

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100118\
 Data File : VX004868.D
 Acq On : 01 Oct 2018 14:07
 Operator : JC/MD
 Sample : J5135-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW502-4953

Quant Time: Oct 02 02:39:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

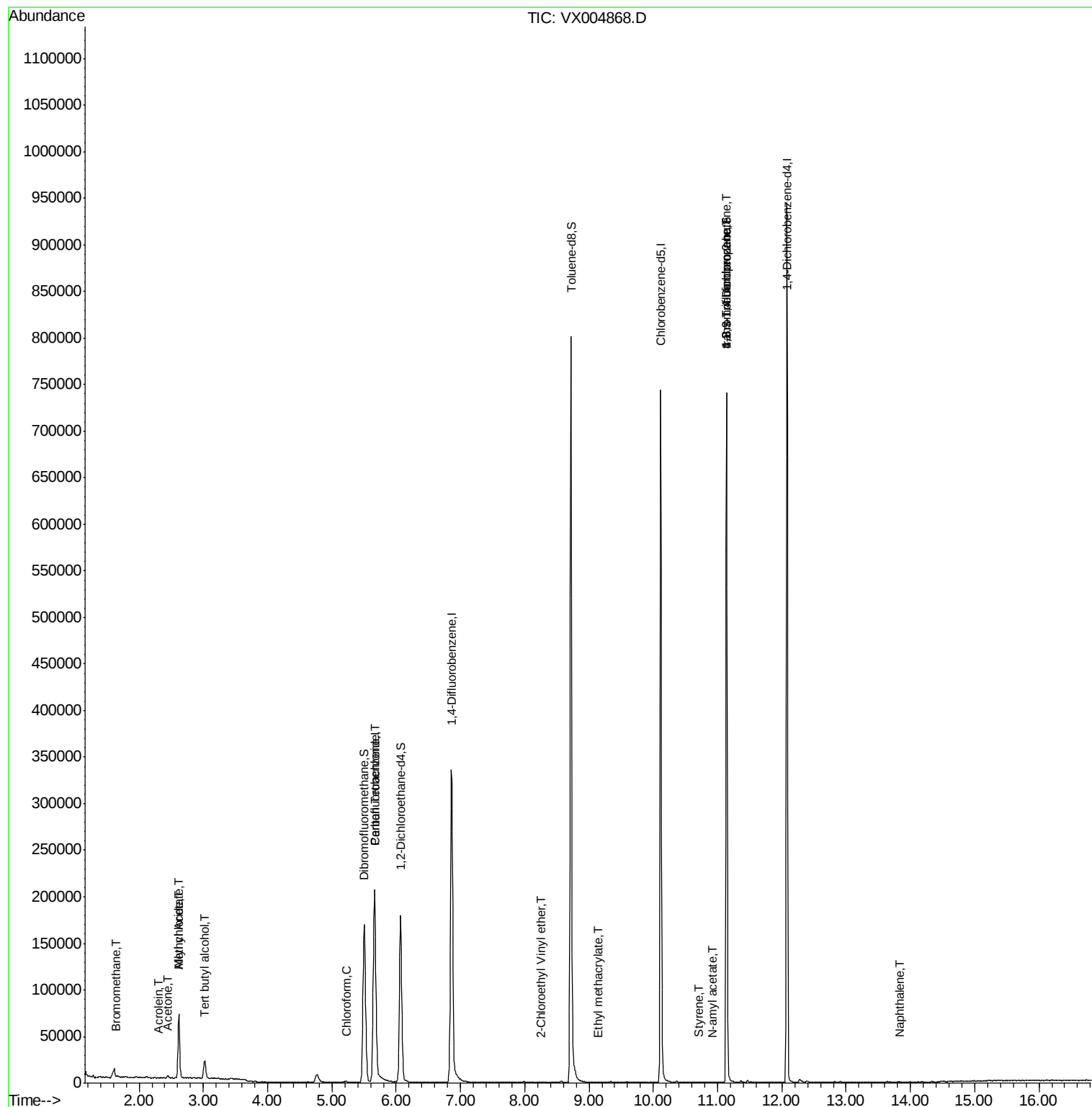
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	218542	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	355969	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	349073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190157	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	170795	54.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.42%	
35) Dibromofluoromethane	5.50	113	144654	47.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.90%	
50) Toluene-d8	8.72	98	519831	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
62) 4-Bromofluorobenzene	11.14	95	184446	51.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.10%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	423	0.210	ug/l	97
6) Chloroethane	1.73	64	264	Below Cal	#	82
11) Tert butyl alcohol	3.03	59	12594	14.428	ug/l #	75
13) Acrolein	2.30	56	199	0.320	ug/l #	68
14) Allyl chloride	2.62	41	6919	1.339	ug/l #	65
16) Acetone	2.45	43	3258	1.788	ug/l	99
18) Methyl Acetate	2.62	43	17257	3.737	ug/l #	51
20) Methylene Chloride	2.86	84	276	Below Cal	#	61
30) Chloroform	5.21	83	1111	0.227	ug/l #	79
38) Carbon Tetrachloride	5.67	117	19825	4.582	ug/l #	16
56) Ethyl methacrylate	9.15	69	42	2.870	ug/l #	26
58) 2-Chloroethyl Vinyl ether	8.25	63	21	14.250	ug/l #	45
70) Styrene	10.71	104	114	2.152	ug/l #	41
74) N-amyl acetate	10.93	43	54	1.756	ug/l #	40
76) 1,2,3-Trichloropropane	11.14	75	90692	21.279	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	177	Below Cal		88
81) trans-1,4-Dichloro-2-buten	11.14	75	90692	57.716	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	340	Below Cal	#	54
95) Naphthalene	13.83	128	433	0.746	ug/l #	84

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

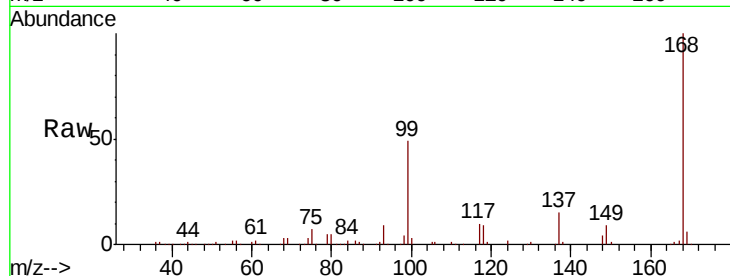
SA-TW502-4953

Tot Ion:168 Resp: 218542

Ion Ratio Lower Upper

168 100

99 48.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

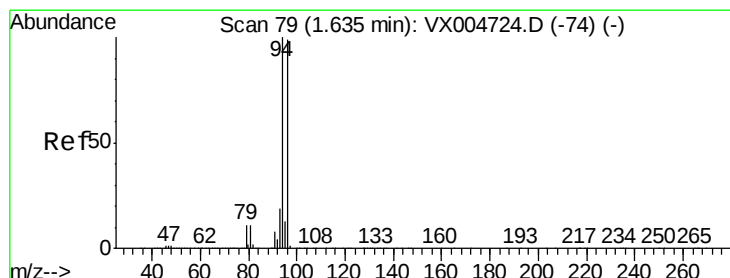
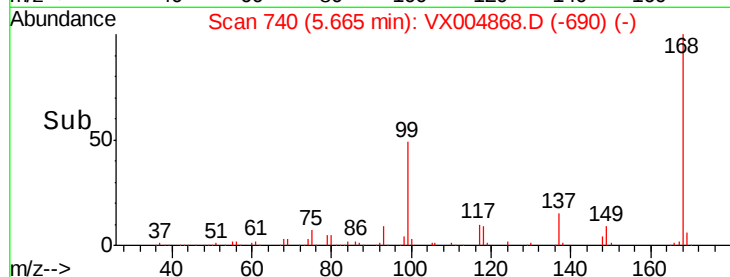
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.210 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004868.D

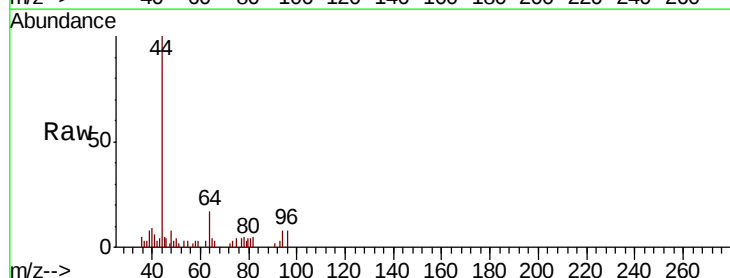
Acq: 01 Oct 2018 14:07

Tgt Ion: 94 Resp: 423

Ion Ratio Lower Upper

94 100

96 95.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

150

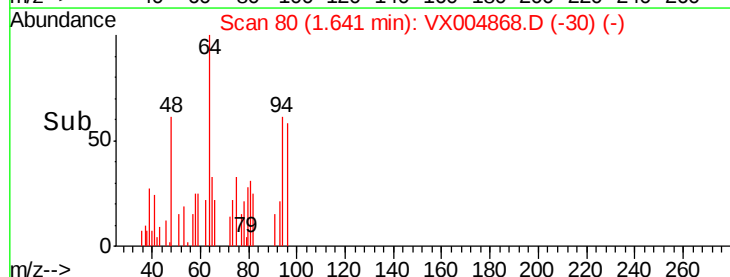
100

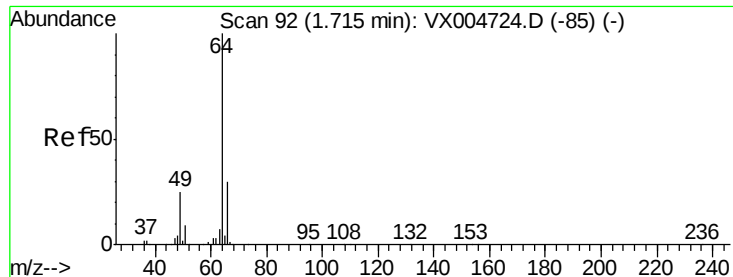
50

0

Time-->

1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

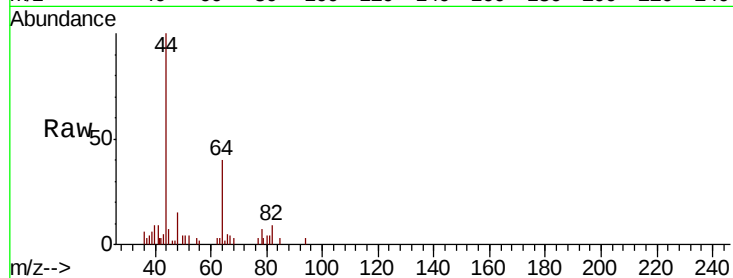
SA-TW502-4953

Tot Ion: 64 Resp: 264

Ion Ratio Lower Upper

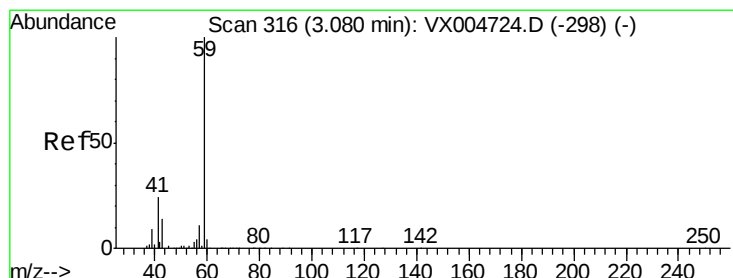
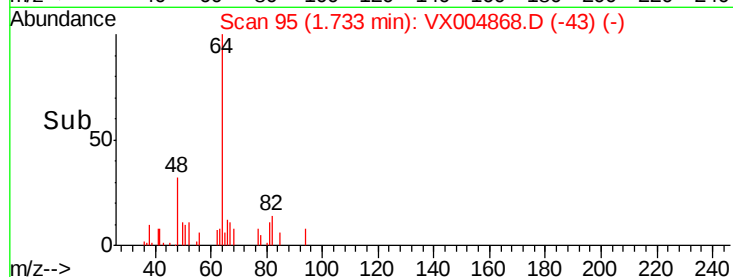
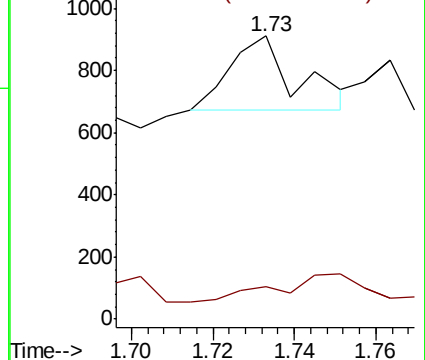
64 100

66 20.7 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 14.428 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX004868.D

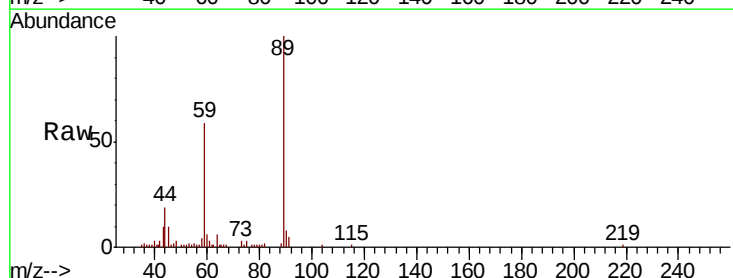
Acq: 01 Oct 2018 14:07

Tgt Ion: 59 Resp: 12594

Ion Ratio Lower Upper

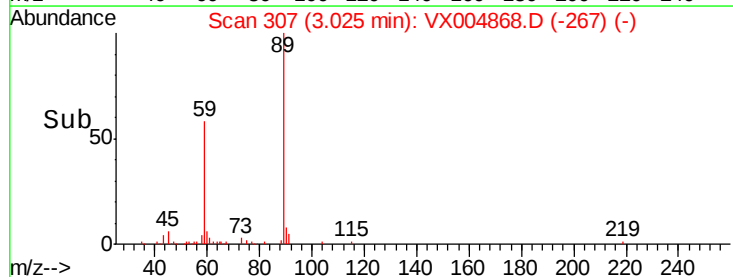
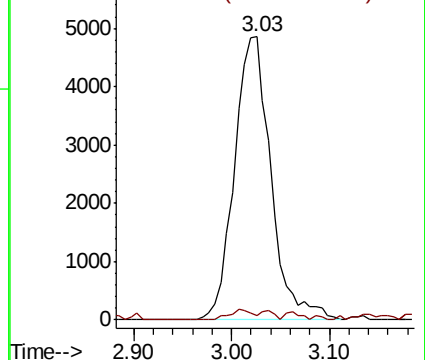
59 100

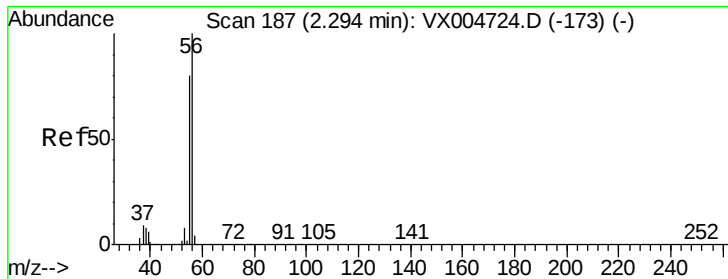
57 1.1 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.320 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

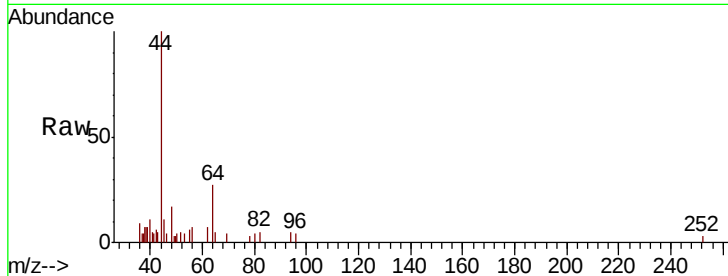
SA-TW502-4953

Tot Ion: 56 Resp: 199

Ion Ratio Lower Upper

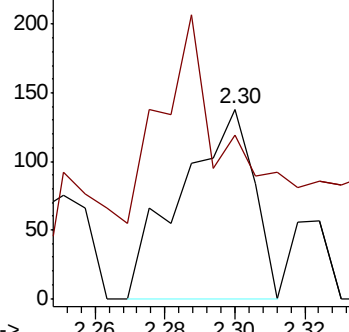
56 100

55 94.5 54.7 82.1#

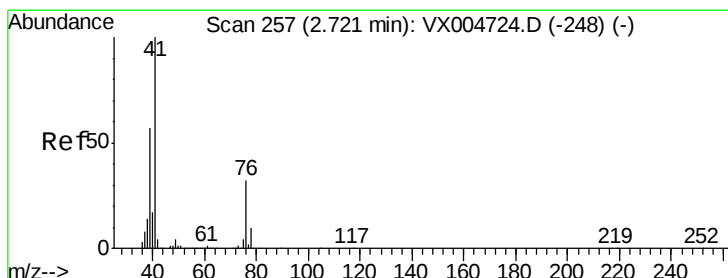
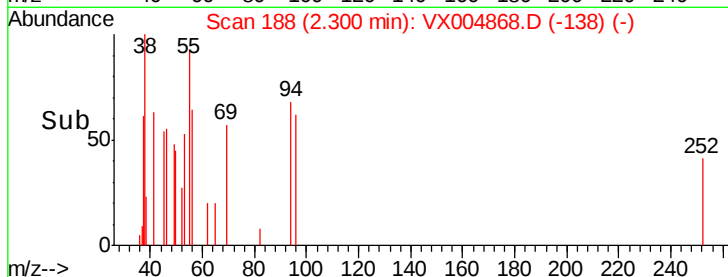


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#14

Allyl chloride

Concen: 1.339 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.10 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

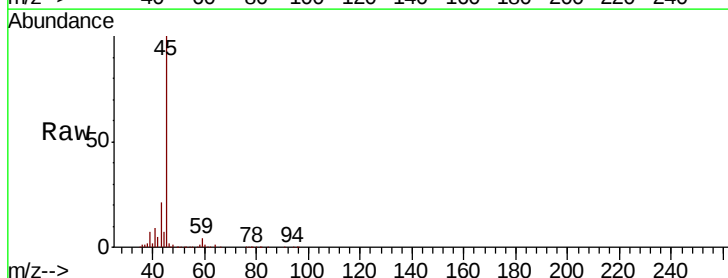
Tgt Ion: 41 Resp: 6919

Ion Ratio Lower Upper

41 100

39 77.9 48.9 73.3#

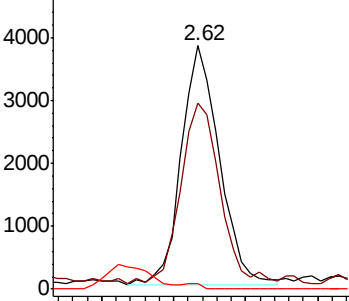
76 0.0 26.7 40.1#



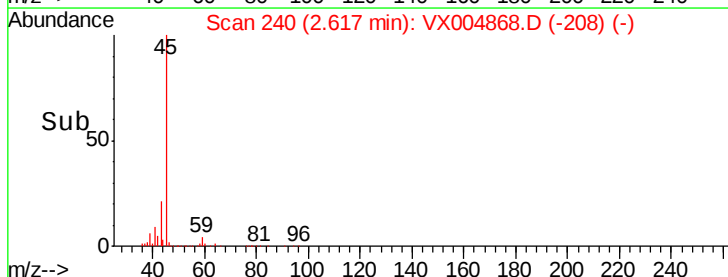
Abundance Ion 41.00 (40.70 to 41.70): VX0

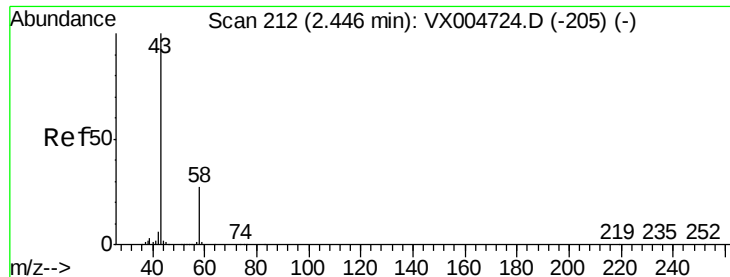
Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



Time-->





#16

Acetone

Concen: 1.788 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

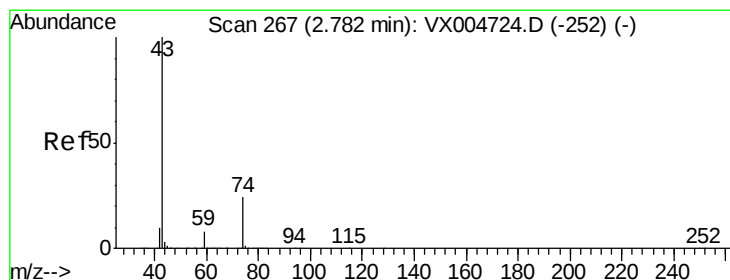
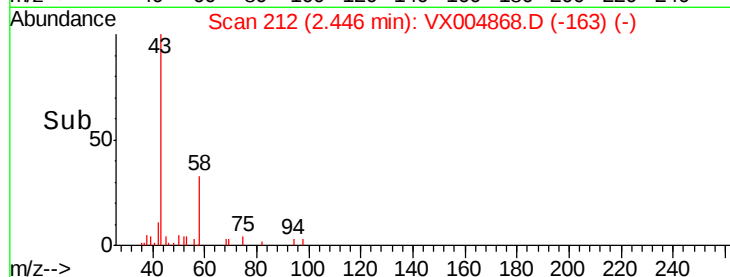
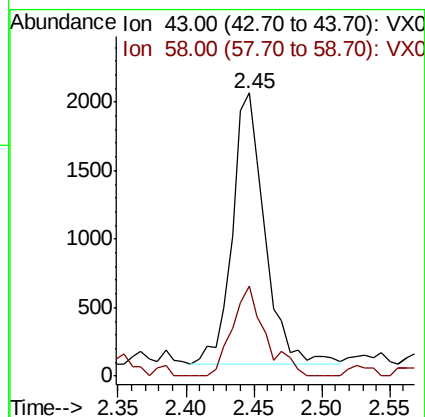
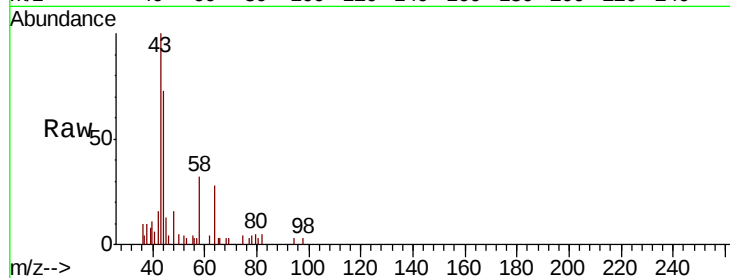
SA-TW502-4953

Tot Ion: 43 Resp: 3258

Ion Ratio Lower Upper

43 100

58 33.1 26.2 39.4



#18

Methyl Acetate

Concen: 3.737 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.16 min

Lab File: VX004868.D

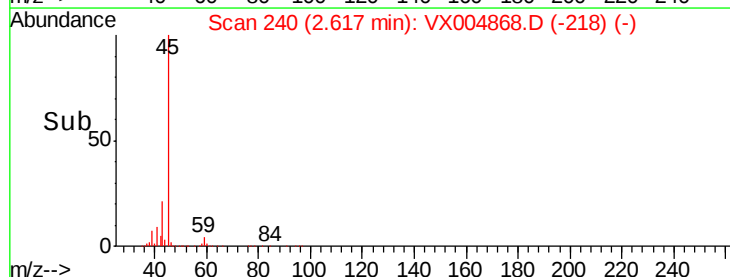
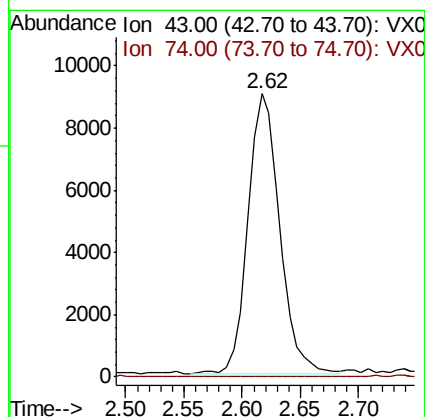
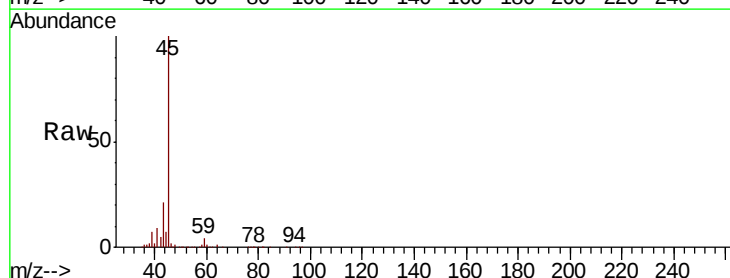
Acq: 01 Oct 2018 14:07

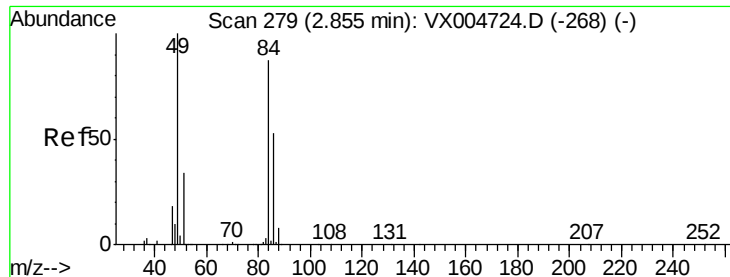
Tgt Ion: 43 Resp: 17257

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.2#

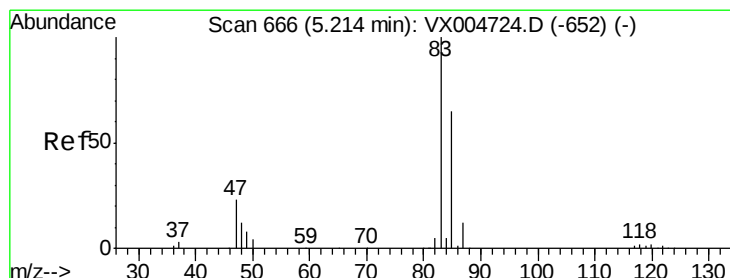
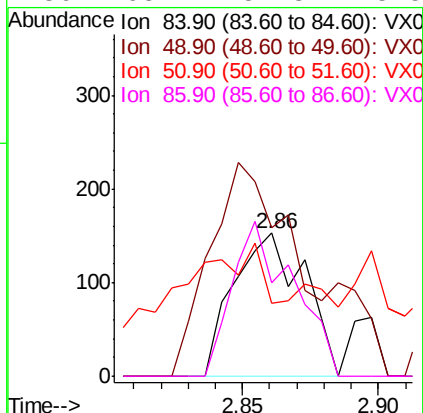
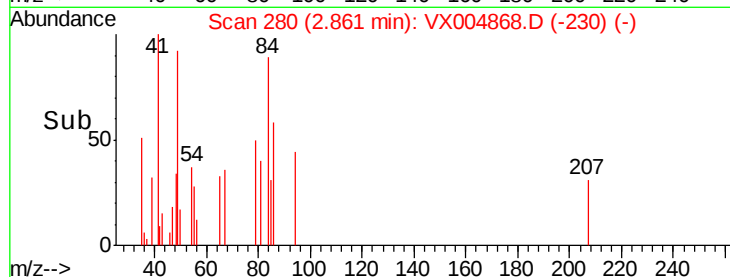
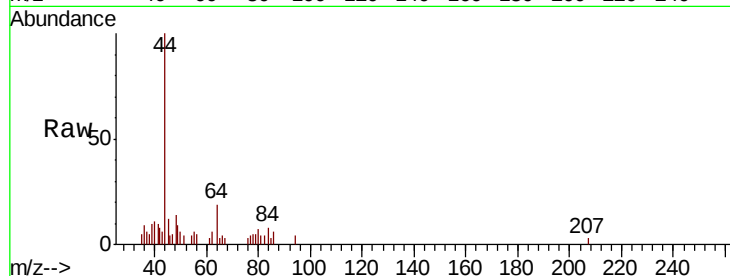




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004868.D
Acq: 01 Oct 2018 14:07

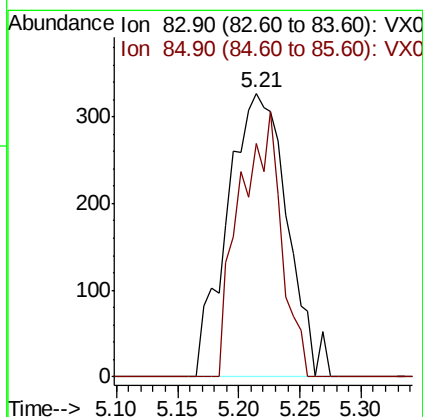
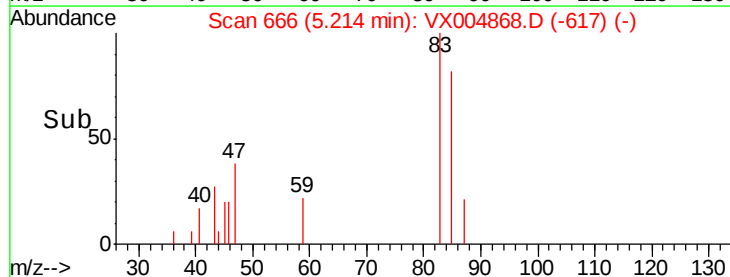
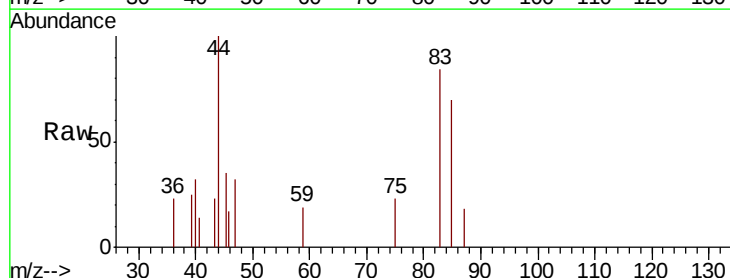
Instrument :
MSVOA_X
ClientSampleId :
SA-TW502-4953

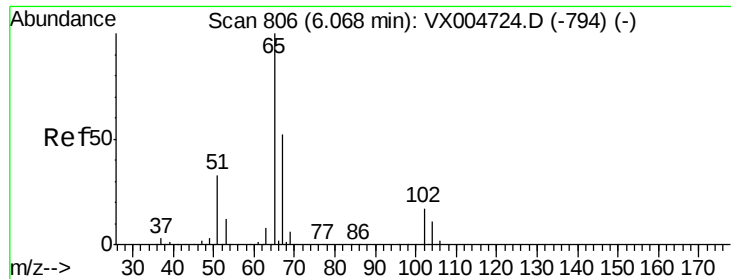
Tot Ion: 84 Resp: 276
Ion Ratio Lower Upper
84 100
49 65.4 101.2 151.8#
51 2.6 29.5 44.3#
86 65.4 52.3 78.5



#30
Chloroform
Concen: 0.227 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX004868.D
Acq: 01 Oct 2018 14:07

Tgt Ion: 83 Resp: 1111
Ion Ratio Lower Upper
83 100
85 82.3 52.6 79.0#





#33

1,2-Dichloroethane-d4

Concen: 54.709 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

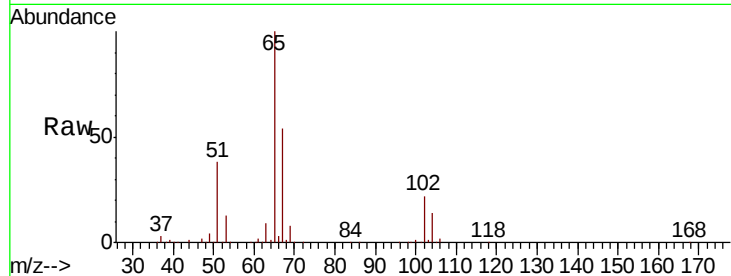
SA-TW502-4953

Tot Ion: 65 Resp: 170795

Ion Ratio Lower Upper

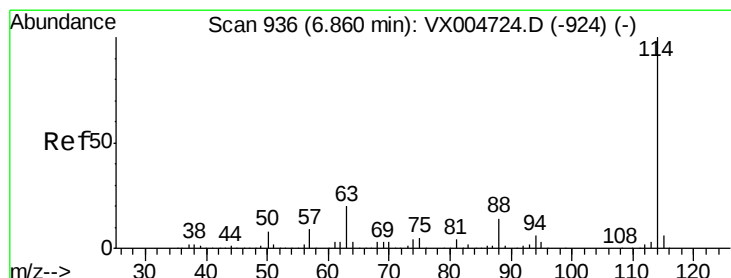
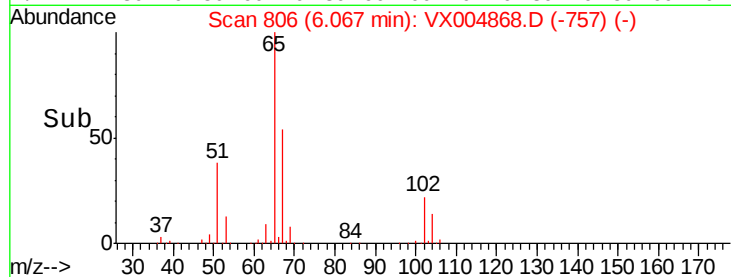
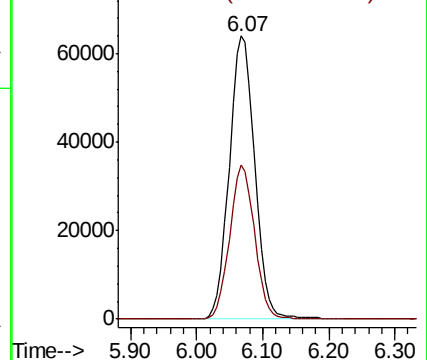
65 100

67 53.2 0.0 106.8



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: VX004868.D

Acq: 01 Oct 2018 14:07

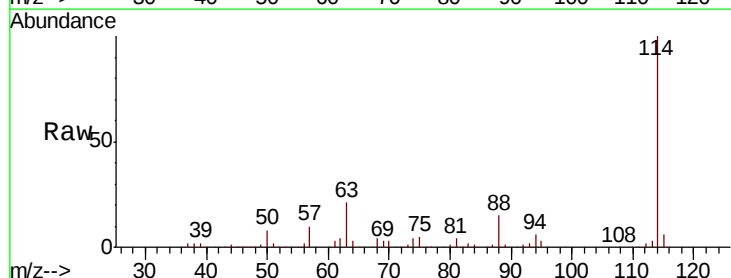
Tgt Ion: 114 Resp: 355969

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.0

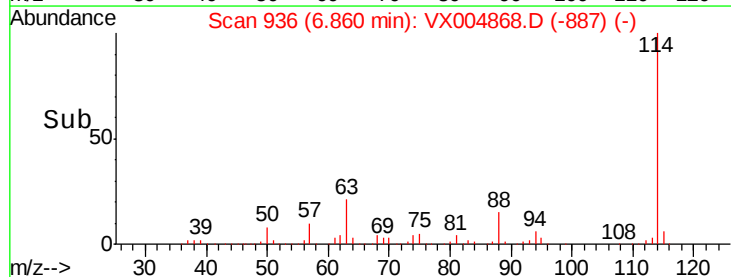
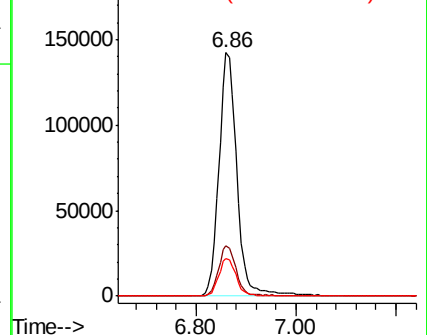
88 15.3 0.0 30.4

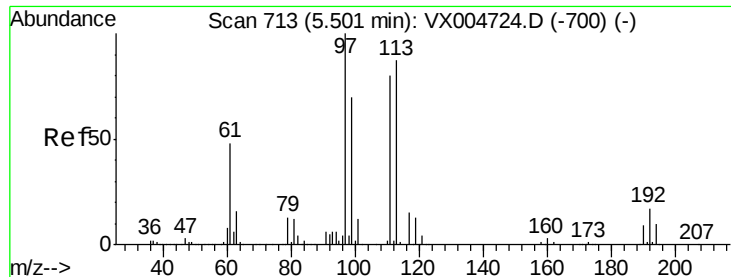


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

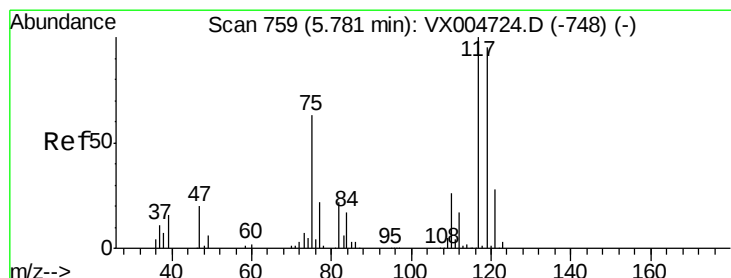
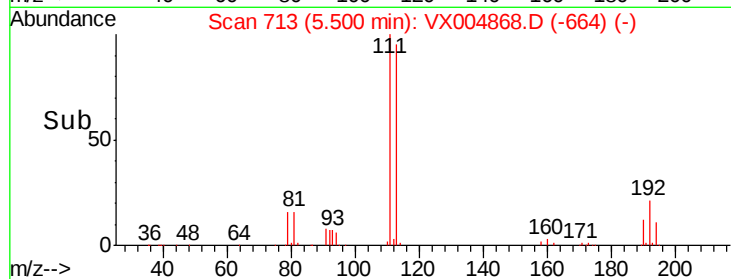
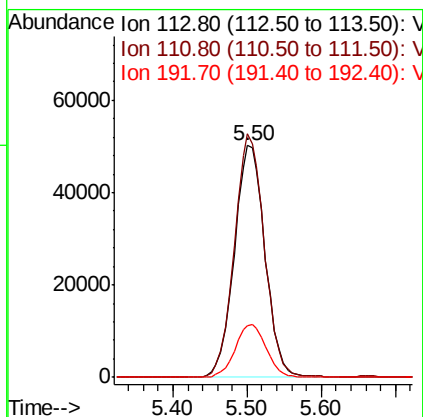
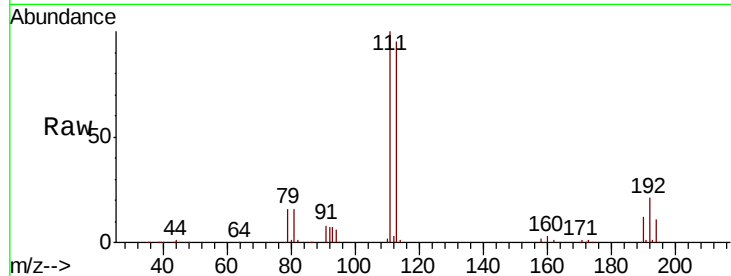




#35
 Dibromofluoromethane
 Concen: 47.948 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004868.D
 Acq: 01 Oct 2018 14:07

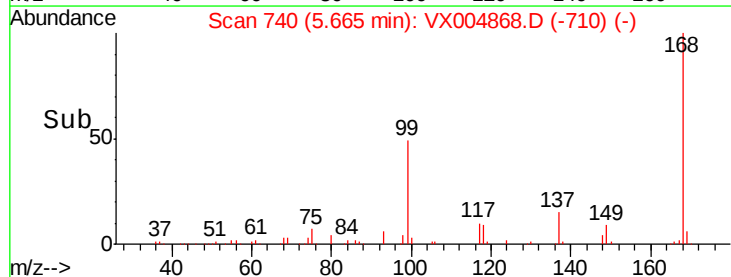
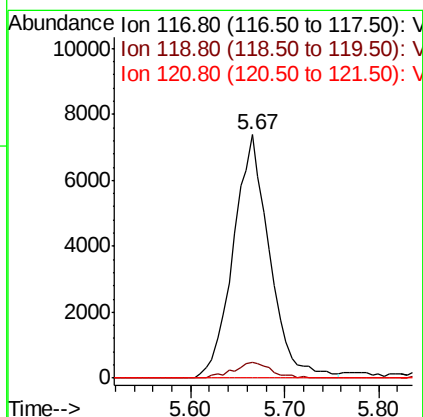
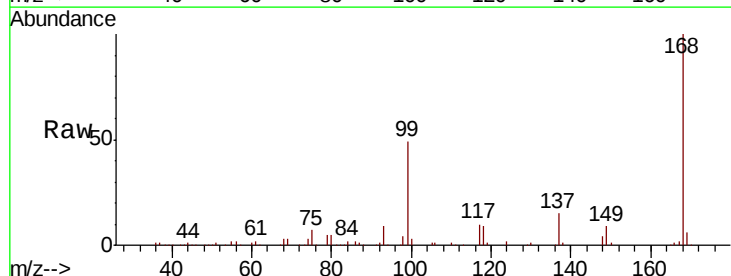
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW502-4953

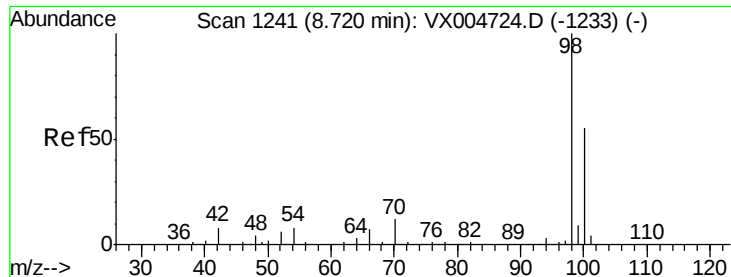
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.4	123.6
192	22.9	19.4	29.2



#38
 Carbon Tetrachloride
 Concen: 4.582 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX004868.D
 Acq: 01 Oct 2018 14:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	78.8	118.2#
121	0.0	24.9	37.3#

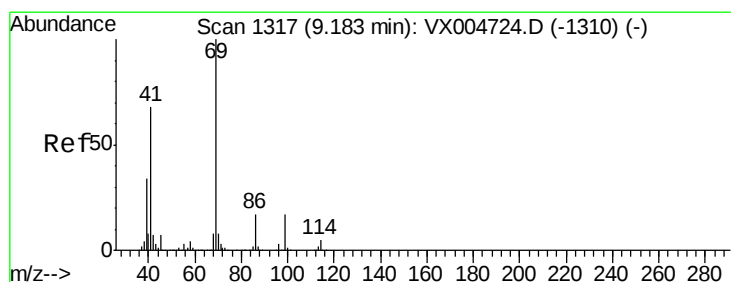
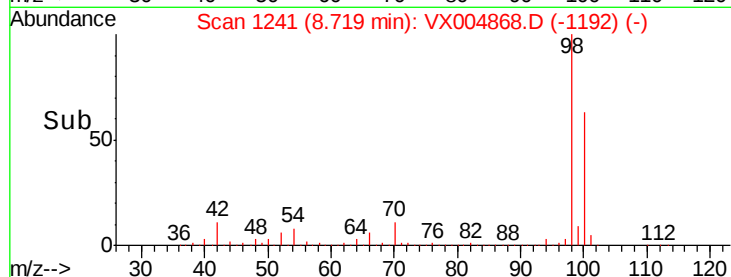
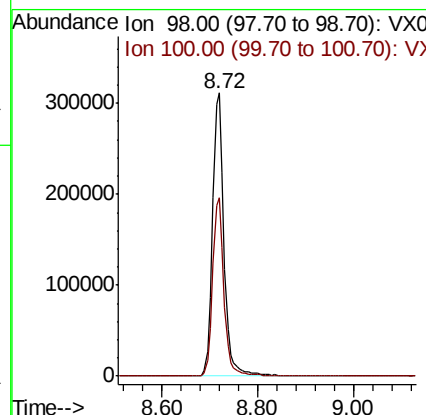
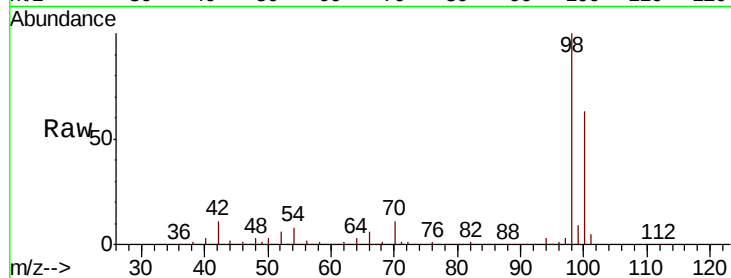




#50
Toluene-d8
Concen: 51.830 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004868.D
Acq: 01 Oct 2018 14:07

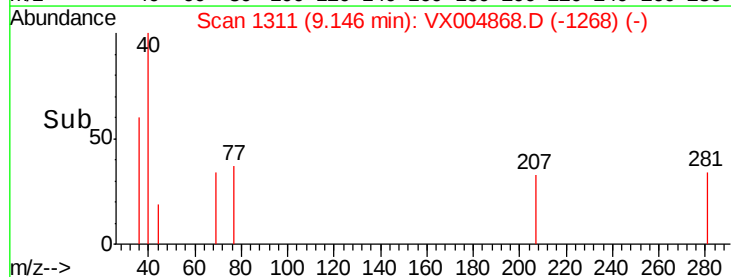
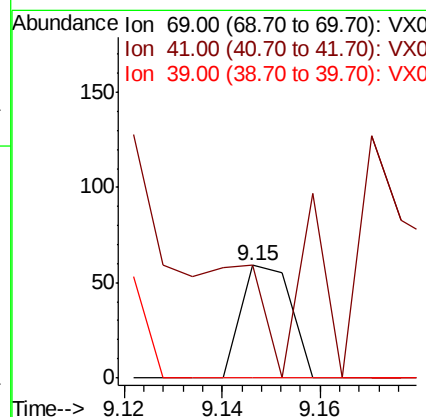
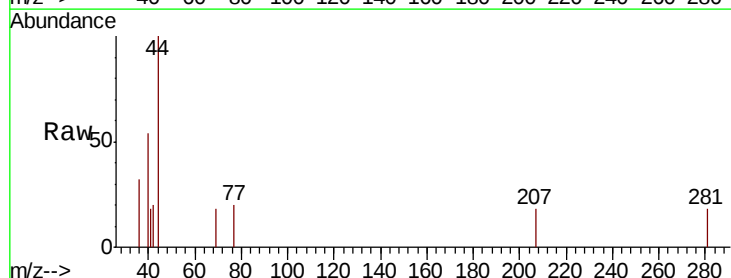
Instrument :
MSVOA_X
ClientSampleId :
SA-TW502-4953

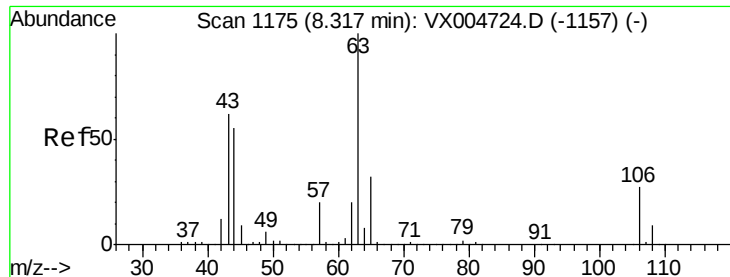
Tot Ion: 98 Resp: 519831
Ion Ratio Lower Upper
98 100
100 62.8 52.9 79.3



#56
Ethyl methacrylate
Concen: 2.870 ug/l
RT: 9.15 min Scan# 1311
Delta R.T. -0.04 min
Lab File: VX004868.D
Acq: 01 Oct 2018 14:07

Tgt Ion: 69 Resp: 42
Ion Ratio Lower Upper
69 100
41 0.0 51.0 76.4#
39 0.0 26.1 39.1#





#58

2-Chloroethyl Vinyl ether

Concen: 14.250 ug/l

RT: 8.25 min Scan# 1164

Delta R.T. -0.07 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

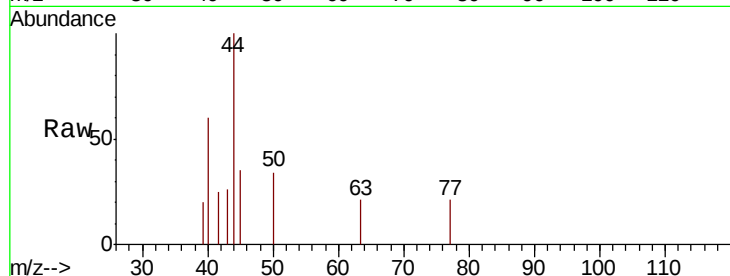
SA-TW502-4953

Tot Ion: 63 Resp: 21

Ion Ratio Lower Upper

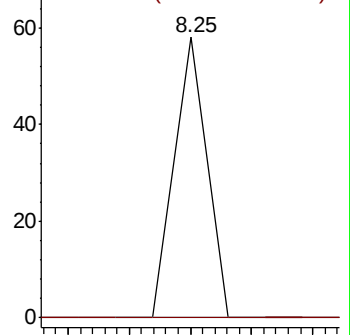
63 100

106 0.0 23.9 35.9#

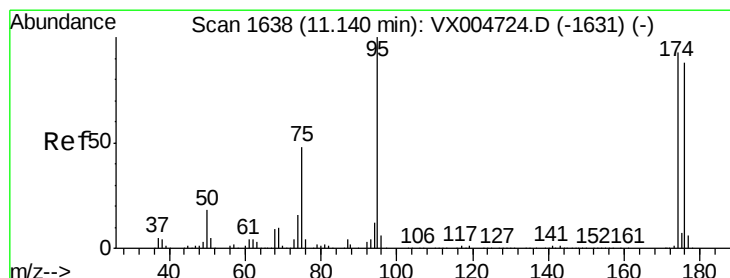
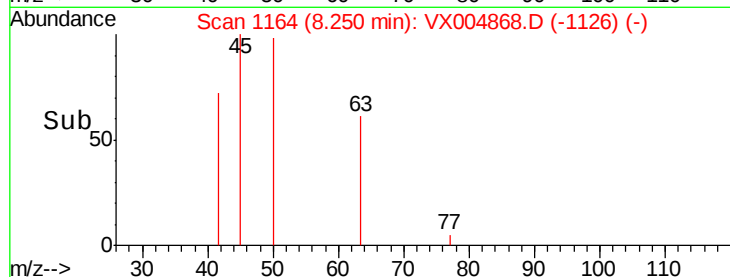


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V



Time-->



#62

4-Bromofluorobenzene

Concen: 51.047 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

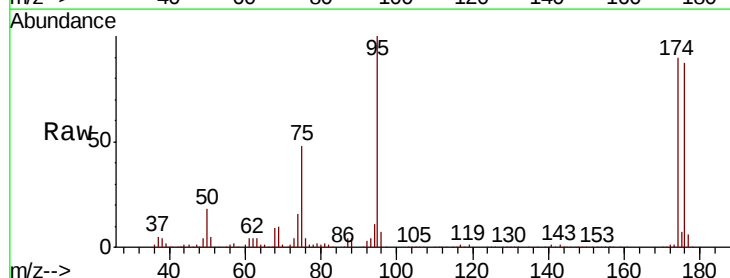
Tgt Ion: 95 Resp: 184446

Ion Ratio Lower Upper

95 100

174 91.2 0.0 185.2

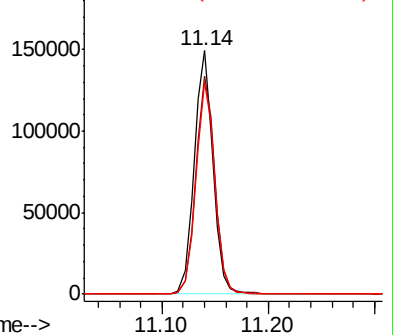
176 87.8 0.0 178.6



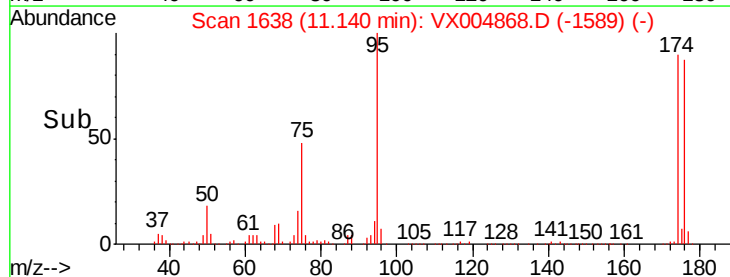
Abundance Ion 94.90 (94.60 to 95.60): VX0

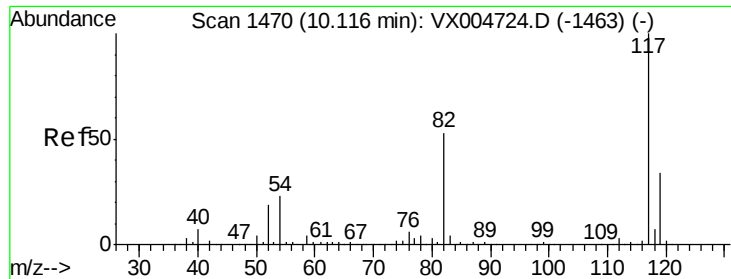
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

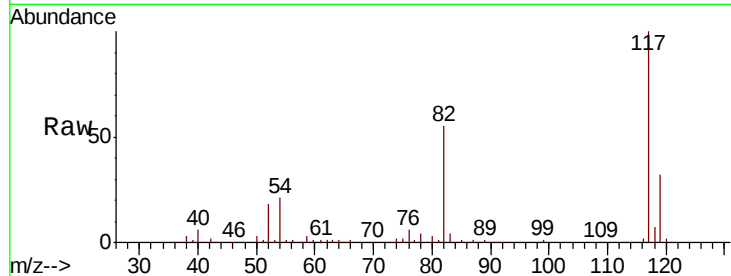




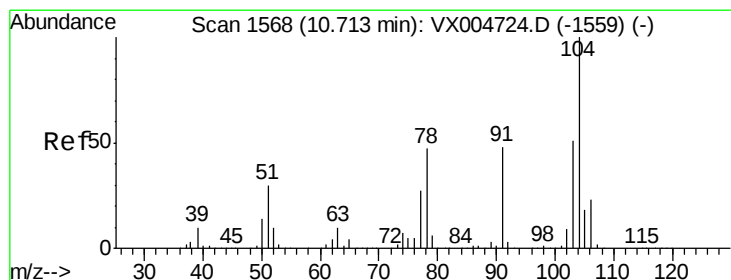
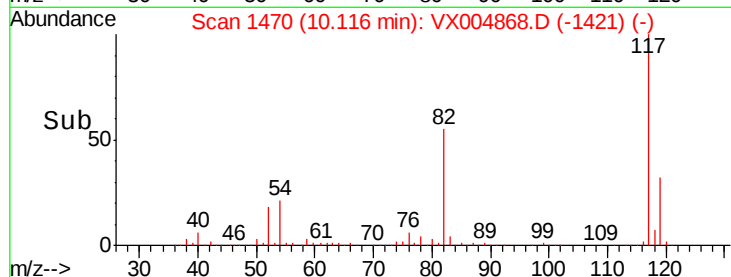
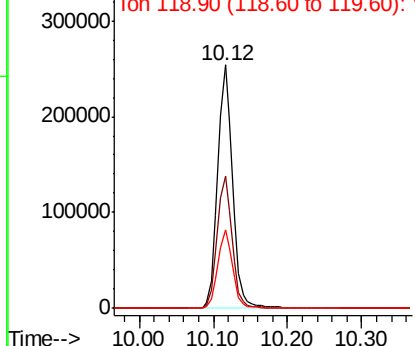
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004868.D
Acq: 01 Oct 2018 14:07

Instrument :
MSVOA_X
ClientSampleId :
SA-TW502-4953

Tot Ion:117 Resp: 349073
Ion Ratio Lower Upper
117 100
82 54.5 47.8 71.6
119 32.3 29.3 43.9

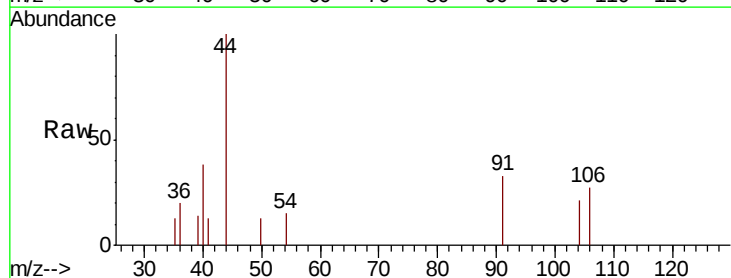


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

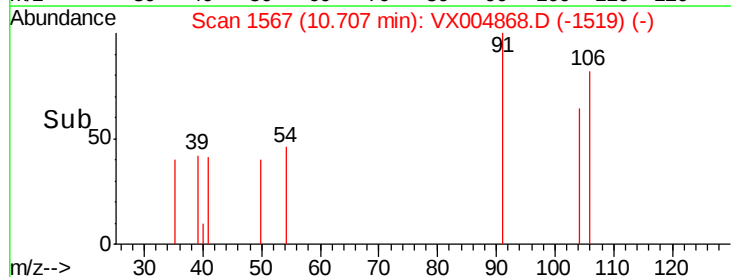
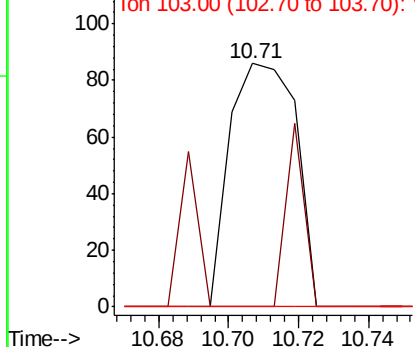


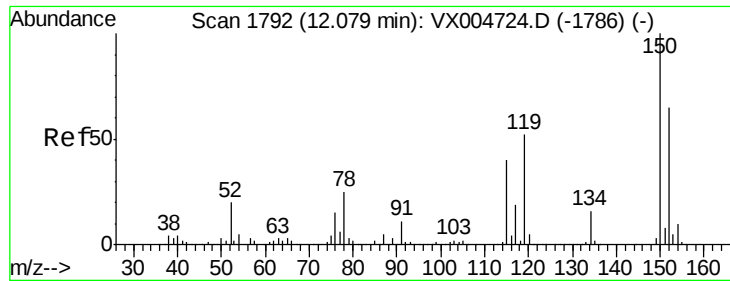
#70
Styrene
Concen: 2.152 ug/l
RT: 10.71 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VX004868.D
Acq: 01 Oct 2018 14:07

Tgt Ion:104 Resp: 114
Ion Ratio Lower Upper
104 100
78 21.1 37.4 56.0#
103 0.0 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): 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: VX004868.D

Acq: 01 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

SA-TW502-4953

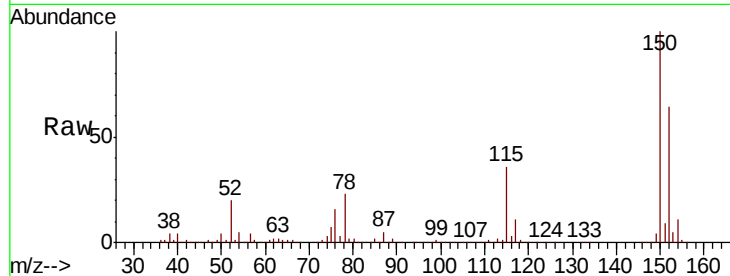
Tot Ion:152 Resp: 190157

Ion Ratio Lower Upper

152 100

115 55.9 39.0 117.0

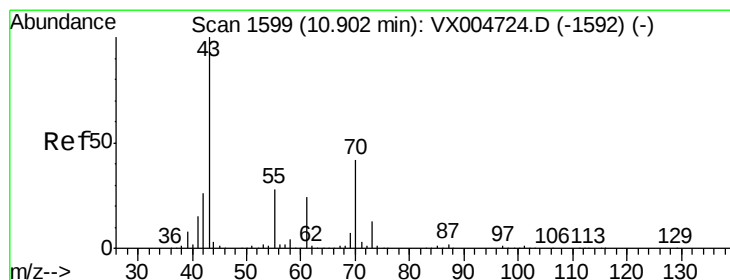
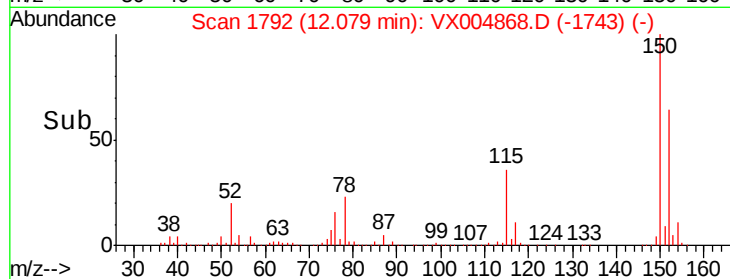
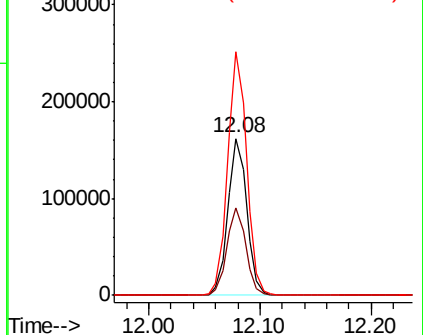
150 156.2 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.756 ug/l

RT: 10.93 min Scan# 1603

Delta R.T. 0.02 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

Tgt Ion: 43 Resp: 54

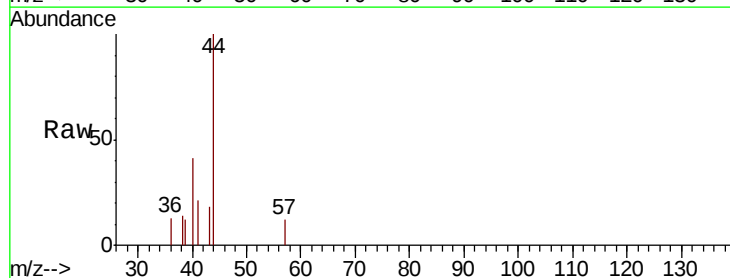
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 0.0 21.8 32.8#

61 0.0 20.6 30.8#

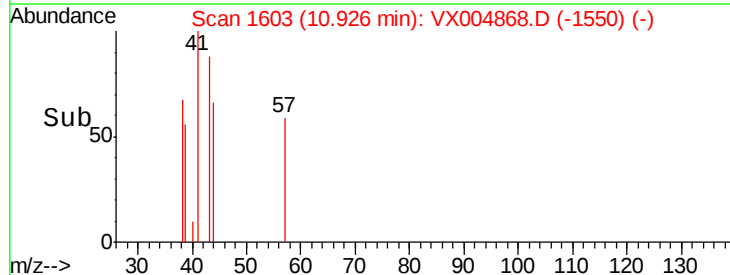
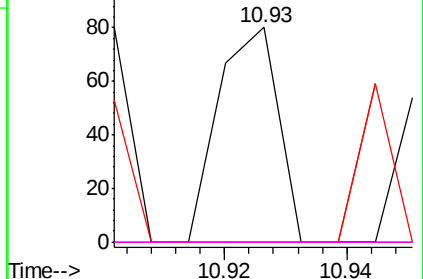


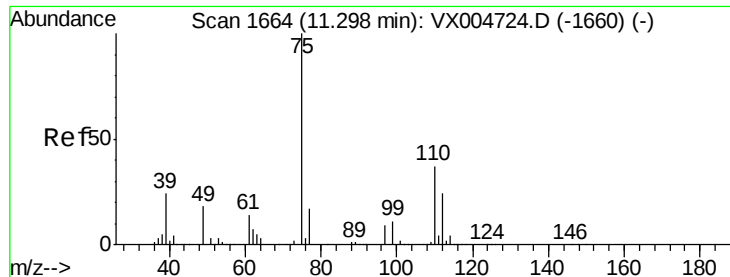
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.279 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

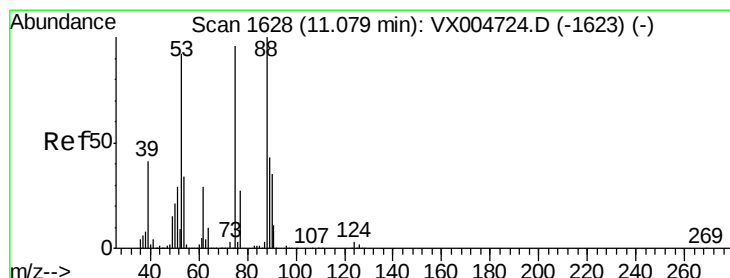
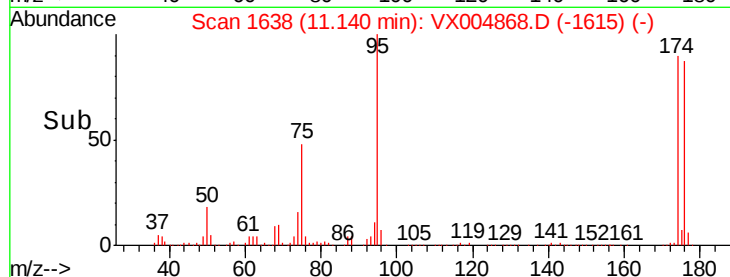
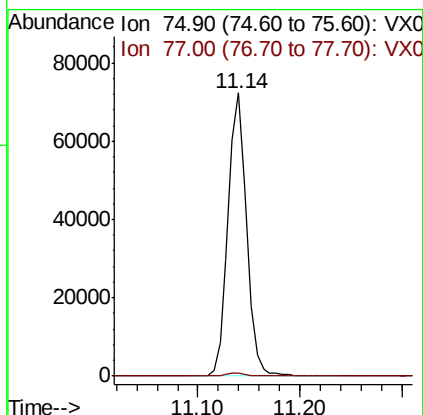
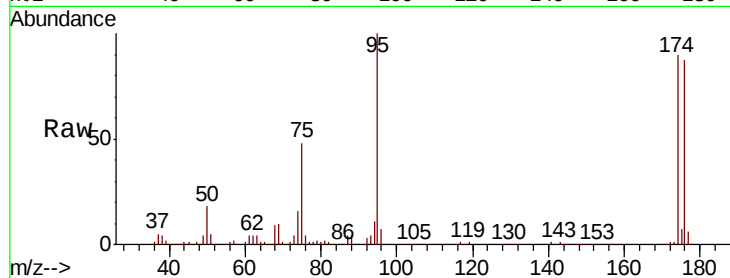
SA-TW502-4953

Tot Ion: 75 Resp: 90692

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.716 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

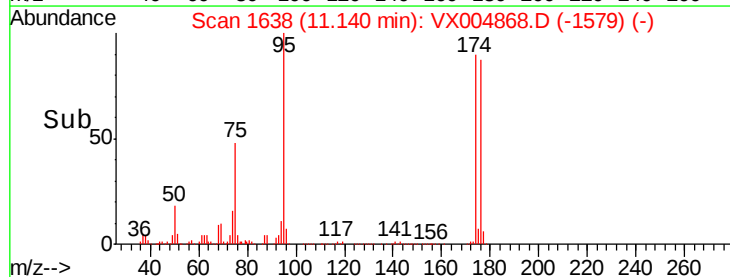
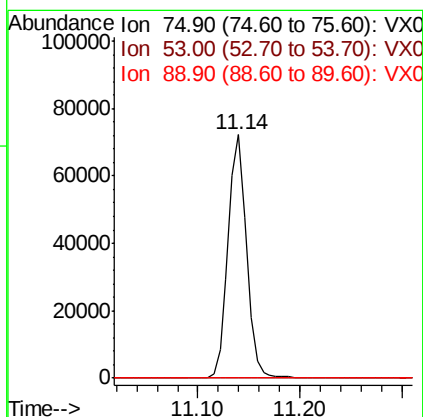
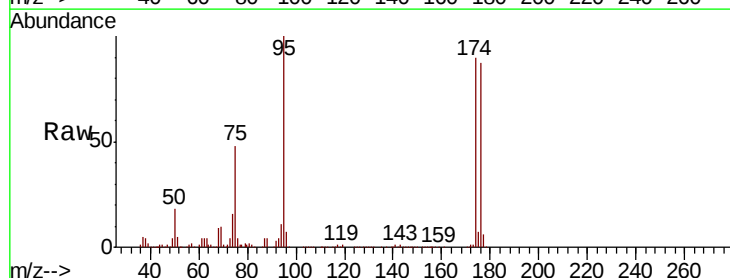
Tgt Ion: 75 Resp: 90692

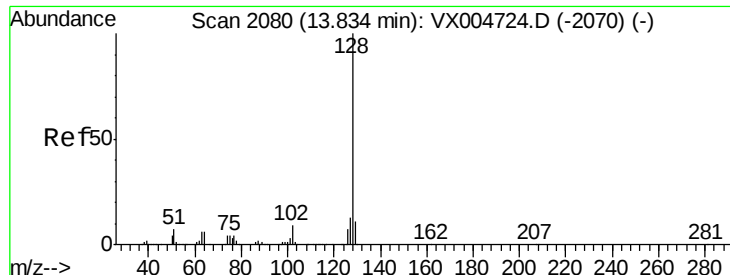
Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 0.746 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004868.D

Acq: 01 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

SA-TW502-4953

Tot Ion:128 Resp: 433

Ion Ratio Lower Upper

128 100

127 15.2 10.2 15.2#

129 0.0 8.6 12.8#

