

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032119\
 Data File : VX008284.D
 Acq On : 21 Mar 2019 12:19
 Operator : JC/SP
 Sample : VX0321WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0321WBL01

Quant Time: Mar 22 08:41:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 13:15:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	310560	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	508187	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	419608	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	169639	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	216599	46.31	ug/l	0.00
Spiked Amount						
			Recovery	=	92.62%	
35) Dibromofluoromethane	5.50	113	163581	48.08	ug/l	0.00
Spiked Amount						
			Recovery	=	96.16%	
50) Toluene-d8	8.71	98	615767	47.74	ug/l	0.00
Spiked Amount						
			Recovery	=	95.48%	
62) 4-Bromofluorobenzene	11.13	95	193578	43.59	ug/l	0.00
Spiked Amount						
			Recovery	=	87.18%	

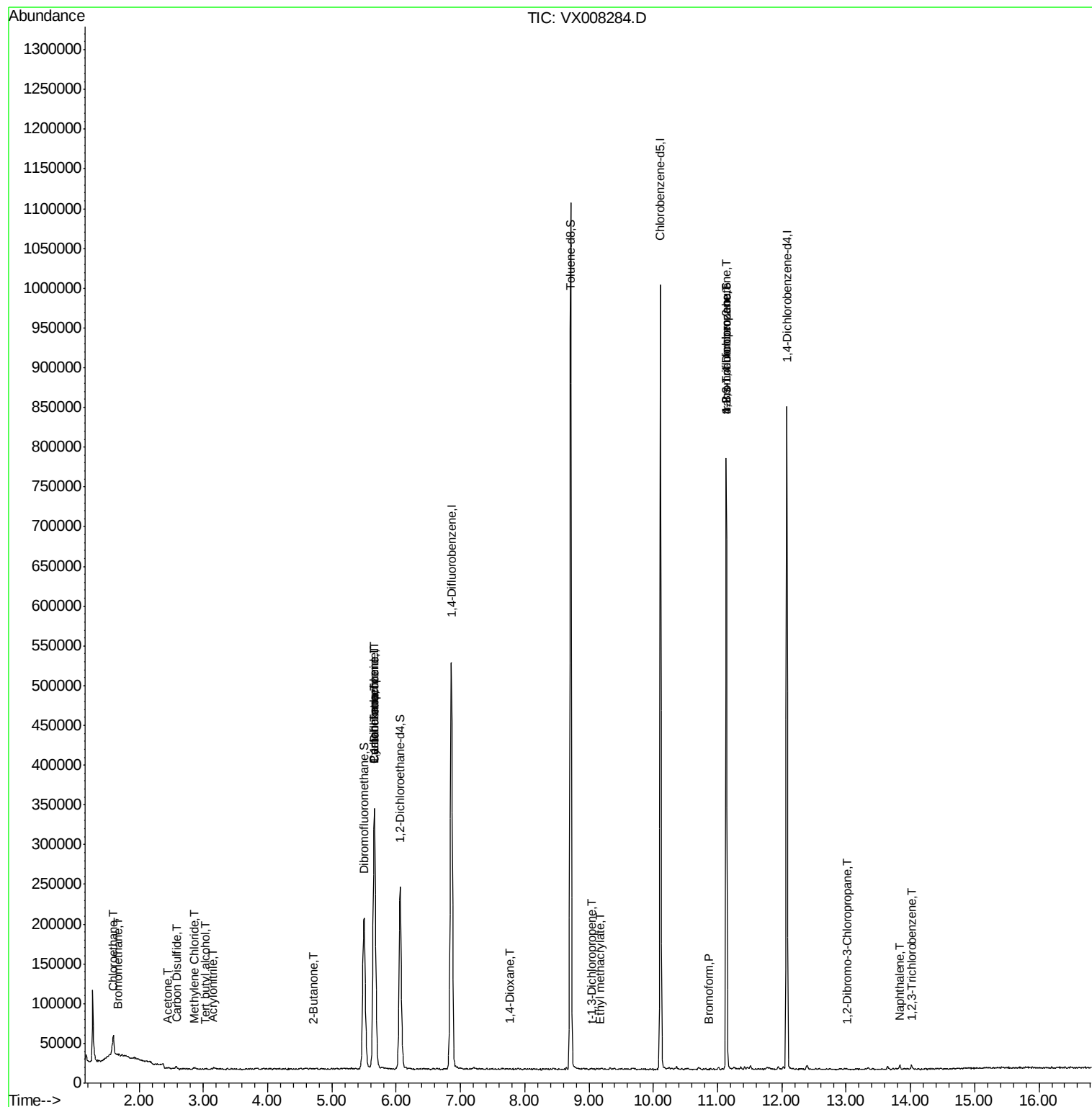
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	928	0.231	ug/l	91
6) Chloroethane	1.59	64	47493	16.080	ug/l #	53
11) Tert butyl alcohol	3.04	59	604	0.603	ug/l #	4
13) Acrolein	2.29	56	658	Below Cal	#	40
15) Acrylonitrile	3.15	53	1439	0.543	ug/l #	93
16) Acetone	2.44	43	1408	0.531	ug/l #	65
17) Carbon Disulfide	2.57	76	3938	0.991	ug/l #	95
20) Methylene Chloride	2.86	84	1062	0.240	ug/l #	82
25) 2-Butanone	4.71	43	1003	0.256	ug/l	92
31) Cyclohexane	5.66	56	6625	0.854	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	24059	4.066	ug/l #	50
38) Carbon Tetrachloride	5.66	117	30609	5.806	ug/l #	16
49) 1,4-Dioxane	7.76	88	361	3.432	ug/l #	1
53) t-1,3-Dichloropropene	9.04	75	621	1.507	ug/l #	68
56) Ethyl methacrylate	9.18	69	428	0.583	ug/l #	75
71) Bromoform	10.87	173	197	2.263	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	100666	21.098	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	100666	53.677	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	13.01	75	325	0.270	ug/l #	21
95) Naphthalene	13.83	128	2985	0.218	ug/l #	93
96) 1,2,3-Trichlorobenzene	14.02	180	1110	0.260	ug/l	93

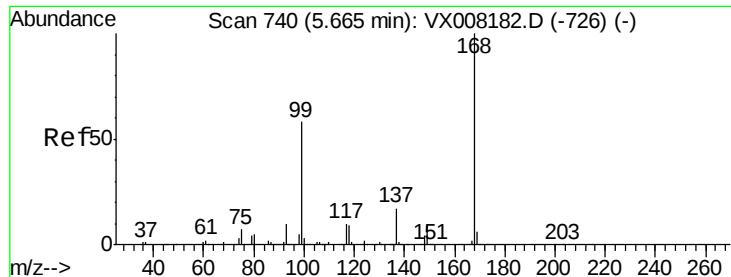
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

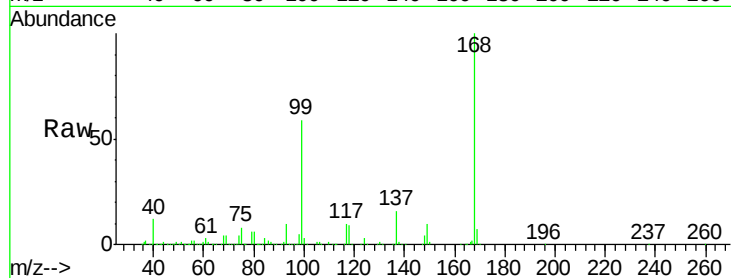
VX0321WBL01

Tot Ion:168 Resp: 310560

Ion Ratio Lower Upper

168 100

99 58.9 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

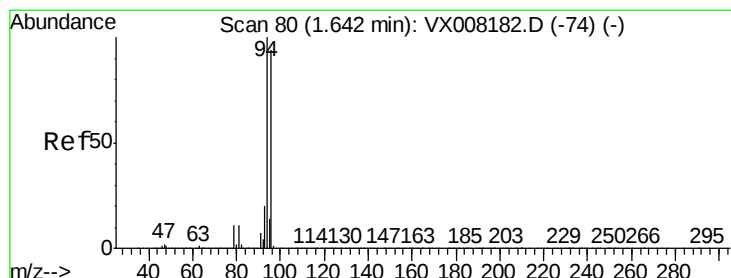
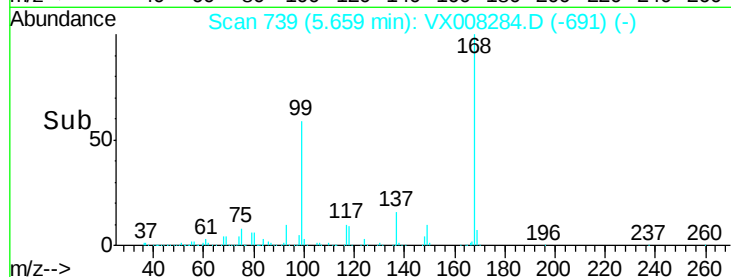
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.231 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX008284.D

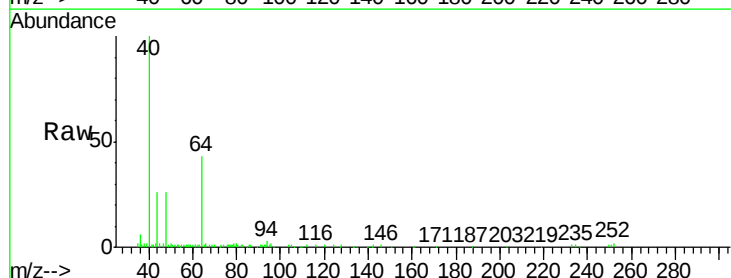
Acq: 21 Mar 2019 12:19

Tgt Ion: 94 Resp: 928

Ion Ratio Lower Upper

94 100

96 85.5 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.67

400

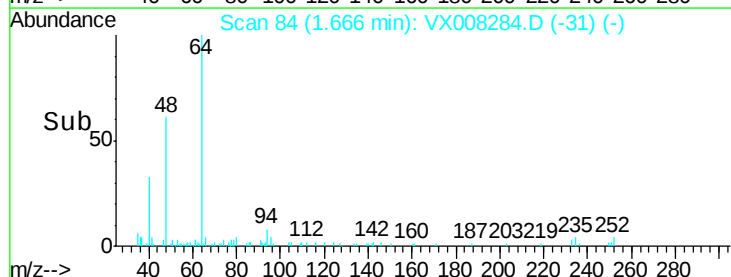
300

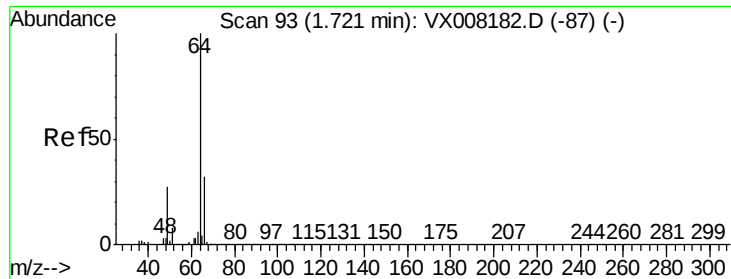
200

100

0

Time-->





#6

Chloroethane

Concen: 16.080 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.13 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

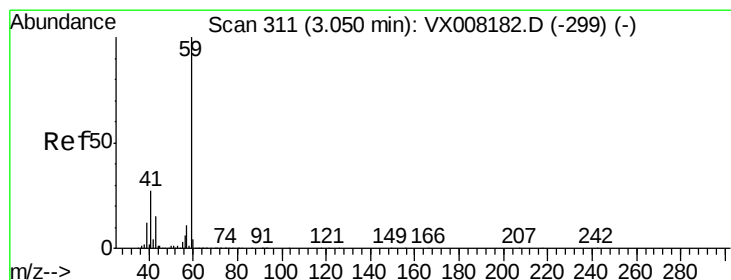
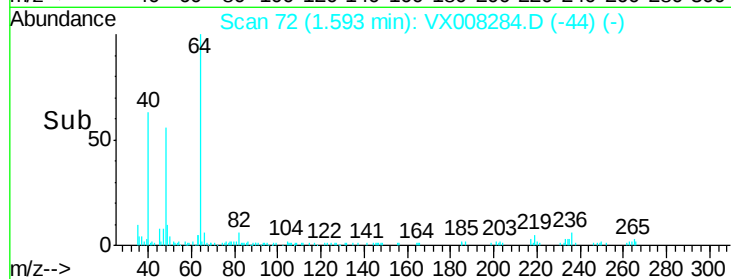
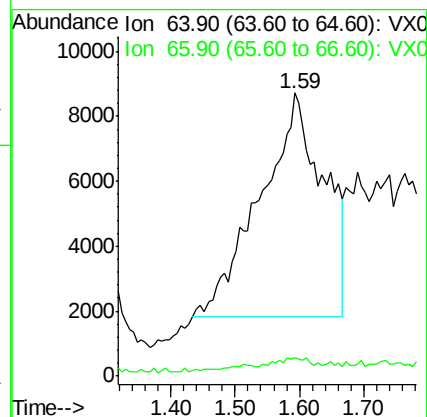
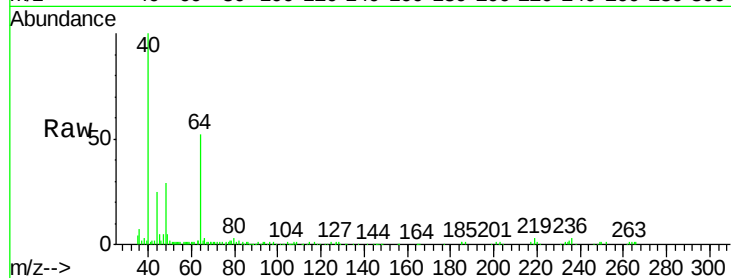
VX0321WBL01

Tot Ion: 64 Resp: 47493

Ion Ratio Lower Upper

64 100

66 5.7 25.2 37.8#



#11

Tert butyl alcohol

Concen: 0.603 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX008284.D

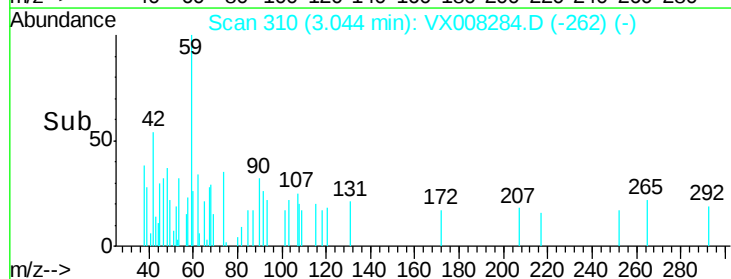
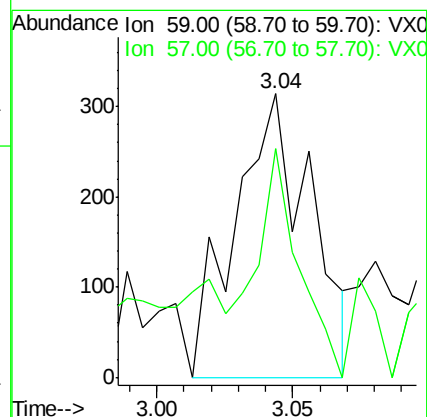
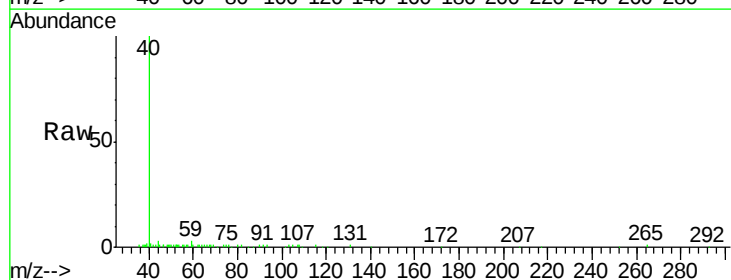
Acq: 21 Mar 2019 12:19

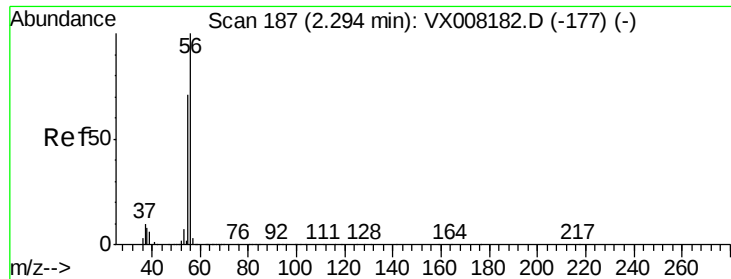
Tgt Ion: 59 Resp: 604

Ion Ratio Lower Upper

59 100

57 45.9 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampled :

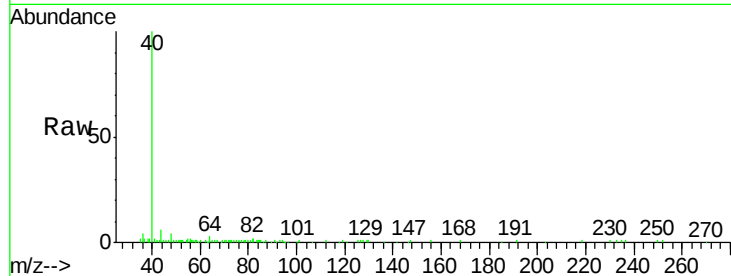
VX0321WBL01

Tot Ion: 56 Resp: 658

Ion Ratio Lower Upper

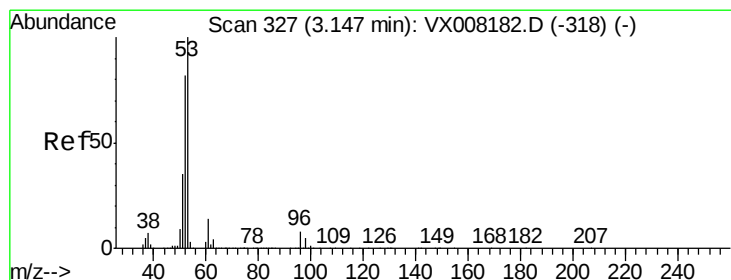
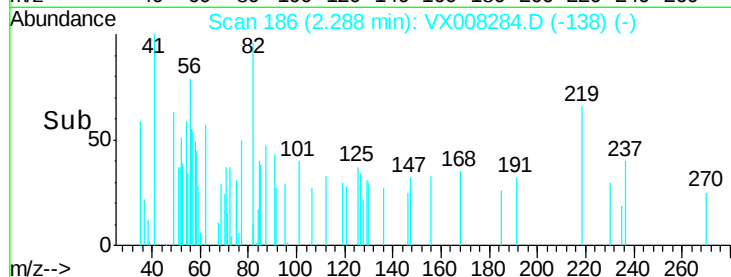
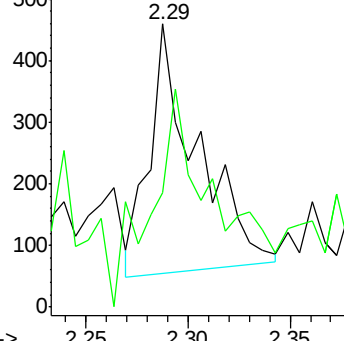
56 100

55 122.0 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.543 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

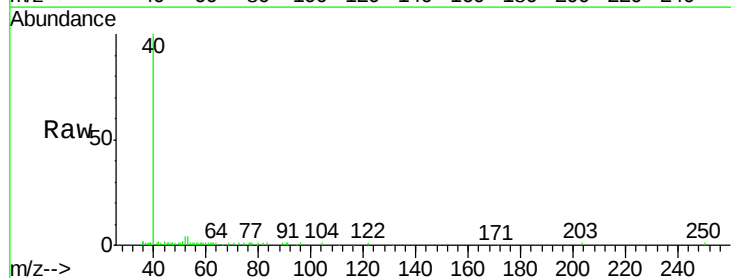
Tgt Ion: 53 Resp: 1439

Ion Ratio Lower Upper

53 100

52 78.9 66.0 99.0

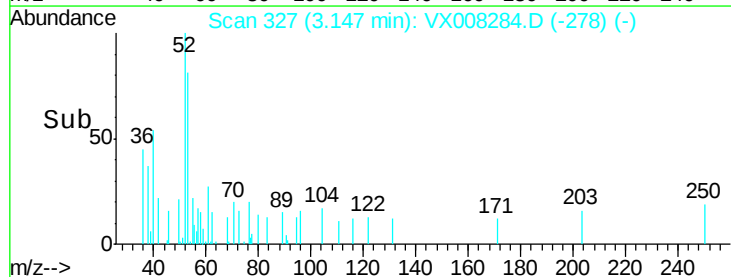
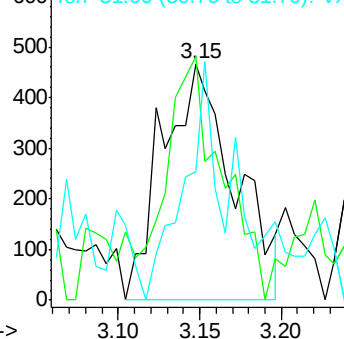
51 43.6 28.0 42.0#

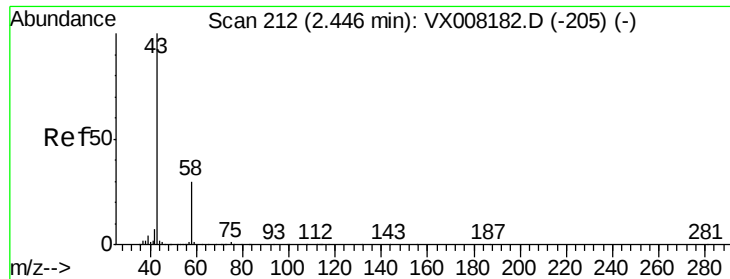


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.531 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampled :

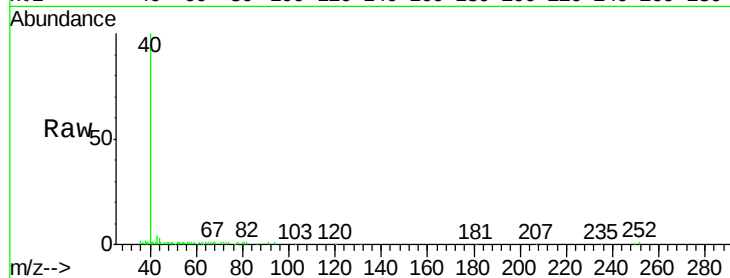
VX0321WBL01

Tot Ion: 43 Resp: 1408

Ion Ratio Lower Upper

43 100

58 12.7 25.5 38.3#



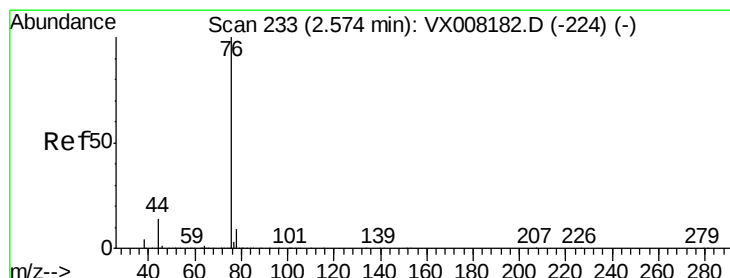
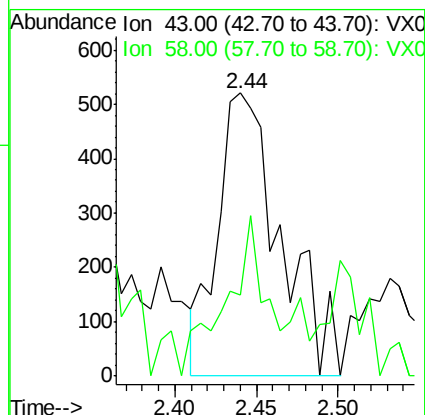
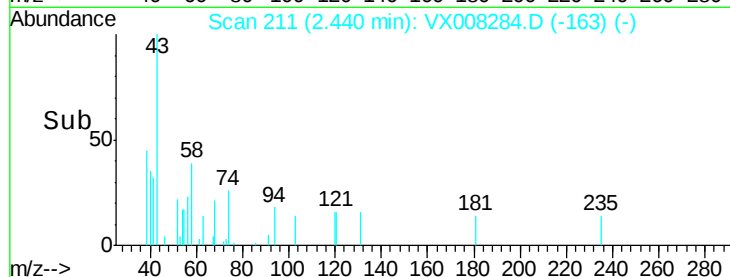
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

2.45

2.50



#17

Carbon Disulfide

Concen: 0.991 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008284.D

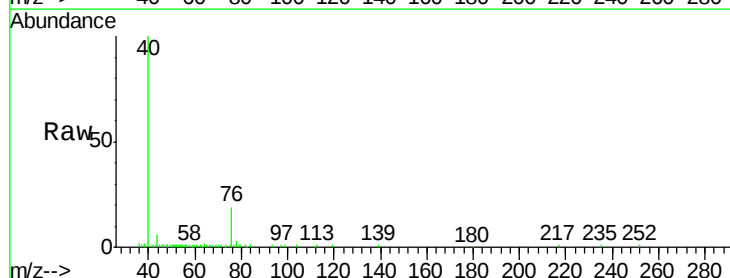
Acq: 21 Mar 2019 12:19

Tgt Ion: 76 Resp: 3938

Ion Ratio Lower Upper

76 100

78 11.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

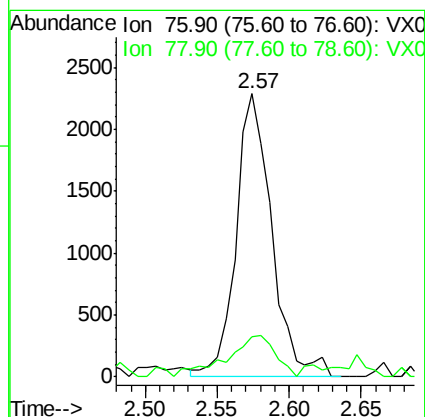
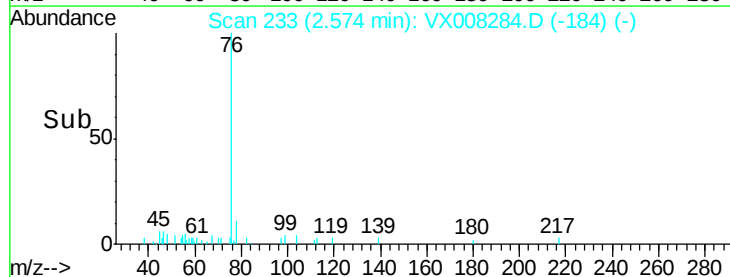
Ion 77.90 (77.60 to 78.60): VX0

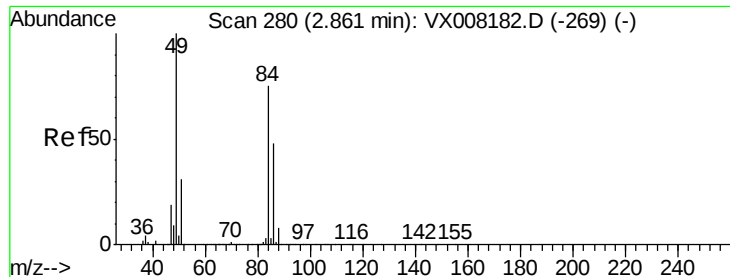
2.57

2.55

2.60

2.65

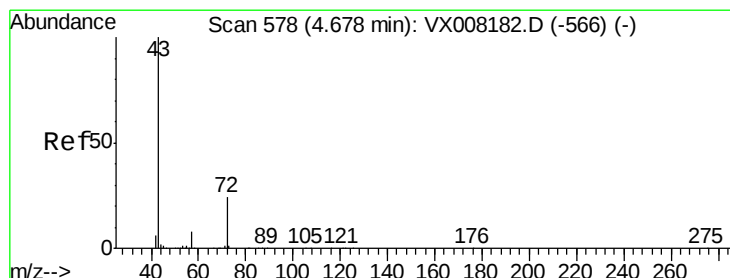
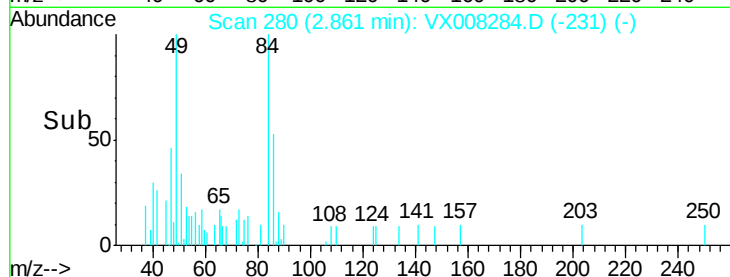
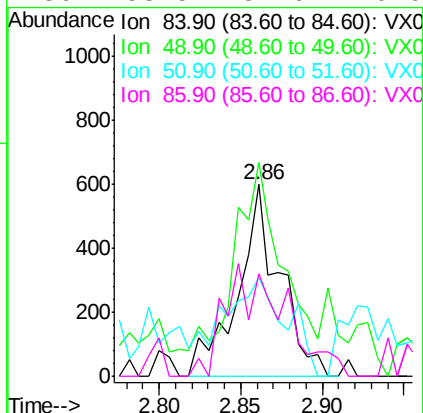
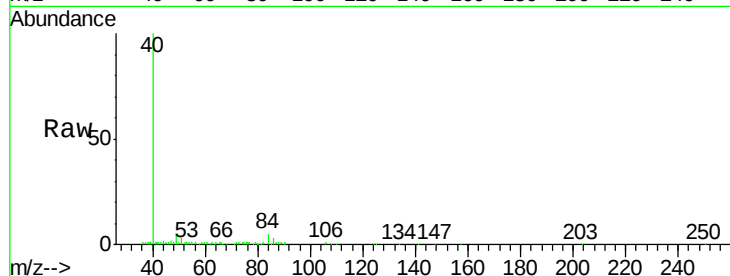




#20
Methvlene Chloride
Concen: 0.240 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008284.D
Acq: 21 Mar 2019 12:19

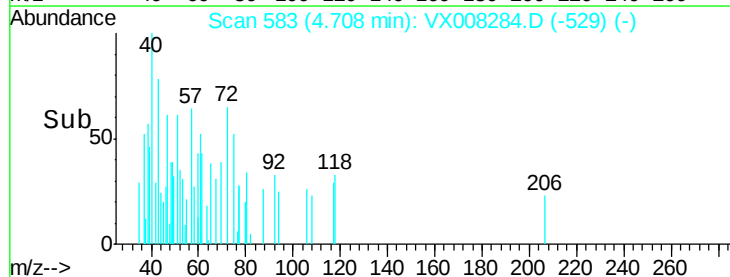
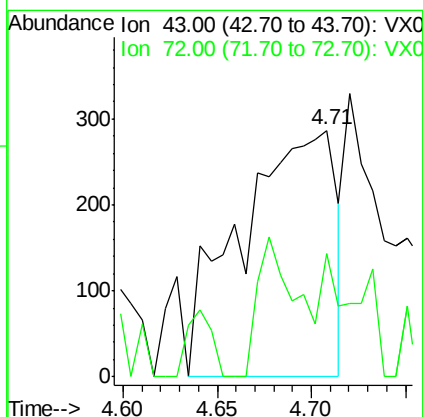
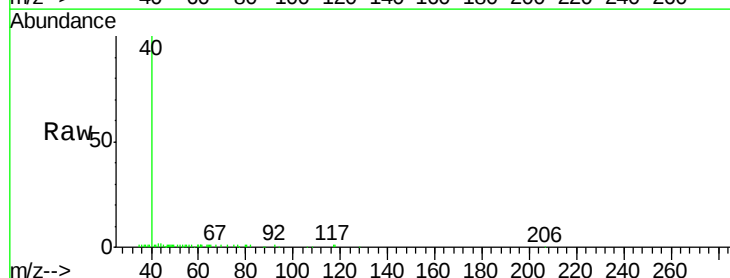
Instrument :
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ClientSampleId :
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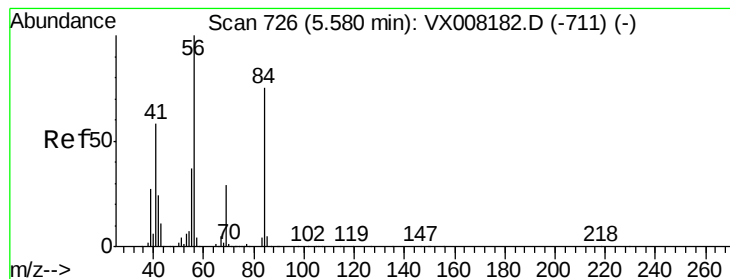
Tot Ion: 84 Resp: 1062
Ion Ratio Lower Upper
84 100
49 98.0 99.3 148.9#
51 37.0 31.3 46.9
86 53.5 52.6 79.0



#25
2-Butanone
Concen: 0.256 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.03 min
Lab File: VX008284.D
Acq: 21 Mar 2019 12:19

Tgt Ion: 43 Resp: 1003
Ion Ratio Lower Upper
43 100
72 28.9 19.9 29.9





#31

Cyclohexane

Concen: 0.854 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

VX0321WBL01

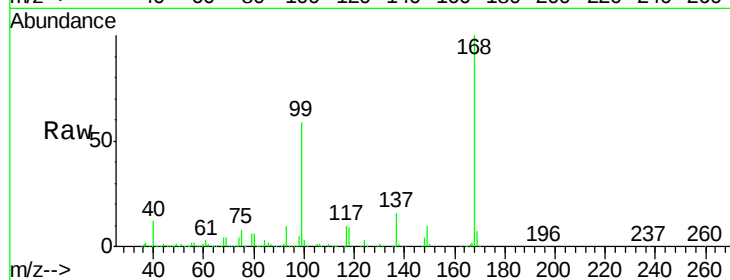
Tot Ion: 56 Resp: 6625

Ion Ratio Lower Upper

56 100

69 166.5 24.0 36.0#

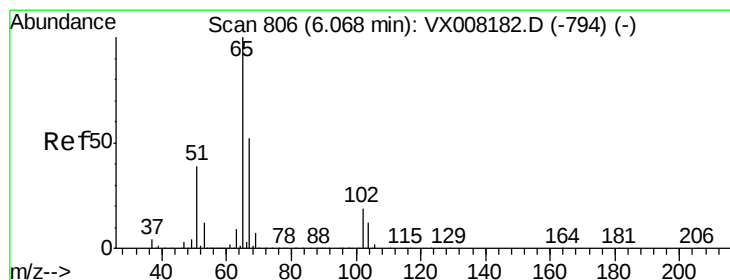
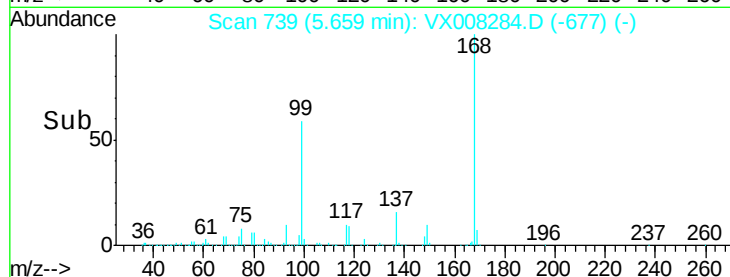
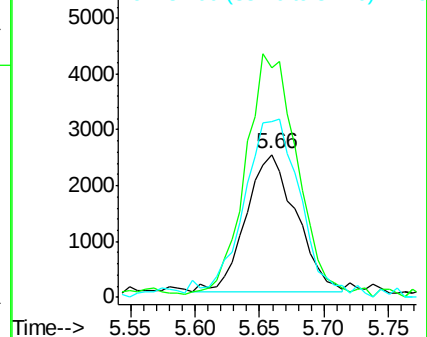
84 121.7 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.308 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX008284.D

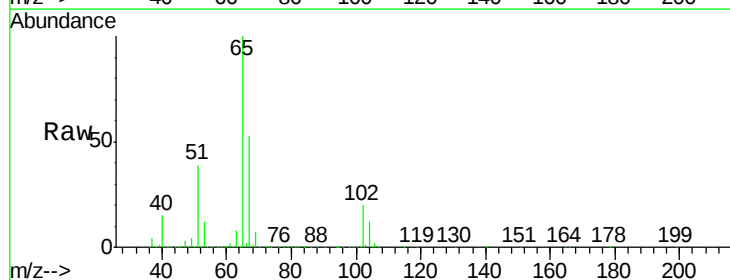
Acq: 21 Mar 2019 12:19

Tgt Ion: 65 Resp: 216599

Ion Ratio Lower Upper

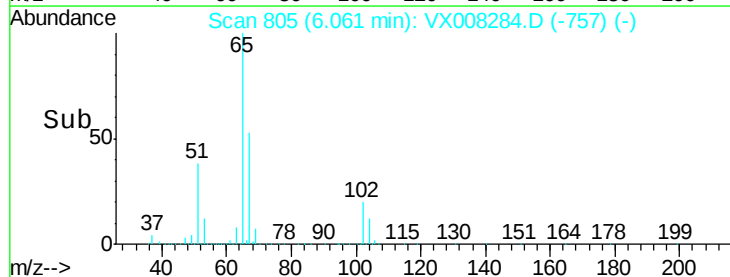
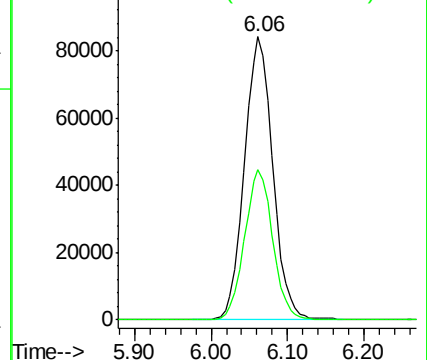
65 100

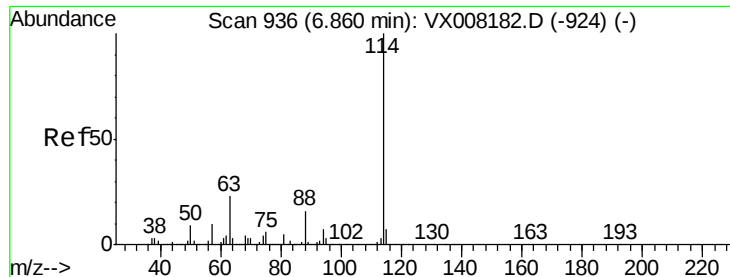
67 52.6 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

VX0321WBL01

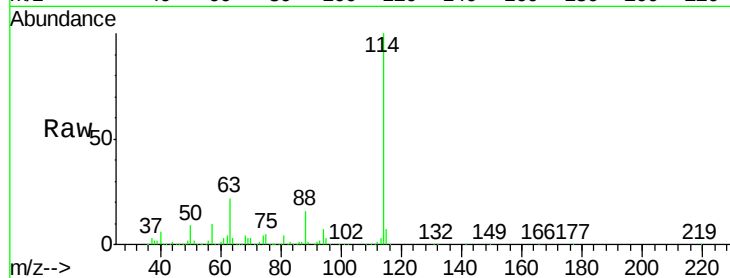
Tot Ion:114 Resp: 508187

Ion Ratio Lower Upper

114 100

63 22.2 0.0 39.8

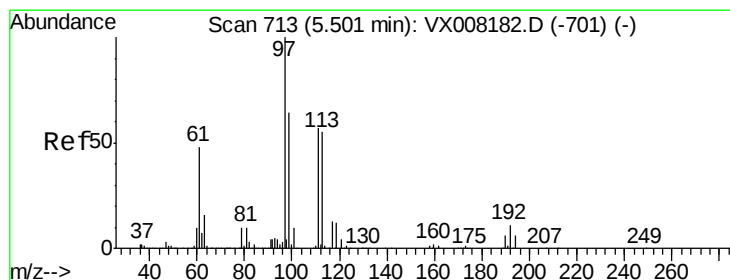
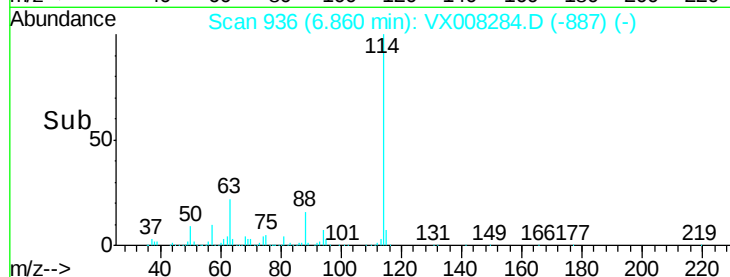
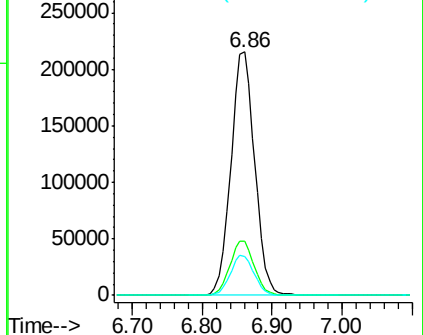
88 16.1 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.084 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

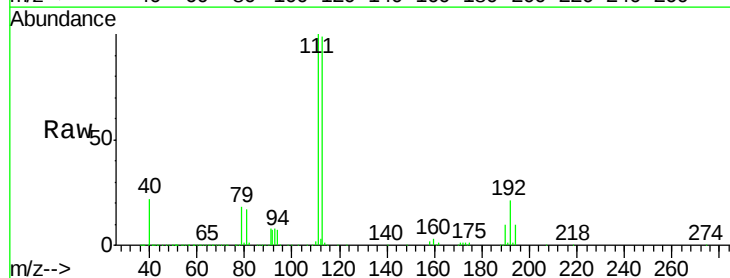
Tgt Ion:113 Resp: 163581

Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

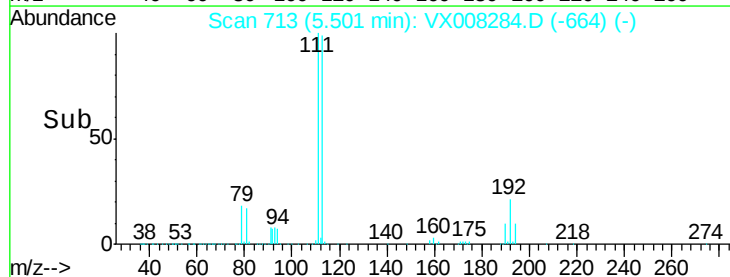
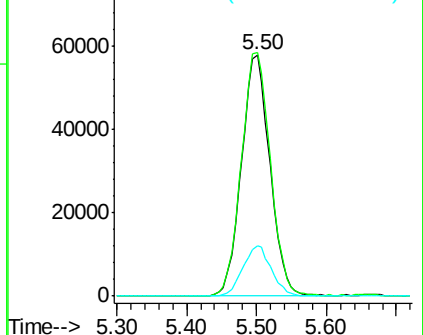
192 20.8 19.4 29.0

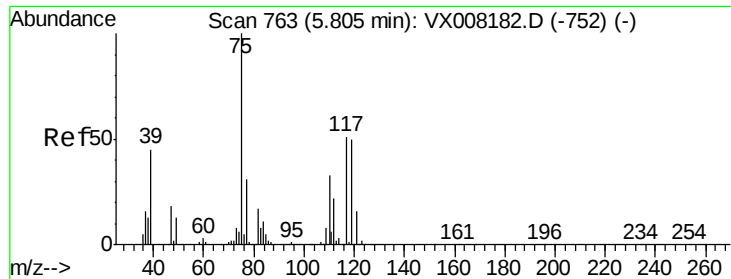


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.066 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.15 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

VX0321WBL01

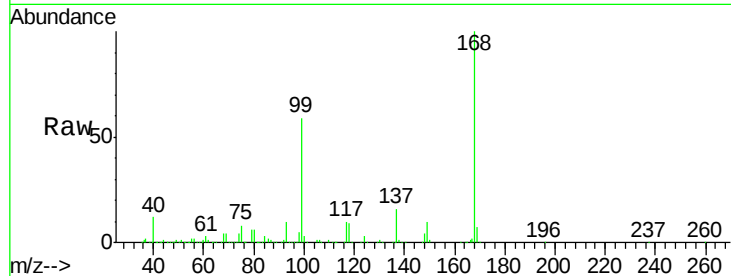
Tot Ion: 75 Resp: 24059

Ion Ratio Lower Upper

75 100

110 9.5 18.4 55.0#

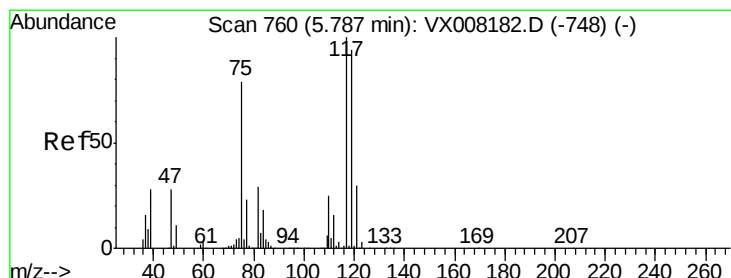
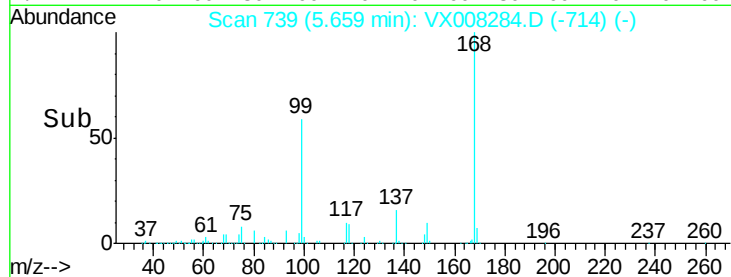
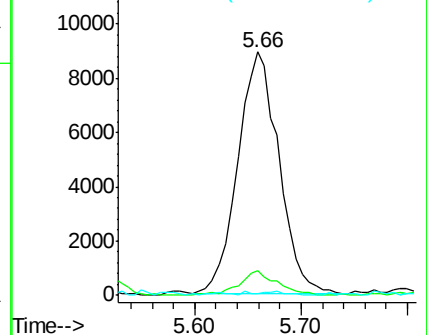
77 0.4 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.806 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

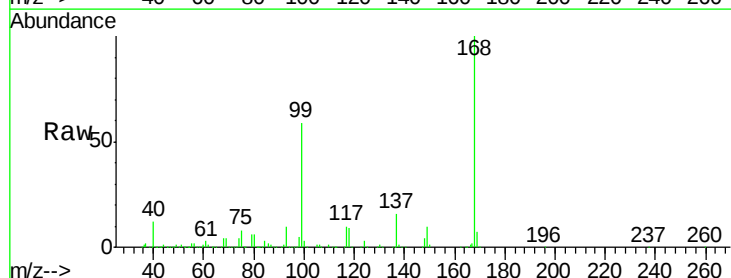
Tgt Ion: 117 Resp: 30609

Ion Ratio Lower Upper

117 100

119 4.3 76.2 114.2#

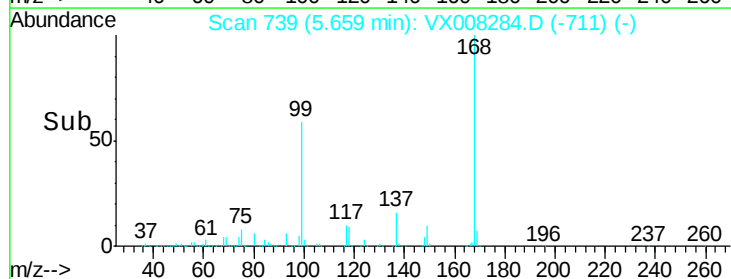
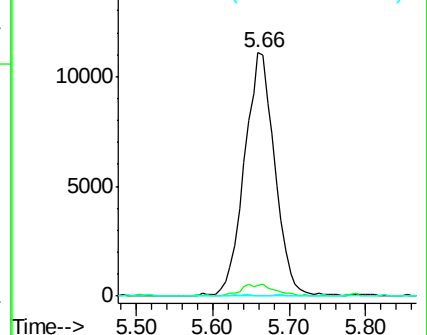
121 0.0 24.6 36.8#

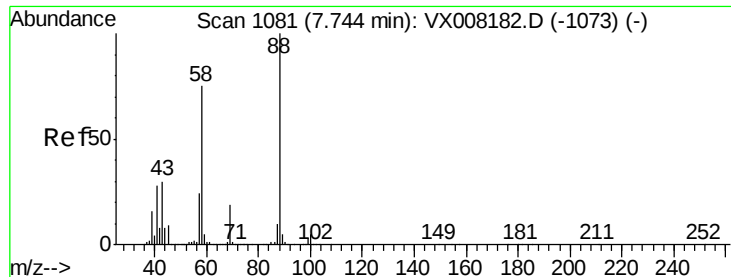


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 3.432 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

VX0321WBL01

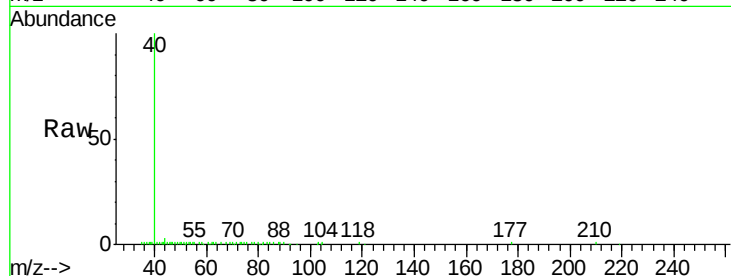
Tot Ion: 88 Resp: 361

Ion Ratio Lower Upper

88 100

43 111.9 25.1 37.7#

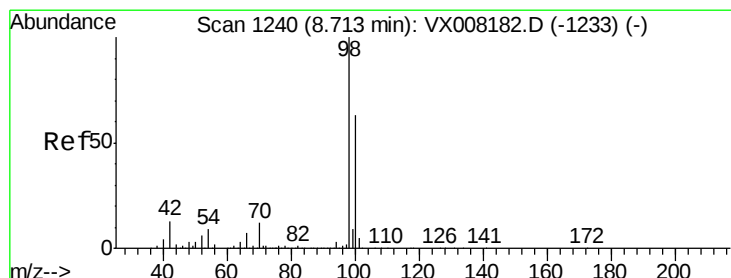
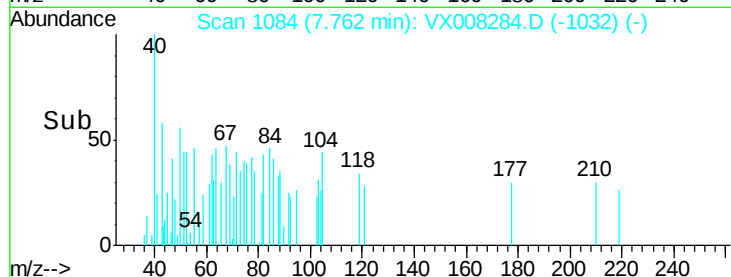
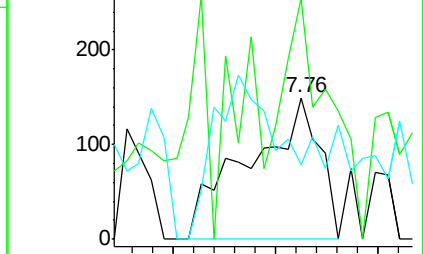
58 0.0 57.8 86.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 47.741 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008284.D

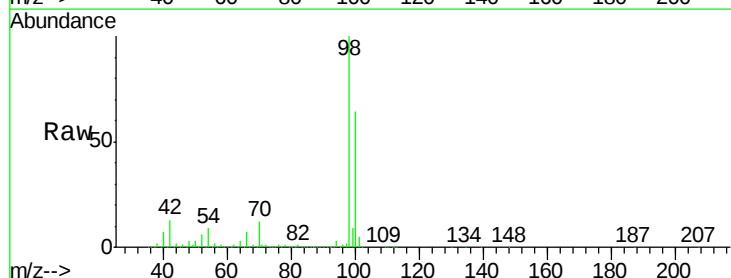
Acq: 21 Mar 2019 12:19

Tgt Ion: 98 Resp: 615767

Ion Ratio Lower Upper

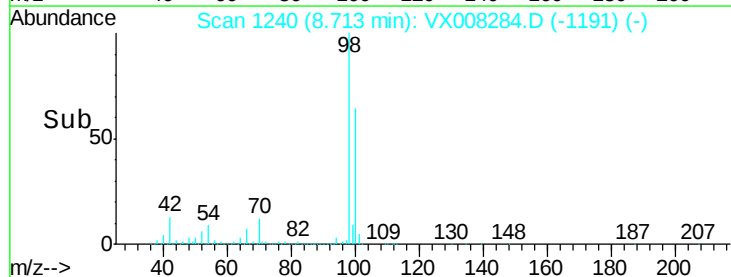
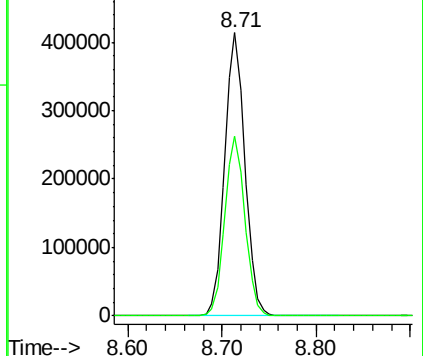
98 100

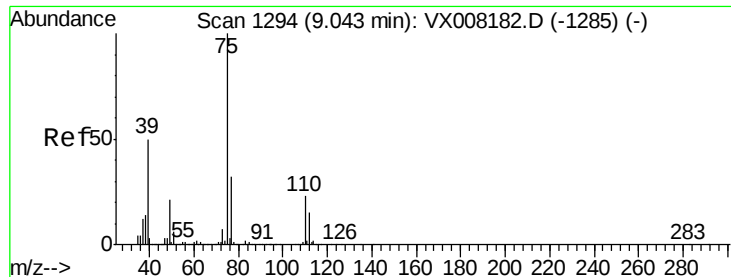
100 63.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

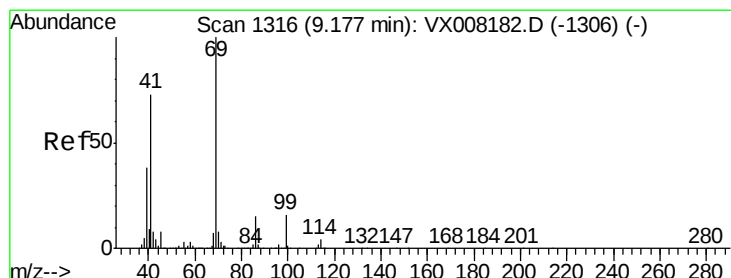
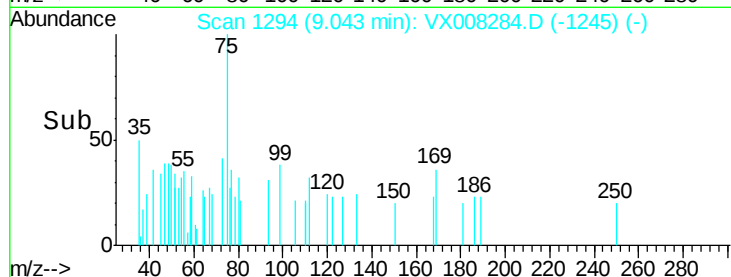
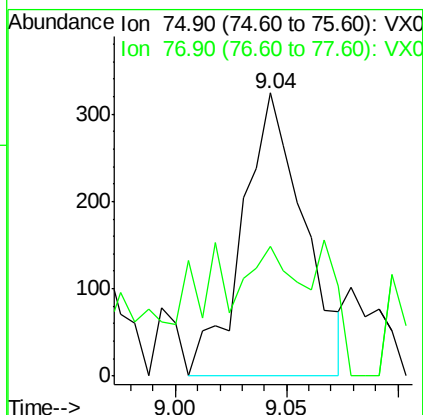
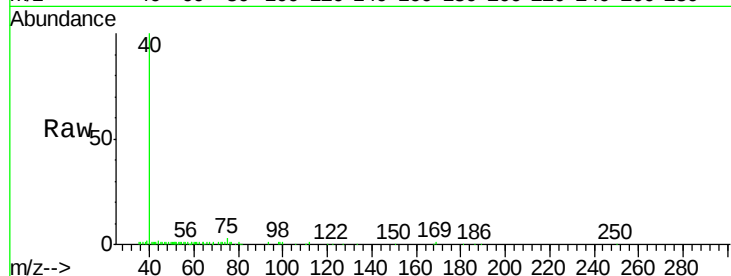




#53
t-1,3-Dichloropropene
Concen: 1.507 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. 0.00 min
Lab File: VX008284.D
Acq: 21 Mar 2019 12:19

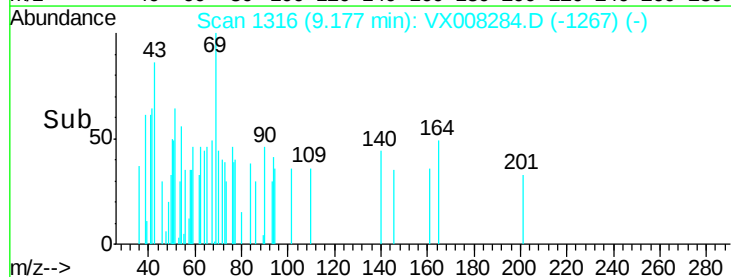
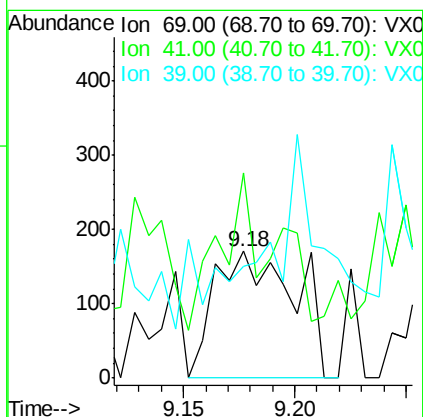
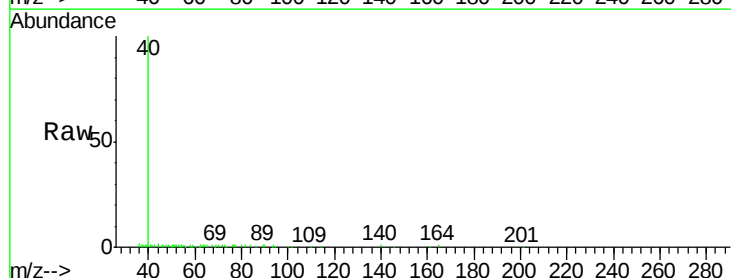
Instrument :
MSVOA_X
ClientSampleId :
VX0321WBL01

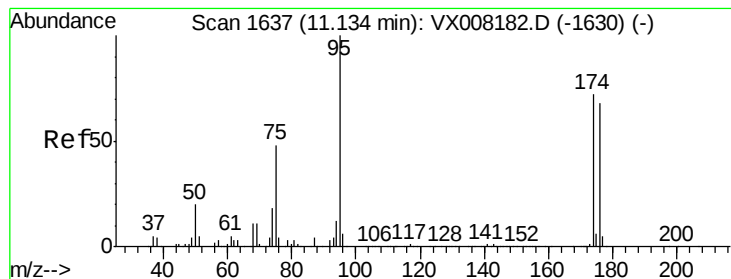
Tot Ion: 75 Resp: 621
Ion Ratio Lower Upper
75 100
77 14.2 25.4 38.0#



#56
Ethyl methacrylate
Concen: 0.583 ug/l
RT: 9.18 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VX008284.D
Acq: 21 Mar 2019 12:19

Tgt Ion: 69 Resp: 428
Ion Ratio Lower Upper
69 100
41 58.9 54.2 81.4
39 0.0 25.0 37.4#





#62

4-Bromofluorobenzene

Concen: 43.588 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

VX0321WBL01

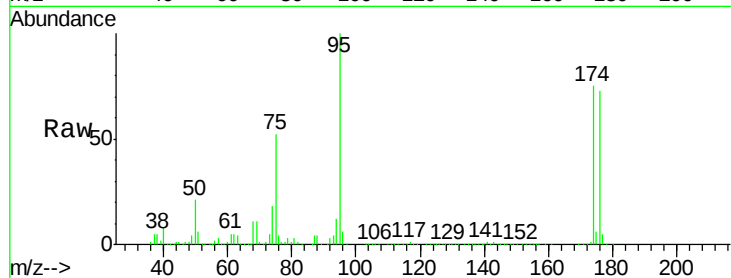
Tot Ion: 95 Resp: 193578

Ion Ratio Lower Upper

95 100

174 79.4 0.0 182.8

176 77.2 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX008284.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008284.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008284.D (-1630) (-)

11.13

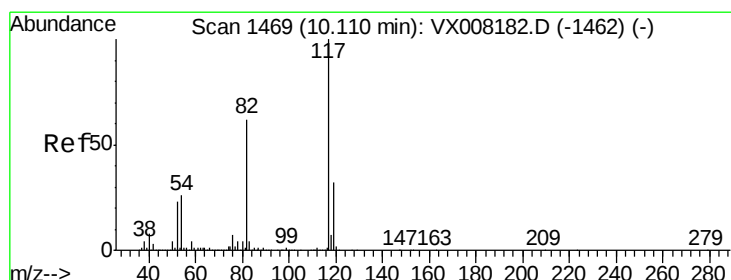
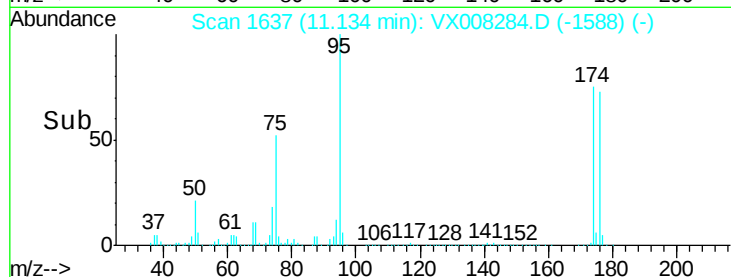
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

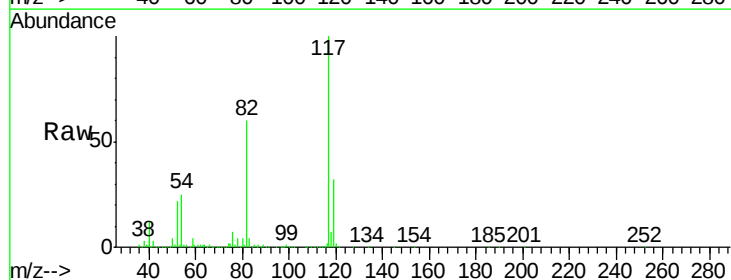
Tgt Ion: 117 Resp: 419608

Ion Ratio Lower Upper

117 100

82 59.8 44.3 66.5

119 32.0 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VX008284.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008284.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008284.D (-1462) (-)

10.11

400000

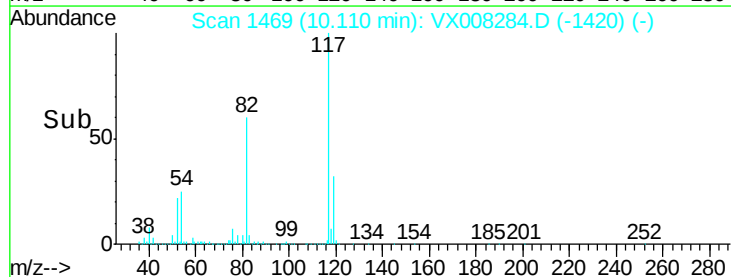
300000

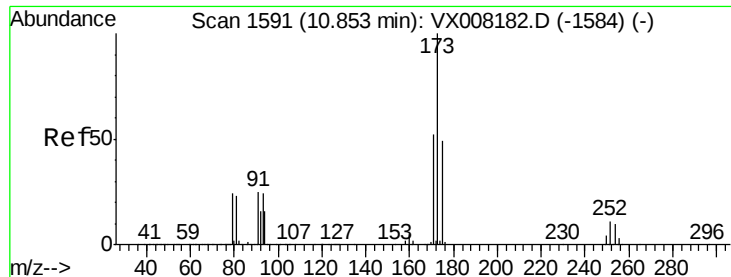
200000

100000

0

Time-->





#71

Bromoform

Concen: 2.263 ug/l

RT: 10.87 min Scan# 1593

Delta R.T. 0.01 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

VX0321WBL01

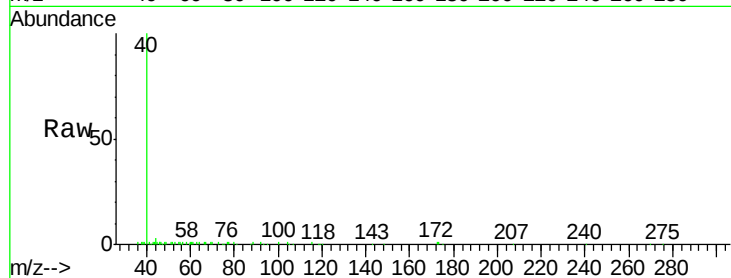
Tot Ion:173 Resp: 197

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

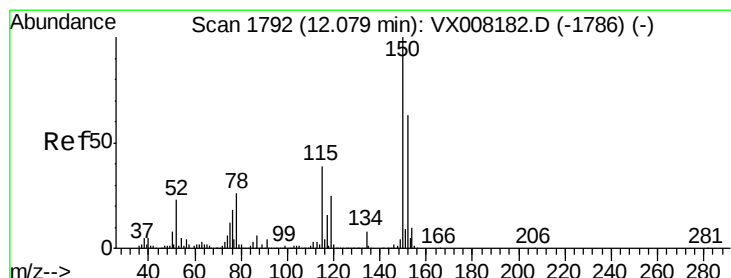
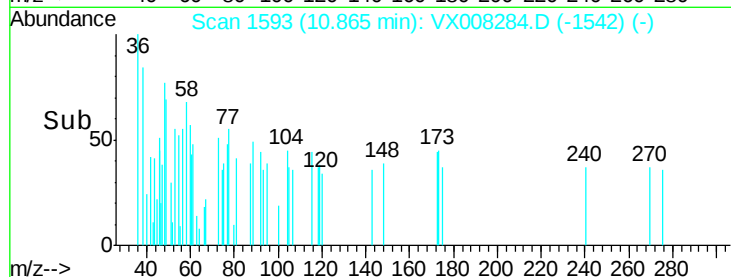
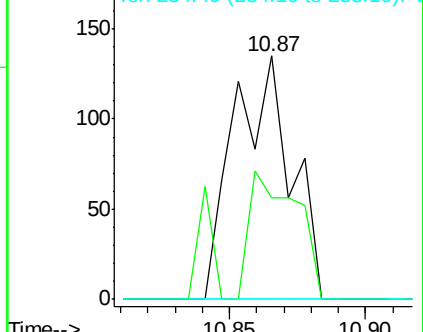
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

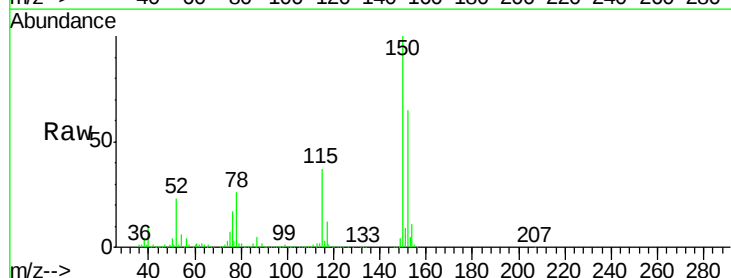
Tgt Ion:152 Resp: 169639

Ion Ratio Lower Upper

152 100

115 59.7 38.6 115.7

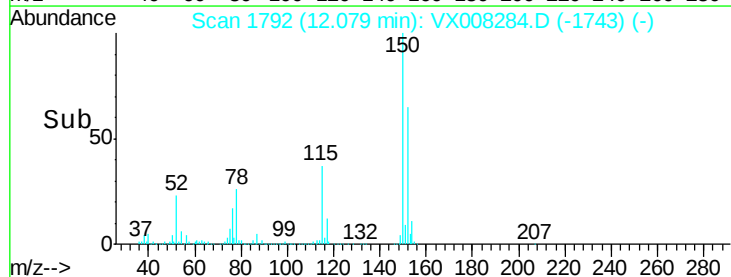
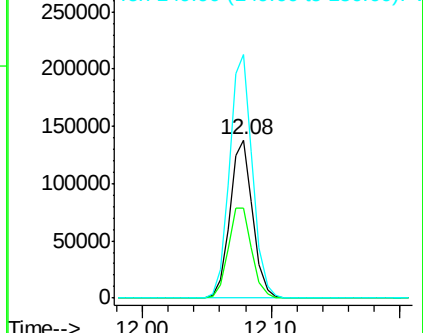
150 155.8 0.0 348.4

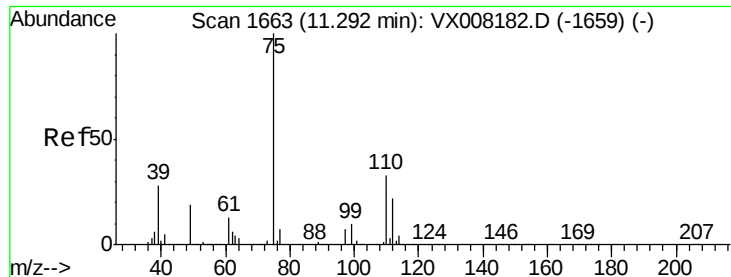


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.098 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

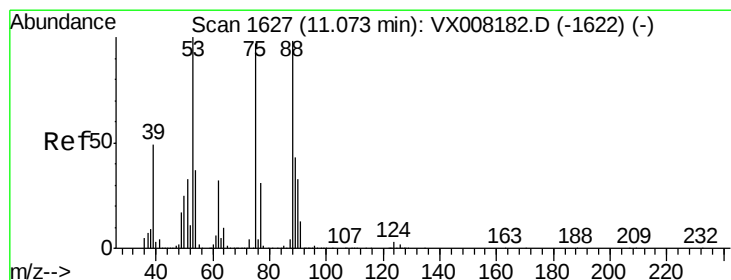
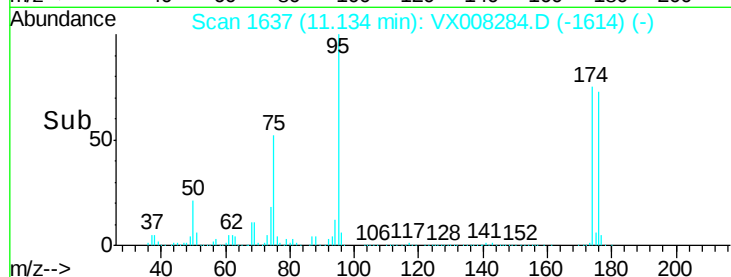
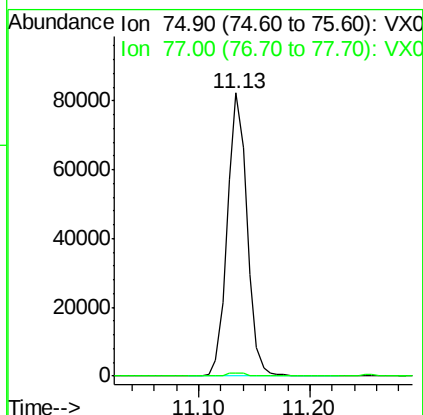
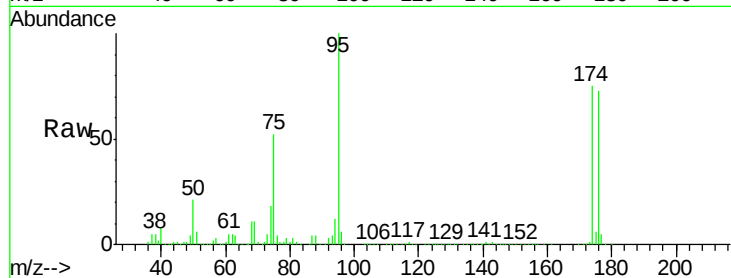
VX0321WBL01

Tot Ion: 75 Resp: 100666

Ion Ratio Lower Upper

75 100

77 1.3 18.9 56.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.677 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

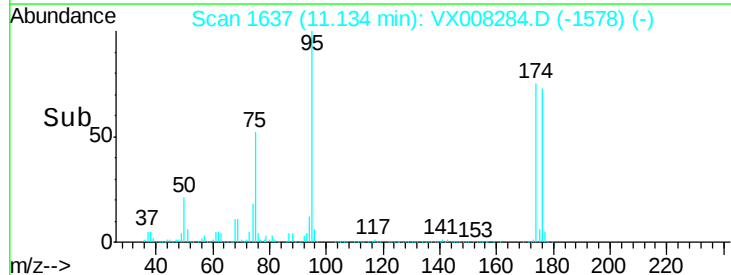
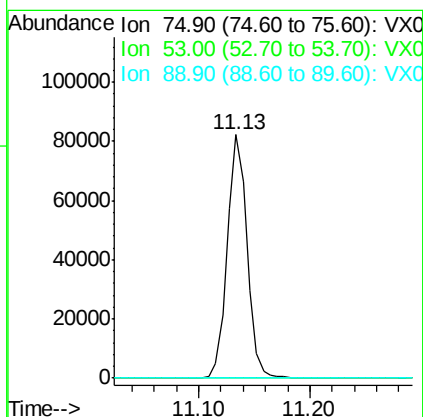
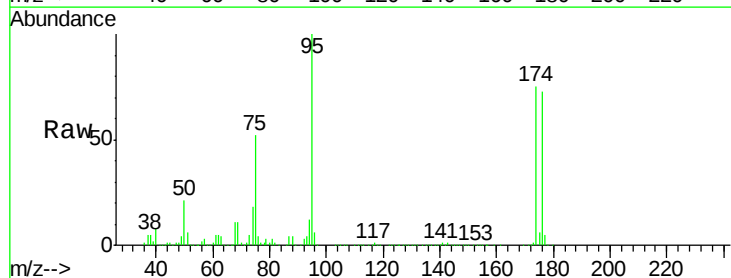
Tgt Ion: 75 Resp: 100666

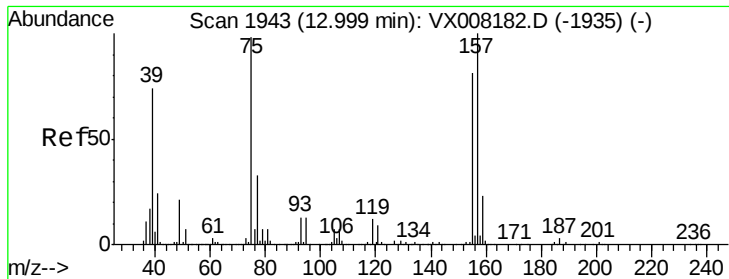
Ion Ratio Lower Upper

75 100

53 0.2 76.1 114.1#

89 0.1 36.3 54.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.270 ug/l

RT: 13.01 min Scan# 1945

Delta R.T. 0.01 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampled :

VX0321WBL01

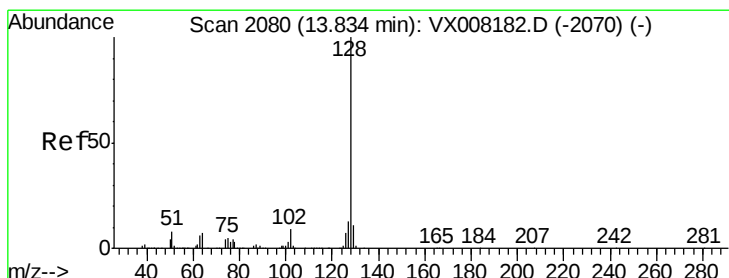
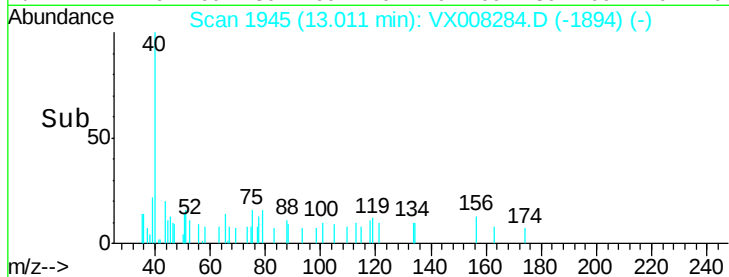
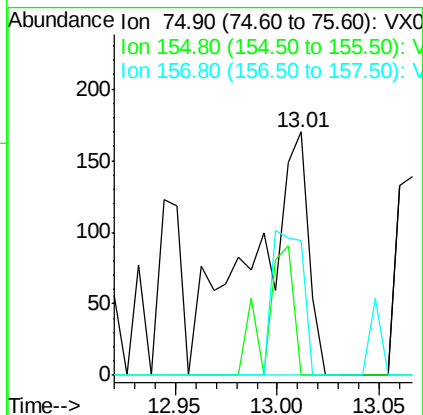
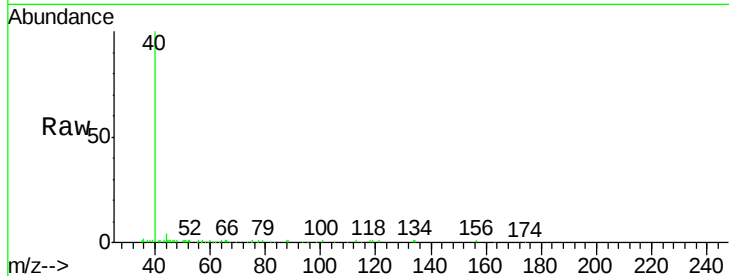
Tot Ion: 75 Resp: 325

Ion Ratio Lower Upper

75 100

155 25.5 49.7 149.1#

157 32.6 63.8 191.4#



#95

Naphthalene

Concen: 0.218 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

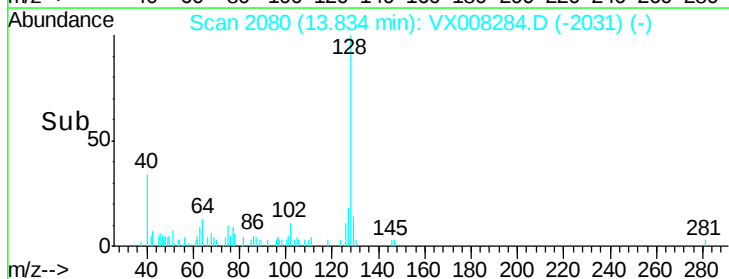
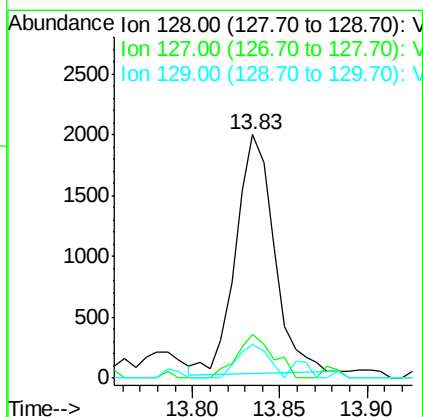
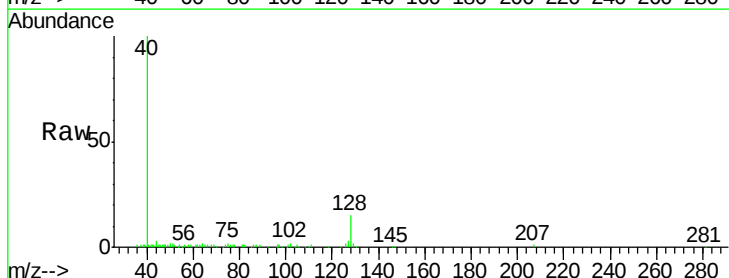
Tgt Ion: 128 Resp: 2985

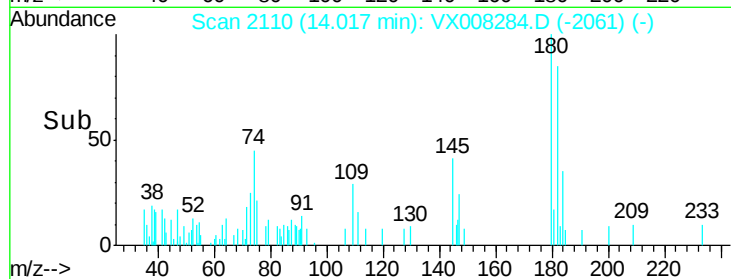
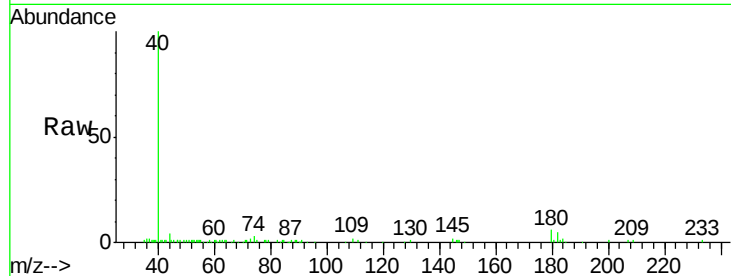
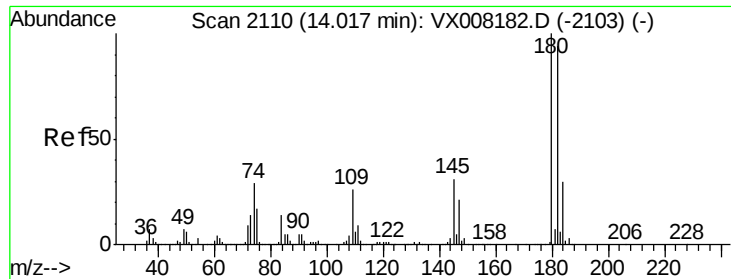
Ion Ratio Lower Upper

128 100

127 17.5 10.3 15.5#

129 11.4 8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 0.260 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX008284.D

Acq: 21 Mar 2019 12:19

Instrument :

MSVOA_X

ClientSampleId :

VX0321WBL01

Tot Ion:180 Resp: 1110

Ion Ratio Lower Upper

180 100

182 88.2 47.5 142.5

145 33.5 14.8 44.3

