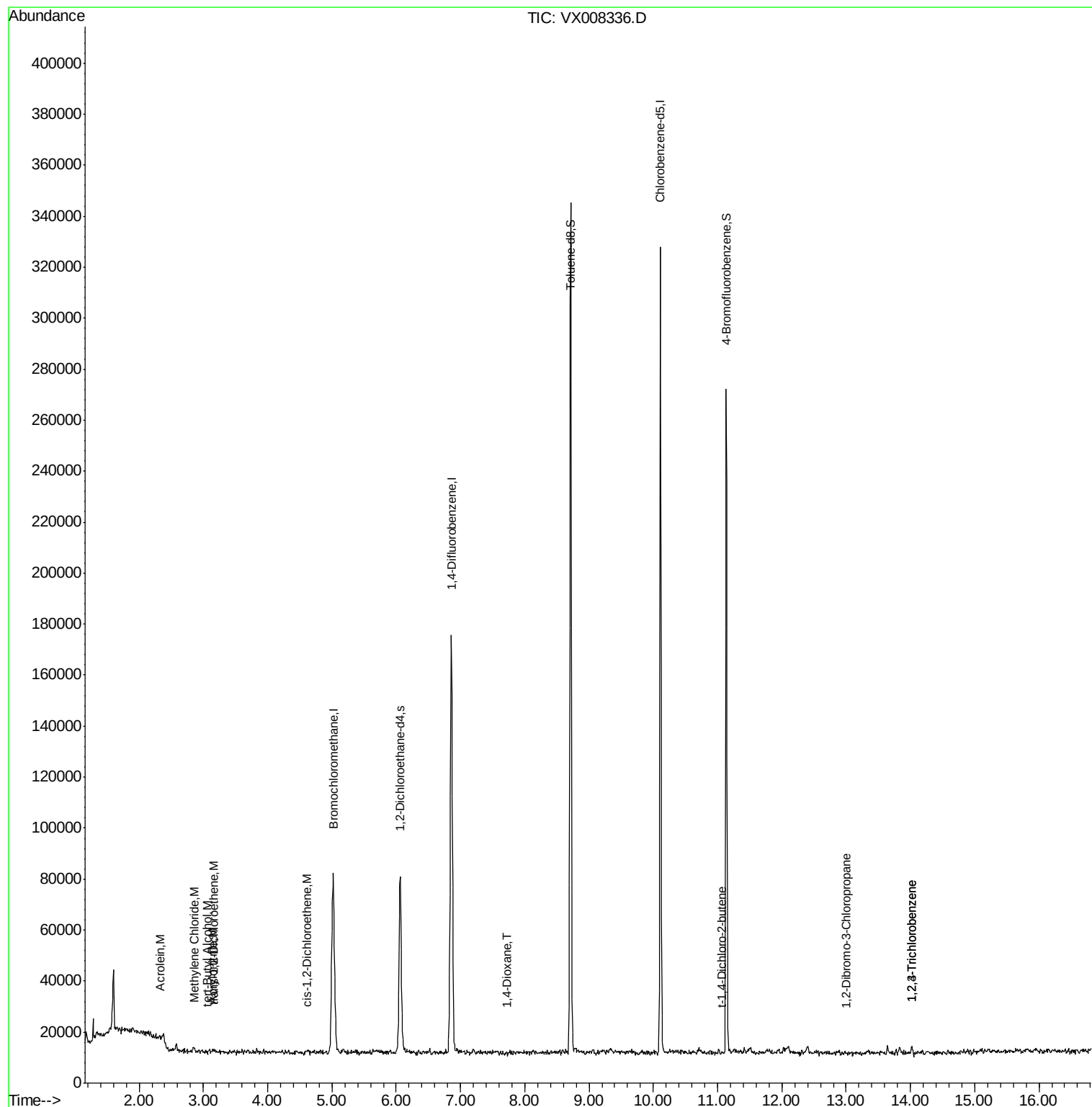
					Qvalue
13) Acrolein	2.33	56	129	0.431 ug/l	89
14) Acrylonitrile	3.14	53	258	0.272 ug/l #	1
18) Methylene Chloride	2.86	84	519	0.276 ug/l #	64
19) trans-1,2-Dichloroethene	3.17	96	613	0.330 ug/l #	40
22) cis-1,2-Dichloroethene	4.60	96	496	0.232 ug/l #	24
23) tert-Butyl Alcohol	3.05	59	257	0.668 ug/l #	47
45) 1,4-Dioxane	7.73	88	49	0.984 ug/l #	1
77) t-1,4-Dichloro-2-butene	11.06	75	180	0.219 ug/l #	16
88) 1,2-Dibromo-3-Chloropropan	13.00	75	144	0.219 ug/l #	1
89) 1,2,4-Trichlorobenzene	14.02	180	735	0.260 ug/l	92
92) 1,2,3-Trichlorobenzene	14.02	180	735	0.257 ug/l	91

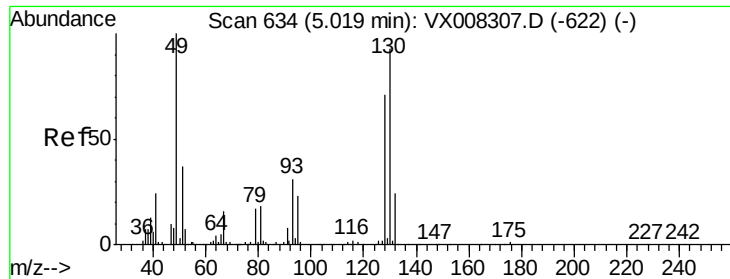
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX032219\
Data File : VX008336.D
Acq On : 22 Mar 2019 13:59
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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0322WBL01

Quant Time: Mar 22 15:36:57 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\624X032219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Mar 22 15:33:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.00 min

Lab File: VX008336.D

Acq: 22 Mar 2019 13:59

Instrument :

MSVOA_X

ClientSampleId :

VX0322WBL01

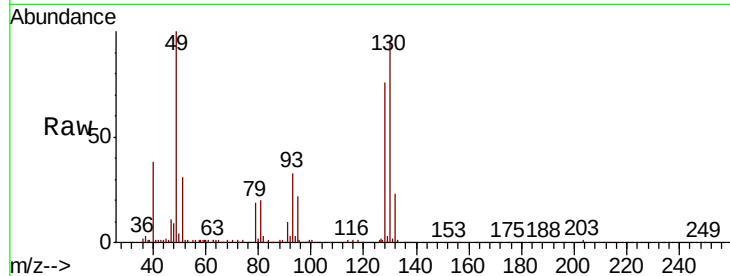
Tgt Ion:128 Resp: 32551

Ion Ratio Lower Upper

128 100

49 134.5 0.0 350.8

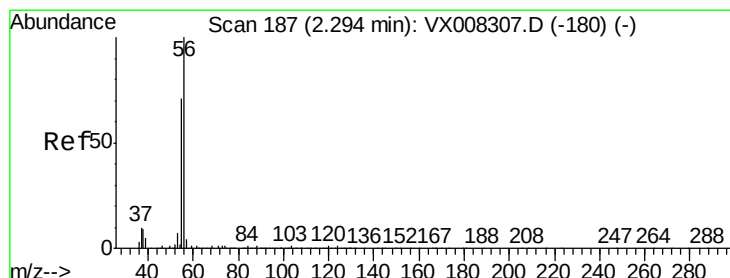
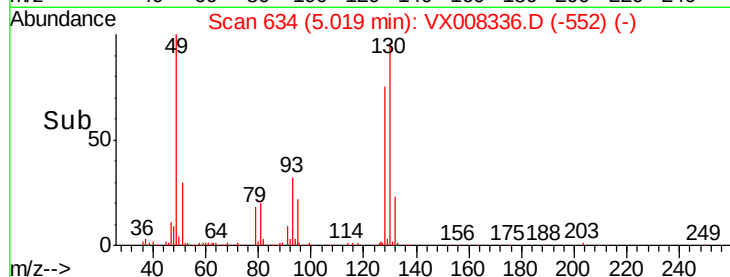
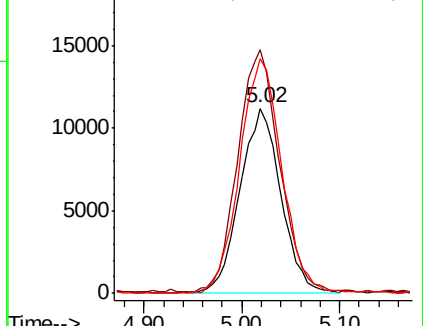
130 130.7 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.431 ug/l

RT: 2.33 min Scan# 193

Delta R.T. 0.04 min

Lab File: VX008336.D

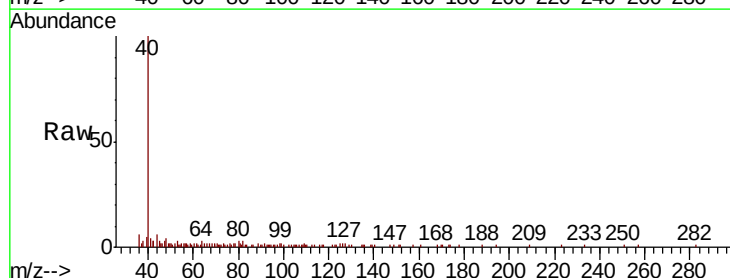
Acq: 22 Mar 2019 13:59

Tgt Ion: 56 Resp: 129

Ion Ratio Lower Upper

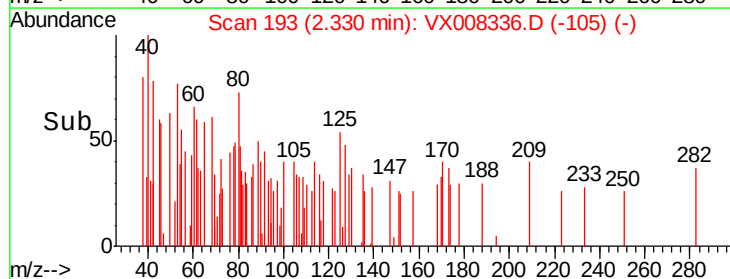
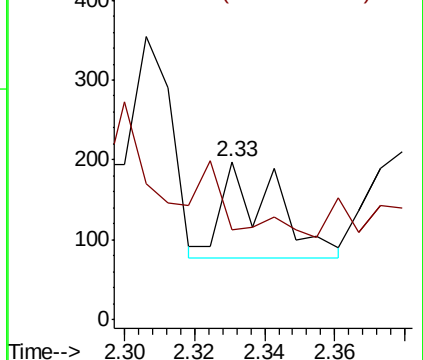
56 100

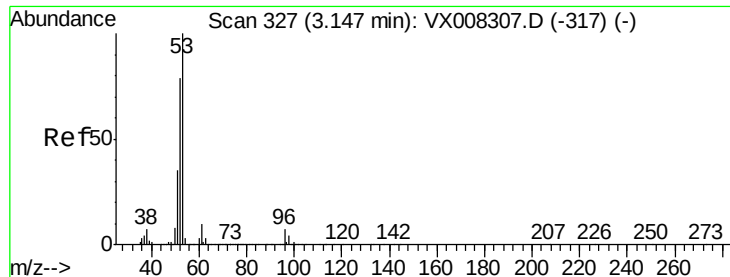
55 63.6 58.6 87.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#14

Acrylonitrile

Concen: 0.272 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX008336.D

Acq: 22 Mar 2019 13:59

Instrument :

MSVOA_X

ClientSampled :

VX0322WBL01

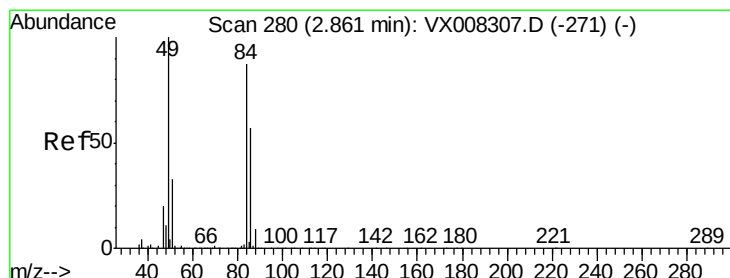
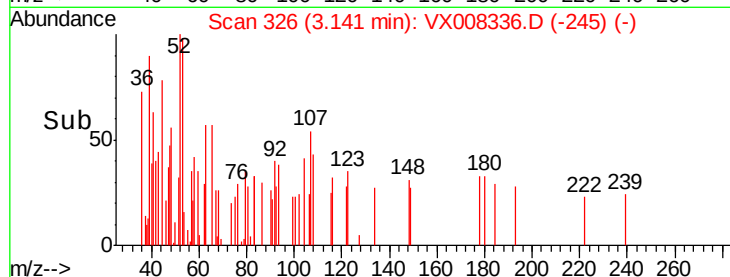
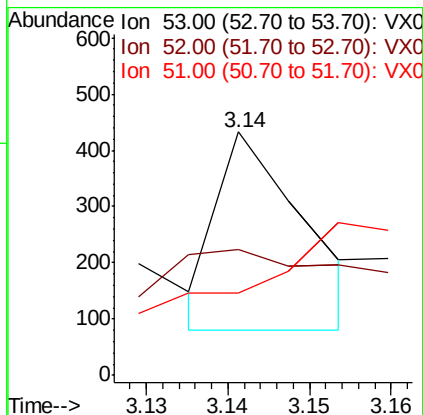
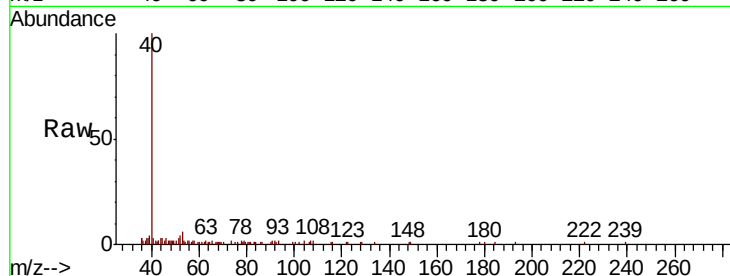
Tgt Ion: 53 Resp: 258

Ion Ratio Lower Upper

53 100

52 163.6 41.3 124.1#

51 108.9 17.5 52.6#



#18

Methylene Chloride

Concen: 0.276 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX008336.D

Acq: 22 Mar 2019 13:59

Tgt Ion: 84 Resp: 519

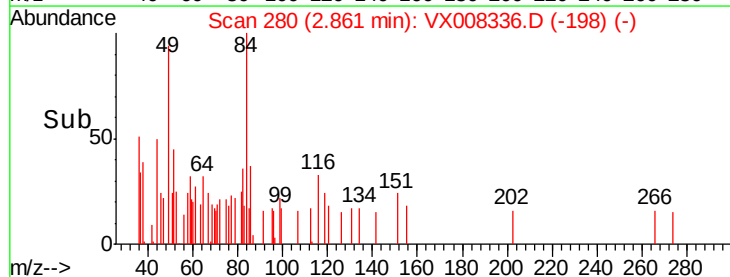
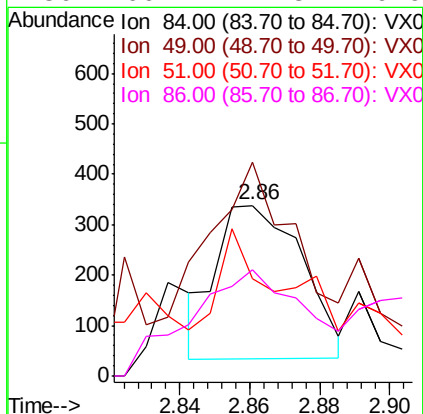
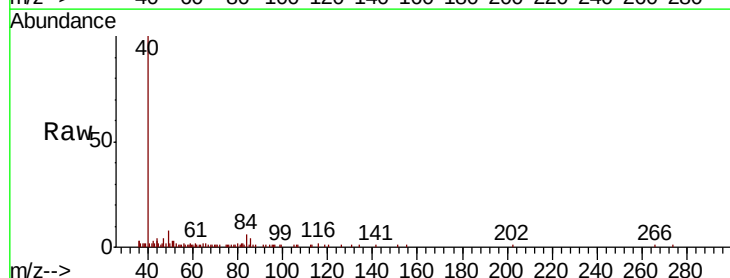
Ion Ratio Lower Upper

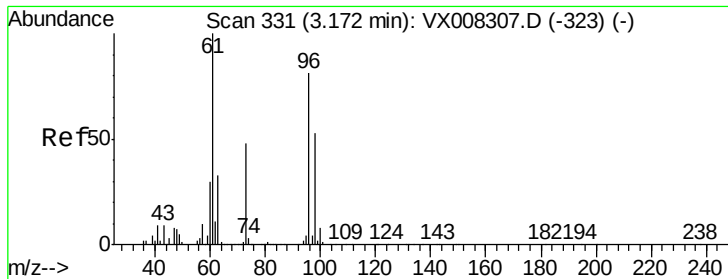
84 100

49 138.8 96.1 144.1

51 126.4 29.1 43.7#

86 60.7 47.3 70.9

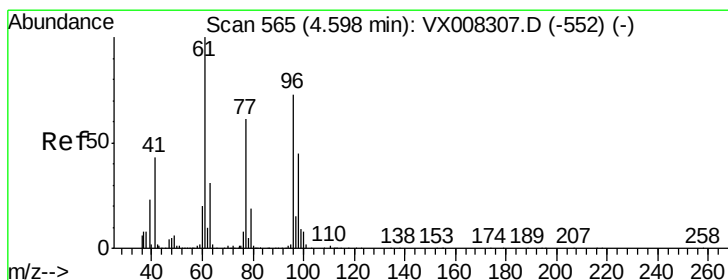
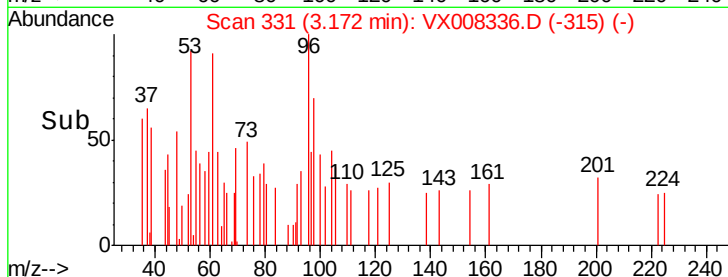
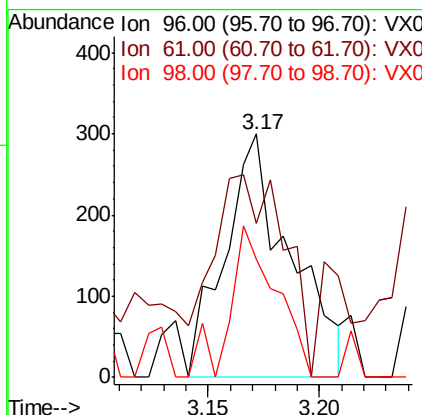
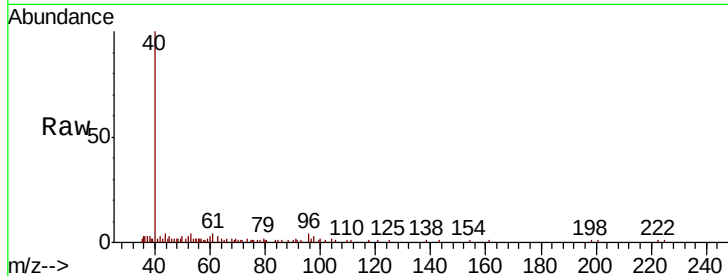




#19
trans-1,2-Dichloroethene
Concen: 0.330 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.00 min
Lab File: VX008336.D
Acq: 22 Mar 2019 13:59

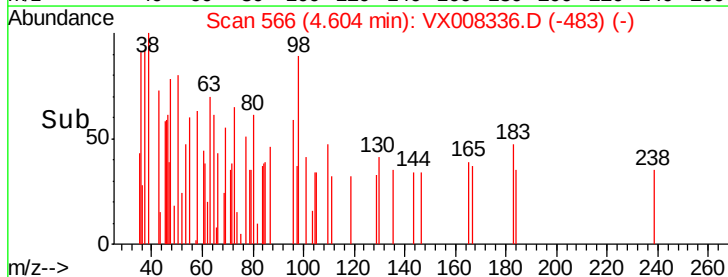
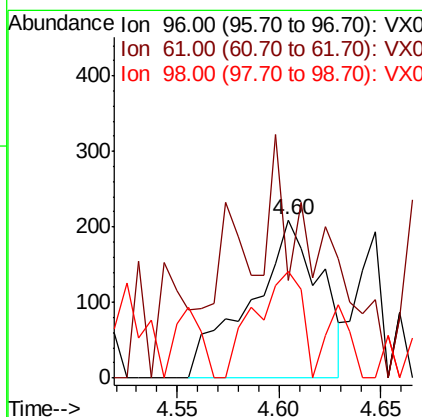
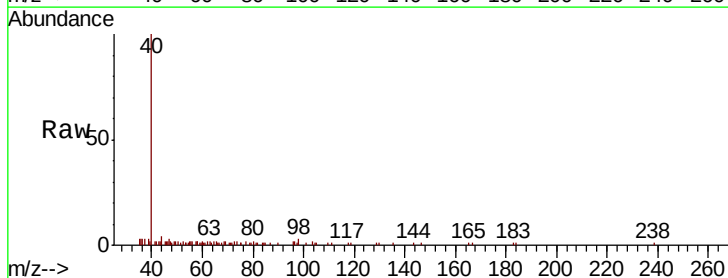
Instrument :
MSVOA_X
ClientSampleId :
VX0322WBL01

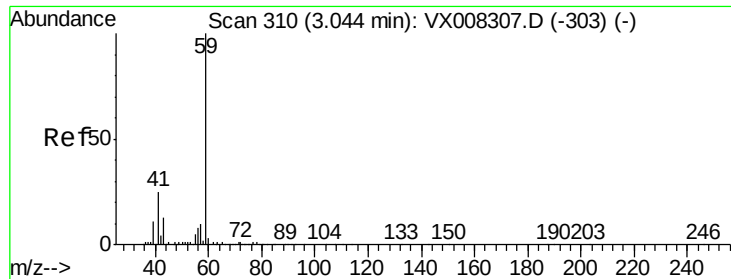
Tgt Ion: 96 Resp: 613
Ion Ratio Lower Upper
96 100
61 41.7 109.9 164.9#
98 48.3 50.4 75.6#



#22
cis-1,2-Dichloroethene
Concen: 0.232 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX008336.D
Acq: 22 Mar 2019 13:59

Tgt Ion: 96 Resp: 496
Ion Ratio Lower Upper
96 100
61 24.2 103.5 155.3#
98 28.2 52.1 78.1#



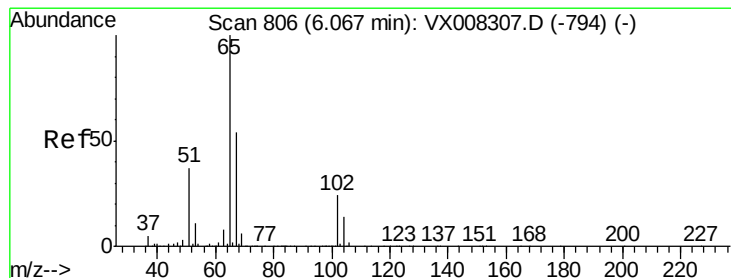
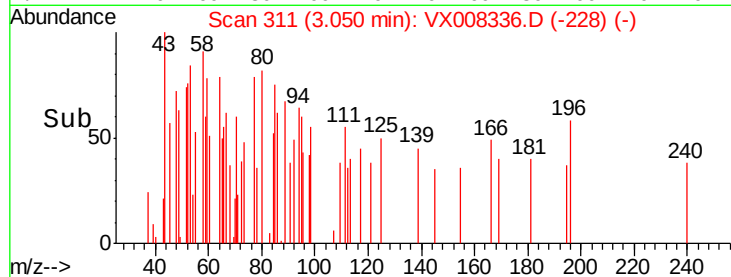
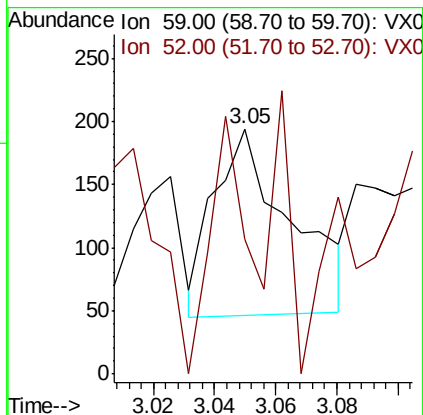
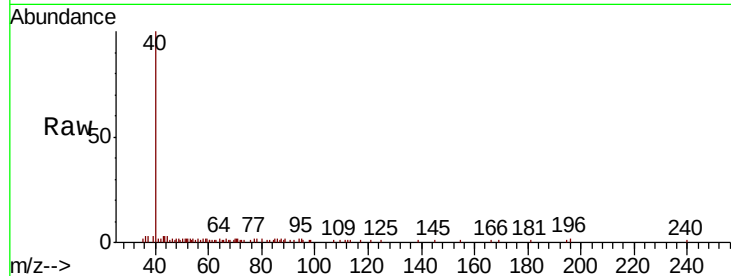


#23

tert-Butyl Alcohol
 Concen: 0.668 ug/l
 RT: 3.05 min Scan# 311
 Delta R.T. 0.01 min
 Lab File: VX008336.D
 Acq: 22 Mar 2019 13:59

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0322WBL01

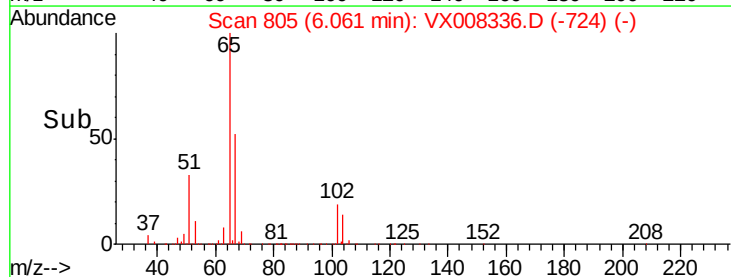
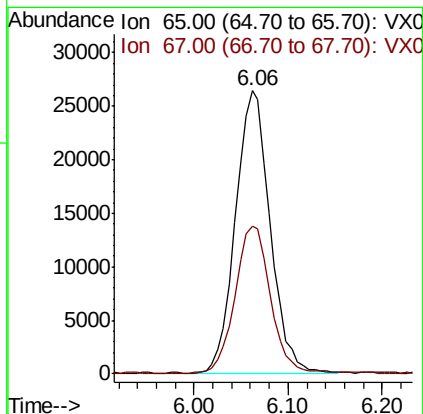
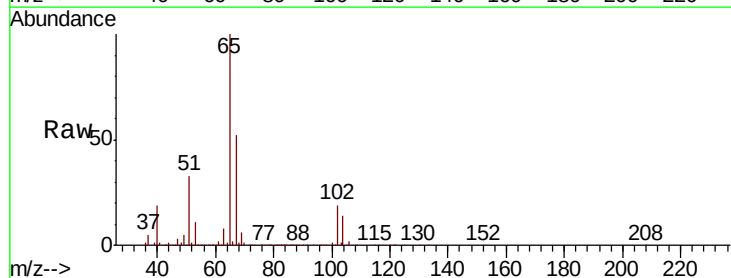
Tgt Ion: 59 Resp: 257
 Ion Ratio Lower Upper
 59 100
 52 67.7 0.2 0.2#

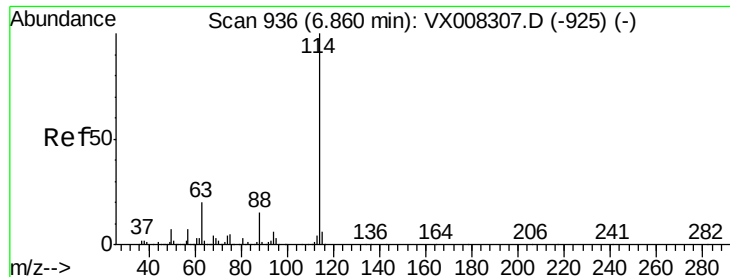


#27

1,2-Dichloroethane-d4
 Concen: 30.422 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX008336.D
 Acq: 22 Mar 2019 13:59

Tgt Ion: 65 Resp: 67670
 Ion Ratio Lower Upper
 65 100
 67 53.0 42.9 64.3

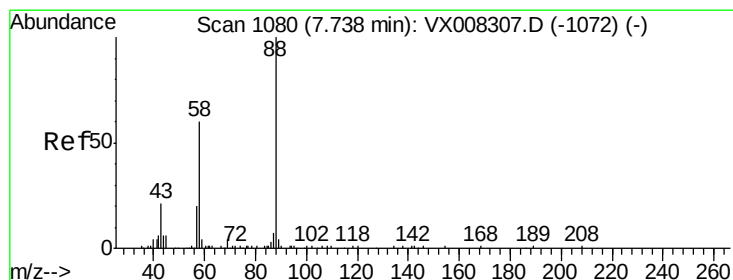
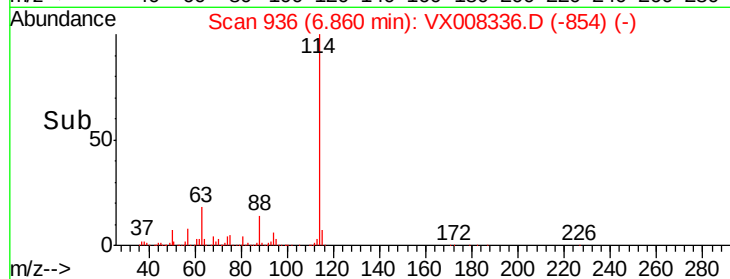
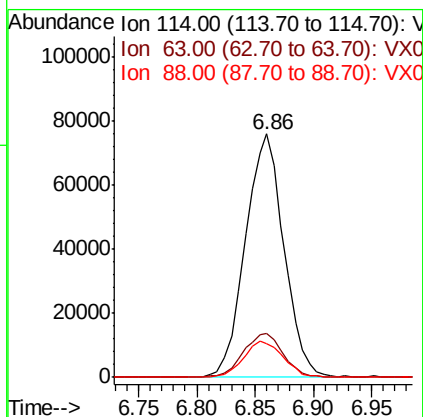
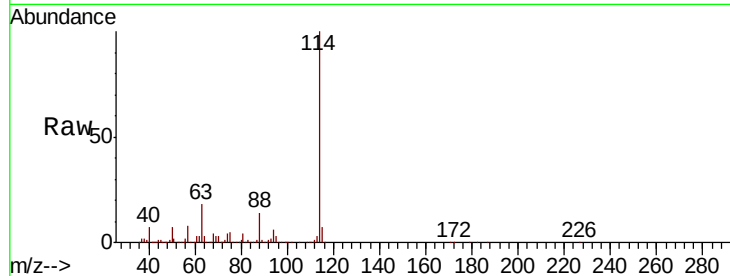




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008336.D
 Acq: 22 Mar 2019 13:59

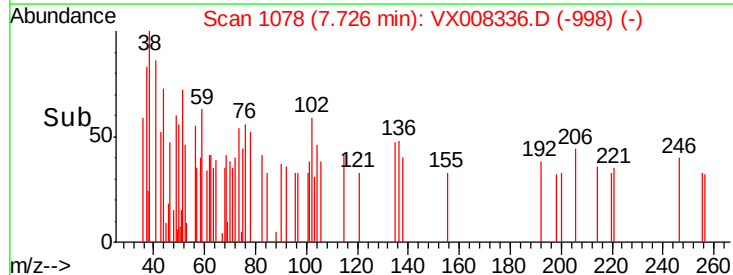
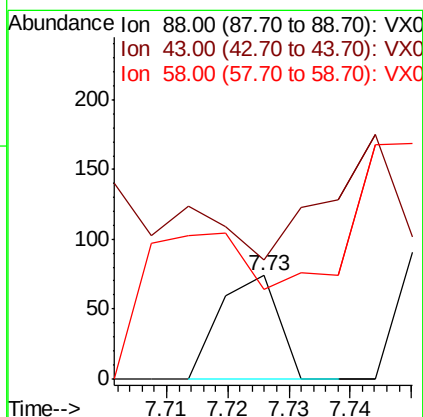
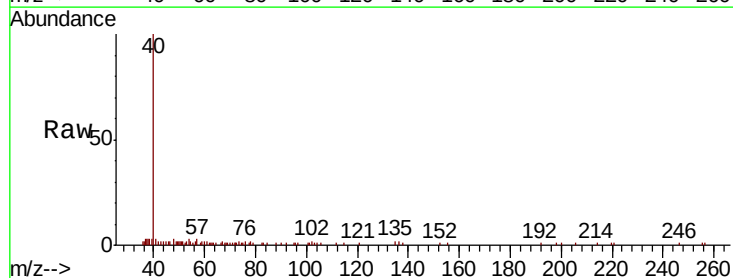
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0322WBL01

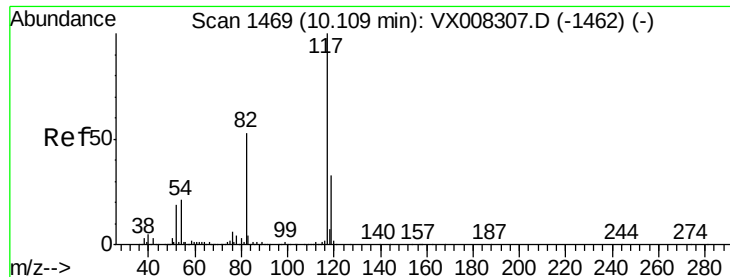
Tgt Ion: 114 Resp: 174260
 Ion Ratio Lower Upper
 114 100
 63 18.3 14.2 21.4
 88 15.2 11.9 17.9



#45
 1,4-Dioxane
 Concen: 0.984 ug/l
 RT: 7.73 min Scan# 1078
 Delta R.T. -0.01 min
 Lab File: VX008336.D
 Acq: 22 Mar 2019 13:59

Tgt Ion: 88 Resp: 49
 Ion Ratio Lower Upper
 88 100
 43 393.9 23.6 35.4#
 58 275.5 51.6 77.4#

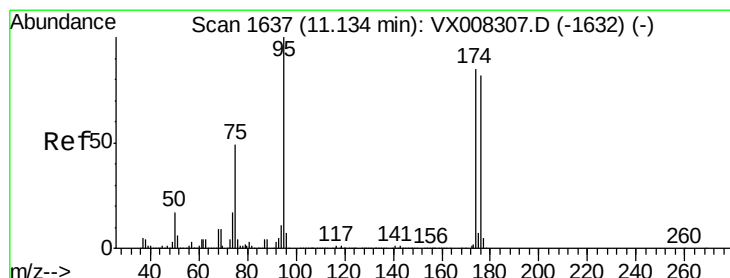
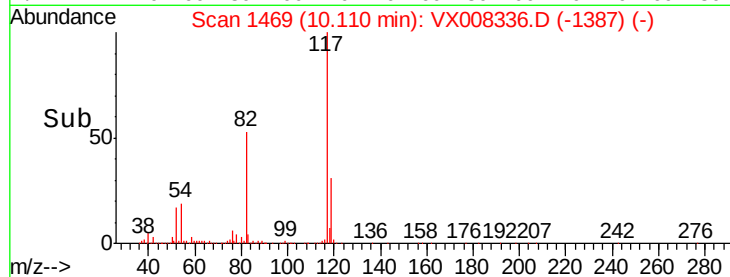
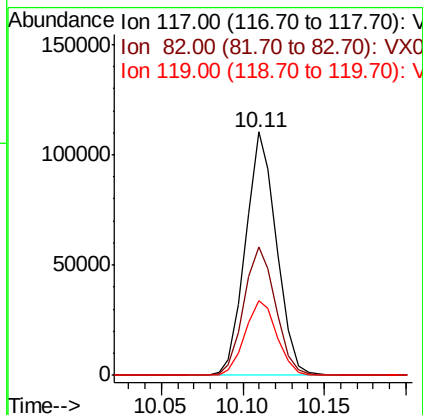
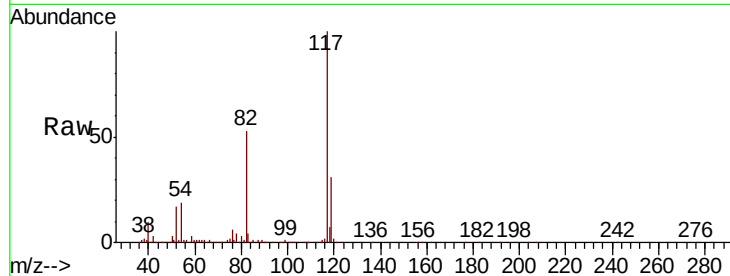




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008336.D
Acq: 22 Mar 2019 13:59

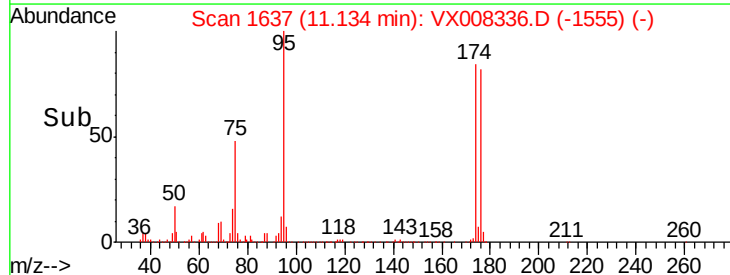
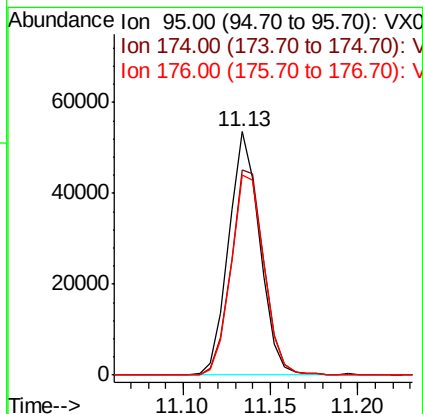
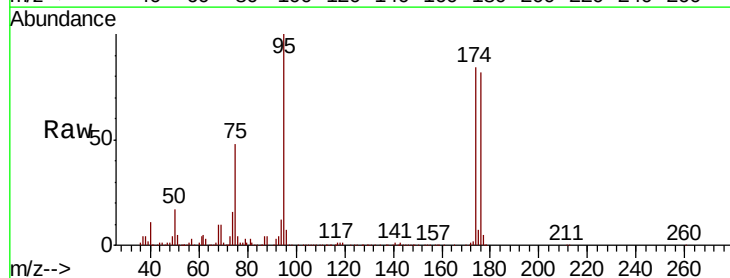
Instrument :
MSVOA_X
ClientSampleId :
VX0322WBL01

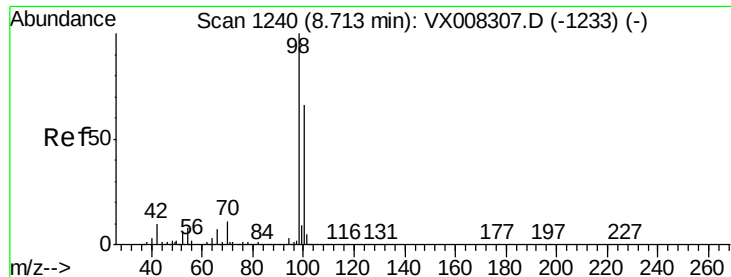
Tgt Ion: 117 Resp: 146316
Ion Ratio Lower Upper
117 100
82 54.1 40.4 60.6
119 31.9 25.8 38.6



#60
4-Bromofluorobenzene
Concen: 27.894 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008336.D
Acq: 22 Mar 2019 13:59

Tgt Ion: 95 Resp: 66435
Ion Ratio Lower Upper
95 100
174 89.7 74.9 112.3
176 87.1 70.7 106.1





#63

Toluene-d8

Concen: 30.101 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008336.D

Acq: 22 Mar 2019 13:59

Instrument :

MSVOA_X

ClientSampled :

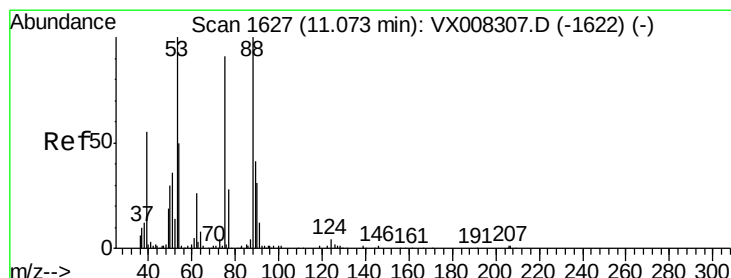
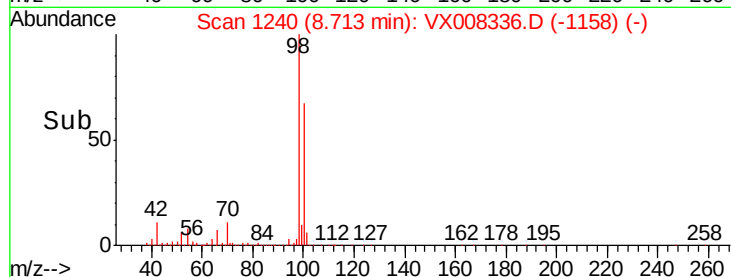
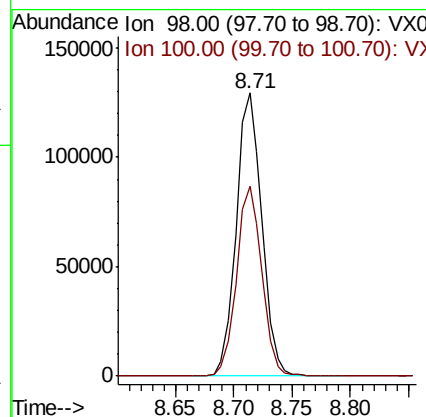
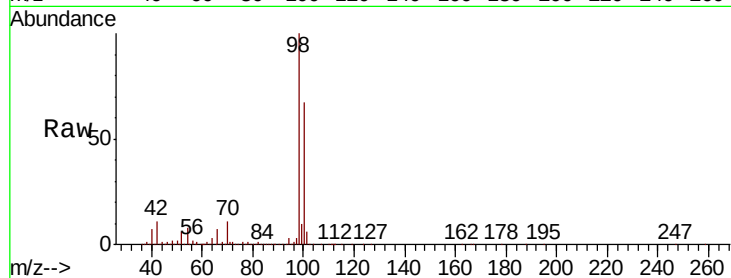
VX0322WBL01

Tgt Ion: 98 Resp: 198435

Ion Ratio Lower Upper

98 100

100 66.1 50.9 76.3



#77

t-1,4-Dichloro-2-butene

Concen: 0.219 ug/l

RT: 11.06 min Scan# 1625

Delta R.T. -0.01 min

Lab File: VX008336.D

Acq: 22 Mar 2019 13:59

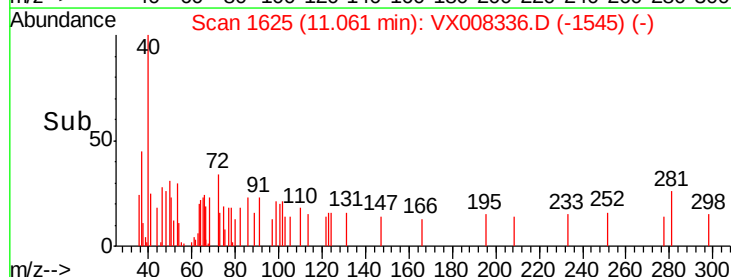
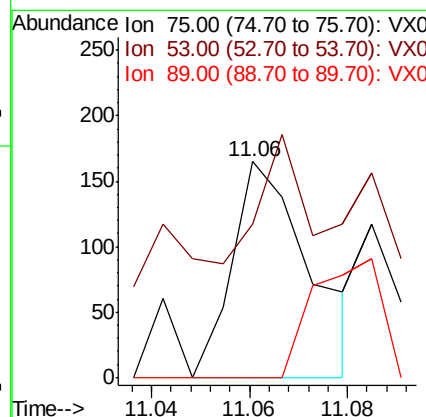
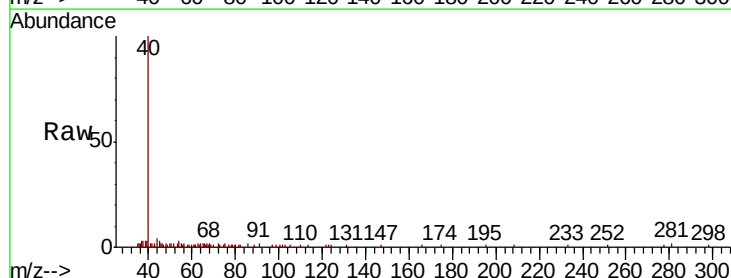
Tgt Ion: 75 Resp: 180

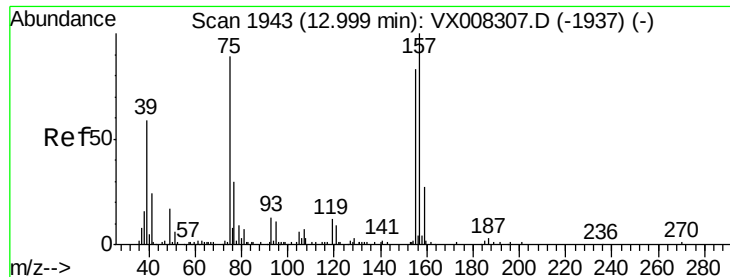
Ion Ratio Lower Upper

75 100

53 15.8 55.5 166.7#

89 0.0 24.4 73.2#





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.219 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VX008336.D

Acq: 22 Mar 2019 13:59

Instrument :

MSVOA_X

ClientSampleId :

VX0322WBL01

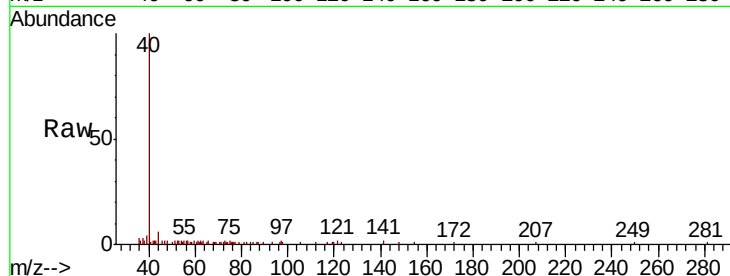
Tgt Ion: 75 Resp: 144

Ion Ratio Lower Upper

75 100

155 13.9 81.0 121.6#

157 0.0 103.2 154.8#



Abundance Ion 75.00 (74.70 to 75.70): VX008336.D (-1861) (-)

Ion 155.00 (154.70 to 155.70): VX008336.D (-1861) (-)

Ion 157.00 (156.70 to 157.70): VX008336.D (-1861) (-)

13.00

12.98

13.00

13.02

13.04

13.06

13.08

13.10

13.12

13.14

13.16

13.18

13.20

13.22

13.24

13.26

13.28

13.30

13.32

13.34

13.36

13.38

13.40

13.42

13.44

13.46

13.48

13.50

13.52

13.54

13.56

13.58

13.60

13.62

13.64

13.66

13.68

13.70

13.72

13.74

13.76

13.78

13.80

13.82

13.84

13.86

13.88

13.90

13.92

13.94

13.96

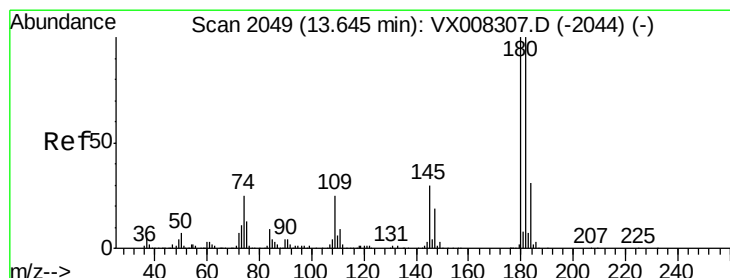
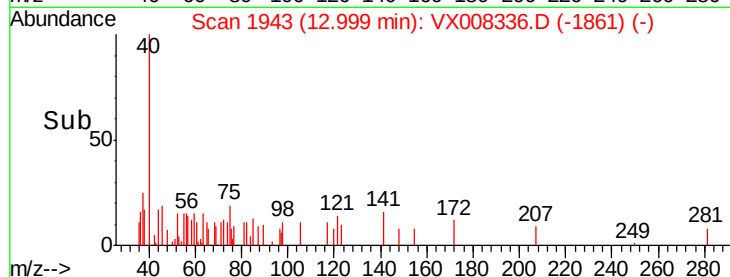
13.98

14.00

14.02

14.04

14.06



#89

1,2,4-Trichlorobenzene

Concen: 0.260 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.37 min

Lab File: VX008336.D

Acq: 22 Mar 2019 13:59

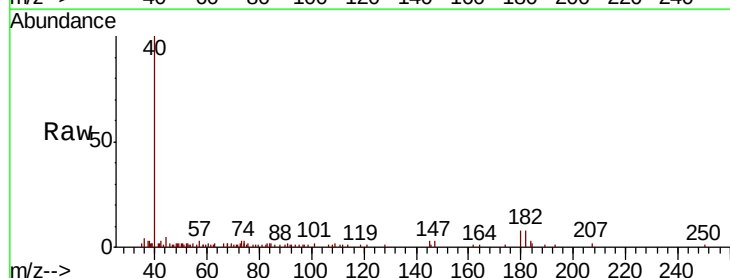
Tgt Ion: 180 Resp: 735

Ion Ratio Lower Upper

180 100

182 86.9 75.6 113.4

145 34.1 23.0 34.6



Abundance Ion 180.00 (179.70 to 180.70): VX008336.D (-1967) (-)

Ion 182.00 (181.70 to 182.70): VX008336.D (-1967) (-)

Ion 145.00 (144.70 to 145.70): VX008336.D (-1967) (-)

14.02

14.00

14.02

14.04

14.06

14.08

14.10

14.12

14.14

14.16

14.18

14.20

14.22

14.24

14.26

14.28

14.30

14.32

14.34

14.36

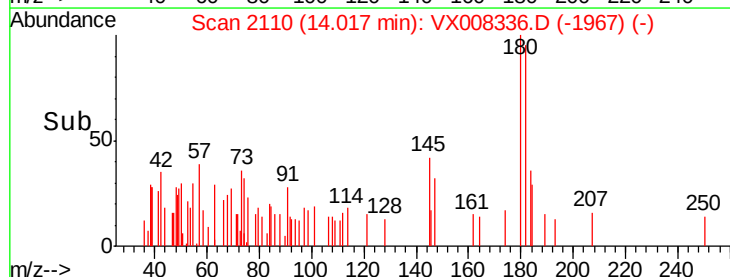
14.38

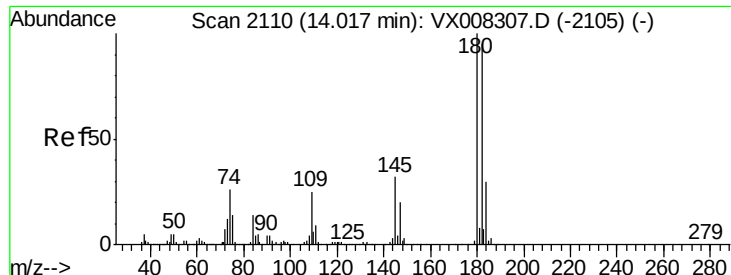
14.40

14.42

14.44

14.46





#92
 1,2,3-Trichlorobenzene
 Concen: 0.257 ug/l
 RT: 14.02 min Scan# 2110
 Delta R.T. 0.00 min
 Lab File: VX008336.D
 Acq: 22 Mar 2019 13:59

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0322WBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.9	0.0	193.0
145	34.1	0.0	63.0

