

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004441.D
 Acq On : 10 Sep 2018 11:33
 Operator : JC/MD
 Sample : VX0910WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0910WBL01

Quant Time: Sep 11 01:17:45 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	5.66	168	290425	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	461827	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	441850	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	221174	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	200491	52.97	ug/l	0.00
Spiked Amount						
			Recovery	=	105.94%	
35) Dibromofluoromethane	5.50	113	179082	52.12	ug/l	0.00
Spiked Amount						
			Recovery	=	104.24%	
50) Toluene-d8	8.71	98	656753	50.64	ug/l	0.00
Spiked Amount						
			Recovery	=	101.28%	
62) 4-Bromofluorobenzene	11.14	95	211077	43.62	ug/l	0.00
Spiked Amount						
			Recovery	=	87.24%	

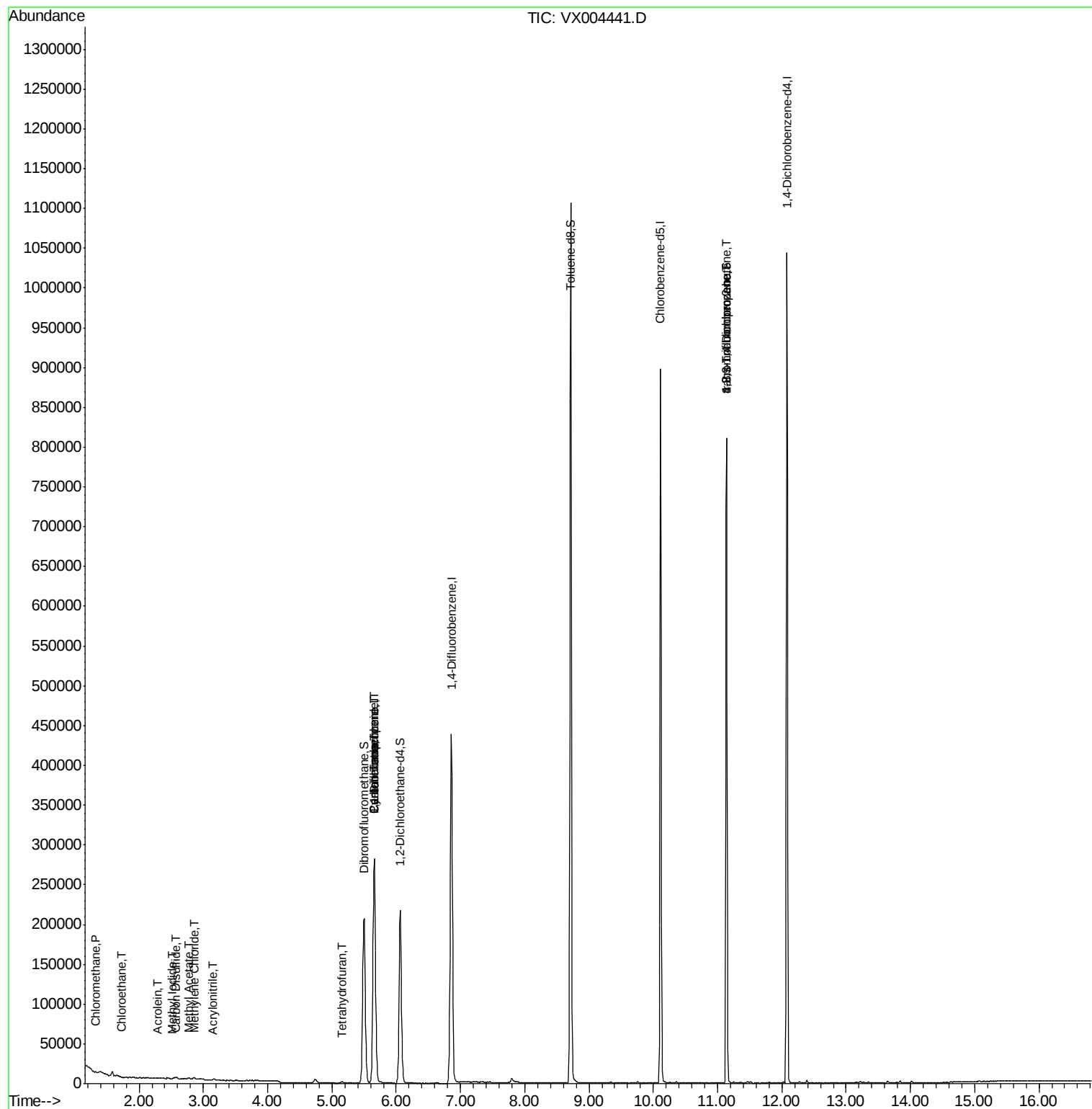
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	662	0.47	ug/l	89
5) Bromomethane	1.67	94	500	Below Cal	#	72
6) Chloroethane	1.73	64	160	1.02	ug/l	# 44
10) Methyl Iodide	2.51	142	152	4.30	ug/l	# 55
13) Acrolein	2.29	56	136	0.70	ug/l	# 16
15) Acrylonitrile	3.14	53	583	0.29	ug/l	# 66
16) Acetone	2.44	43	1964	Below Cal	#	87
17) Carbon Disulfide	2.57	76	1995	1.03	ug/l	# 84
18) Methyl Acetate	2.77	43	1496	0.27	ug/l	# 91
20) Methylene Chloride	2.86	84	890	0.24	ug/l	# 87
25) 2-Butanone	4.70	43	381	Below Cal	#	47
29) Tetrahydrofuran	5.17	42	1345	0.83	ug/l	# 85
31) Cyclohexane	5.66	56	5060	0.95	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	18802	3.62	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	25299	5.18	ug/l	# 15
76) 1,2,3-Trichloropropane	11.13	75	93459	20.78	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.13	75	93459	67.41	ug/l	# 10
94) Hexachlorobutadiene	13.78	225	318	Below Cal		87

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

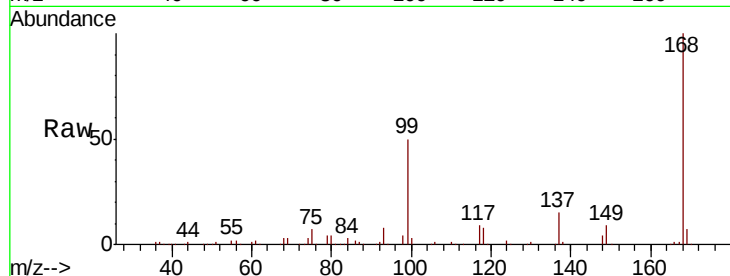
VX0910WBL01

Tot Ion:168 Resp: 290425

Ion Ratio Lower Upper

168 100

99 50.2 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

120000

100000

80000

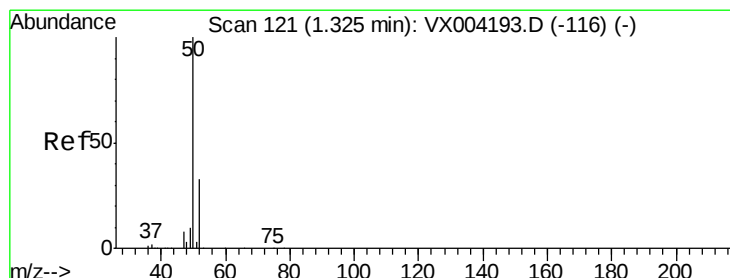
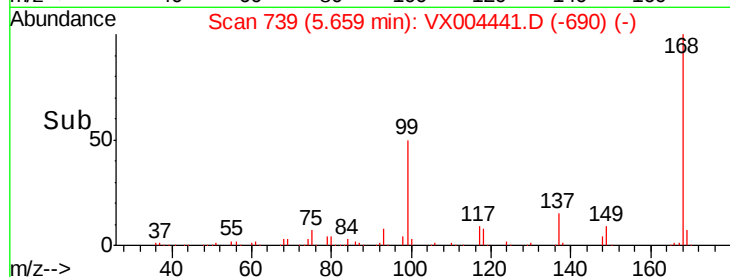
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.47 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX004441.D

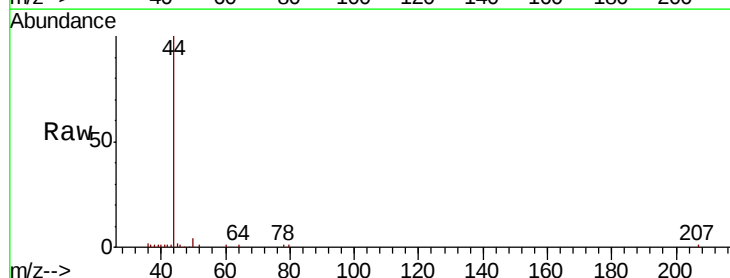
Acq: 10 Sep 2018 11:33

Tgt Ion: 50 Resp: 662

Ion Ratio Lower Upper

50 100

52 26.5 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

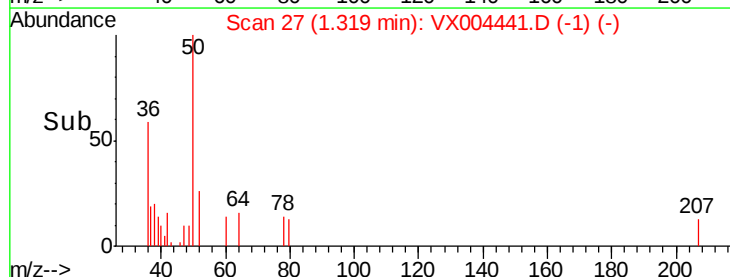
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 84

Delta R.T. 0.03 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

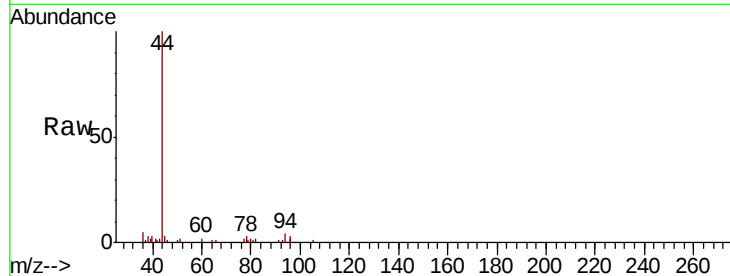
VX0910WBL01

Tot Ion: 94 Resp: 500

Ion Ratio Lower Upper

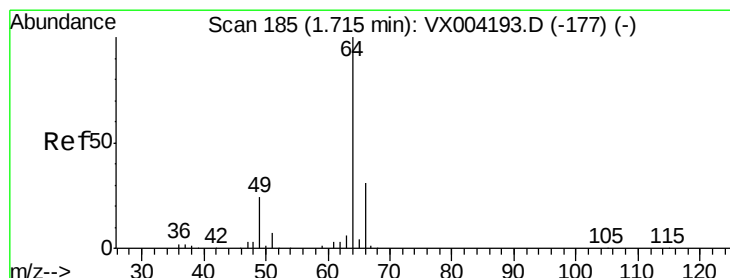
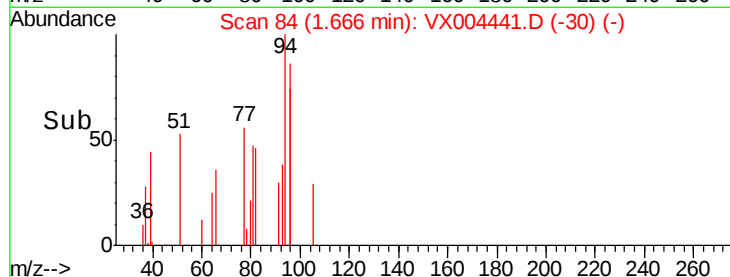
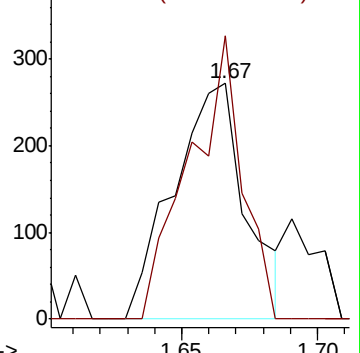
94 100

96 120.2 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: 1.02 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX004441.D

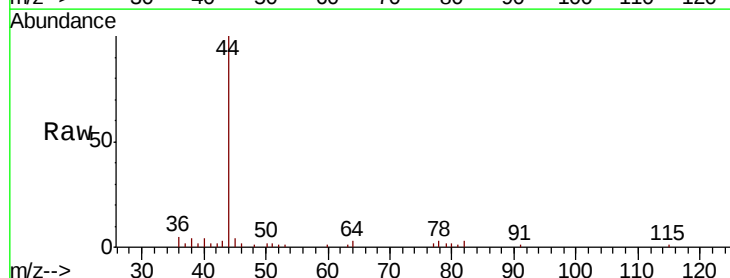
Acq: 10 Sep 2018 11:33

Tgt Ion: 64 Resp: 160

Ion Ratio Lower Upper

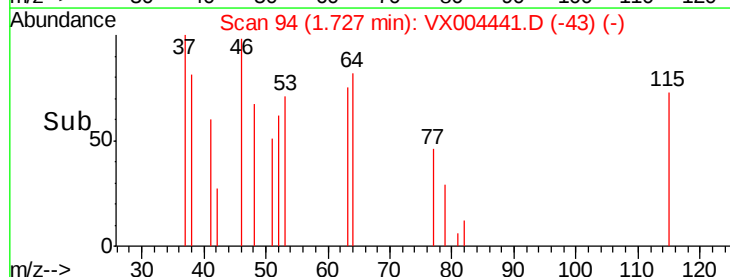
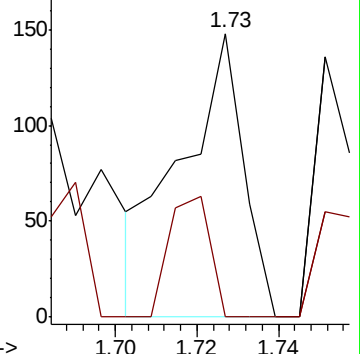
64 100

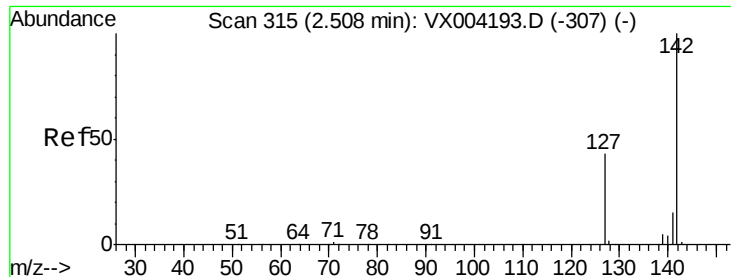
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

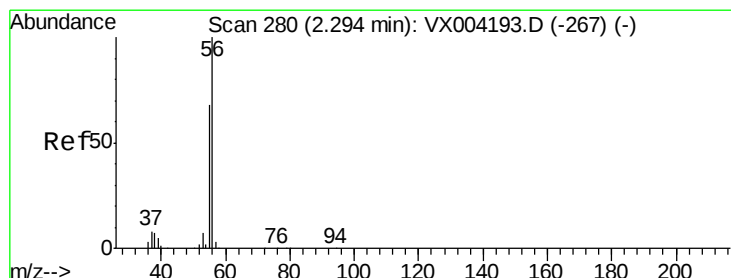
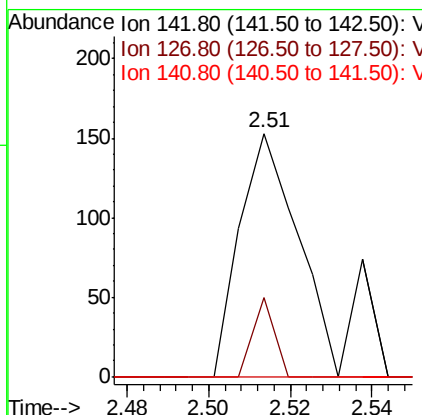
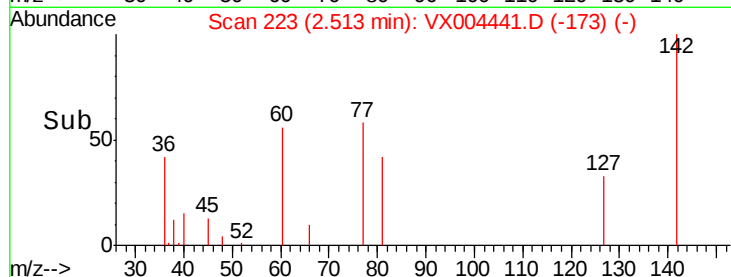
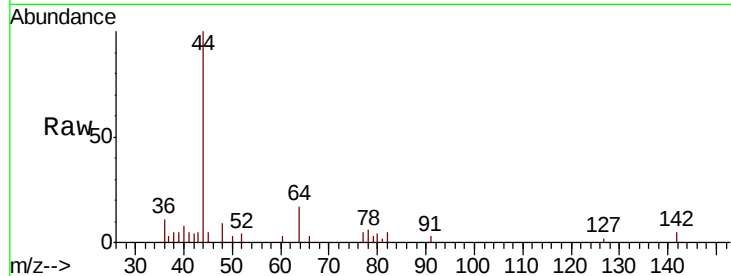




#10
Methvl Iodide
Concen: 4.30 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004441.D
Acq: 10 Sep 2018 11:33

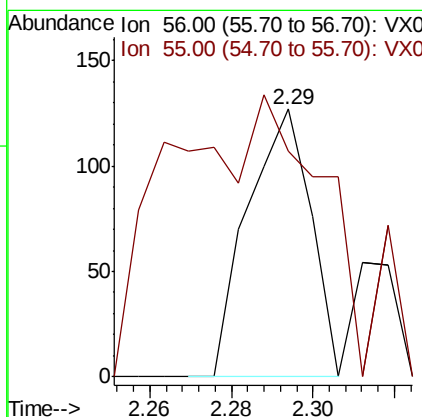
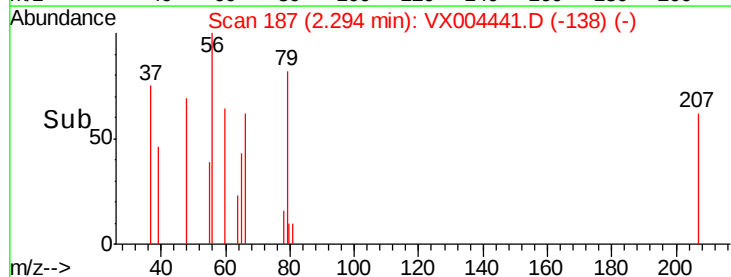
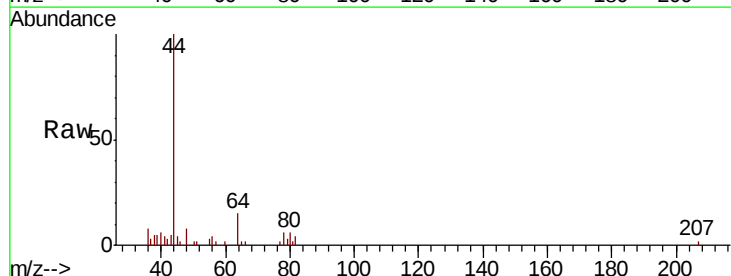
Instrument :
MSVOA_X
ClientSampleId :
VX0910WBL01

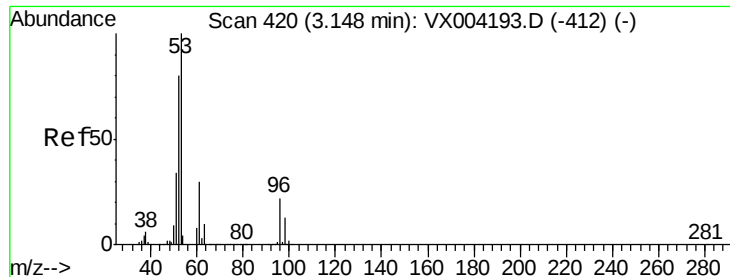
Tot Ion:142 Resp: 152
Ion Ratio Lower Upper
142 100
127 11.8 33.8 50.6#
141 0.0 11.4 17.0#



#13
Acrolein
Concen: 0.70 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX004441.D
Acq: 10 Sep 2018 11:33

Tgt Ion: 56 Resp: 136
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#





#15

Acrylonitrile

Concen: 0.29 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0910WBL01

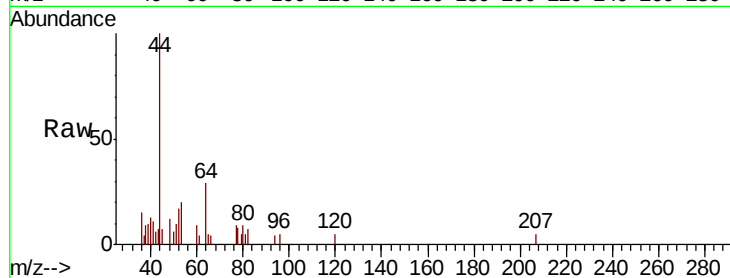
Tot Ion: 53 Resp: 583

Ion Ratio Lower Upper

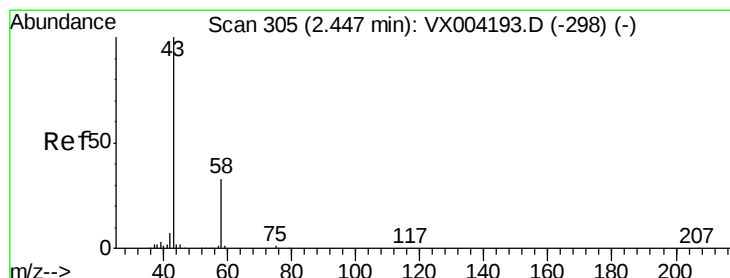
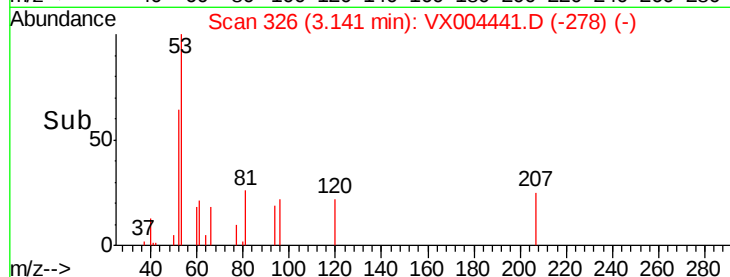
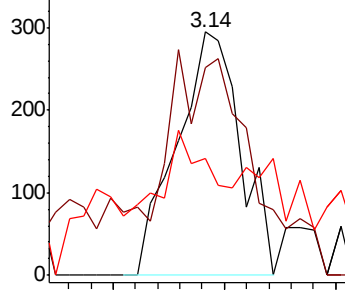
53 100

52 114.9 65.2 97.8#

51 19.2 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: Below Cal

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004441.D

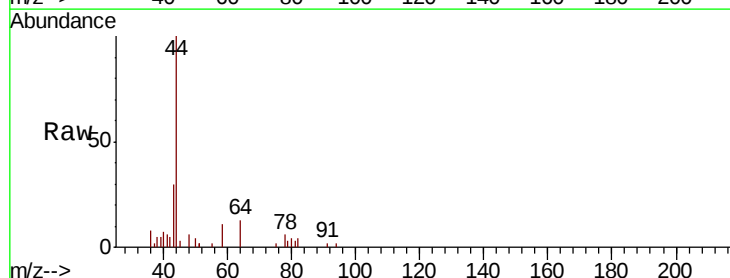
Acq: 10 Sep 2018 11:33

Tgt Ion: 43 Resp: 1964

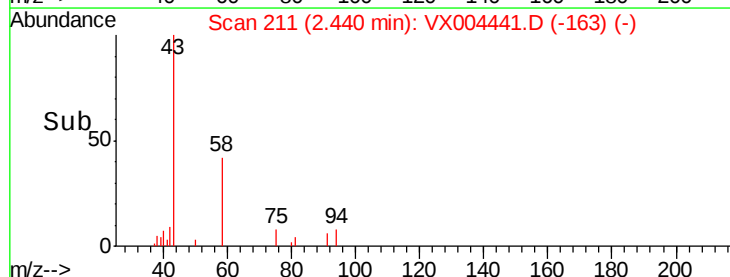
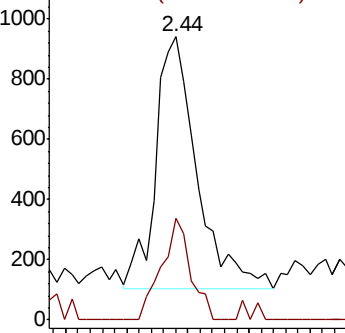
Ion Ratio Lower Upper

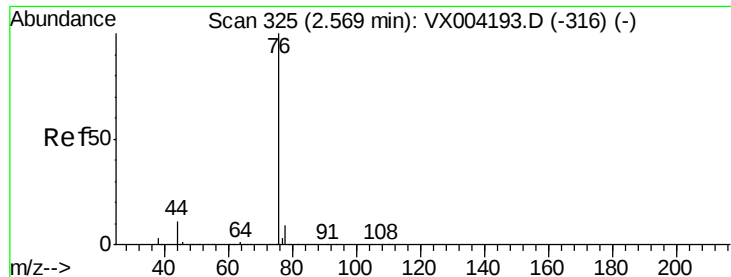
43 100

58 40.1 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: 1.03 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

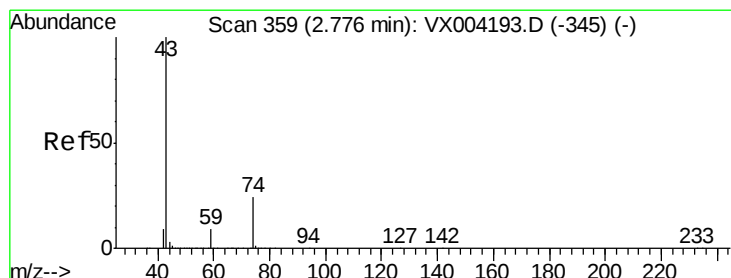
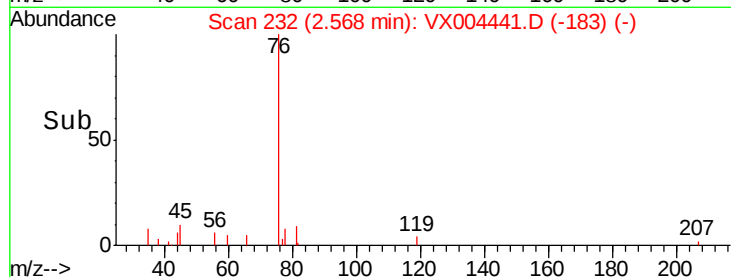
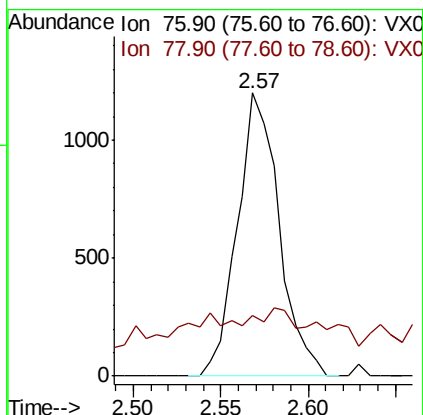
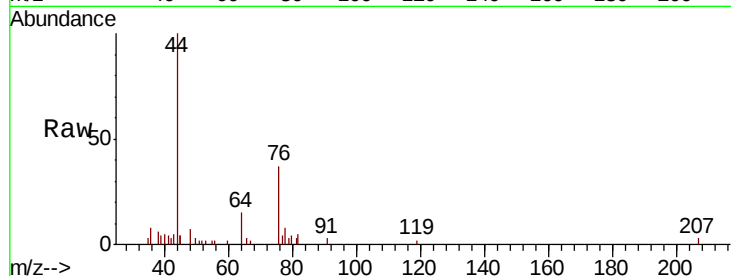
VX0910WBL01

Tot Ion: 76 Resp: 1995

Ion Ratio Lower Upper

76 100

78 3.1 7.0 10.6#



#18

Methyl Acetate

Concen: 0.27 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX004441.D

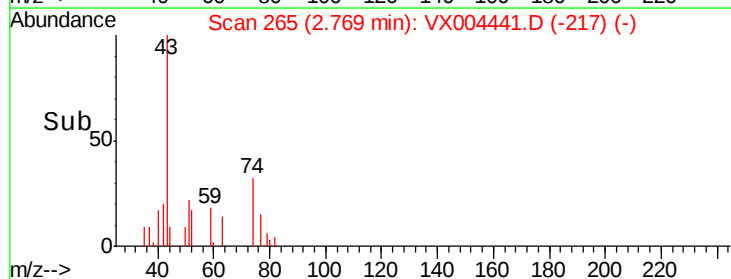
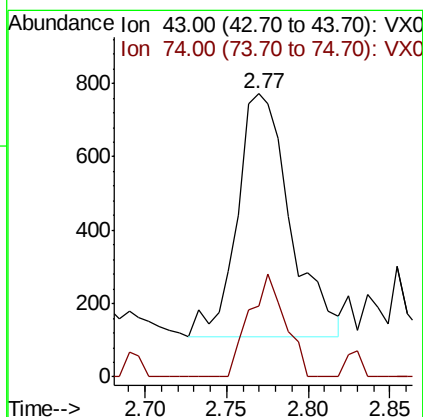
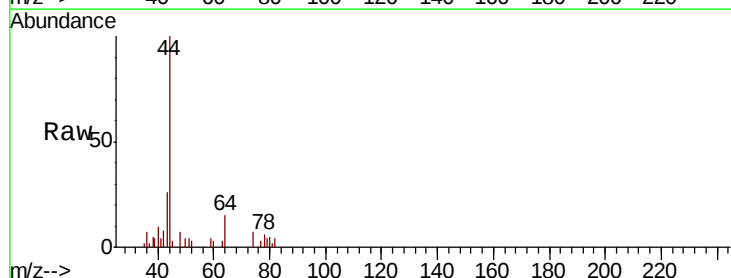
Acq: 10 Sep 2018 11:33

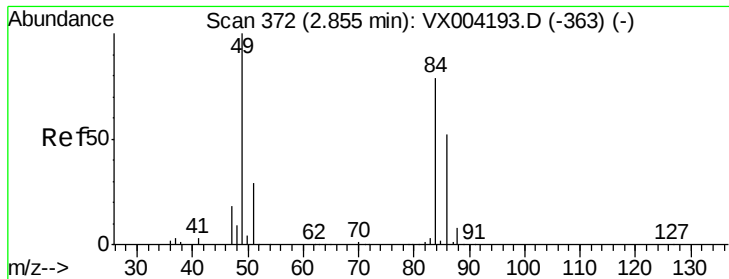
Tgt Ion: 43 Resp: 1496

Ion Ratio Lower Upper

43 100

74 28.8 19.4 29.2





#20

Methylene Chloride

Concen: 0.24 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0910WBL01

Tot Ion: 84 Resp: 890

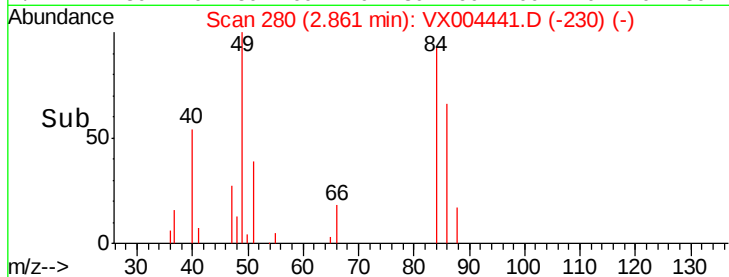
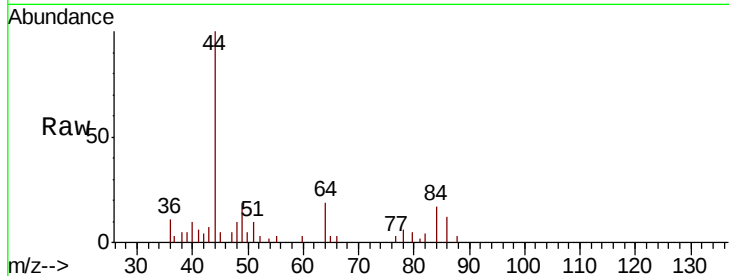
Ion Ratio Lower Upper

84 100

49 107.9 101.2 151.8

51 45.4 29.5 44.3#

86 70.9 52.3 78.5

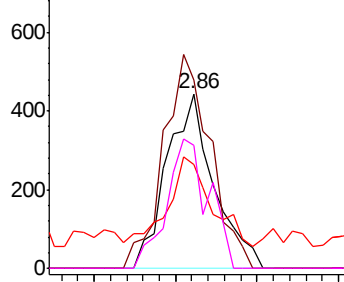


Abundance Ion 83.90 (83.60 to 84.60): VX0

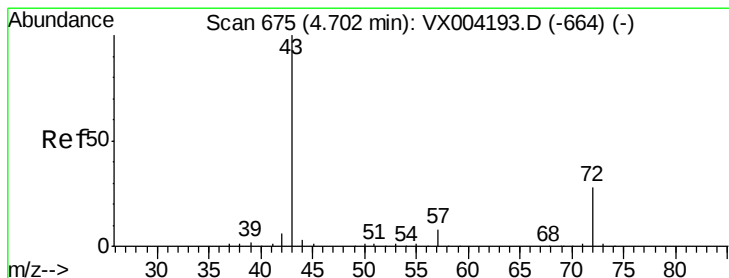
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->



#25

2-Butanone

Concen: Below Cal

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX004441.D

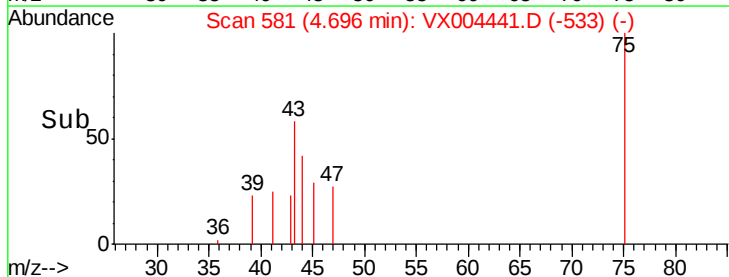
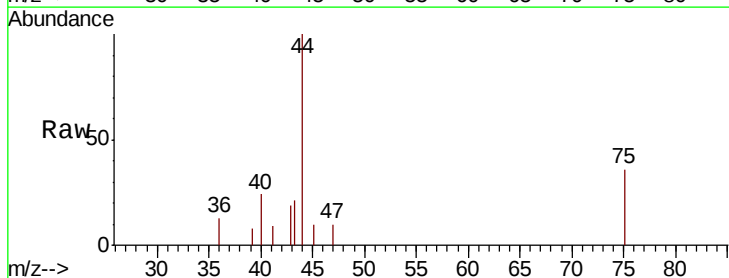
Acq: 10 Sep 2018 11:33

Tgt Ion: 43 Resp: 381

Ion Ratio Lower Upper

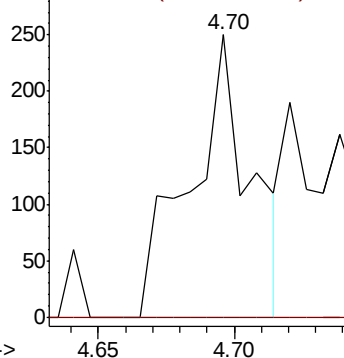
43 100

72 0.0 22.0 33.0#

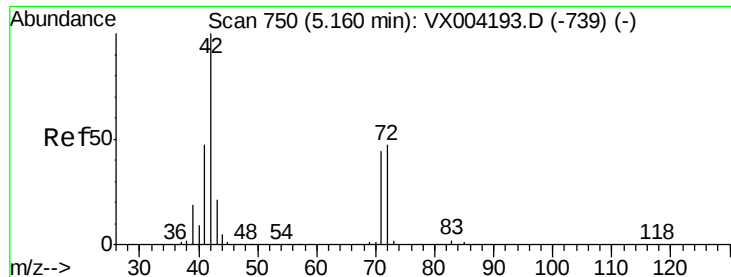


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#29

Tetrahydrofuran

Concen: 0.83 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0910WBL01

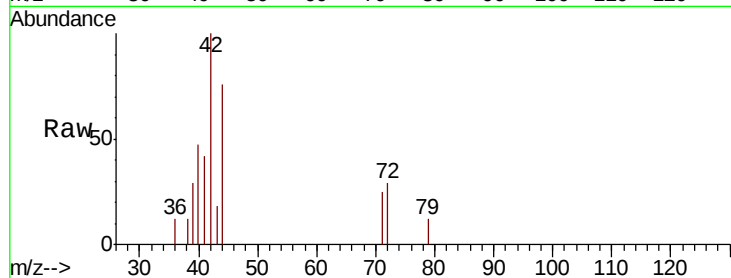
Tot Ion: 42 Resp: 1345

Ion Ratio Lower Upper

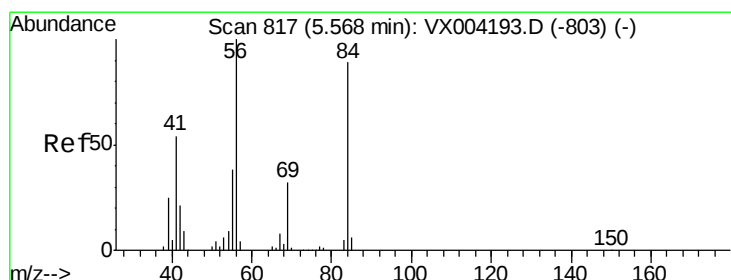
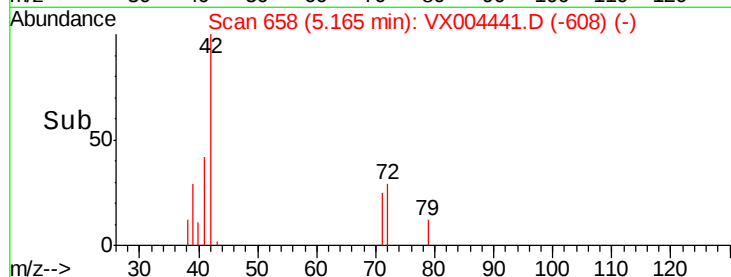
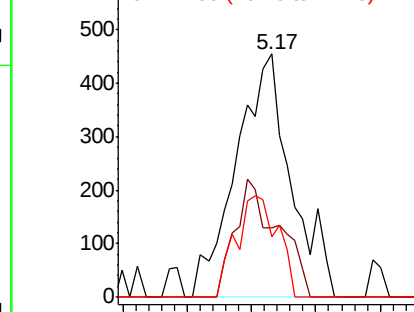
42 100

72 38.4 37.4 56.0

71 31.6 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



#31

Cyclohexane

Concen: 0.95 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

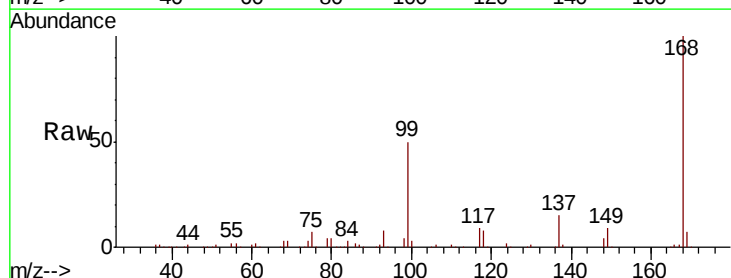
Tgt Ion: 56 Resp: 5060

Ion Ratio Lower Upper

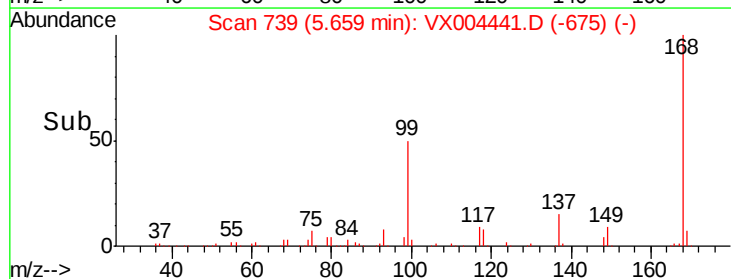
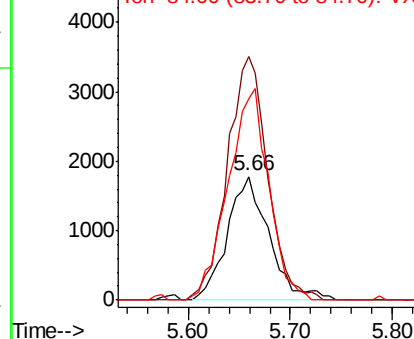
56 100

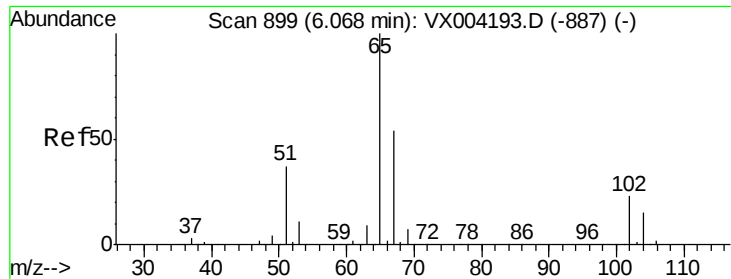
69 197.1 25.4 38.2#

84 163.1 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

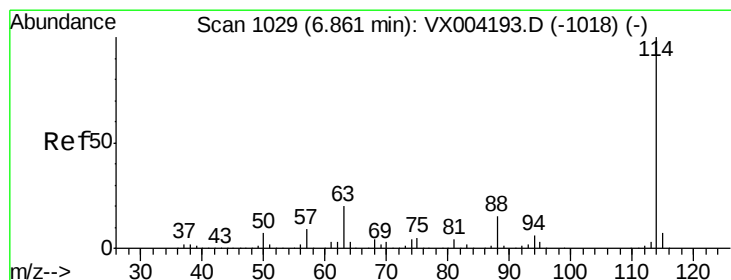
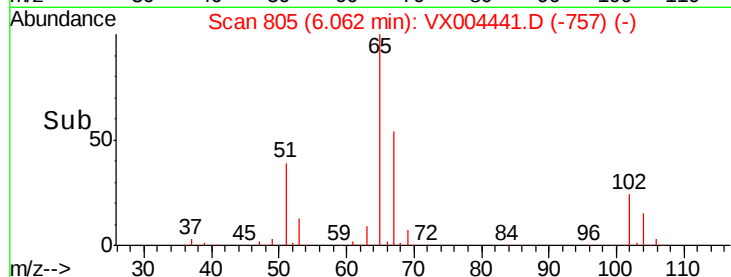
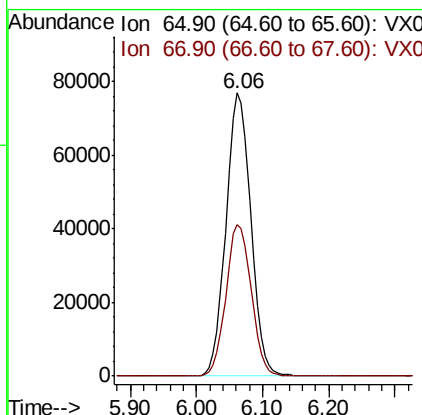
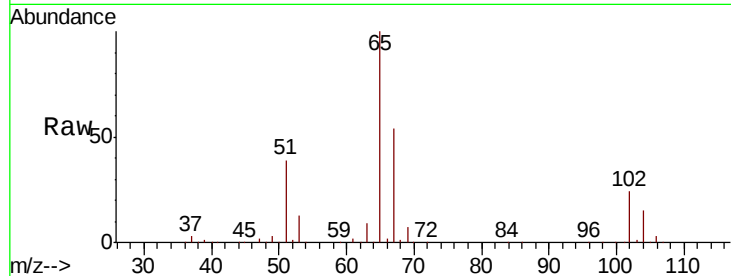




#33
 1,2-Dichloroethane-d4
 Concen: 52.97 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX004441.D
 Acq: 10 Sep 2018 11:33

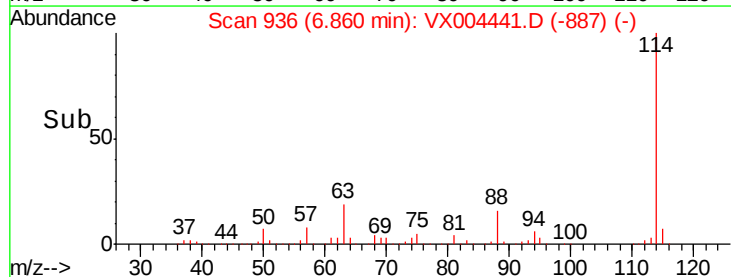
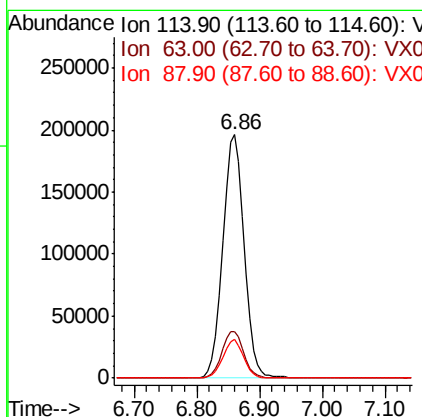
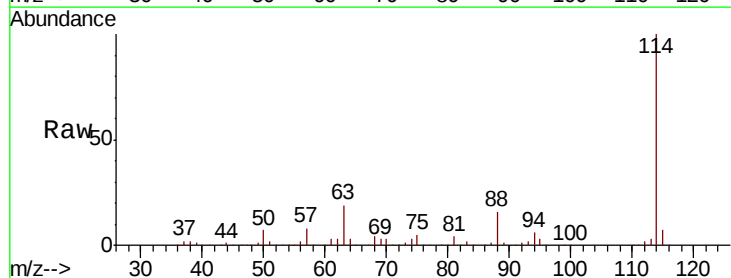
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0910WBL01

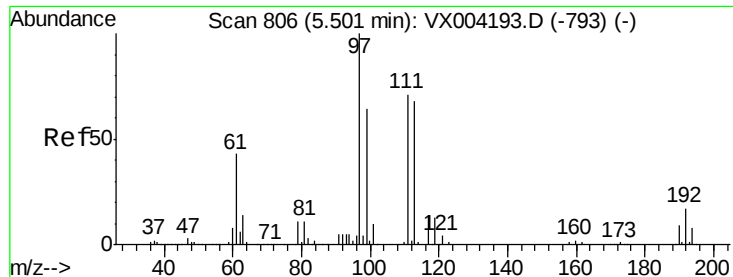
Tot Ion: 65 Resp: 200491
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004441.D
 Acq: 10 Sep 2018 11:33

Tgt Ion: 114 Resp: 461827
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.0
 88 15.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 52.12 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0910WBL01

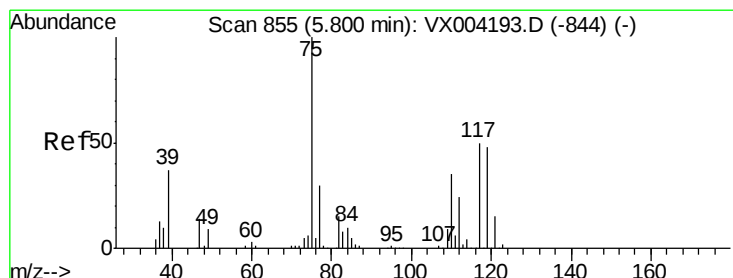
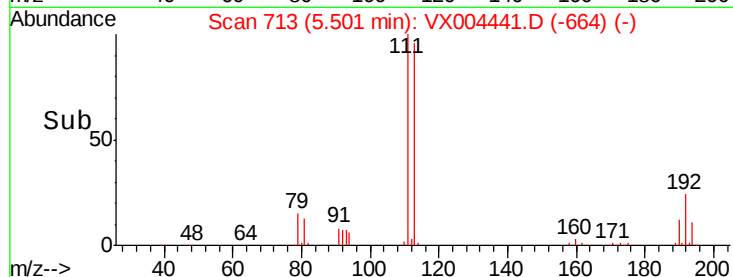
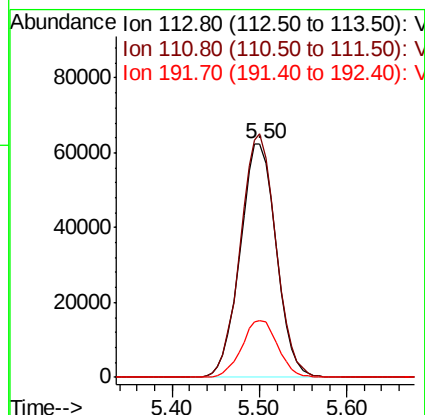
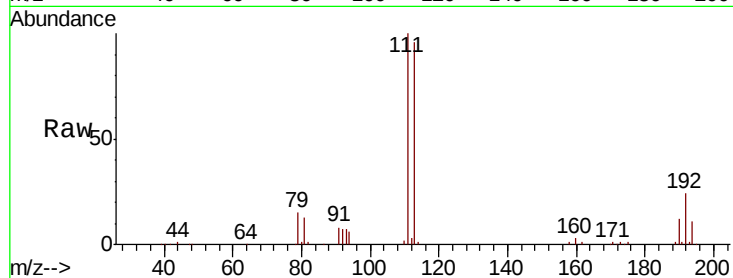
Tot Ion:113 Resp: 179082

Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

192 24.3 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: VX004441.D

Acq: 10 Sep 2018 11:33

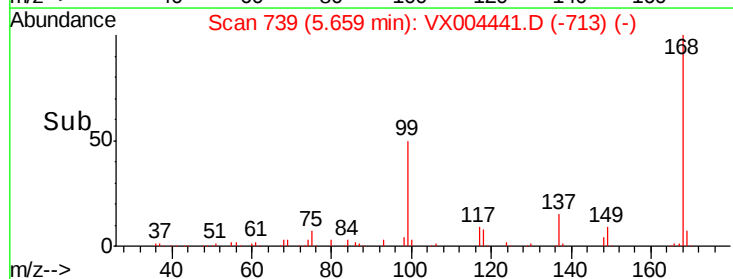
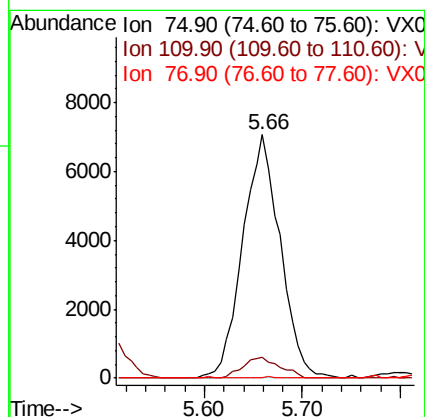
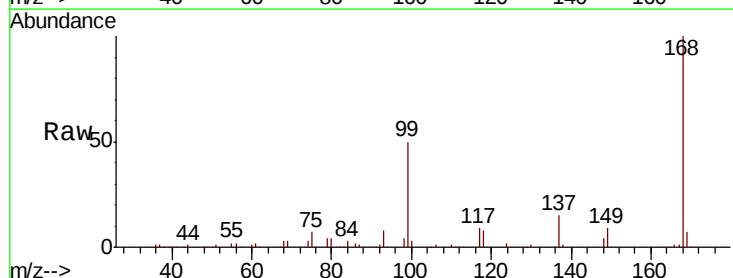
Tgt Ion: 75 Resp: 18802

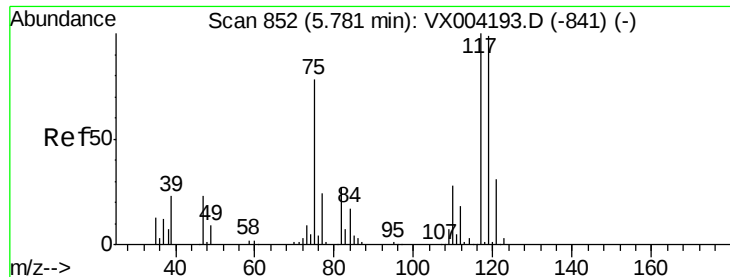
Ion Ratio Lower Upper

75 100

110 8.4 18.0 54.0#

77 0.1 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.18 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0910WBL01

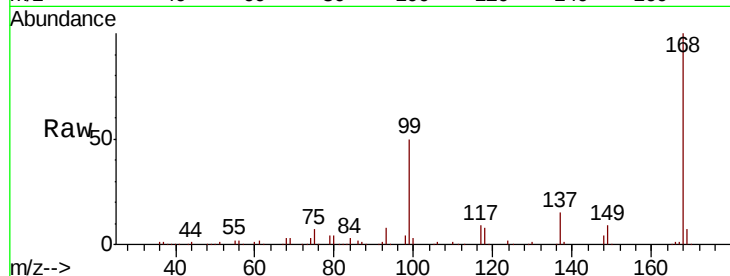
Tot Ion:117 Resp: 25299

Ion Ratio Lower Upper

117 100

119 5.2 78.8 118.2#

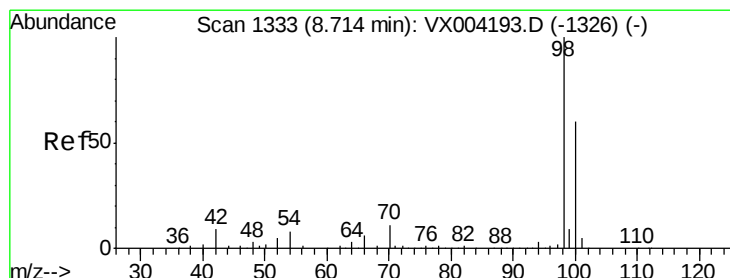
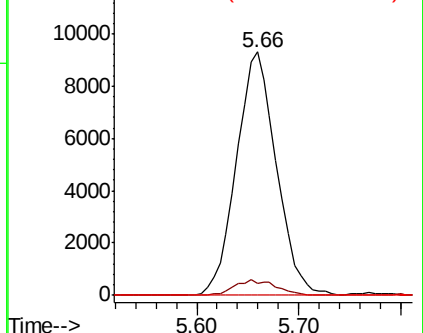
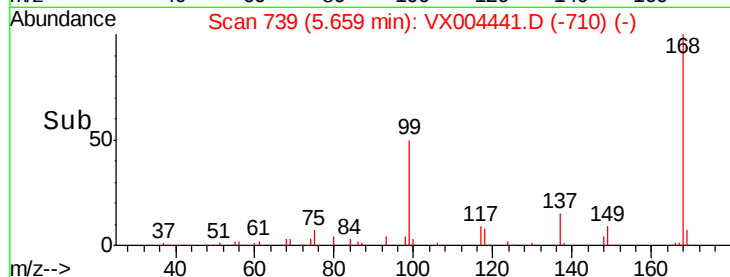
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 50.64 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004441.D

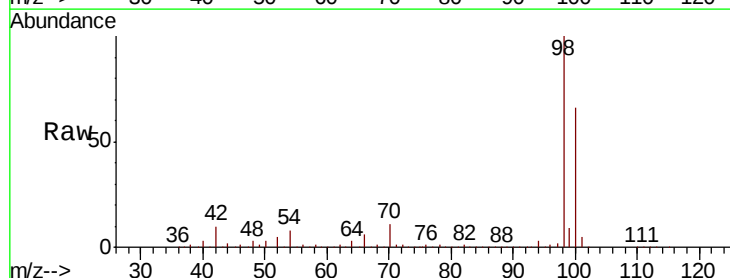
Acq: 10 Sep 2018 11:33

Tgt Ion: 98 Resp: 656753

Ion Ratio Lower Upper

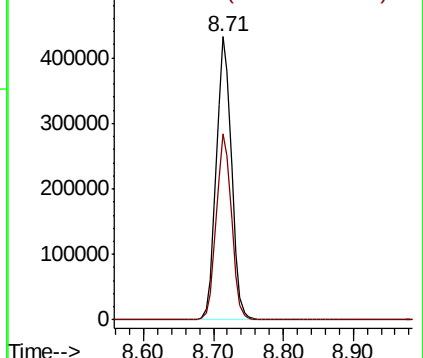
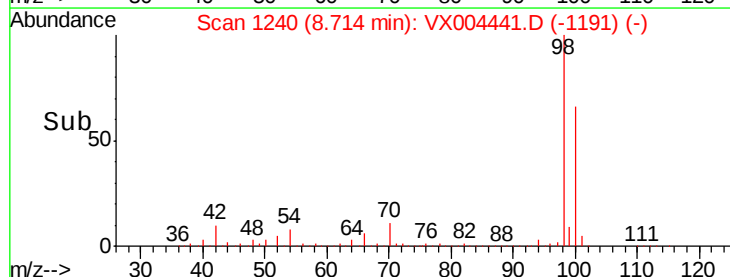
98 100

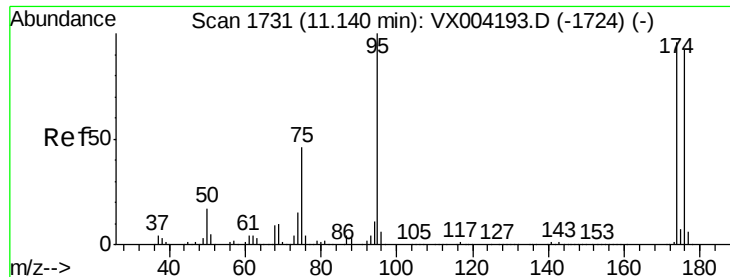
100 65.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

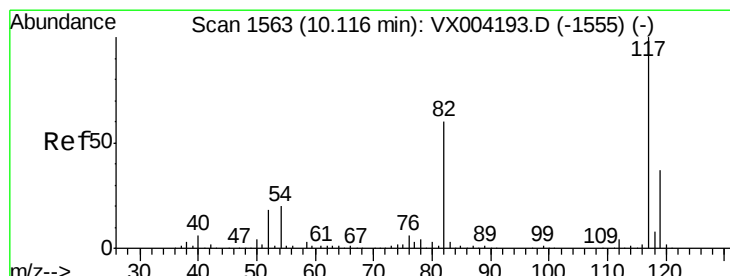
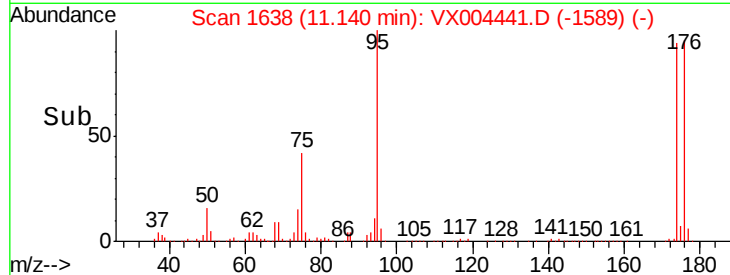
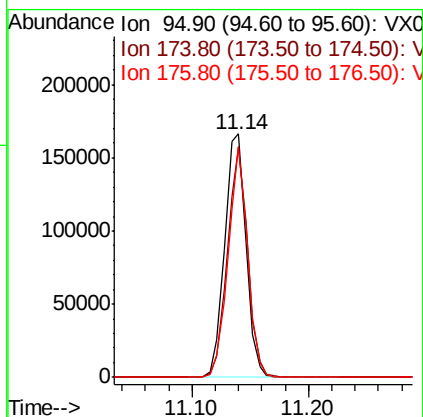
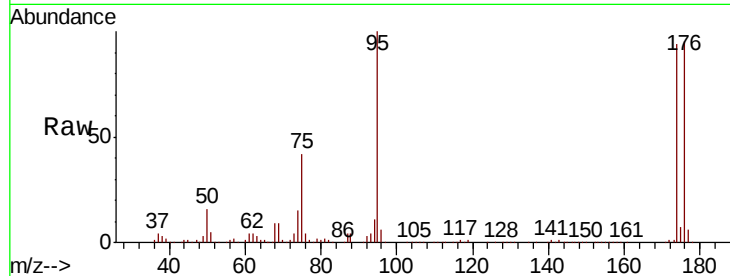




#62
4-Bromofluorobenzene
Concen: 43.62 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004441.D
Acq: 10 Sep 2018 11:33

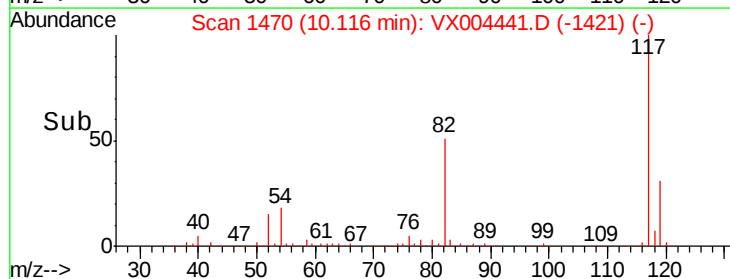
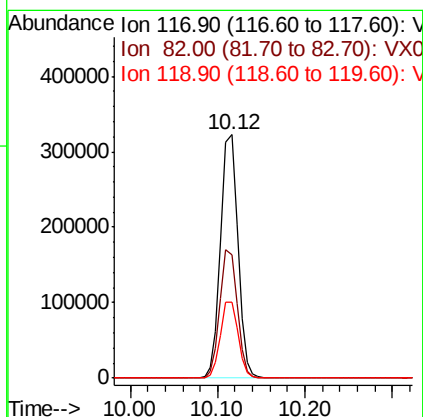
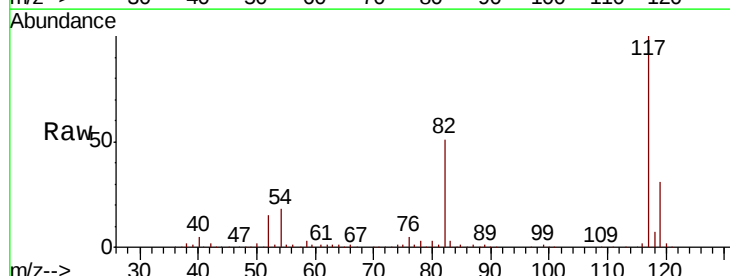
Instrument :
MSVOA_X
ClientSampleId :
VX0910WBL01

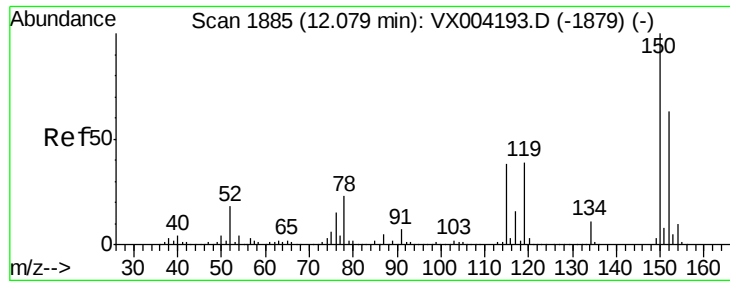
Tot Ion: 95 Resp: 211077
Ion Ratio Lower Upper
95 100
174 89.8 0.0 185.2
176 86.7 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004441.D
Acq: 10 Sep 2018 11:33

Tgt Ion: 117 Resp: 441850
Ion Ratio Lower Upper
117 100
82 50.8 47.8 71.6
119 31.4 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: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0910WBL01

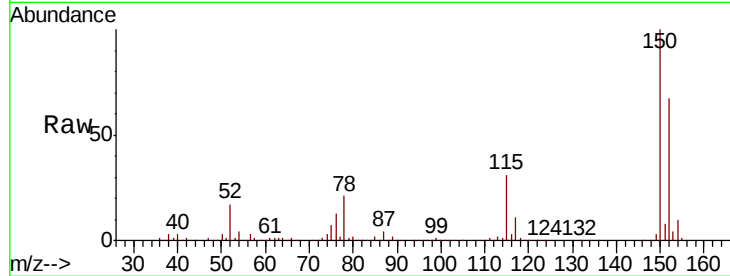
Tot Ion:152 Resp: 221174

Ion Ratio Lower Upper

152 100

115 52.4 39.0 117.0

150 158.0 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

400000

300000

200000

100000

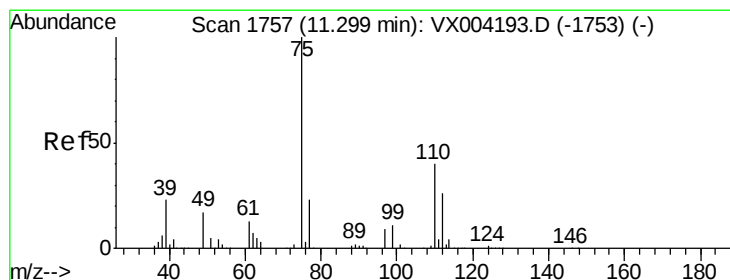
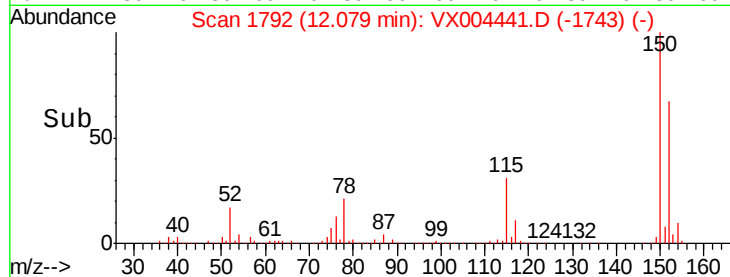
0

12.08

12.00

12.10

Time-->



#76

1,2,3-Trichloropropane

Concen: 20.78 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX004441.D

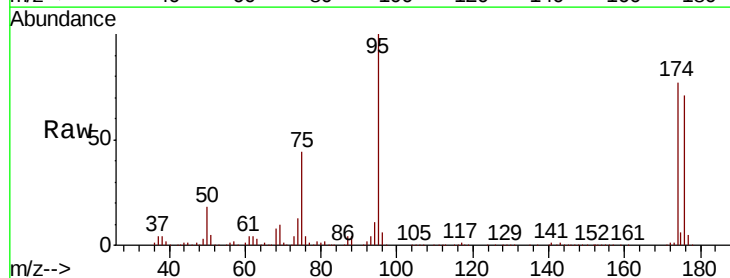
Acq: 10 Sep 2018 11:33

Tgt Ion: 75 Resp: 93459

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

80000

60000

40000

20000

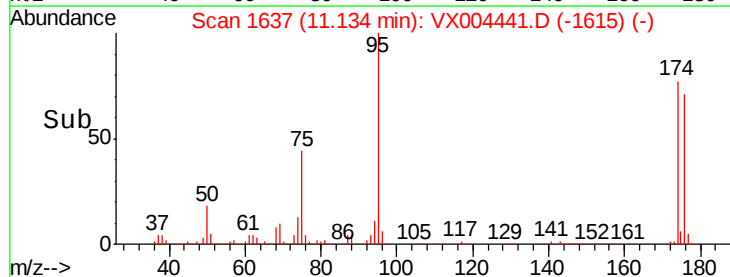
0

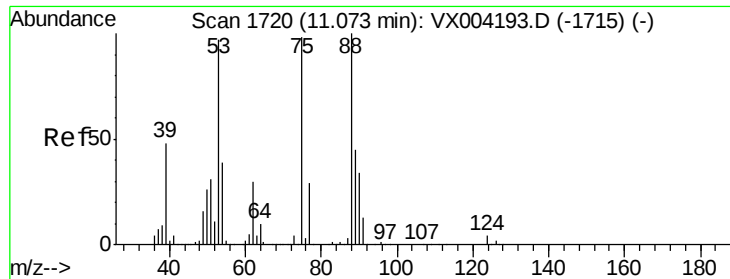
11.13

11.10

11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 67.41 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX004441.D

Acq: 10 Sep 2018 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0910WBL01

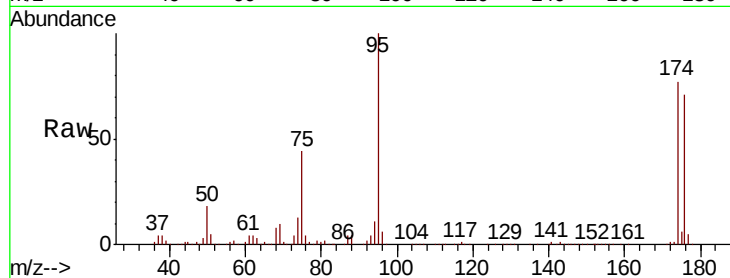
Tot Ion: 75 Resp: 93459

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

