

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090618\
 Data File : VX004385.D
 Acq On : 06 Sep 2018 15:18
 Operator : JC/MD
 Sample : J4794-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-180904

Quant Time: Sep 07 04:45:08 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	314524	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	498077	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	471350	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	258191	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	212078	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
35) Dibromofluoromethane	5.50	113	188762	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
50) Toluene-d8	8.71	98	698547	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
62) 4-Bromofluorobenzene	11.14	95	246161	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	

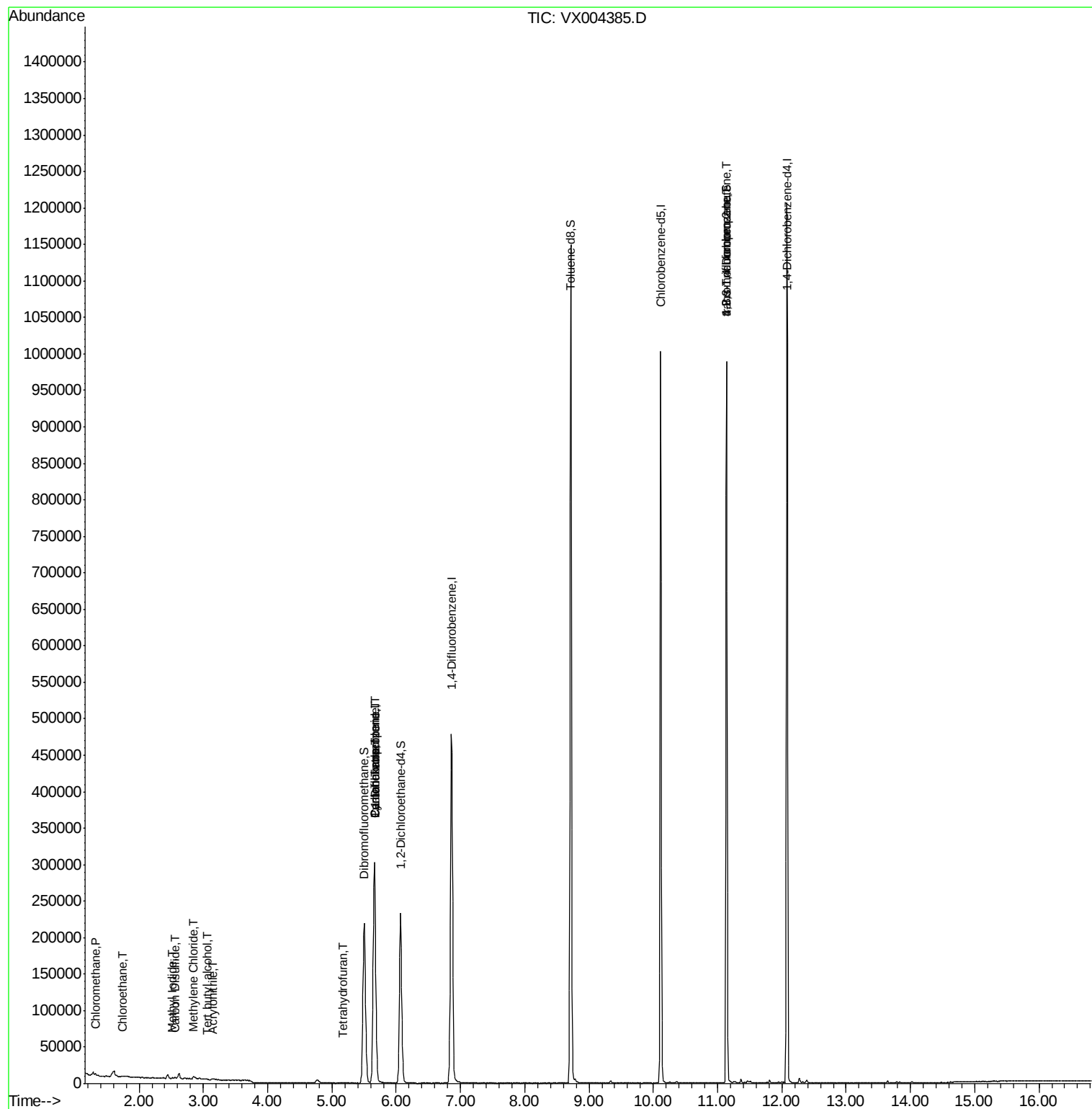
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1269	0.60	ug/l	96
5) Bromomethane	1.65	94	1895	Below Cal		83
6) Chloroethane	1.74	64	511	1.12	ug/l #	54
10) Methyl Iodide	2.52	142	1385	4.58	ug/l	96
11) Tert butyl alcohol	3.07	59	230	0.26	ug/l	96
15) Acrylonitrile	3.14	53	554	0.26	ug/l #	59
16) Acetone	2.45	43	5670	Below Cal		98
17) Carbon Disulfide	2.57	76	1692	0.98	ug/l #	92
20) Methylene Chloride	2.85	84	1261	0.32	ug/l	88
25) 2-Butanone	4.72	43	506	Below Cal	#	47
29) Tetrahydrofuran	5.18	42	806	0.46	ug/l #	59
31) Cyclohexane	5.67	56	5659	0.98	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20775	3.71	ug/l #	49
38) Carbon Tetrachloride	5.67	117	26934	5.11	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	115832	22.06	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	115832	71.57	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: VX004385.D

Acq: 06 Sep 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

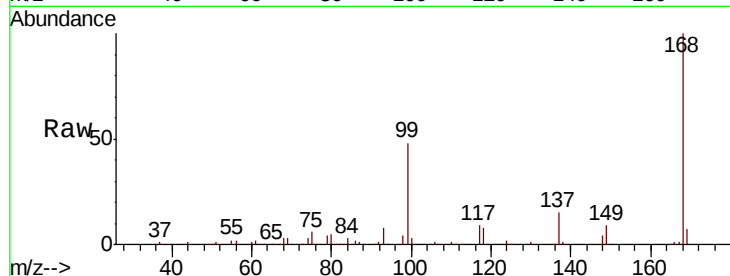
TB-01-180904

Tot Ion:168 Resp: 314524

Ion Ratio Lower Upper

168 100

99 48.3 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

120000

100000

80000

60000

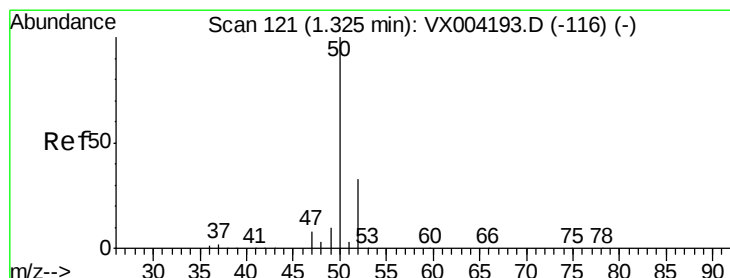
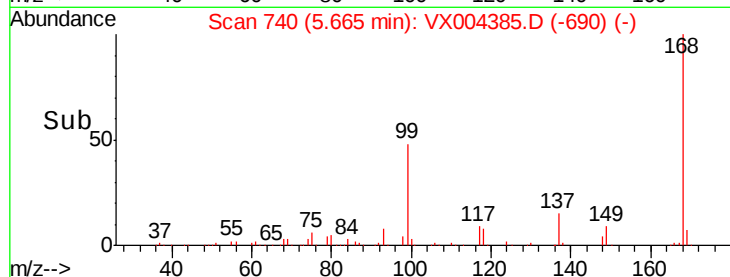
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.60 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004385.D

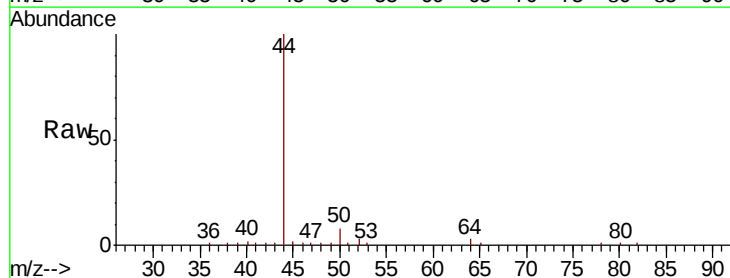
Acq: 06 Sep 2018 15:18

Tgt Ion: 50 Resp: 1269

Ion Ratio Lower Upper

50 100

52 34.8 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

800

600

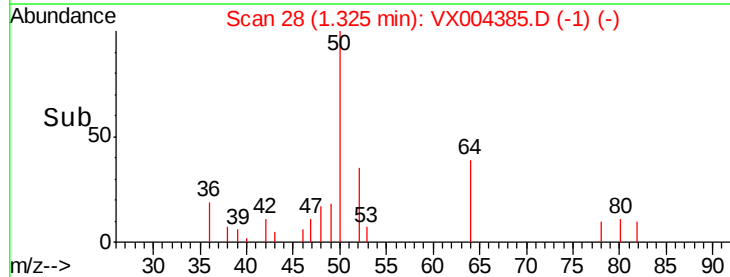
400

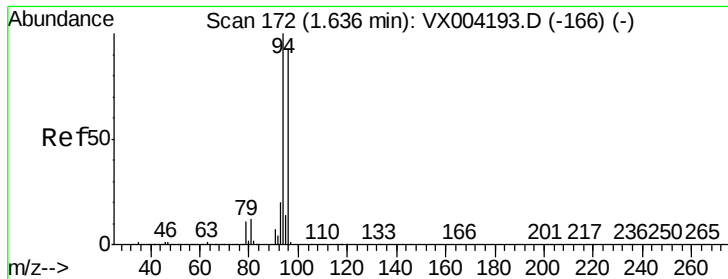
200

0

Time-->

1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004385.D

Acq: 06 Sep 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

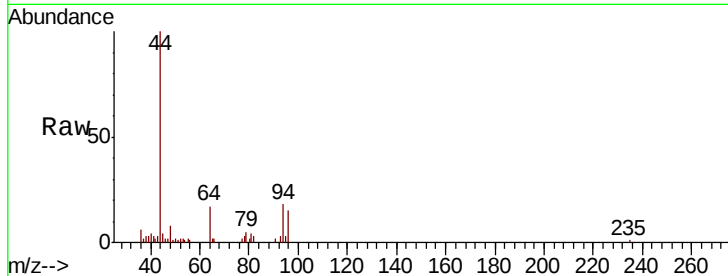
TB-01-180904

Tot Ion: 94 Resp: 1895

Ion Ratio Lower Upper

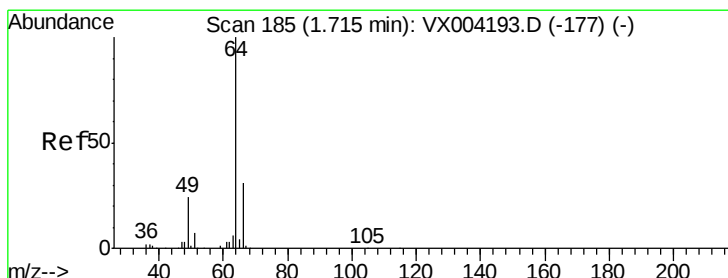
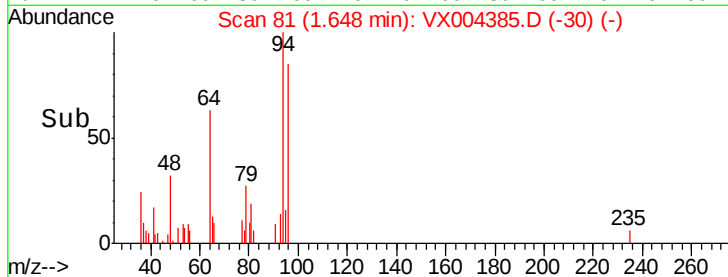
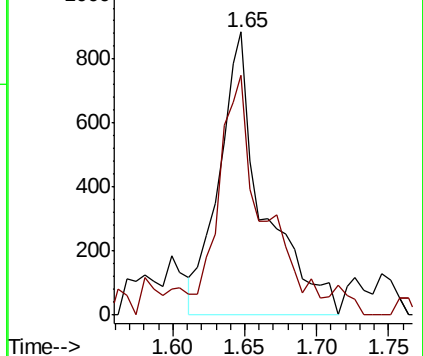
94 100

96 77.2 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: 1.12 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX004385.D

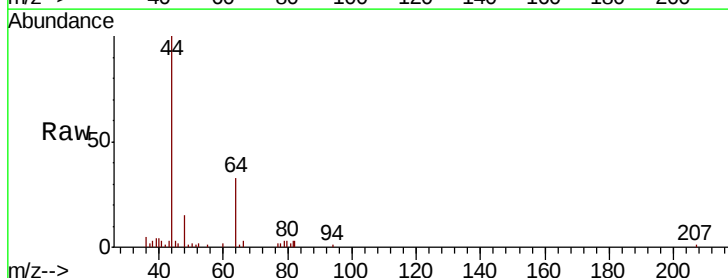
Acq: 06 Sep 2018 15:18

Tgt Ion: 64 Resp: 511

Ion Ratio Lower Upper

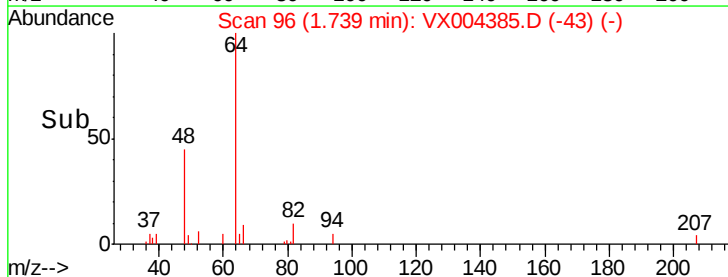
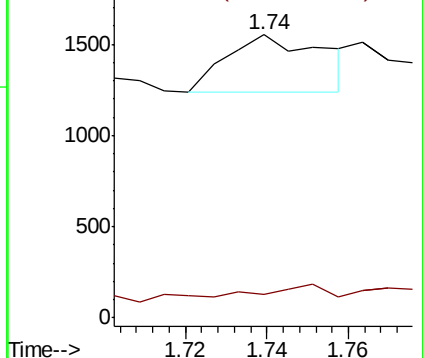
64 100

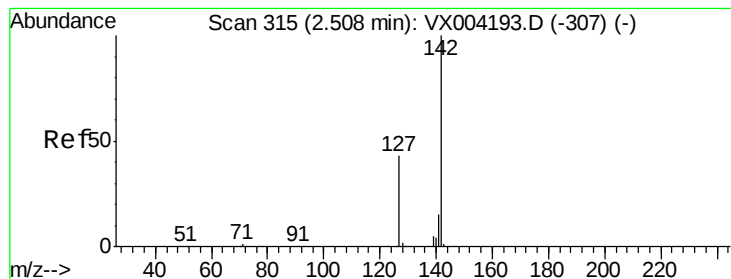
66 5.8 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 4.58 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004385.D

Acq: 06 Sep 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180904

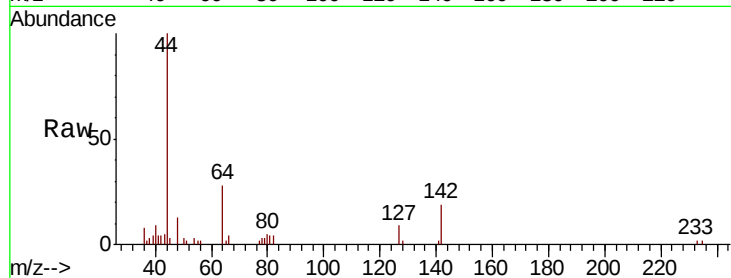
Tot Ion:142 Resp: 1385

Ion Ratio Lower Upper

142 100

127 44.7 33.8 50.6

141 12.5 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): V

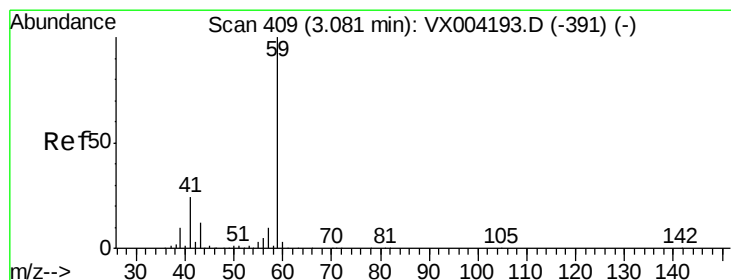
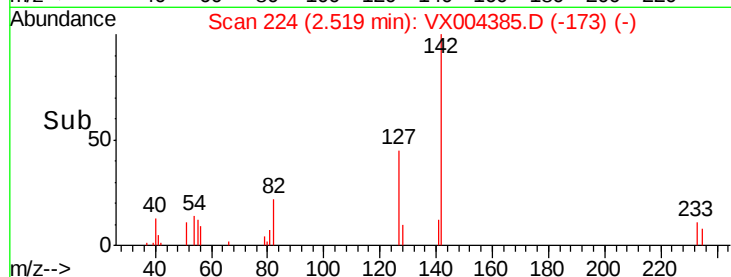
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.52

Time-->

2.45 2.50 2.55 2.60



#11

Tert butyl alcohol

Concen: 0.26 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX004385.D

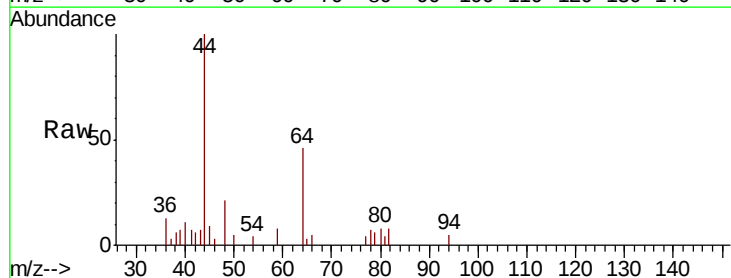
Acq: 06 Sep 2018 15:18

Tgt Ion: 59 Resp: 230

Ion Ratio Lower Upper

59 100

57 8.7 8.2 12.4



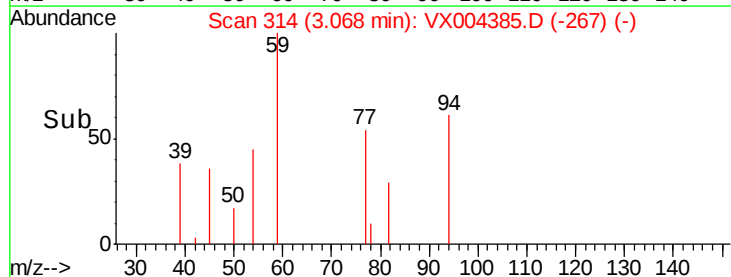
Abundance Ion 59.00 (58.70 to 59.70): VX0

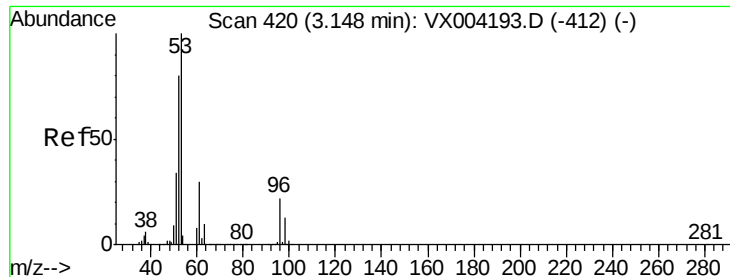
Ion 57.00 (56.70 to 57.70): VX0

3.07

Time-->

3.04 3.06 3.08 3.10 3.12





#15

Acrylonitrile

Concen: 0.26 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX004385.D

Acq: 06 Sep 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180904

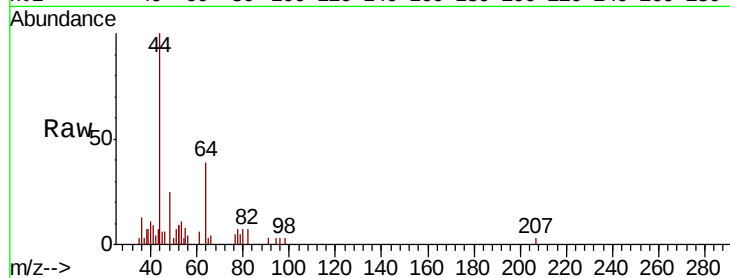
Tot Ion: 53 Resp: 554

Ion Ratio Lower Upper

53 100

52 128.9 65.2 97.8#

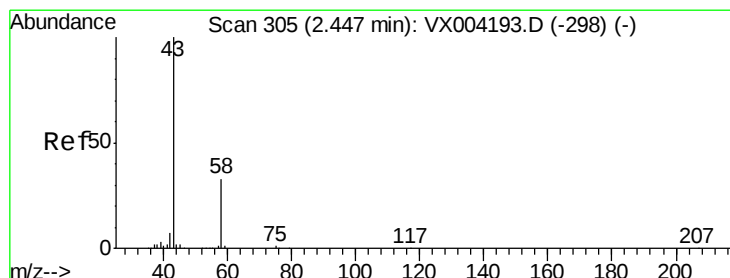
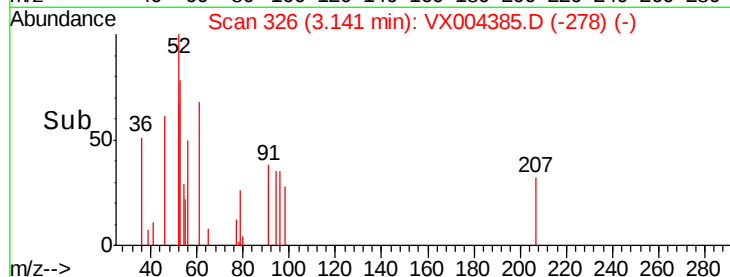
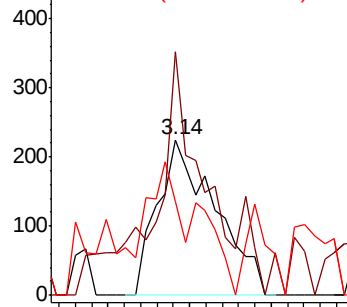
51 27.4 28.2 42.2#



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: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004385.D

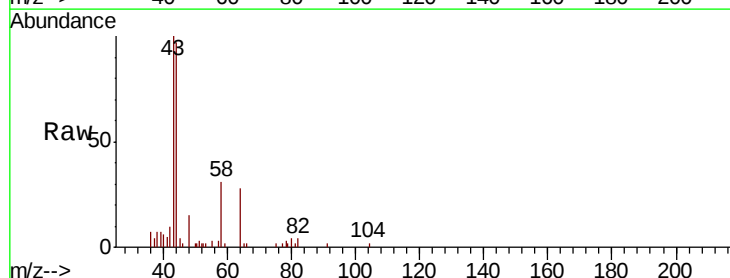
Acq: 06 Sep 2018 15:18

Tgt Ion: 43 Resp: 5670

Ion Ratio Lower Upper

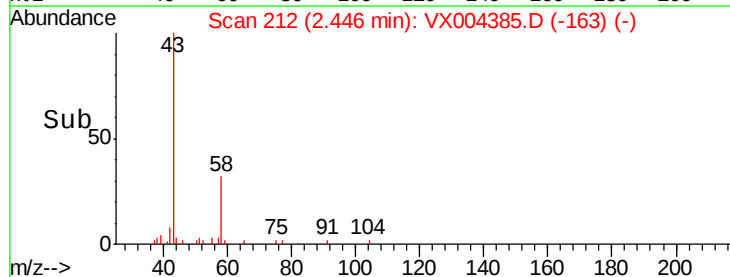
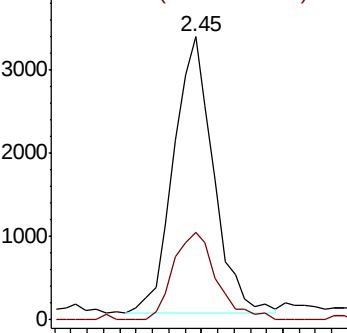
43 100

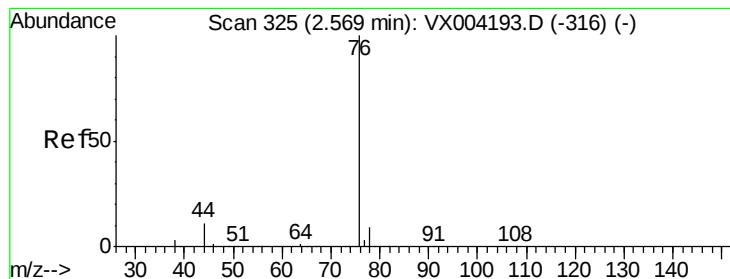
58 31.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.98 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004385.D

Acq: 06 Sep 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

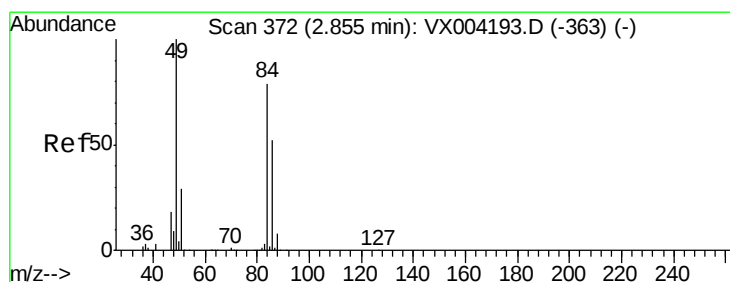
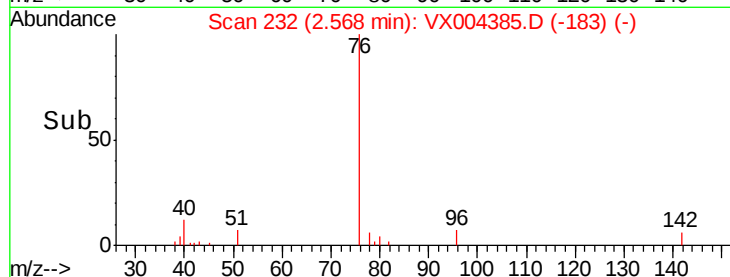
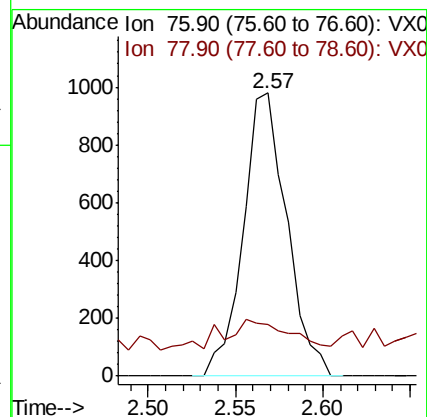
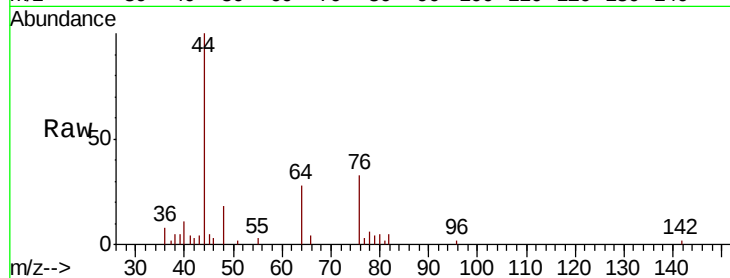
TB-01-180904

Tot Ion: 76 Resp: 1692

Ion Ratio Lower Upper

76 100

78 5.9 7.0 10.6#



#20

Methylene Chloride

Concen: 0.32 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX004385.D

Acq: 06 Sep 2018 15:18

Tgt Ion: 84 Resp: 1261

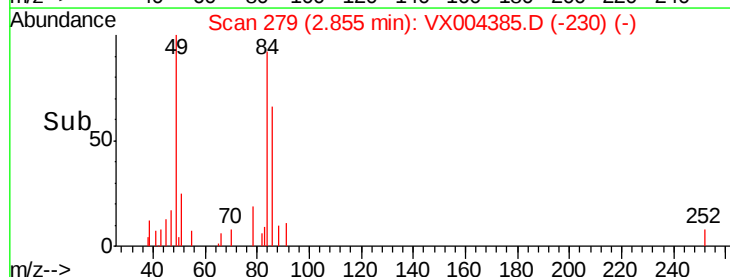
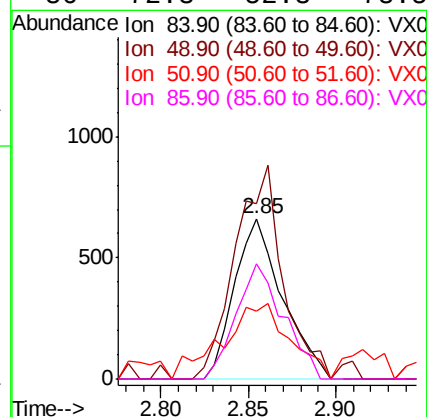
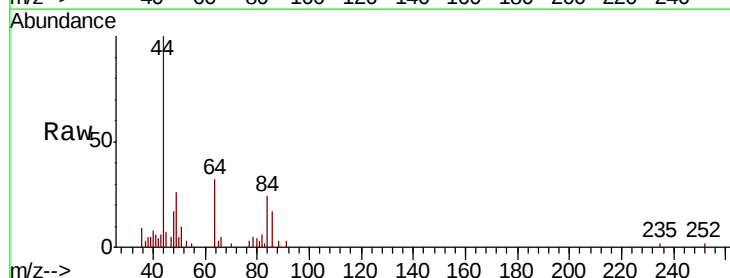
Ion Ratio Lower Upper

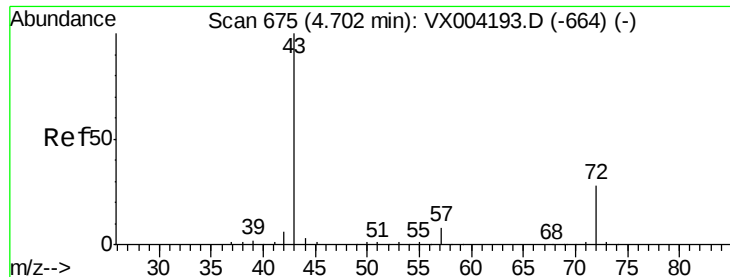
84 100

49 109.2 101.2 151.8

51 30.9 29.5 44.3

86 72.3 52.3 78.5

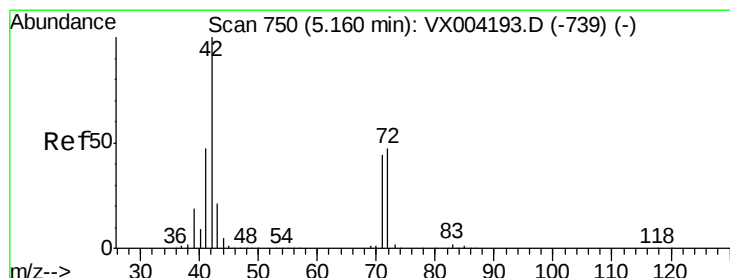
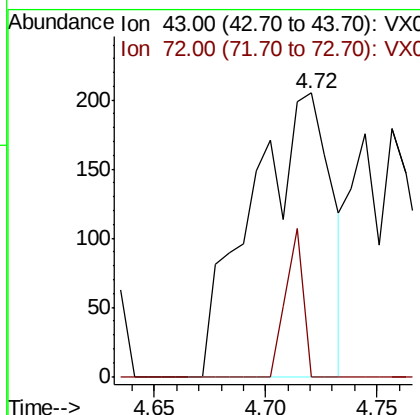
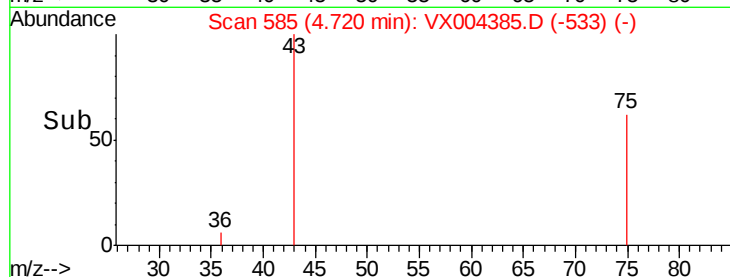
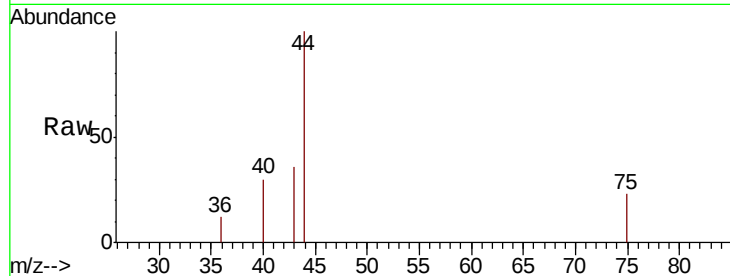




#25
2-Butanone
Concen: Below Cal
RT: 4.72 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX004385.D
Acq: 06 Sep 2018 15:18

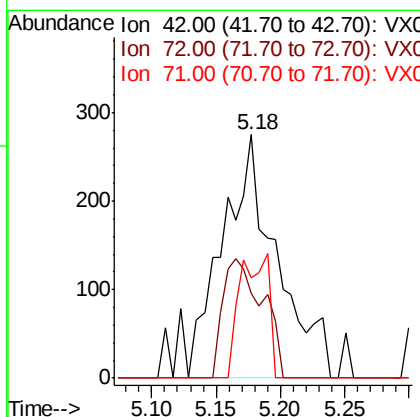
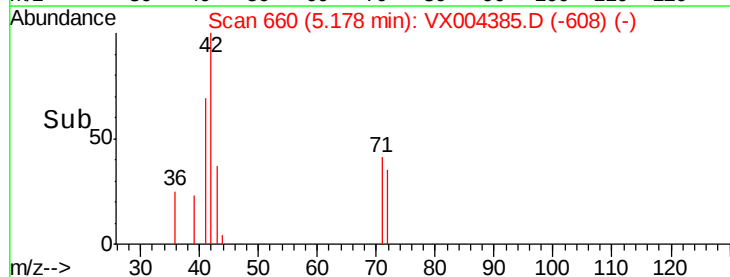
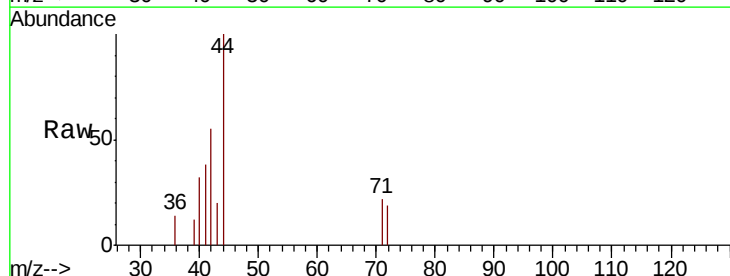
Instrument :
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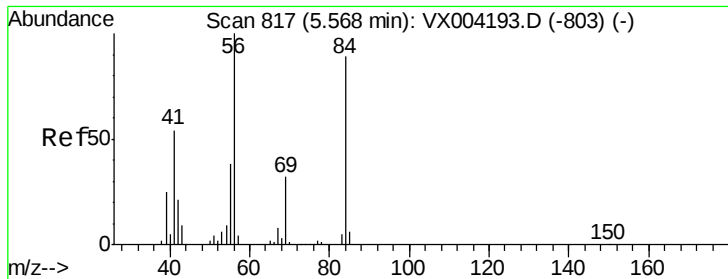
Tot Ion: 43 Resp: 506
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.46 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX004385.D
Acq: 06 Sep 2018 15:18

Tgt Ion: 42 Resp: 806
Ion Ratio Lower Upper
42 100
72 36.0 37.4 56.0#
71 0.0 34.5 51.7#

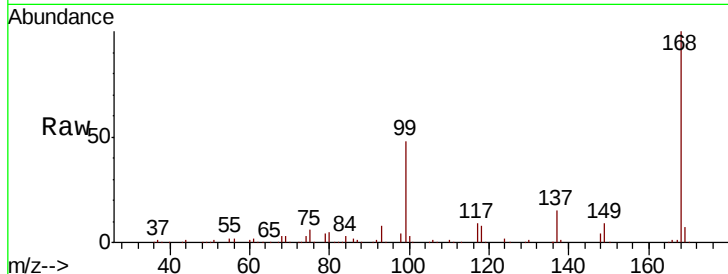




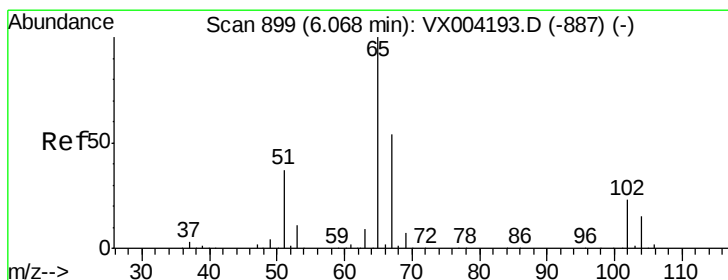
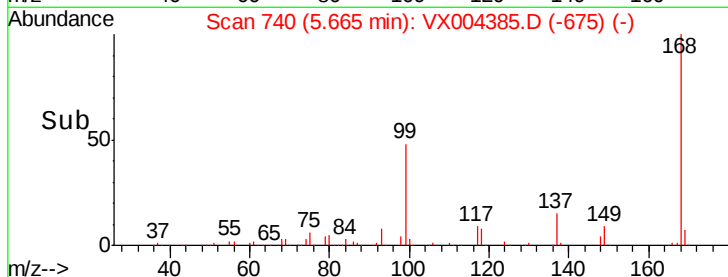
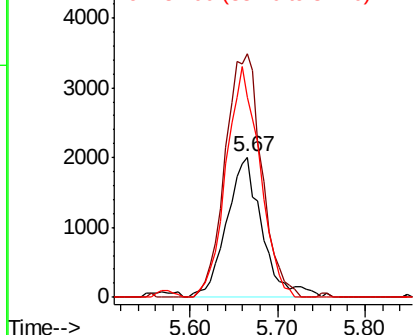
#31
Cyclohexane
Concen: 0.98 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX004385.D
Acq: 06 Sep 2018 15:18

Instrument :
MSVOA_X
ClientSampleId :
TB-01-180904

Tot Ion: 56 Resp: 5659
Ion Ratio Lower Upper
56 100
69 174.0 25.4 38.2#
84 143.4 71.4 107.2#

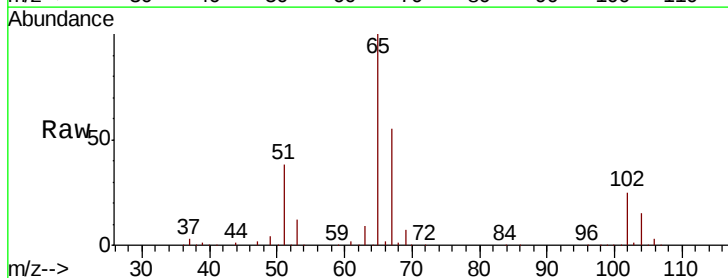


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

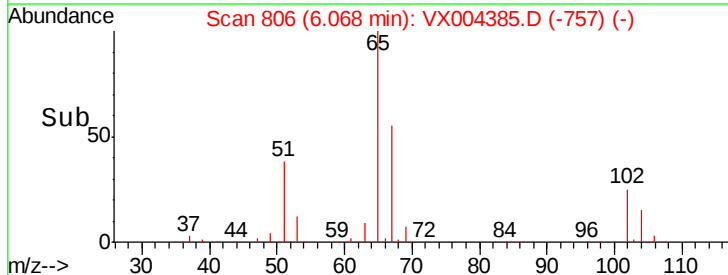
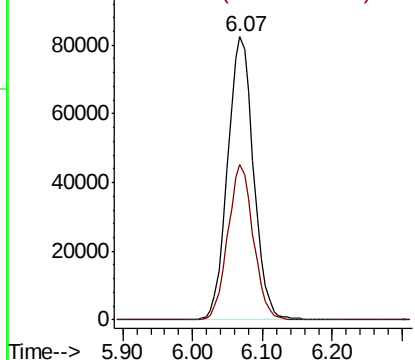


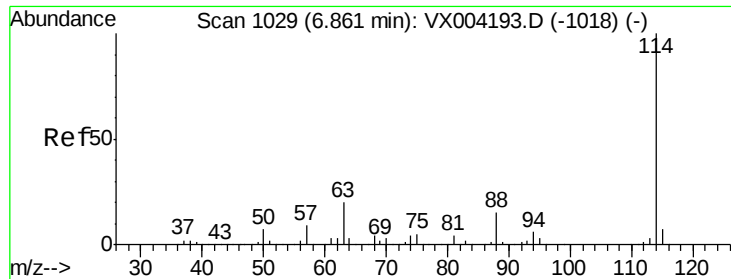
#33
1,2-Dichloroethane-d4
Concen: 51.73 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004385.D
Acq: 06 Sep 2018 15:18

Tgt Ion: 65 Resp: 212078
Ion Ratio Lower Upper
65 100
67 53.9 0.0 106.8



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

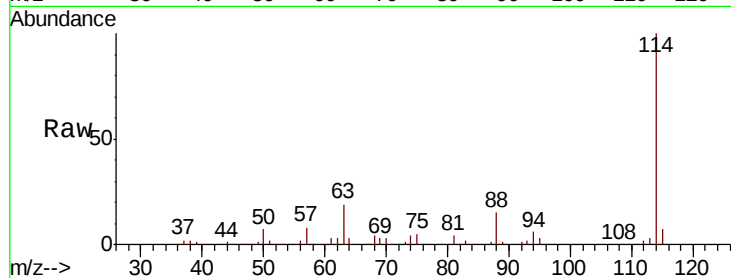




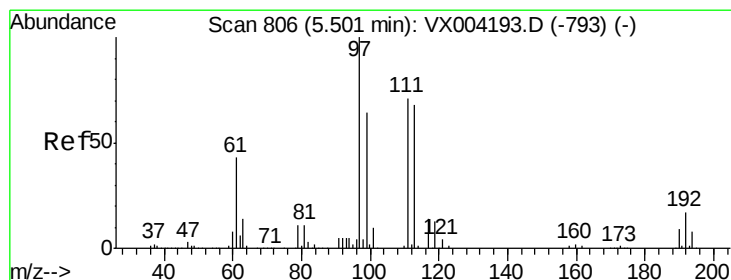
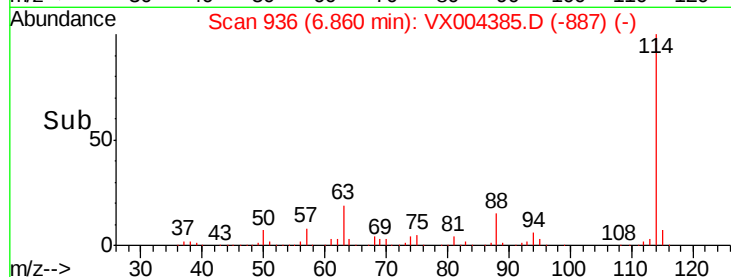
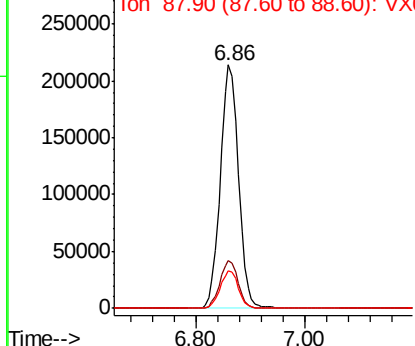
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004385.D
 Acq: 06 Sep 2018 15:18

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-180904

Tot Ion:114 Resp: 498077
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 15.4 0.0 30.4

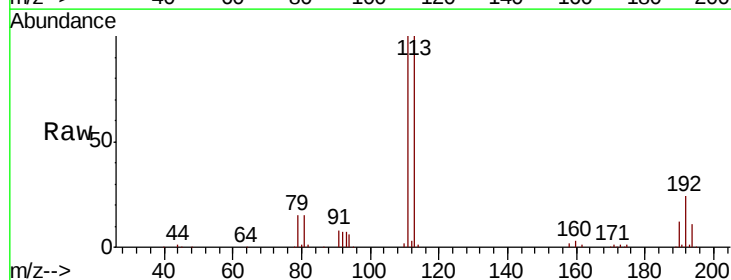


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

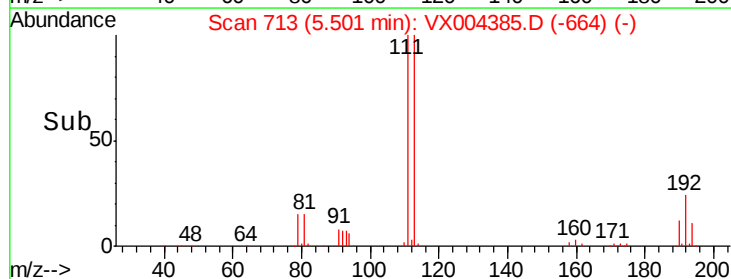
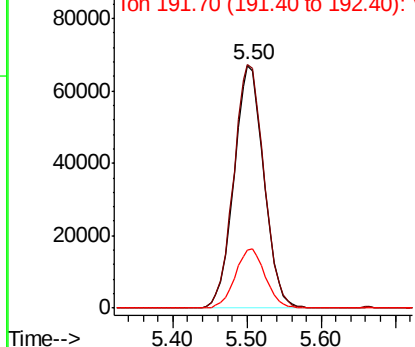


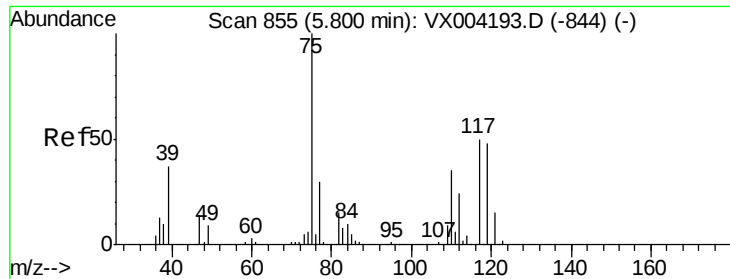
#35
 Dibromofluoromethane
 Concen: 50.94 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004385.D
 Acq: 06 Sep 2018 15:18

Tgt Ion:113 Resp: 188762
 Ion Ratio Lower Upper
 113 100
 111 101.8 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

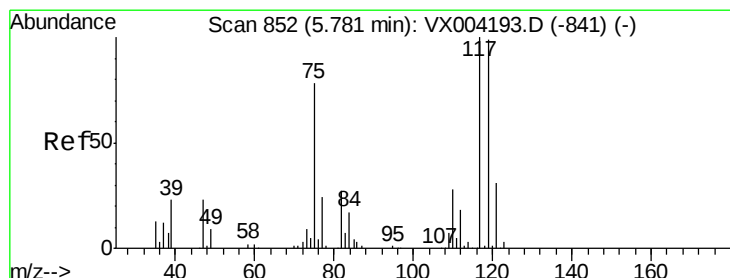
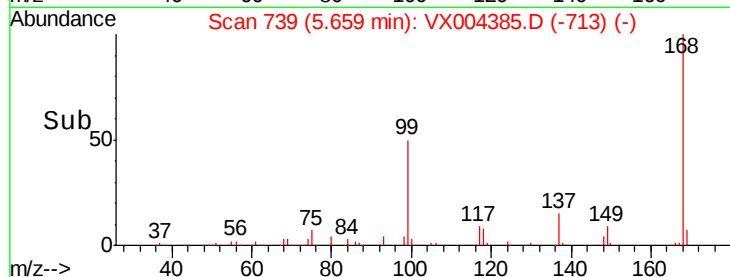
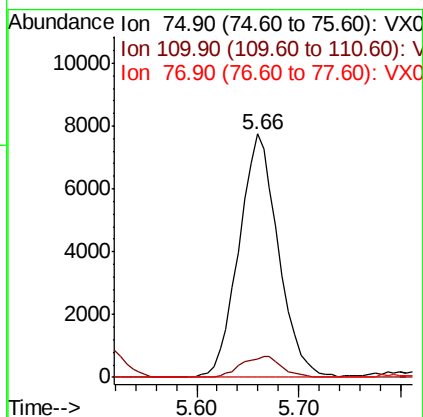
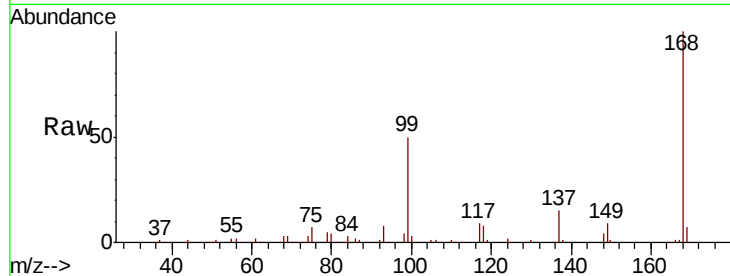




#36
 1,1-Dichloropropene
 Concen: 3.71 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004385.D
 Acq: 06 Sep 2018 15:18

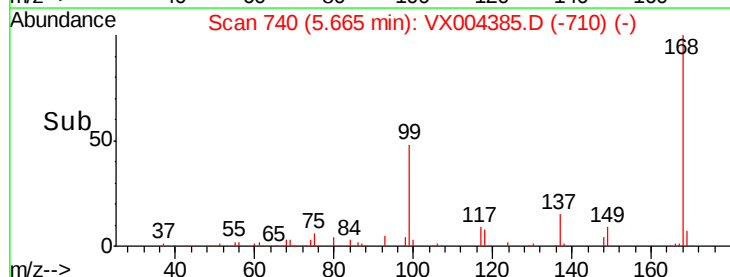
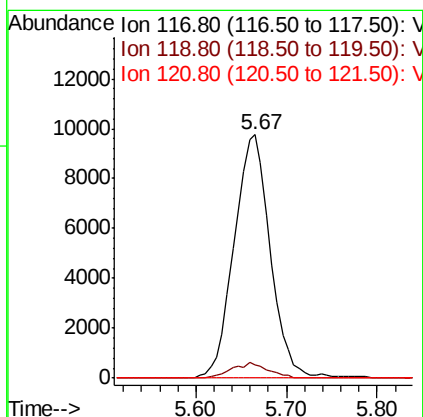
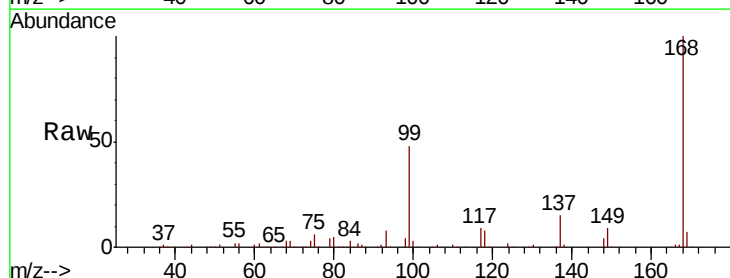
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-180904

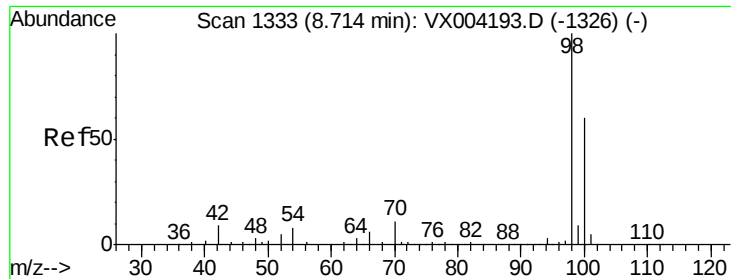
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.0	54.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.11 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX004385.D
 Acq: 06 Sep 2018 15:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	78.8	118.2#
121	0.0	24.9	37.3#





#50

Toluene-d8

Concen: 49.94 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004385.D

Acq: 06 Sep 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

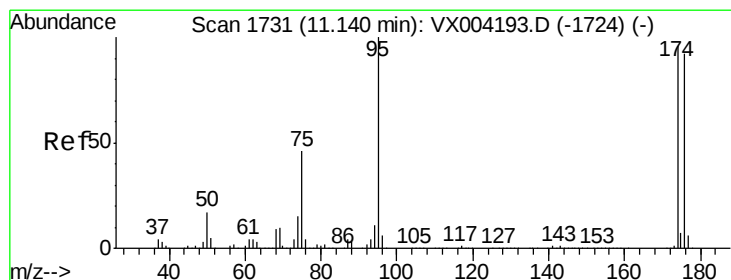
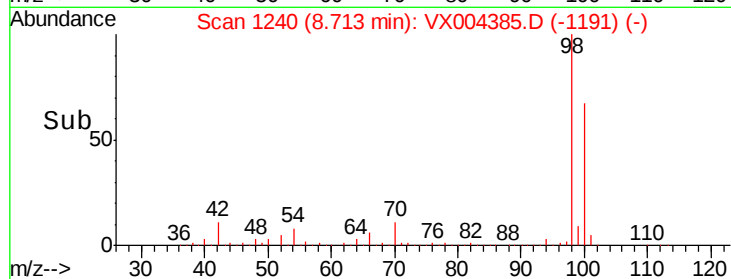
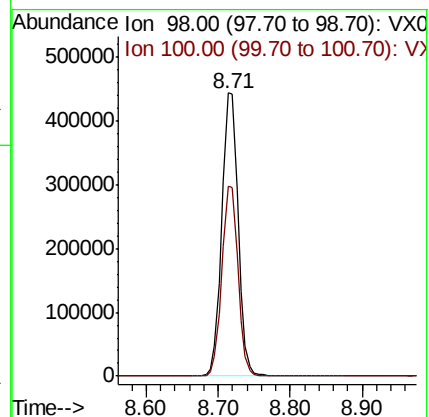
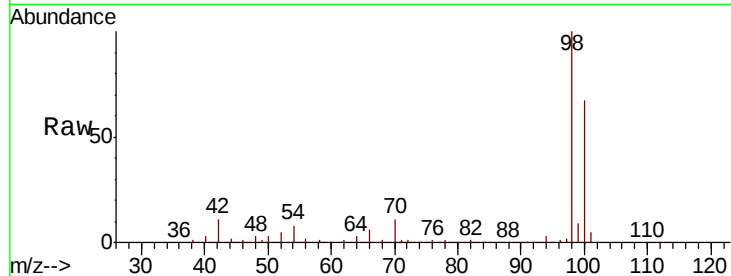
TB-01-180904

Tot Ion: 98 Resp: 698547

Ion Ratio Lower Upper

98 100

100 66.1 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 47.17 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004385.D

Acq: 06 Sep 2018 15:18

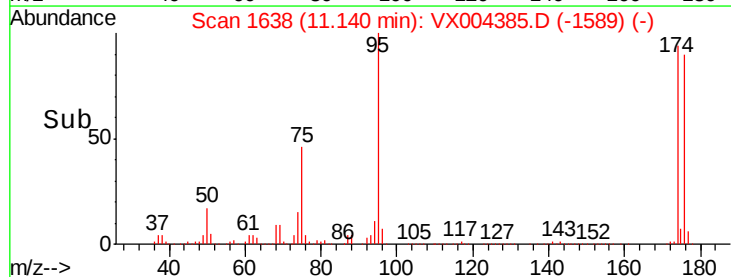
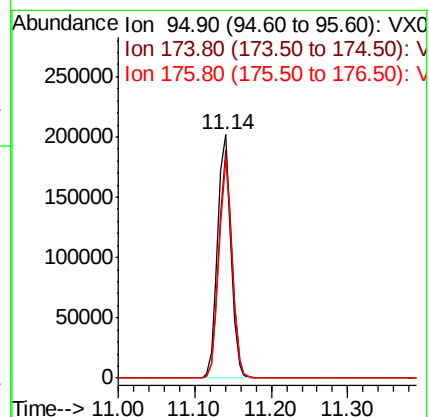
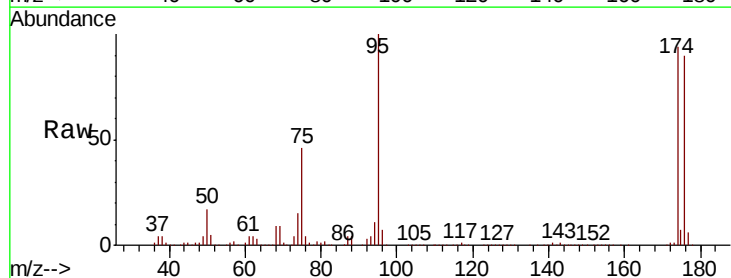
Tgt Ion: 95 Resp: 246161

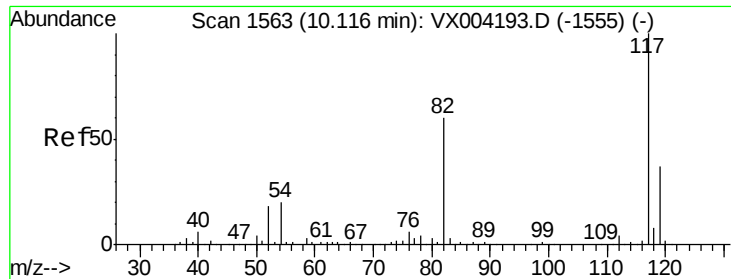
Ion Ratio Lower Upper

95 100

174 92.0 0.0 185.2

176 88.4 0.0 178.6

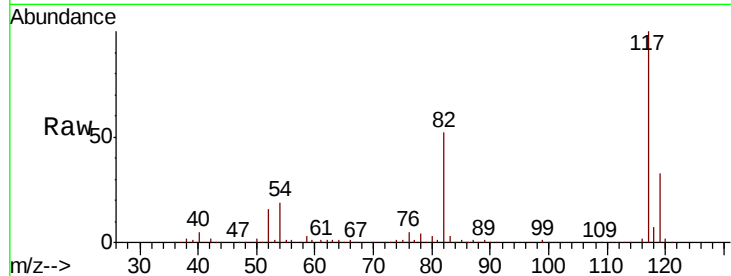




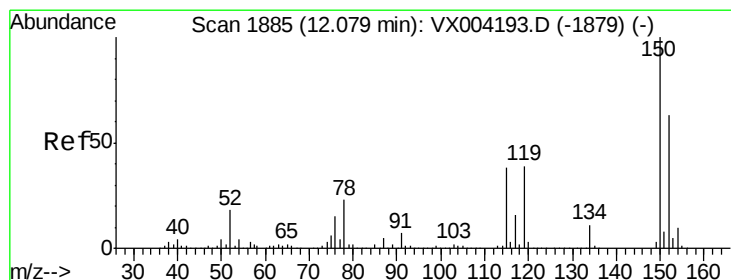
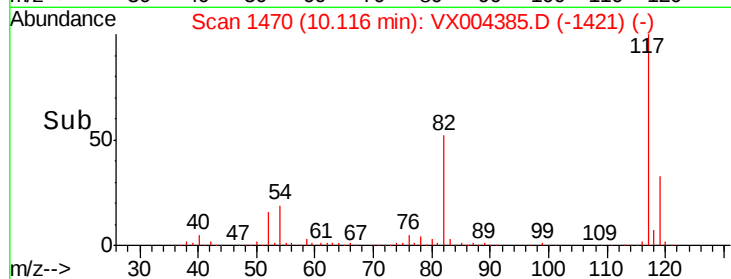
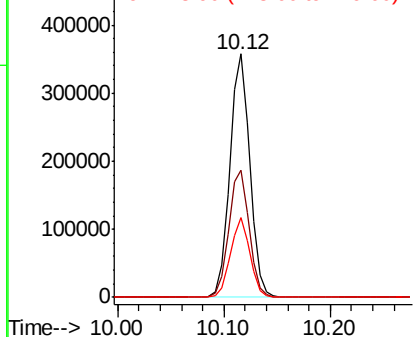
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004385.D
Acq: 06 Sep 2018 15:18

Instrument :
MSVOA_X
ClientSampleId :
TB-01-180904

Tot Ion:117 Resp: 471350
Ion Ratio Lower Upper
117 100
82 52.0 47.8 71.6
119 32.6 29.3 43.9

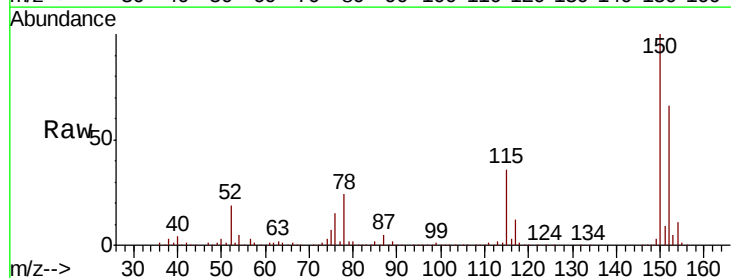


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

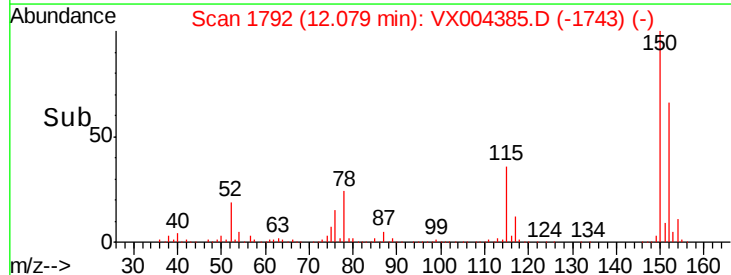
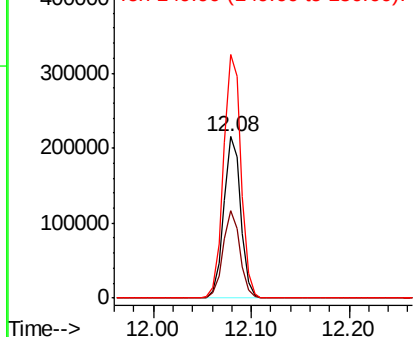


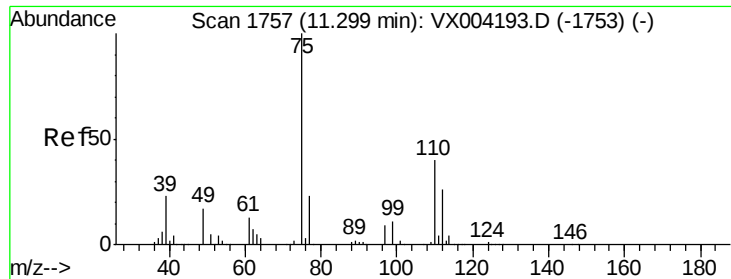
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004385.D
Acq: 06 Sep 2018 15:18

Tgt Ion:152 Resp: 258191
Ion Ratio Lower Upper
152 100
115 53.9 39.0 117.0
150 155.5 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: 22.06 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004385.D

Acq: 06 Sep 2018 15:18

Instrument :

MSVOA_X

ClientSampleId :

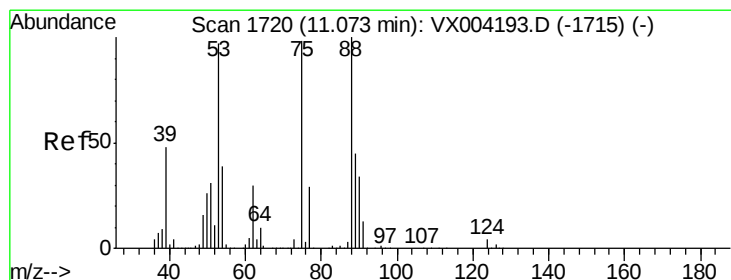
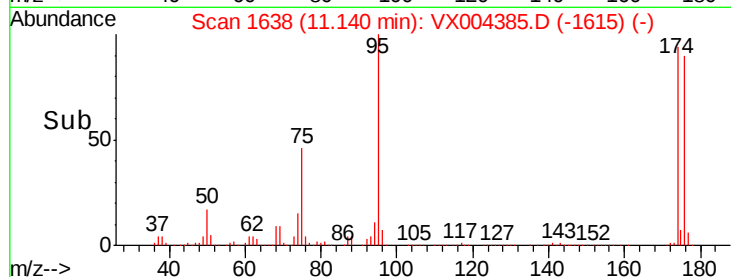
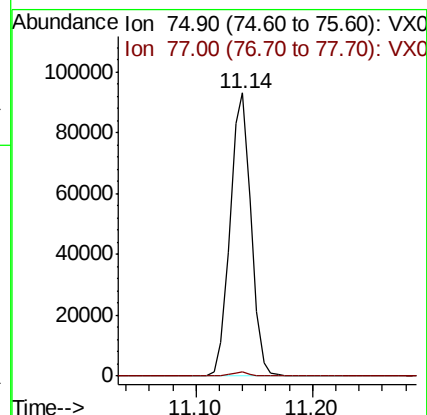
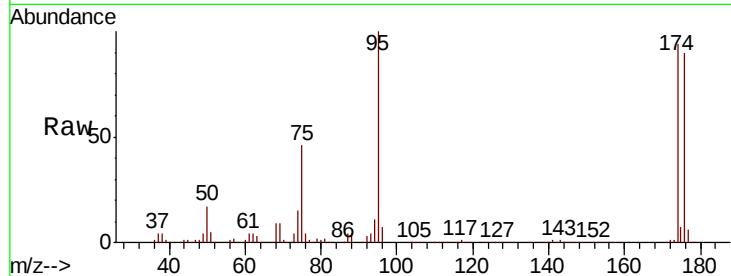
TB-01-180904

Tot Ion: 75 Resp: 115832

Ion Ratio Lower Upper

75 100

77 1.2 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.57 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004385.D

Acq: 06 Sep 2018 15:18

Tgt Ion: 75 Resp: 115832

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

