

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091918\
 Data File : VX004705.D
 Acq On : 19 Sep 2018 14:59
 Operator : JC/MD
 Sample : J4939-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Sep 20 03:48:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	235799	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	346704	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	313479	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171535	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	136511	44.90	ug/l	0.00
Spiked Amount			Recovery	=	89.80%	
35) Dibromofluoromethane	5.51	113	130868	41.25	ug/l	0.00
Spiked Amount			Recovery	=	82.50%	
50) Toluene-d8	8.72	98	464552	43.66	ug/l	0.00
Spiked Amount			Recovery	=	87.32%	
62) 4-Bromofluorobenzene	11.14	95	162514	42.79	ug/l	0.00
Spiked Amount			Recovery	=	85.58%	

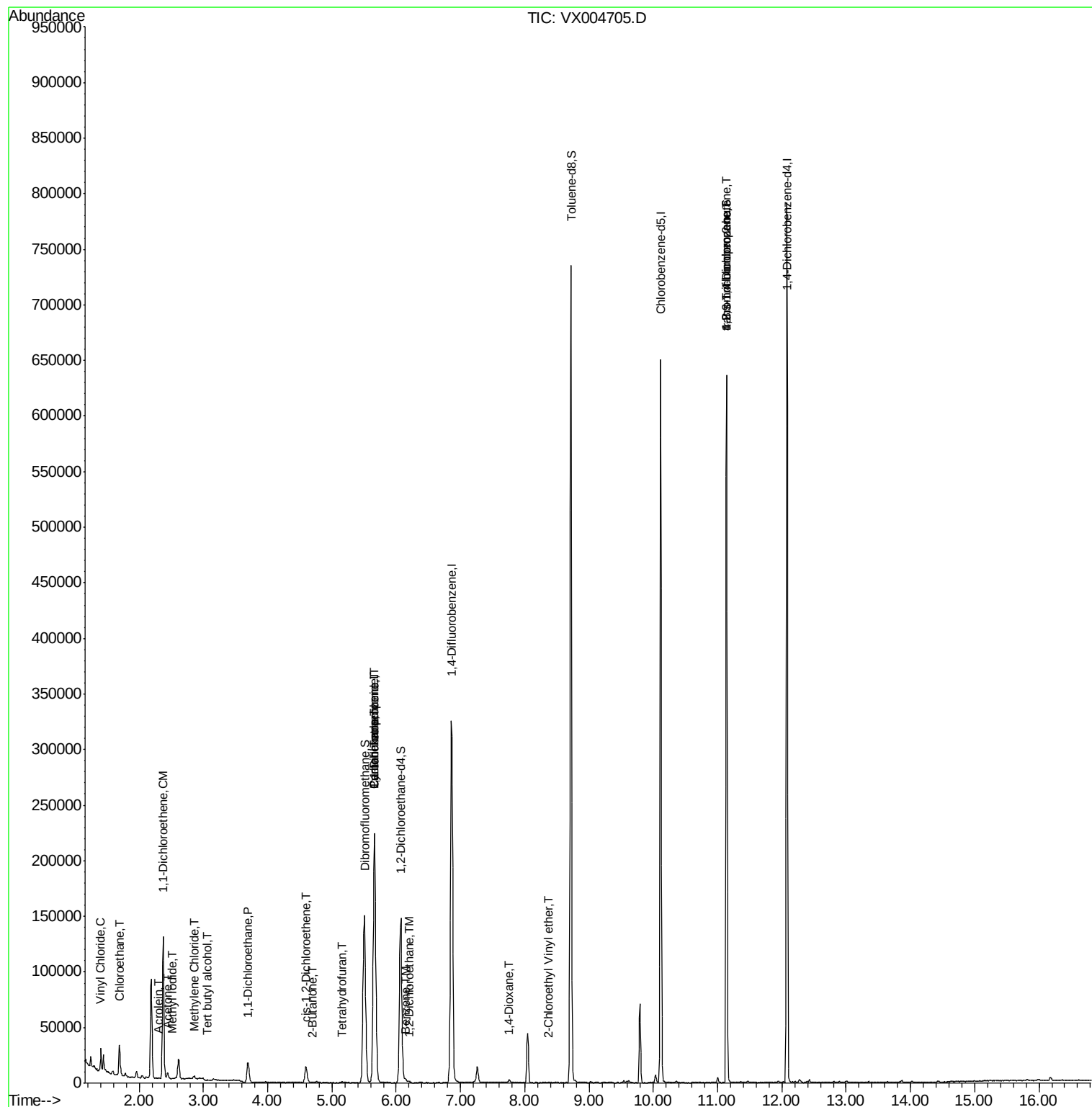
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	12881	4.13	ug/l	100
5) Bromomethane	1.66	94	571	Below	Cal	99
6) Chloroethane	1.70	64	773	0.38	ug/l	91
10) Methyl Iodide	2.52	142	654	4.45	ug/l #	85
11) Tert butyl alcohol	3.07	59	373	0.51	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	45338	18.40	ug/l	98
13) Acrolein	2.30	56	72	0.25	ug/l #	16
16) Acetone	2.44	43	4871	3.28	ug/l	91
20) Methylene Chloride	2.85	84	920	0.30	ug/l	89
24) 1,1-Dichloroethane	3.69	63	20622	4.00	ug/l	97
25) 2-Butanone	4.71	43	665	0.28	ug/l	100
27) cis-1,2-Dichloroethene	4.59	96	9853	3.24	ug/l	87
29) Tetrahydrofuran	5.16	42	862	0.61	ug/l #	63
31) Cyclohexane	5.66	56	3710	0.84	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14647	3.48	ug/l #	49
38) Carbon Tetrachloride	5.66	117	19679	4.79	ug/l #	16
40) Benzene	6.15	78	3444	0.28	ug/l	93
42) 1,2-Dichloroethane	6.20	62	1165	0.28	ug/l #	72
49) 1,4-Dioxane	7.76	88	1686	22.64	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.37	63	206	7.36	ug/l #	45
76) 1,2,3-Trichloropropane	11.14	75	74545	21.60	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	74545	68.85	ug/l #	10

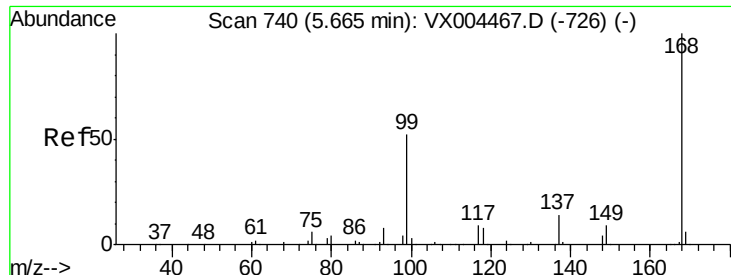
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091918\
Data File : VX004705.D
Acq On : 19 Sep 2018 14:59
Operator : JC/MD
Sample : J4939-03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-3

Quant Time: Sep 20 03:48:28 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampled :

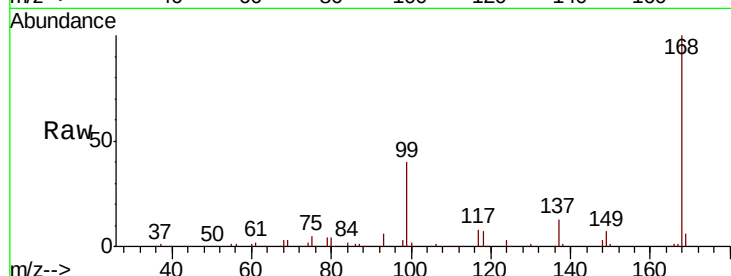
MW-3

Tot Ion:168 Resp: 235799

Ion Ratio Lower Upper

168 100

99 40.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

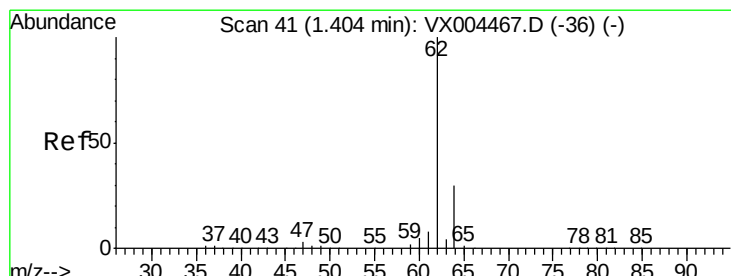
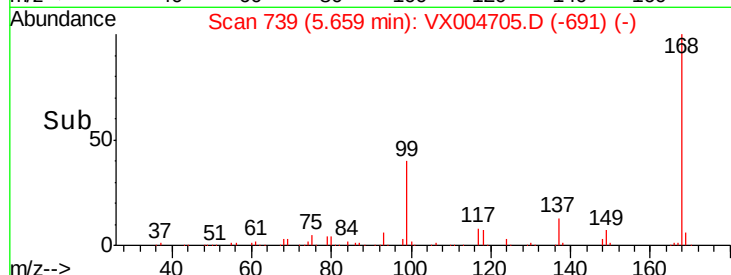
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 4.13 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX004705.D

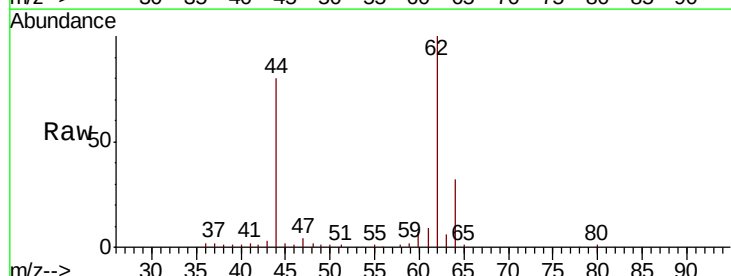
Acq: 19 Sep 2018 14:59

Tgt Ion: 62 Resp: 12881

Ion Ratio Lower Upper

62 100

64 32.5 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

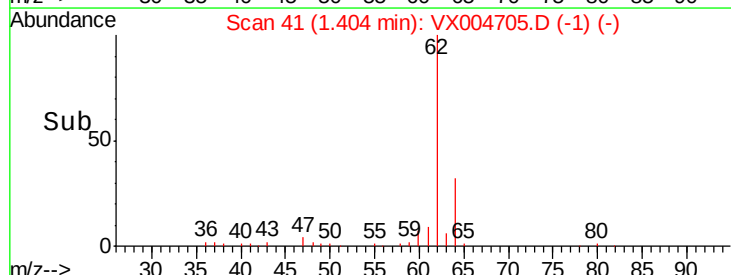
1.40

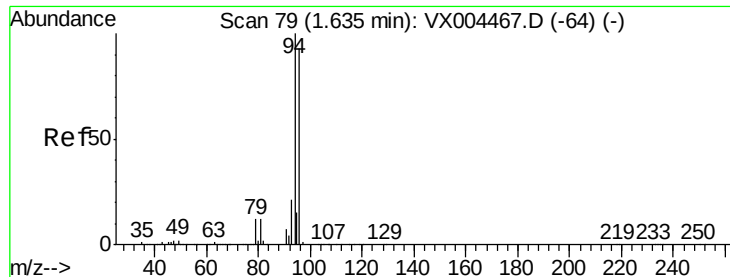
10000

5000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampled :

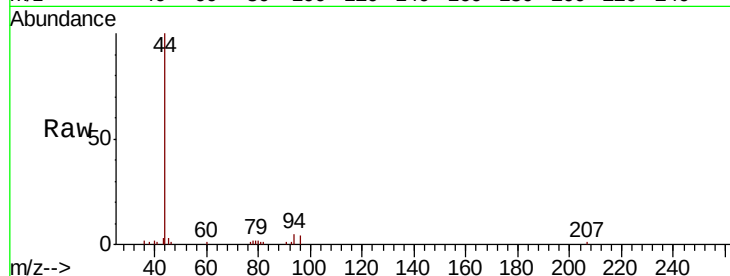
MW-3

Tot Ion: 94 Resp: 571

Ion Ratio Lower Upper

94 100

96 91.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

250

200

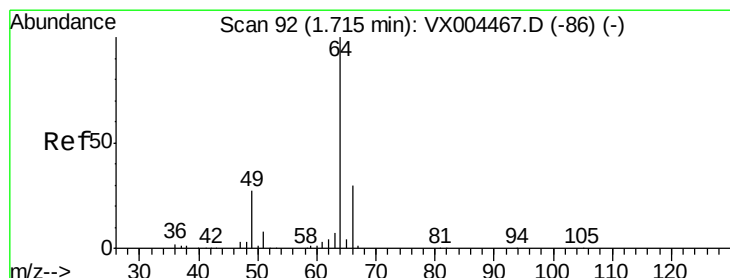
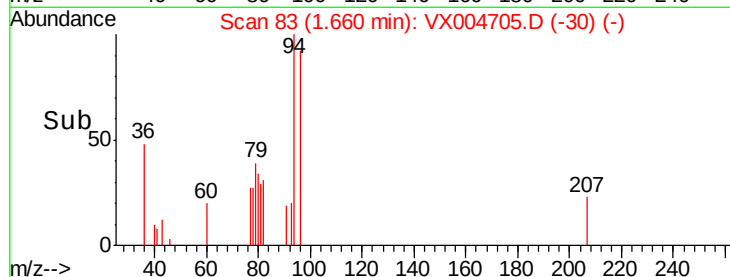
150

100

50

0

Time-->



#6

Chloroethane

Concen: 0.38 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX004705.D

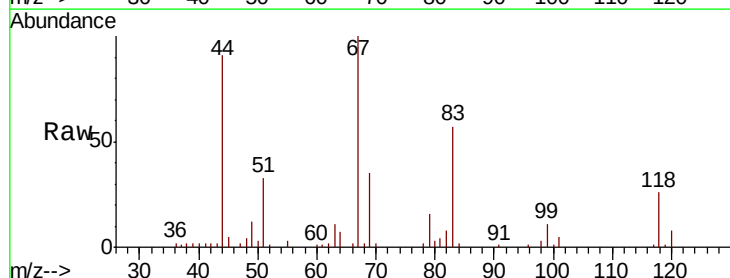
Acq: 19 Sep 2018 14:59

Tgt Ion: 64 Resp: 773

Ion Ratio Lower Upper

64 100

66 26.0 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

500

400

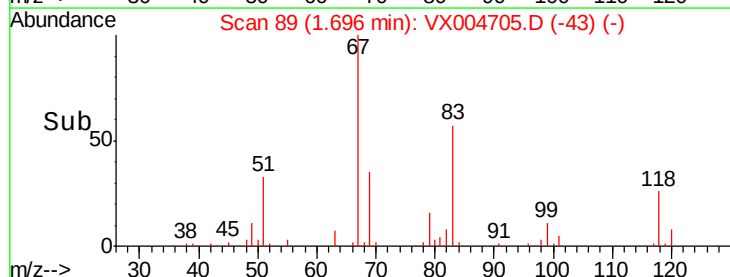
300

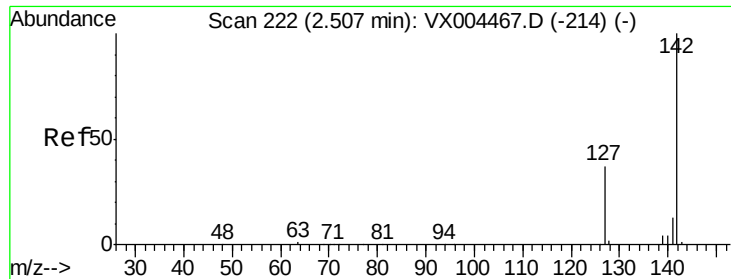
200

100

0

Time-->

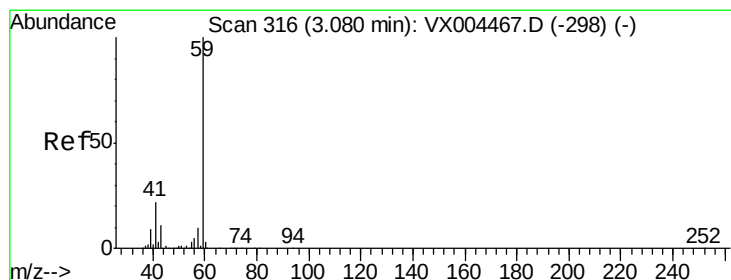
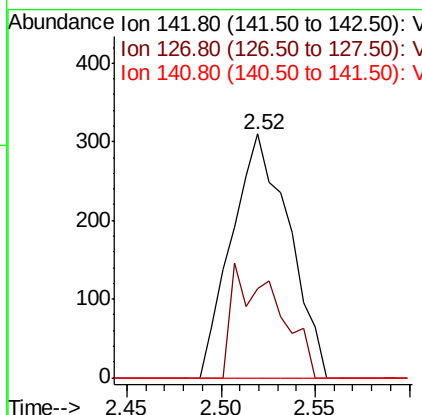
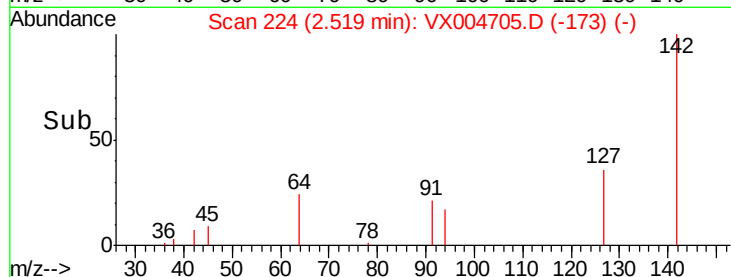
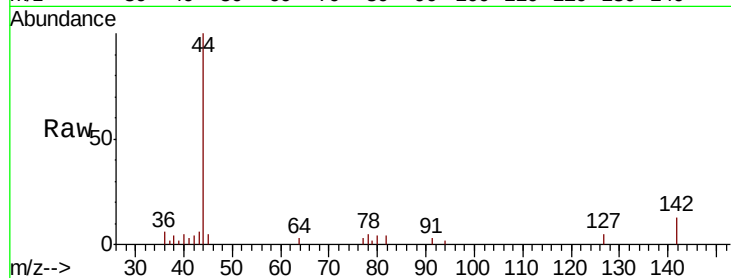




#10
Methvl Iodide
Concen: 4.45 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004705.D
Acq: 19 Sep 2018 14:59

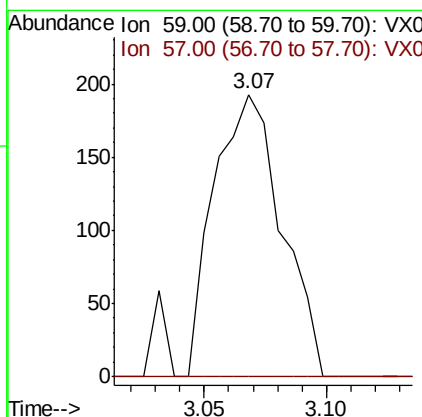
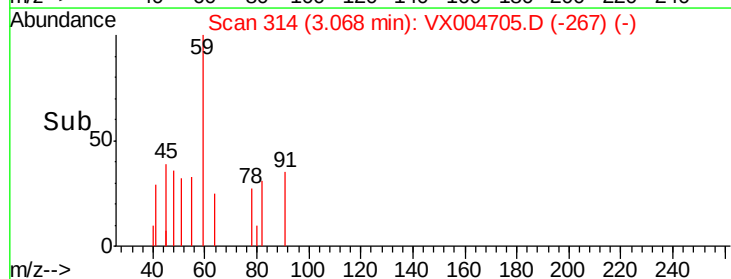
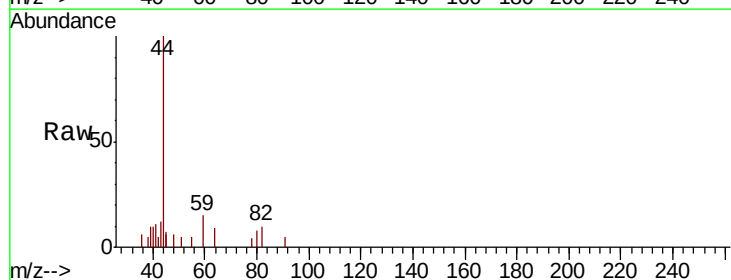
Instrument :
MSVOA_X
ClientSampled :
MW-3

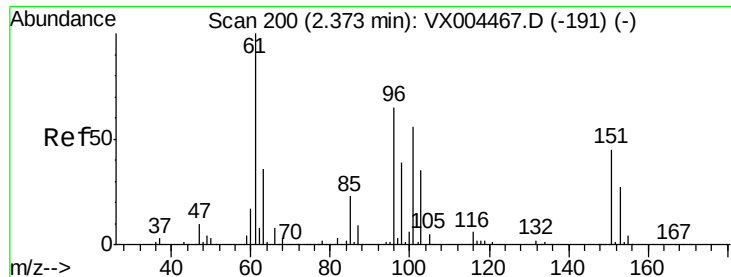
Tot Ion:142 Resp: 654
Ion Ratio Lower Upper
142 100
127 37.3 33.8 50.6
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.51 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004705.D
Acq: 19 Sep 2018 14:59

Tgt Ion: 59 Resp: 373
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

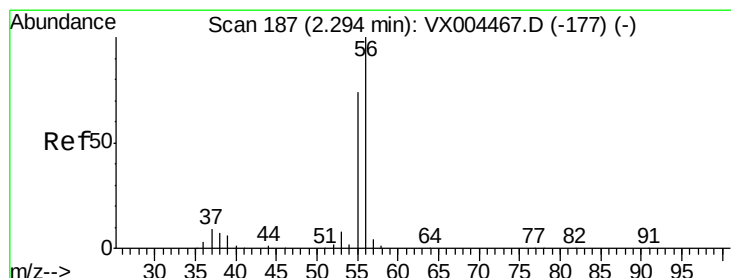
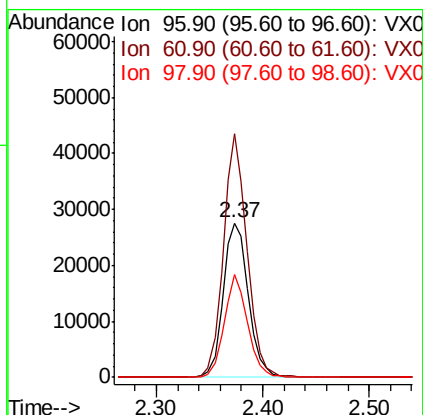
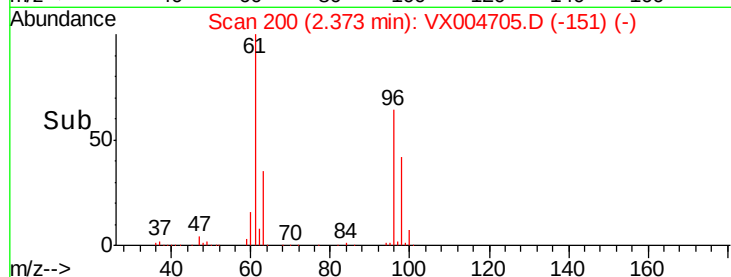
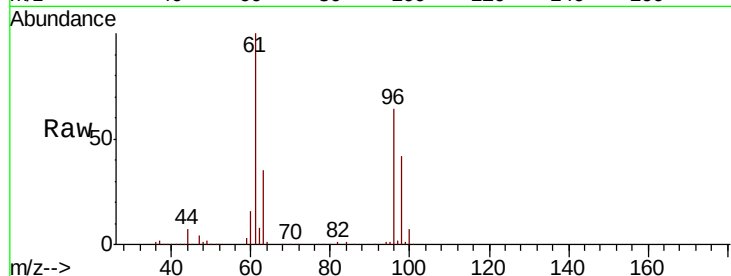




#12
 1,1-Dichloroethene
 Concen: 18.40 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.00 min
 Lab File: VX004705.D
 Acq: 19 Sep 2018 14:59

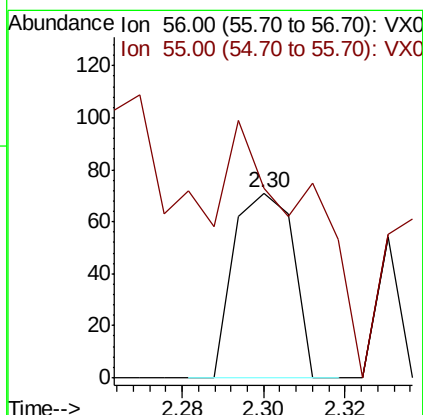
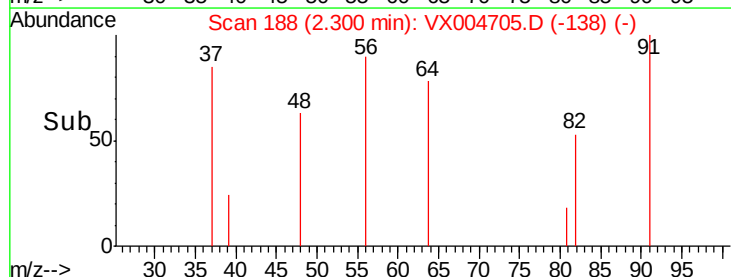
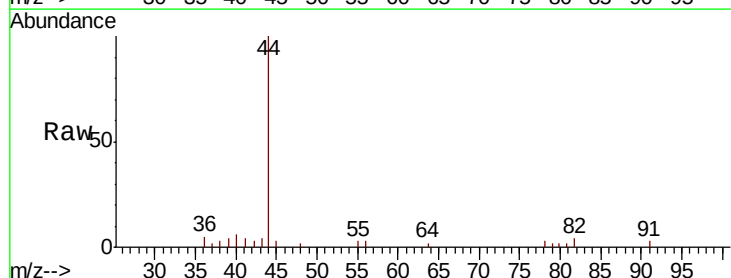
Instrument :
 MSVOA_X
 ClientSampled :
 MW-3

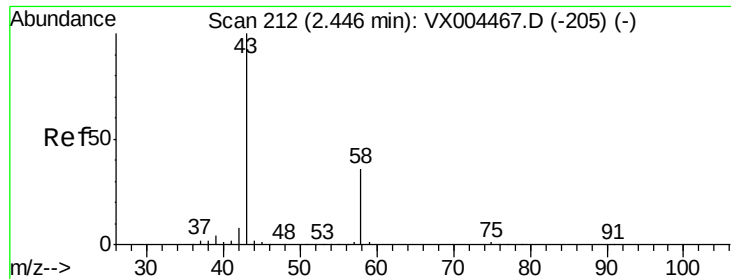
Tot Ion: 96 Resp: 45338
 Ion Ratio Lower Upper
 96 100
 61 157.5 128.8 193.2
 98 66.2 52.2 78.2



#13
 Acrolein
 Concen: 0.25 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX004705.D
 Acq: 19 Sep 2018 14:59

Tgt Ion: 56 Resp: 72
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.7 82.1#

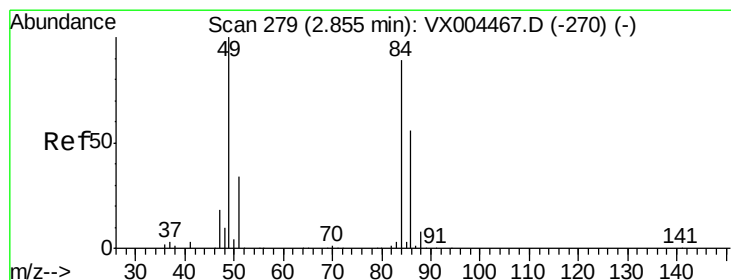
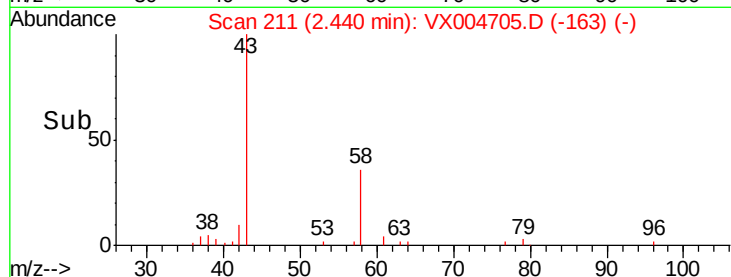
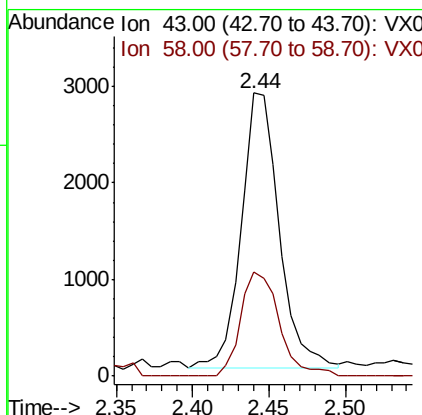
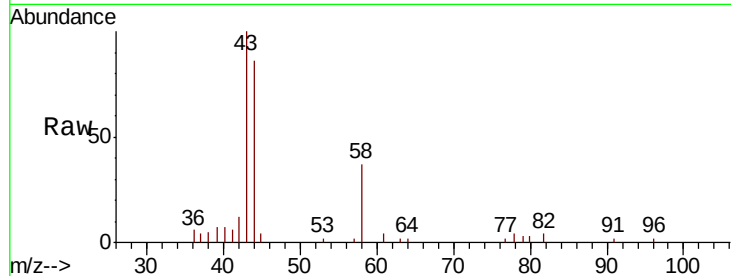




#16
Acetone
Concen: 3.28 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX004705.D
Acq: 19 Sep 2018 14:59

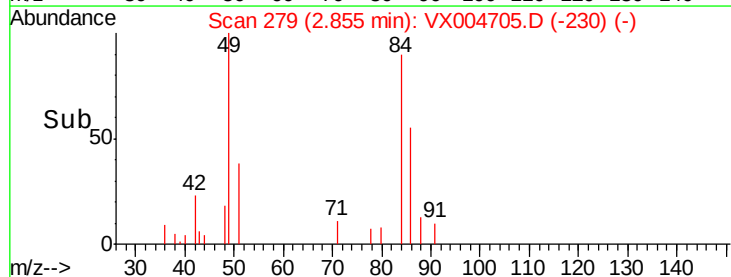
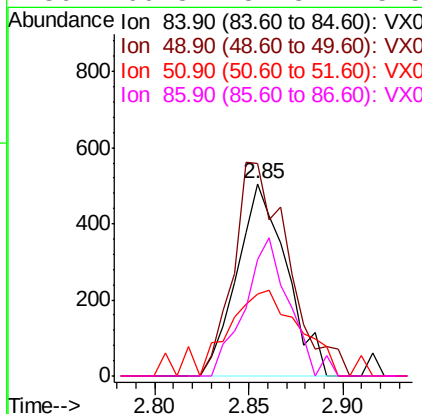
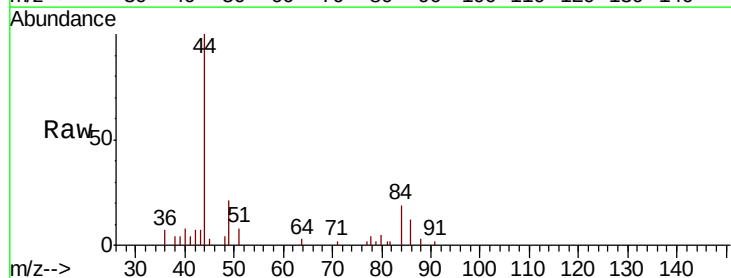
Instrument :
MSVOA_X
ClientSampleId :
MW-3

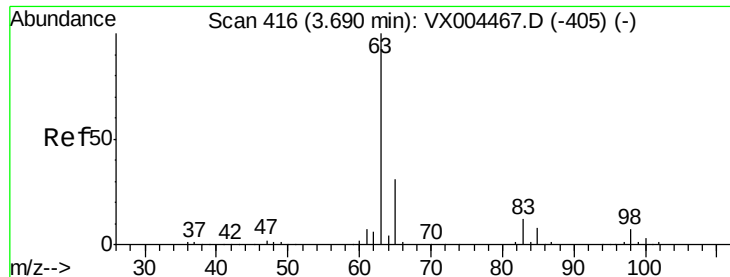
Tot Ion: 43 Resp: 4871
Ion Ratio Lower Upper
43 100
58 37.8 26.2 39.4



#20
Methylene Chloride
Concen: 0.30 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004705.D
Acq: 19 Sep 2018 14:59

Tgt Ion: 84 Resp: 920
Ion Ratio Lower Upper
84 100
49 110.9 101.2 151.8
51 42.6 29.5 44.3
86 60.8 52.3 78.5





#24

1,1-Dichloroethane

Concen: 4.00 ug/l

RT: 3.69 min Scan# 416

Delta R.T. 0.00 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampled :

MW-3

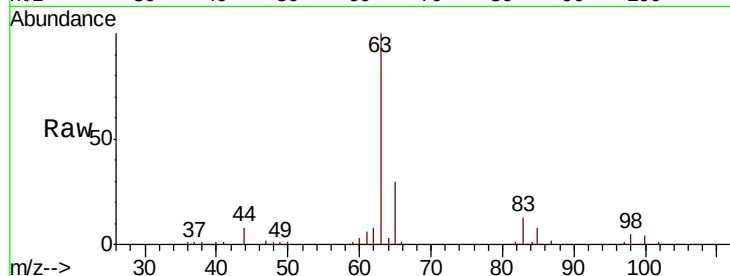
Tot Ion: 63 Resp: 20622

Ion Ratio Lower Upper

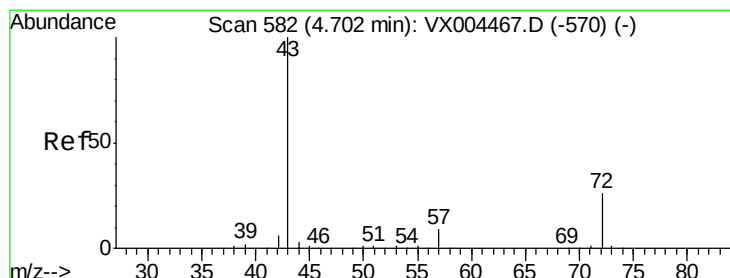
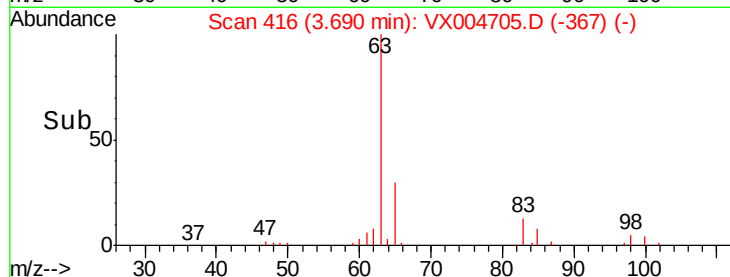
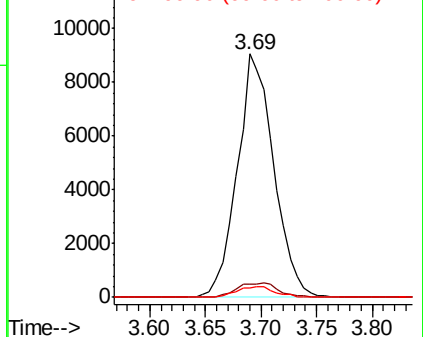
63 100

98 5.4 3.5 10.4

100 4.0 2.4 7.1



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.28 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004705.D

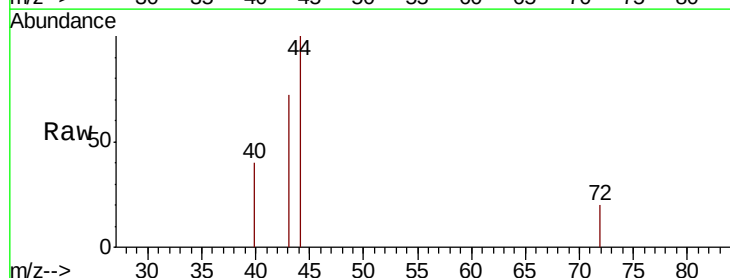
Acq: 19 Sep 2018 14:59

Tgt Ion: 43 Resp: 665

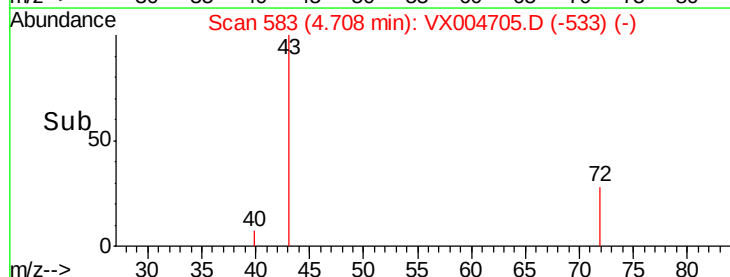
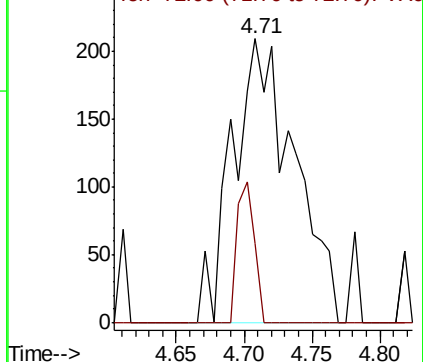
Ion Ratio Lower Upper

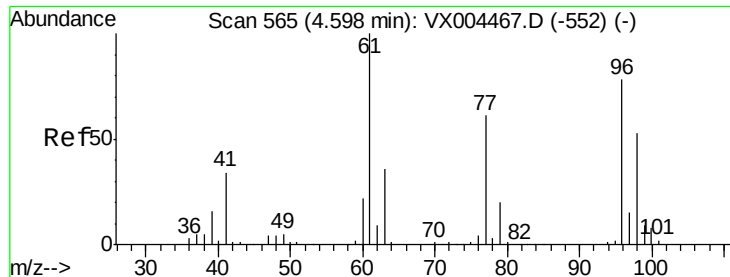
43 100

72 27.8 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 3.24 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampled :

MW-3

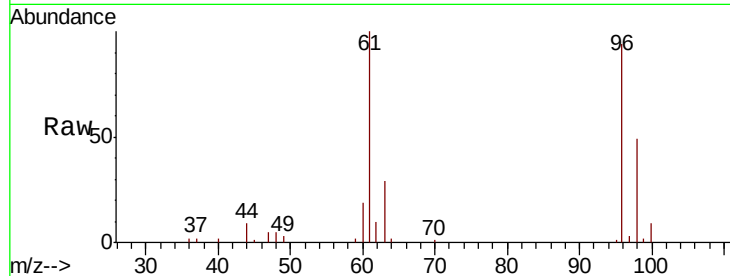
Tot Ion: 96 Resp: 9853

Ion Ratio Lower Upper

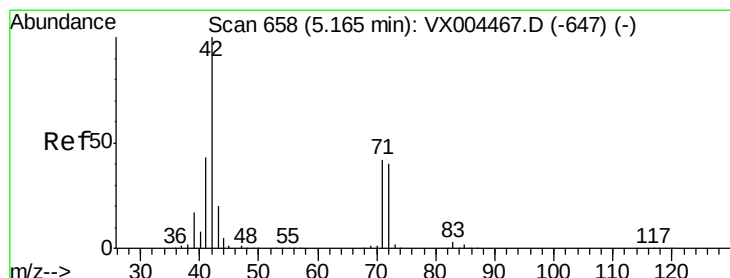
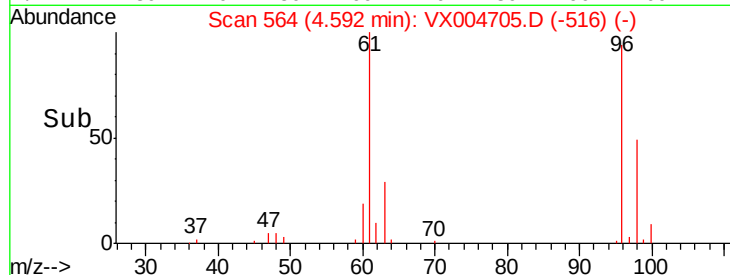
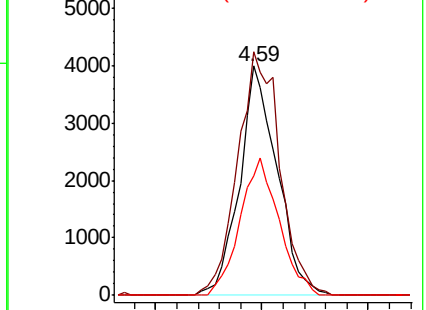
96 100

61 119.7 0.0 282.6

98 62.1 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.61 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

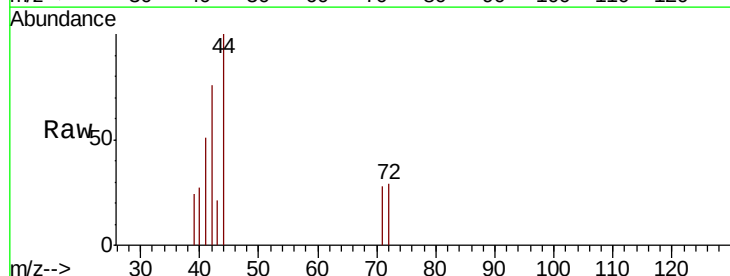
Tgt Ion: 42 Resp: 862

Ion Ratio Lower Upper

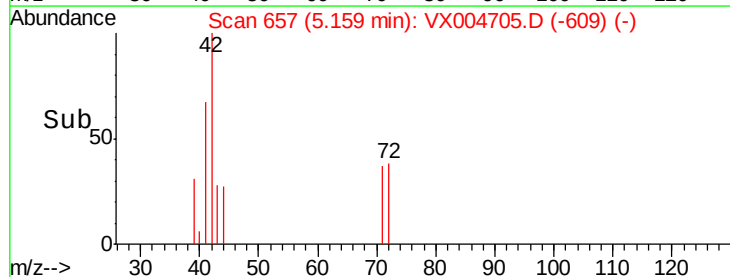
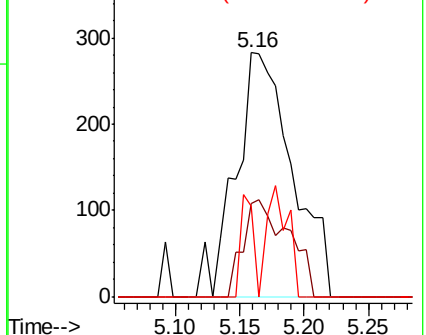
42 100

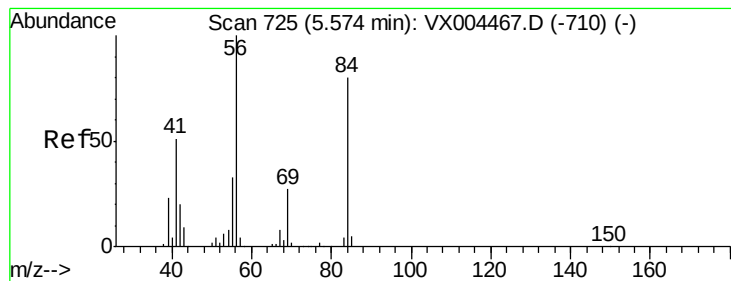
72 31.9 37.4 56.0#

71 9.5 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.84 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

MW-3

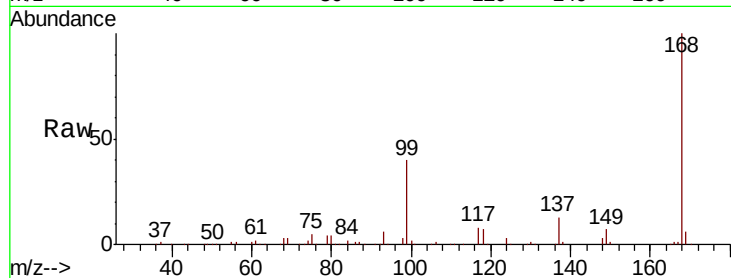
Tot Ion: 56 Resp: 3710

Ion Ratio Lower Upper

56 100

69 175.1 25.4 38.2#

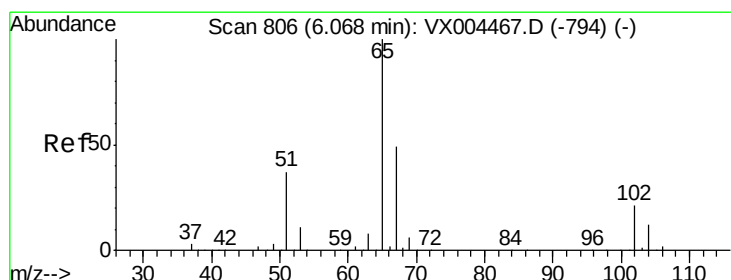
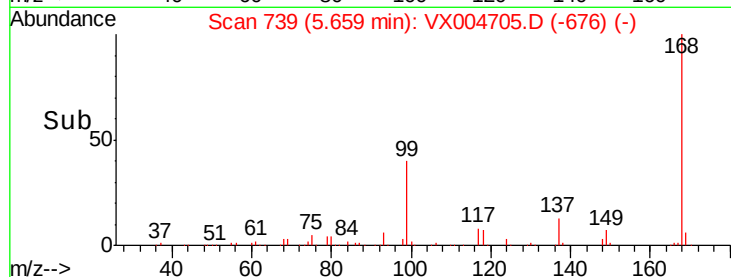
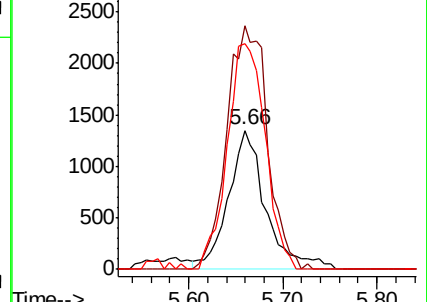
84 161.9 71.4 107.2#



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: 44.90 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004705.D

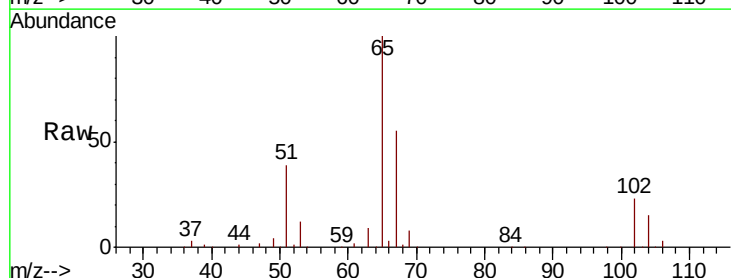
Acq: 19 Sep 2018 14:59

Tgt Ion: 65 Resp: 136511

Ion Ratio Lower Upper

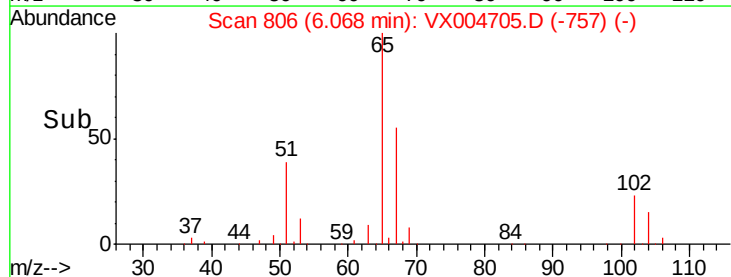
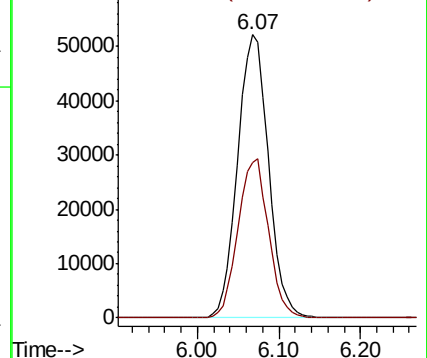
65 100

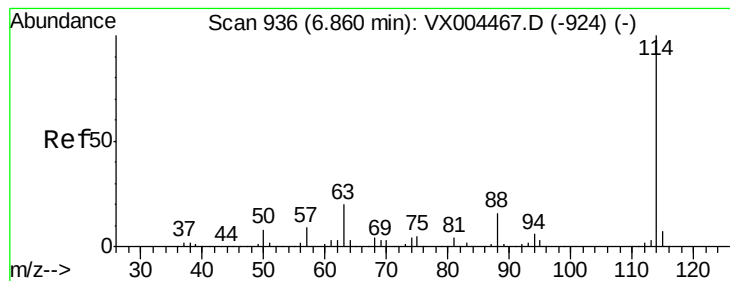
67 55.6 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

MW-3

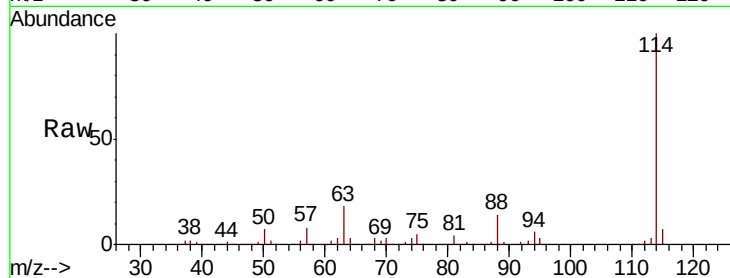
Tot Ion:114 Resp: 346704

Ion Ratio Lower Upper

114 100

63 18.2 0.0 39.0

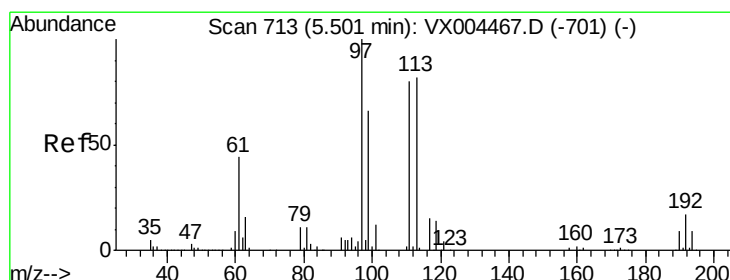
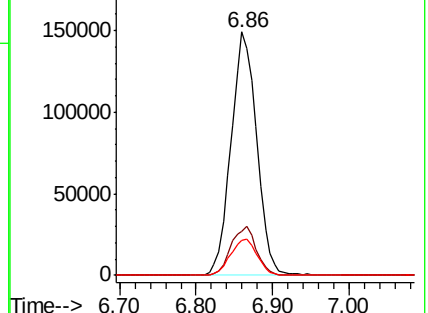
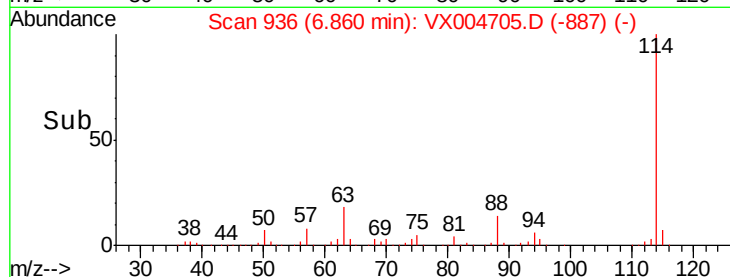
88 14.5 0.0 30.4



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: 41.25 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

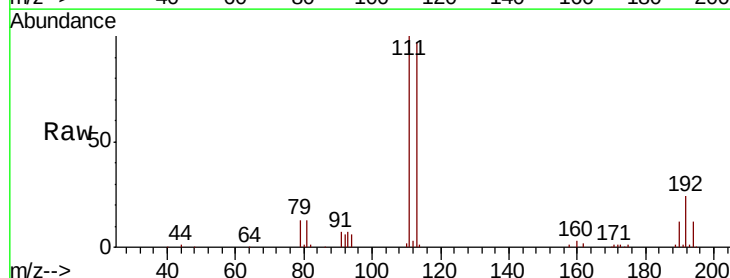
Tgt Ion:113 Resp: 130868

Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

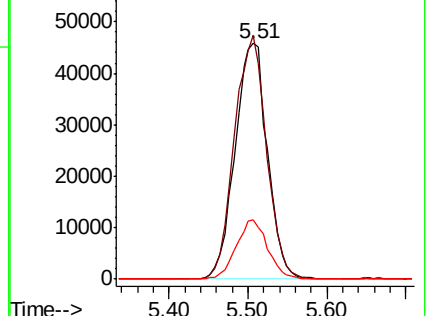
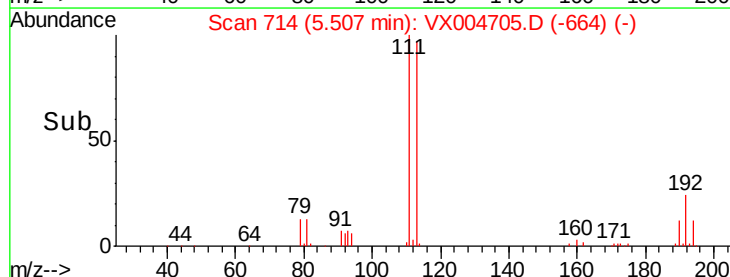
192 24.4 19.4 29.2

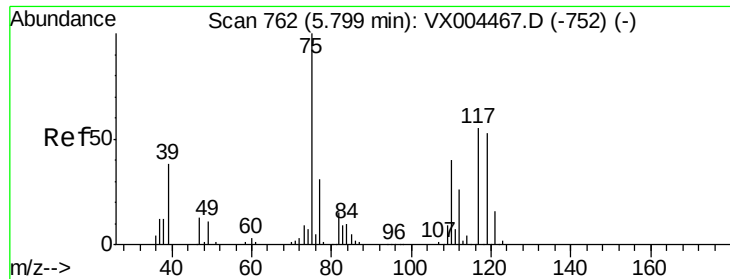


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

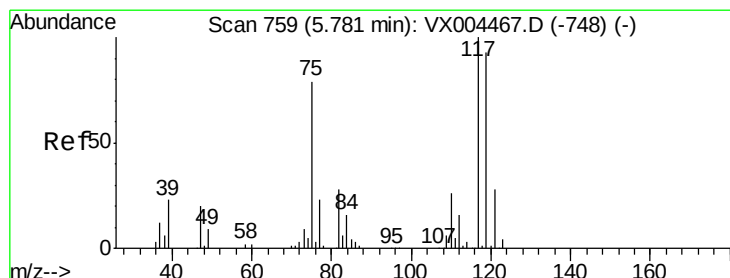
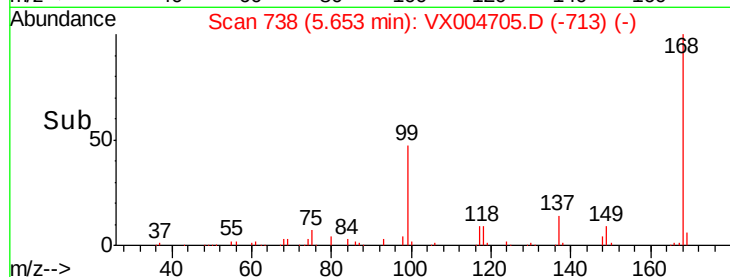
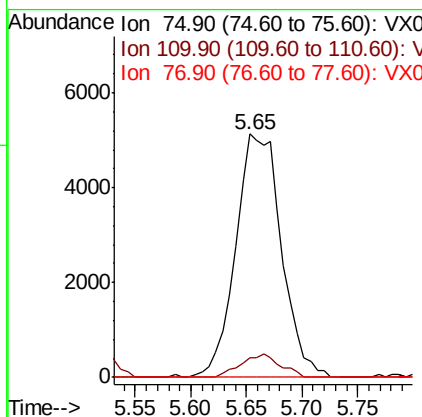
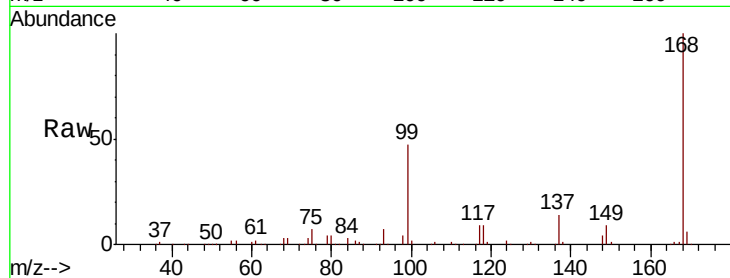




#36
 1,1-Dichloropropene
 Concen: 3.48 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX004705.D
 Acq: 19 Sep 2018 14:59

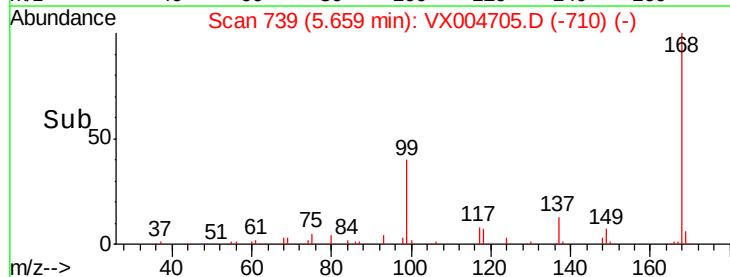
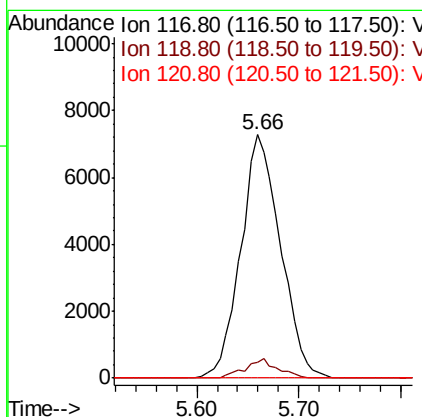
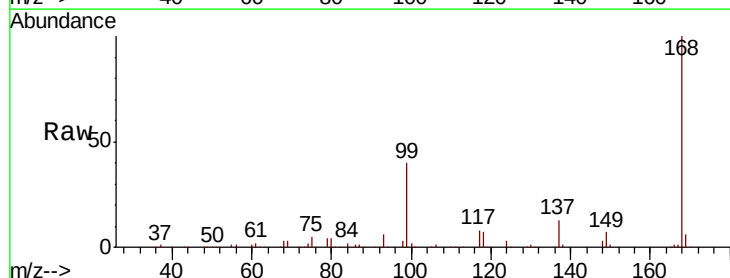
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

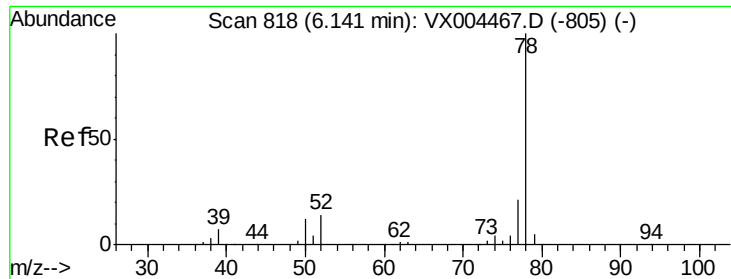
Tot Ion	75	Resp	14647
Ion Ratio	100	Lower	Upper
75	100		
110	8.1	18.0	54.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 4.79 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004705.D
 Acq: 19 Sep 2018 14:59

Tgt Ion	117	Resp	19679
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	6.3	78.8	118.2#
121	0.0	24.9	37.3#





#40

Benzene

Concen: 0.28 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampled :

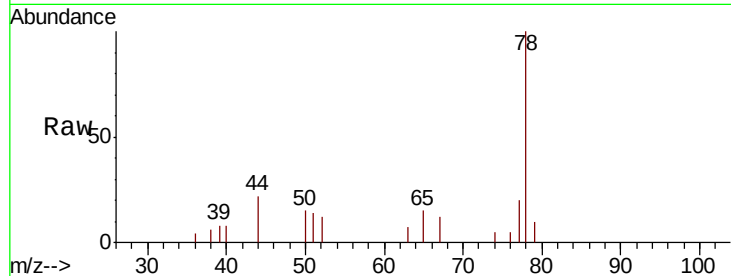
MW-3

Tot Ion: 78 Resp: 3444

Ion Ratio Lower Upper

78 100

77 20.2 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.15

1500

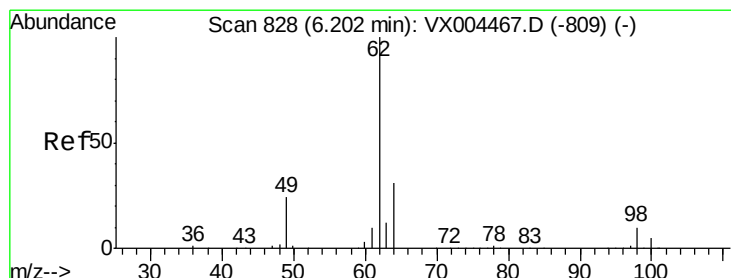
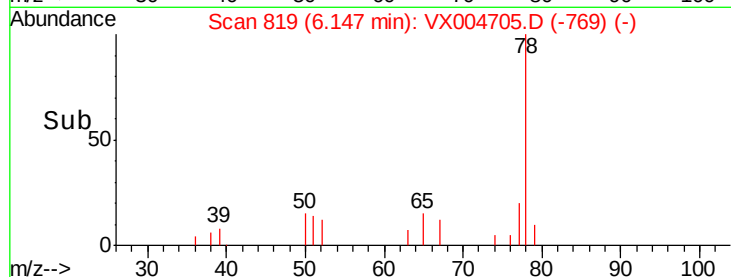
1000

500

0

6.05 6.10 6.15 6.20

Time-->



#42

1,2-Dichloroethane

Concen: 0.28 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.00 min

Lab File: VX004705.D

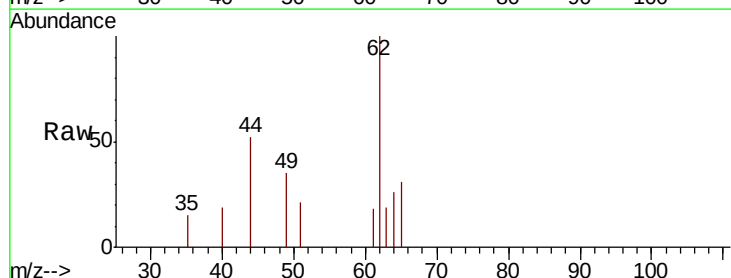
Acq: 19 Sep 2018 14:59

Tgt Ion: 62 Resp: 1165

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.20

500

400

300

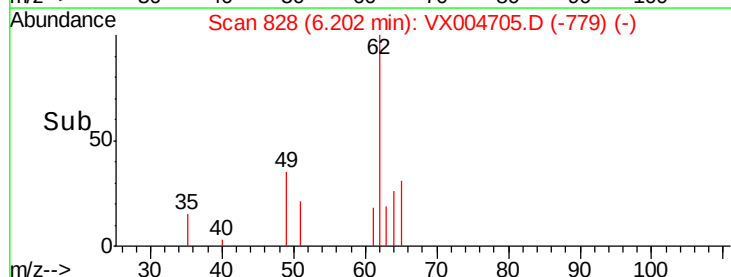
200

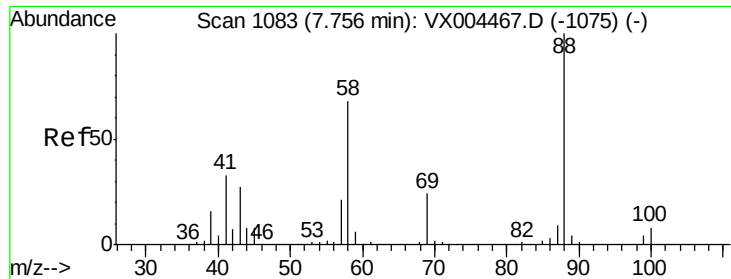
100

0

6.10 6.15 6.20 6.25

Time-->





#49

1,4-Dioxane

Concen: 22.64 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampled :

MW-3

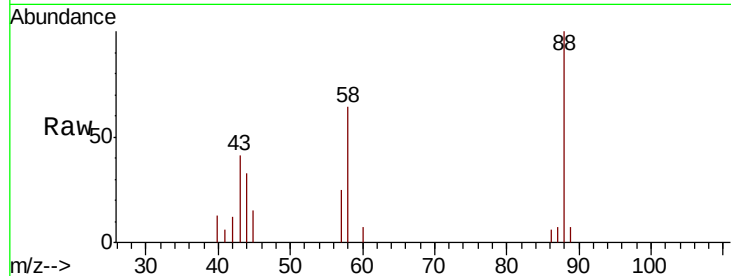
Tot Ion: 88 Resp: 1686

Ion Ratio Lower Upper

88 100

43 33.8 24.7 37.1

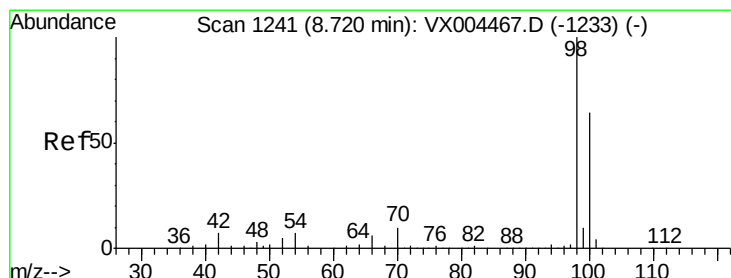
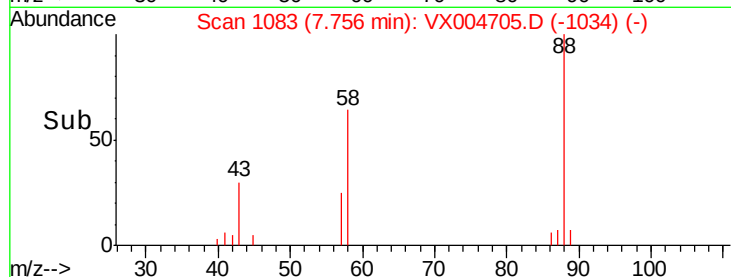
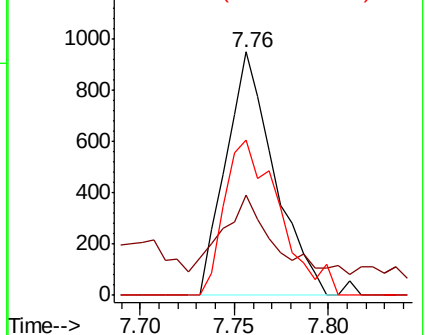
58 72.7 55.3 82.9



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: 43.66 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX004705.D

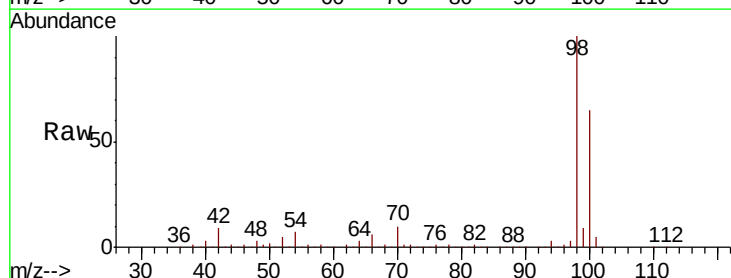
Acq: 19 Sep 2018 14:59

Tgt Ion: 98 Resp: 464552

Ion Ratio Lower Upper

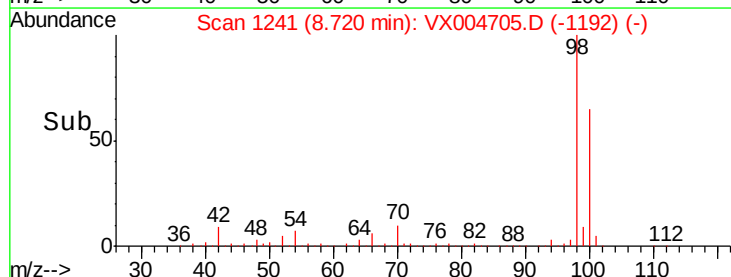
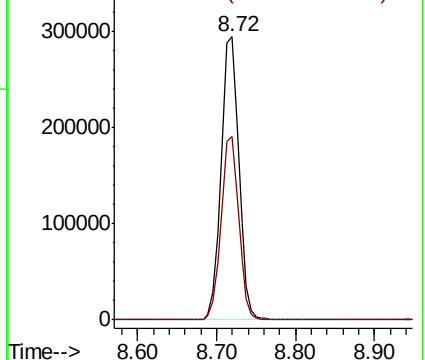
98 100

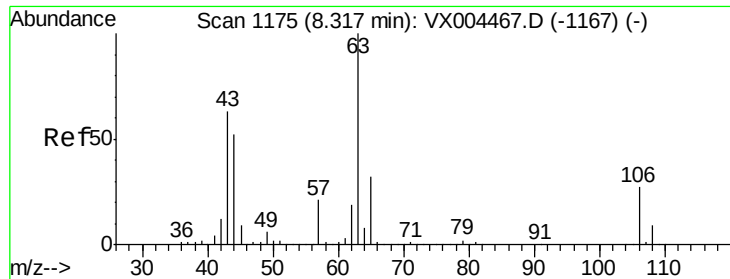
100 64.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#58

2-Chloroethyl Vinyl ether

Concen: 7.36 ug/l

RT: 8.37 min Scan# 1183

Delta R.T. 0.05 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampled :

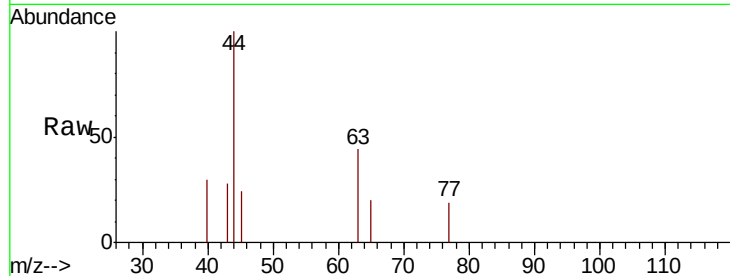
MW-3

Tot Ion: 63 Resp: 206

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

8.37

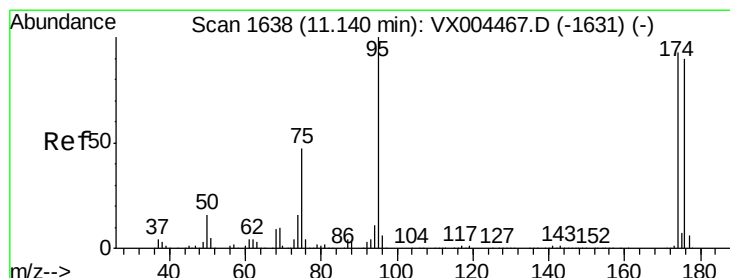
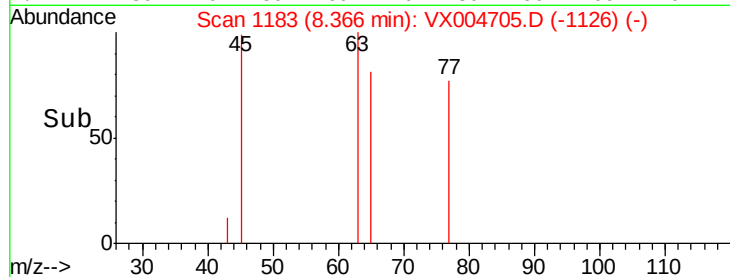
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 42.79 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

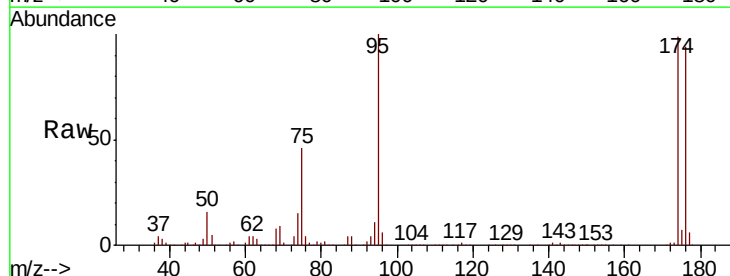
Tgt Ion: 95 Resp: 162514

Ion Ratio Lower Upper

95 100

174 95.4 0.0 185.2

176 91.9 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

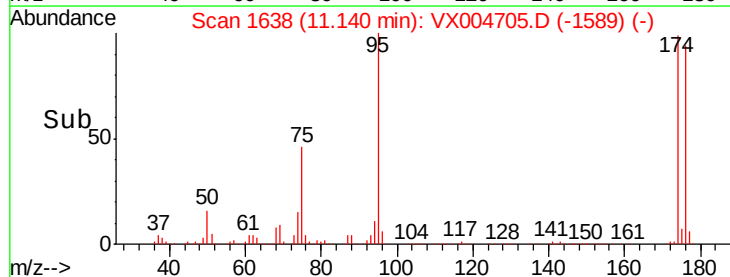
150000

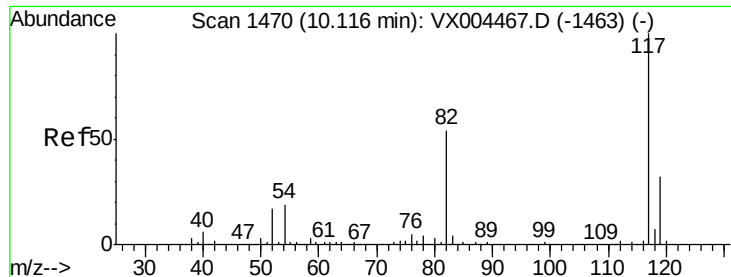
100000

50000

0

Time-->

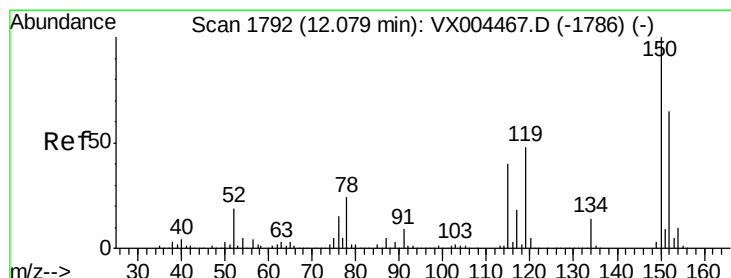
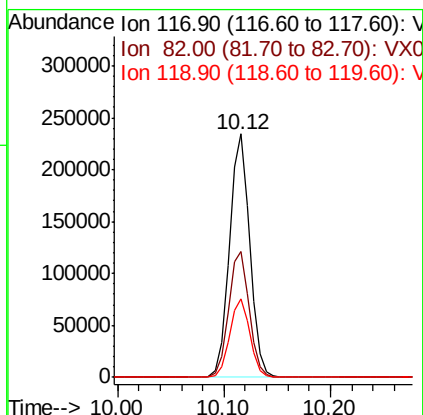
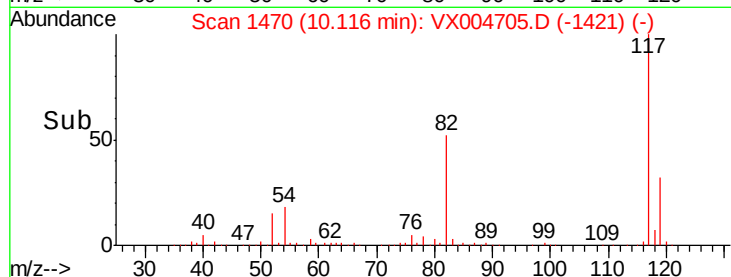
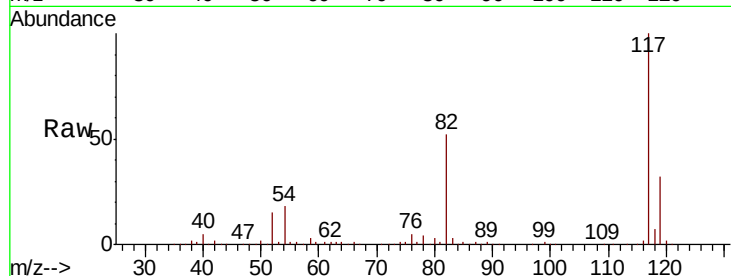




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004705.D
Acq: 19 Sep 2018 14:59

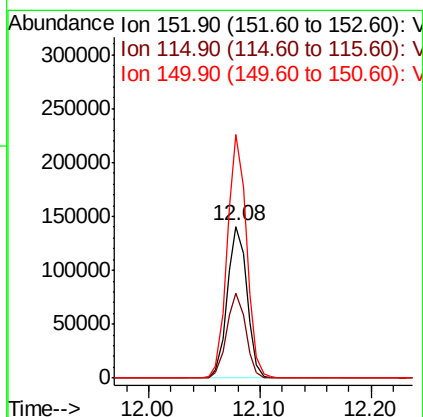
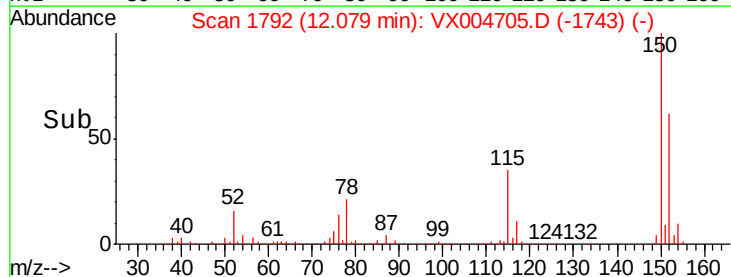
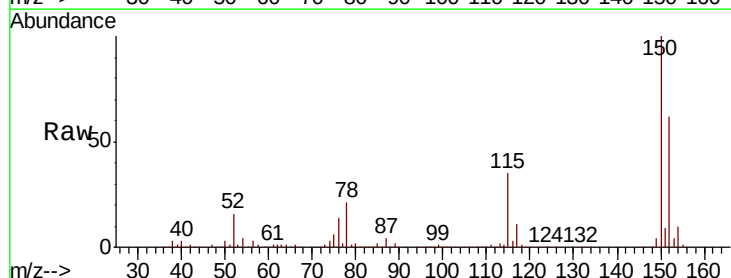
Instrument :
MSVOA_X
ClientSampleId :
MW-3

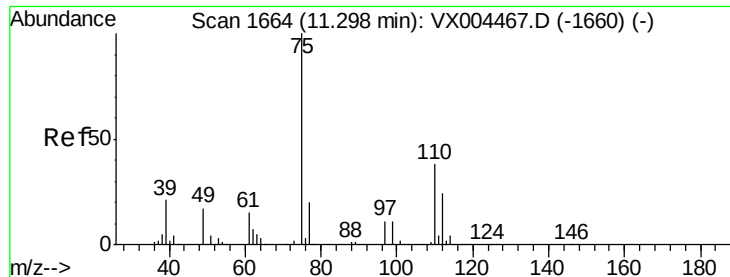
Tot Ion:117 Resp: 313479
Ion Ratio Lower Upper
117 100
82 51.8 47.8 71.6
119 32.3 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004705.D
Acq: 19 Sep 2018 14:59

Tgt Ion:152 Resp: 171535
Ion Ratio Lower Upper
152 100
115 54.5 39.0 117.0
150 157.5 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 21.60 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

Instrument :

MSVOA_X

ClientSampled :

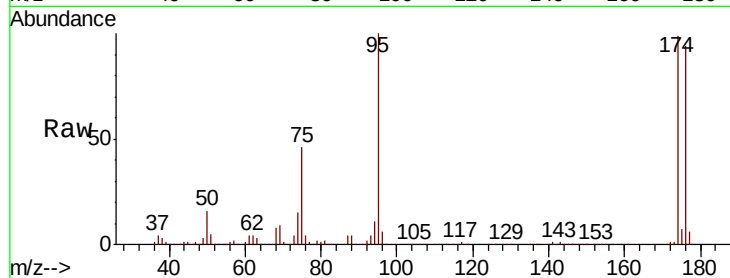
MW-3

Tot Ion: 75 Resp: 74545

Ion Ratio Lower Upper

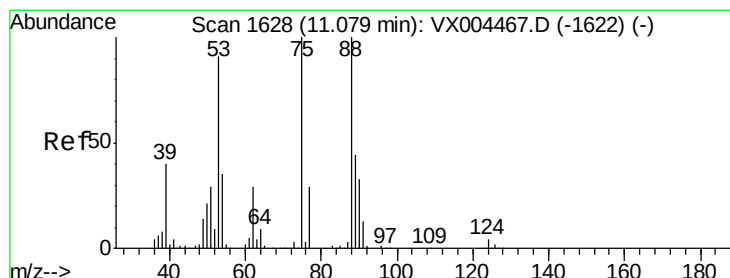
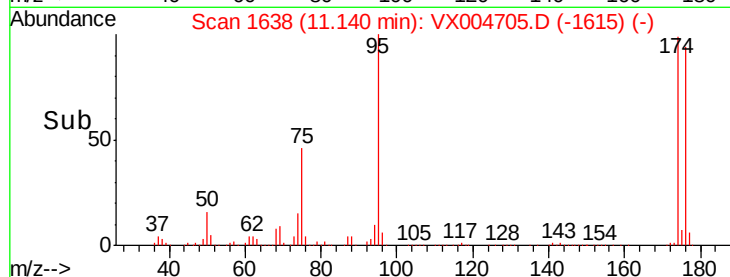
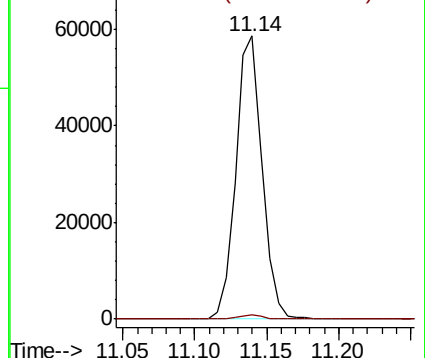
75 100

77 1.5 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 68.85 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004705.D

Acq: 19 Sep 2018 14:59

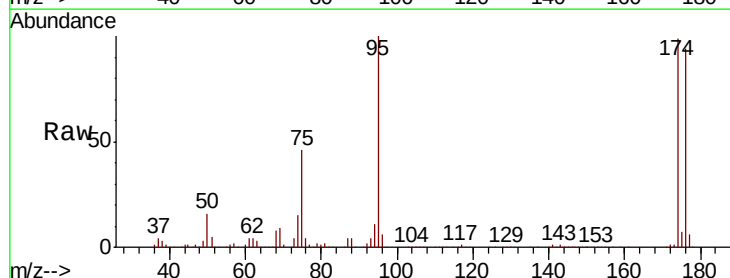
Tgt Ion: 75 Resp: 74545

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 1.2 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

