

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041018\
 Data File : VX000754.D
 Acq On : 10 Apr 2018 17:22
 Operator : JC/MD
 Sample : I.BLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 I.BLK

Quant Time: Apr 11 08:15:45 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	319579	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	434764	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	399135	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	236044	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	158256	39.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.54%	
35) Dibromofluoromethane	5.51	113	133474	39.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.70%	
50) Toluene-d8	8.72	98	498958	40.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.02%	
62) 4-Bromofluorobenzene	11.14	95	201346	39.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.04%	

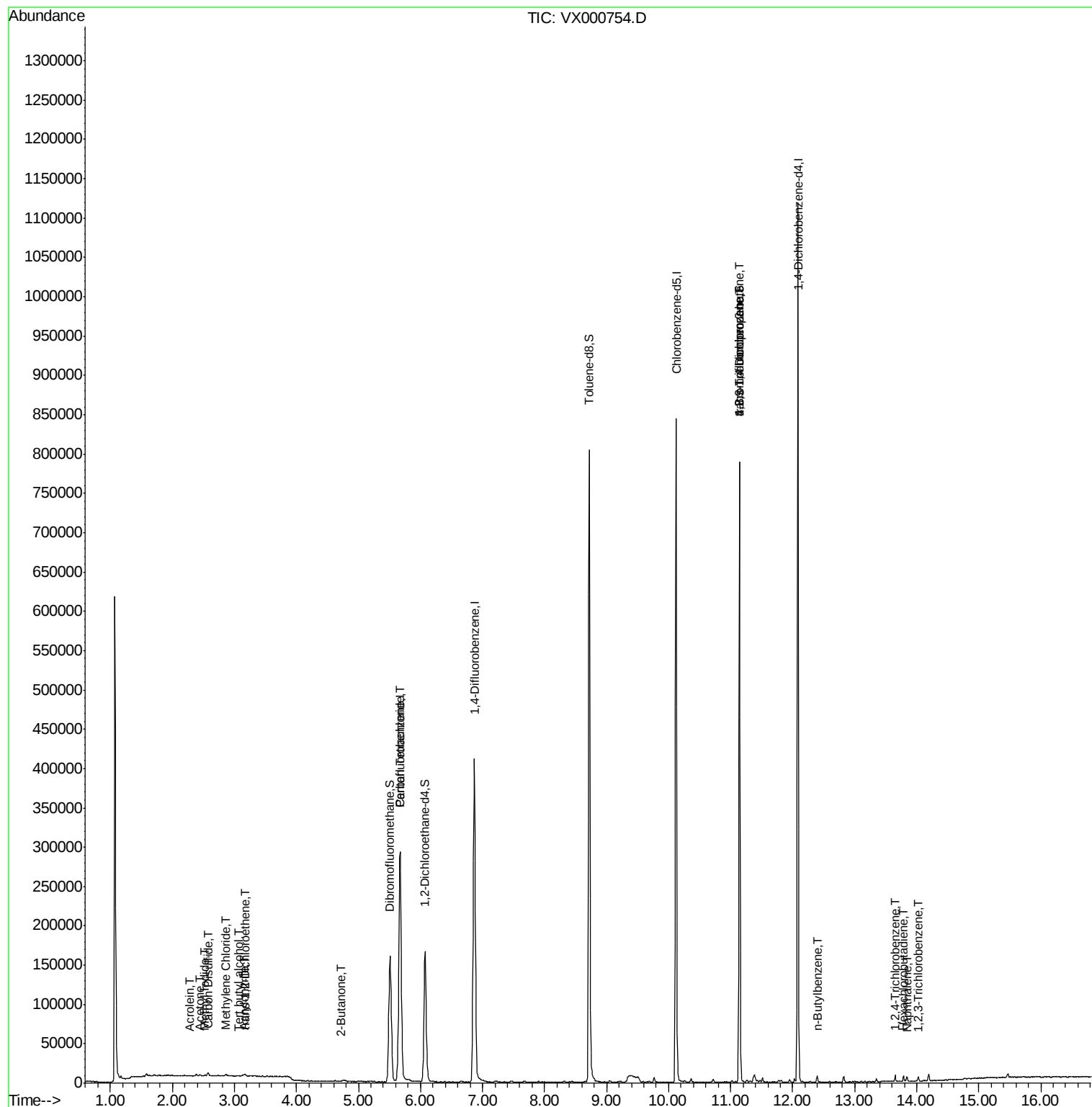
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	312	Below Cal	#	76
10) Methyl Iodide	2.51	142	597	8.44	ug/l #	91
11) Tert butyl alcohol	3.07	59	155	0.22	ug/l #	1
13) Acrolein	2.29	56	236	0.68	ug/l #	14
15) Acrylonitrile	3.15	53	1118	0.73	ug/l #	75
16) Acetone	2.45	43	895	0.64	ug/l #	77
17) Carbon Disulfide	2.58	76	5145	0.58	ug/l	99
20) Methylene Chloride	2.87	84	1164	0.36	ug/l	94
21) trans-1,2-Dichloroethene	3.17	96	669	0.21	ug/l #	84
25) 2-Butanone	4.71	43	471	0.21	ug/l #	89
38) Carbon Tetrachloride	5.67	117	26992	5.04	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	98033	24.08	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	98033	66.24	ug/l #	11
89) n-Butylbenzene	12.40	91	2760	0.22	ug/l	93
93) 1,2,4-Trichlorobenzene	13.65	180	2083	0.31	ug/l	96
94) Hexachlorobutadiene	13.79	225	1148	0.35	ug/l	98
95) Naphthalene	13.84	128	3893	0.23	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	1577	0.24	ug/l	98

(#) = 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# 834

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampleId :

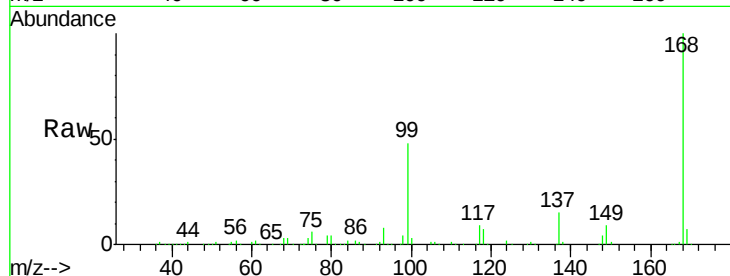
I.BLK

Tgt Ion:168 Resp: 319579

Ion Ratio Lower Upper

168 100

99 47.6 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

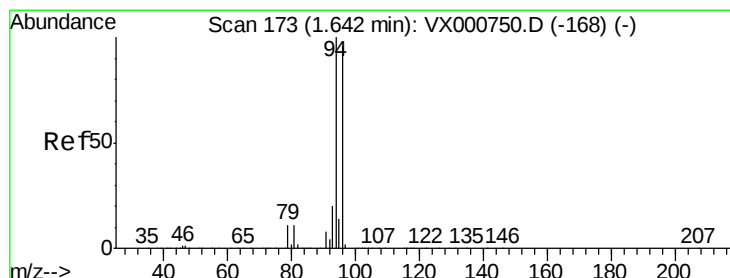
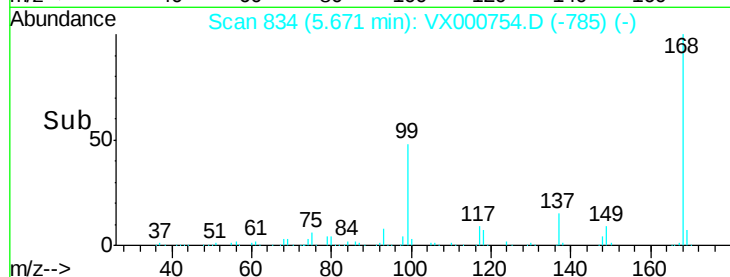
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000754.D

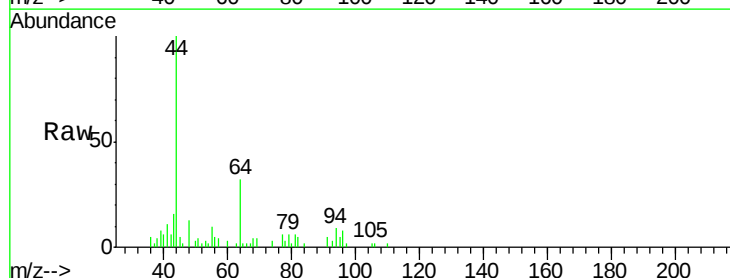
Acq: 10 Apr 2018 17:22

Tgt Ion: 94 Resp: 312

Ion Ratio Lower Upper

94 100

96 72.4 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

250

200

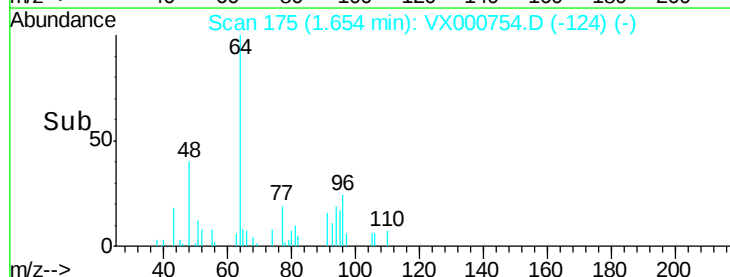
150

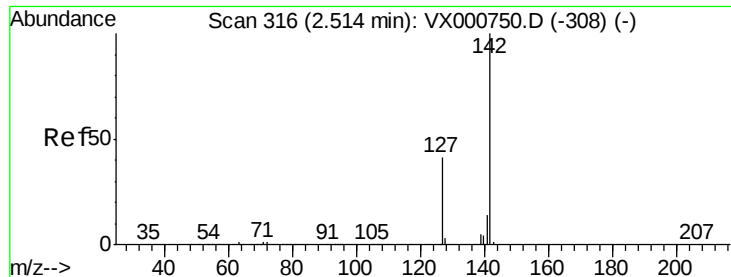
100

50

0

Time-->





#10

Methyl Iodide

Concen: 8.44 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampled :

I.BLK

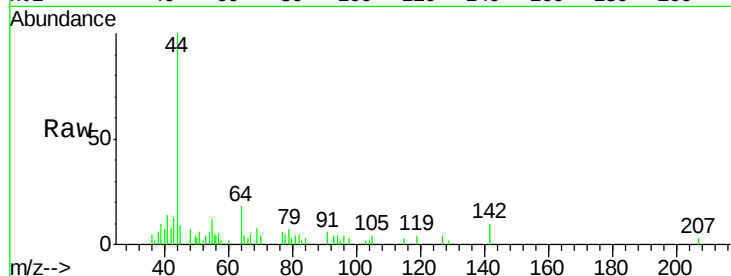
Tgt Ion:142 Resp: 597

Ion Ratio Lower Upper

142 100

127 37.5 32.6 49.0

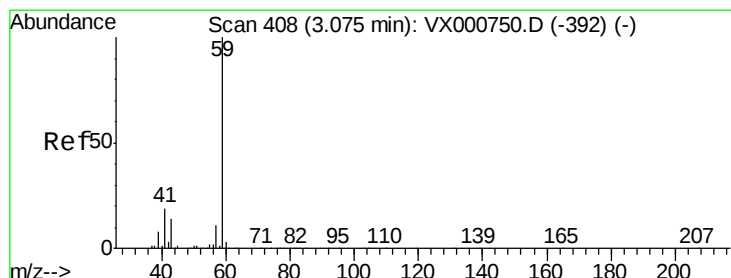
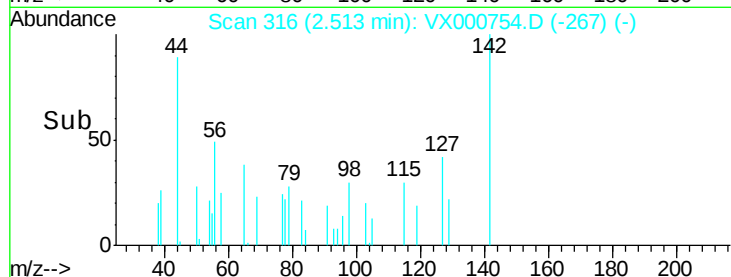
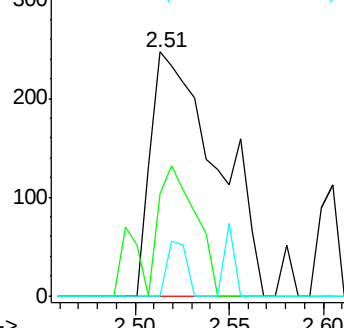
141 6.5 11.5 17.3#



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



#11

Tert butyl alcohol

Concen: 0.22 ug/l

RT: 3.07 min Scan# 407

Delta R.T. -0.01 min

Lab File: VX000754.D

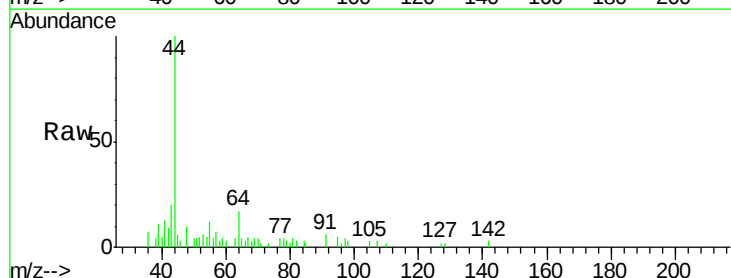
Acq: 10 Apr 2018 17:22

Tgt Ion: 59 Resp: 155

Ion Ratio Lower Upper

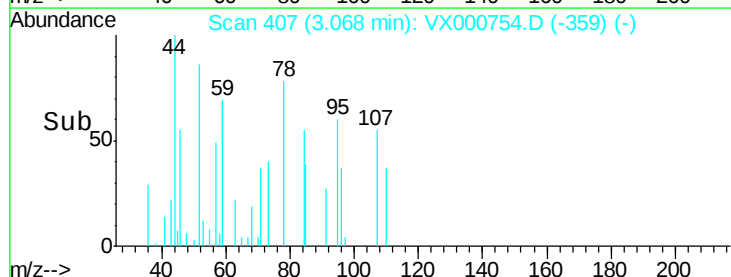
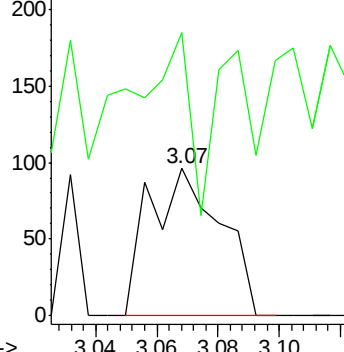
59 100

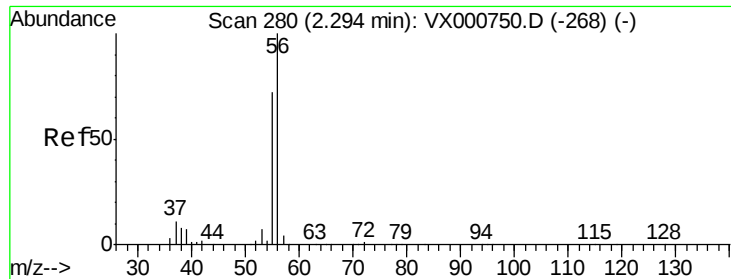
57 87.1 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.68 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampled :

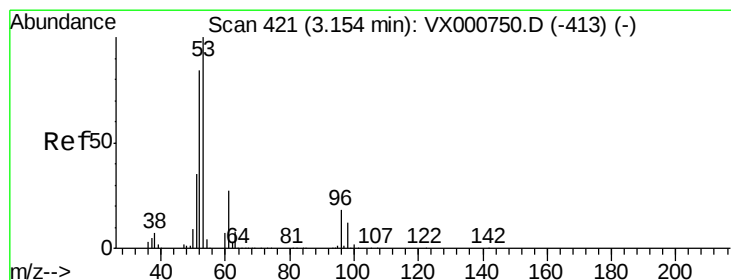
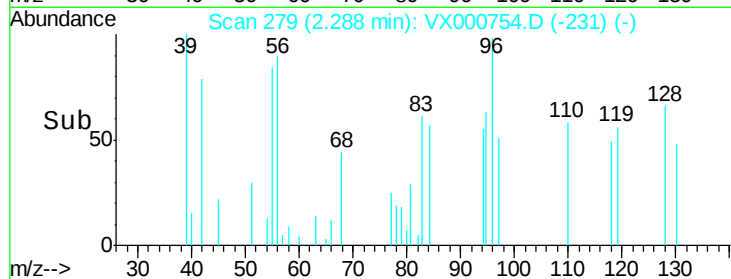
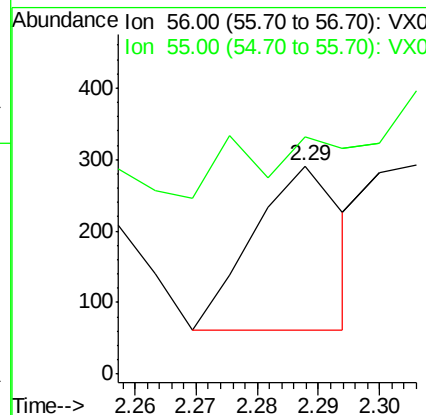
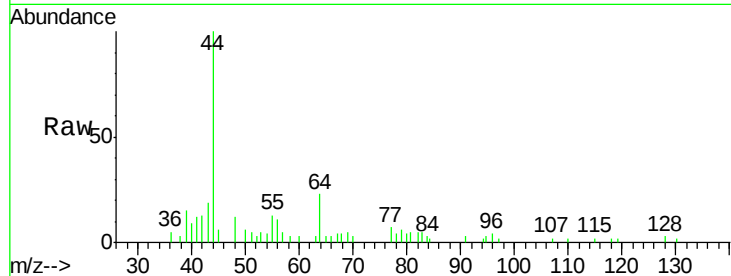
I.BLK

Tgt Ion: 56 Resp: 236

Ion Ratio Lower Upper

56 100

55 146.2 58.7 88.1#



#15

Acrylonitrile

Concen: 0.73 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

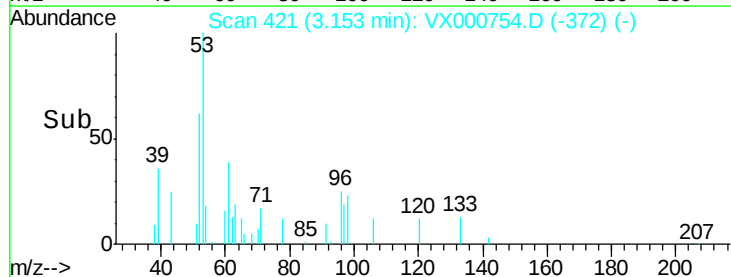
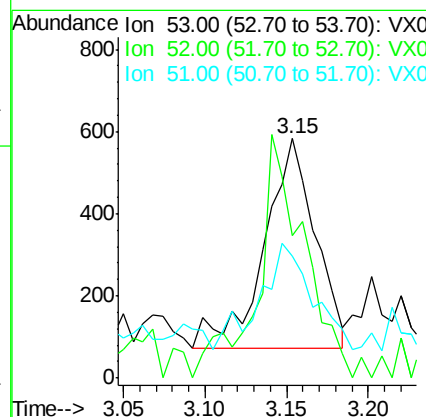
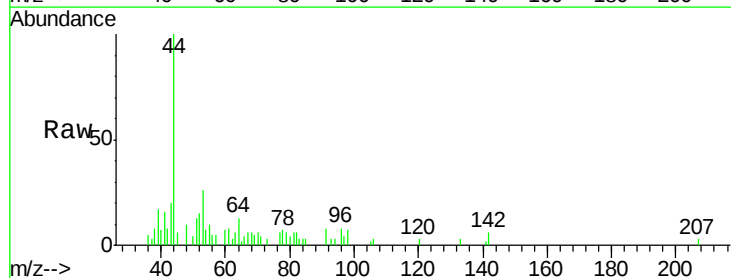
Tgt Ion: 53 Resp: 1118

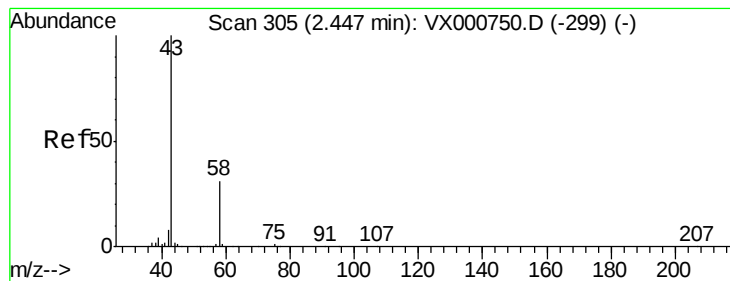
Ion Ratio Lower Upper

53 100

52 105.4 66.5 99.7#

51 51.5 28.8 43.2#





#16

Acetone

Concen: 0.64 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampleId :

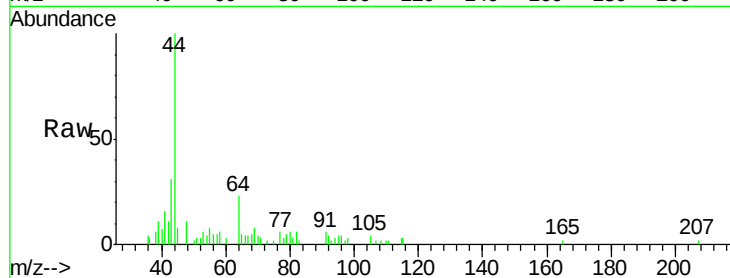
I.BLK

Tgt Ion: 43 Resp: 895

Ion Ratio Lower Upper

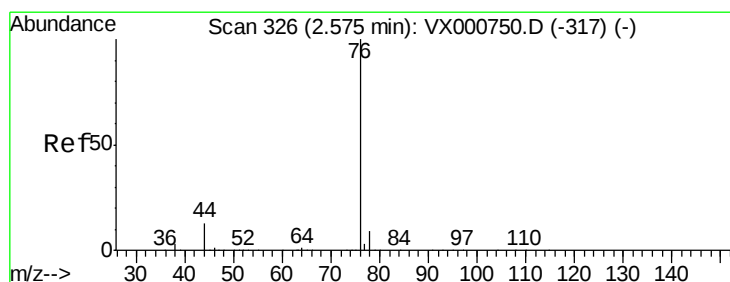
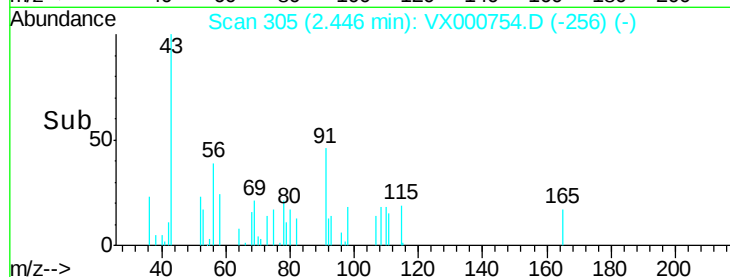
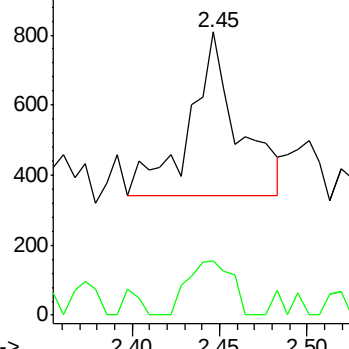
43 100

58 18.3 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.58 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX000754.D

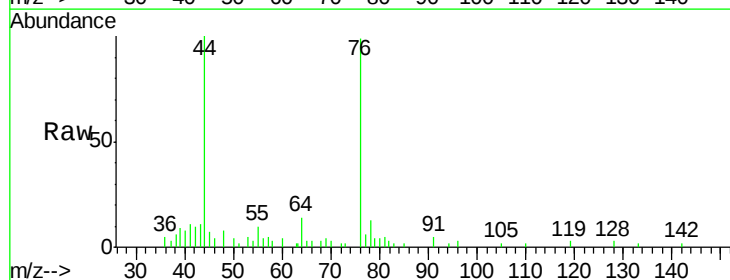
Acq: 10 Apr 2018 17:22

Tgt Ion: 76 Resp: 5145

Ion Ratio Lower Upper

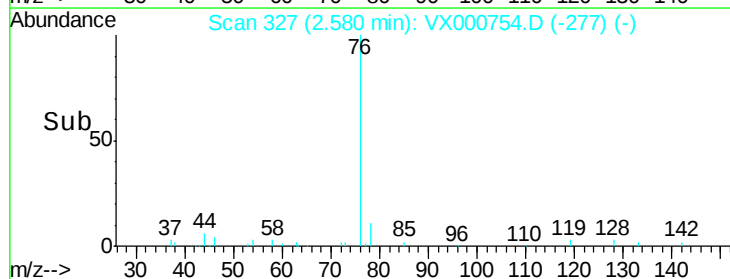
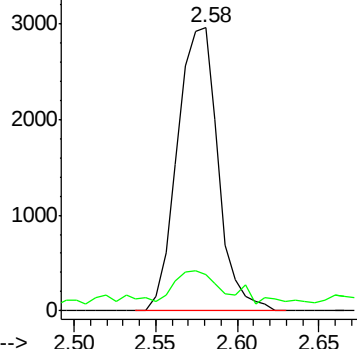
76 100

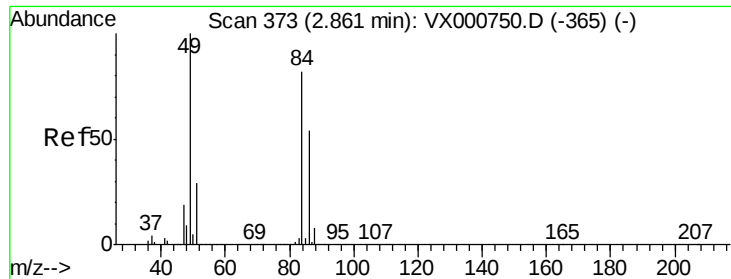
78 9.6 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

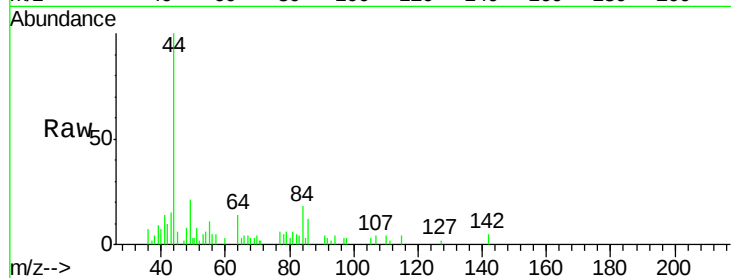




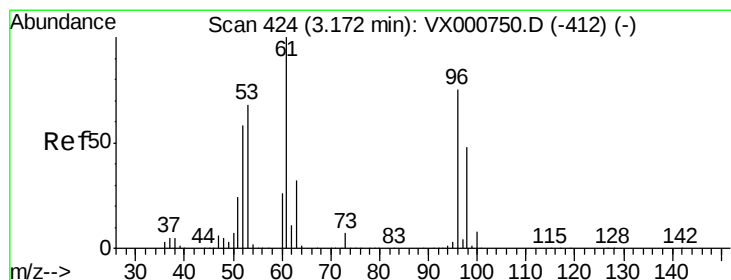
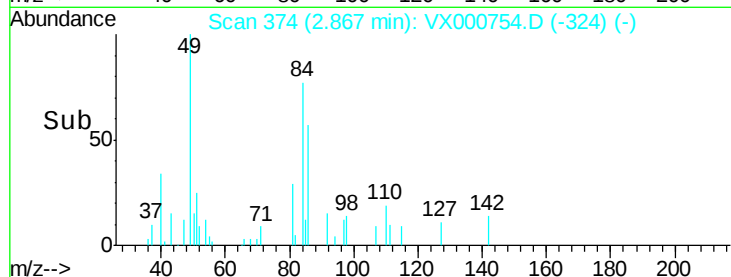
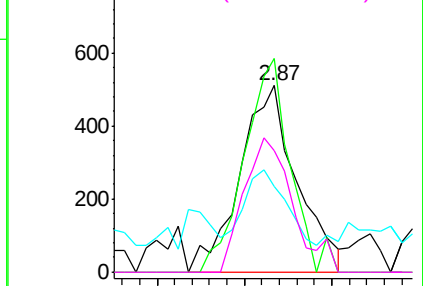
#20
Methylene Chloride
Concen: 0.36 ug/l
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX000754.D
Acq: 10 Apr 2018 17:22

Instrument :
MSVOA_X
ClientSampled :
I.BLK

Tgt Ion: 84 Resp: 1164
Ion Ratio Lower Upper
84 100
49 114.7 98.1 147.1
51 29.2 28.9 43.3
86 65.1 52.7 79.1

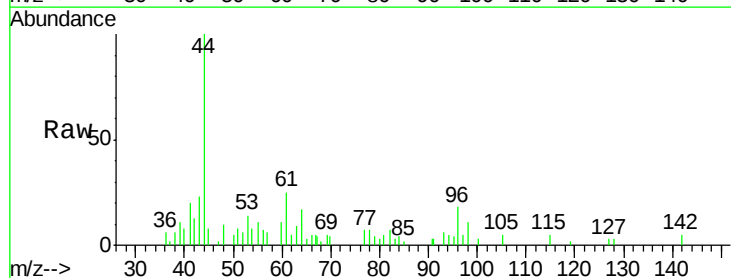


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

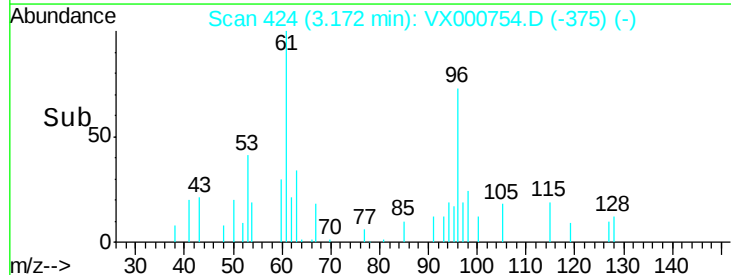
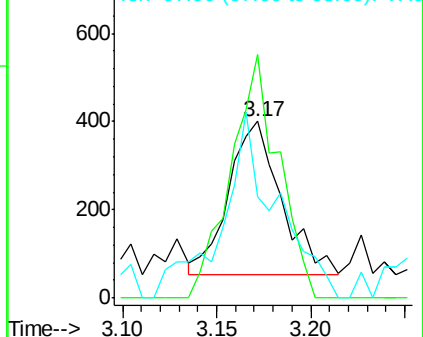


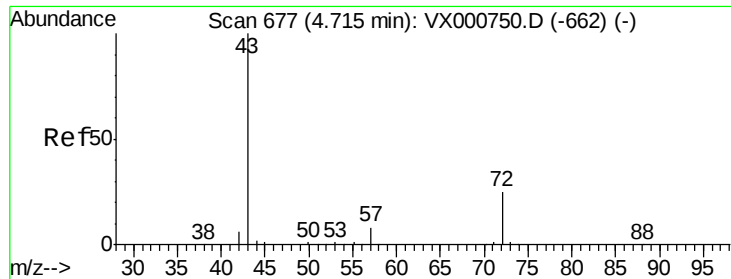
#21
trans-1,2-Dichloroethene
Concen: 0.21 ug/l
RT: 3.17 min Scan# 424
Delta R.T. -0.00 min
Lab File: VX000754.D
Acq: 10 Apr 2018 17:22

Tgt Ion: 96 Resp: 669
Ion Ratio Lower Upper
96 100
61 159.5 106.2 159.2#
98 66.5 51.2 76.8



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





#25

2-Butanone

Concen: 0.21 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampled :

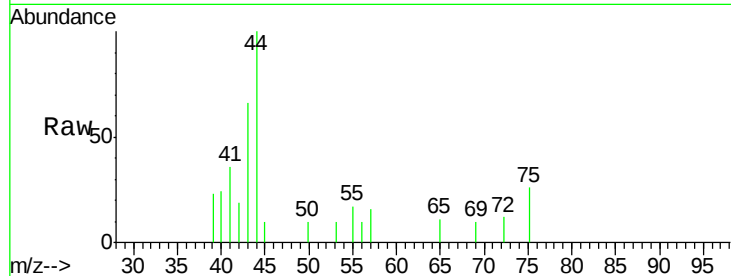
I.BLK

Tgt Ion: 43 Resp: 471

Ion Ratio Lower Upper

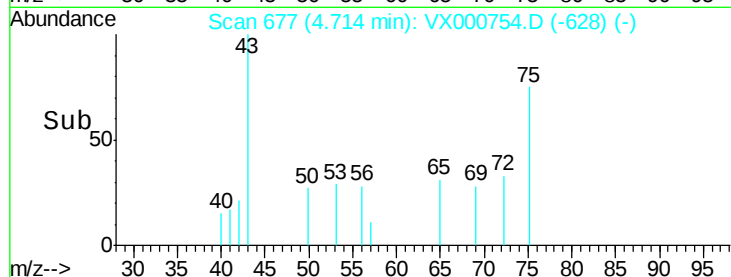
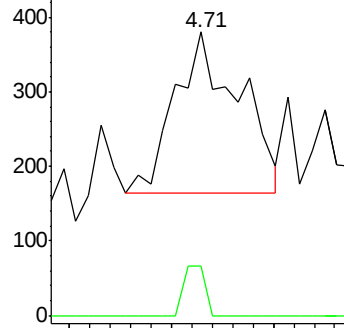
43 100

72 31.2 20.3 30.5#

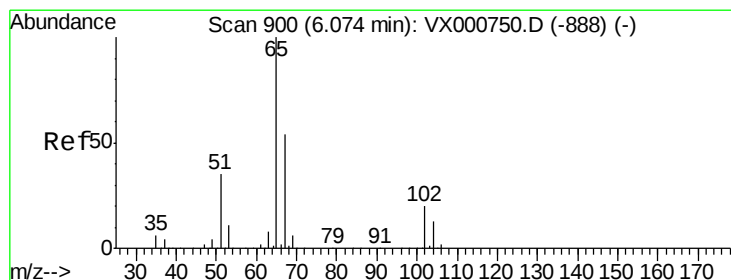


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 39.27 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX000754.D

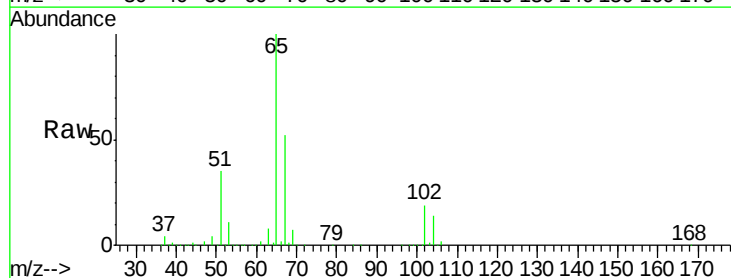
Acq: 10 Apr 2018 17:22

Tgt Ion: 65 Resp: 158256

Ion Ratio Lower Upper

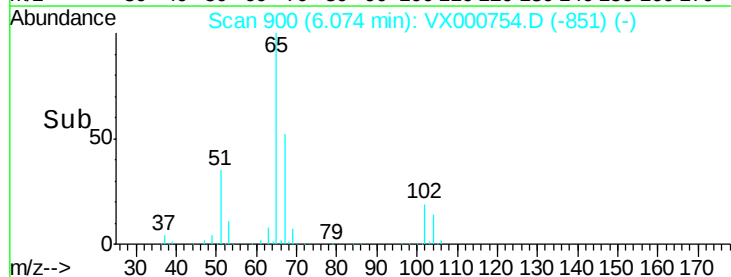
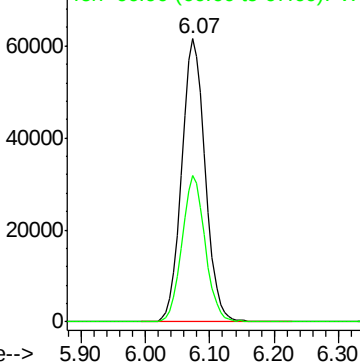
65 100

67 51.1 0.0 103.8

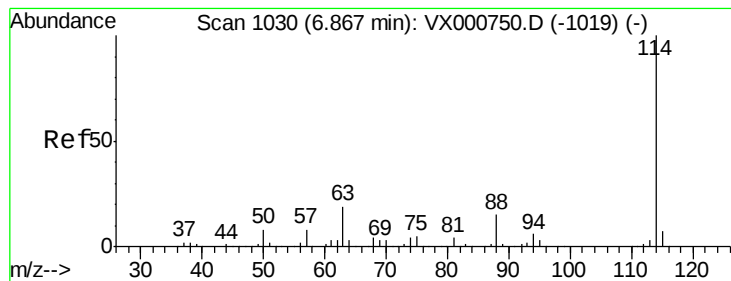


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampleId :

I.BLK

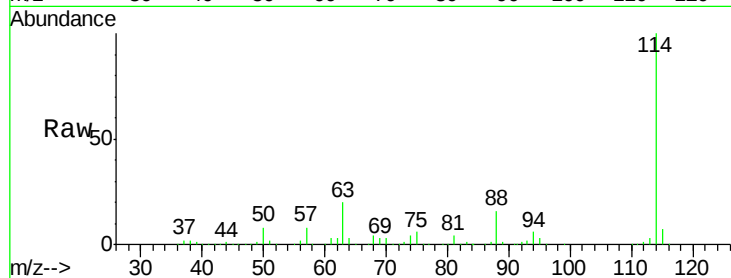
Tgt Ion:114 Resp: 434764

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.4

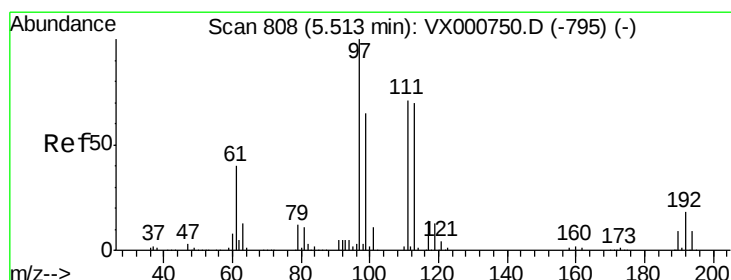
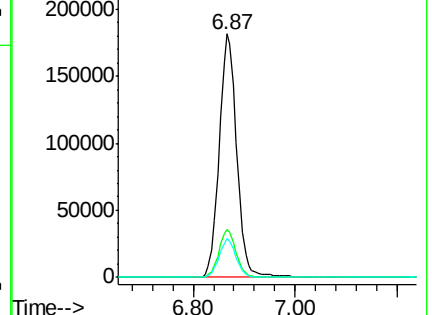
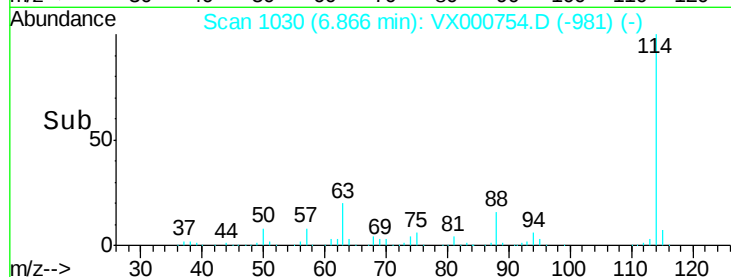
88 15.7 0.0 31.0



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: 39.85 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

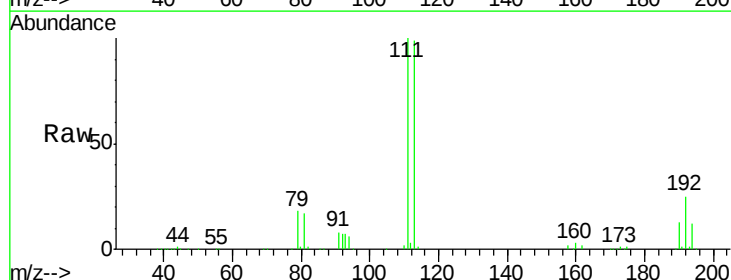
Tgt Ion:113 Resp: 133474

Ion Ratio Lower Upper

113 100

111 101.3 81.5 122.3

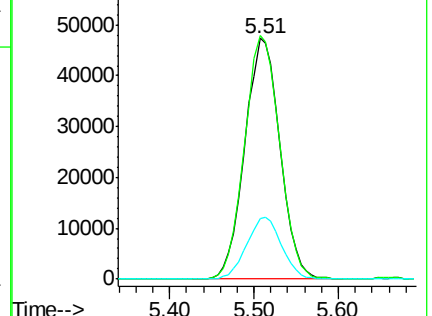
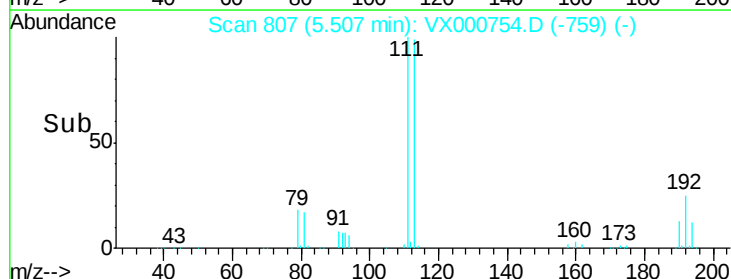
192 25.5 20.4 30.6

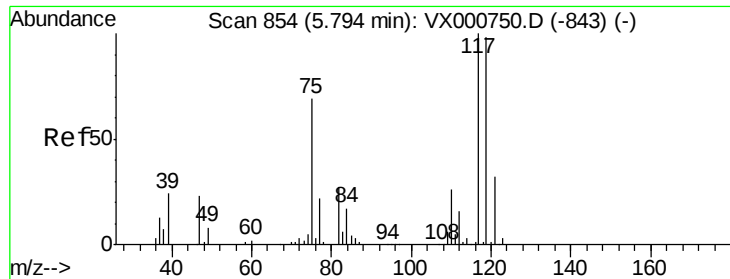


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

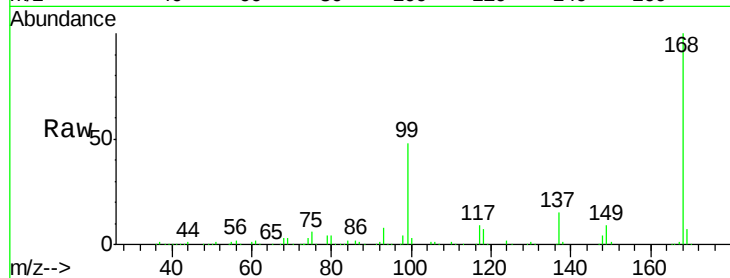




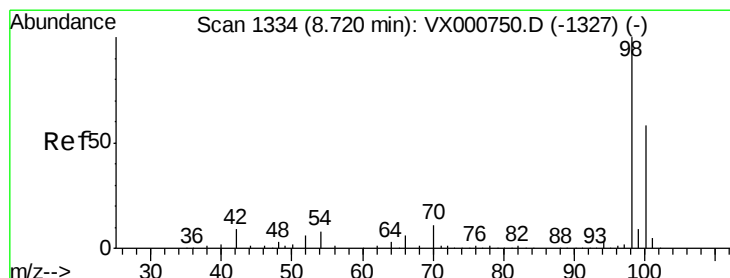
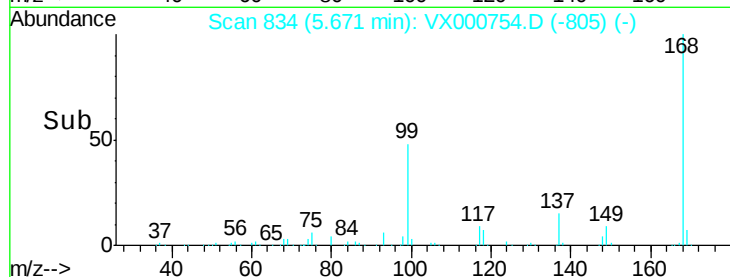
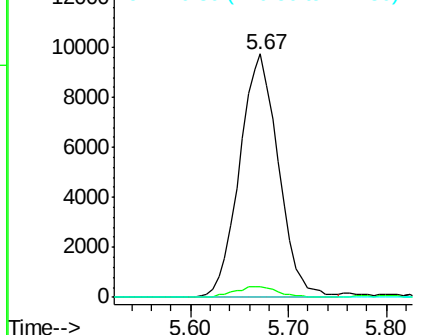
#38
Carbon Tetrachloride
Concen: 5.04 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX000754.D
Acq: 10 Apr 2018 17:22

Instrument :
MSVOA_X
ClientSampleId :
I.BLK

Tgt Ion:117 Resp: 26992
Ion Ratio Lower Upper
117 100
119 4.4 78.4 117.6#
121 0.0 25.4 38.0#

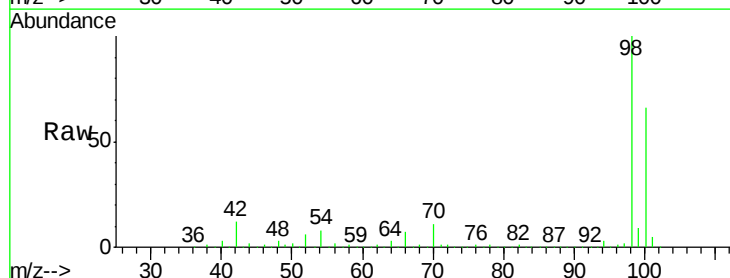


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

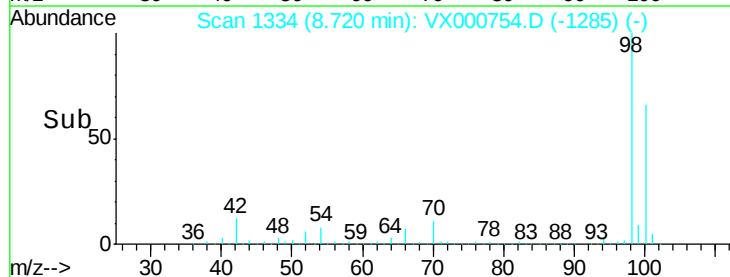
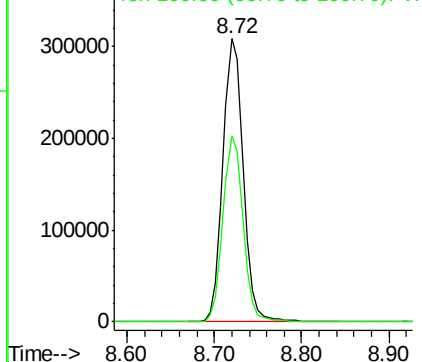


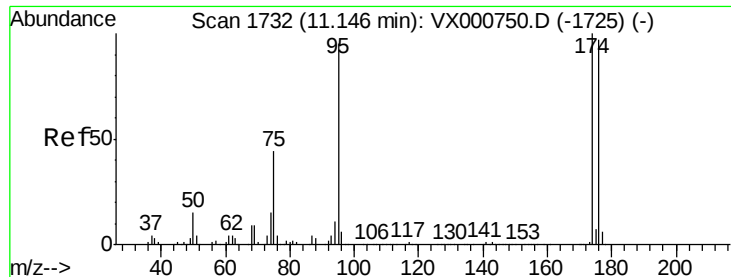
#50
Toluene-d8
Concen: 40.01 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX000754.D
Acq: 10 Apr 2018 17:22

Tgt Ion: 98 Resp: 498958
Ion Ratio Lower Upper
98 100
100 64.9 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 39.02 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.01 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampled :

I.BLK

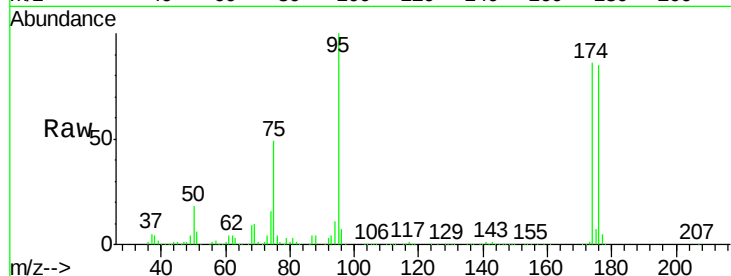
Tgt Ion: 95 Resp: 201346

Ion Ratio Lower Upper

95 100

174 97.0 0.0 198.4

176 94.9 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX000750.D (-1725) (-)

Ion 173.80 (173.50 to 174.50): VX000750.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX000750.D (-1725) (-)

11.14

150000

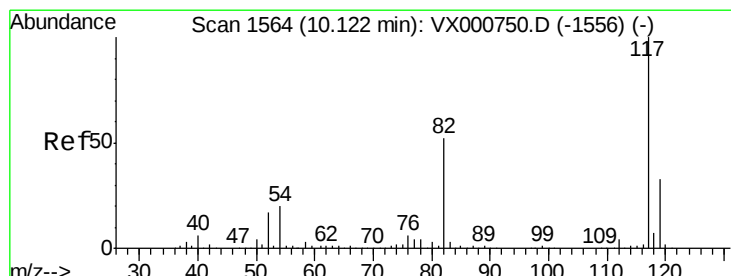
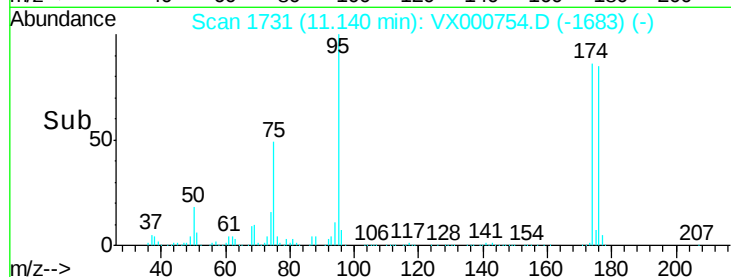
100000

50000

0

Time-->

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

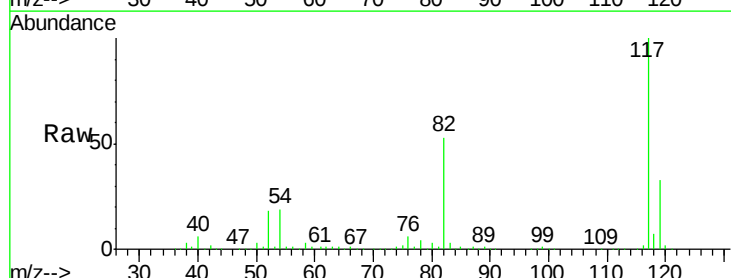
Tgt Ion: 117 Resp: 399135

Ion Ratio Lower Upper

117 100

82 52.6 41.9 62.9

119 32.9 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VX000750.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX000750.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX000750.D (-1556) (-)

10.12

400000

300000

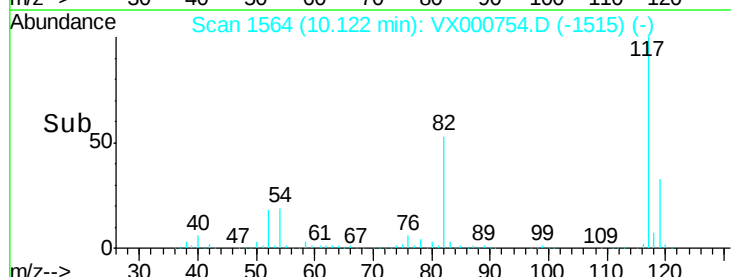
200000

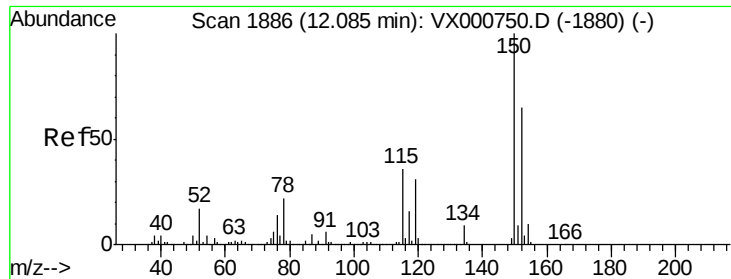
100000

0

Time-->

10.00 10.10 10.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampled :

I.BLK

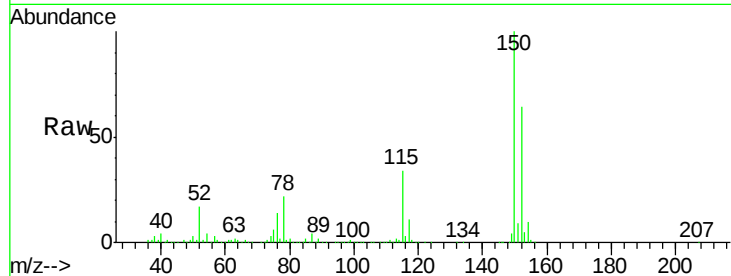
Tgt Ion:152 Resp: 236044

Ion Ratio Lower Upper

152 100

115 53.8 37.9 113.7

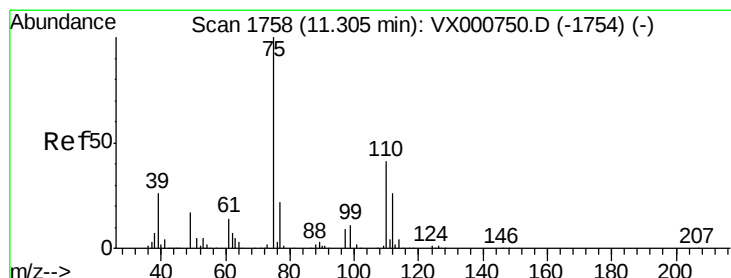
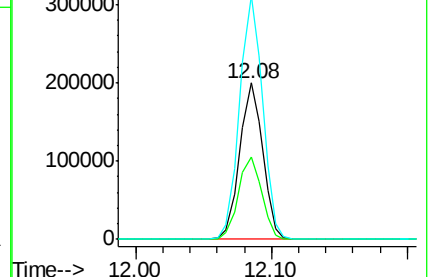
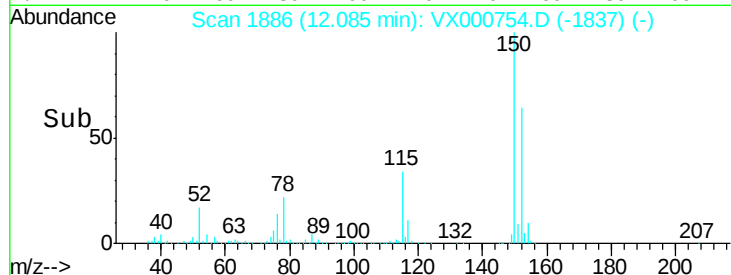
150 155.6 0.0 348.0



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: 24.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.17 min

Lab File: VX000754.D

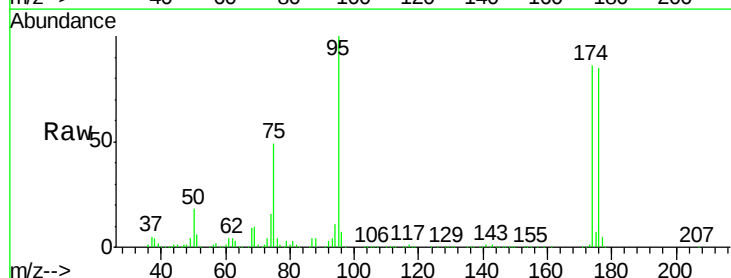
Acq: 10 Apr 2018 17:22

Tgt Ion: 75 Resp: 98033

Ion Ratio Lower Upper

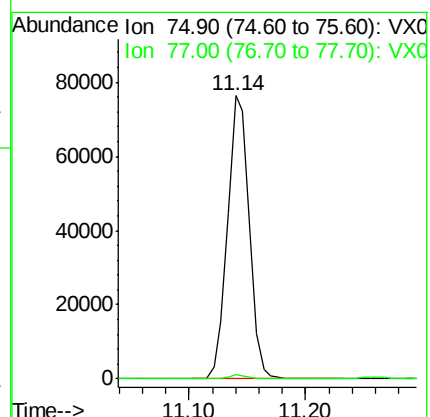
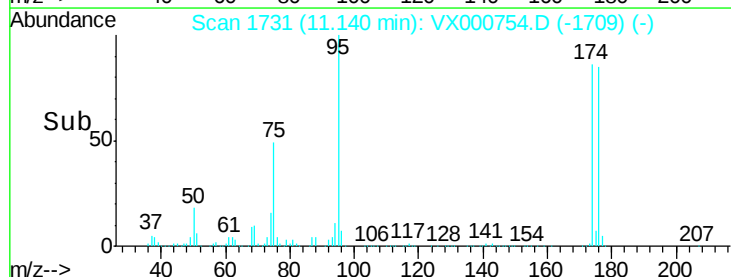
75 100

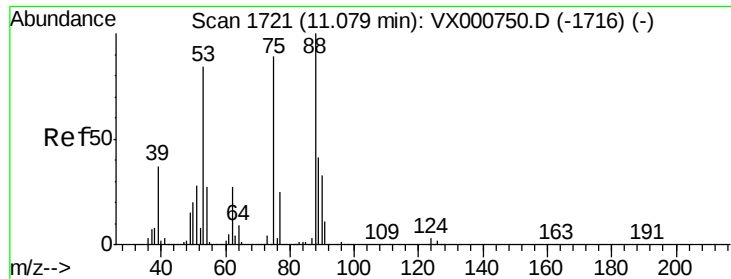
77 1.3 20.5 61.5#



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: 66.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampled :

I.BLK

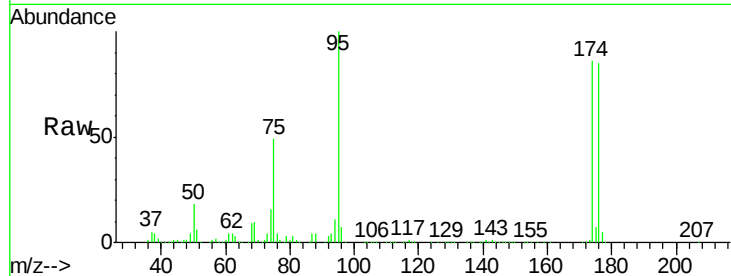
Tgt Ion: 75 Resp: 98033

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

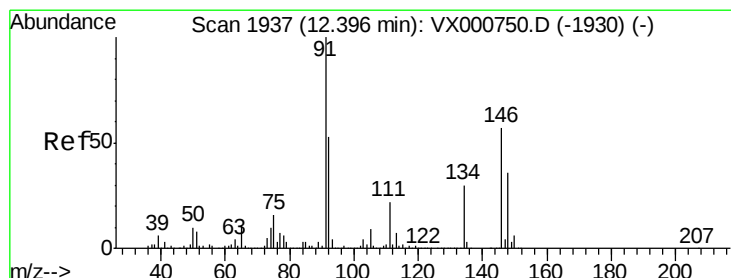
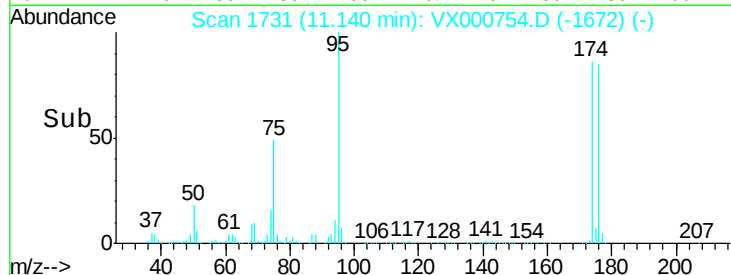
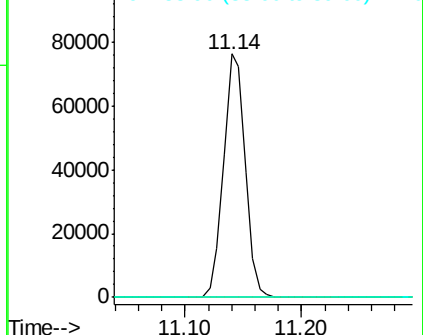
89 0.0 40.9 61.3#



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



#89

n-Butylbenzene

Concen: 0.22 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

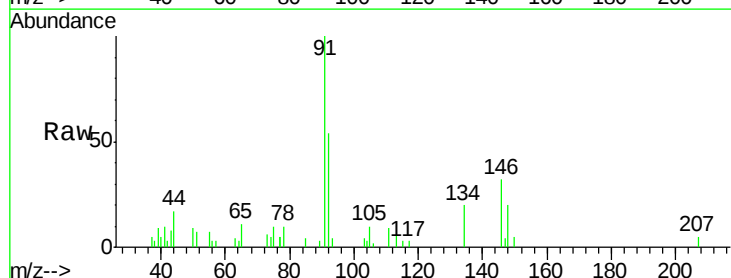
Tgt Ion: 91 Resp: 2760

Ion Ratio Lower Upper

91 100

92 49.5 26.5 79.5

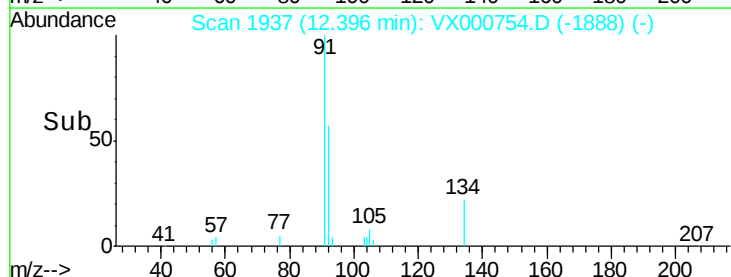
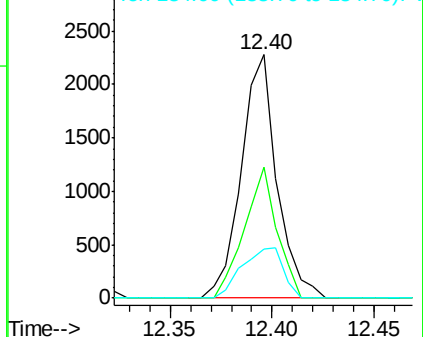
134 23.9 14.5 43.5

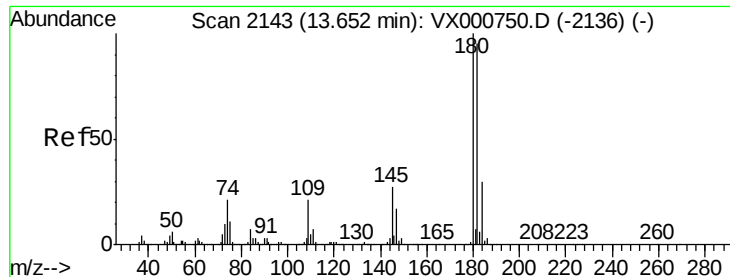


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V

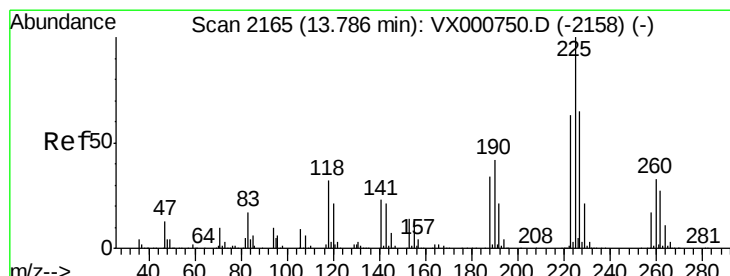
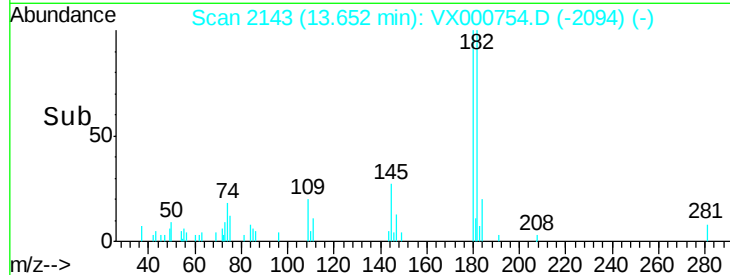
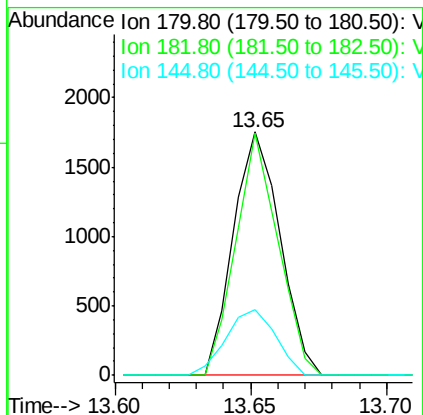
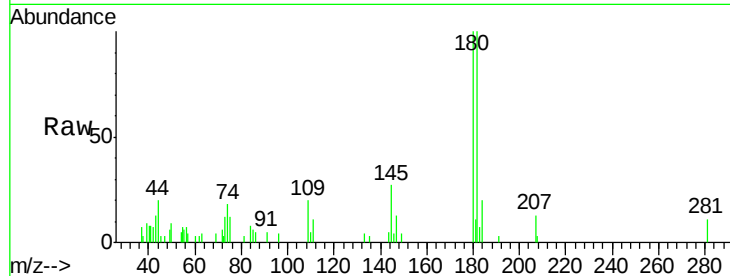




#93
 1,2,4-Trichlorobenzene
 Concen: 0.31 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VX000754.D
 Acq: 10 Apr 2018 17:22

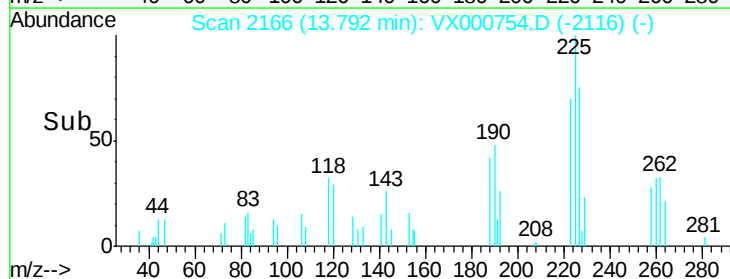
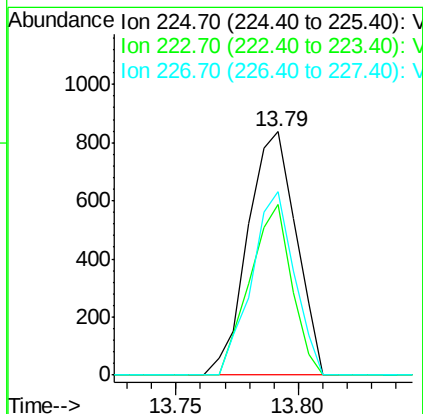
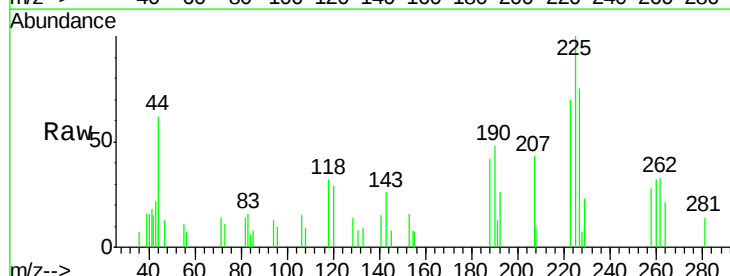
Instrument :
 MSVOA_X
 ClientSampleId :
 I.BLK

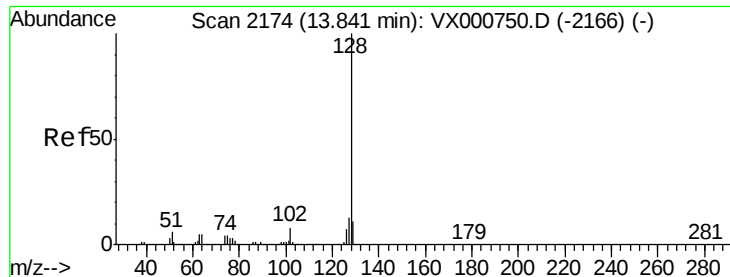
Tgt Ion:180 Resp: 2083
 Ion Ratio Lower Upper
 180 100
 182 90.2 47.5 142.5
 145 28.7 13.8 41.4



#94
 Hexachlorobutadiene
 Concen: 0.35 ug/l
 RT: 13.79 min Scan# 2166
 Delta R.T. 0.01 min
 Lab File: VX000754.D
 Acq: 10 Apr 2018 17:22

Tgt Ion:225 Resp: 1148
 Ion Ratio Lower Upper
 225 100
 223 60.7 31.2 93.6
 227 66.6 32.3 96.9





#95

Naphthalene

Concen: 0.23 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

Instrument :

MSVOA_X

ClientSampleId :

I.BLK

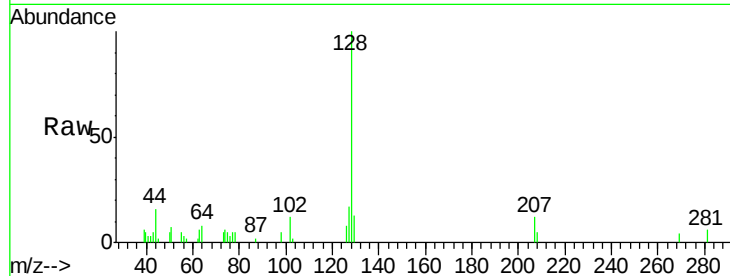
Tgt Ion:128 Resp: 3893

Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

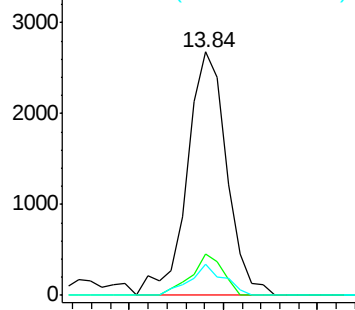
129 11.1 8.7 13.1



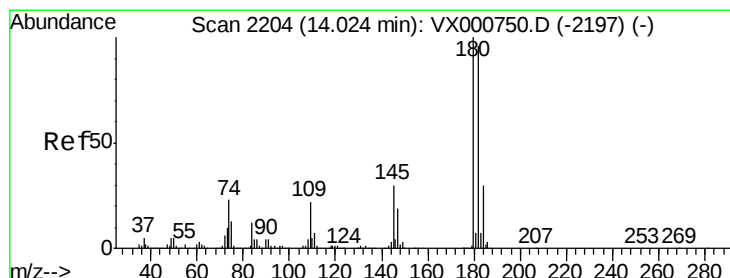
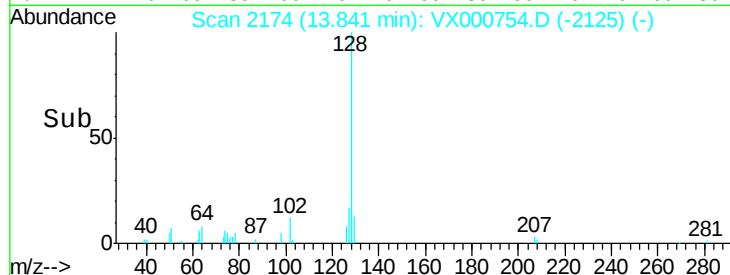
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.24 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VX000754.D

Acq: 10 Apr 2018 17:22

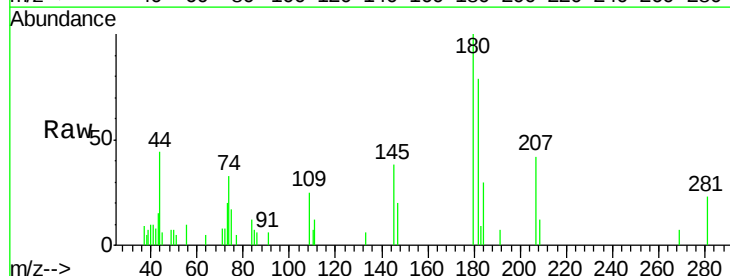
Tgt Ion:180 Resp: 1577

Ion Ratio Lower Upper

180 100

182 95.3 48.4 145.2

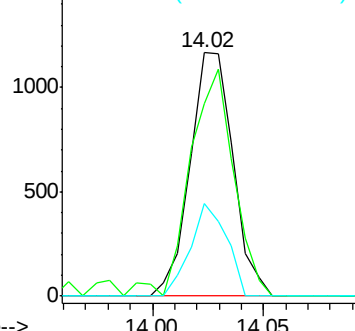
145 31.8 14.6 43.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time-->

