

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042018\
 Data File : VX001011.D
 Acq On : 20 Apr 2018 16:17
 Operator : JC/MD
 Sample : J2349-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 21 05:35:18 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	246679	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	339878	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	315289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	209342	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	154056	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
35) Dibromofluoromethane	5.51	113	121226	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
50) Toluene-d8	8.72	98	478182	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	11.14	95	186167	46.29	ug/l	0.00
Spiked Amount			Recovery	=	92.58%	

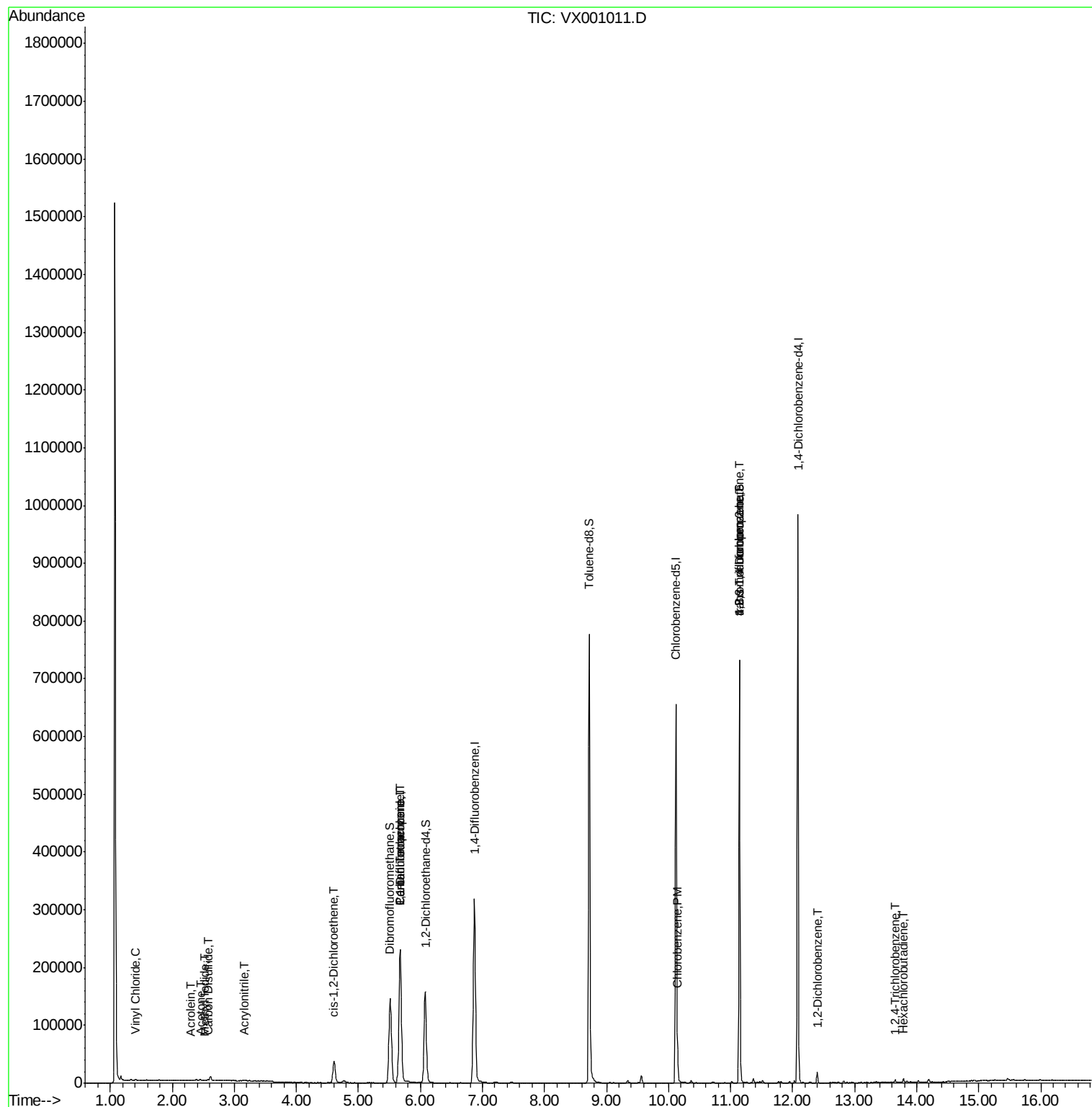
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	1355	0.46	ug/l	98
5) Bromomethane	1.65	94	410	Below	Cal	83
10) Methyl Iodide	2.51	142	377	7.72	ug/l #	88
13) Acrolein	2.30	56	337	13.13	ug/l #	14
15) Acrylonitrile	3.16	53	635	0.50	ug/l #	80
16) Acetone	2.45	43	1643	1.40	ug/l	97
17) Carbon Disulfide	2.57	76	1913	0.28	ug/l #	94
20) Methylene Chloride	2.87	84	228	Below	Cal #	62
27) cis-1,2-Dichloroethene	4.60	96	24136	8.10	ug/l	88
36) 1,1-Dichloropropene	5.67	75	14763	3.70	ug/l #	50
38) Carbon Tetrachloride	5.67	117	21362	5.28	ug/l #	16
65) Chlorobenzene	10.15	112	18179	2.17	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	93732	25.81	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	93732	77.30	ug/l #	8
91) 1,2-Dichlorobenzene	12.40	146	4594	0.64	ug/l	97
93) 1,2,4-Trichlorobenzene	13.65	180	1388	0.23	ug/l	99
94) Hexachlorobutadiene	13.79	225	1082	0.40	ug/l	93

(#) = 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: VX001011.D

Acq: 20 Apr 2018 16:17

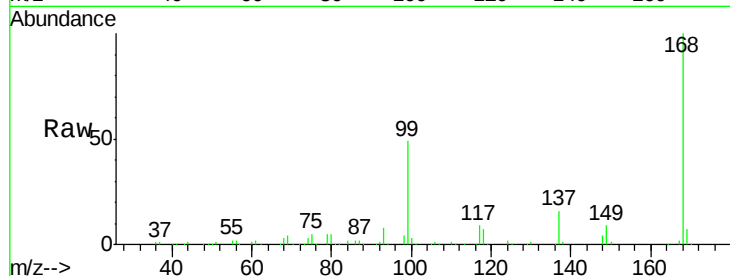
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 246679

Ion Ratio Lower Upper

168 100

99 49.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

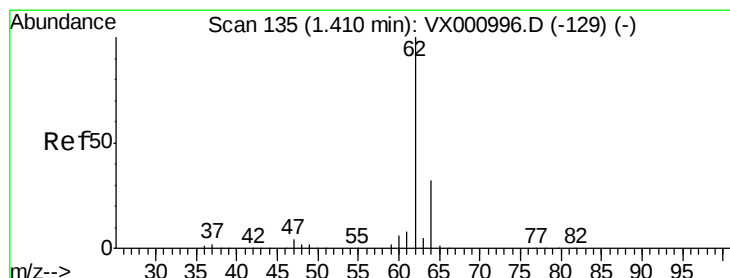
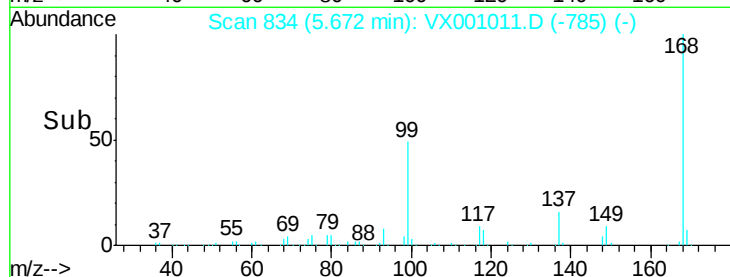
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.46 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX001011.D

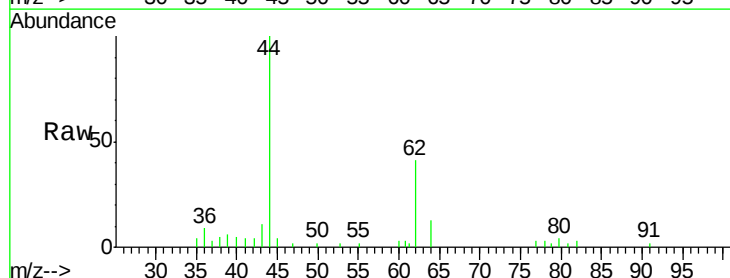
Acq: 20 Apr 2018 16:17

Tgt Ion: 62 Resp: 1355

Ion Ratio Lower Upper

62 100

64 33.0 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

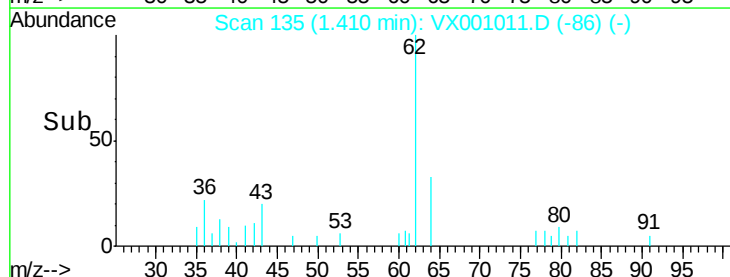
1.41

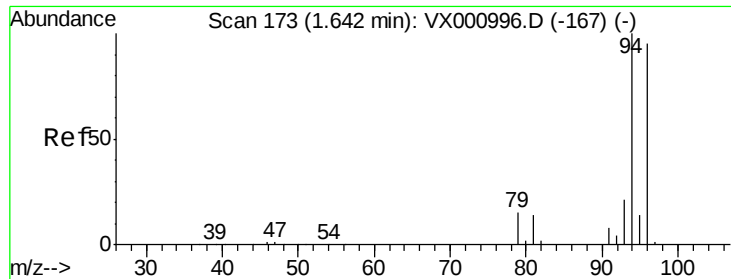
1000

500

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

Instrument :

MSVOA_X

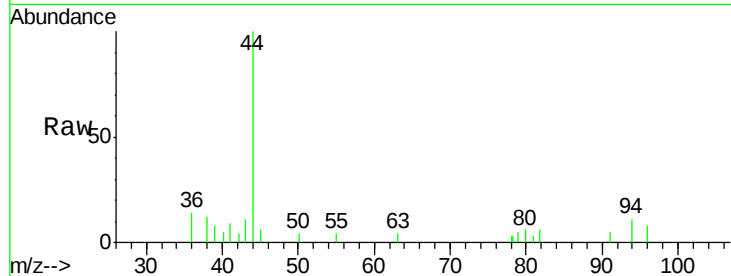
ClientSampled :

Tot Ion: 94 Resp: 410

Ion Ratio Lower Upper

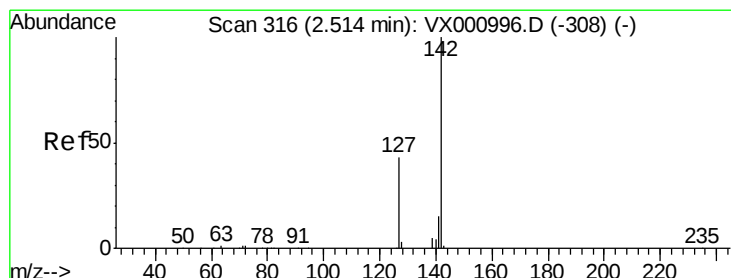
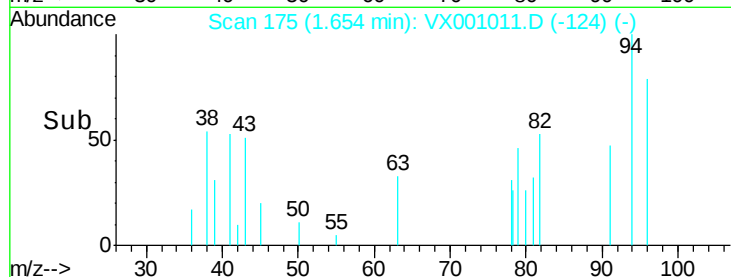
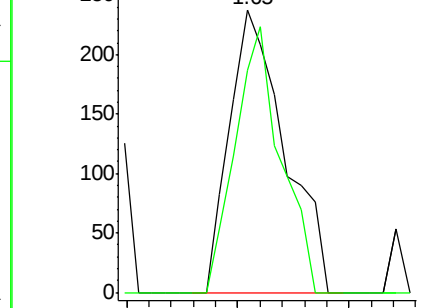
94 100

96 78.6 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 7.72 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

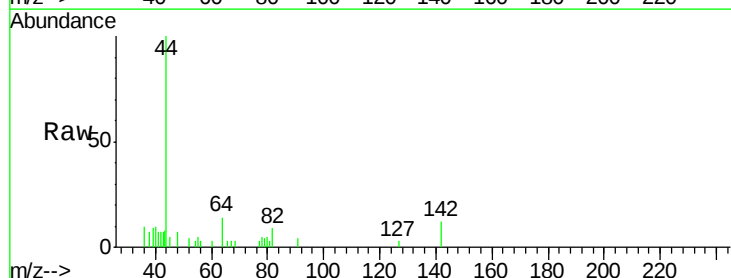
Tgt Ion:142 Resp: 377

Ion Ratio Lower Upper

142 100

127 39.8 34.0 51.0

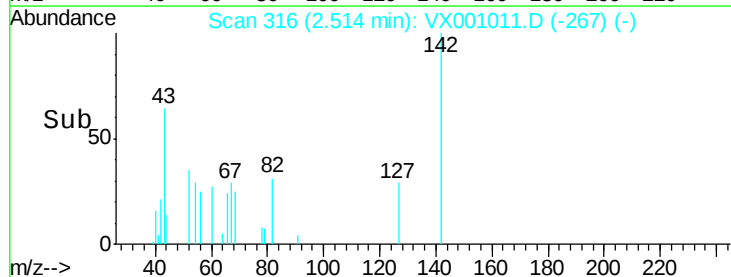
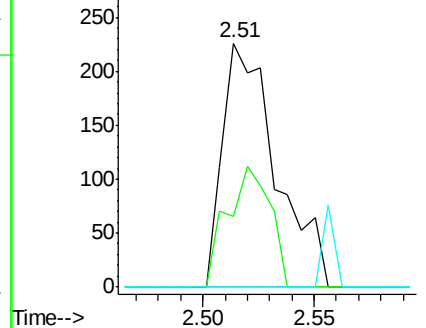
141 0.0 11.4 17.2#

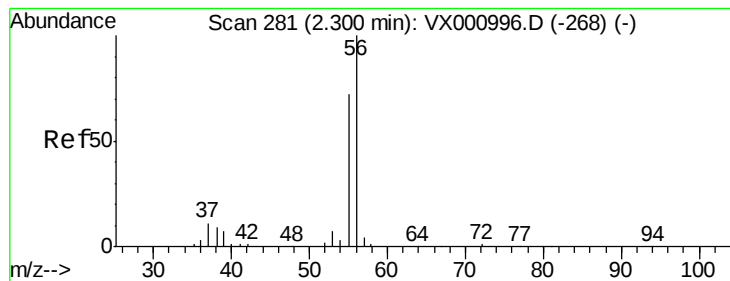


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 13.13 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

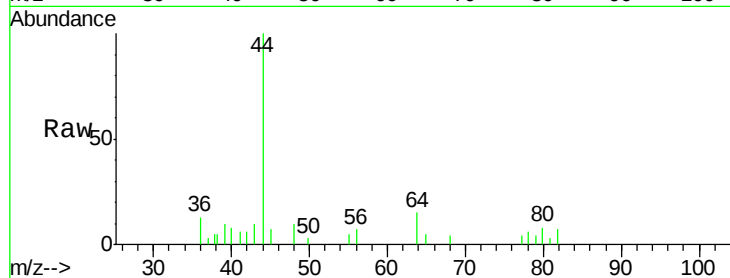
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 337

Ion Ratio Lower Upper

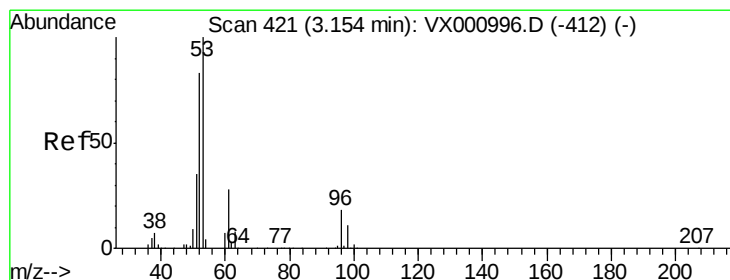
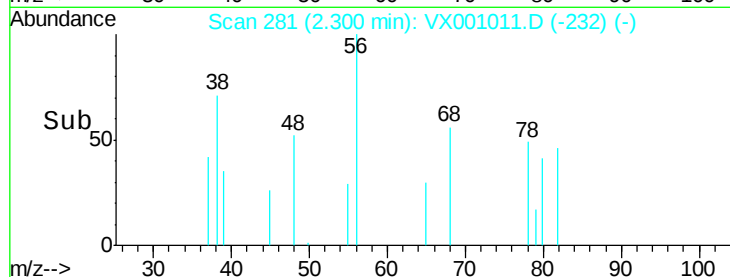
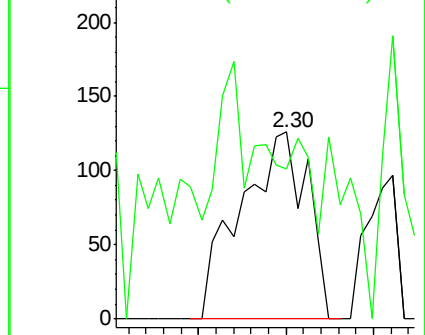
56 100

55 0.0 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.50 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

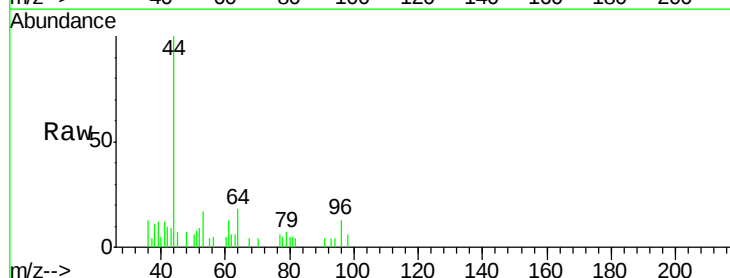
Tgt Ion: 53 Resp: 635

Ion Ratio Lower Upper

53 100

52 69.1 66.4 99.6

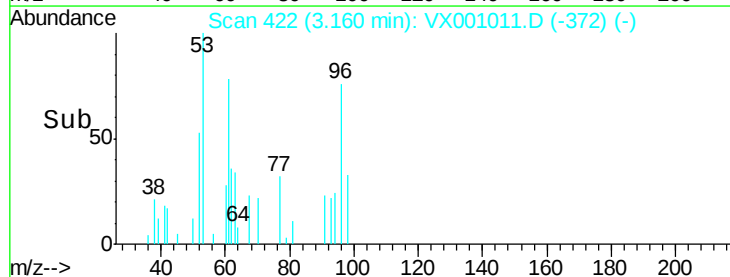
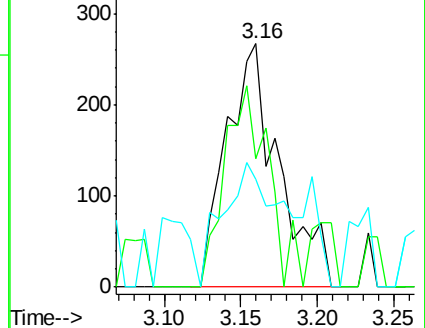
51 54.5 29.0 43.6#

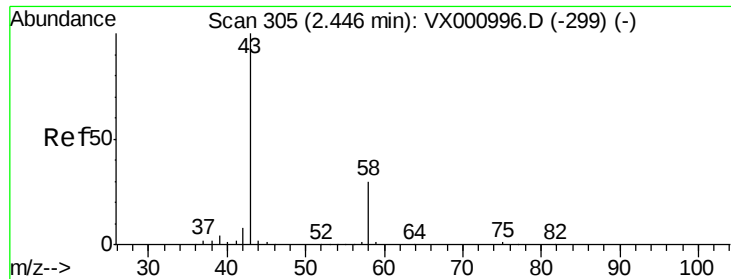


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.40 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

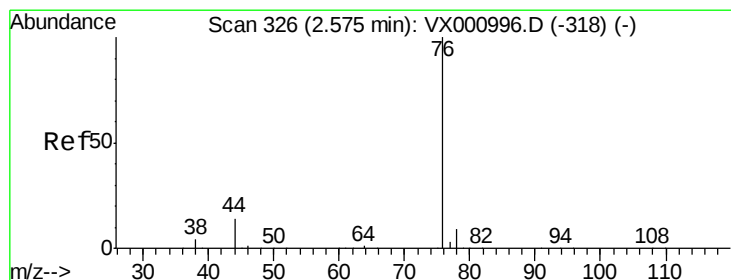
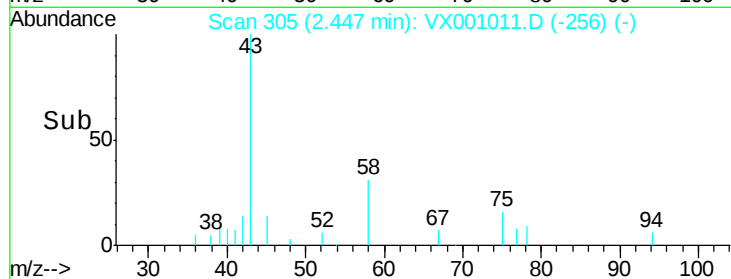
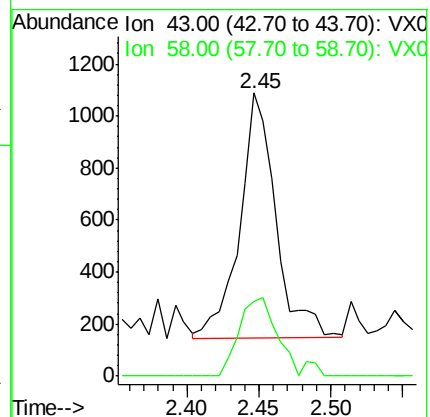
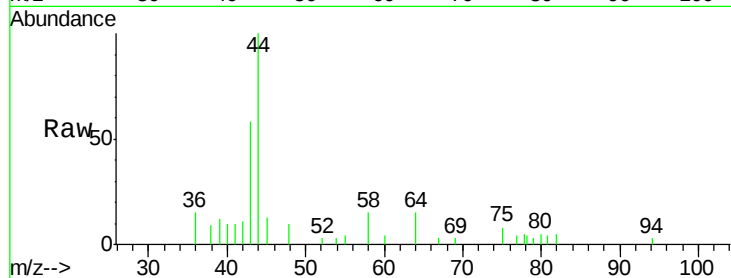
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1643

Ion Ratio Lower Upper

43 100

58 31.1 23.7 35.5



#17

Carbon Disulfide

Concen: 0.28 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX001011.D

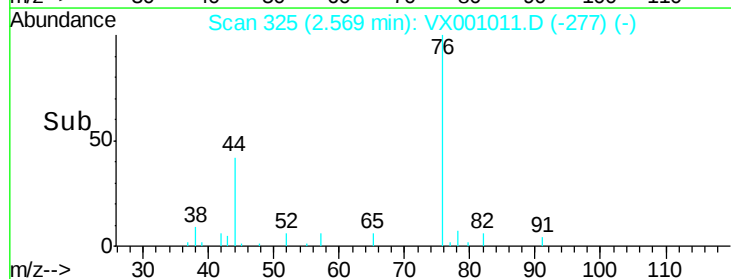
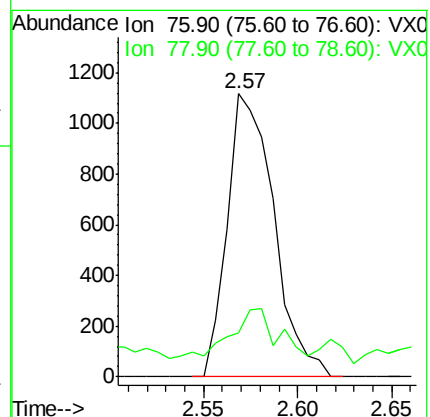
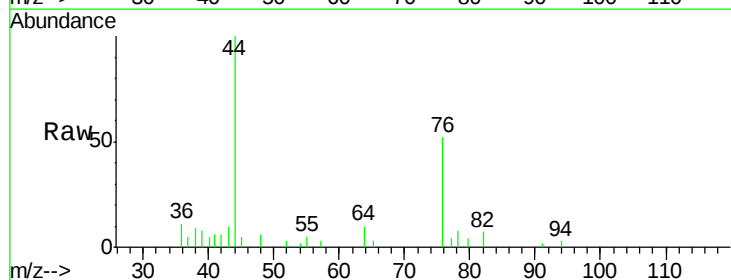
Acq: 20 Apr 2018 16:17

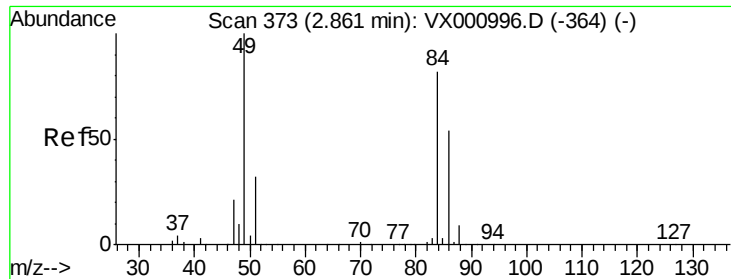
Tgt Ion: 76 Resp: 1913

Ion Ratio Lower Upper

76 100

78 6.8 7.3 10.9#

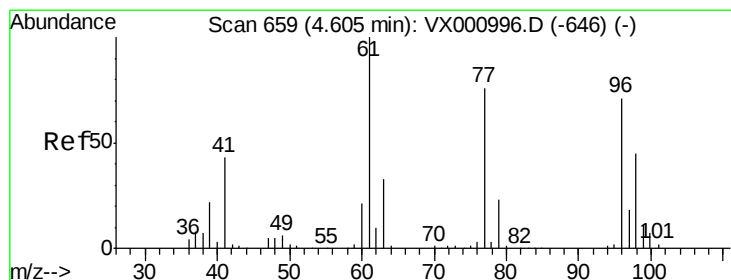
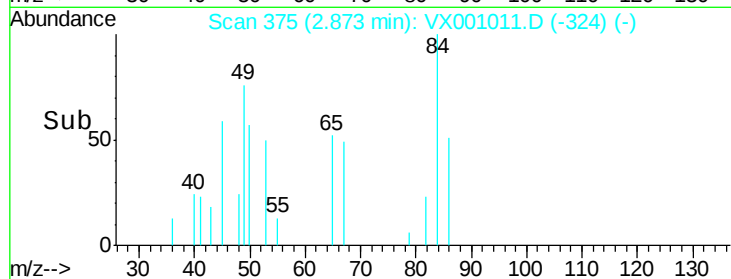
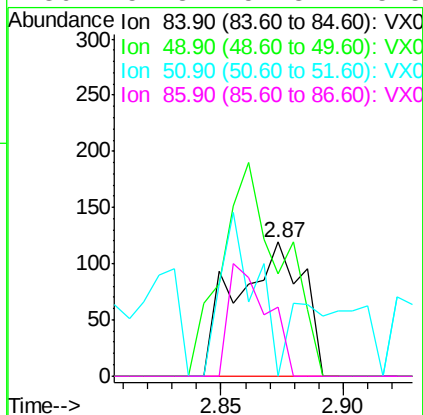
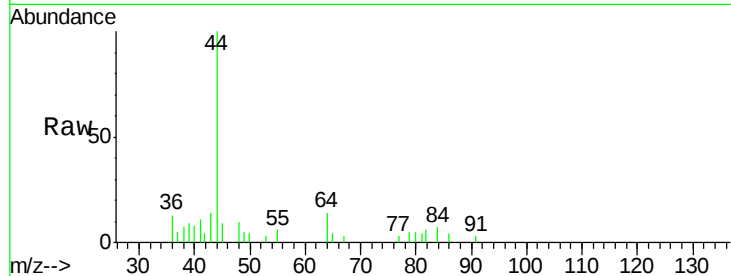




#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 375
Delta R.T. 0.01 min
Lab File: VX001011.D
Acq: 20 Apr 2018 16:17

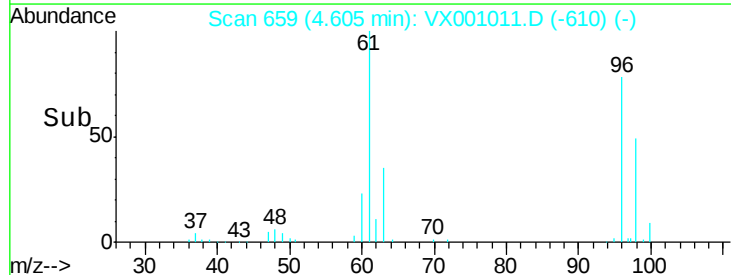
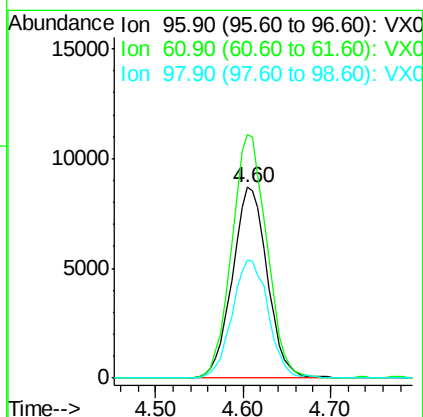
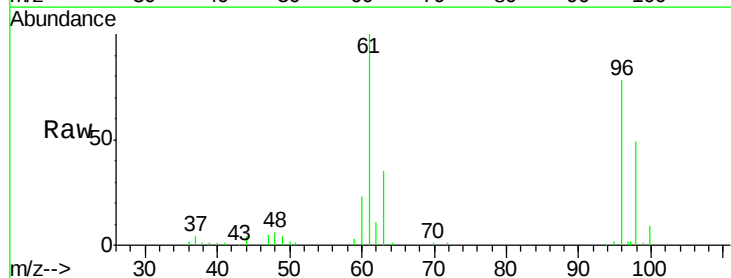
Instrument :
MSVOA_X
ClientSampled :

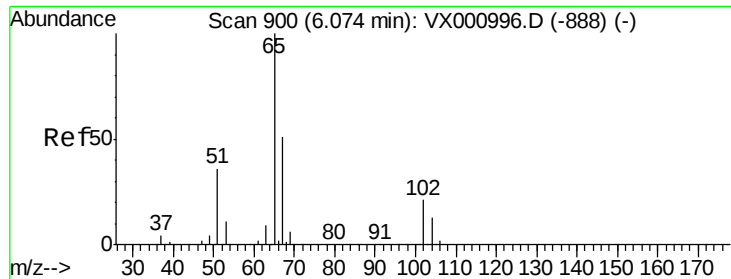
Tot Ion: 84 Resp: 228
Ion Ratio Lower Upper
84 100
49 76.5 97.1 145.7#
51 0.0 30.8 46.2#
86 51.3 52.3 78.5#



#27
cis-1,2-Dichloroethene
Concen: 8.10 ug/l
RT: 4.60 min Scan# 659
Delta R.T. 0.00 min
Lab File: VX001011.D
Acq: 20 Apr 2018 16:17

Tgt Ion: 96 Resp: 24136
Ion Ratio Lower Upper
96 100
61 127.8 0.0 297.0
98 63.8 0.0 130.0





#33

1,2-Dichloroethane-d4

Concen: 49.27 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

Instrument :

MSVOA_X

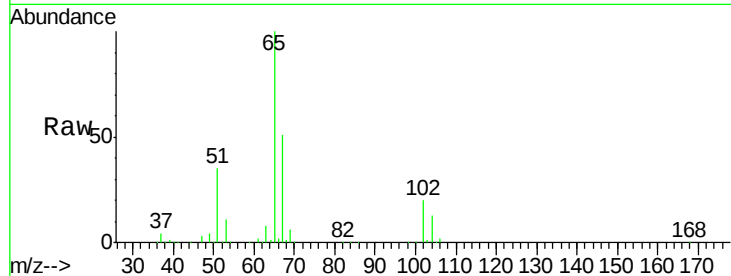
ClientSampleId :

Tot Ion: 65 Resp: 154056

Ion Ratio Lower Upper

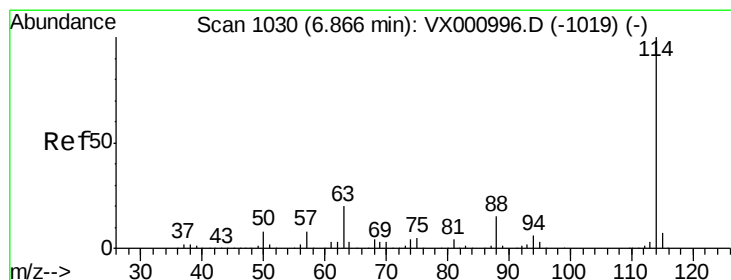
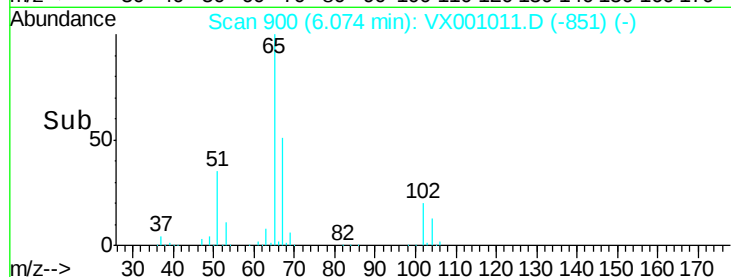
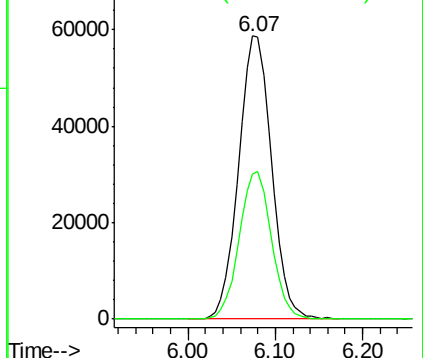
65 100

67 51.3 0.0 102.6



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: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

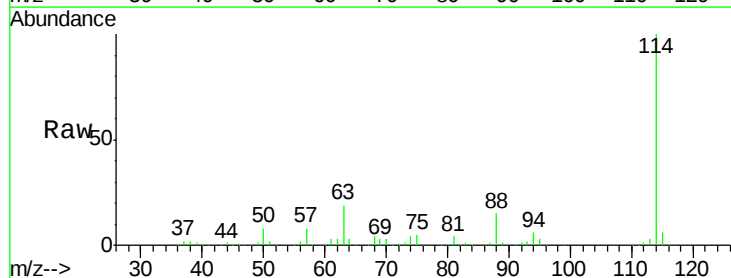
Tgt Ion: 114 Resp: 339878

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.4

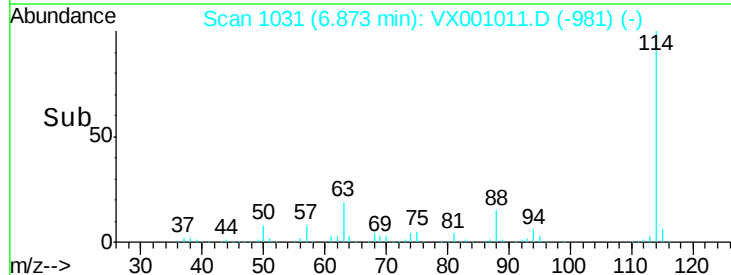
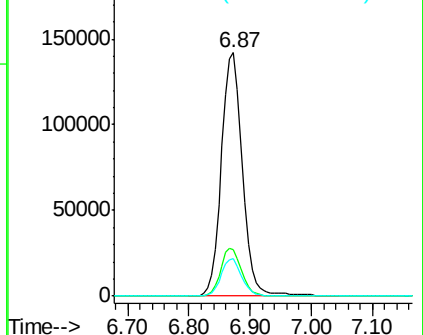
88 15.4 0.0 29.8

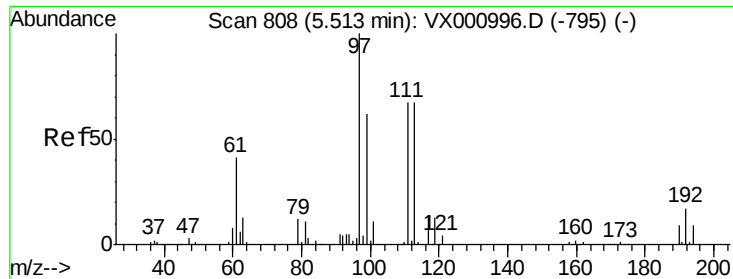


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

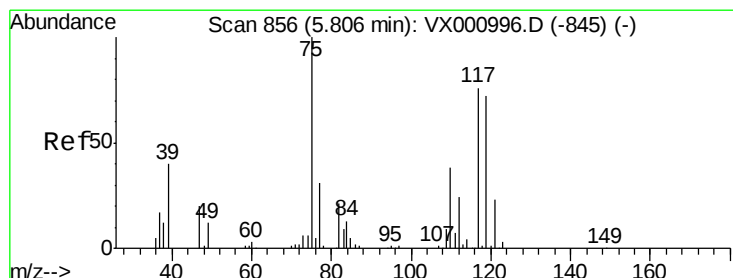
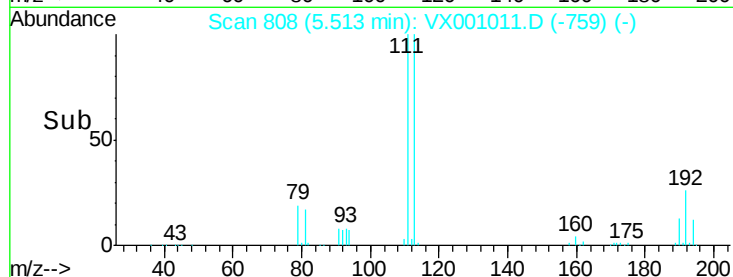
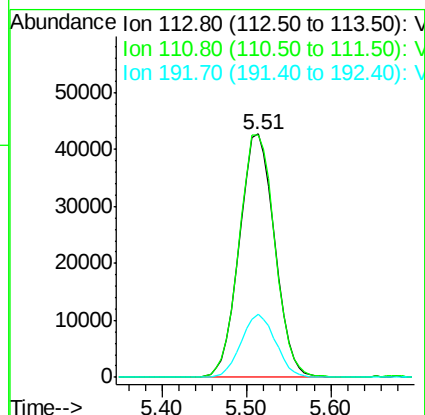
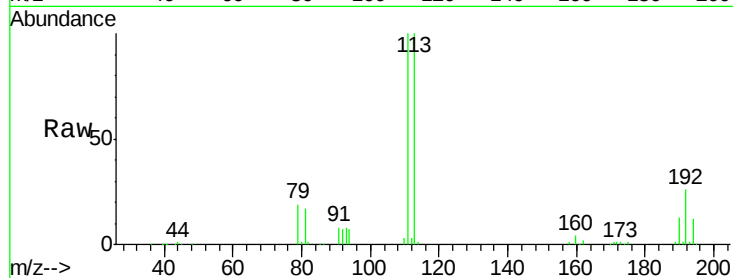




#35
 Dibromofluoromethane
 Concen: 46.77 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.00 min
 Lab File: VX001011.D
 Acq: 20 Apr 2018 16:17

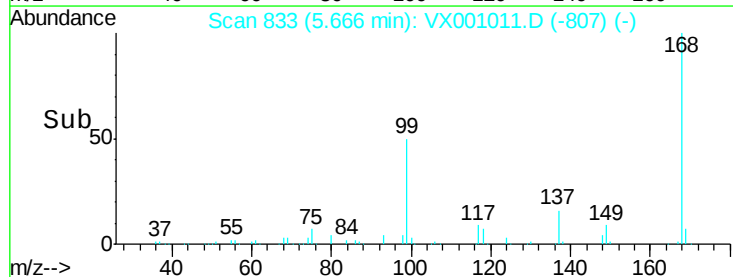
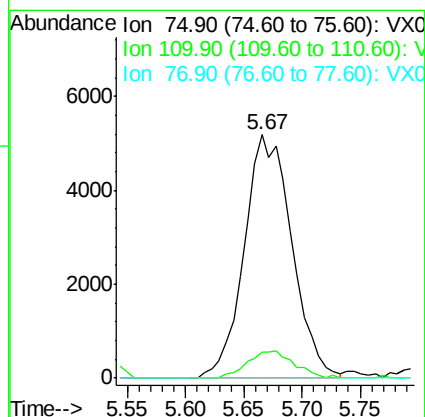
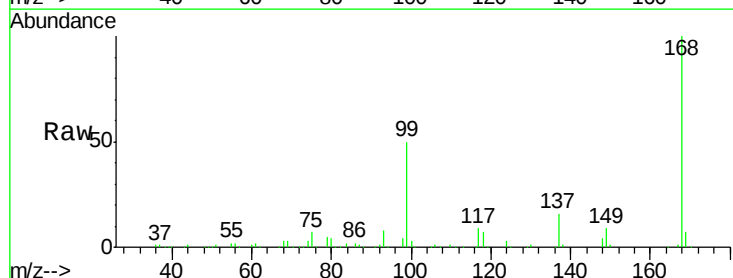
Instrument :
 MSVOA_X
 ClientSampled :

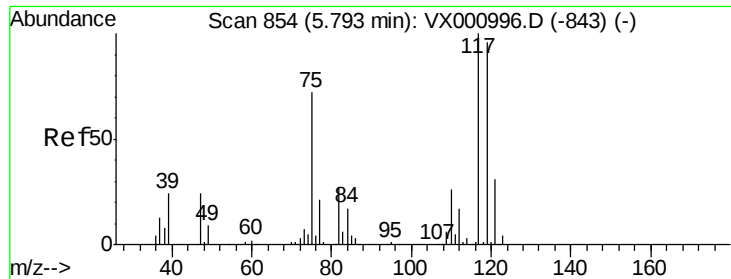
Tot Ion:113 Resp: 121226
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.4 122.2
 192 25.4 20.4 30.6



#36
 1,1-Dichloropropene
 Concen: 3.70 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX001011.D
 Acq: 20 Apr 2018 16:17

Tgt Ion: 75 Resp: 14763
 Ion Ratio Lower Upper
 75 100
 110 11.0 18.7 56.1#
 77 0.0 25.0 37.4#

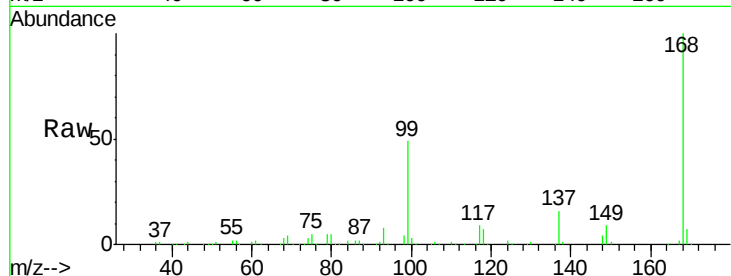




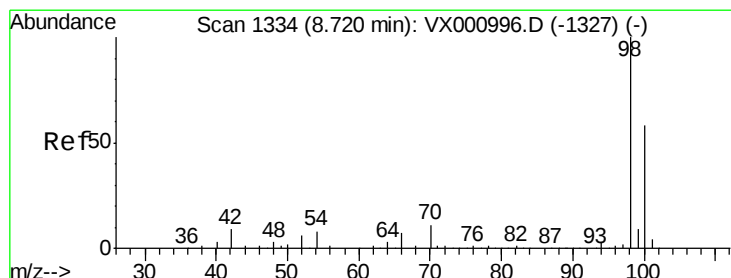
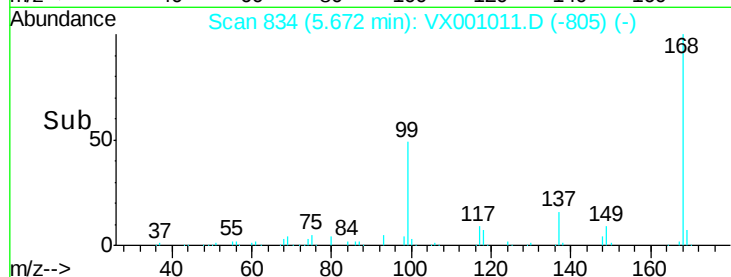
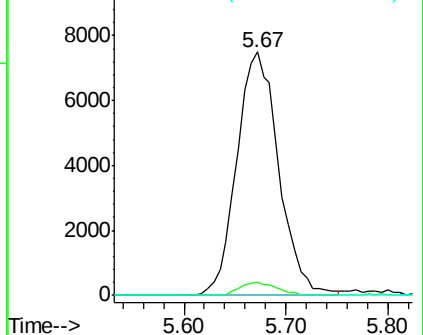
#38
Carbon Tetrachloride
Concen: 5.28 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX001011.D
Acq: 20 Apr 2018 16:17

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 21362
Ion Ratio Lower Upper
117 100
119 5.3 76.5 114.7#
121 0.0 24.5 36.7#

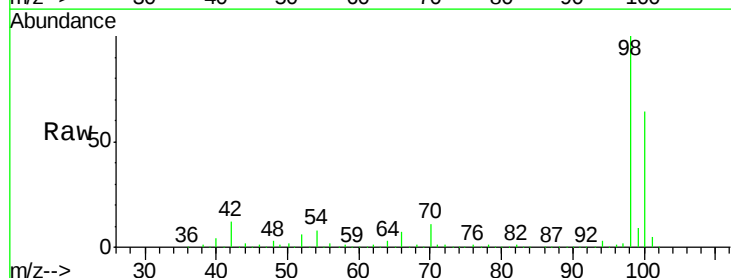


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

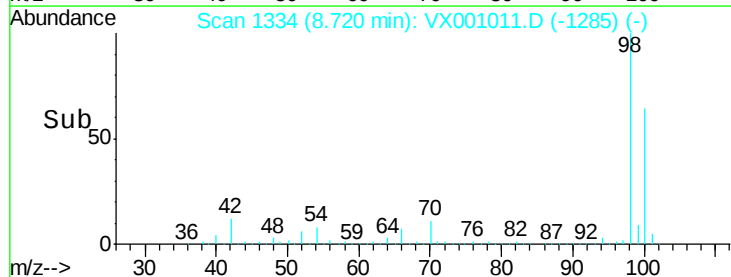
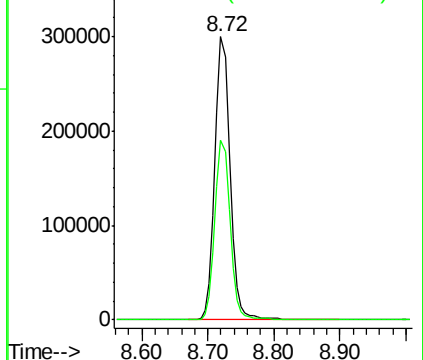


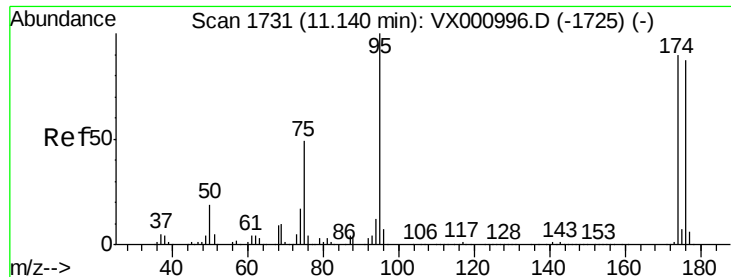
#50
Toluene-d8
Concen: 49.90 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001011.D
Acq: 20 Apr 2018 16:17

Tgt Ion: 98 Resp: 478182
Ion Ratio Lower Upper
98 100
100 64.1 51.9 77.9



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





#62

4-Bromofluorobenzene

Concen: 46.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

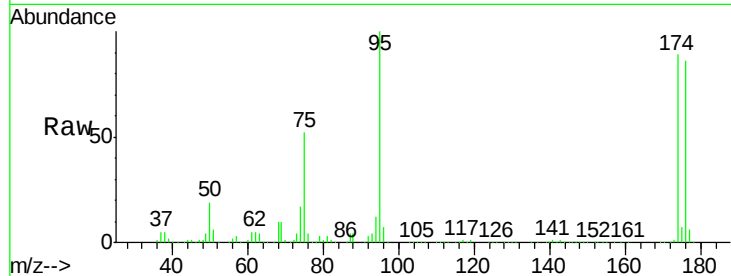
Tot Ion: 95 Resp: 186167

Ion Ratio Lower Upper

95 100

174 97.9 0.0 198.4

176 94.3 0.0 192.0



Abundance Ion 94.90 (94.60 to 95.60): VX000996.D (-1725) (-)

Ion 173.80 (173.50 to 174.50): VX000996.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX000996.D (-1725) (-)

11.14

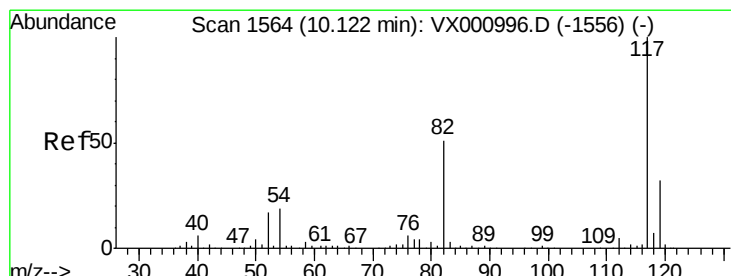
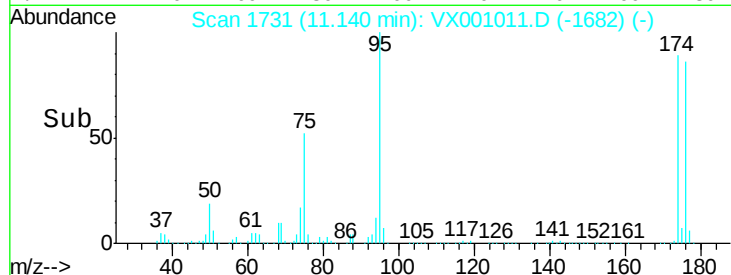
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

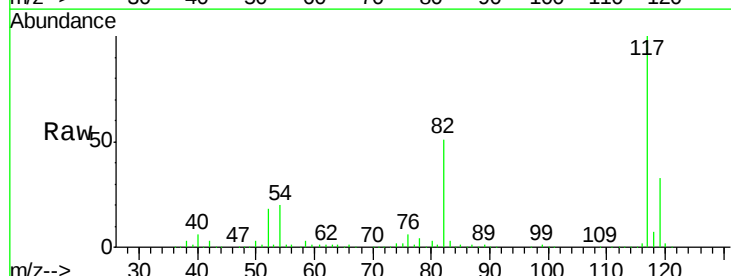
Tgt Ion: 117 Resp: 315289

Ion Ratio Lower Upper

117 100

82 50.8 40.6 60.8

119 32.5 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VX000996.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX000996.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX000996.D (-1556) (-)

10.12

300000

250000

200000

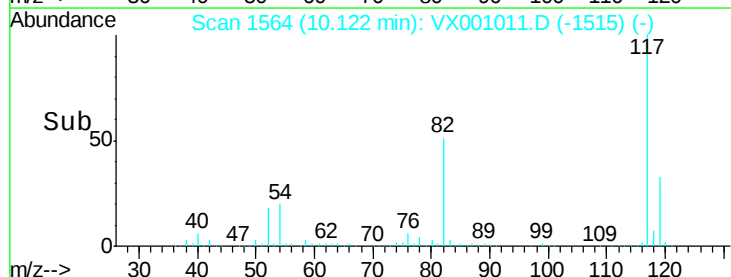
150000

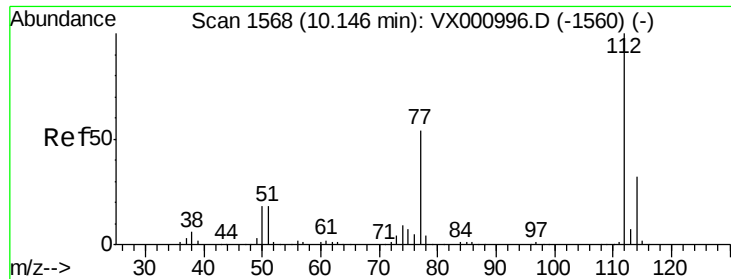
100000

50000

0

Time-->





#65

Chlorobenzene

Concen: 2.17 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

Instrument :

MSVOA_X

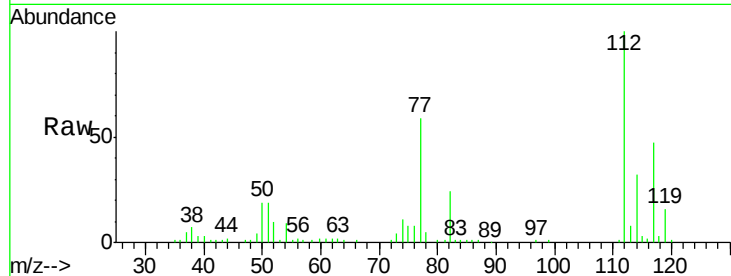
ClientSampleId :

Tot Ion:112 Resp: 18179

Ion Ratio Lower Upper

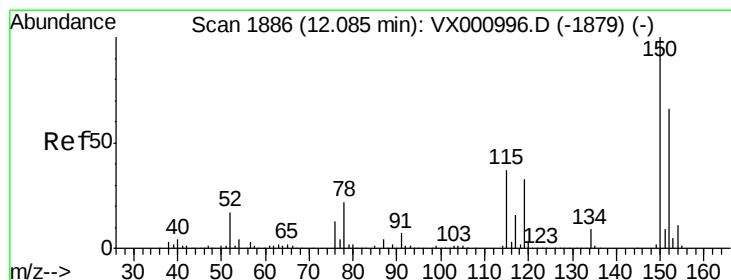
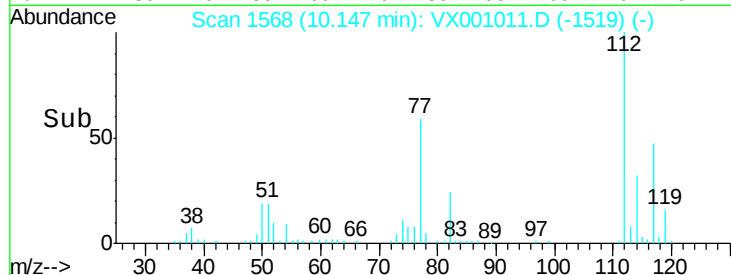
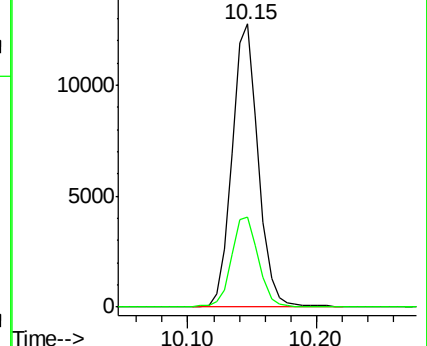
112 100

114 32.0 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

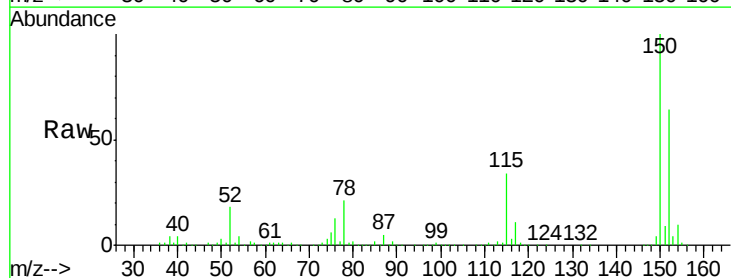
Tgt Ion:152 Resp: 209342

Ion Ratio Lower Upper

152 100

115 54.0 38.2 114.6

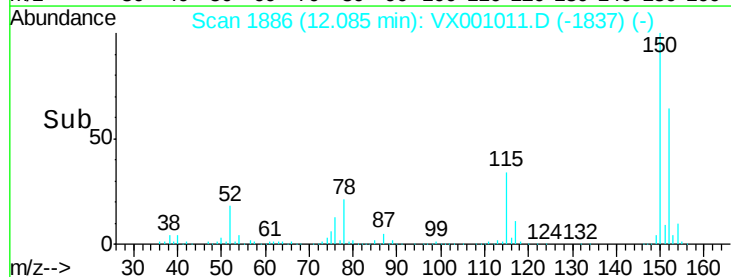
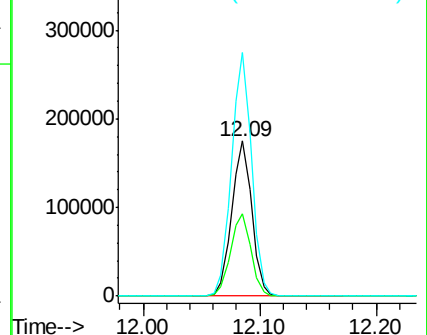
150 156.6 0.0 350.4

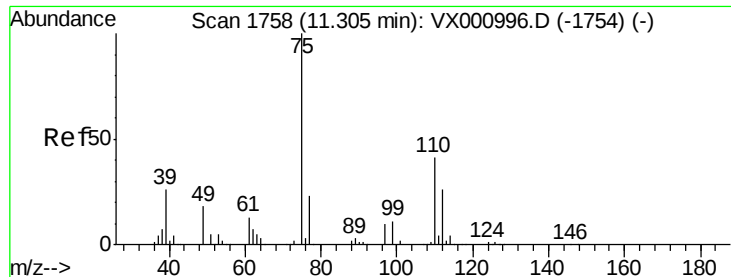


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.81 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

Instrument :

MSVOA_X

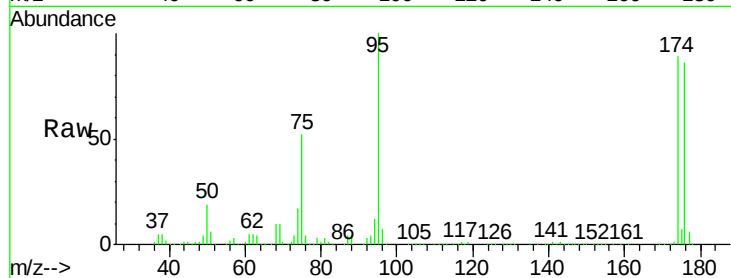
ClientSampleId :

Tot Ion: 75 Resp: 93732

Ion Ratio Lower Upper

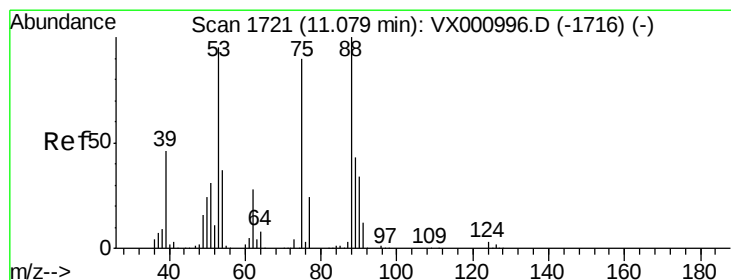
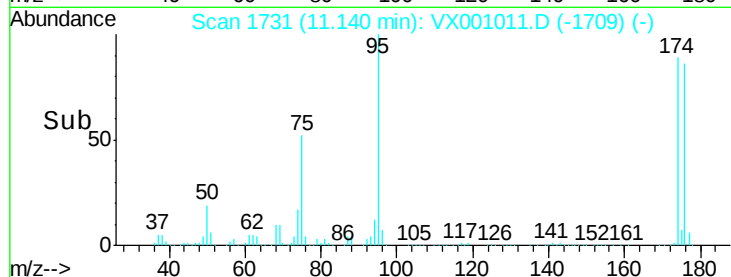
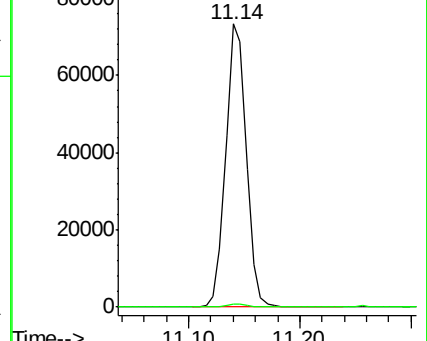
75 100

77 1.1 19.6 58.7#



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: 77.30 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

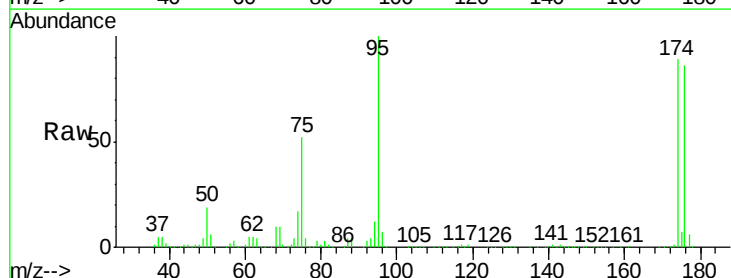
Tgt Ion: 75 Resp: 93732

Ion Ratio Lower Upper

75 100

53 0.0 83.4 125.2#

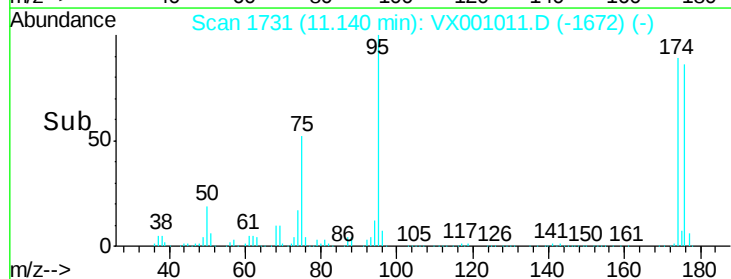
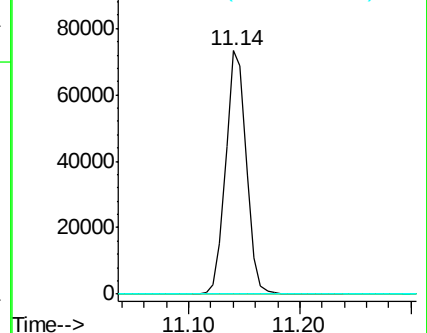
89 0.1 39.7 59.5#

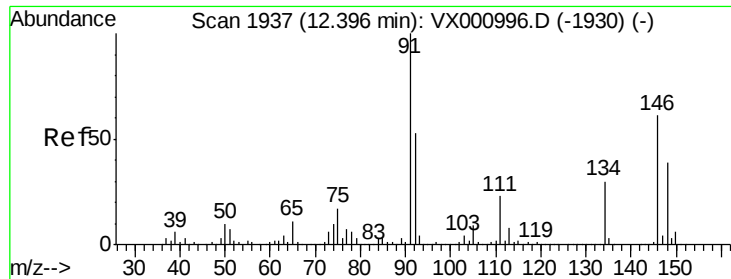


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

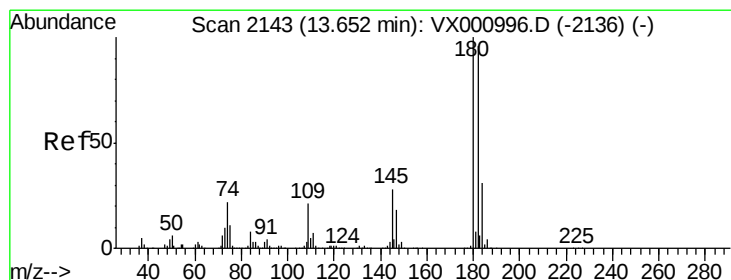
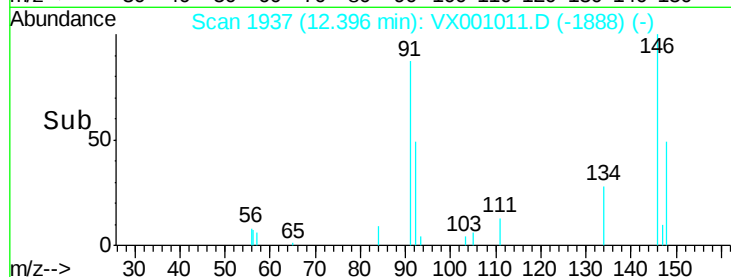
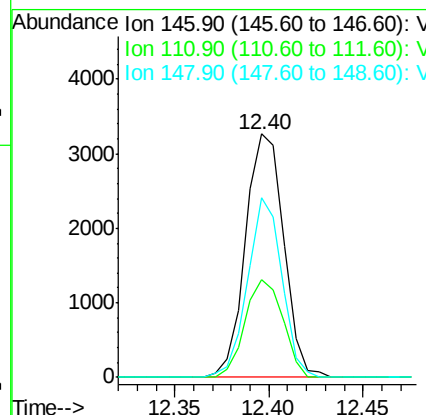
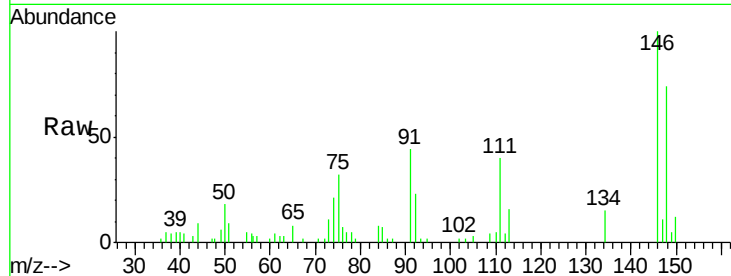




#91
 1,2-Dichlorobenzene
 Concen: 0.64 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VX001011.D
 Acq: 20 Apr 2018 16:17

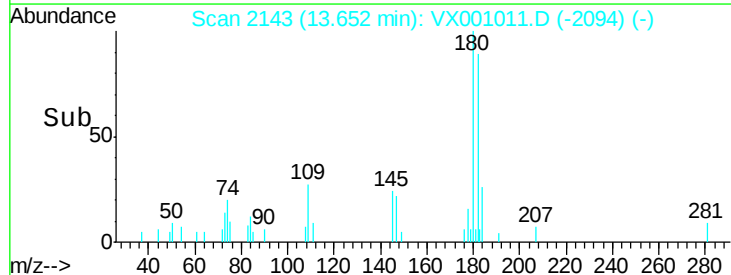
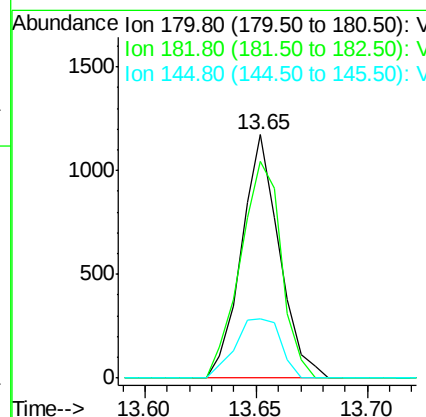
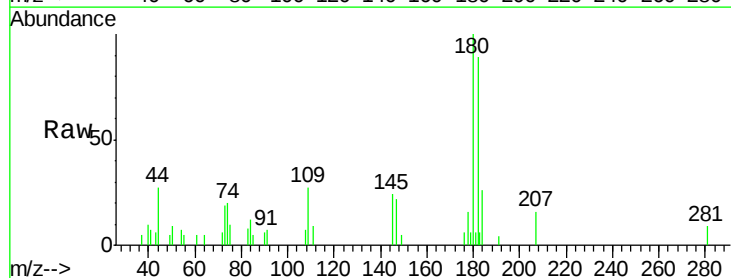
Instrument :
 MSVOA_X
 ClientSampleId :

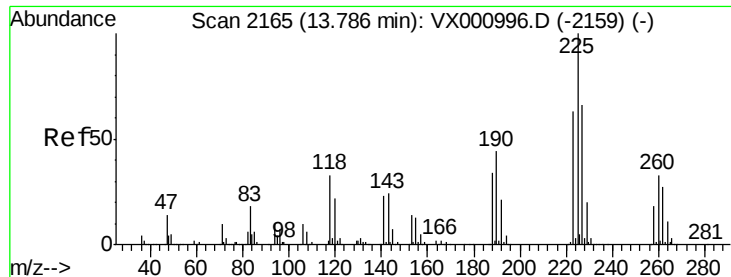
Tot Ion:146 Resp: 4594
 Ion Ratio Lower Upper
 146 100
 111 39.6 18.6 56.0
 148 66.0 32.3 96.8



#93
 1,2,4-Trichlorobenzene
 Concen: 0.23 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VX001011.D
 Acq: 20 Apr 2018 16:17

Tgt Ion:180 Resp: 1388
 Ion Ratio Lower Upper
 180 100
 182 96.5 48.0 144.0
 145 29.5 13.9 41.7





#94

Hexachlorobutadiene

Concen: 0.40 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX001011.D

Acq: 20 Apr 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

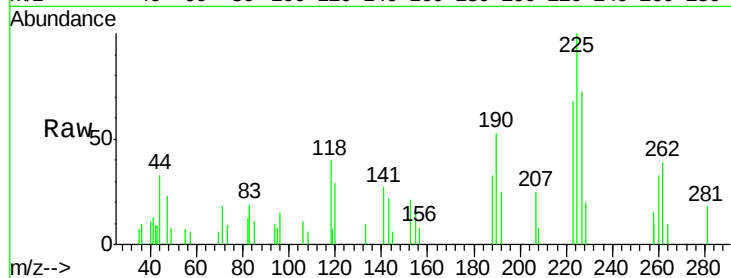
Tot Ion:225 Resp: 1082

Ion Ratio Lower Upper

225 100

223 67.1 31.5 94.5

227 72.6 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

