

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090418\
 Data File : VX004351.D
 Acq On : 04 Sep 2018 17:06
 Operator : JC/MD
 Sample : J4756-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WE-4

Quant Time: Sep 05 06:42:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	277291	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	440261	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	436871	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	242487	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	193640	53.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.16%	
35) Dibromofluoromethane	5.50	113	172462	52.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.32%	
50) Toluene-d8	8.71	98	639868	51.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.52%	
62) 4-Bromofluorobenzene	11.14	95	229969	49.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.70%	

Target Compounds

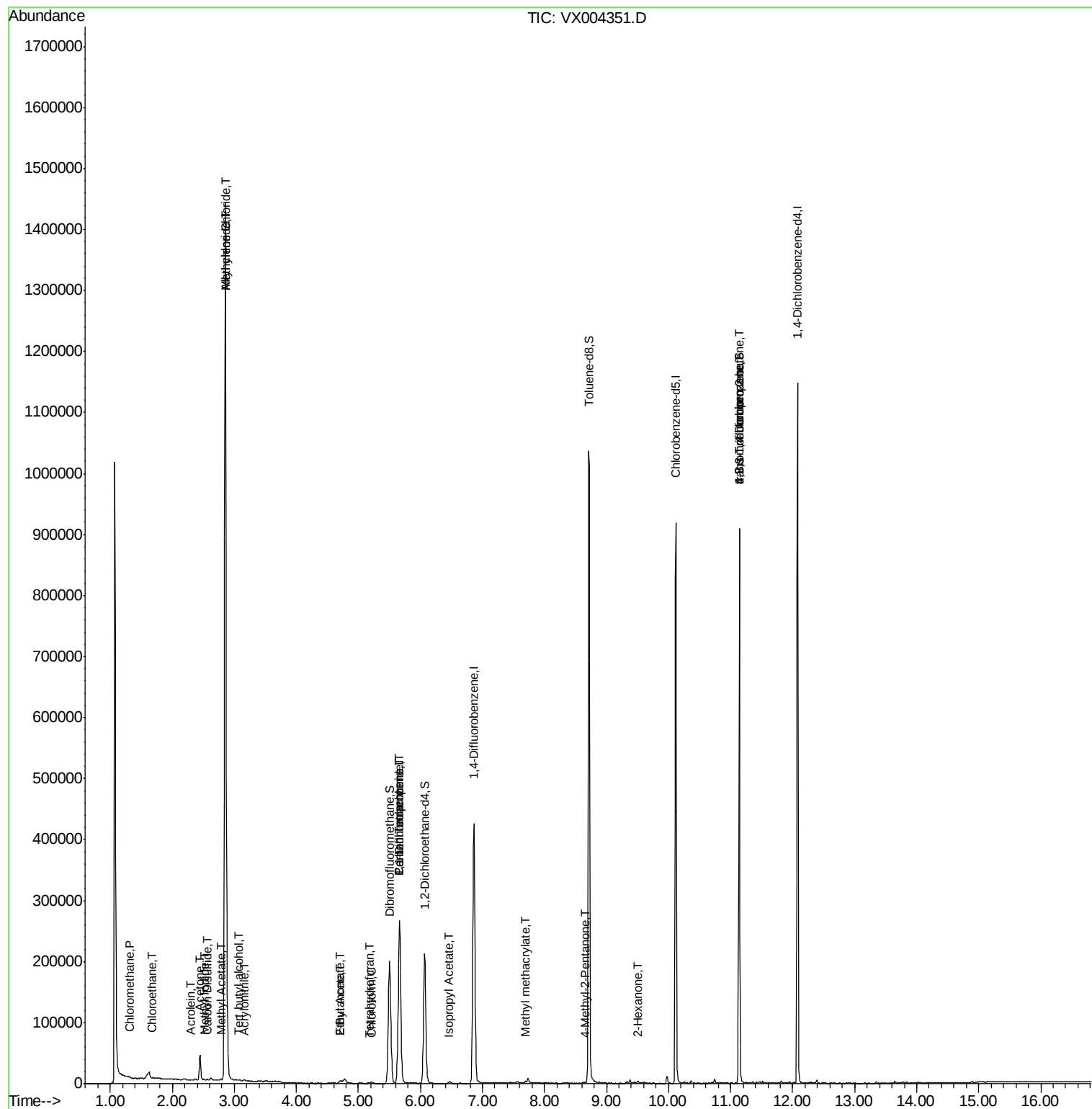
						Qvalue
3) Chloromethane	1.32	50	925	0.55	ug/l	90
5) Bromomethane	1.64	94	1382	Below	Cal	98
6) Chloroethane	1.68	64	8229	3.78	ug/l #	60
10) Methyl Iodide	2.51	142	1276	4.60	ug/l #	87
11) Tert butyl alcohol	3.07	59	1797	2.33	ug/l #	87
13) Acrolein	2.30	56	291	1.57	ug/l #	65
14) Allyl chloride	2.85	41	28199	5.22	ug/l #	28
15) Acrylonitrile	3.15	53	398	0.21	ug/l #	66
16) Acetone	2.45	43	42251	21.25	ug/l	99
17) Carbon Disulfide	2.56	76	1711	1.00	ug/l	99
18) Methyl Acetate	2.78	43	2019	0.38	ug/l	100
20) Methylene Chloride	2.85	84	687477	197.60	ug/l	98
25) 2-Butanone	4.71	43	8800	0.80	ug/l	99
29) Tetrahydrofuran	5.18	42	880	0.57	ug/l #	47
30) Chloroform	5.21	83	1985	0.34	ug/l	89
36) 1,1-Dichloropropene	5.66	75	18405	3.72	ug/l #	49
37) Ethyl Acetate	4.71	43	8800	1.81	ug/l #	68
38) Carbon Tetrachloride	5.66	117	24318	5.22	ug/l #	15
43) Isopropyl Acetate	6.46	43	3424	0.46	ug/l	97
48) Methyl methacrylate	7.69	41	3764	0.94	ug/l #	19
51) 4-Methyl-2-Pentanone	8.65	43	1645	0.30	ug/l	88
59) 2-Hexanone	9.51	43	2124	0.51	ug/l	88
76) 1,2,3-Trichloropropane	11.14	75	108077	21.91	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	108077	71.10	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampled :

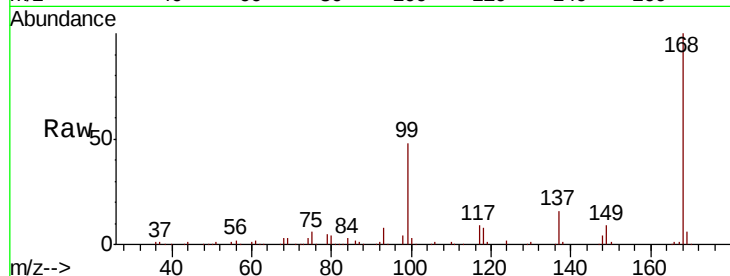
WE-4

Tot Ion:168 Resp: 277291

Ion Ratio Lower Upper

168 100

99 48.1 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

100000

80000

60000

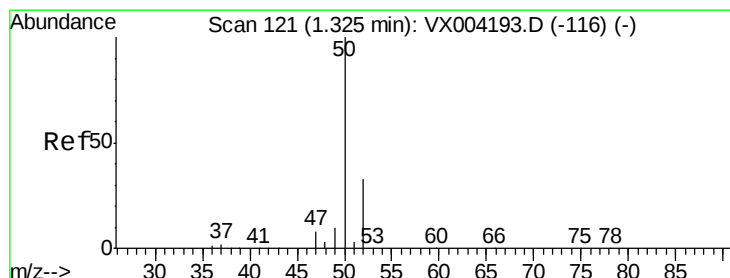
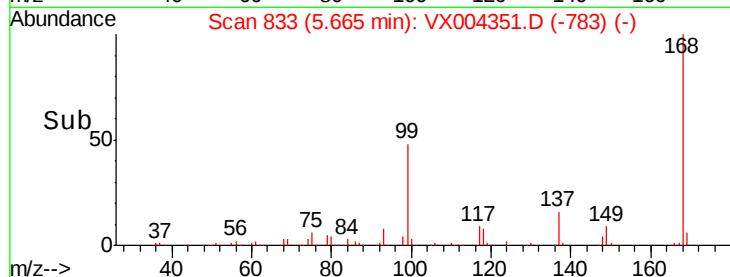
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.55 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004351.D

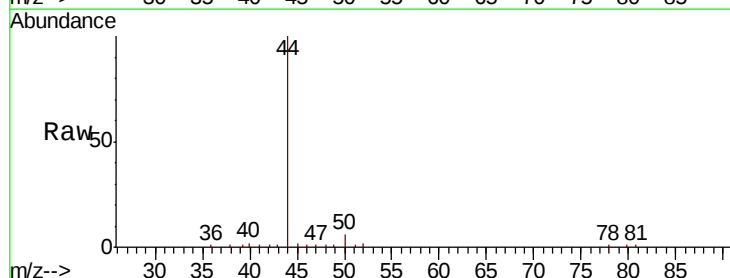
Acq: 04 Sep 2018 17:06

Tgt Ion: 50 Resp: 925

Ion Ratio Lower Upper

50 100

52 38.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

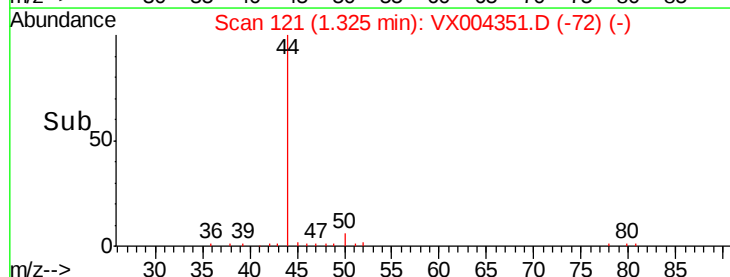
200

100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampled :

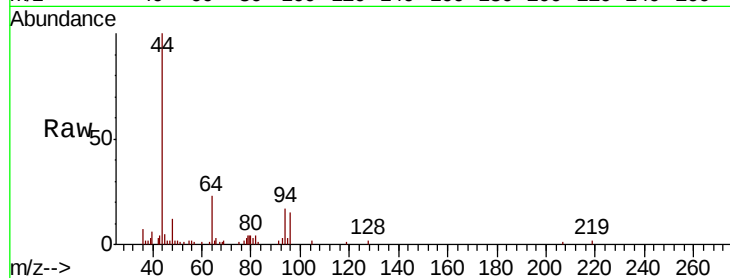
WE-4

Tot Ion: 94 Resp: 1382

Ion Ratio Lower Upper

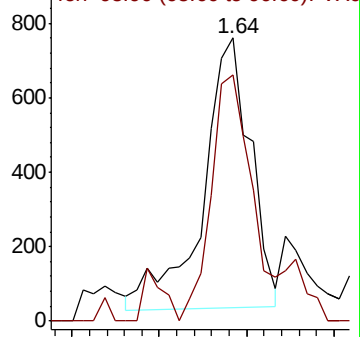
94 100

96 95.3 74.5 111.7

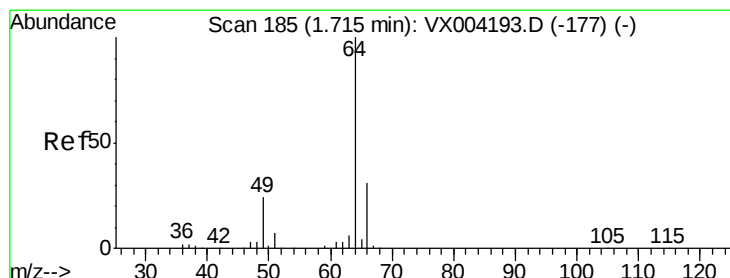
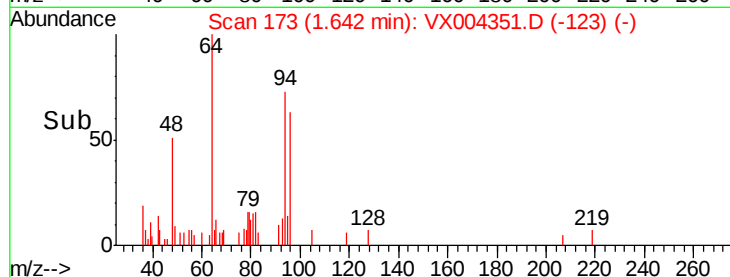


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 3.78 ug/l

RT: 1.68 min Scan# 179

Delta R.T. -0.04 min

Lab File: VX004351.D

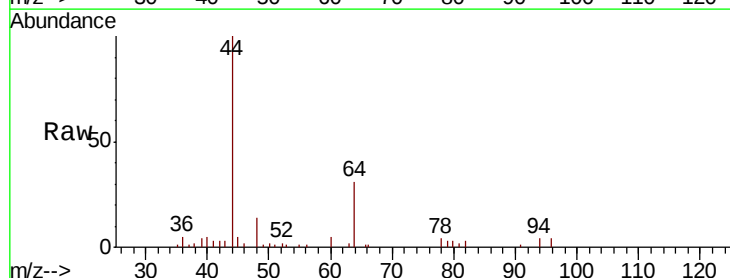
Acq: 04 Sep 2018 17:06

Tgt Ion: 64 Resp: 8229

Ion Ratio Lower Upper

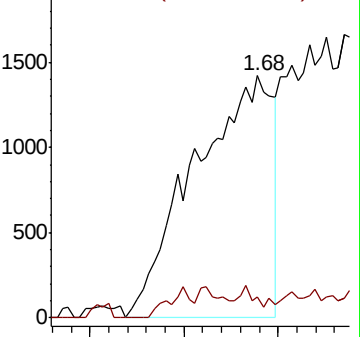
64 100

66 8.9 24.6 36.8#

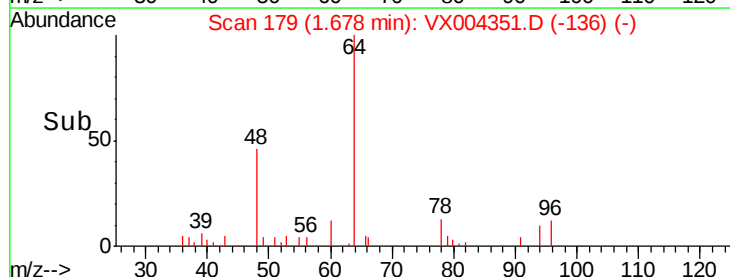


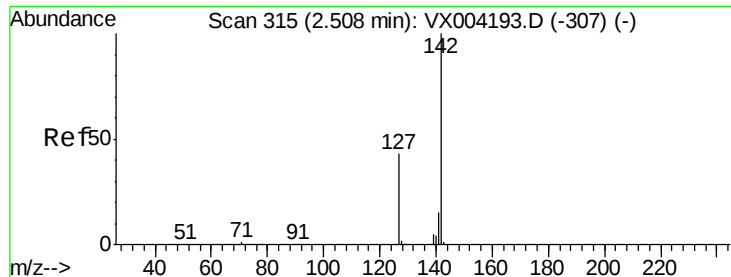
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

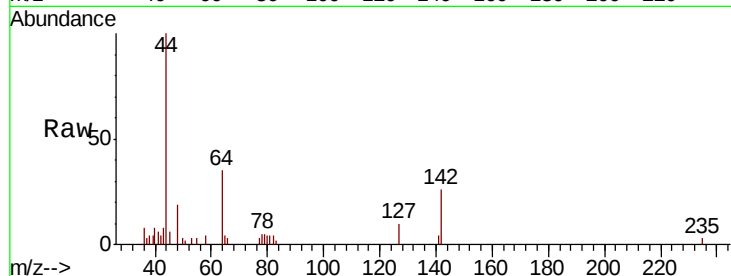




#10
Methvl Iodide
Concen: 4.60 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

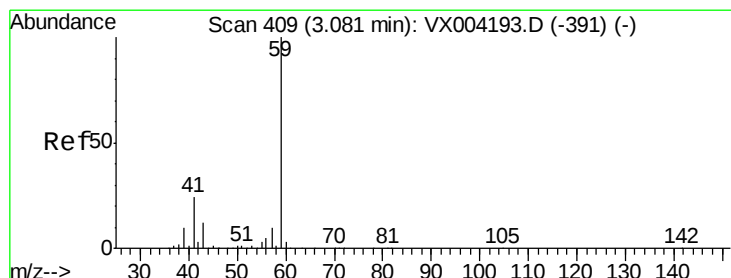
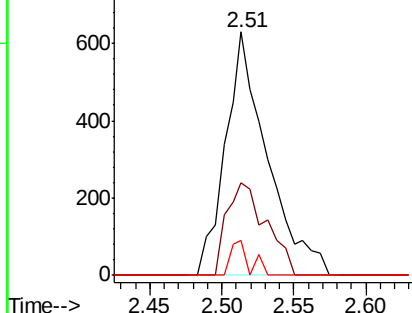
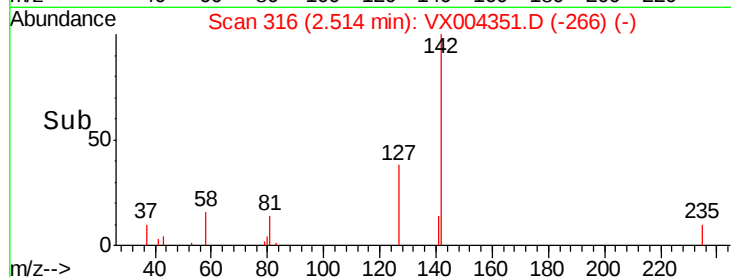
Instrument :
MSVOA_X
ClientSampled :
WE-4

Tot Ion:142 Resp: 1276
Ion Ratio Lower Upper
142 100
127 35.4 33.8 50.6
141 6.5 11.4 17.0#



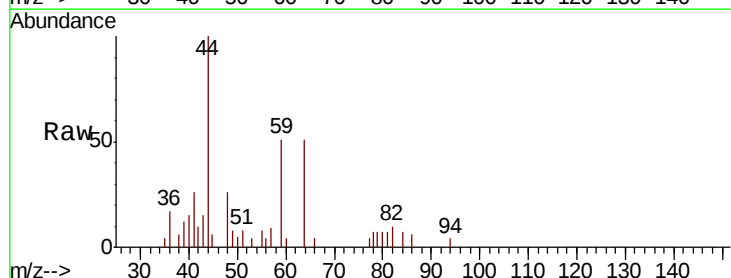
Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

2.51



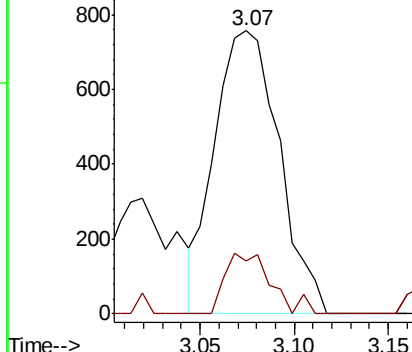
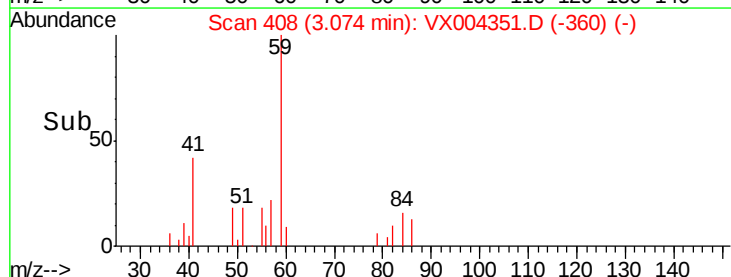
#11
Tert butyl alcohol
Concen: 2.33 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

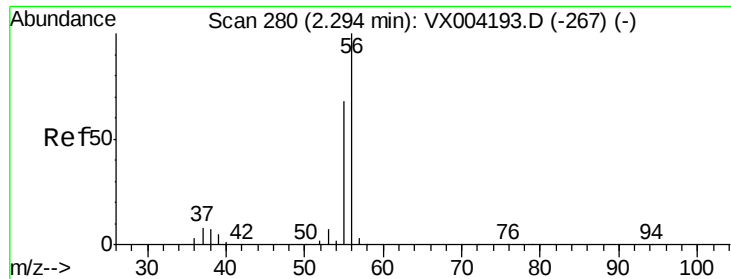
Tgt Ion: 59 Resp: 1797
Ion Ratio Lower Upper
59 100
57 15.3 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

3.07

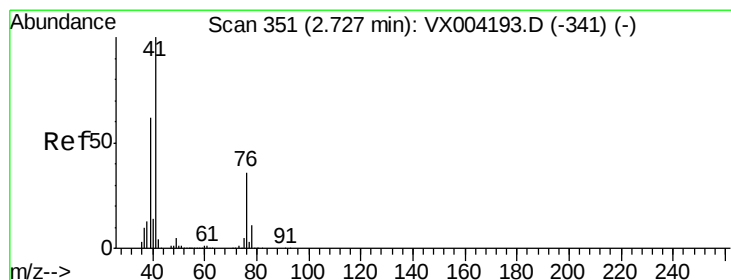
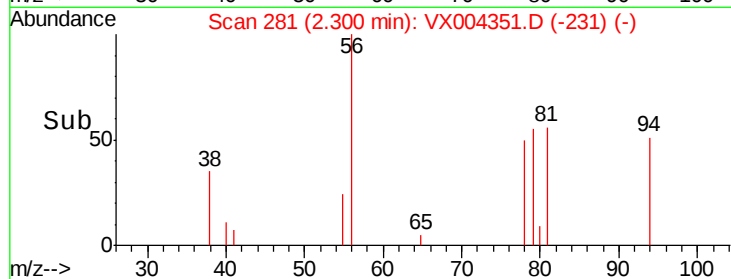
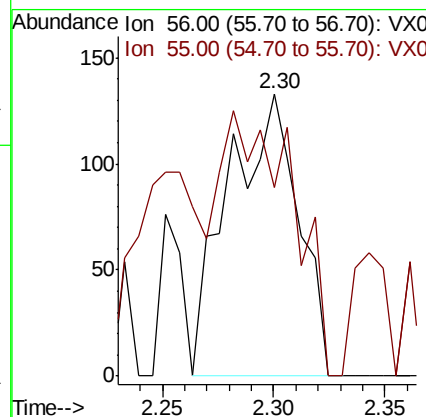
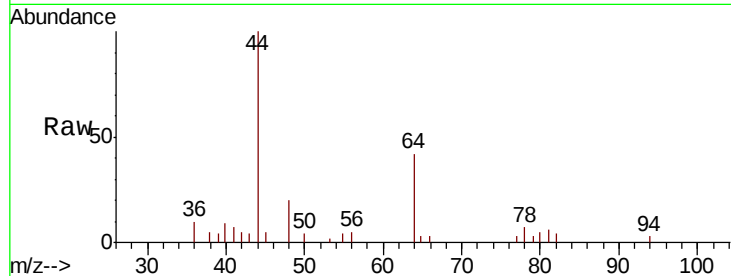




#13
 Acrolein
 Concen: 1.57 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX004351.D
 Acq: 04 Sep 2018 17:06

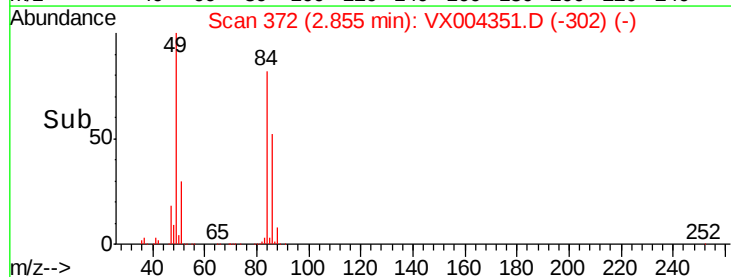
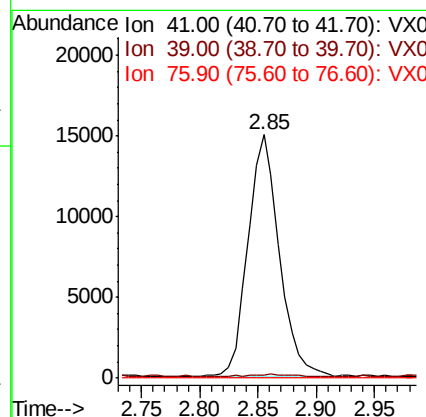
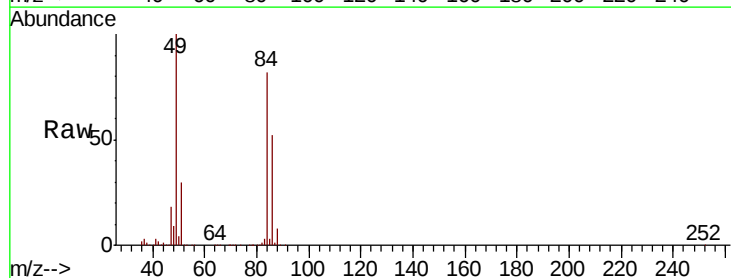
Instrument :
 MSVOA_X
 ClientSampled :
 WE-4

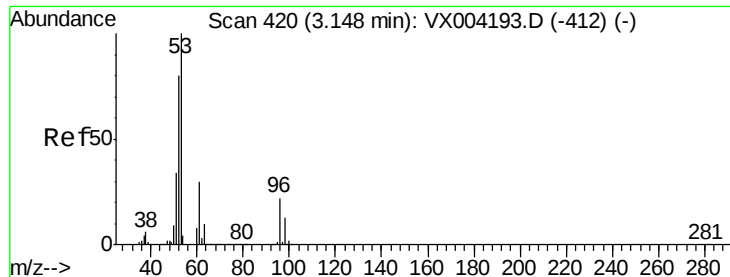
Tot Ion: 56 Resp: 291
 Ion Ratio Lower Upper
 56 100
 55 96.9 54.7 82.1#



#14
 Allyl chloride
 Concen: 5.22 ug/l
 RT: 2.85 min Scan# 372
 Delta R.T. 0.13 min
 Lab File: VX004351.D
 Acq: 04 Sep 2018 17:06

Tgt Ion: 41 Resp: 28199
 Ion Ratio Lower Upper
 41 100
 39 1.2 48.9 73.3#
 76 0.0 26.7 40.1#





#15

Acrylonitrile

Concen: 0.21 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.01 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampled :

WE-4

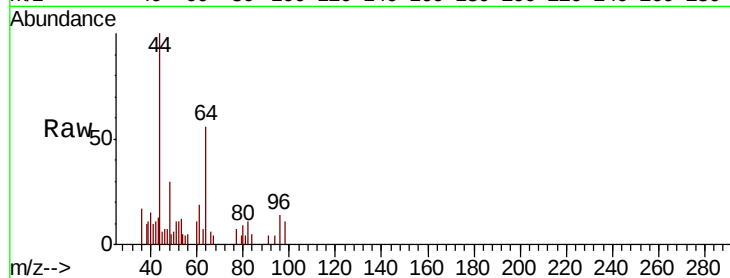
Tot Ion: 53 Resp: 398

Ion Ratio Lower Upper

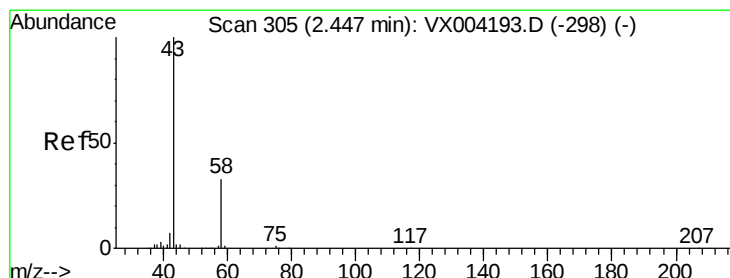
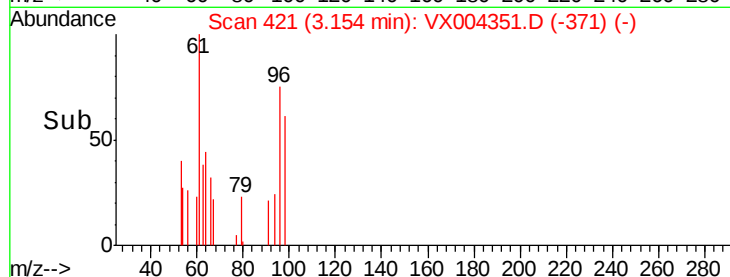
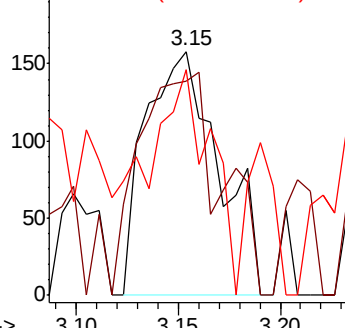
53 100

52 101.3 65.2 97.8#

51 0.0 28.2 42.2#



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: 21.25 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004351.D

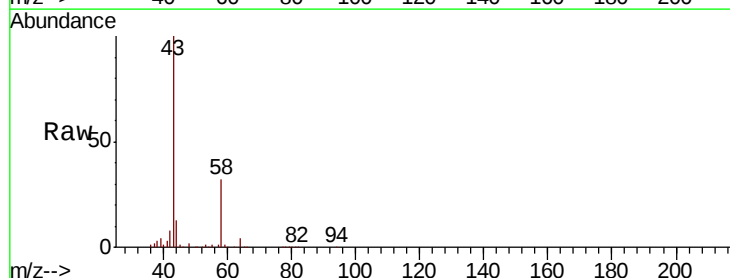
Acq: 04 Sep 2018 17:06

Tgt Ion: 43 Resp: 42251

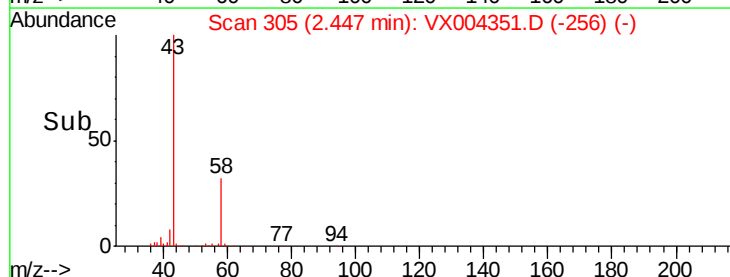
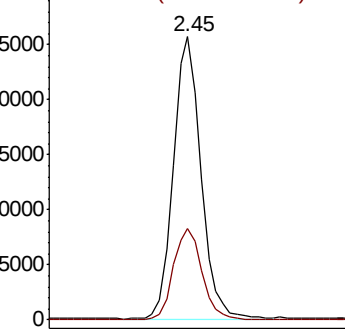
Ion Ratio Lower Upper

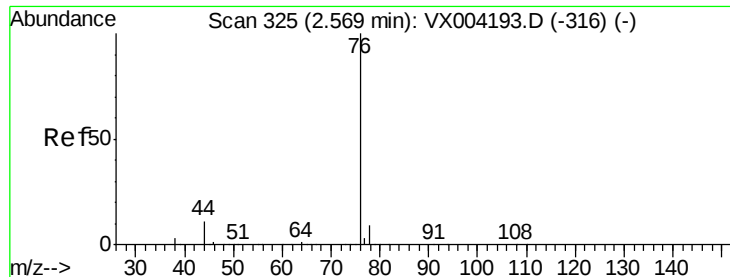
43 100

58 32.4 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

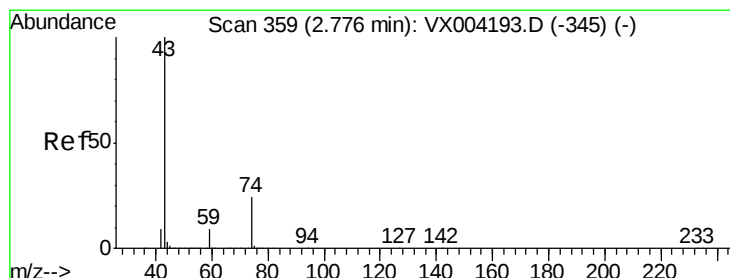
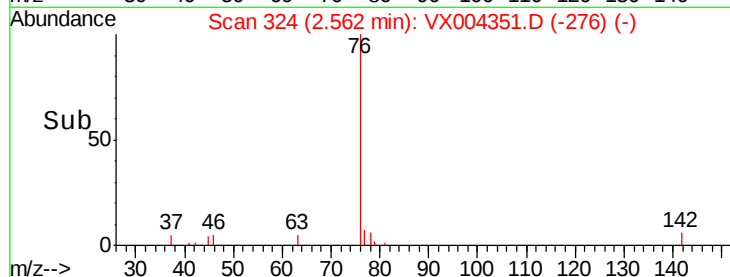
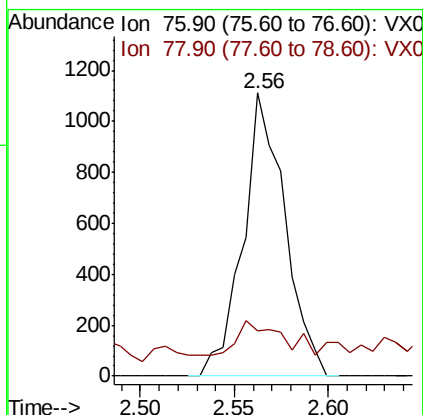
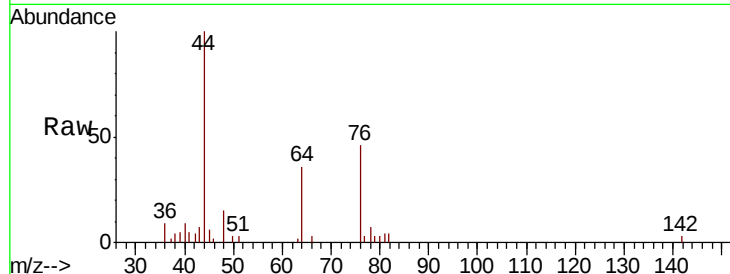




#17
Carbon Disulfide
Concen: 1.00 ug/l
RT: 2.56 min Scan# 324
Delta R.T. -0.01 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

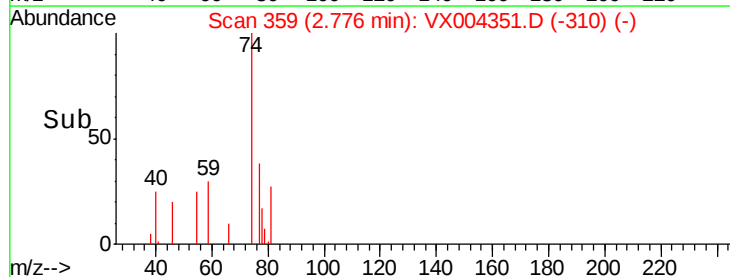
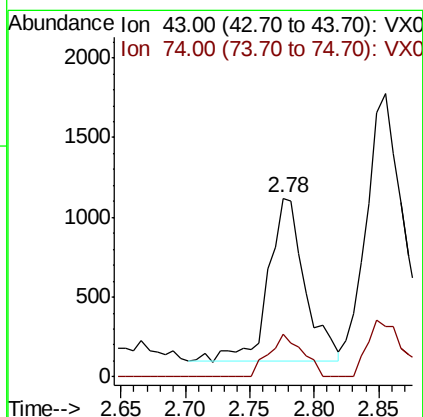
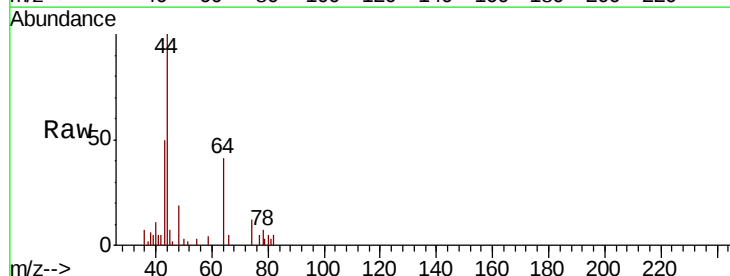
Instrument :
MSVOA_X
ClientSampled :
WE-4

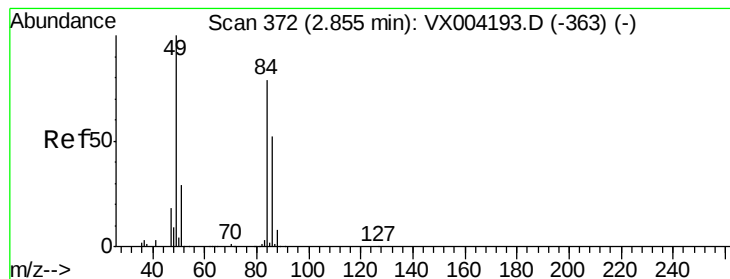
Tot Ion: 76 Resp: 1711
Ion Ratio Lower Upper
76 100
78 8.4 7.0 10.6



#18
Methyl Acetate
Concen: 0.38 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.00 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

Tgt Ion: 43 Resp: 2019
Ion Ratio Lower Upper
43 100
74 24.4 19.4 29.2





#20

Methylene Chloride

Concen: 197.60 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampled :

WE-4

Tot Ion: 84 Resp: 687477

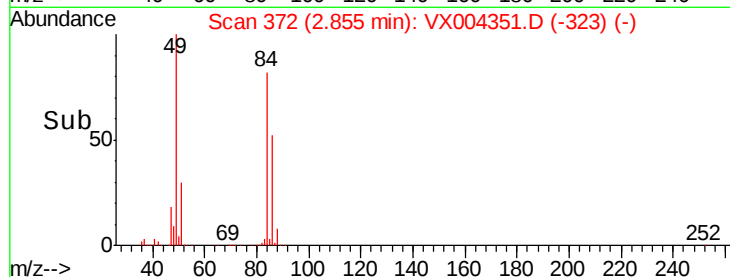
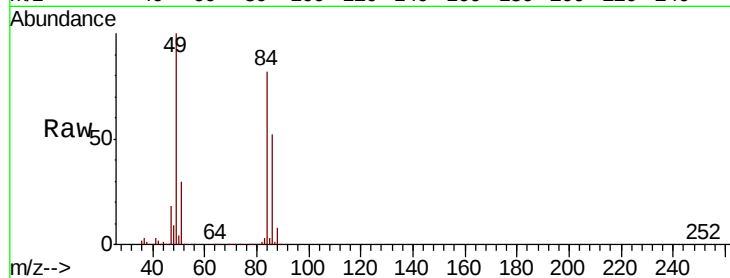
Ion Ratio Lower Upper

84 100

49 122.6 101.2 151.8

51 37.0 29.5 44.3

86 64.1 52.3 78.5

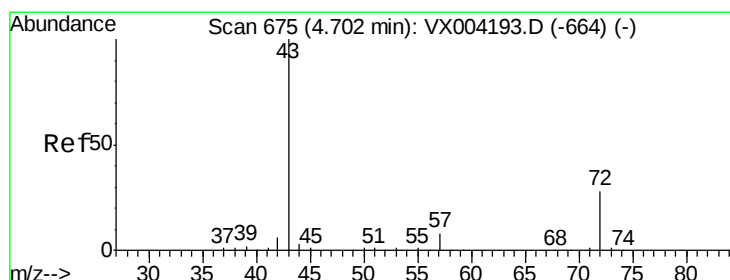
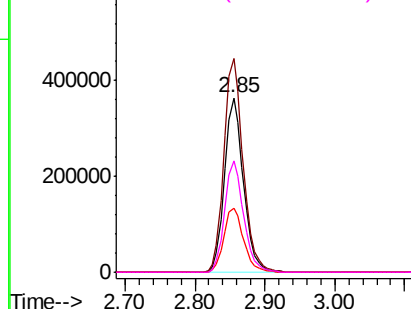


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.80 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX004351.D

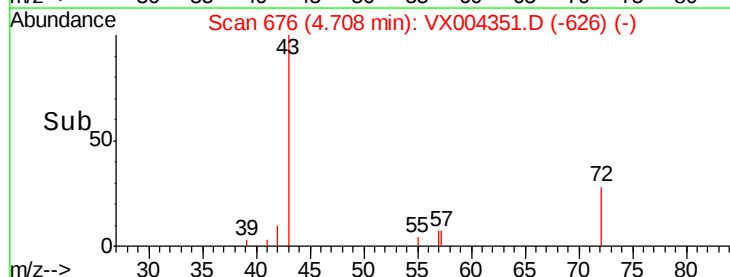
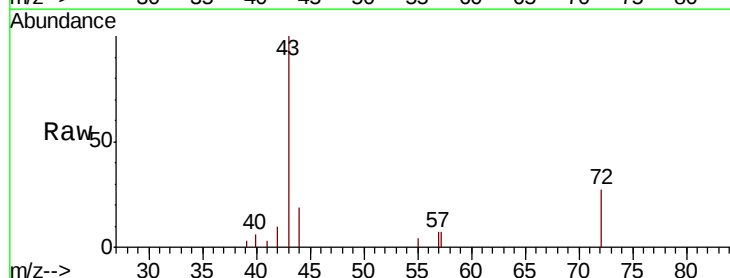
Acq: 04 Sep 2018 17:06

Tgt Ion: 43 Resp: 8800

Ion Ratio Lower Upper

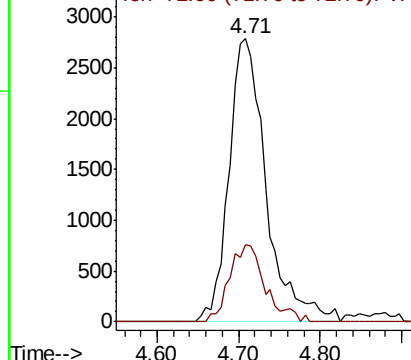
43 100

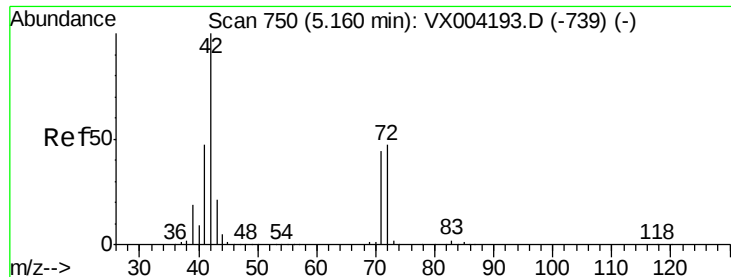
72 27.1 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



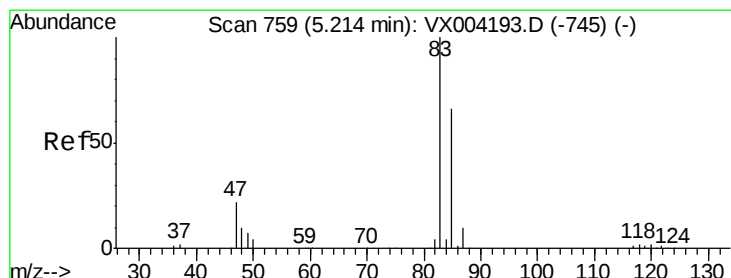
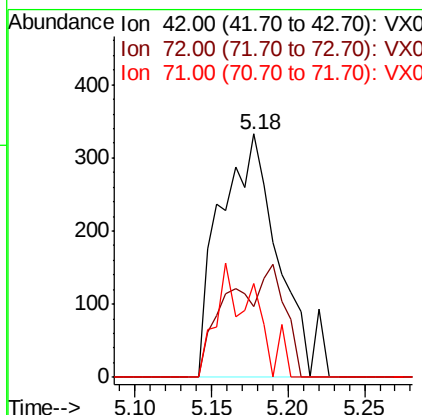
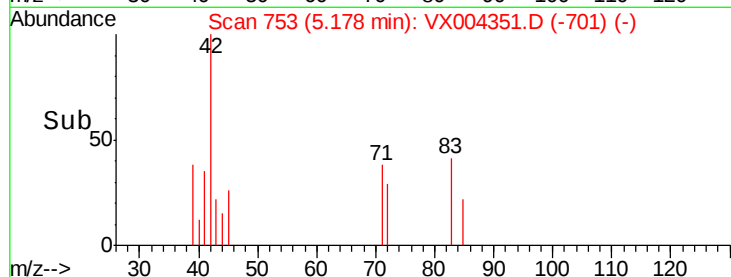
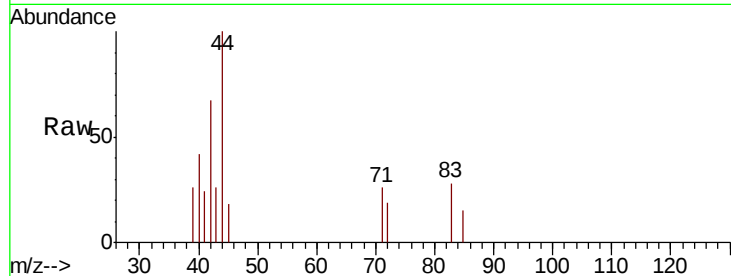


#29
Tetrahydrofuran
Concen: 0.57 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.02 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

Instrument :
MSVOA_X
ClientSampled :
WE-4

Tot Ion: 42 Resp: 880

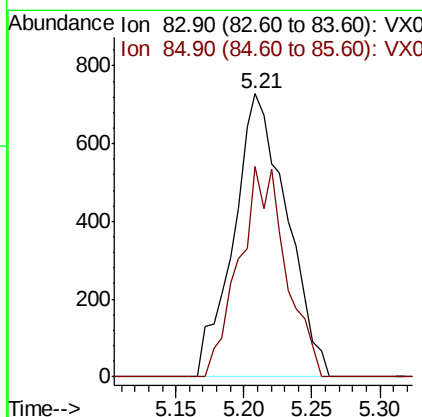
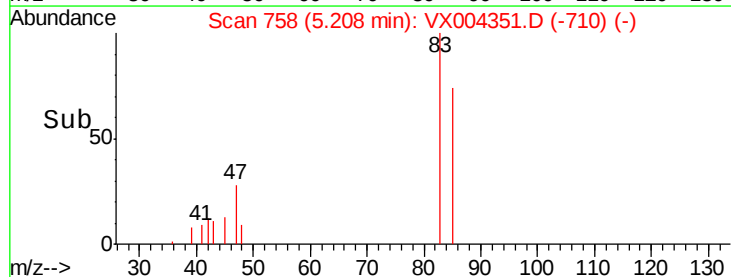
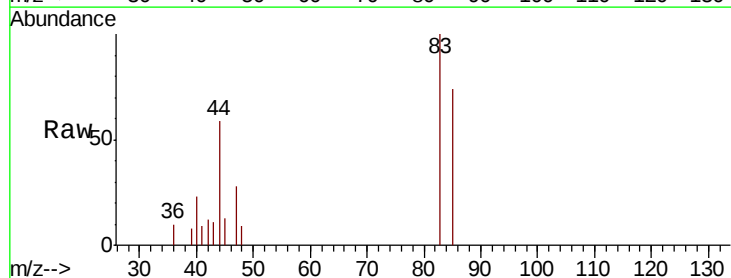
Ion	Ratio	Lower	Upper
42	100		
72	19.7	37.4	56.0#
71	0.0	34.5	51.7#

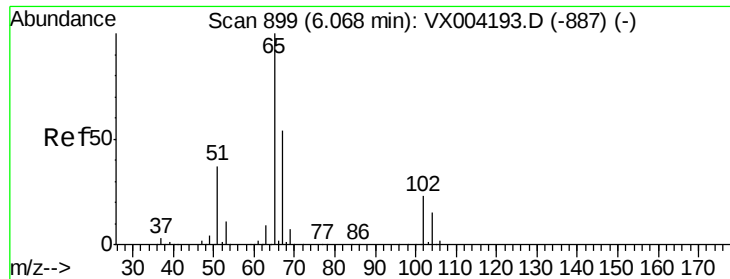


#30
Chloroform
Concen: 0.34 ug/l
RT: 5.21 min Scan# 758
Delta R.T. -0.01 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

Tgt Ion: 83 Resp: 1985

Ion	Ratio	Lower	Upper
83	100		
85	74.5	52.6	79.0





#33

1,2-Dichloroethane-d4

Concen: 53.58 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

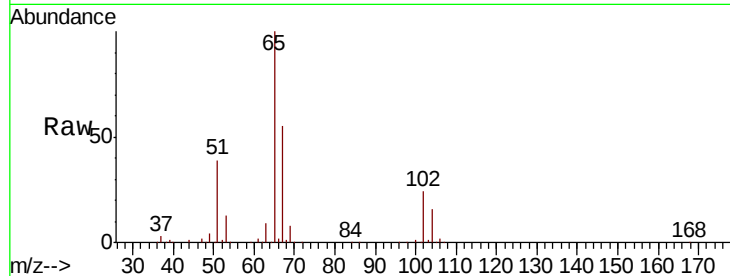
WE-4

Tot Ion: 65 Resp: 193640

Ion Ratio Lower Upper

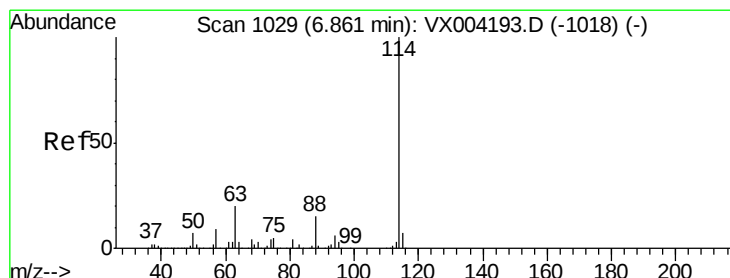
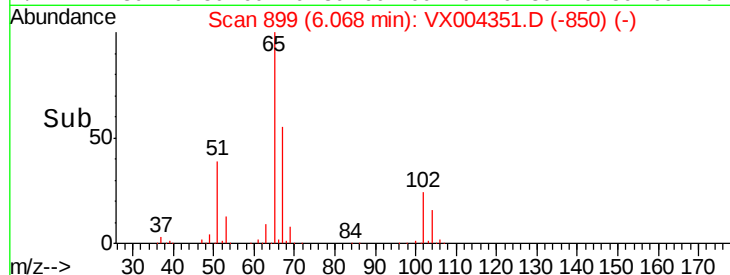
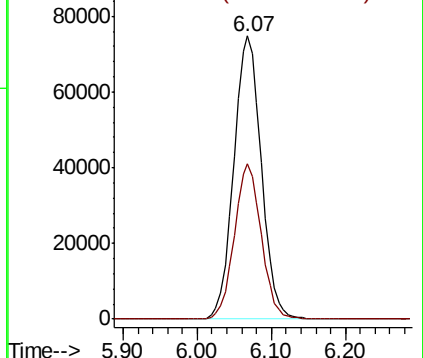
65 100

67 53.6 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# 1029

Delta R.T. -0.00 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

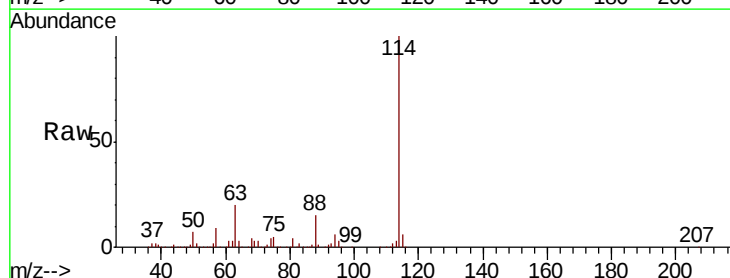
Tgt Ion: 114 Resp: 440261

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.0

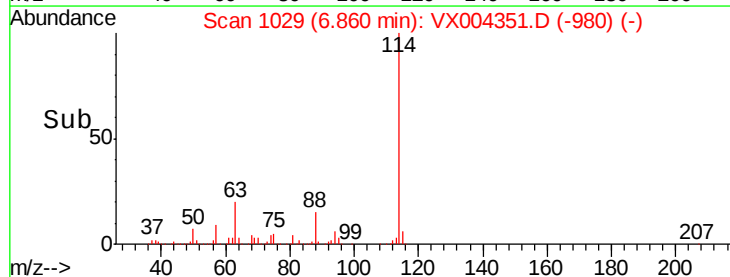
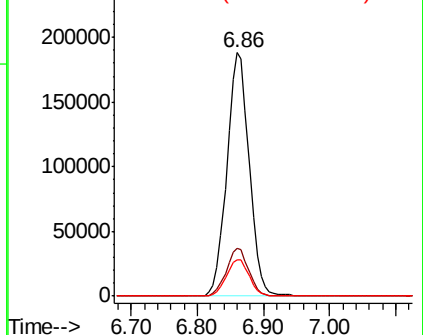
88 15.0 0.0 30.4

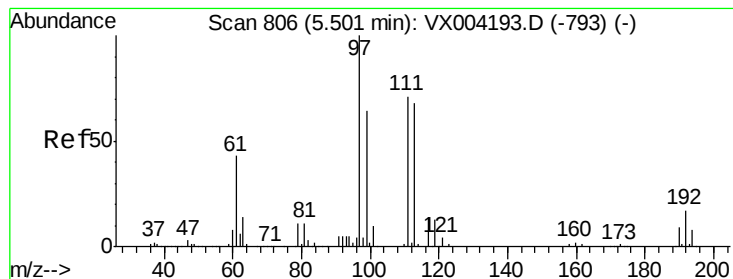


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 52.66 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

WE-4

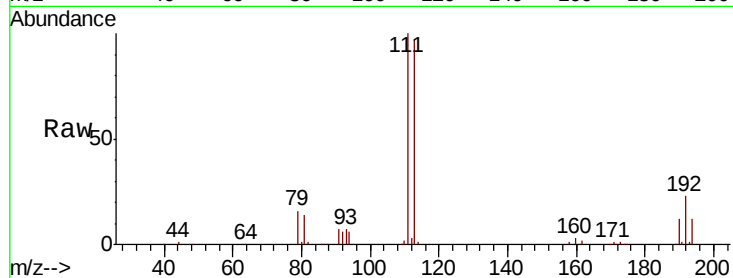
Tot Ion:113 Resp: 172462

Ion Ratio Lower Upper

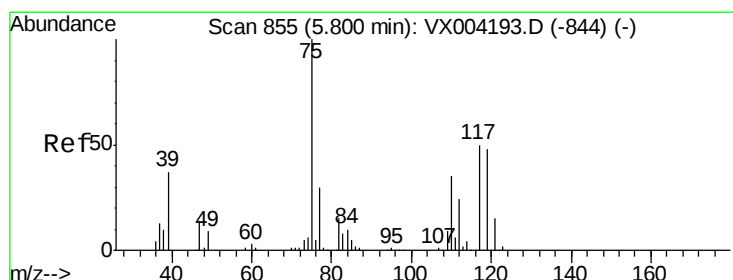
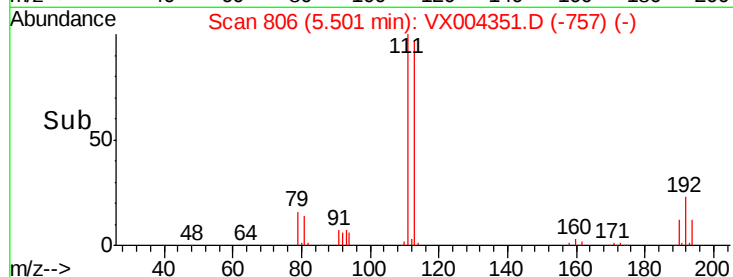
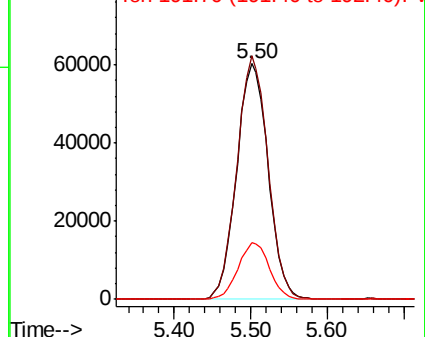
113 100

111 101.9 82.4 123.6

192 23.9 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: 3.72 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

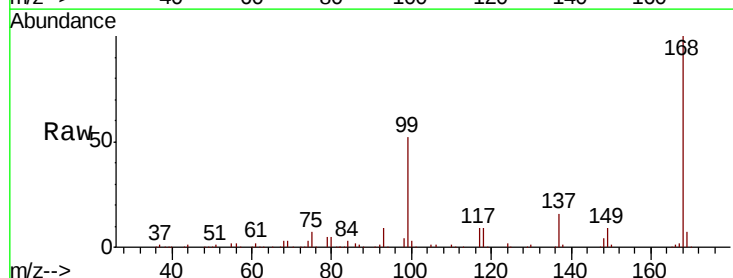
Tgt Ion: 75 Resp: 18405

Ion Ratio Lower Upper

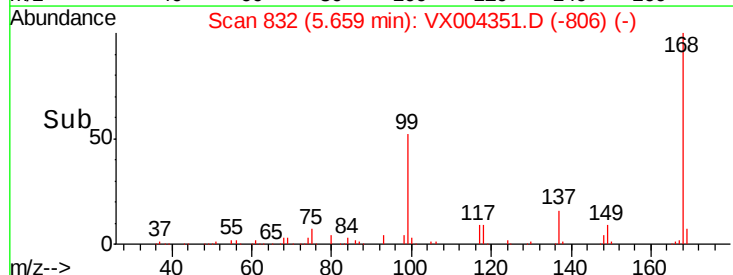
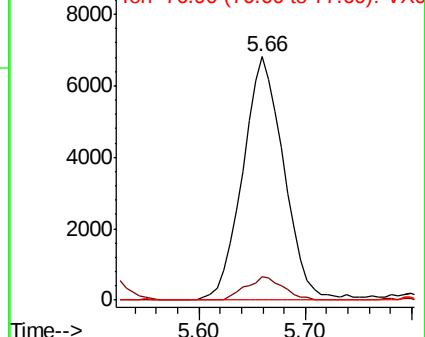
75 100

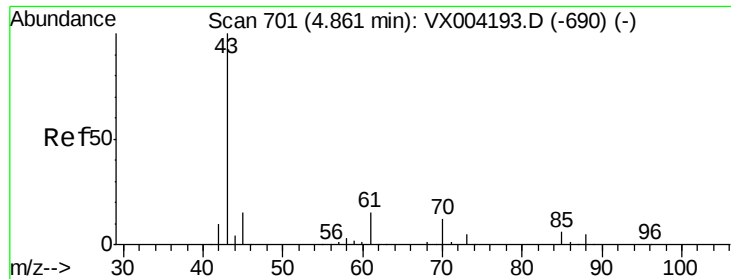
110 8.7 18.0 54.0#

77 0.0 24.6 36.8#



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





#37

Ethyl Acetate

Concen: 1.81 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.15 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

WE-4

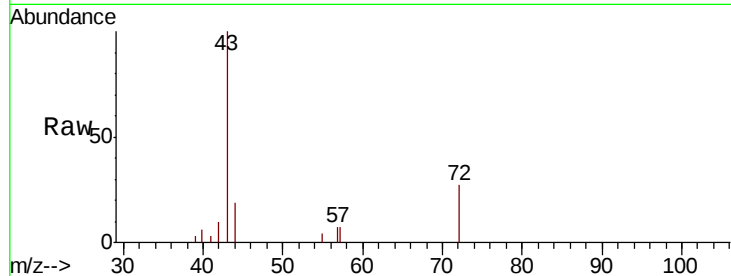
Tot Ion: 43 Resp: 8800

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

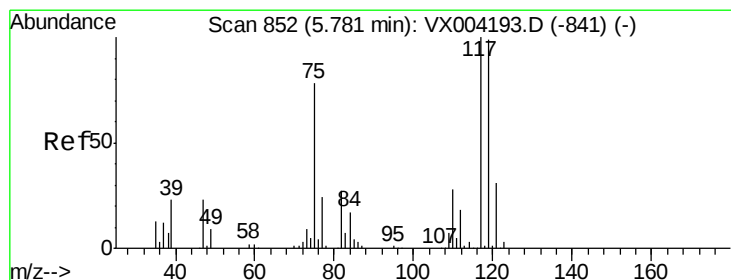
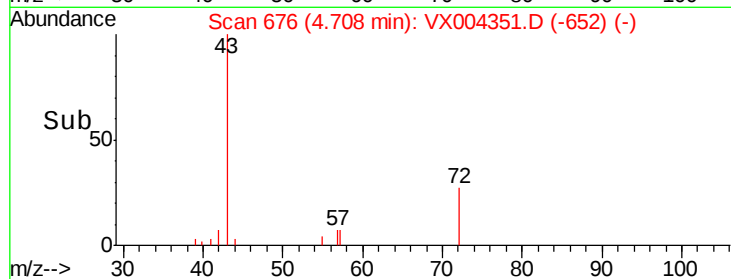
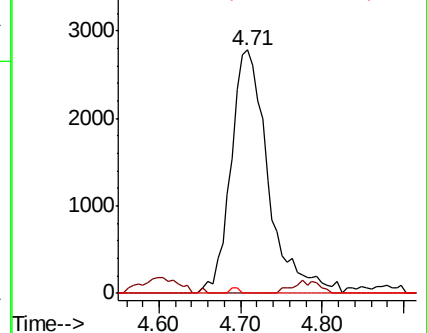
70 0.6 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.22 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

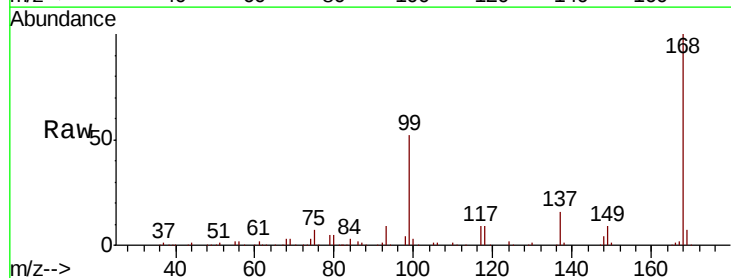
Tgt Ion: 117 Resp: 24318

Ion Ratio Lower Upper

117 100

119 5.1 78.8 118.2#

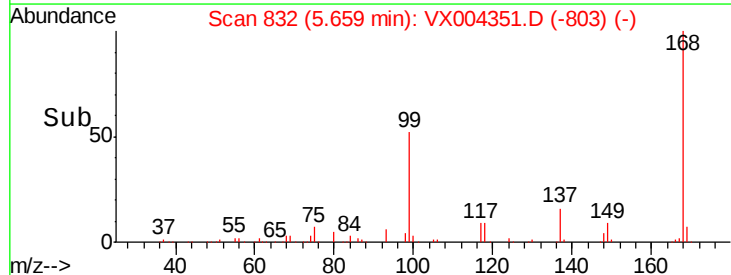
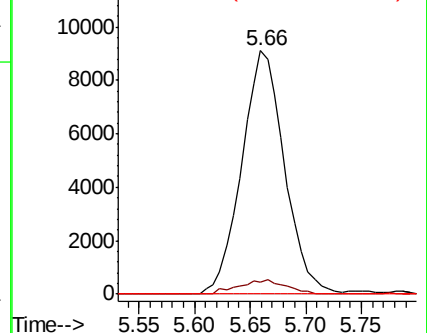
121 0.0 24.9 37.3#

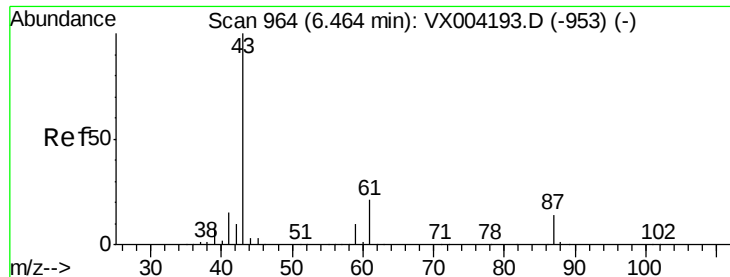


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 0.46 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.00 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

WE-4

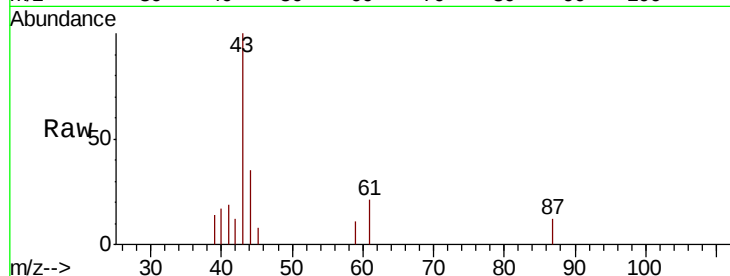
Tot Ion: 43 Resp: 3424

Ion Ratio Lower Upper

43 100

61 22.3 17.0 25.4

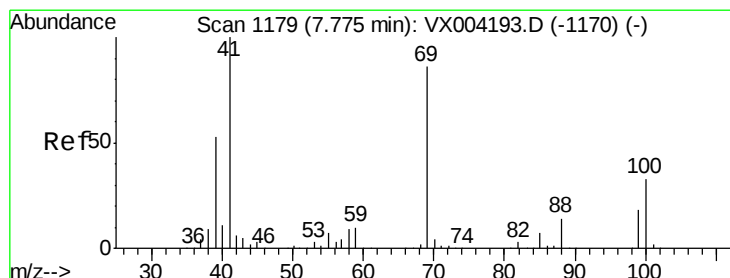
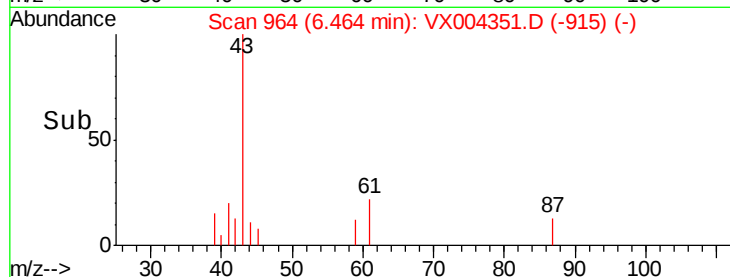
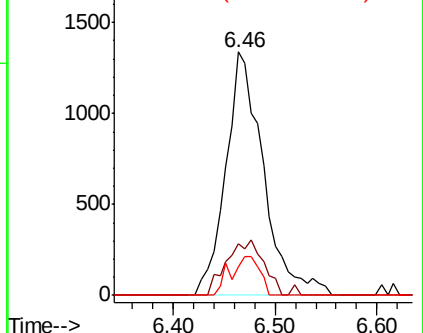
87 12.5 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 0.94 ug/l

RT: 7.69 min Scan# 1165

Delta R.T. -0.09 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

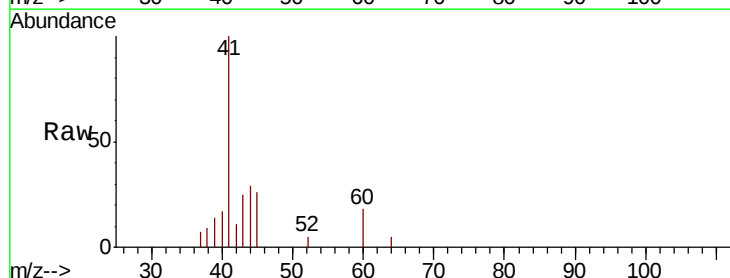
Tgt Ion: 41 Resp: 3764

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

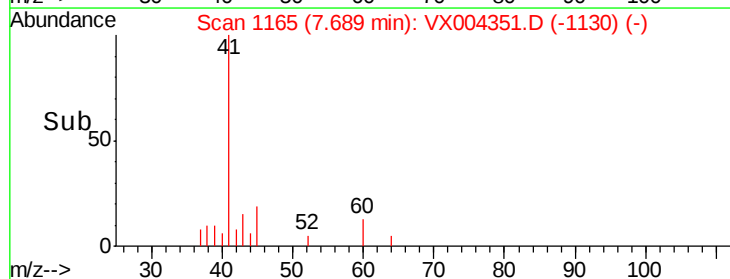
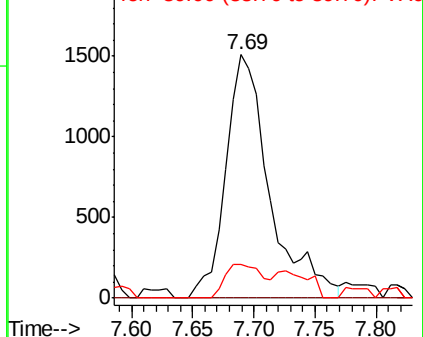
39 12.0 42.7 64.1#

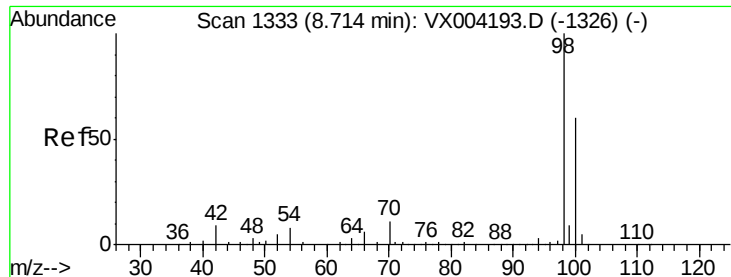


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 51.76 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampled :

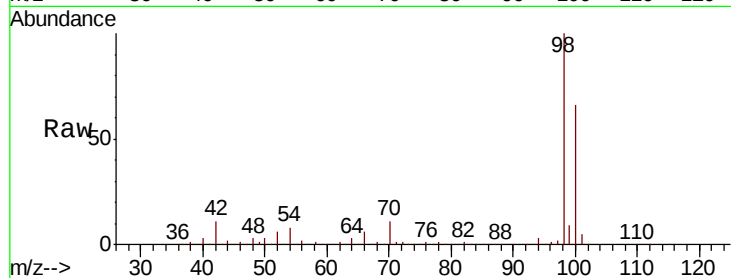
WE-4

Tot Ion: 98 Resp: 639868

Ion Ratio Lower Upper

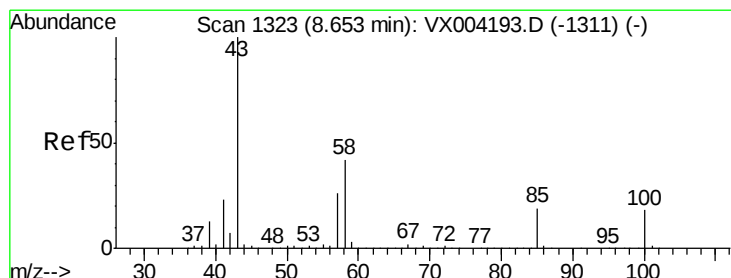
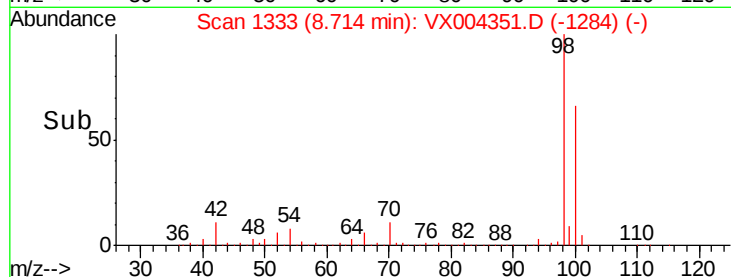
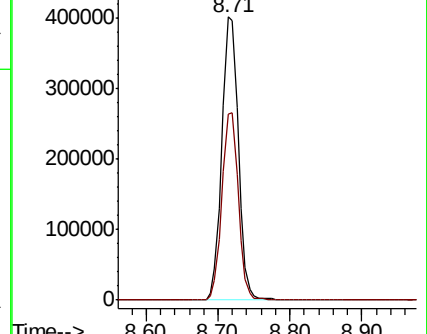
98 100

100 65.5 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.30 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX004351.D

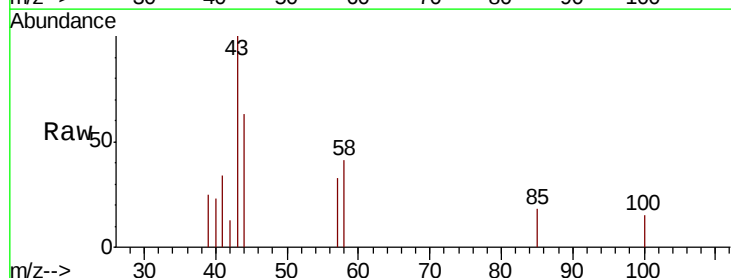
Acq: 04 Sep 2018 17:06

Tgt Ion: 43 Resp: 1645

Ion Ratio Lower Upper

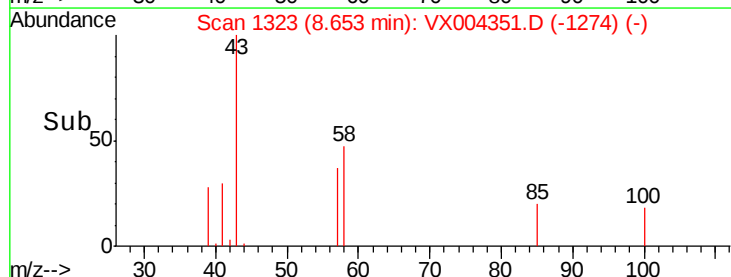
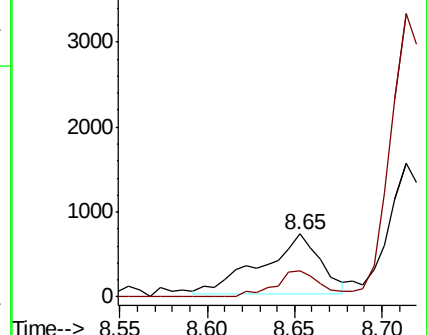
43 100

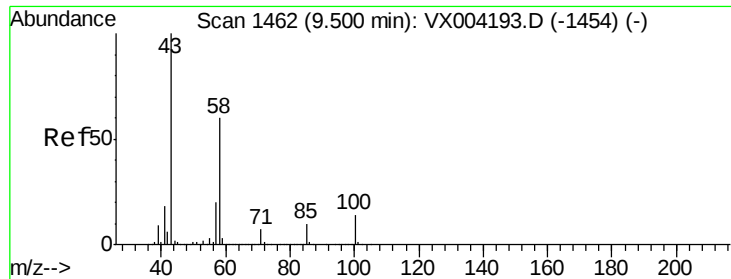
58 33.6 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

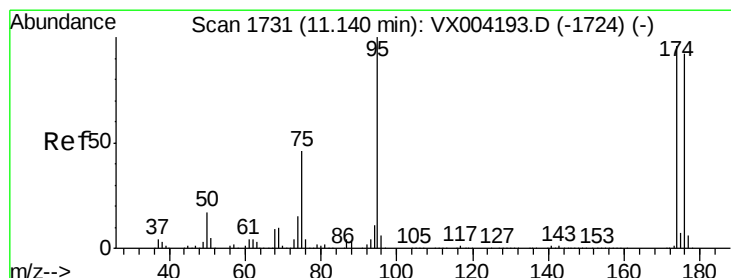
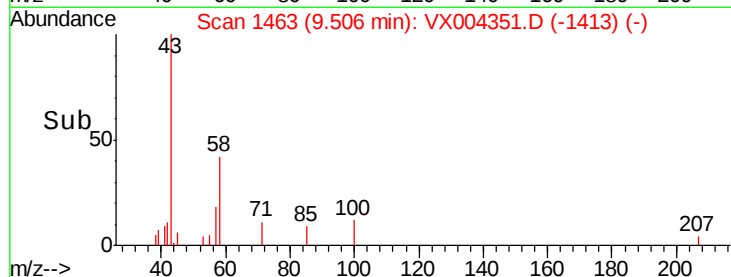
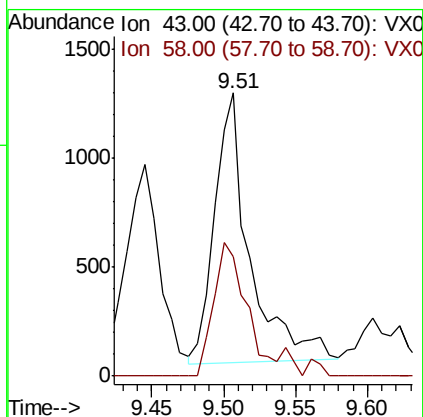
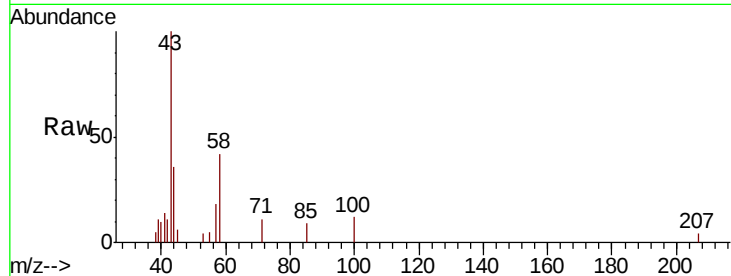




#59
2-Hexanone
Concen: 0.51 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. 0.01 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

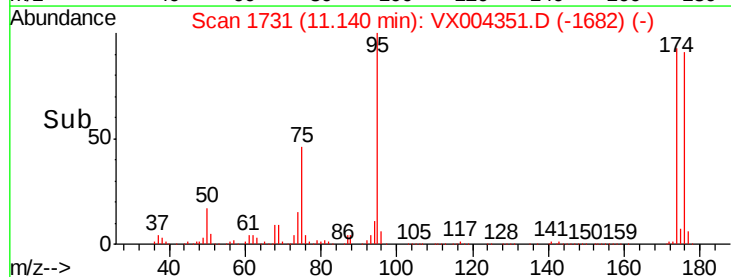
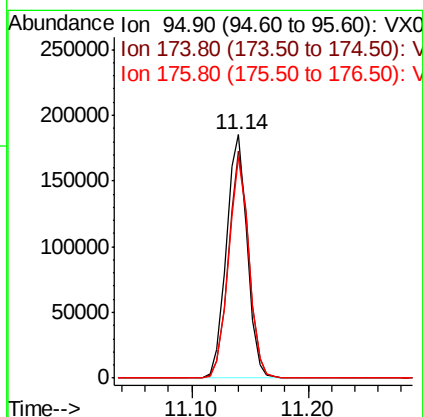
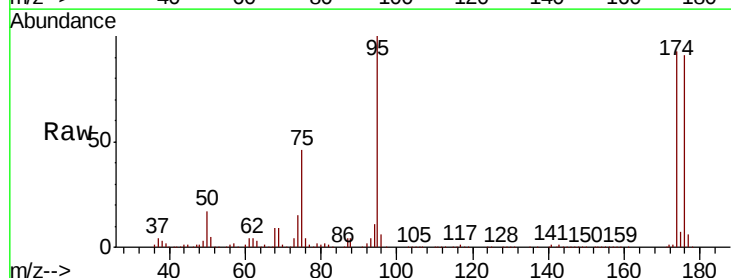
Instrument :
MSVOA_X
ClientSampled :
WE-4

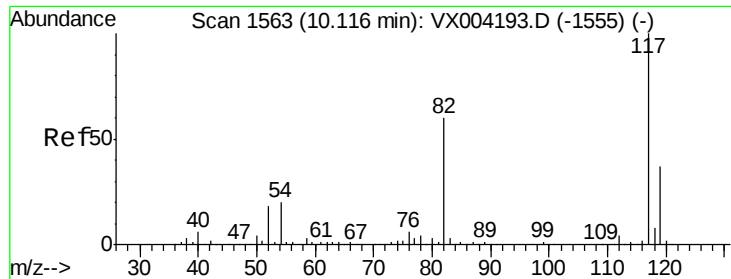
Tot Ion: 43 Resp: 2124
Ion Ratio Lower Upper
43 100
58 49.2 29.0 87.0



#62
4-Bromofluorobenzene
Concen: 49.85 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

Tgt Ion: 95 Resp: 229969
Ion Ratio Lower Upper
95 100
174 91.4 0.0 185.2
176 88.7 0.0 178.6

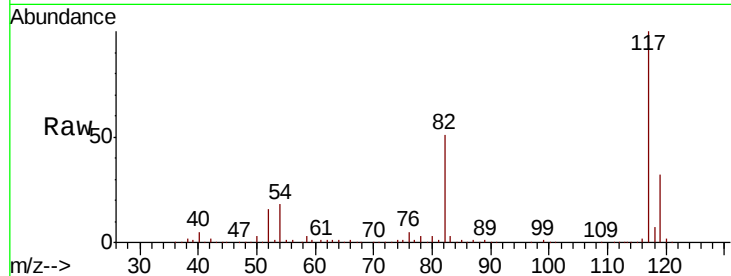




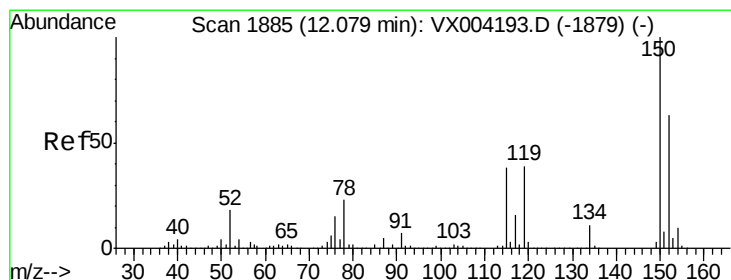
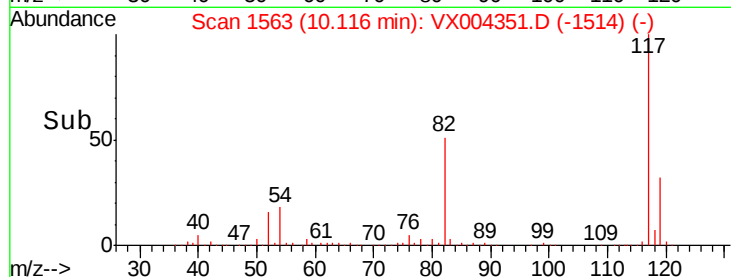
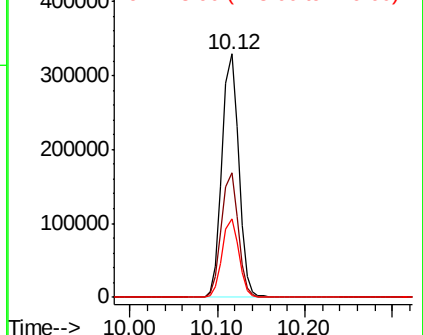
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

Instrument :
MSVOA_X
ClientSampled :
WE-4

Tot Ion:117 Resp: 436871
Ion Ratio Lower Upper
117 100
82 51.3 47.8 71.6
119 32.3 29.3 43.9

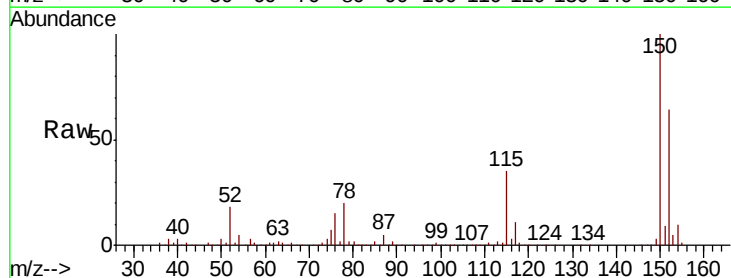


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

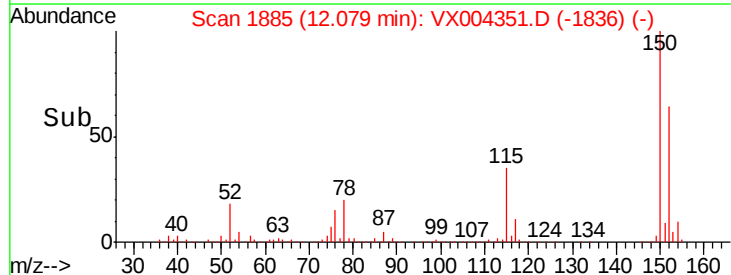
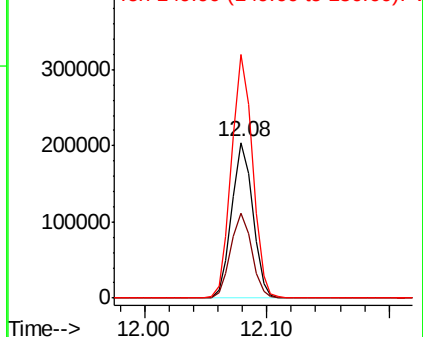


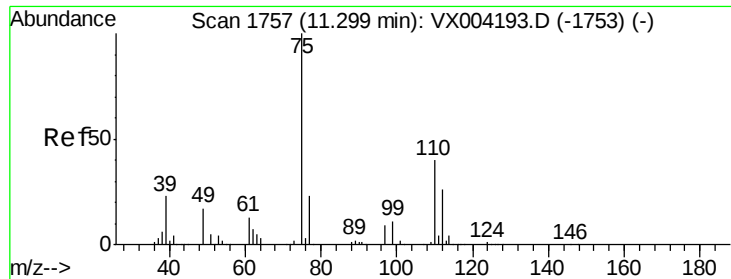
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004351.D
Acq: 04 Sep 2018 17:06

Tgt Ion:152 Resp: 242487
Ion Ratio Lower Upper
152 100
115 54.9 39.0 117.0
150 156.3 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





#76

1,2,3-Trichloropropane

Concen: 21.91 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampled :

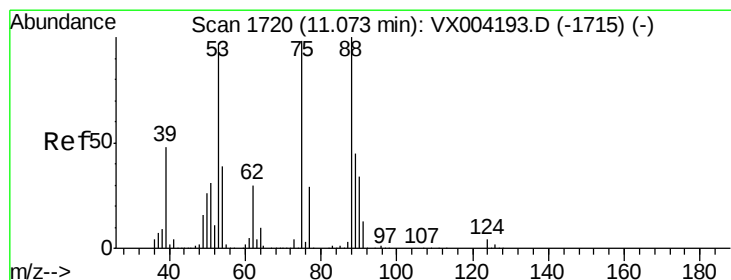
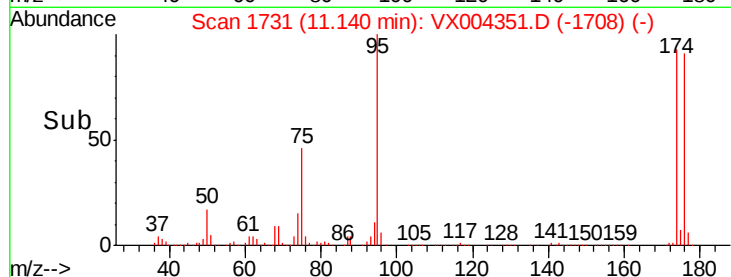
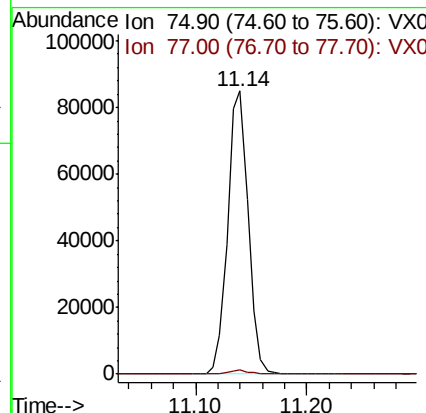
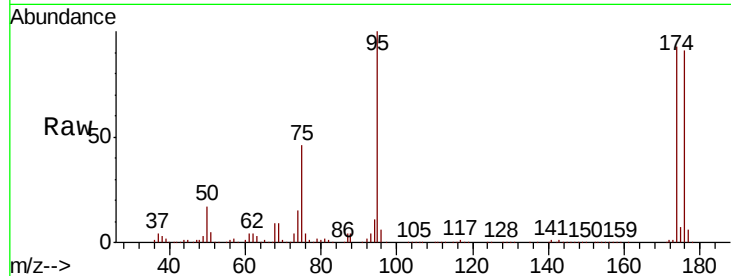
WE-4

Tot Ion: 75 Resp: 108077

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004351.D

Acq: 04 Sep 2018 17:06

Tgt Ion: 75 Resp: 108077

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

