

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041618\
 Data File : VX000927.D
 Acq On : 16 Apr 2018 18:49
 Operator : JC/MD
 Sample : J2370-08 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 17 02:36:12 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	258476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	355818	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	336882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	230582	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.08	65	158452	48.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.24%	
35) Dibromofluoromethane	5.51	113	126098	46.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.00%	
50) Toluene-d8	8.72	98	499925	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	
62) 4-Bromofluorobenzene	11.15	95	199543	47.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.50%	

Target Compounds

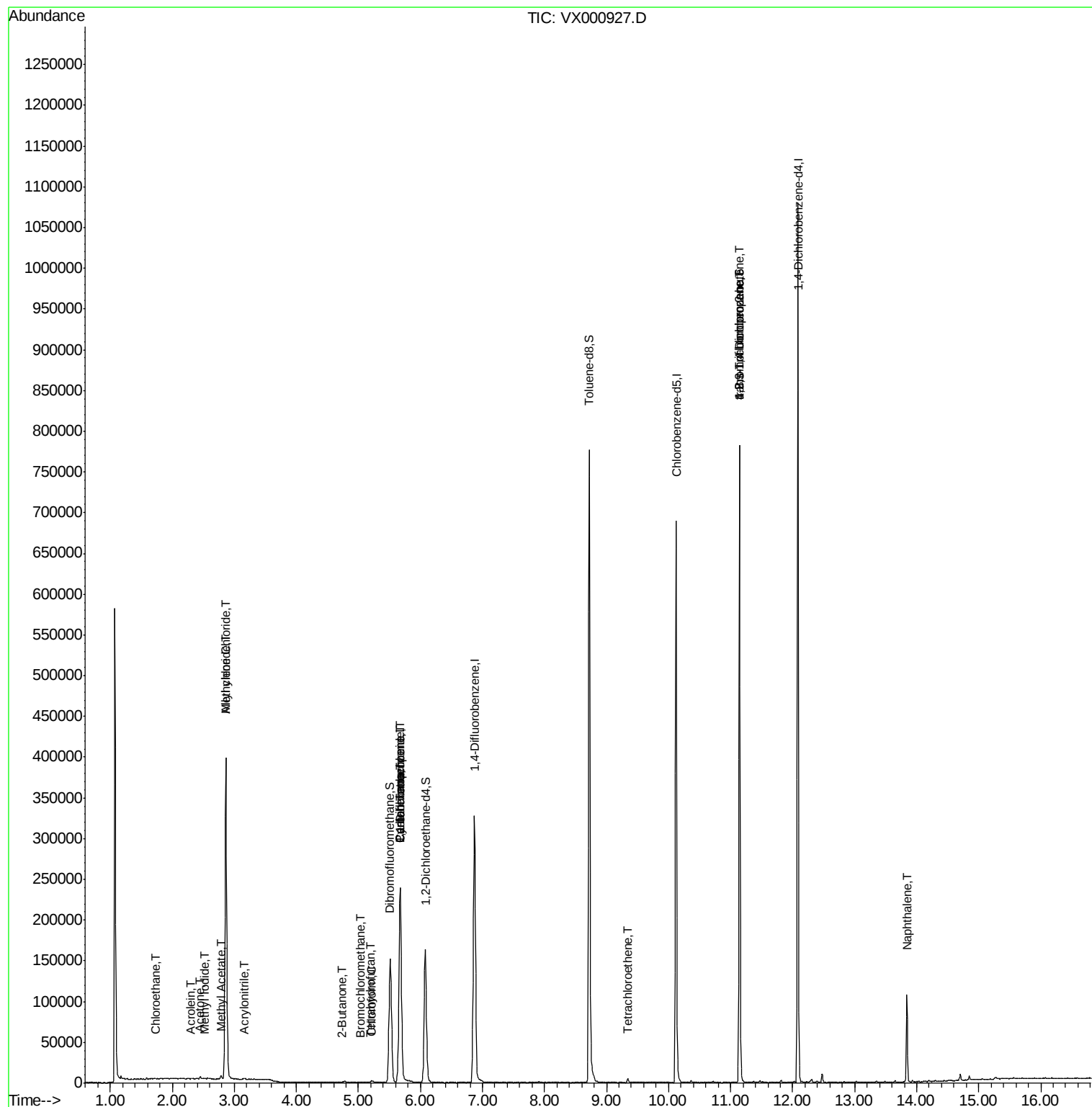
					Qvalue
5) Bromomethane	1.67	94	349	Below Cal	92
6) Chloroethane	1.73	64	1682	0.986 ug/l #	71
10) Methyl Iodide	2.51	142	96	8.271 ug/l #	42
13) Acrolein	2.29	56	181	0.644 ug/l #	13
14) Allyl chloride	2.86	41	7326	1.670 ug/l #	28
15) Acrylonitrile	3.16	53	407	0.330 ug/l #	55
16) Acetone	2.45	43	3204	2.851 ug/l #	77
18) Methyl Acetate	2.78	43	4328	1.488 ug/l	98
20) Methylene Chloride	2.86	84	186638	71.398 ug/l	99
25) 2-Butanone	4.72	43	643	0.346 ug/l #	50
28) Bromochloromethane	5.04	49	423	0.232 ug/l #	80
29) Tetrahydrofuran	5.18	42	471	0.400 ug/l #	84
30) Chloroform	5.21	83	2213	0.462 ug/l	87
31) Cyclohexane	5.67	56	4305	1.002 ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15646	3.993 ug/l #	49
38) Carbon Tetrachloride	5.68	117	22153	5.051 ug/l #	15
64) Tetrachloroethene	9.34	164	958	0.291 ug/l #	84
76) 1,2,3-Trichloropropane	11.15	75	98646	24.806 ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.15	75	98646	68.237 ug/l #	11
95) Naphthalene	13.84	128	64293	3.832 ug/l	99

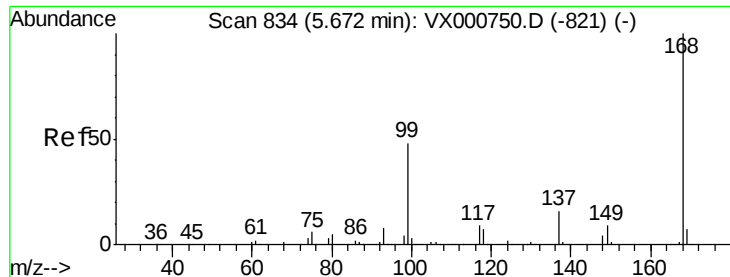
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :

MSVOA_X

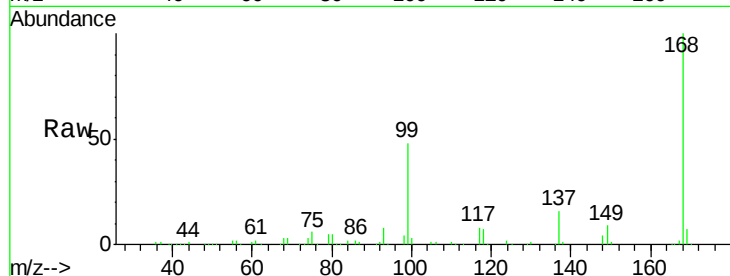
ClientSampleId :

Tot Ion:168 Resp: 258476

Ion Ratio Lower Upper

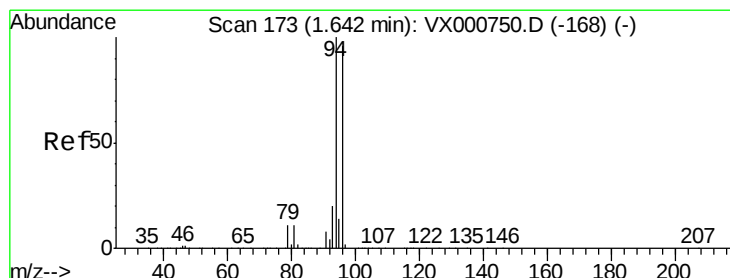
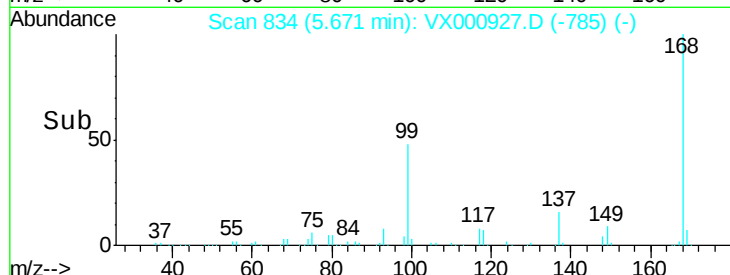
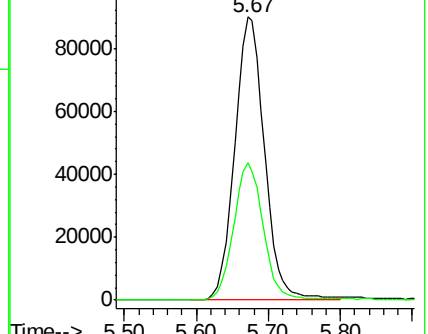
168 100

99 48.5 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX000927.D

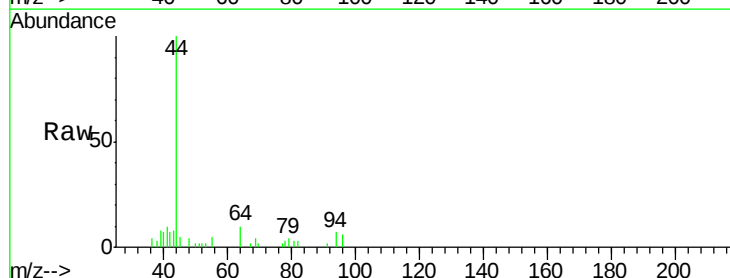
Acq: 16 Apr 2018 18:49

Tgt Ion: 94 Resp: 349

Ion Ratio Lower Upper

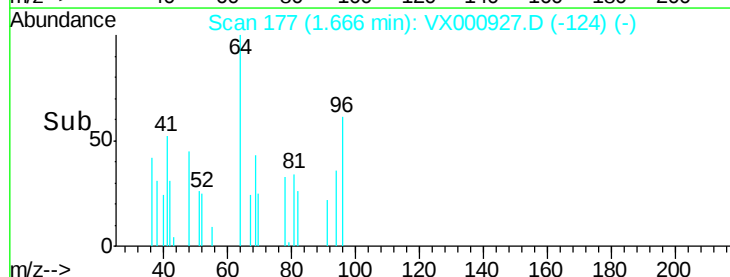
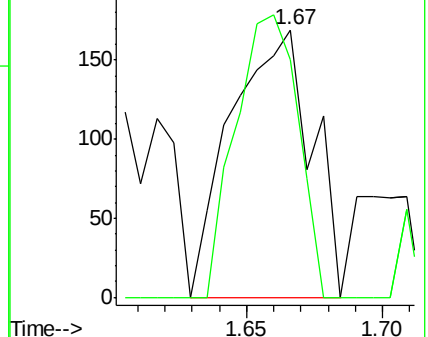
94 100

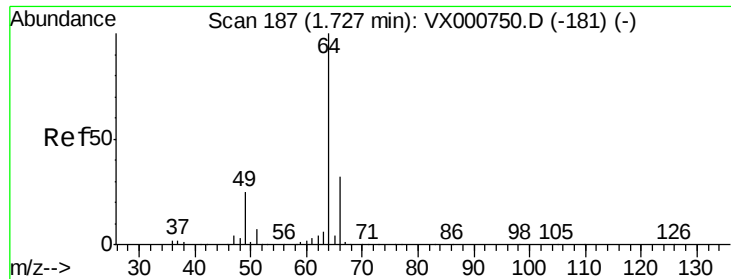
96 88.8 77.0 115.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.986 ug/l

RT: 1.73 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :

MSVOA_X

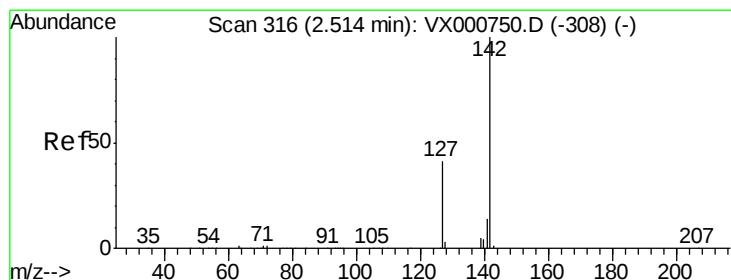
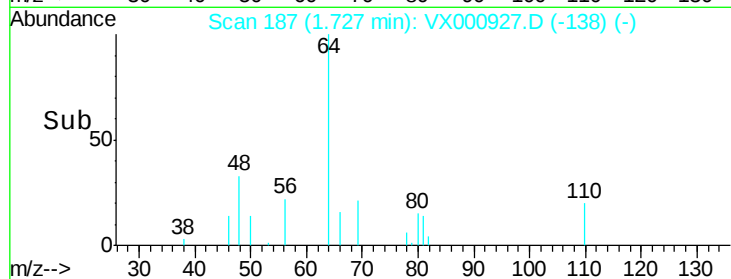
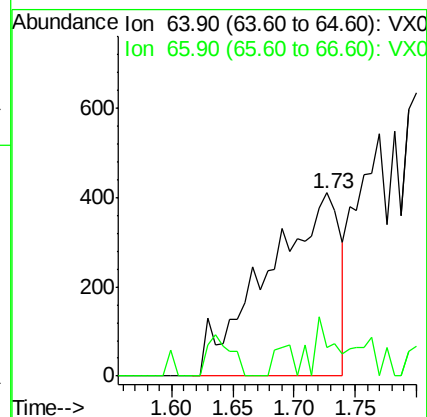
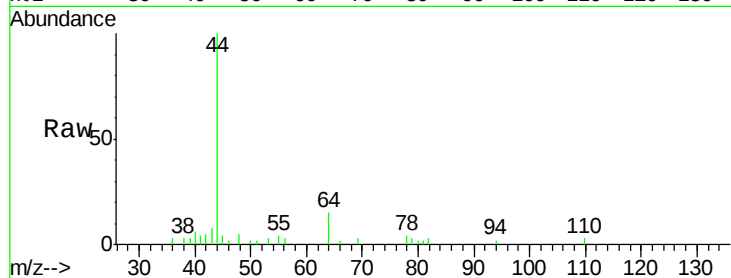
ClientSampleId :

Tot Ion: 64 Resp: 1682

Ion Ratio Lower Upper

64 100

66 15.6 25.3 37.9#



#10

Methyl Iodide

Concen: 8.271 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

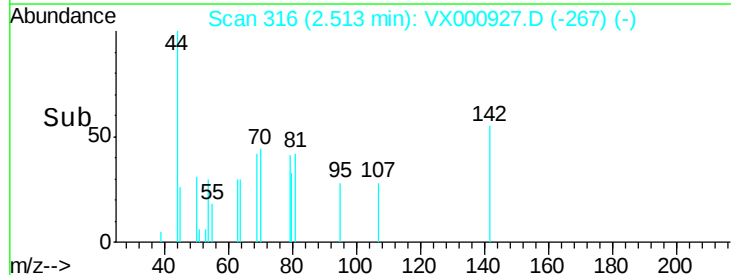
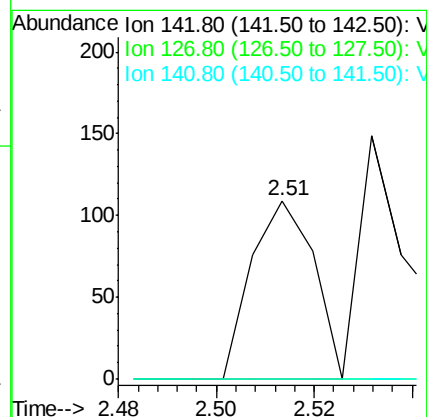
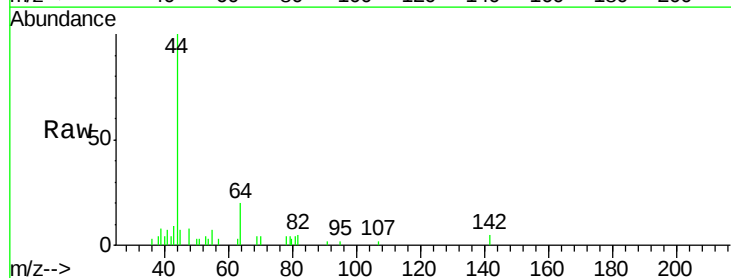
Tgt Ion: 142 Resp: 96

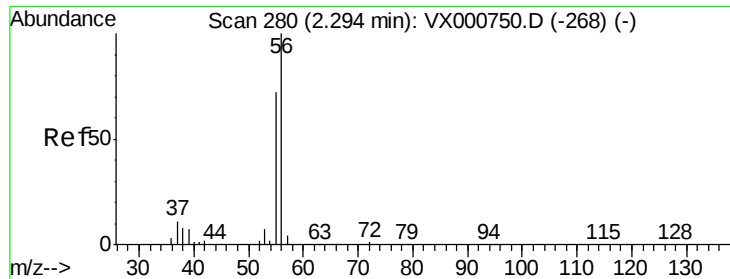
Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

141 0.0 11.5 17.3#





#13

Acrolein

Concen: 0.644 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :

MSVOA_X

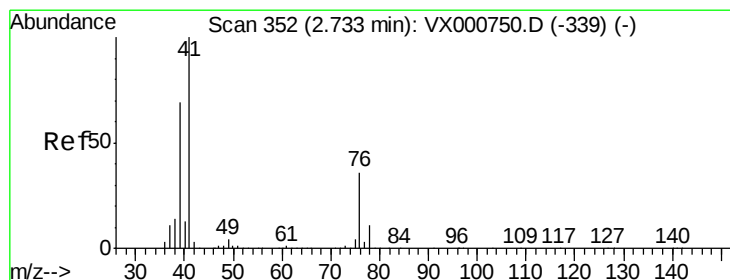
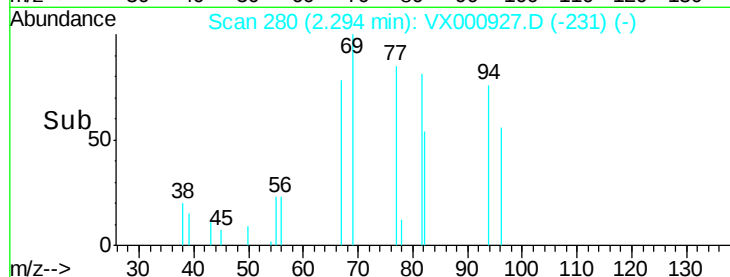
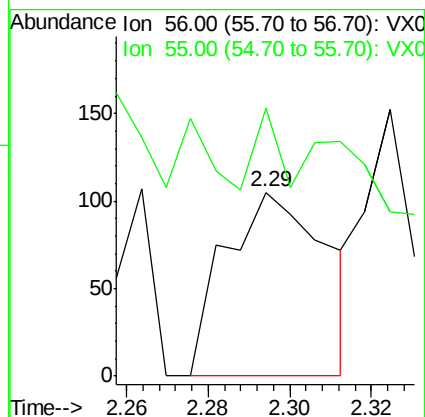
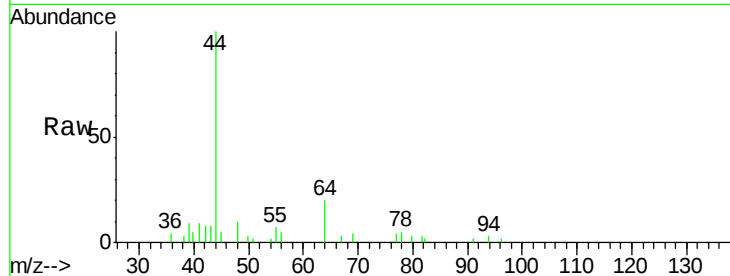
ClientSampleId :

Tot Ion: 56 Resp: 181

Ion Ratio Lower Upper

56 100

55 0.0 58.7 88.1#



#14

Allyl chloride

Concen: 1.670 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.13 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

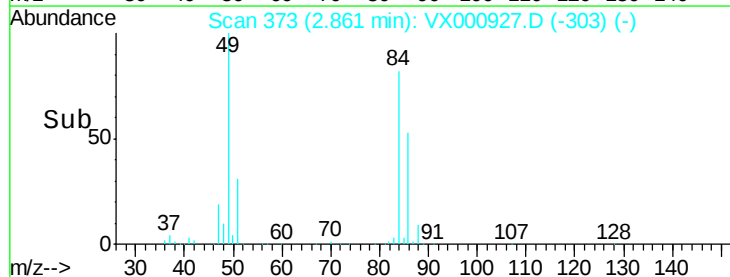
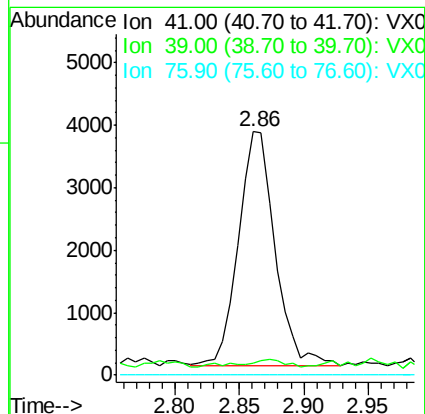
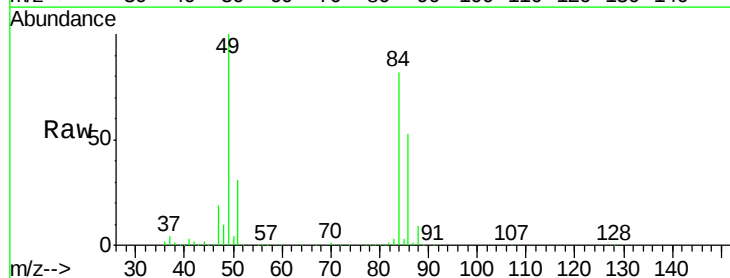
Tgt Ion: 41 Resp: 7326

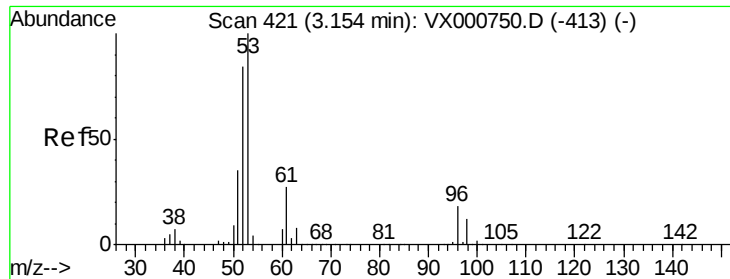
Ion Ratio Lower Upper

41 100

39 2.7 51.5 77.3#

76 0.0 26.5 39.7#





#15

Acrylonitrile

Concen: 0.330 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

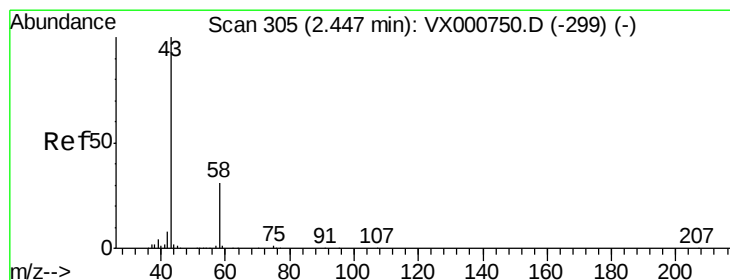
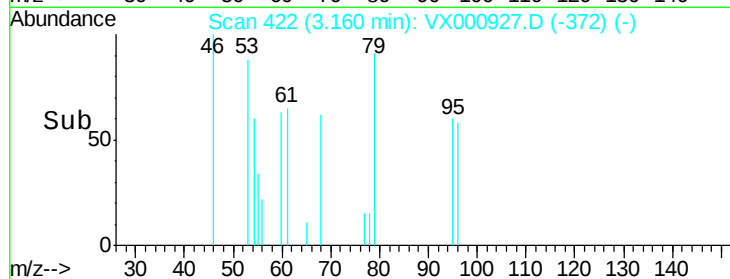
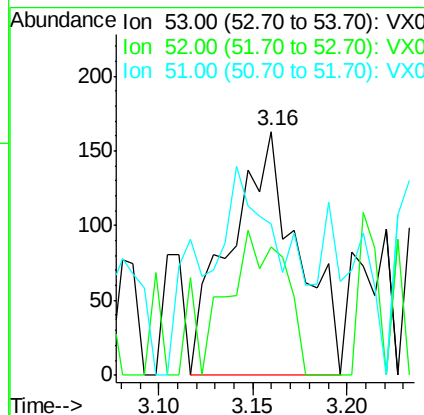
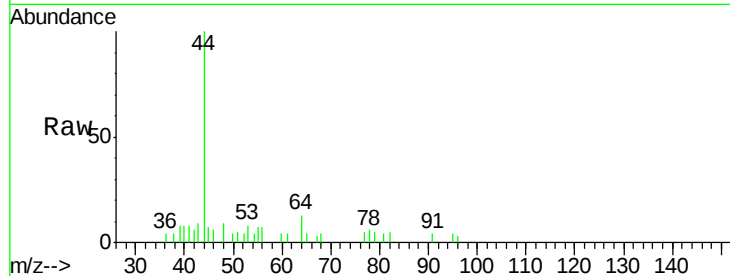
Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 53 Resp: 407

Ion	Ratio	Lower	Upper
53	100		
52	48.6	66.5	99.7#
51	0.0	28.8	43.2#



#16

Acetone

Concen: 2.851 ug/l

RT: 2.45 min Scan# 305

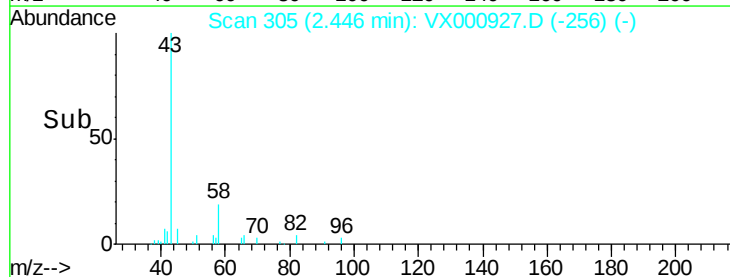
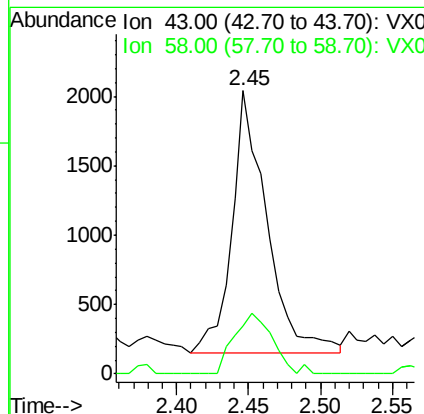
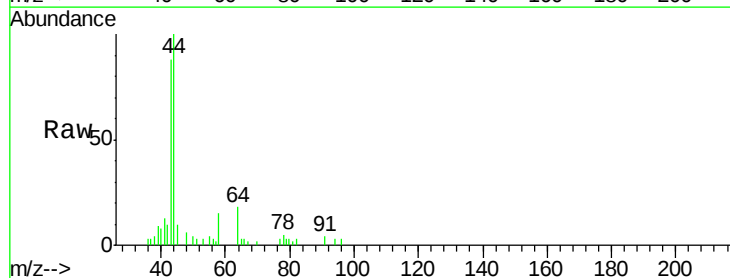
Delta R.T. -0.00 min

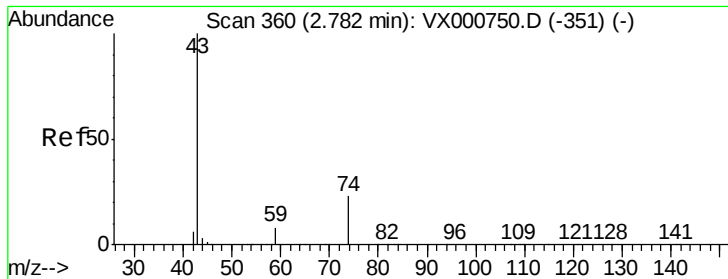
Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Tgt Ion: 43 Resp: 3204

Ion	Ratio	Lower	Upper
43	100		
58	18.1	24.6	37.0#

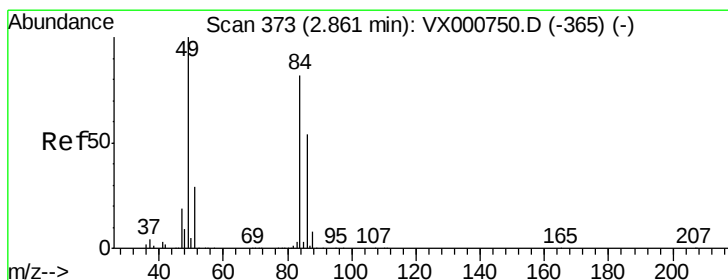
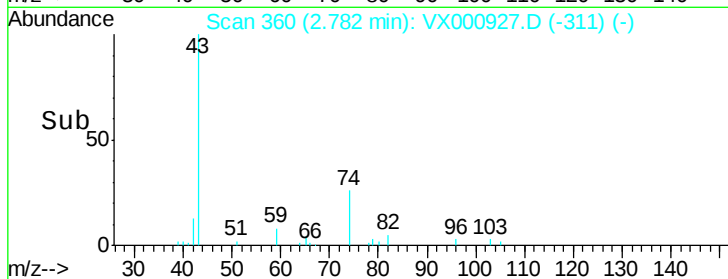
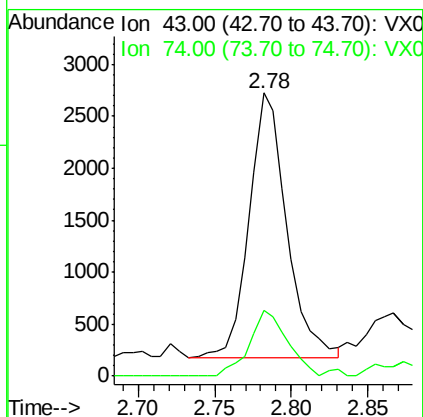
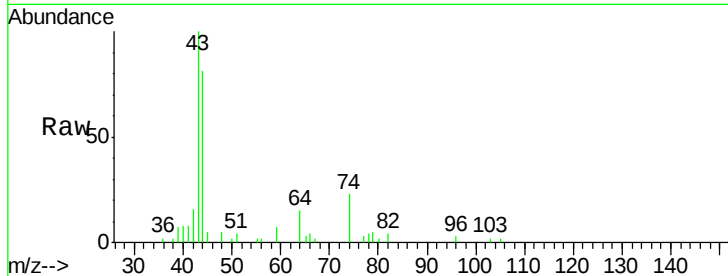




#18
Methvl Acetate
Concen: 1.488 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX000927.D
Acq: 16 Apr 2018 18:49

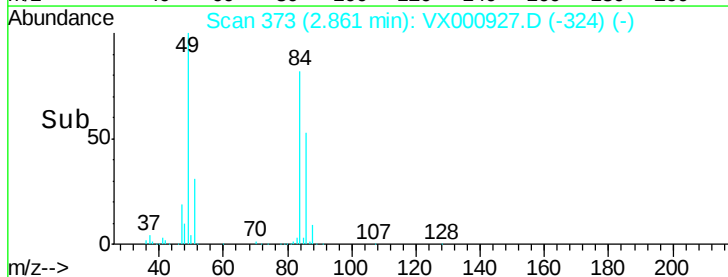
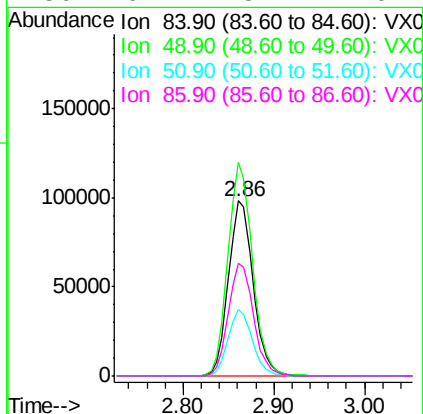
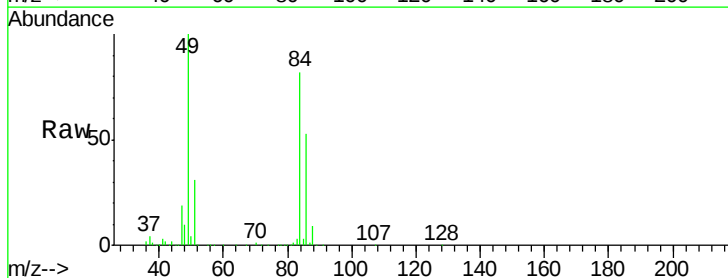
Instrument :
MSVOA_X
ClientSampled :

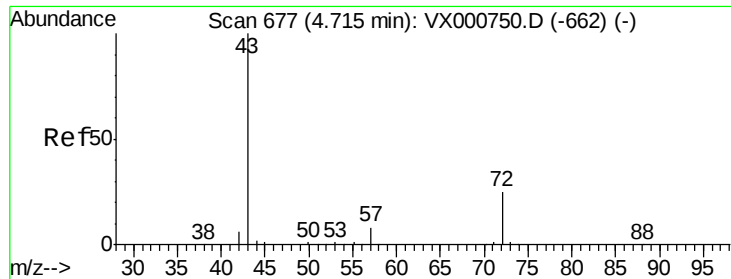
Tot Ion: 43 Resp: 4328
Ion Ratio Lower Upper
43 100
74 25.0 19.1 28.7



#20
Methylene Chloride
Concen: 71.398 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX000927.D
Acq: 16 Apr 2018 18:49

Tgt Ion: 84 Resp: 186638
Ion Ratio Lower Upper
84 100
49 122.0 98.1 147.1
51 37.7 28.9 43.3
86 64.1 52.7 79.1





#25

2-Butanone

Concen: 0.346 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :

MSVOA_X

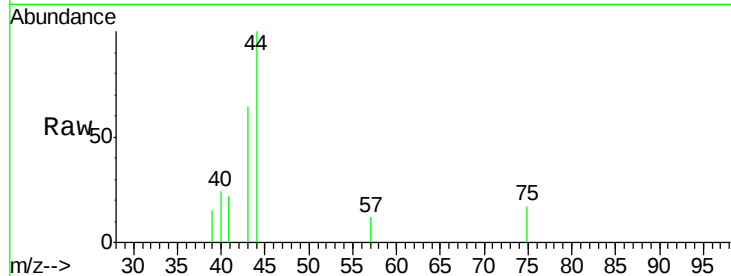
ClientSampled :

Tot Ion: 43 Resp: 643

Ion Ratio Lower Upper

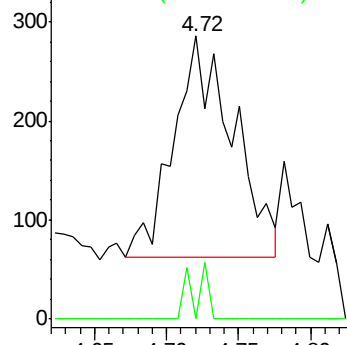
43 100

72 0.0 20.3 30.5#

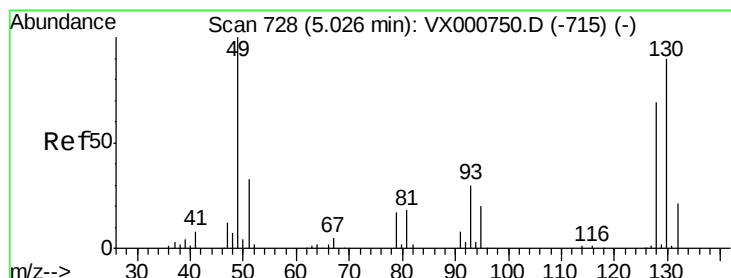
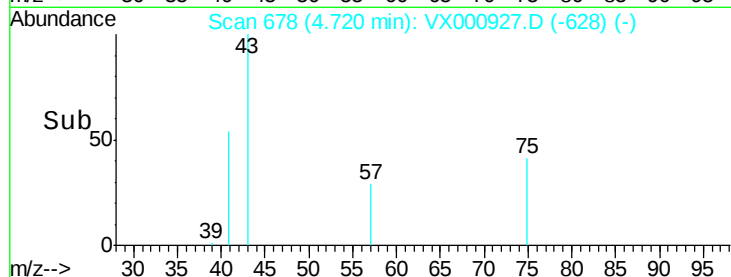


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#28

Bromochloromethane

Concen: 0.232 ug/l

RT: 5.04 min Scan# 731

Delta R.T. 0.02 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

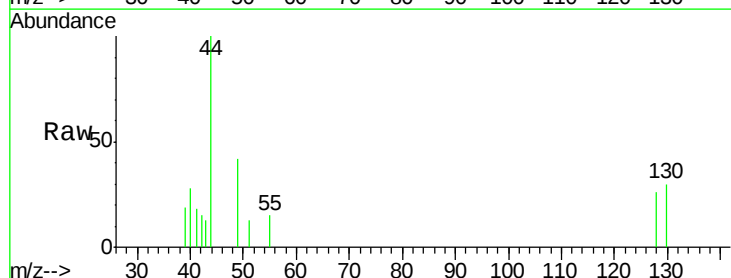
Tgt Ion: 49 Resp: 423

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.2

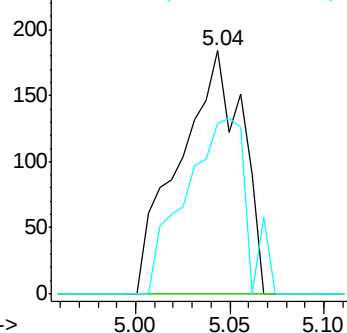
130 71.2 72.6 109.0#



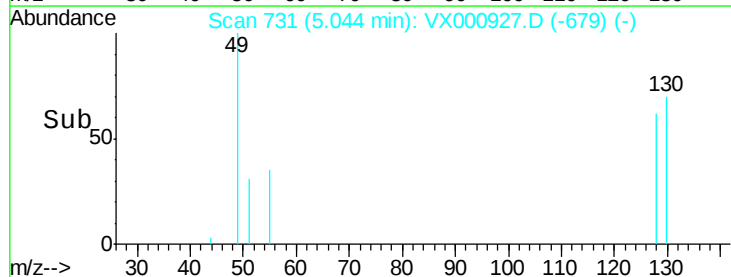
Abundance Ion 48.90 (48.60 to 49.60): VX0

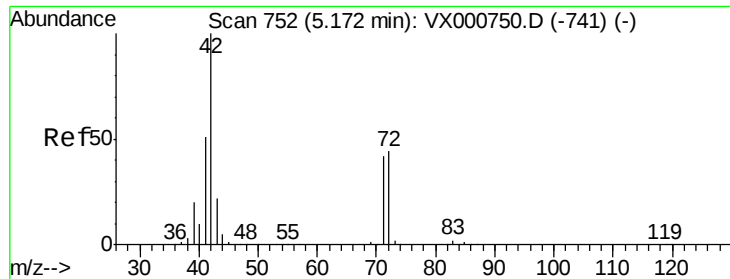
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->





#29

Tetrahydrofuran

Concen: 0.400 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :

MSVOA_X

ClientSampled :

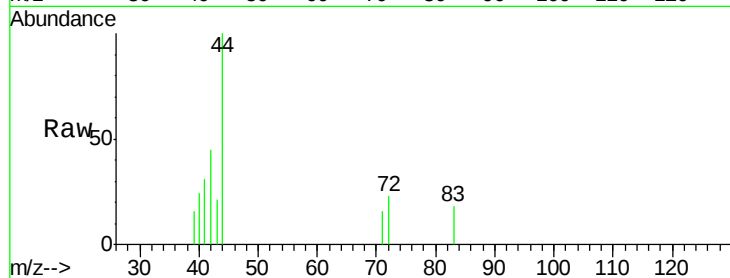
Tot Ion: 42 Resp: 471

Ion Ratio Lower Upper

42 100

72 35.9 35.1 52.7

71 28.7 32.8 49.2#



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

Time-->

5.15 5.20

5.18

250

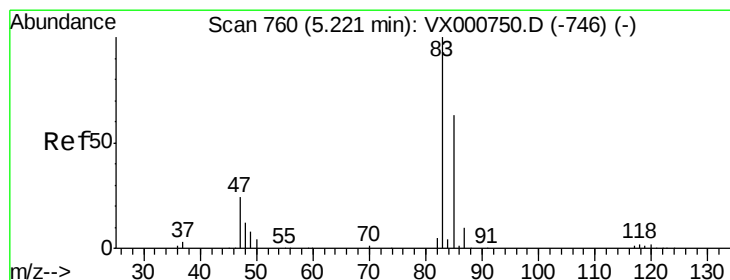
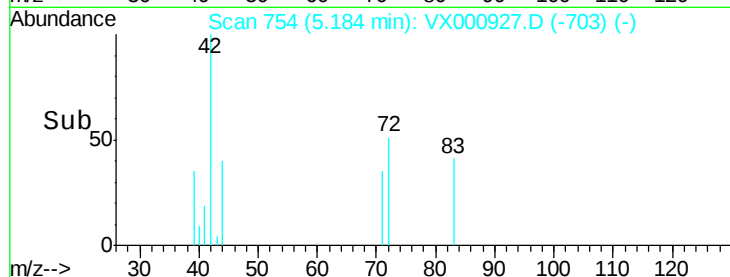
200

150

100

50

0



#30

Chloroform

Concen: 0.462 ug/l

RT: 5.21 min Scan# 759

Delta R.T. -0.01 min

Lab File: VX000927.D

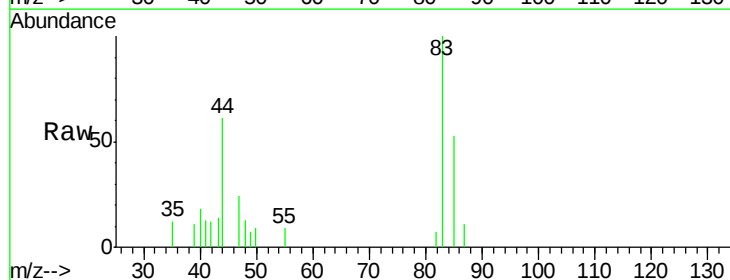
Acq: 16 Apr 2018 18:49

Tgt Ion: 83 Resp: 2213

Ion Ratio Lower Upper

83 100

85 52.9 50.7 76.1



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Time-->

5.15 5.20 5.25 5.30

5.21

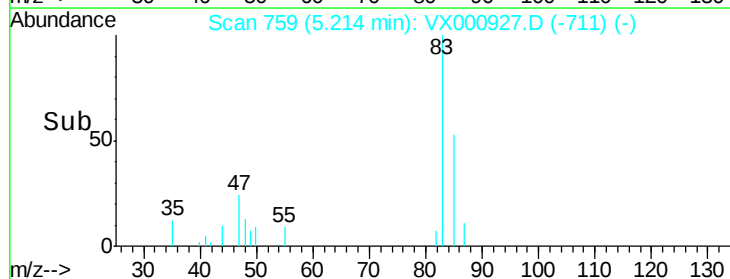
800

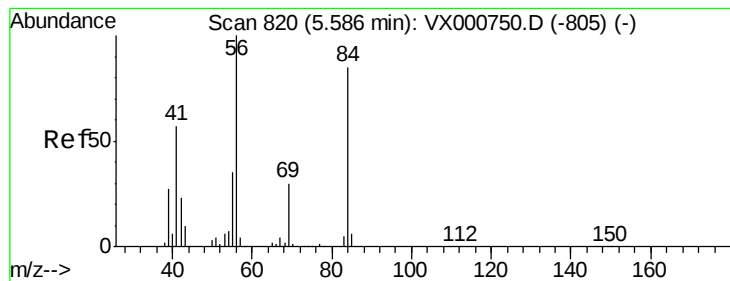
600

400

200

0





#31

Cyclohexane

Concen: 1.002 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :

MSVOA_X

ClientSampled :

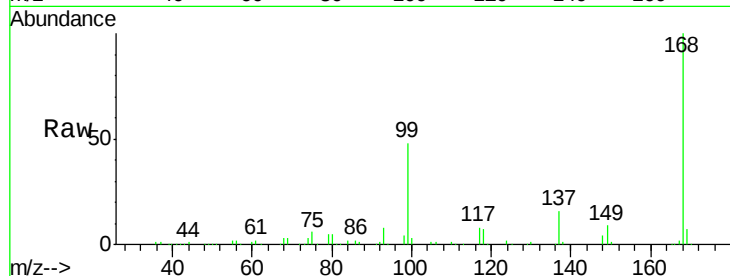
Tot Ion: 56 Resp: 4305

Ion Ratio Lower Upper

56 100

69 169.7 24.2 36.4#

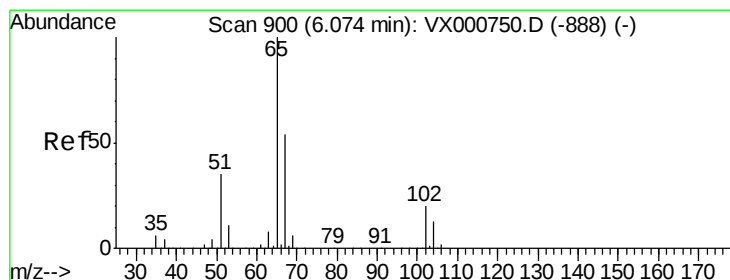
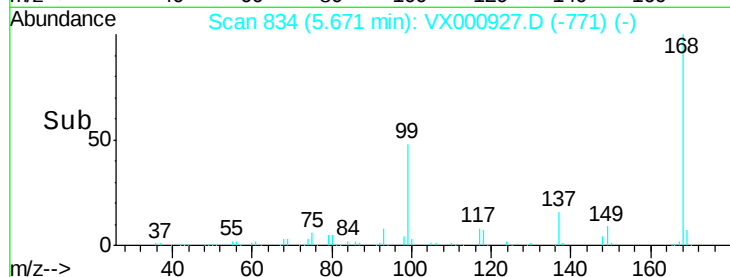
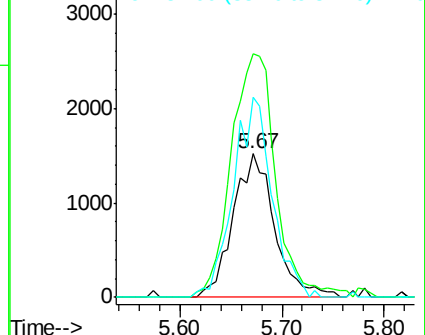
84 139.0 67.6 101.4#



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: 48.618 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000927.D

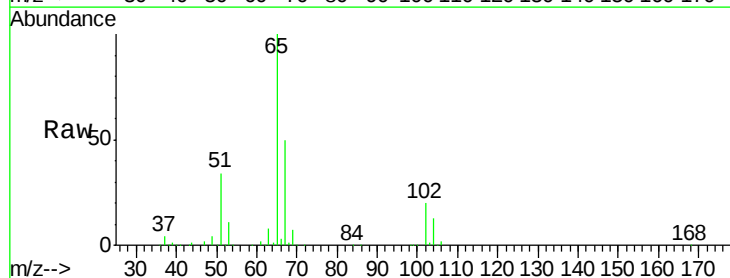
Acq: 16 Apr 2018 18:49

Tgt Ion: 65 Resp: 158452

Ion Ratio Lower Upper

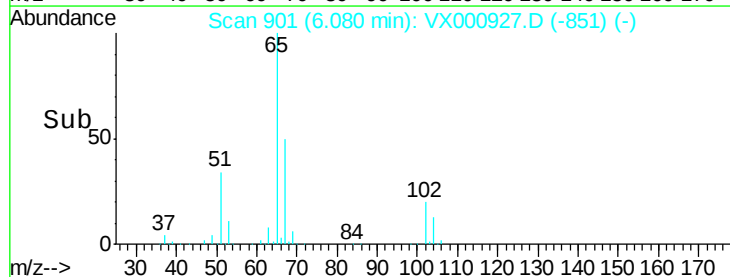
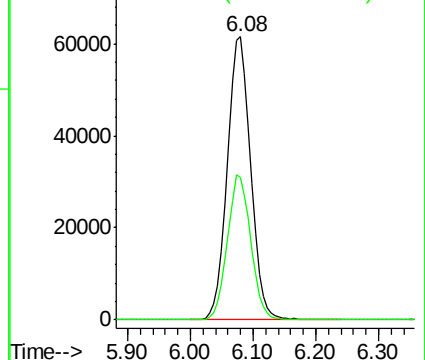
65 100

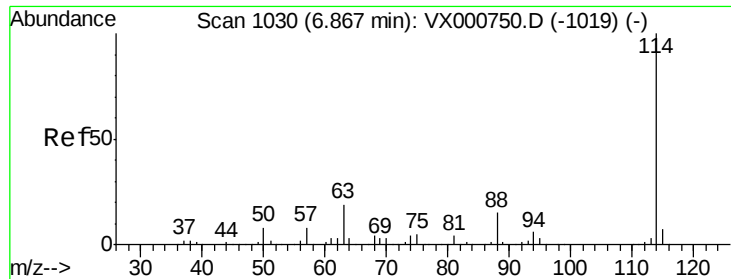
67 51.3 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

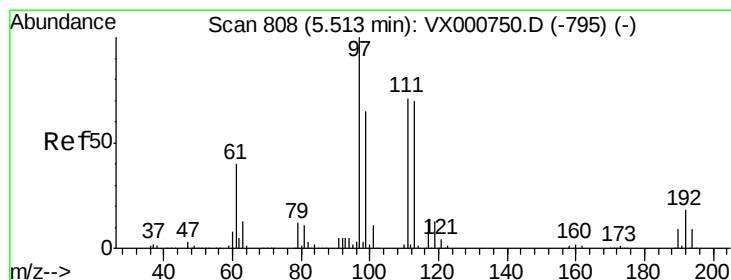
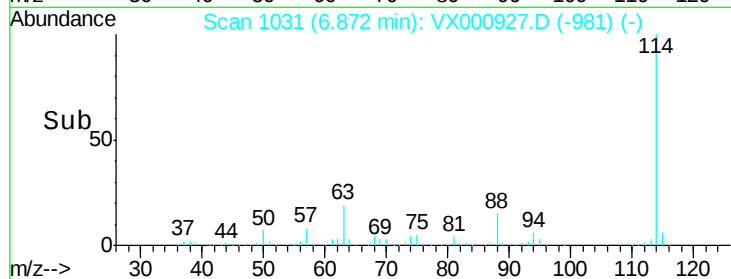
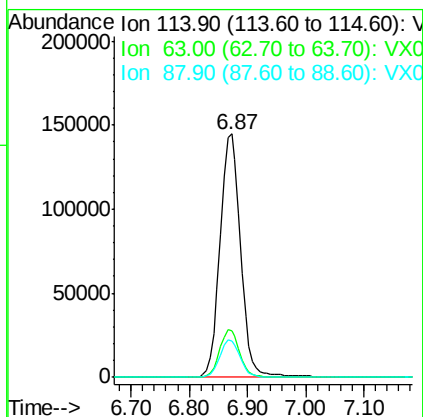
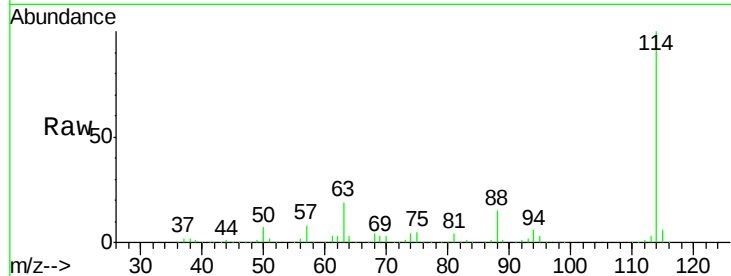




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX000927.D
 Acq: 16 Apr 2018 18:49

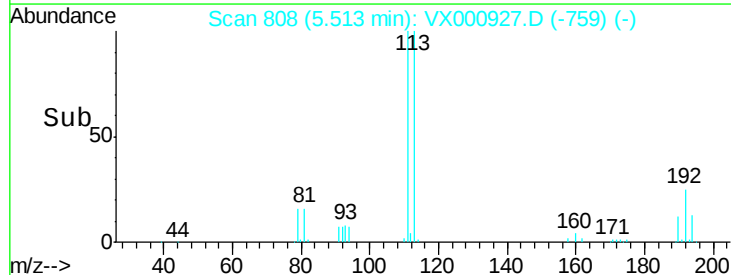
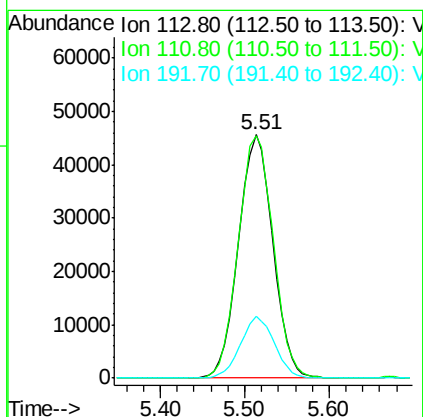
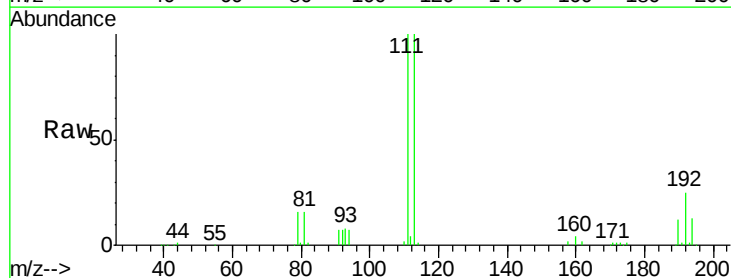
Instrument :
 MSVOA_X
 ClientSampleId :

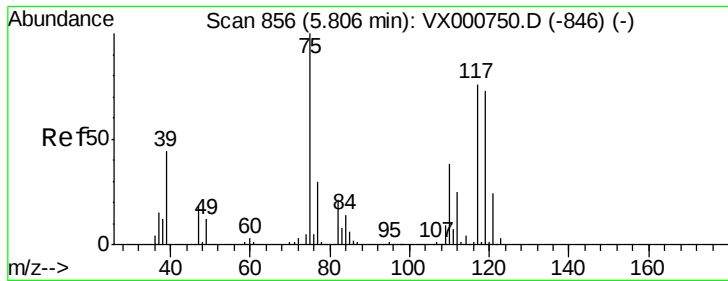
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.4
88	15.1	0.0	31.0



#35
 Dibromofluoromethane
 Concen: 45.998 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX000927.D
 Acq: 16 Apr 2018 18:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.5	122.3
192	25.0	20.4	30.6





#36

1,1-Dichloropropene

Concen: 3.993 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :

MSVOA_X

ClientSampleId :

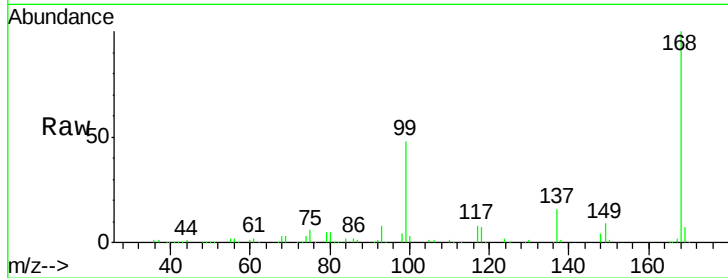
Tot Ion: 75 Resp: 15646

Ion Ratio Lower Upper

75 100

110 10.2 19.2 57.6#

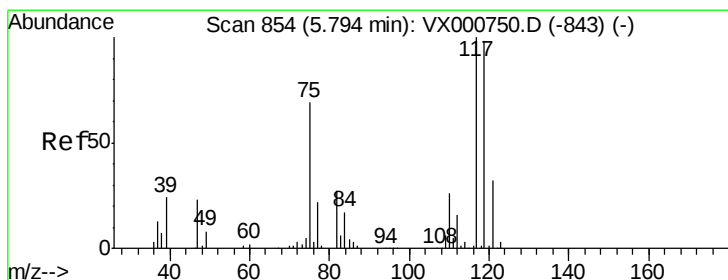
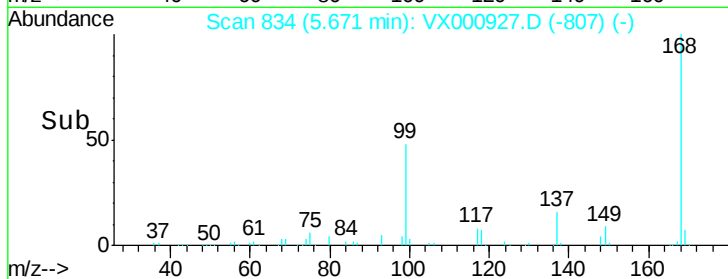
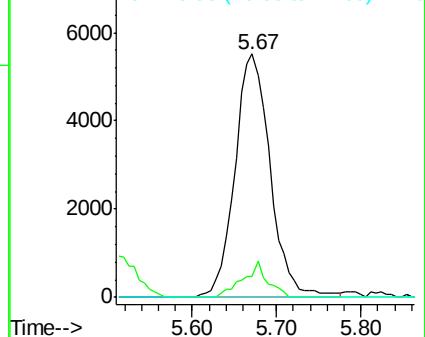
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX000927.D (-807) (-)

Ion 109.90 (109.60 to 110.60): VX000927.D (-807) (-)

Ion 76.90 (76.60 to 77.60): VX000927.D (-807) (-)



#38

Carbon Tetrachloride

Concen: 5.051 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

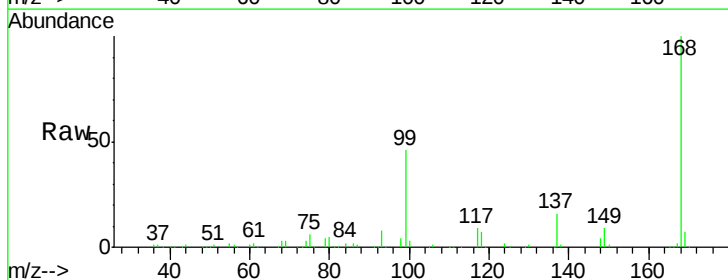
Tgt Ion: 117 Resp: 22153

Ion Ratio Lower Upper

117 100

119 5.2 78.4 117.6#

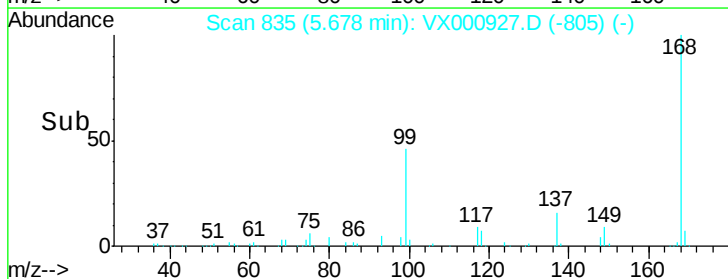
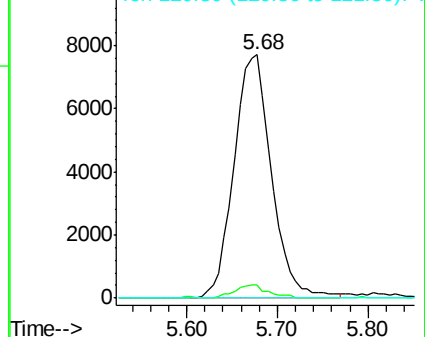
121 0.0 25.4 38.0#

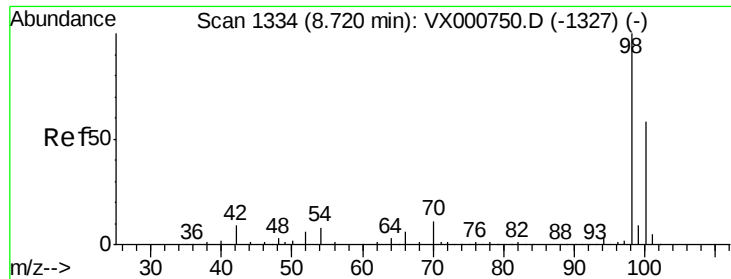


Abundance Ion 116.80 (116.50 to 117.50): VX000927.D (-805) (-)

Ion 118.80 (118.50 to 119.50): VX000927.D (-805) (-)

Ion 120.80 (120.50 to 121.50): VX000927.D (-805) (-)





#50

Toluene-d8

Concen: 48.978 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

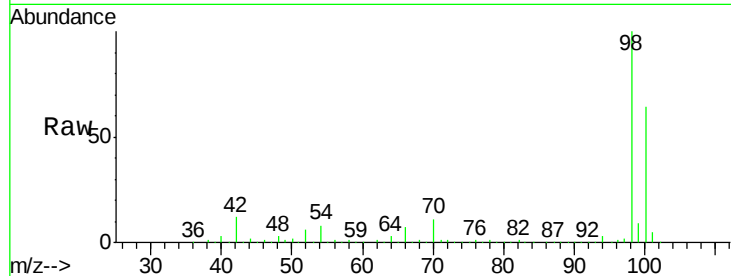
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 499925

Ion Ratio Lower Upper

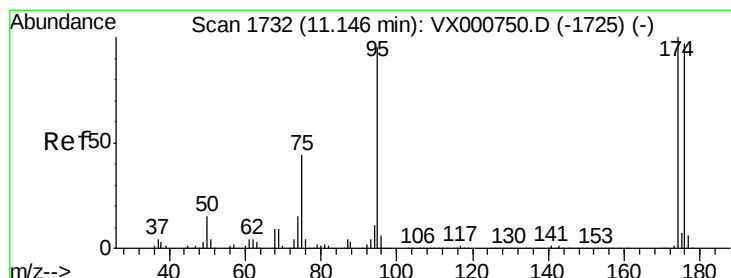
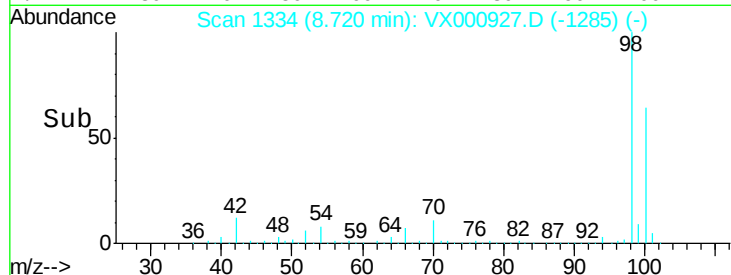
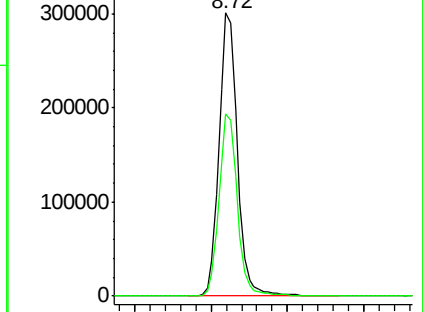
98 100

100 64.3 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX000927.D (-1285) (-)

Ion 100.00 (99.70 to 100.70): VX000927.D (-1285) (-)



#62

4-Bromofluorobenzene

Concen: 47.252 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

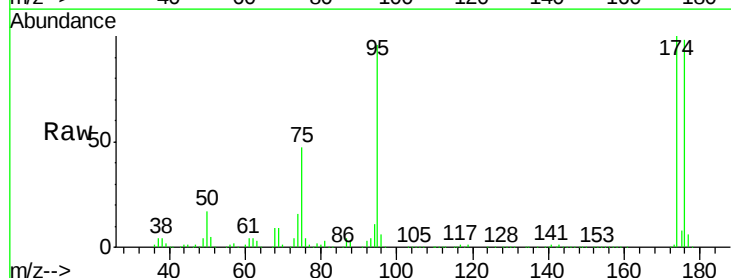
Tgt Ion: 95 Resp: 199543

Ion Ratio Lower Upper

95 100

174 98.3 0.0 198.4

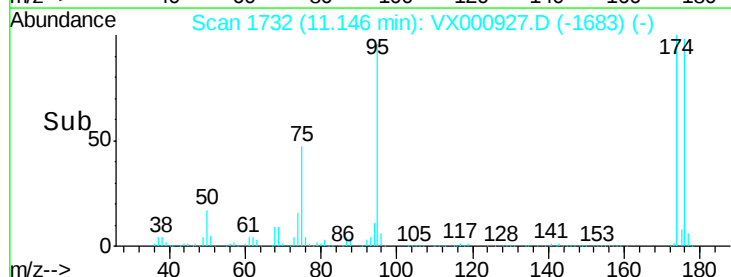
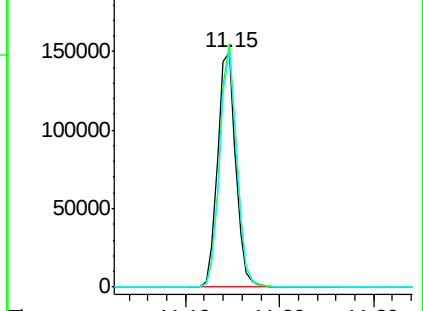
176 95.9 0.0 194.4

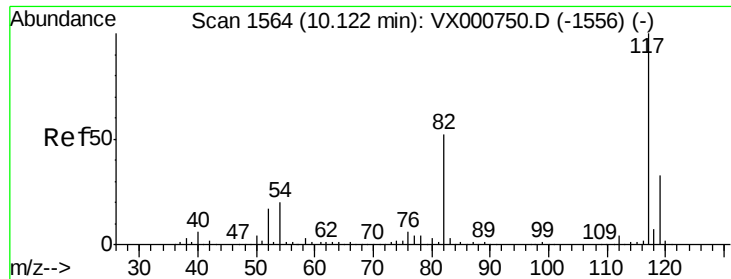


Abundance Ion 94.90 (94.60 to 95.60): VX000927.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000927.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000927.D (-1683) (-)

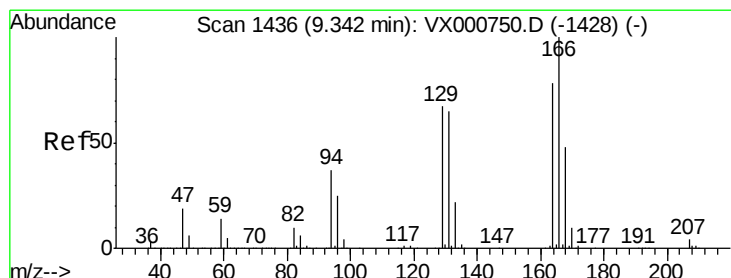
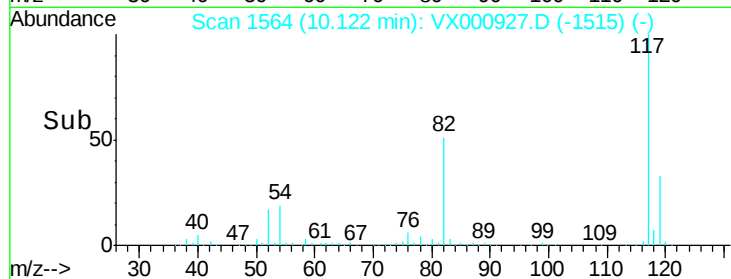
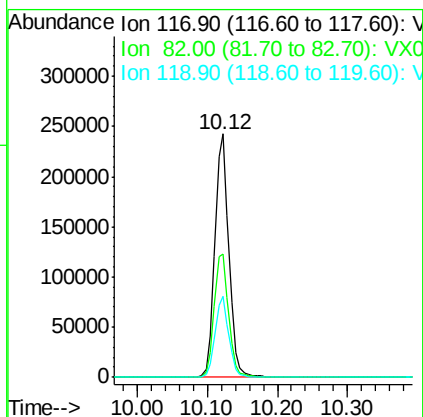
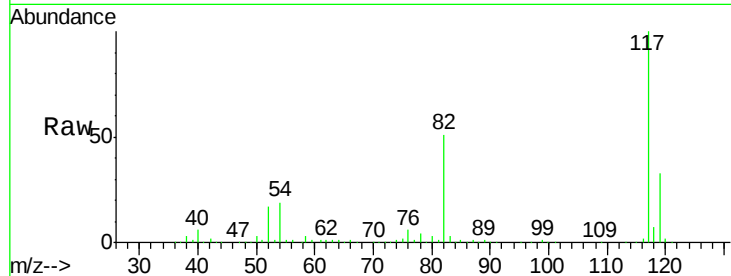




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000927.D
Acq: 16 Apr 2018 18:49

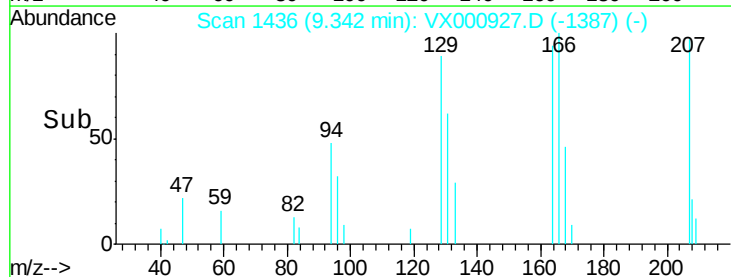
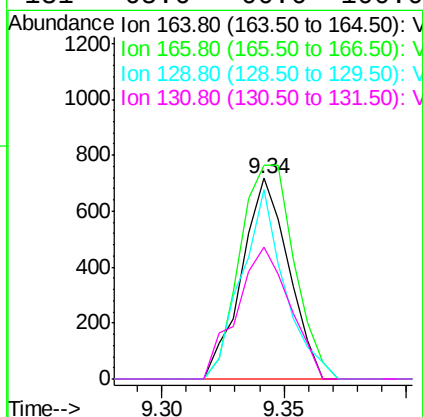
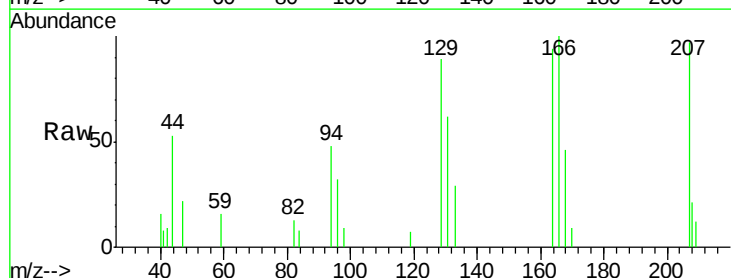
Instrument :
MSVOA_X
ClientSampleId :

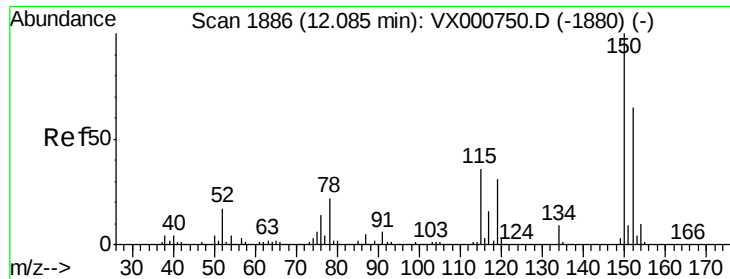
Tot Ion:117 Resp: 336882
Ion Ratio Lower Upper
117 100
82 50.6 41.9 62.9
119 33.1 26.0 39.0



#64
Tetrachloroethene
Concen: 0.291 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX000927.D
Acq: 16 Apr 2018 18:49

Tgt Ion:164 Resp: 958
Ion Ratio Lower Upper
164 100
166 106.4 102.8 154.2
129 94.3 68.5 102.7
131 65.6 66.6 100.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :

MSVOA_X

ClientSampleId :

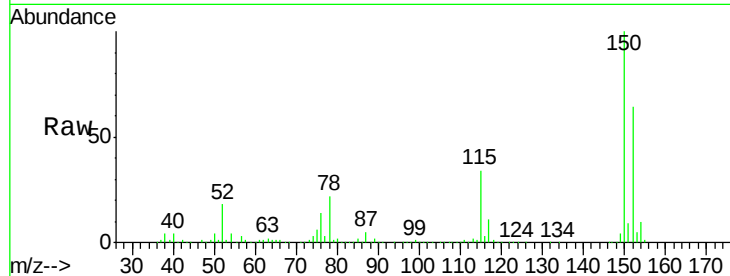
Tot Ion:152 Resp: 230582

Ion Ratio Lower Upper

152 100

115 53.5 37.9 113.7

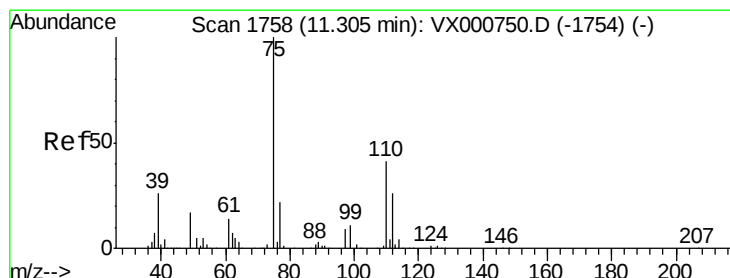
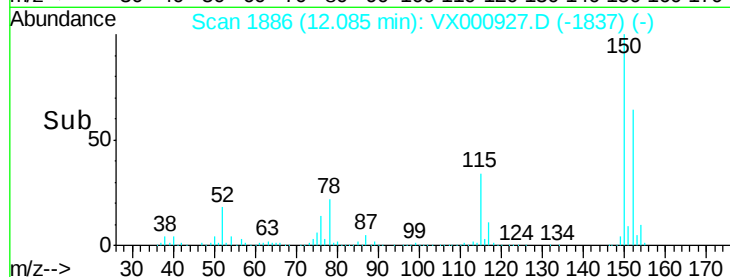
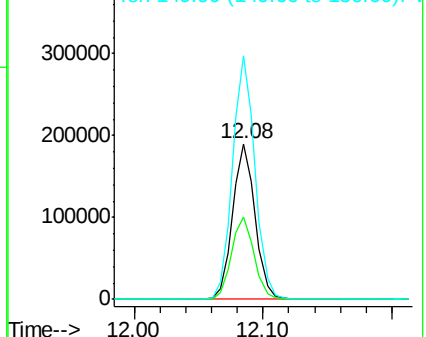
150 156.3 0.0 348.0



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: 24.806 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000927.D

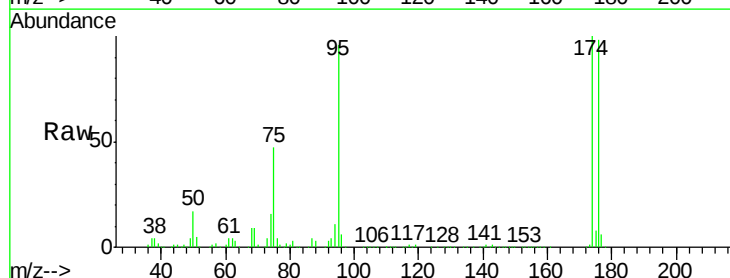
Acq: 16 Apr 2018 18:49

Tgt Ion: 75 Resp: 98646

Ion Ratio Lower Upper

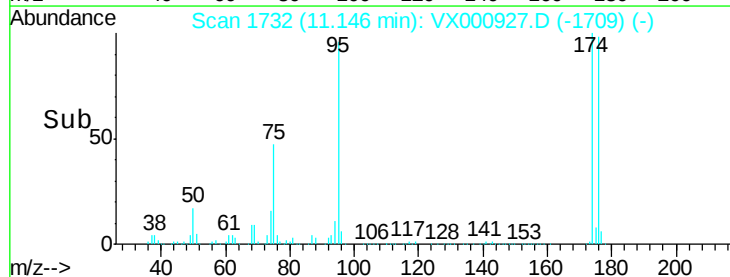
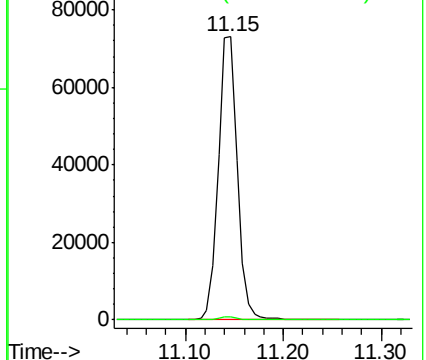
75 100

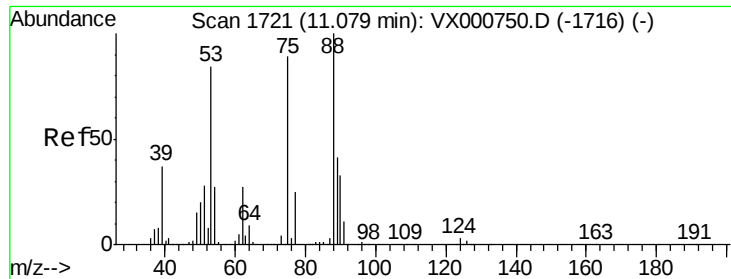
77 1.1 20.5 61.5#



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: 68.237 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.07 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

Instrument :

MSVOA_X

ClientSampleId :

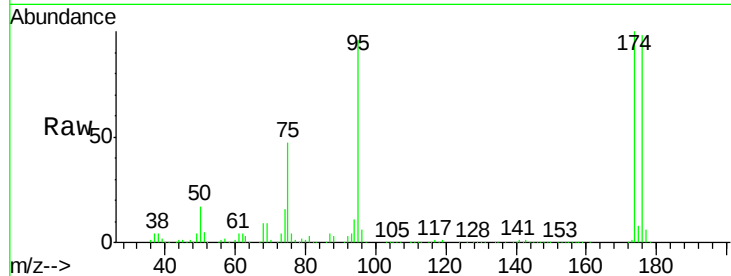
Tot Ion: 75 Resp: 98646

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

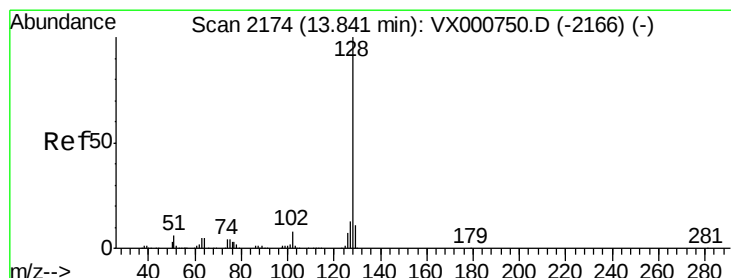
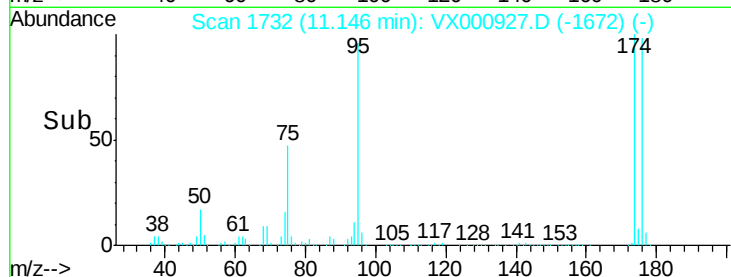
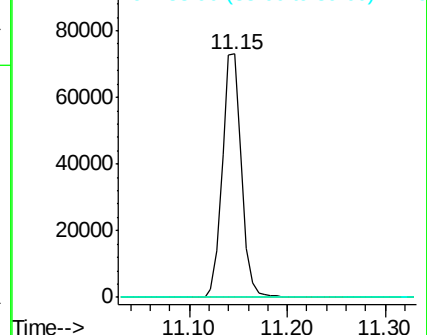
89 0.0 40.9 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VX000927.D (-1672) (-)

Ion 53.00 (52.70 to 53.70): VX000927.D (-1672) (-)

Ion 88.90 (88.60 to 89.60): VX000927.D (-1672) (-)



#95

Naphthalene

Concen: 3.832 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000927.D

Acq: 16 Apr 2018 18:49

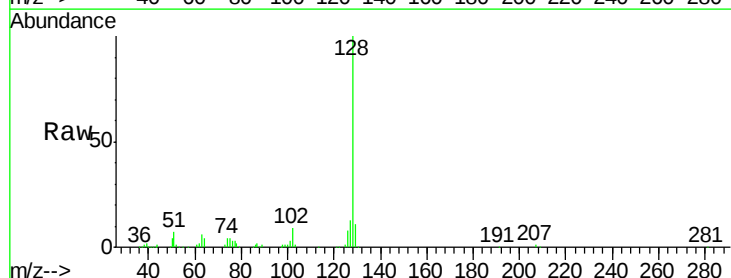
Tgt Ion: 128 Resp: 64293

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

129 11.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): VX000927.D (-2125) (-)

Ion 127.00 (126.70 to 127.70): VX000927.D (-2125) (-)

Ion 129.00 (128.70 to 129.70): VX000927.D (-2125) (-)

