

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090718\
 Data File : VX004423.D
 Acq On : 07 Sep 2018 23:12
 Operator : JC/MD
 Sample : VX0907WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0907WBL02

Quant Time: Sep 08 04:56:58 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	293882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	464755	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	435870	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	247193	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	202299	52.81	ug/l	0.00
Spiked Amount			Recovery	=	105.62%	
35) Dibromofluoromethane	5.50	113	180230	52.13	ug/l	0.00
Spiked Amount			Recovery	=	104.26%	
50) Toluene-d8	8.71	98	665658	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
62) 4-Bromofluorobenzene	11.14	95	231520	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	

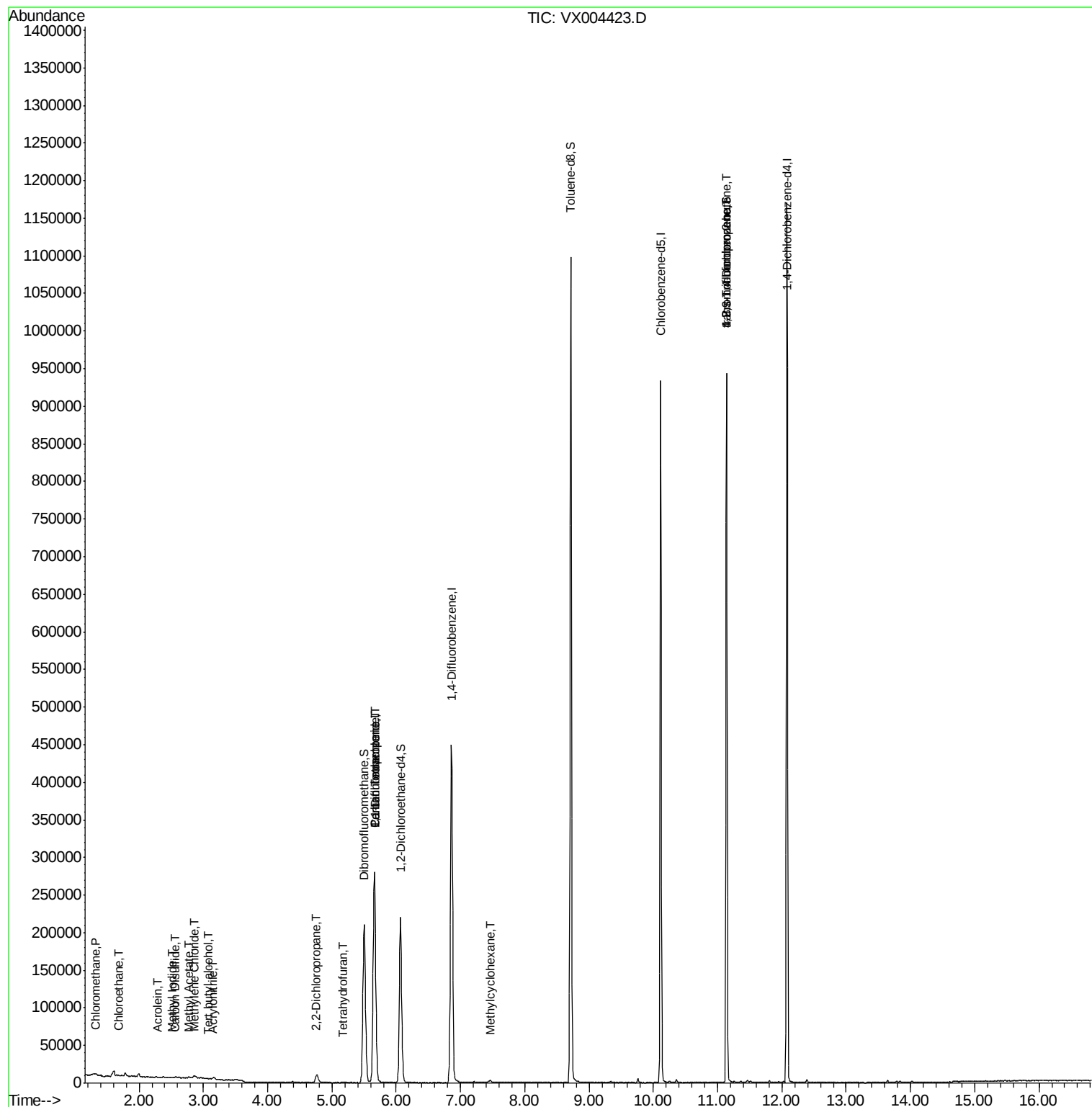
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	853	0.52	ug/l	# 71
5) Bromomethane	1.65	94	1099	Below	Cal	98
6) Chloroethane	1.68	64	7451	3.37	ug/l	# 62
10) Methyl Iodide	2.51	142	1049	4.52	ug/l	# 93
11) Tert butyl alcohol	3.08	59	248	0.30	ug/l	# 72
13) Acrolein	2.29	56	182	0.92	ug/l	# 16
15) Acrylonitrile	3.15	53	501	0.25	ug/l	# 58
16) Acetone	2.44	43	736	Below	Cal	93
17) Carbon Disulfide	2.57	76	1658	0.99	ug/l	# 80
18) Methyl Acetate	2.78	43	1437	0.25	ug/l	# 91
20) Methylene Chloride	2.85	84	1222	0.33	ug/l	# 91
25) 2-Butanone	4.72	43	312	Below	Cal	# 47
26) 2,2-Dichloropropane	4.75	77	1021	0.21	ug/l	# 52
29) Tetrahydrofuran	5.17	42	708	0.43	ug/l	# 67
36) 1,1-Dichloropropene	5.66	75	18913	3.62	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	25508	5.19	ug/l	# 17
39) Methylcyclohexane	7.46	83	1258	0.21	ug/l	# 85
76) 1,2,3-Trichloropropane	11.14	75	107485	21.38	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	107485	69.37	ug/l	# 10

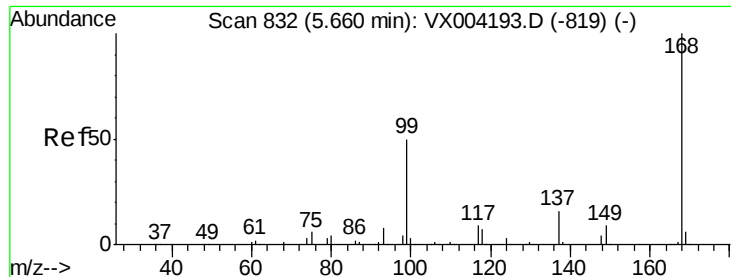
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

Instrument :

MSVOA_X

ClientSampleId :

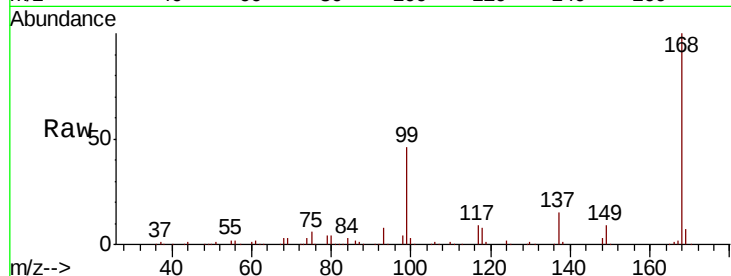
VX0907WBL02

Tot Ion:168 Resp: 293882

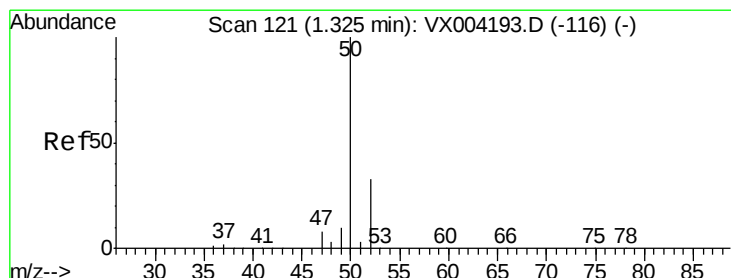
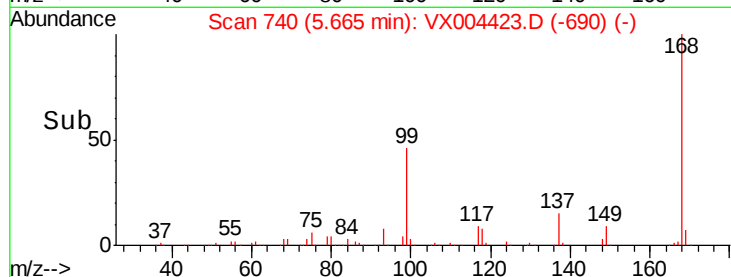
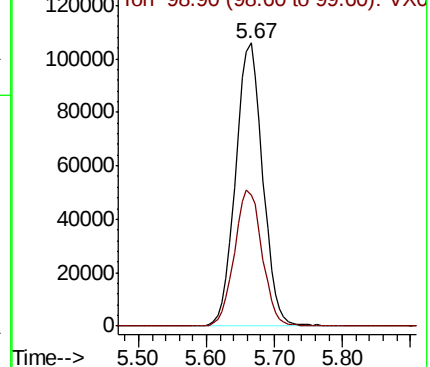
Ion Ratio Lower Upper

168 100

99 46.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): VX0



#3

Chloromethane

Concen: 0.52 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004423.D

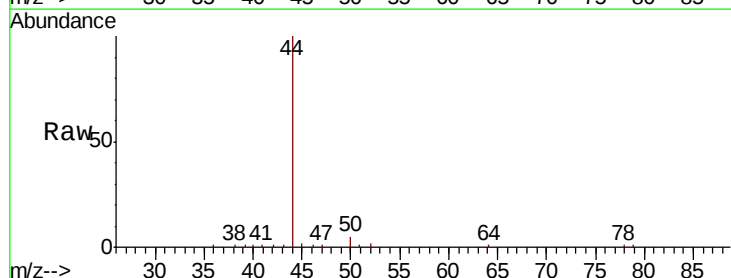
Acq: 07 Sep 2018 23:12

Tgt Ion: 50 Resp: 853

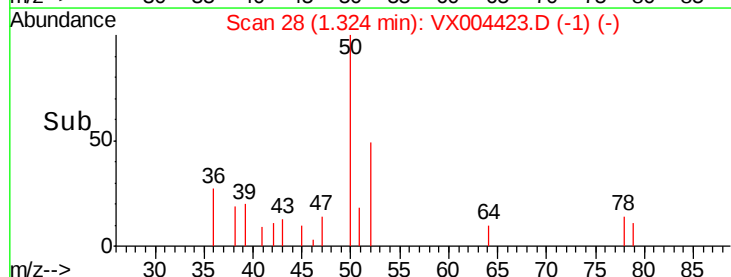
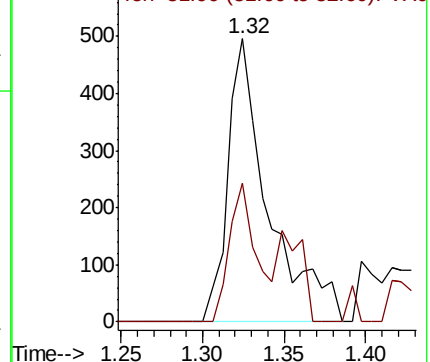
Ion Ratio Lower Upper

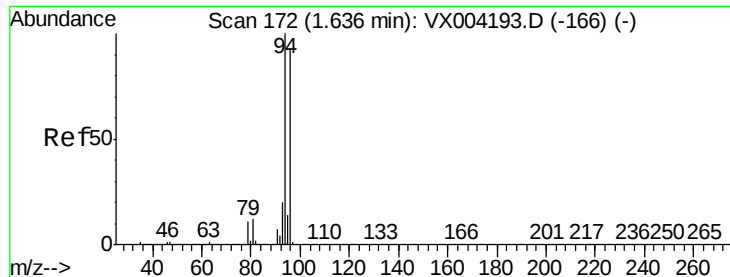
50 100

52 48.8 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

Instrument :

MSVOA_X

ClientSampleId :

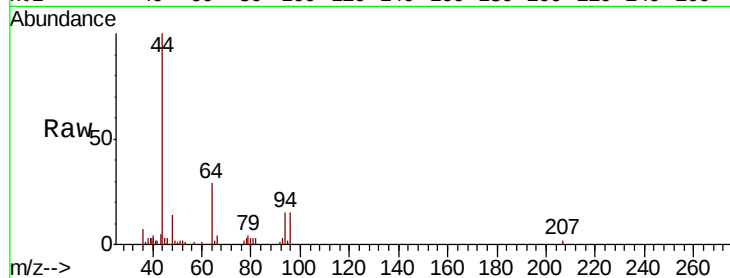
VX0907WBL02

Tot Ion: 94 Resp: 1099

Ion Ratio Lower Upper

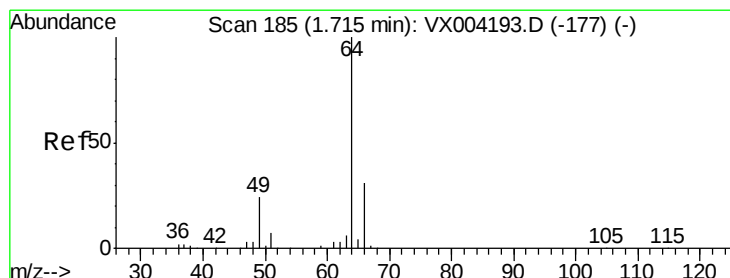
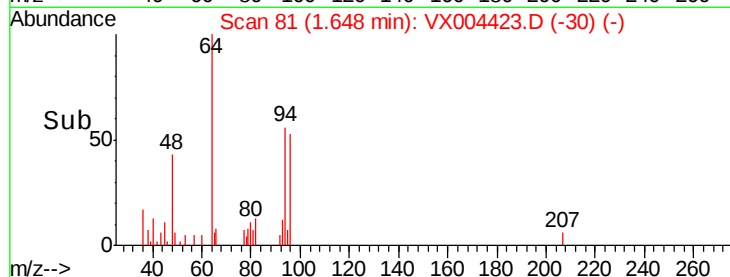
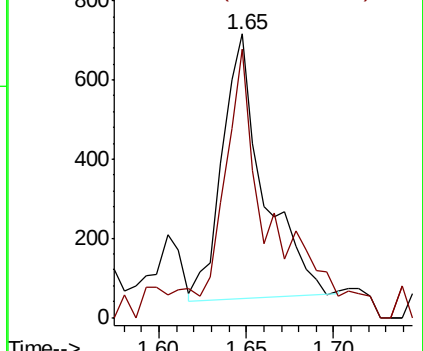
94 100

96 95.4 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 3.37 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX004423.D

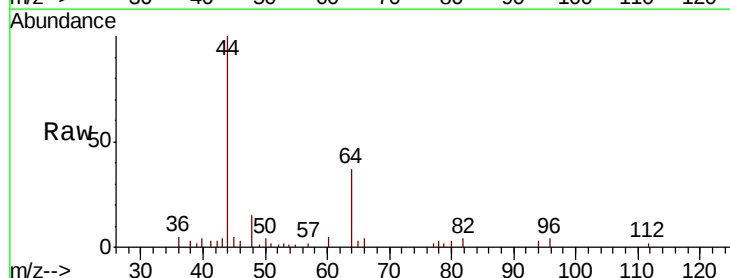
Acq: 07 Sep 2018 23:12

Tgt Ion: 64 Resp: 7451

Ion Ratio Lower Upper

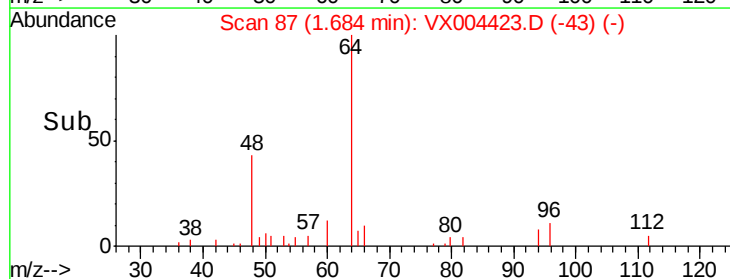
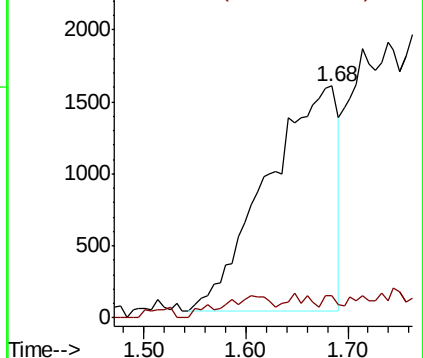
64 100

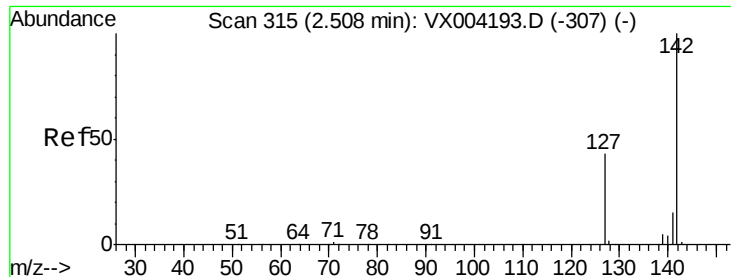
66 9.9 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

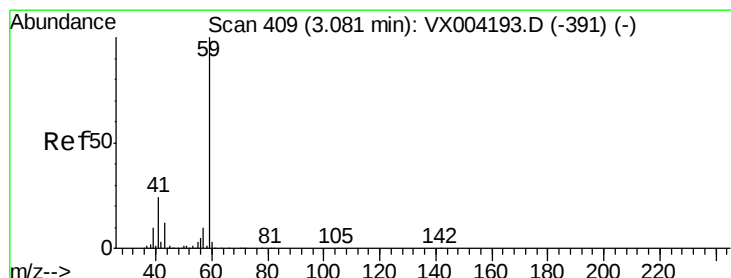
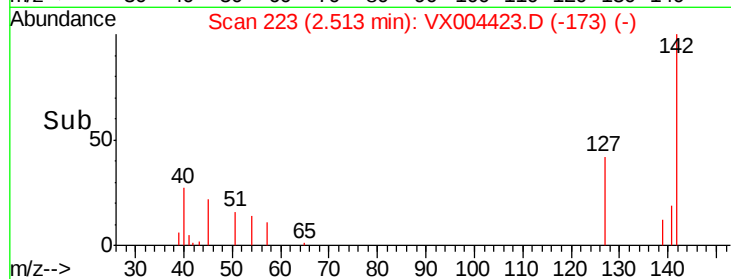
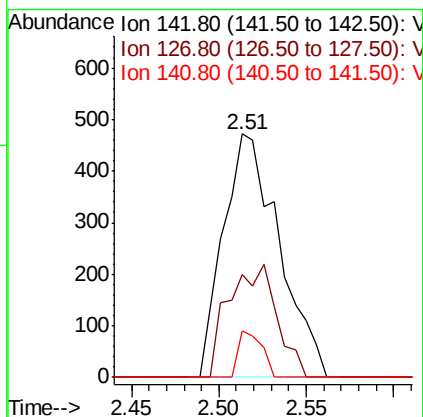
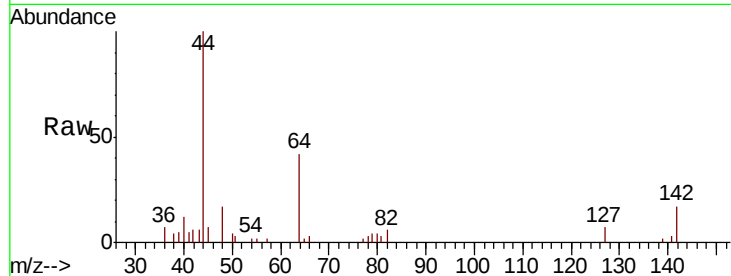




#10
Methyl Iodide
Concen: 4.52 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004423.D
Acq: 07 Sep 2018 23:12

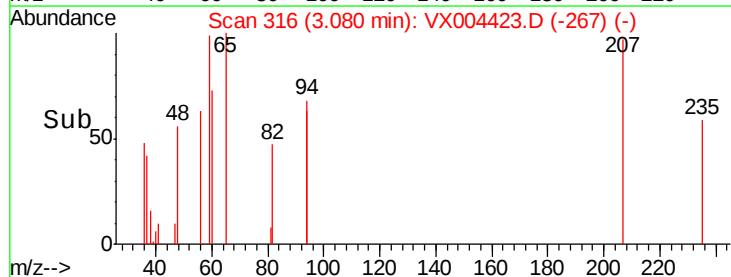
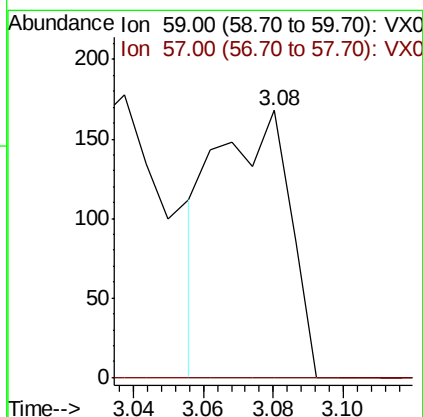
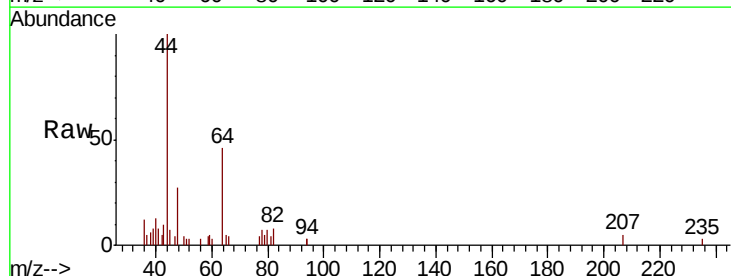
Instrument :
MSVOA_X
ClientSampleId :
VX0907WBL02

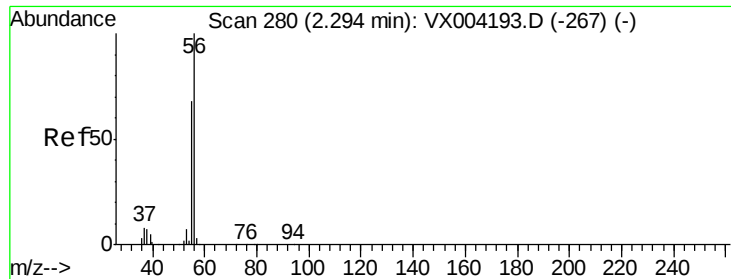
Tot Ion:142 Resp: 1049
Ion Ratio Lower Upper
142 100
127 39.8 33.8 50.6
141 8.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.30 ug/l
RT: 3.08 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX004423.D
Acq: 07 Sep 2018 23:12

Tgt Ion: 59 Resp: 248
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.92 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

Instrument :

MSVOA_X

ClientSampleId :

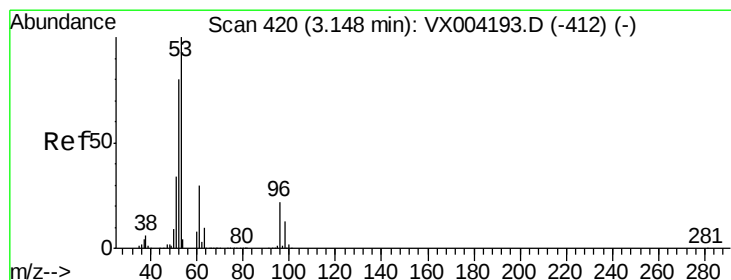
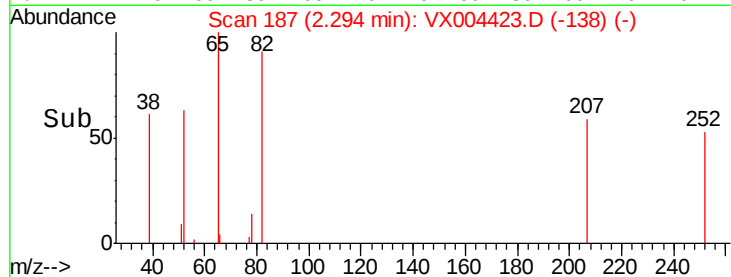
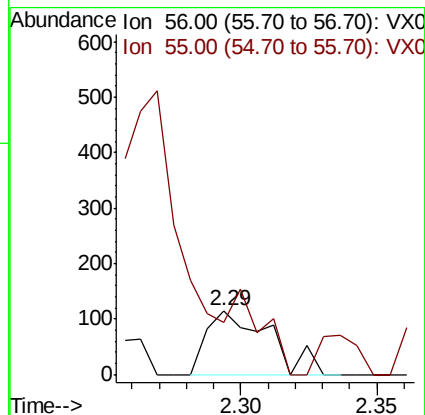
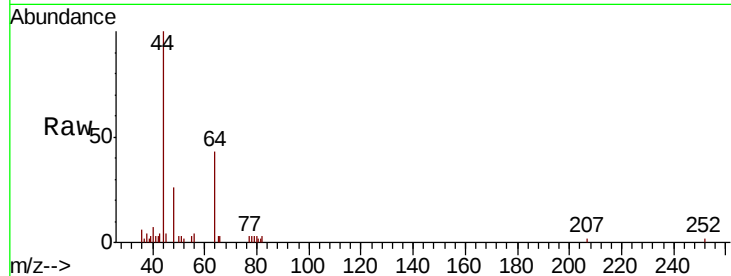
VX0907WBL02

Tot Ion: 56 Resp: 182

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#



#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

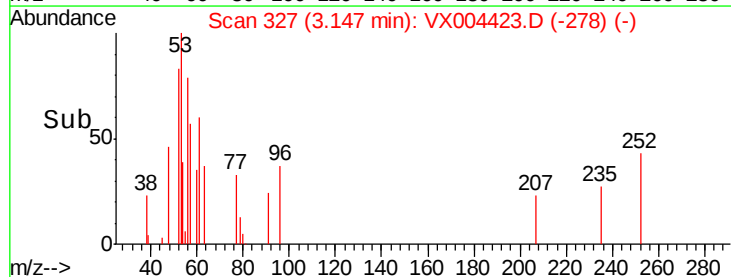
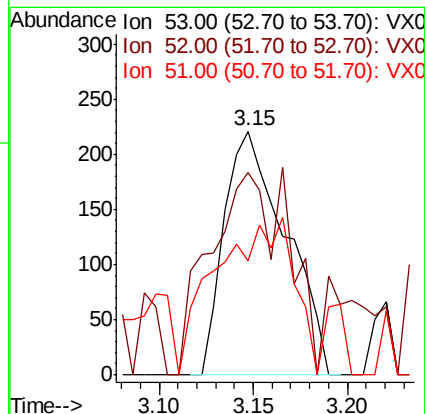
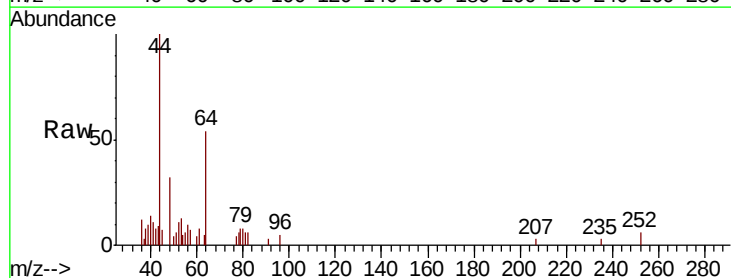
Tgt Ion: 53 Resp: 501

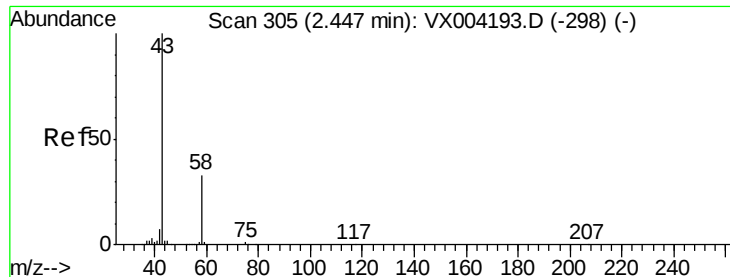
Ion Ratio Lower Upper

53 100

52 105.2 65.2 97.8#

51 80.4 28.2 42.2#





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

Instrument :

MSVOA_X

ClientSampleId :

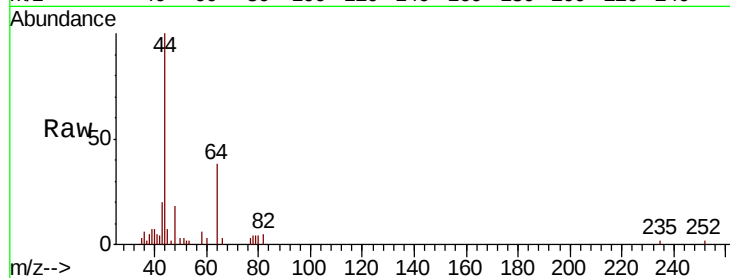
VX0907WBL02

Tot Ion: 43 Resp: 736

Ion Ratio Lower Upper

43 100

58 36.6 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

600

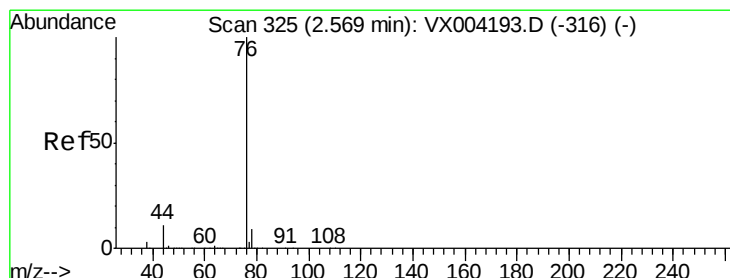
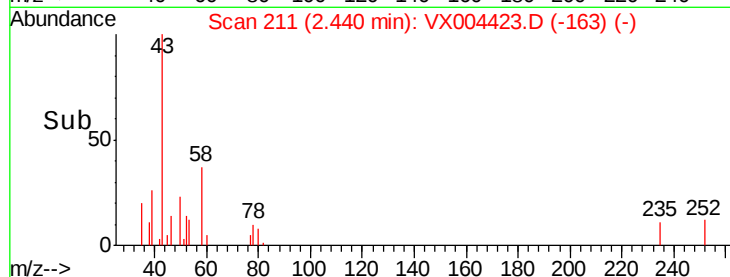
400

200

0

2.40 2.45

Time-->



#17

Carbon Disulfide

Concen: 0.99 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004423.D

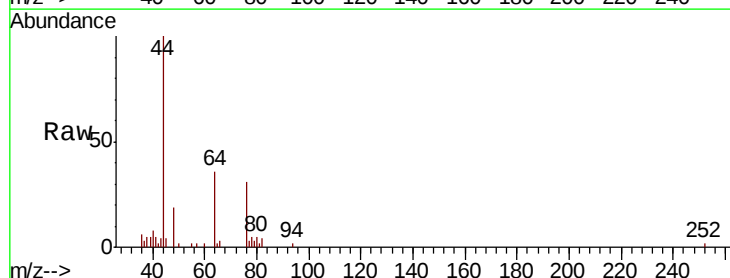
Acq: 07 Sep 2018 23:12

Tgt Ion: 76 Resp: 1658

Ion Ratio Lower Upper

76 100

78 16.1 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1000

800

600

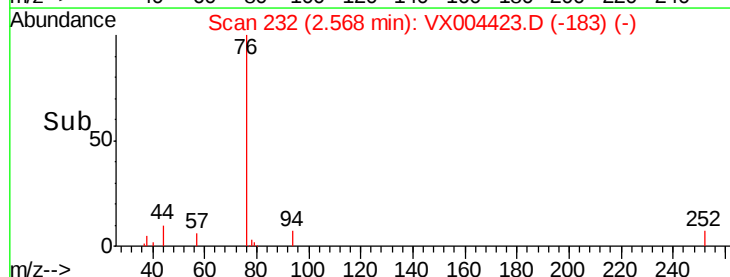
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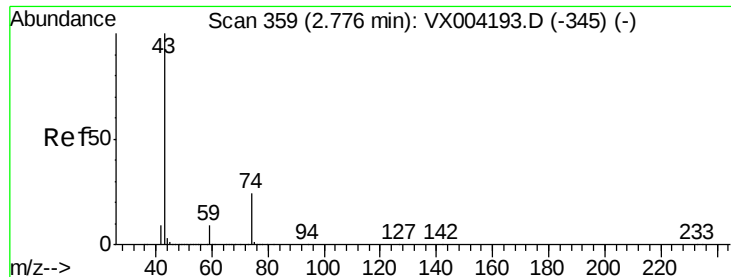
200

0

2.50 2.55 2.60

Time-->

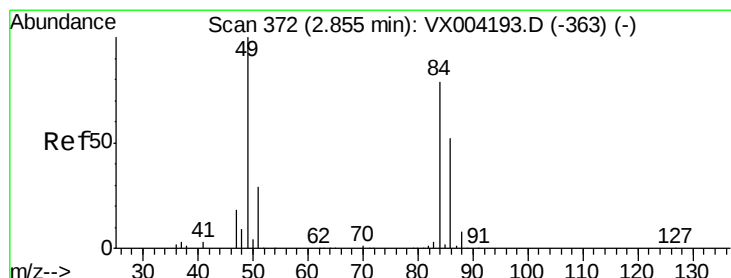
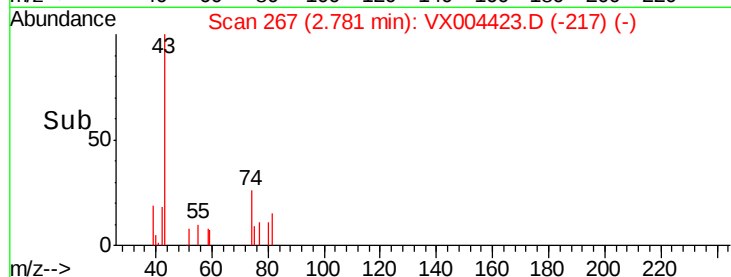
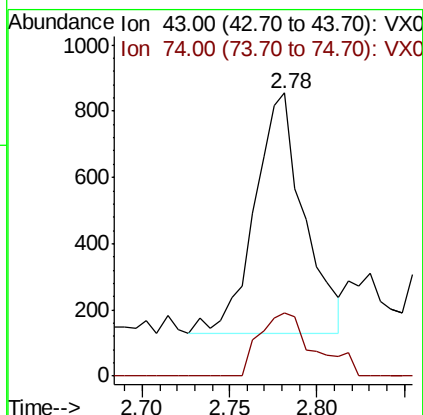
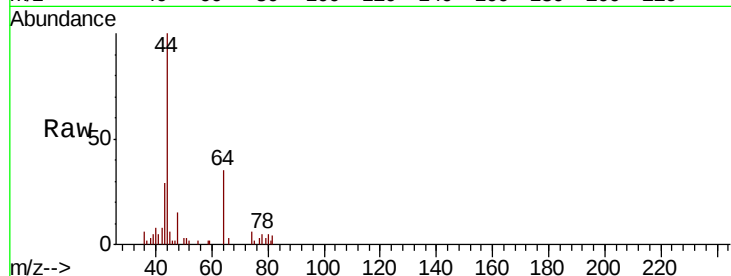




#18
Methyl Acetate
Concen: 0.25 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX004423.D
Acq: 07 Sep 2018 23:12

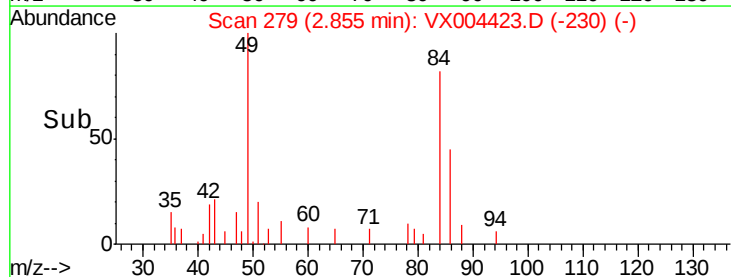
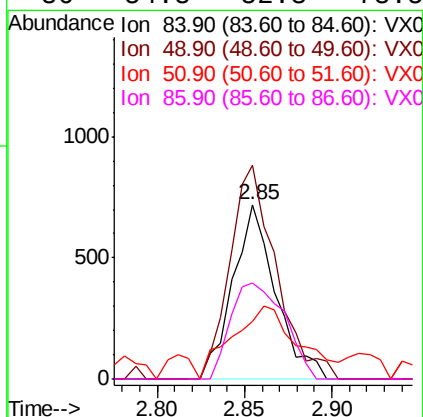
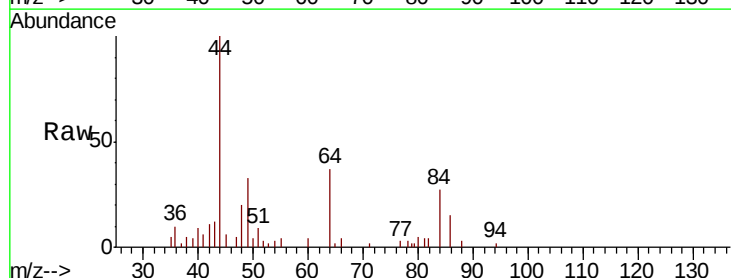
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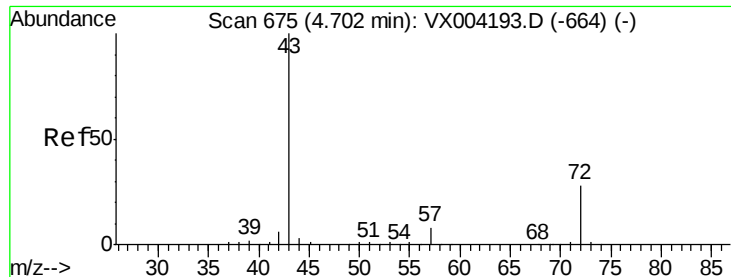
Tot Ion: 43 Resp: 1437
Ion Ratio Lower Upper
43 100
74 28.9 19.4 29.2



#20
Methylene Chloride
Concen: 0.33 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004423.D
Acq: 07 Sep 2018 23:12

Tgt Ion: 84 Resp: 1222
Ion Ratio Lower Upper
84 100
49 122.5 101.2 151.8
51 23.9 29.5 44.3#
86 54.8 52.3 78.5

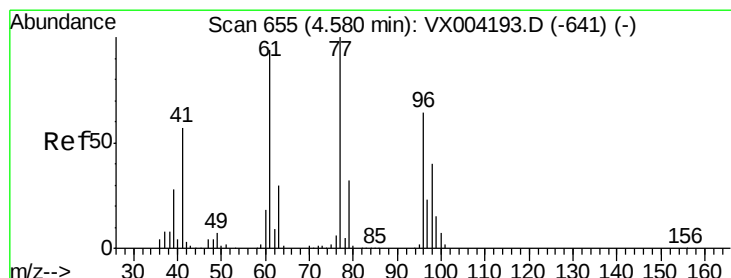
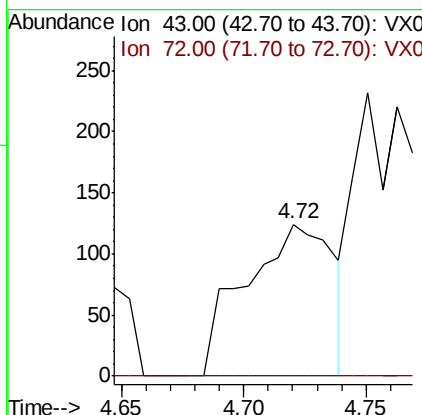
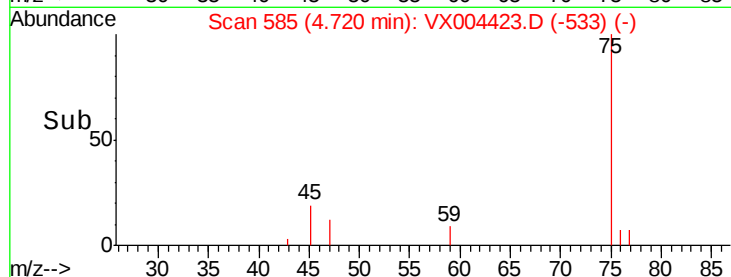
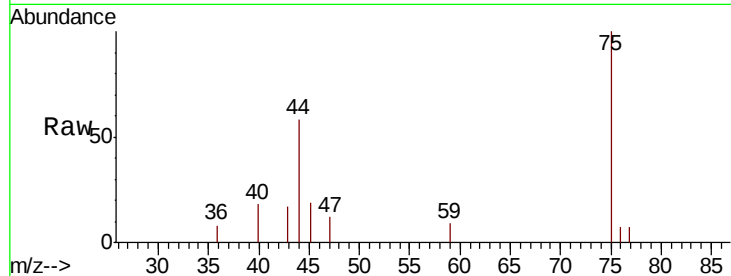




#25
2-Butanone
Concen: Below Cal
RT: 4.72 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX004423.D
Acq: 07 Sep 2018 23:12

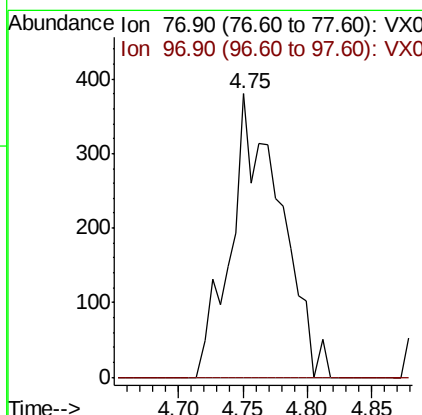
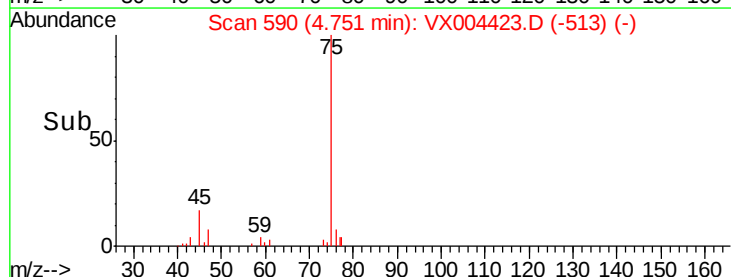
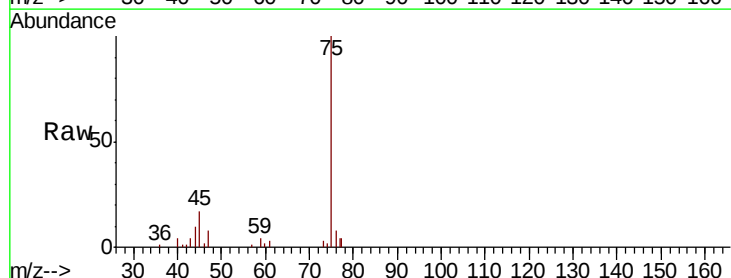
Instrument :
MSVOA_X
ClientSampled :
VX0907WBL02

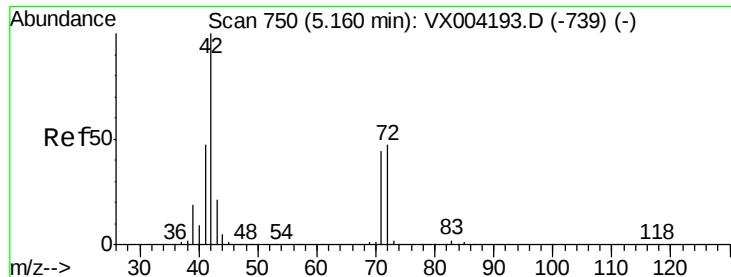
Tot Ion: 43 Resp: 312
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#



#26
2,2-Dichloropropane
Concen: 0.21 ug/l
RT: 4.75 min Scan# 590
Delta R.T. 0.17 min
Lab File: VX004423.D
Acq: 07 Sep 2018 23:12

Tgt Ion: 77 Resp: 1021
Ion Ratio Lower Upper
77 100
97 0.0 11.7 35.0#





#29

Tetrahydrofuran

Concen: 0.43 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

Instrument :

MSVOA_X

ClientSampleId :

VX0907WBL02

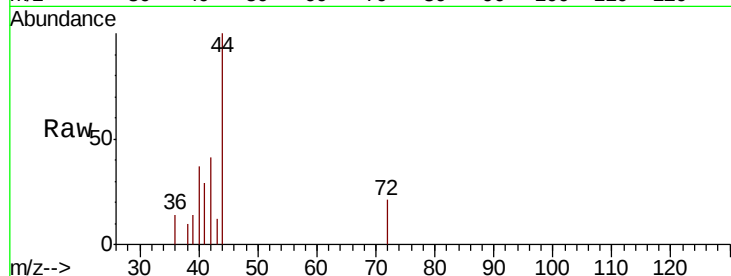
Tot Ion: 42 Resp: 708

Ion Ratio Lower Upper

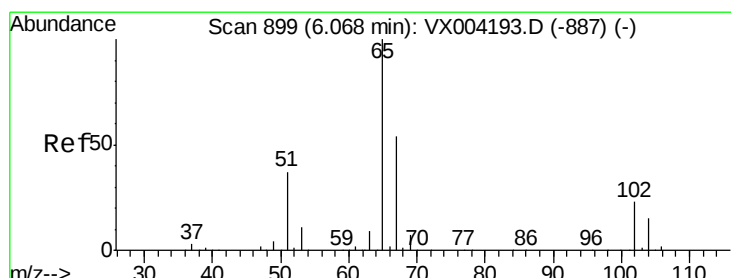
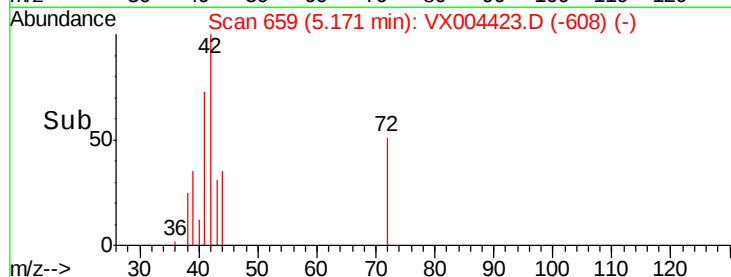
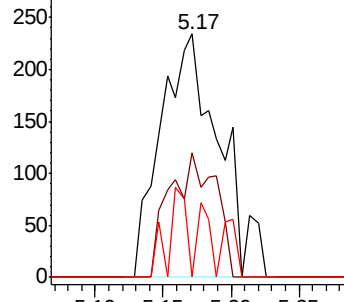
42 100

72 40.0 37.4 56.0

71 6.6 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



#33

1,2-Dichloroethane-d4

Concen: 52.81 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004423.D

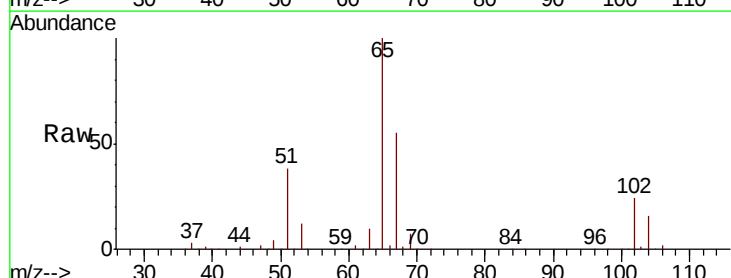
Acq: 07 Sep 2018 23:12

Tgt Ion: 65 Resp: 202299

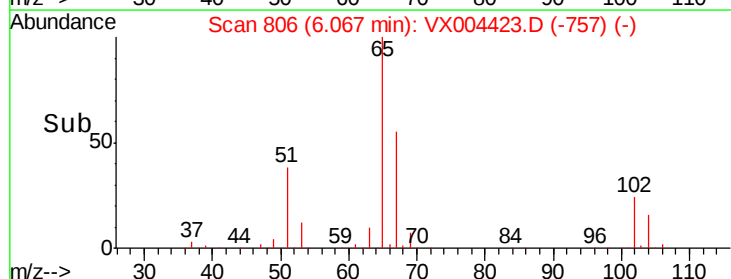
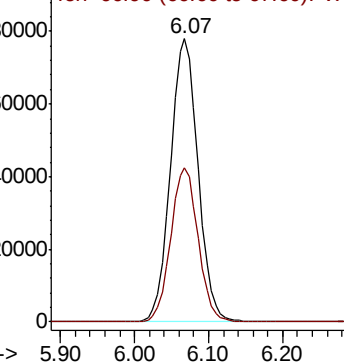
Ion Ratio Lower Upper

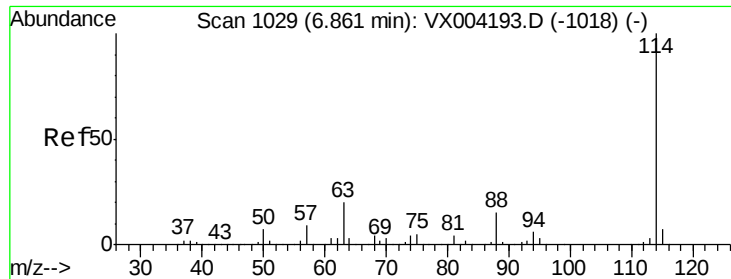
65 100

67 54.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

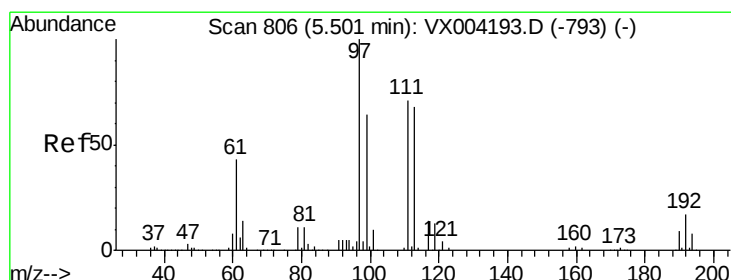
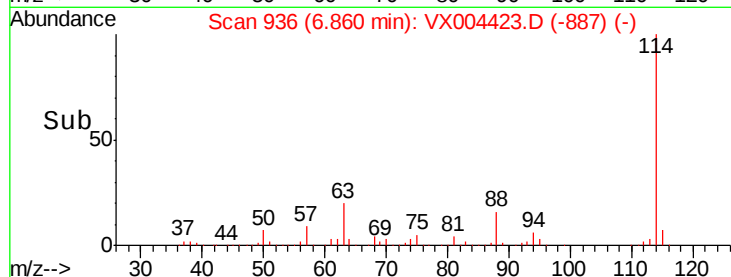
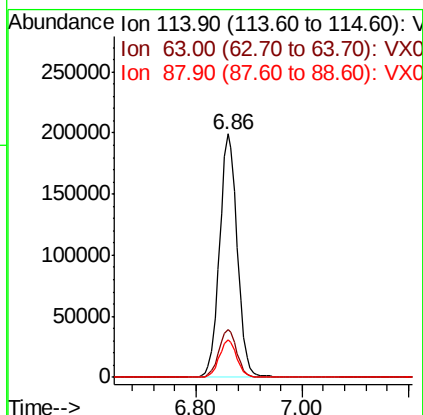
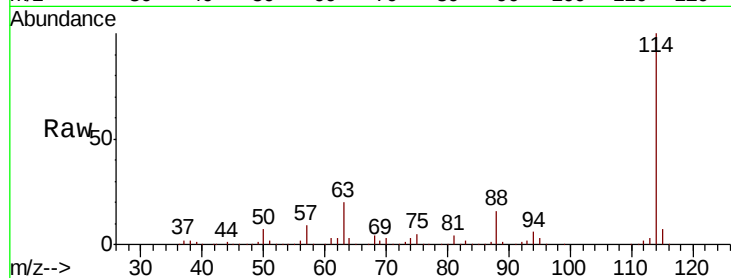




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004423.D
 Acq: 07 Sep 2018 23:12

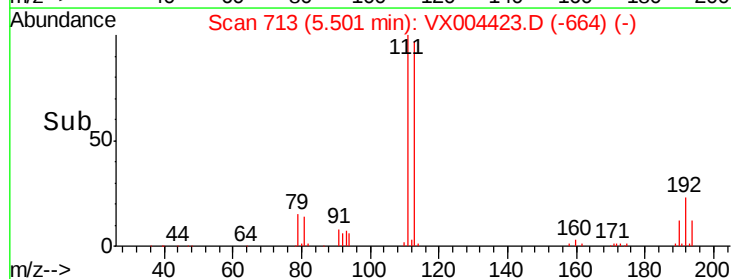
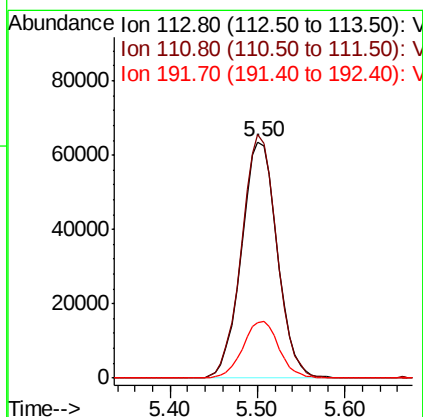
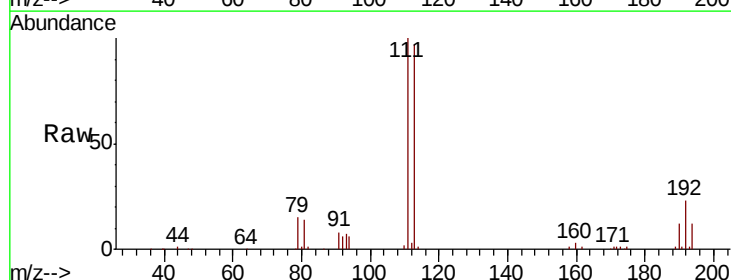
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0907WBL02

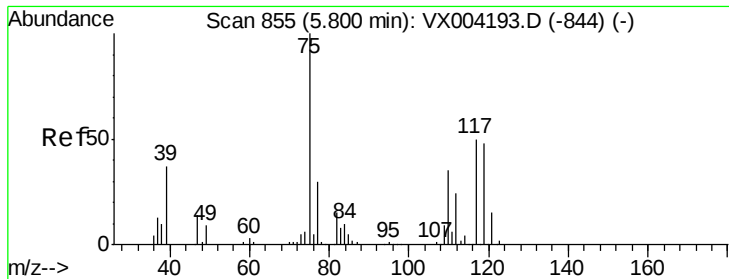
Tot Ion:114 Resp: 464755
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.6 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 52.13 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004423.D
 Acq: 07 Sep 2018 23:12

Tgt Ion:113 Resp: 180230
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.4 123.6
 192 24.2 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.62 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

Instrument :

MSVOA_X

ClientSampleId :

VX0907WBL02

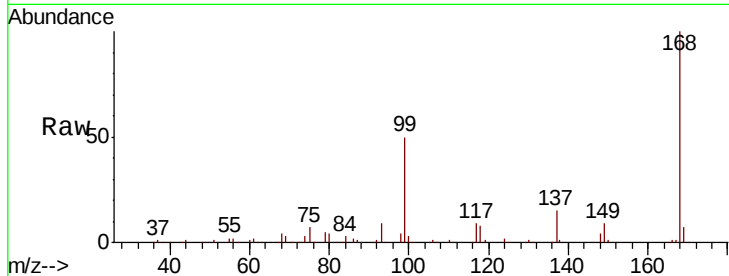
Tot Ion: 75 Resp: 18913

Ion Ratio Lower Upper

75 100

110 9.3 18.0 54.0#

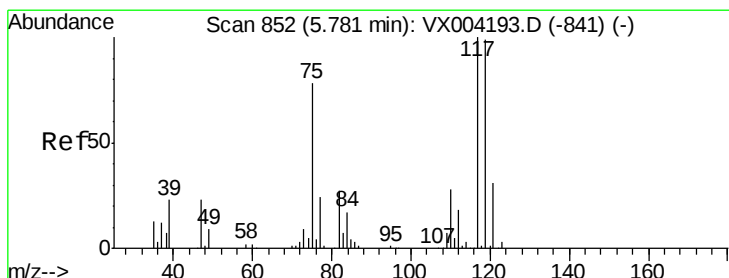
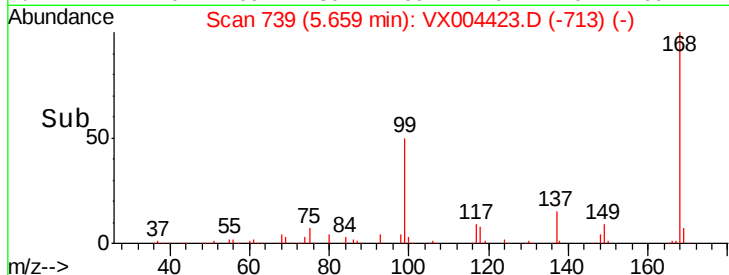
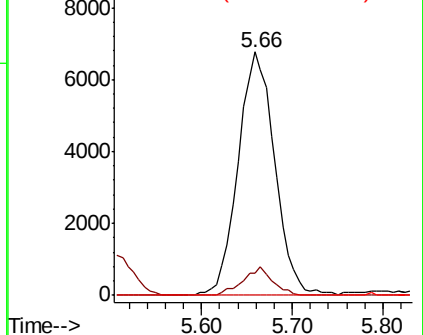
77 0.0 24.6 36.8#



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



#38

Carbon Tetrachloride

Concen: 5.19 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

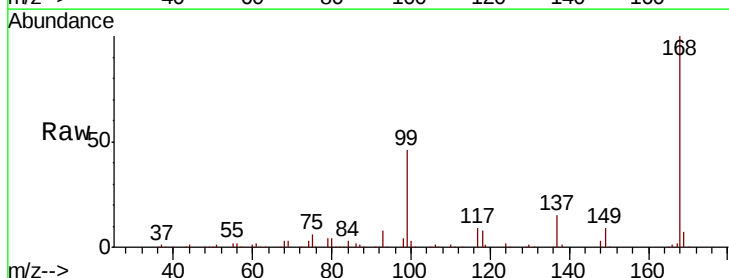
Tgt Ion: 117 Resp: 25508

Ion Ratio Lower Upper

117 100

119 7.3 78.8 118.2#

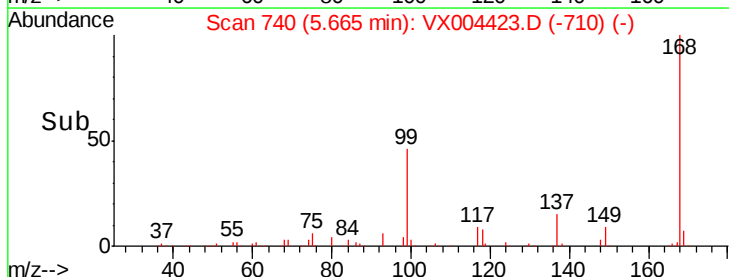
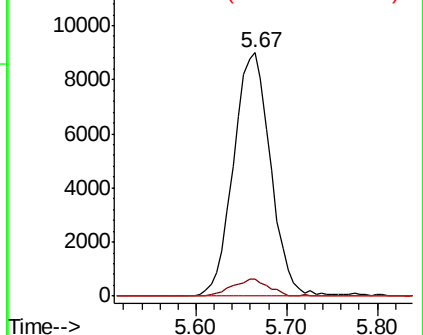
121 0.0 24.9 37.3#

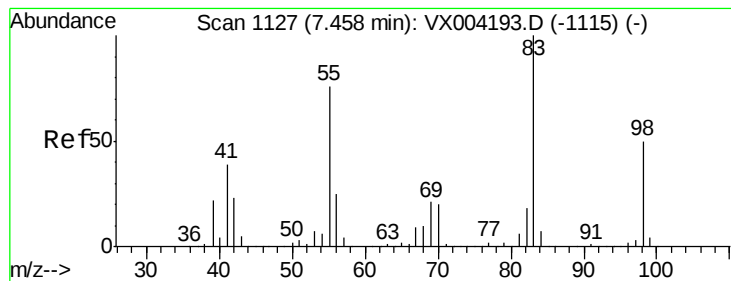


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39

Methvlcvclohexane

Concen: 0.21 ug/l

RT: 7.46 min Scan# 1034

Delta R.T. -0.00 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

Instrument :

MSVOA_X

ClientSampleId :

VX0907WBL02

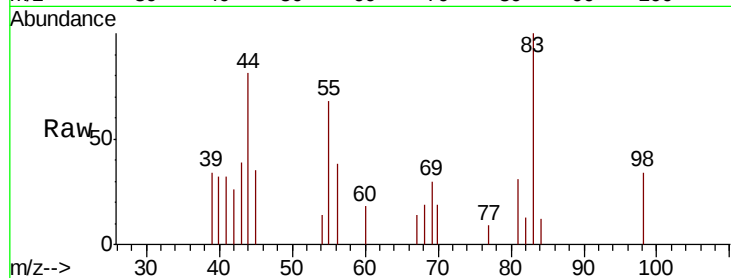
Tot Ion: 83 Resp: 1258

Ion Ratio Lower Upper

83 100

55 67.5 61.0 91.4

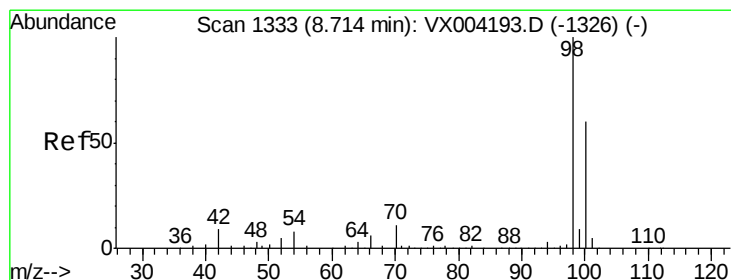
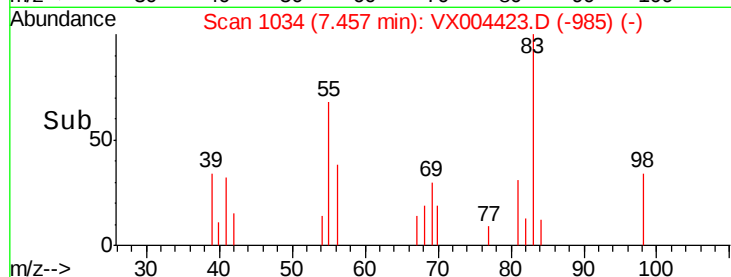
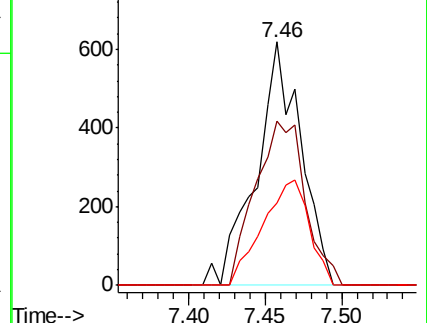
98 33.9 39.6 59.4#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#50

Toluene-d8

Concen: 51.01 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004423.D

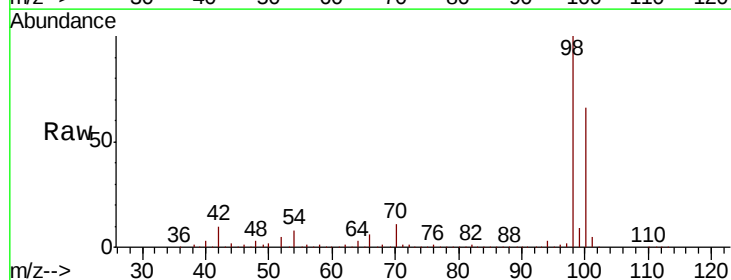
Acq: 07 Sep 2018 23:12

Tgt Ion: 98 Resp: 665658

Ion Ratio Lower Upper

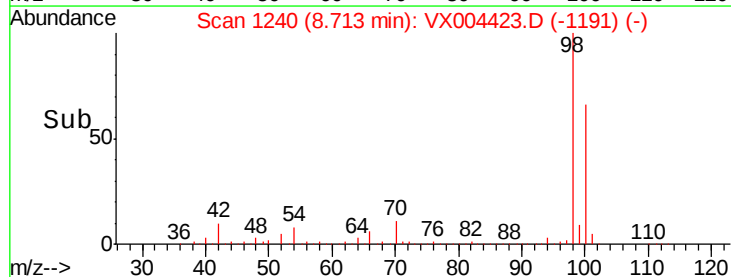
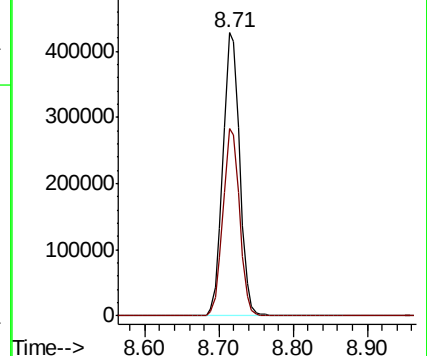
98 100

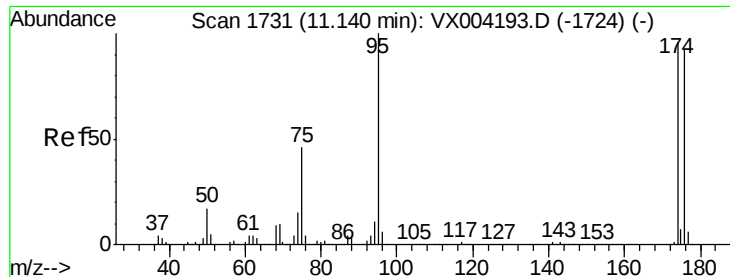
100 65.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

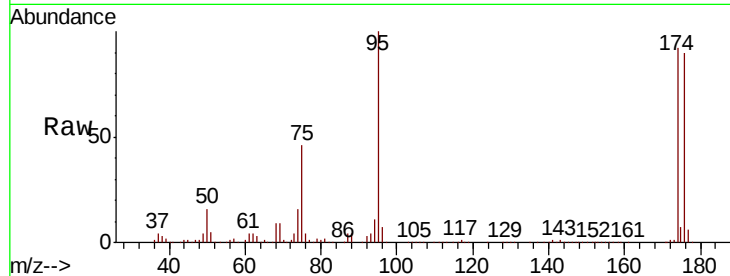




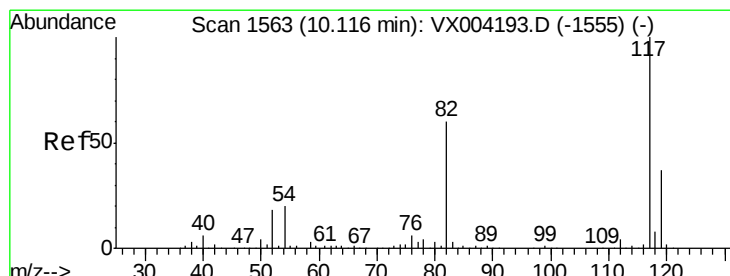
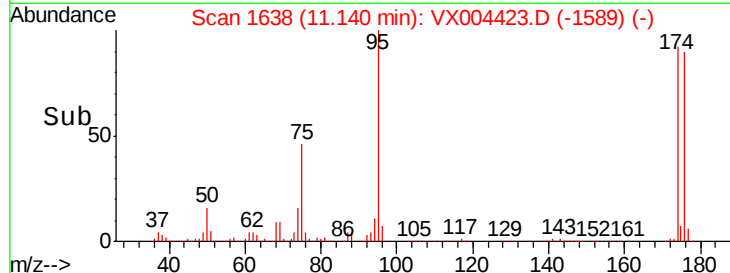
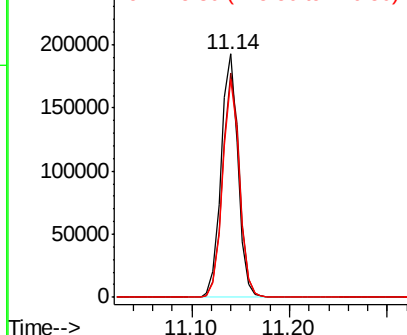
#62
4-Bromofluorobenzene
Concen: 47.54 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004423.D
Acq: 07 Sep 2018 23:12

Instrument :
MSVOA_X
ClientSampleId :
VX0907WBL02

Tot Ion: 95 Resp: 231520
Ion Ratio Lower Upper
95 100
174 92.4 0.0 185.2
176 89.1 0.0 178.6

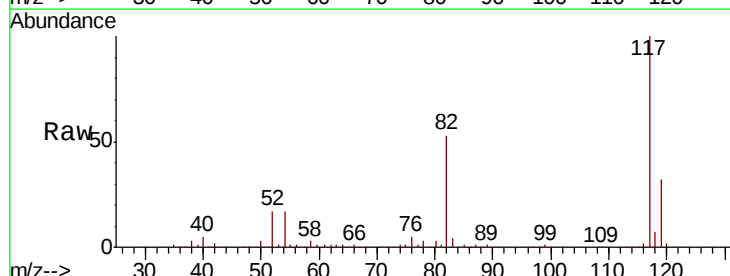


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

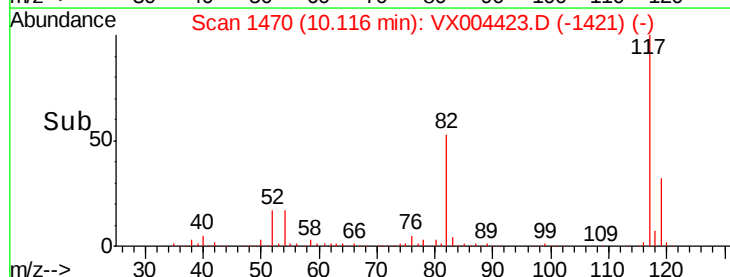
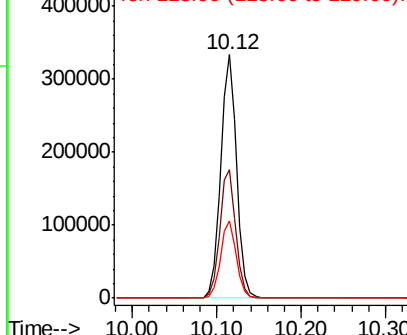


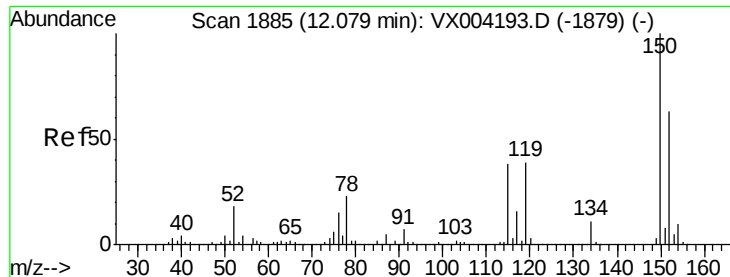
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004423.D
Acq: 07 Sep 2018 23:12

Tgt Ion: 117 Resp: 435870
Ion Ratio Lower Upper
117 100
82 53.0 47.8 71.6
119 31.6 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# 1792

Delta R.T. -0.00 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

Instrument :

MSVOA_X

ClientSampleId :

VX0907WBL02

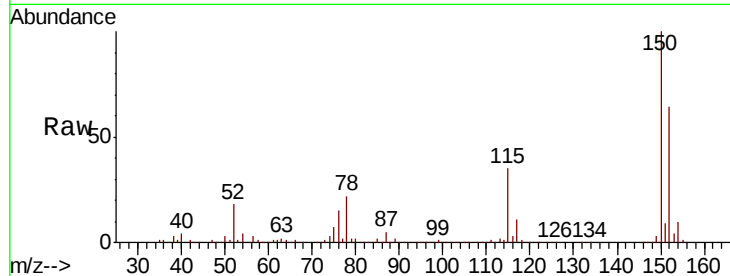
Tot Ion:152 Resp: 247193

Ion Ratio Lower Upper

152 100

115 54.4 39.0 117.0

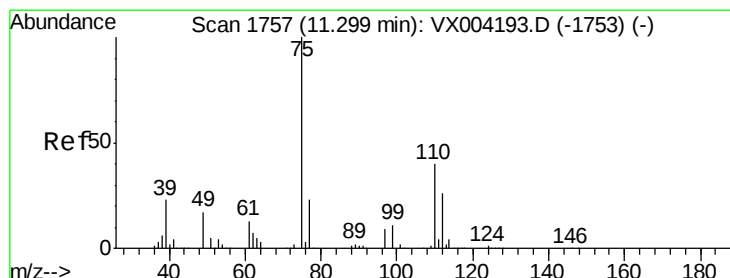
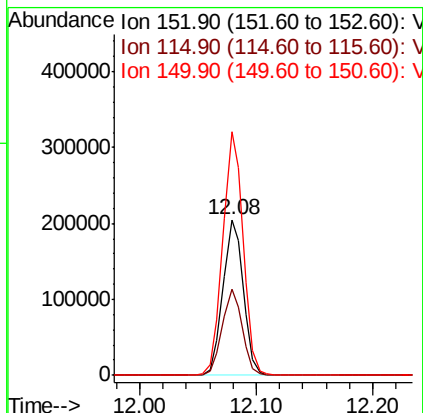
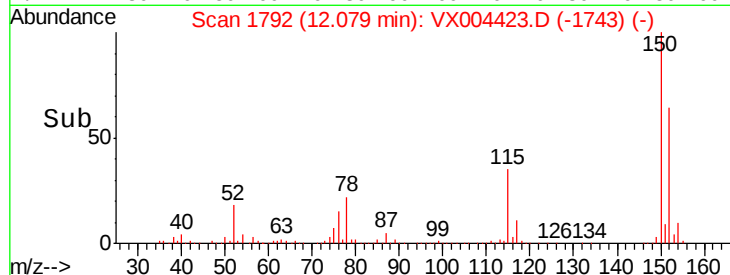
150 155.7 0.0 351.0



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: 21.38 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004423.D

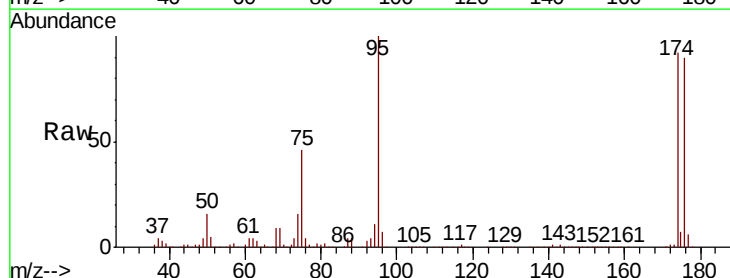
Acq: 07 Sep 2018 23:12

Tgt Ion: 75 Resp: 107485

Ion Ratio Lower Upper

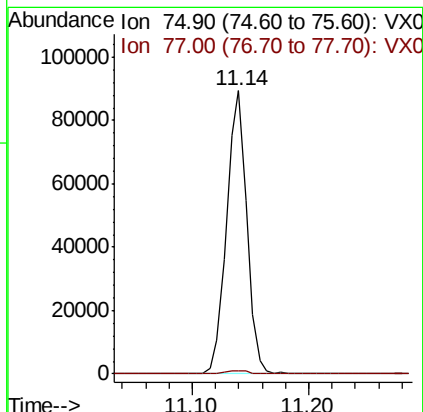
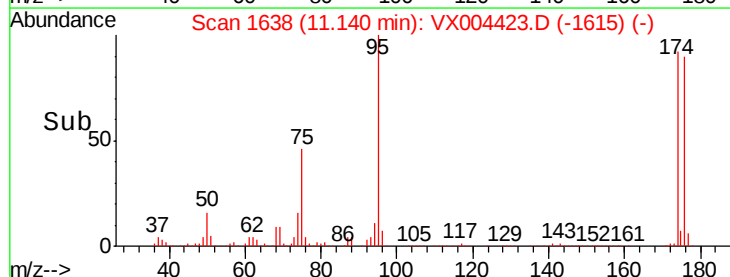
75 100

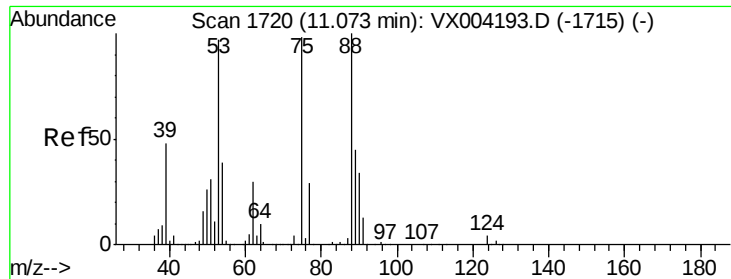
77 1.4 20.2 60.6#



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: 69.37 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004423.D

Acq: 07 Sep 2018 23:12

Instrument :

MSVOA_X

ClientSampleId :

VX0907WBL02

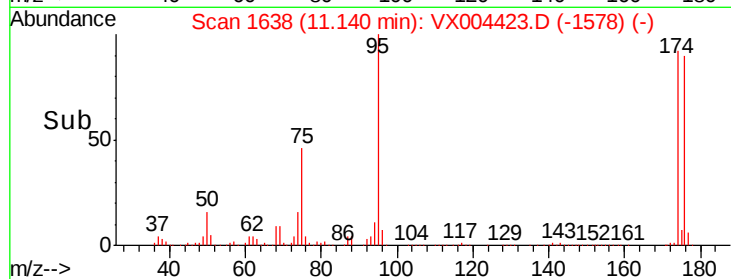
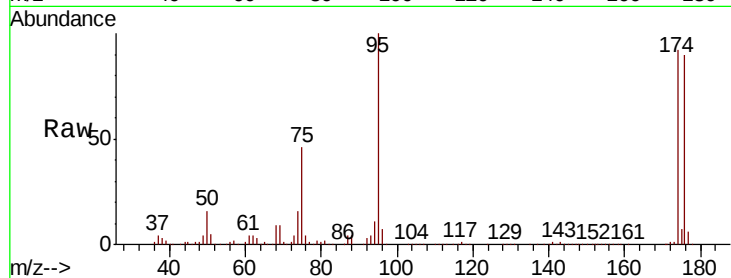
Tot Ion: 75 Resp: 107485

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 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

