

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002765.D
 Acq On : 21 Jun 2018 02:32
 Operator : JC/MD
 Sample : PB110408ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 05:57:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	226848	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	320121	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	298346	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	167272	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	154789	44.90	ug/l	0.00
Spiked Amount			Recovery	=	89.80%	
35) Dibromofluoromethane	5.51	113	123813	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
50) Toluene-d8	8.72	98	458395	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
62) 4-Bromofluorobenzene	11.14	95	158124	43.02	ug/l	0.00
Spiked Amount			Recovery	=	86.04%	

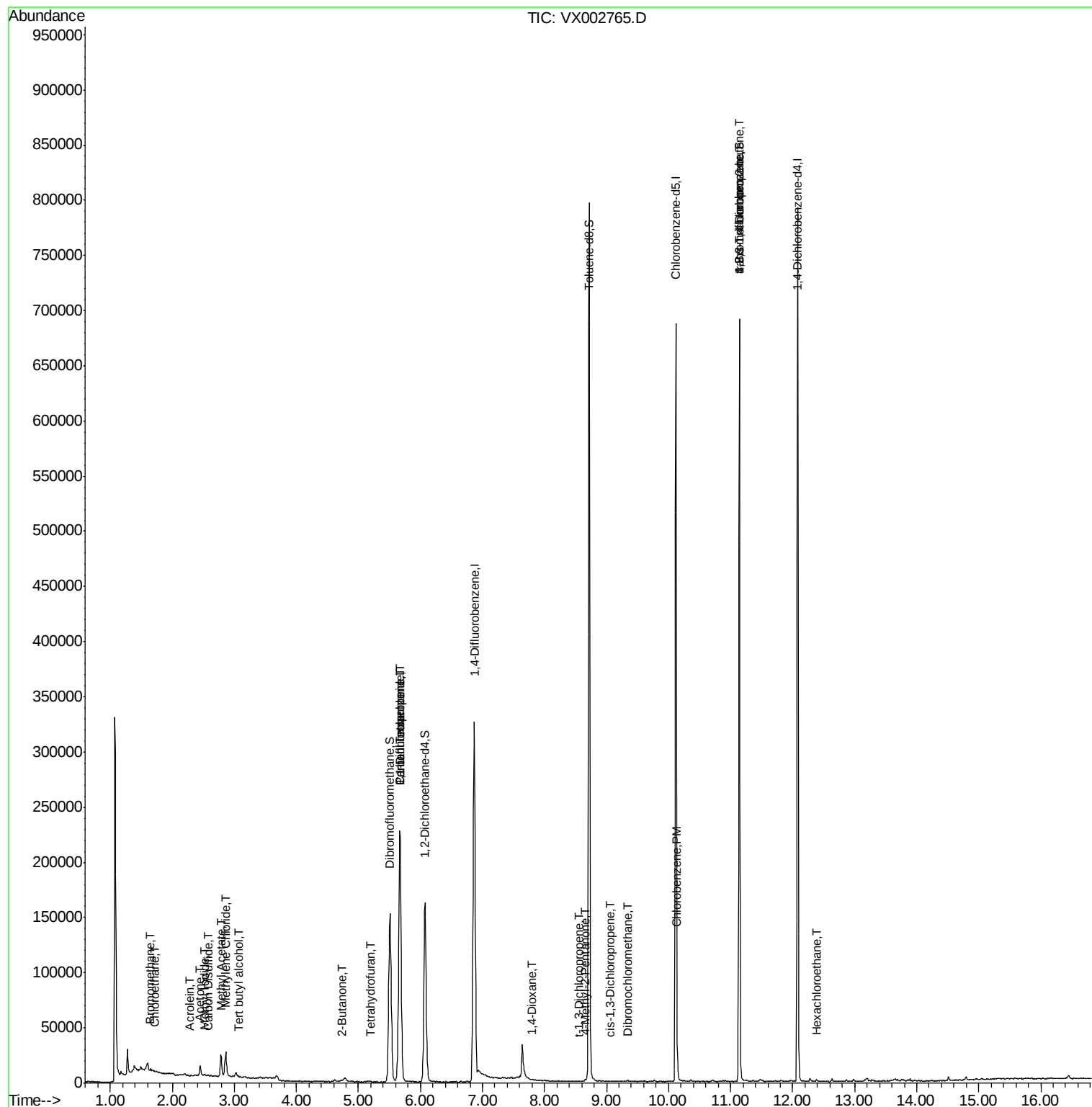
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1405	0.78	ug/l	85
6) Chloroethane	1.72	64	428	0.22	ug/l	# 59
10) Methyl Iodide	2.52	142	1746	5.61	ug/l	89
11) Tert butyl alcohol	3.07	59	359	0.50	ug/l	# 73
13) Acrolein	2.28	56	206	7.46	ug/l	# 59
16) Acetone	2.45	43	10444	6.87	ug/l	99
17) Carbon Disulfide	2.57	76	1647	0.27	ug/l	# 85
18) Methyl Acetate	2.78	43	23989	5.92	ug/l	98
20) Methylene Chloride	2.86	84	10548	3.38	ug/l	98
25) 2-Butanone	4.73	43	1906	0.95	ug/l	# 79
29) Tetrahydrofuran	5.19	42	1126	0.86	ug/l	# 54
36) 1,1-Dichloropropene	5.67	75	15941	4.69	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	20538	6.07	ug/l	# 16
49) 1,4-Dioxane	7.79	88	21	0.34	ug/l	# 22
51) 4-Methyl-2-Pentanone	8.65	43	1211	0.30	ug/l	88
53) t-1,3-Dichloropropene	8.55	75	29	2.40	ug/l	# 43
54) cis-1,3-Dichloropropene	9.05	75	22	3.22	ug/l	# 8
60) Dibromochloromethane	9.34	129	150	3.81	ug/l	# 11
65) Chlorobenzene	10.14	112	3768	0.51	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	84216	26.68	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	84216	82.41	ug/l	# 7
90) Hexachloroethane	12.38	117	71	2.67	ug/l	# 1

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

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

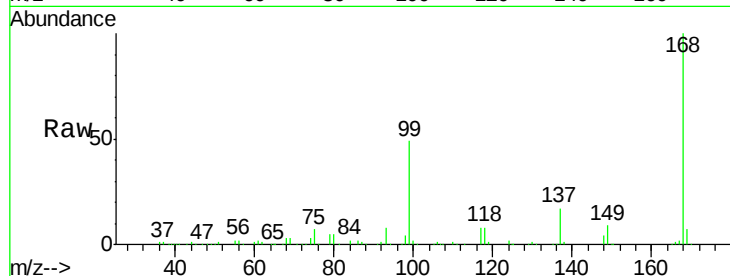
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 226848

Ion Ratio Lower Upper

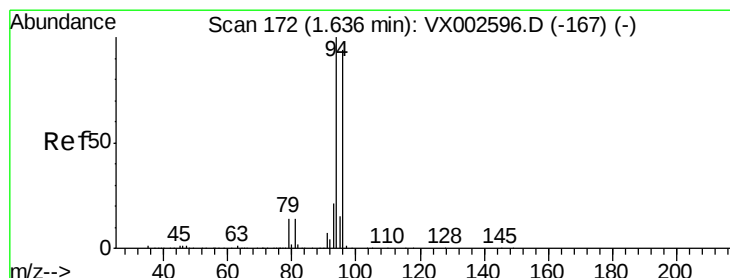
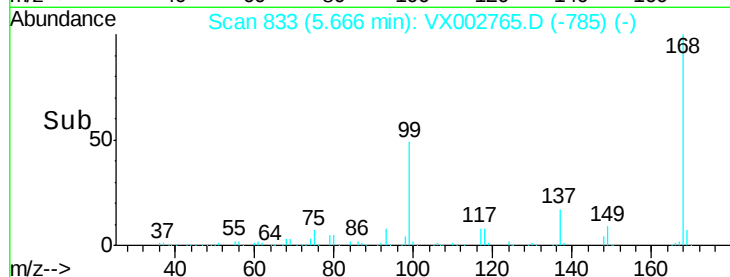
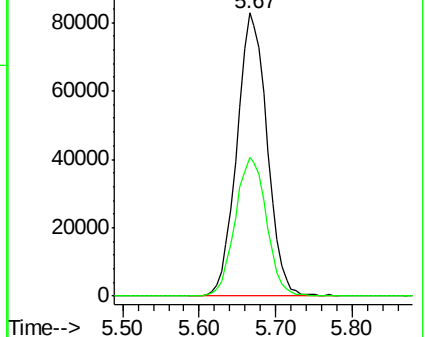
168 100

99 48.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.78 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002765.D

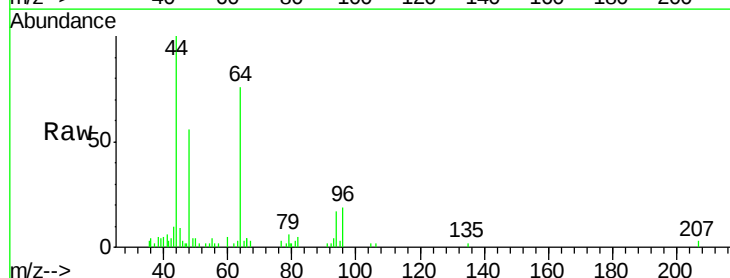
Acq: 21 Jun 2018 02:32

Tgt Ion: 94 Resp: 1405

Ion Ratio Lower Upper

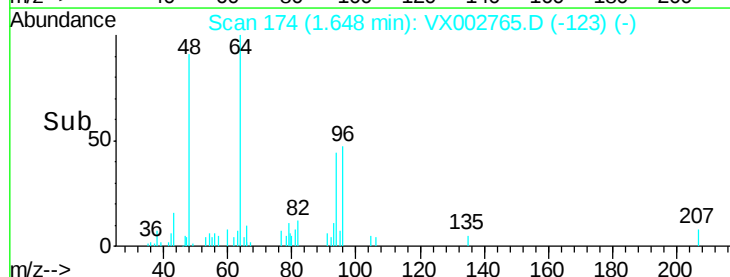
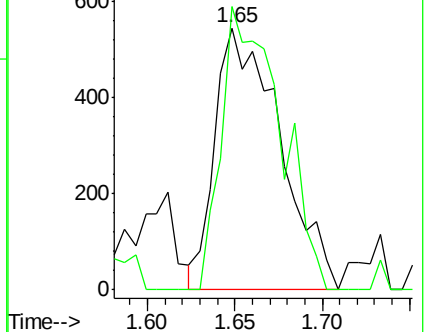
94 100

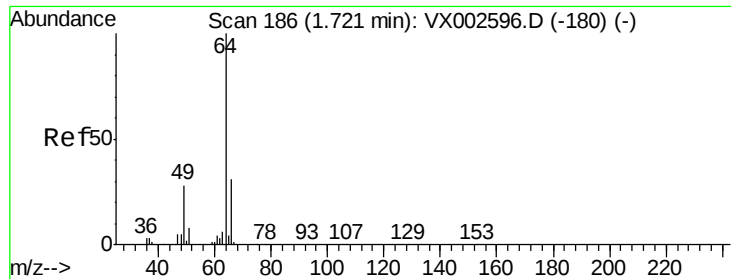
96 108.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.22 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :

MSVOA_X

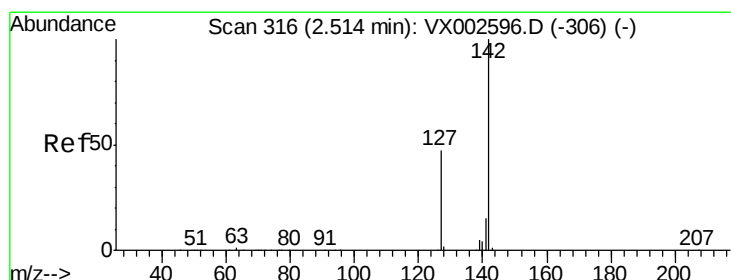
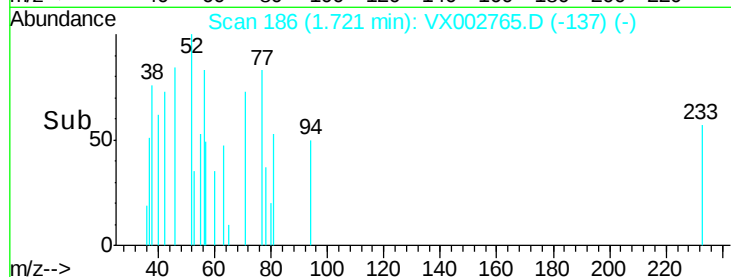
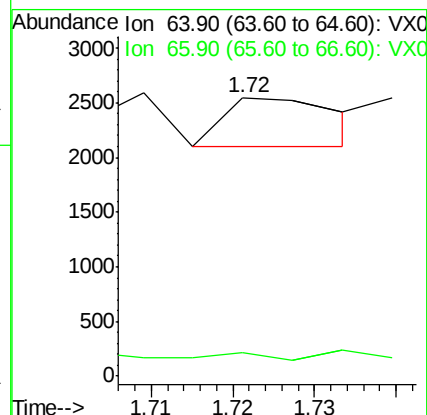
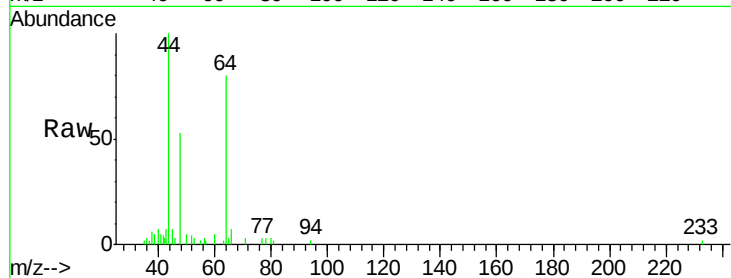
ClientSampled :

Tot Ion: 64 Resp: 428

Ion Ratio Lower Upper

64 100

66 9.2 25.5 38.3#



#10

Methyl Iodide

Concen: 5.61 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

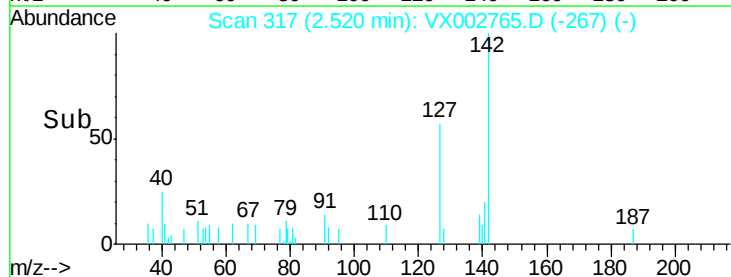
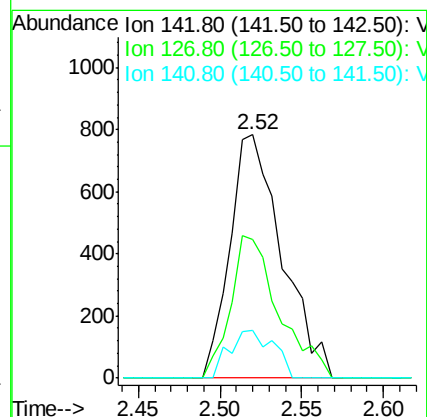
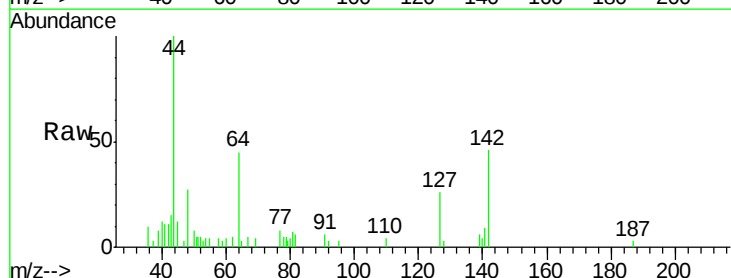
Tgt Ion:142 Resp: 1746

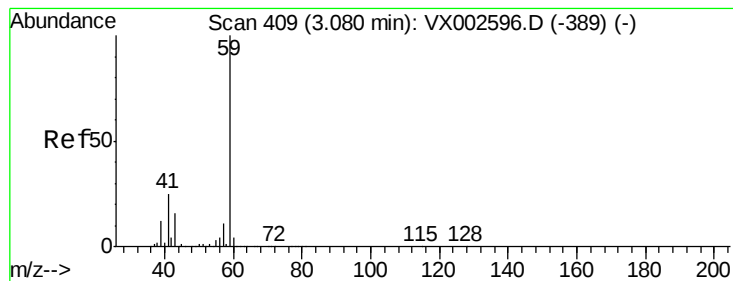
Ion Ratio Lower Upper

142 100

127 53.8 36.6 55.0

141 16.6 11.3 16.9



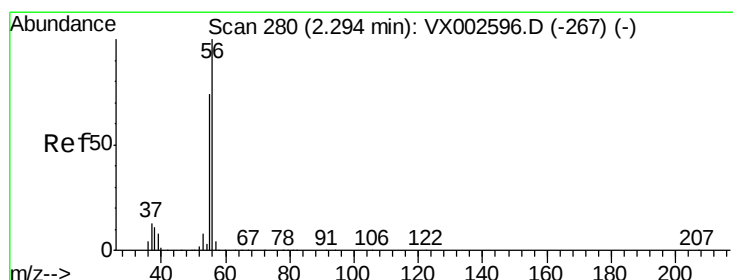
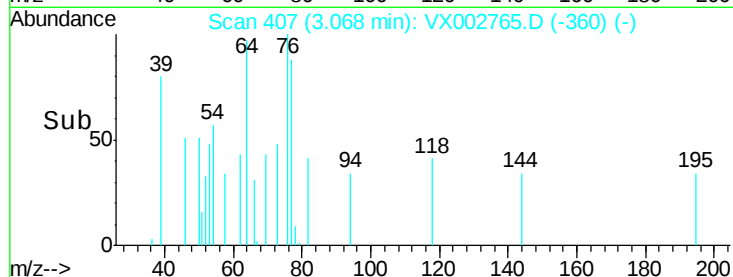
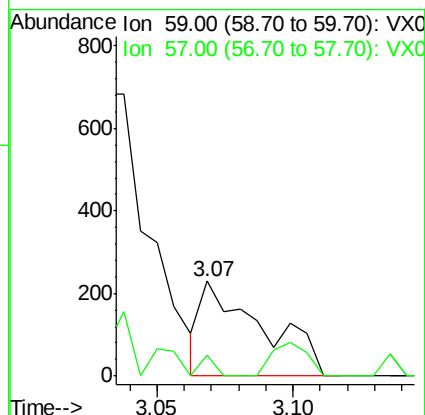
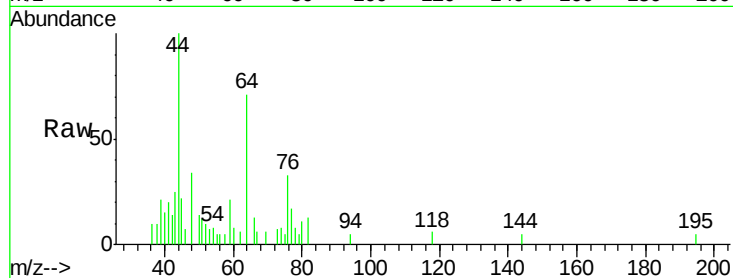


#11

Tert butyl alcohol
Concen: 0.50 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002765.D
Acq: 21 Jun 2018 02:32

Instrument :
MSVOA_X
ClientSampleId :

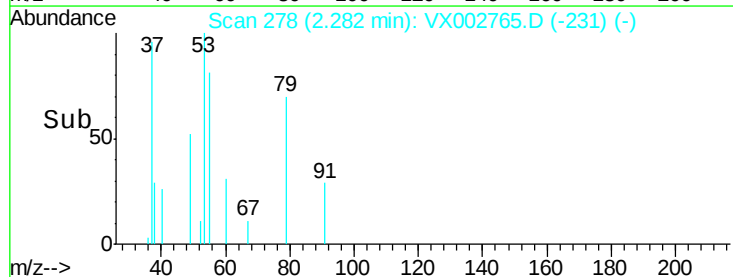
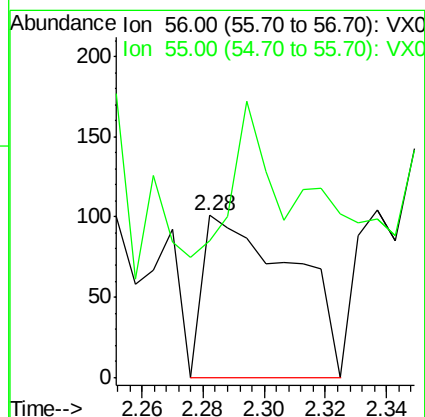
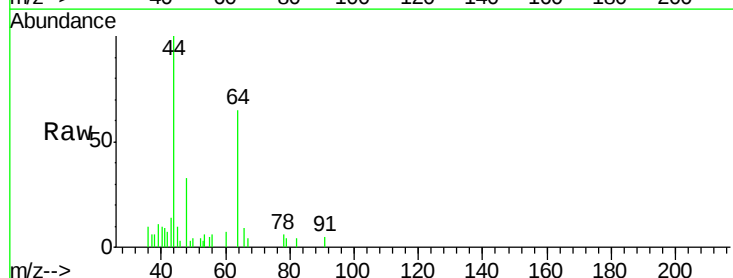
Tot Ion: 59 Resp: 359
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

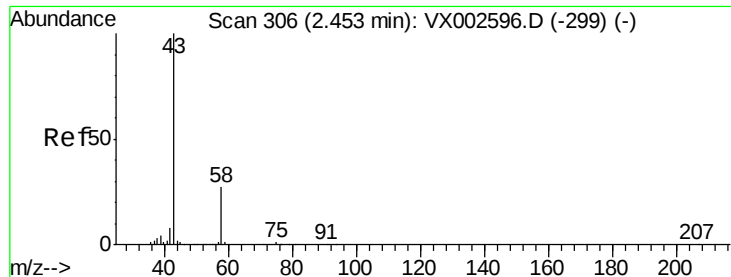


#13

Acrolein
Concen: 7.46 ug/l
RT: 2.28 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX002765.D
Acq: 21 Jun 2018 02:32

Tgt Ion: 56 Resp: 206
Ion Ratio Lower Upper
56 100
55 36.9 57.0 85.4#





#16

Acetone

Concen: 6.87 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :

MSVOA_X

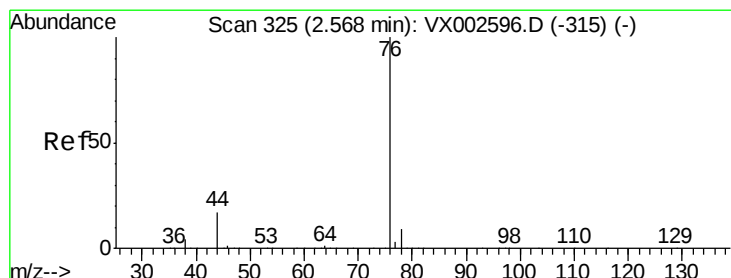
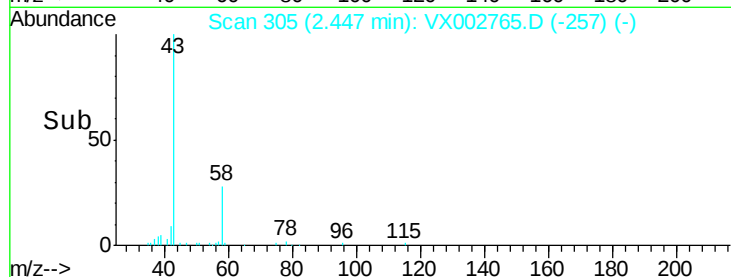
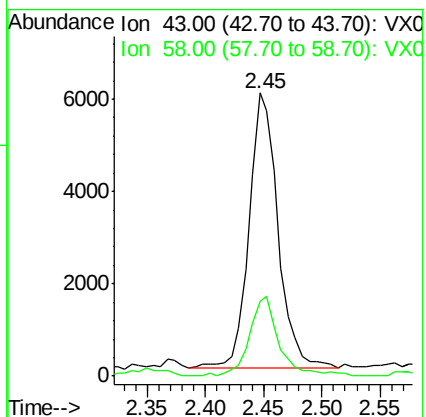
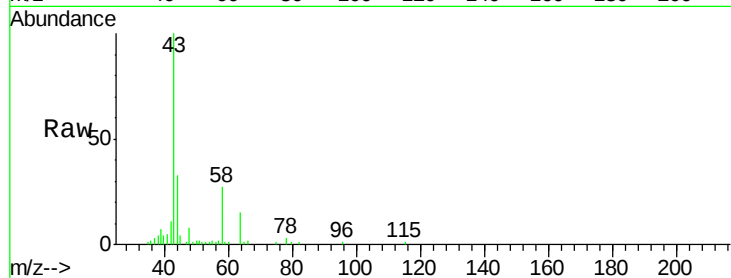
ClientSampleId :

Tot Ion: 43 Resp: 10444

Ion Ratio Lower Upper

43 100

58 27.3 22.1 33.1



#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002765.D

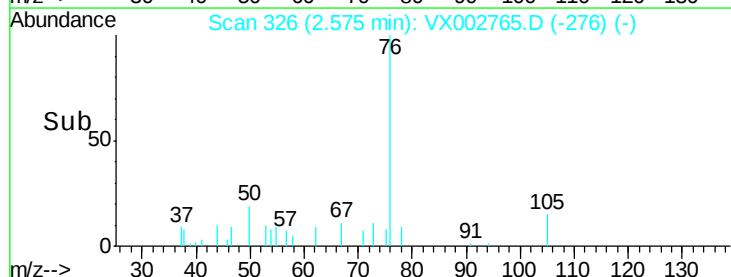
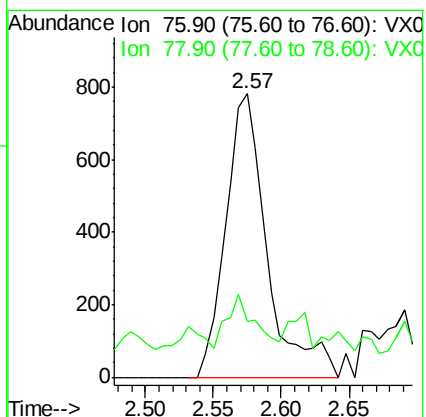
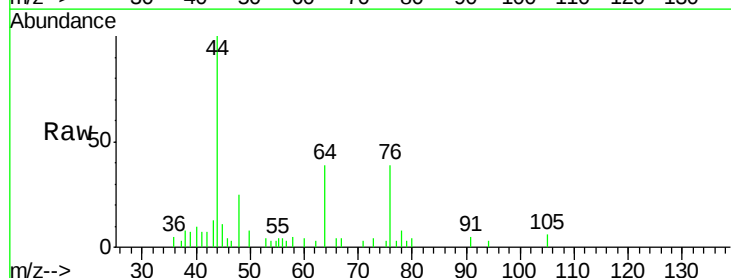
Acq: 21 Jun 2018 02:32

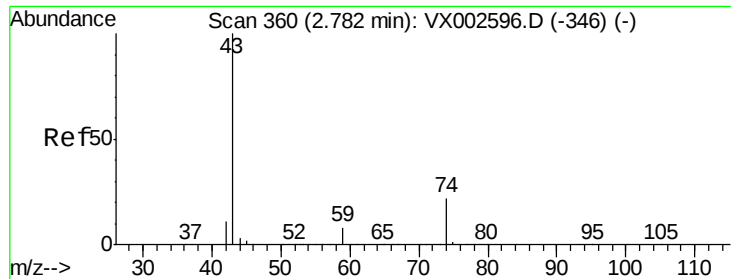
Tgt Ion: 76 Resp: 1647

Ion Ratio Lower Upper

76 100

78 3.3 6.9 10.3#

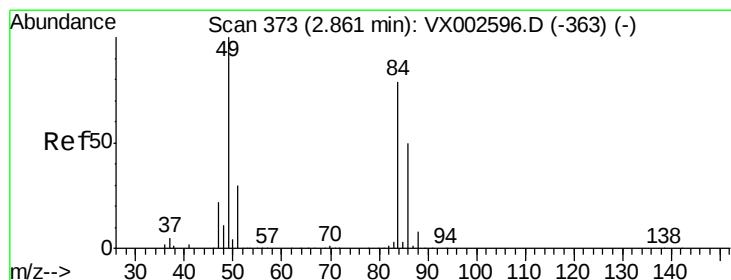
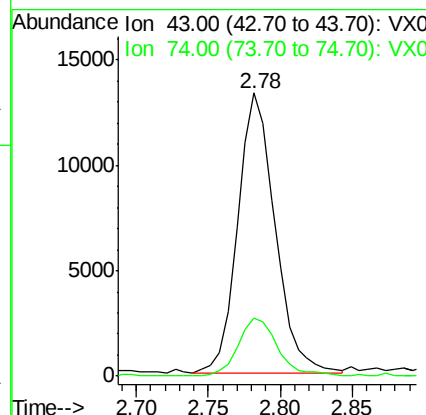
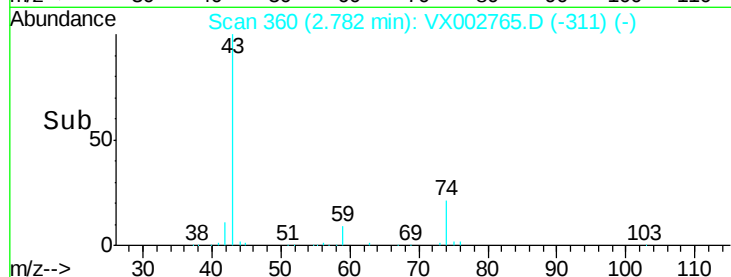
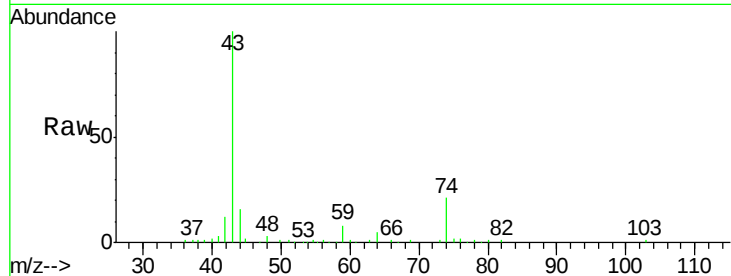




#18
Methvl Acetate
Concen: 5.92 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002765.D
Acq: 21 Jun 2018 02:32

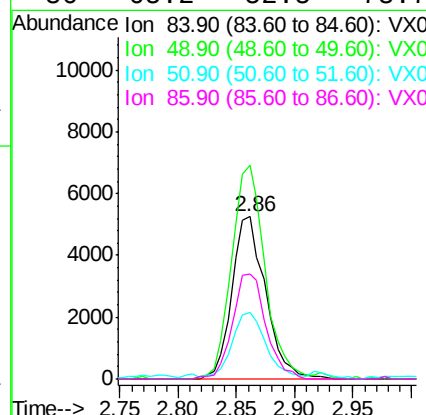
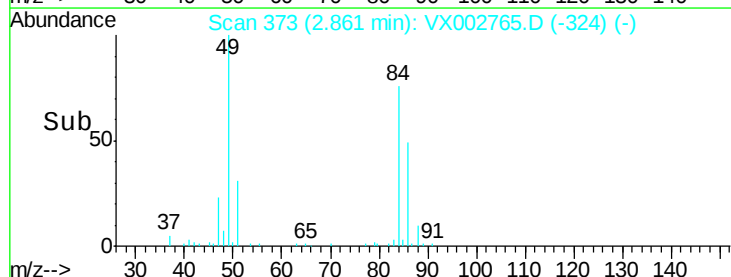
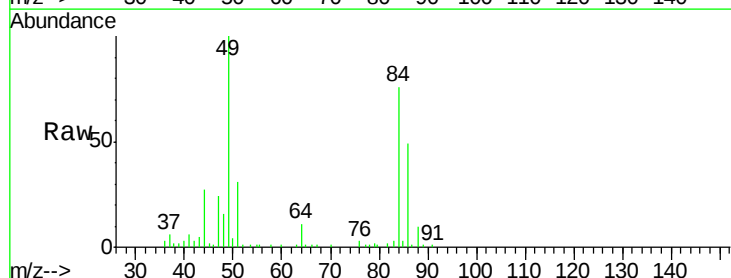
Instrument :
MSVOA_X
ClientSampleId :

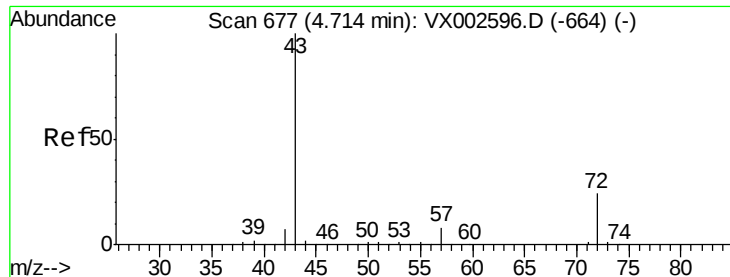
Tot Ion: 43 Resp: 23989
Ion Ratio Lower Upper
43 100
74 22.0 16.7 25.1



#20
Methylene Chloride
Concen: 3.38 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002765.D
Acq: 21 Jun 2018 02:32

Tgt Ion: 84 Resp: 10548
Ion Ratio Lower Upper
84 100
49 131.8 107.8 161.6
51 39.9 32.8 49.2
86 65.2 52.5 78.7





#25

2-Butanone

Concen: 0.95 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :

MSVOA_X

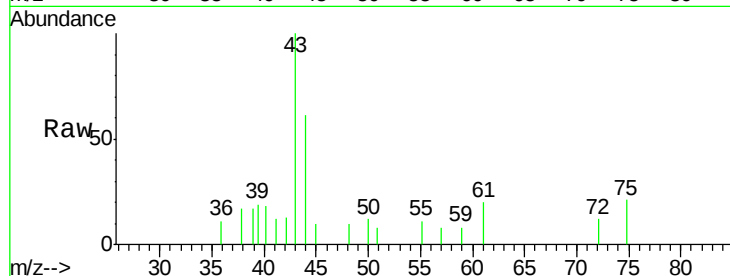
ClientSampled :

Tot Ion: 43 Resp: 1906

Ion Ratio Lower Upper

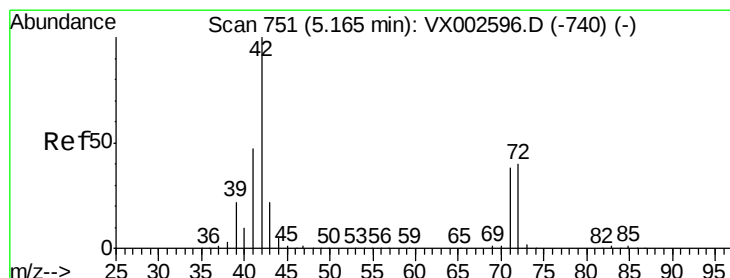
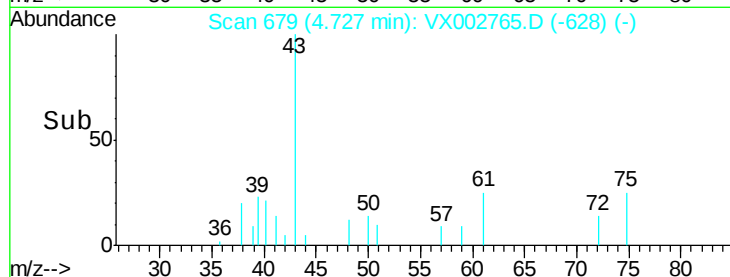
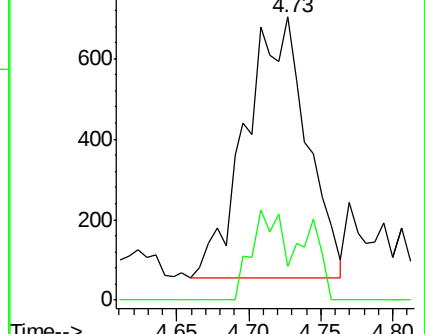
43 100

72 12.8 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.86 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

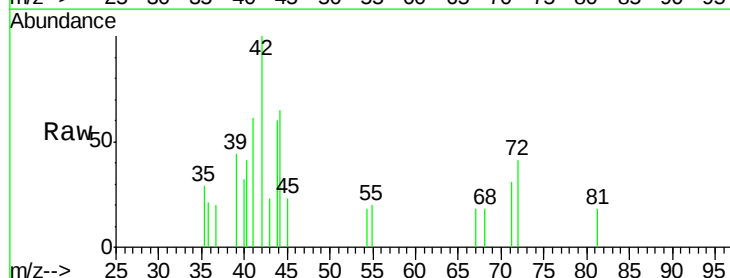
Tgt Ion: 42 Resp: 1126

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

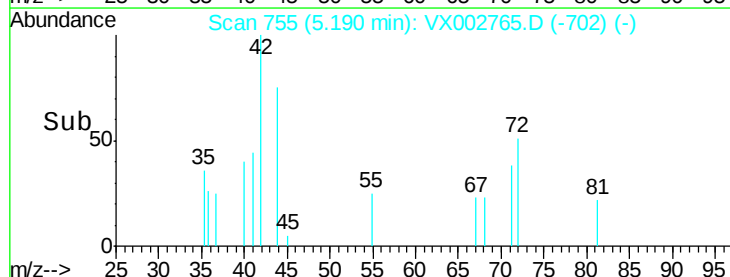
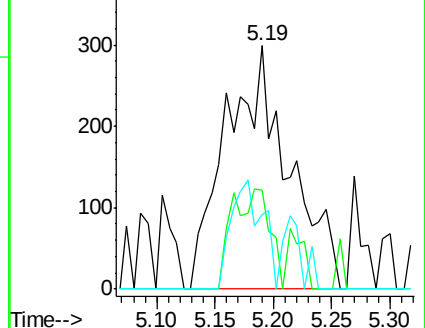
71 22.3 30.1 45.1#

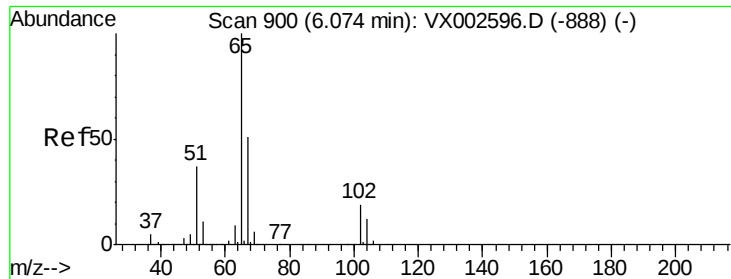


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 44.90 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :

MSVOA_X

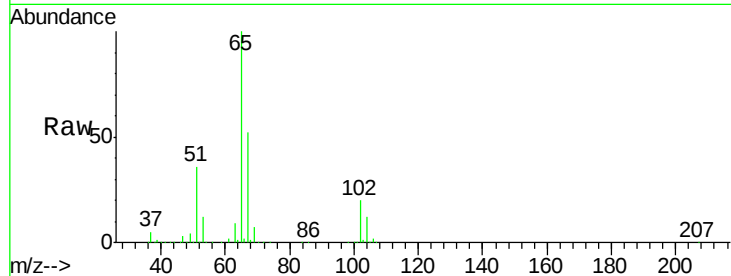
ClientSampleId :

Tot Ion: 65 Resp: 154789

Ion Ratio Lower Upper

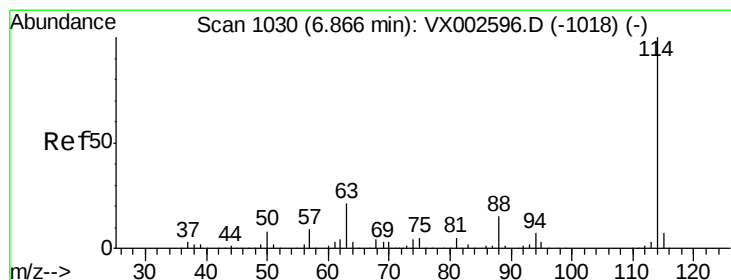
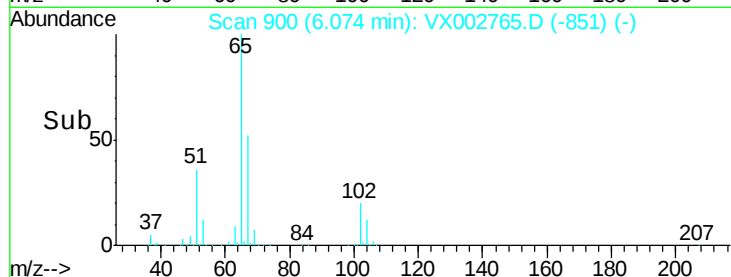
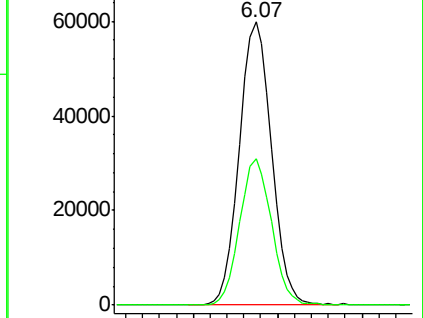
65 100

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# 1030

Delta R.T. 0.00 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

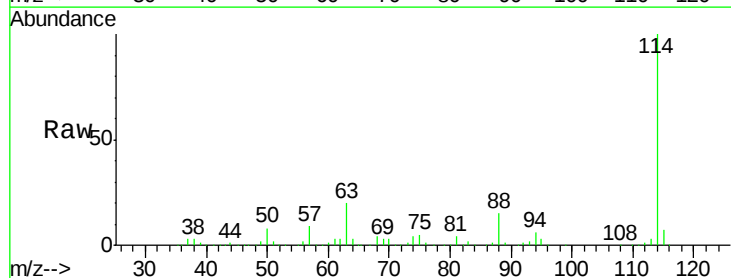
Tgt Ion: 114 Resp: 320121

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

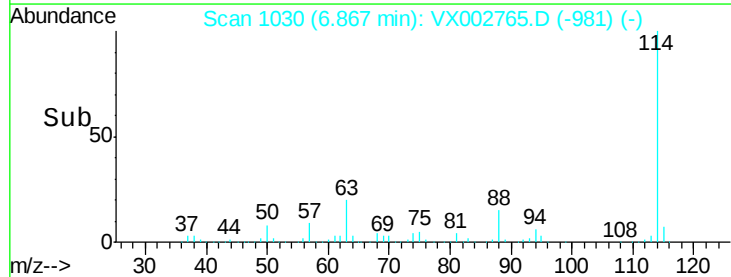
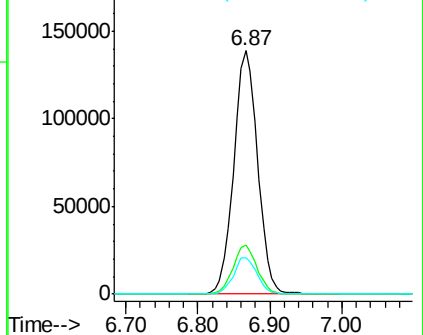
88 15.0 0.0 30.0

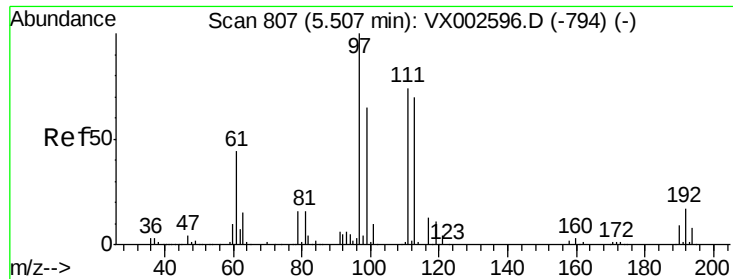


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.46 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :
MSVOA_X
ClientSampleId :

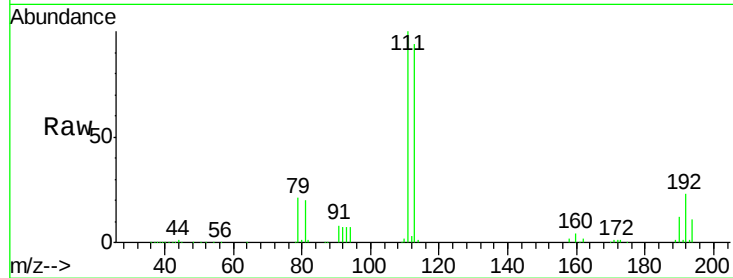
Tot Ion:113 Resp: 123813

Ion Ratio Lower Upper

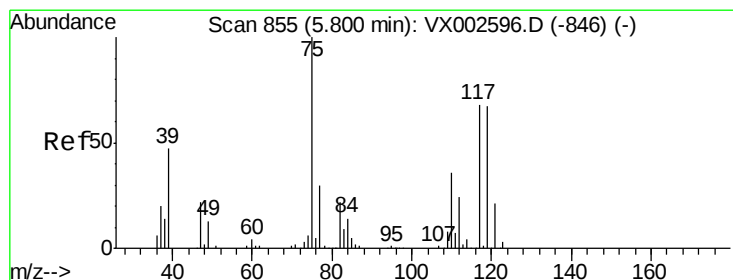
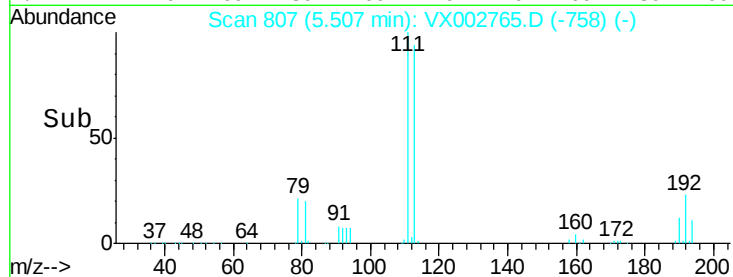
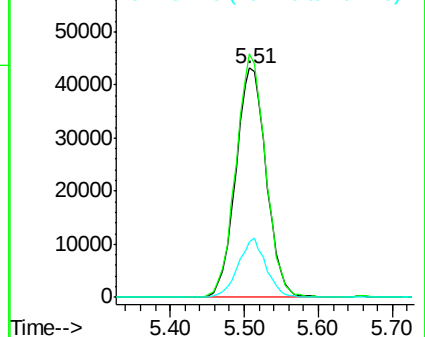
113 100

111 103.5 81.4 122.0

192 23.6 19.1 28.7



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: 4.69 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

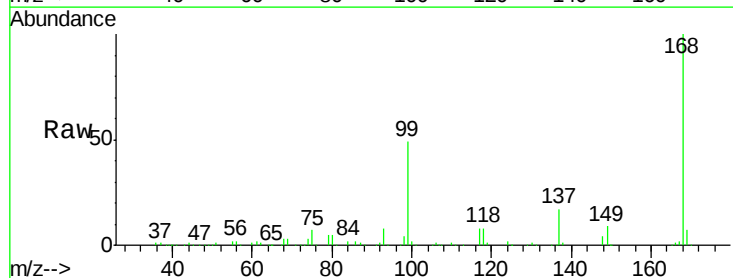
Tgt Ion: 75 Resp: 15941

Ion Ratio Lower Upper

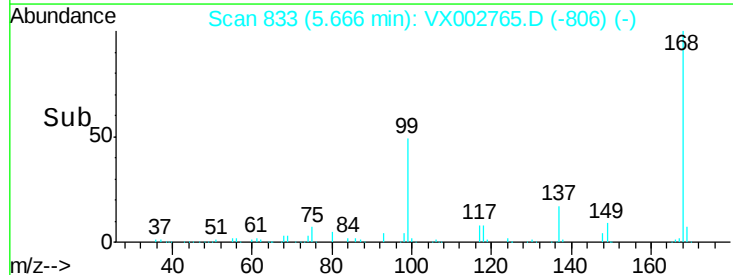
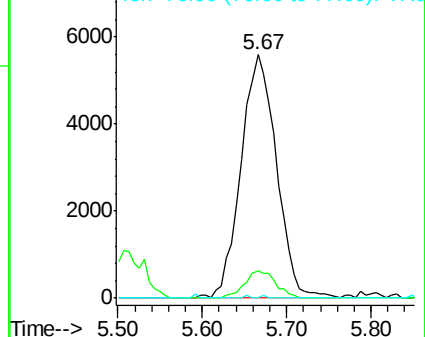
75 100

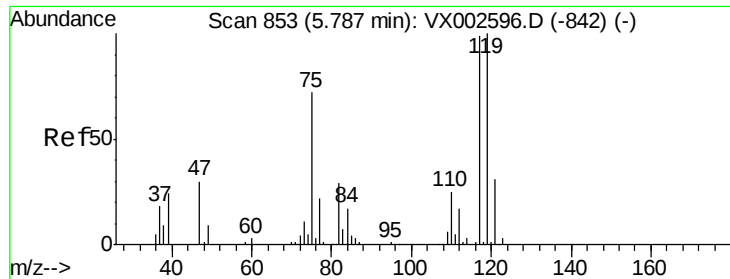
110 9.9 18.1 54.4#

77 0.1 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.07 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :
MSVOA_X
ClientSampled :

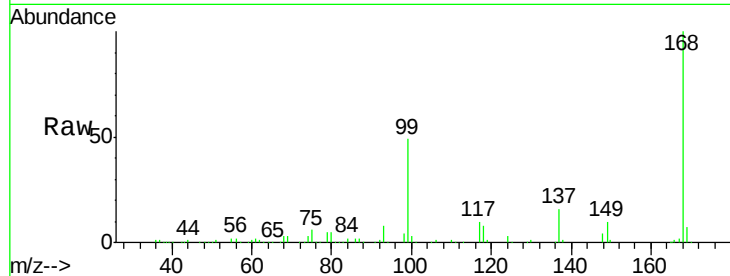
Tot Ion:117 Resp: 20538

Ion Ratio Lower Upper

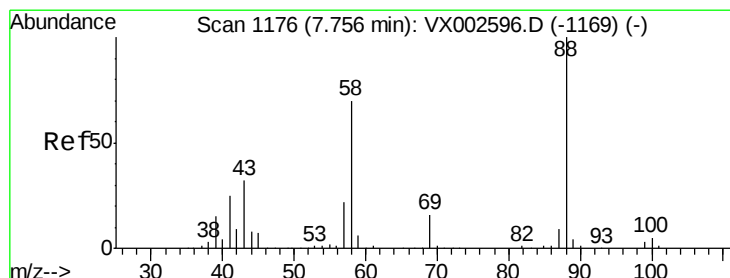
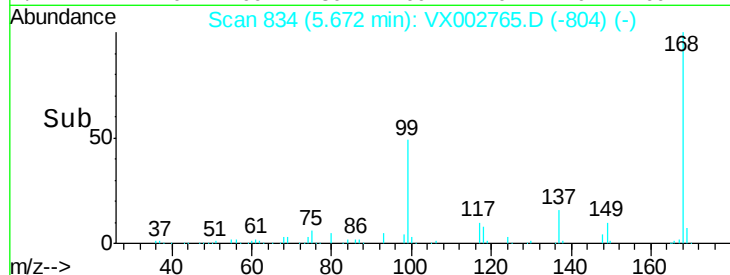
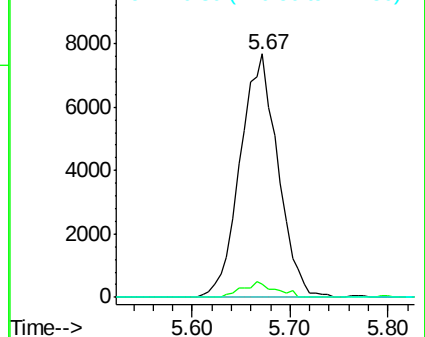
117 100

119 5.5 77.4 116.0#

121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.34 ug/l

RT: 7.79 min Scan# 1182

Delta R.T. 0.04 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

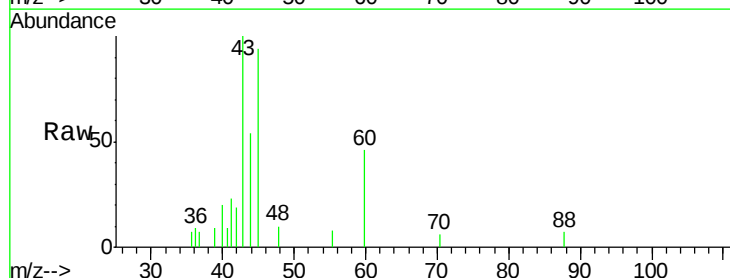
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

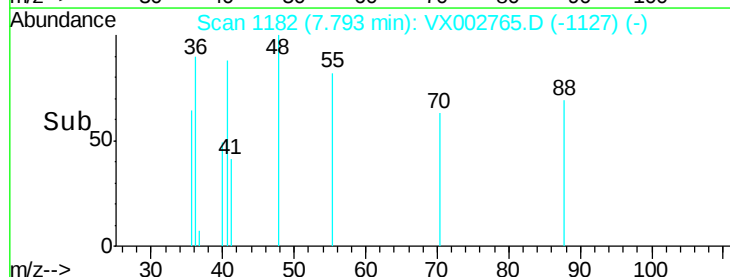
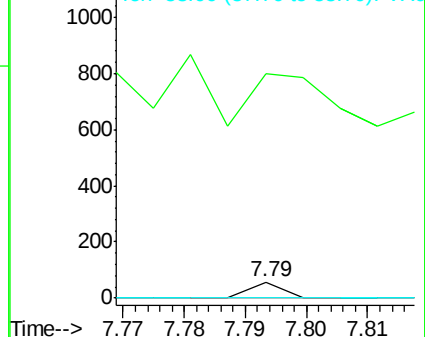
88 100

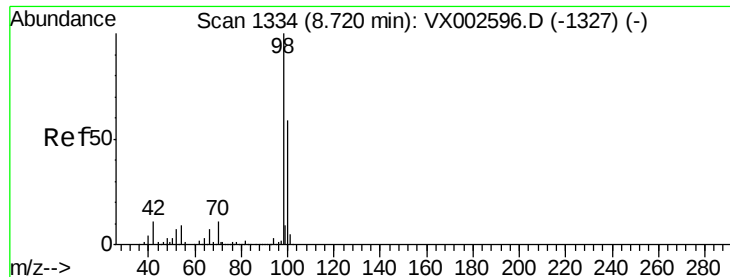
43 0.0 29.8 44.6#

58 0.0 57.1 85.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

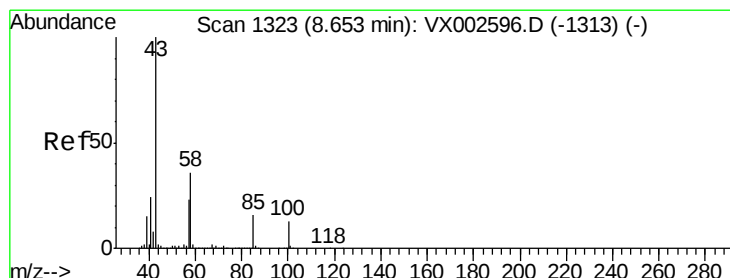
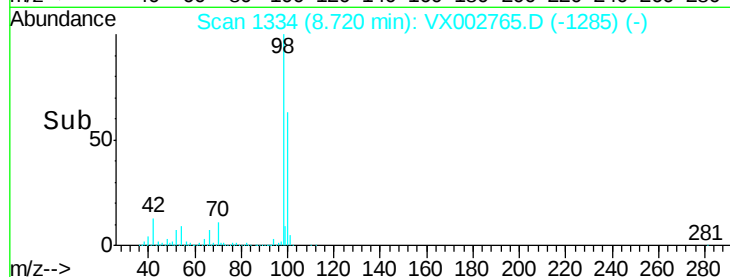
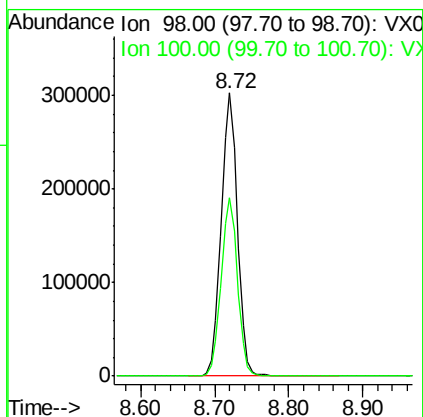
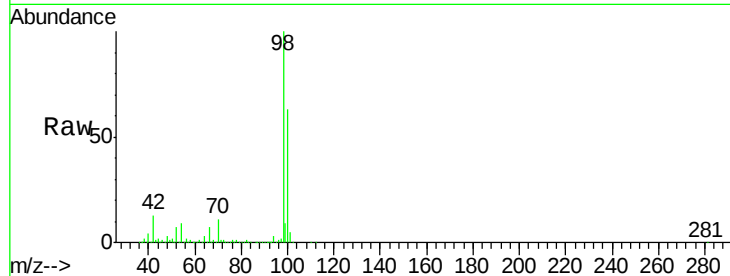




#50
Toluene-d8
Concen: 47.25 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002765.D
Acq: 21 Jun 2018 02:32

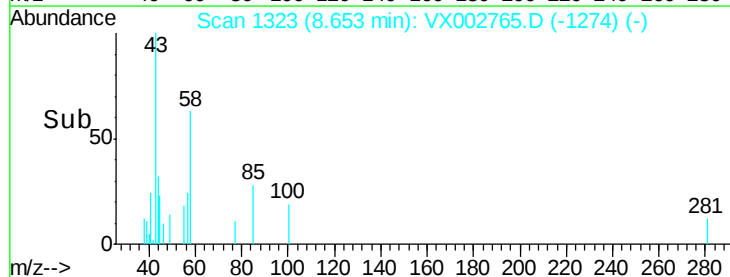
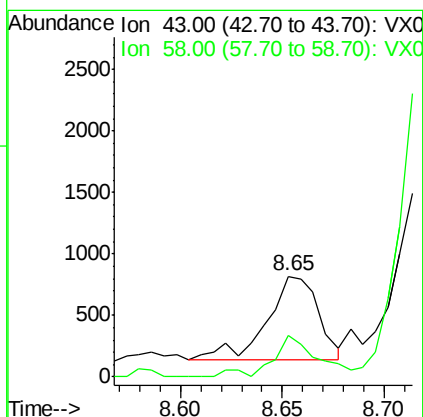
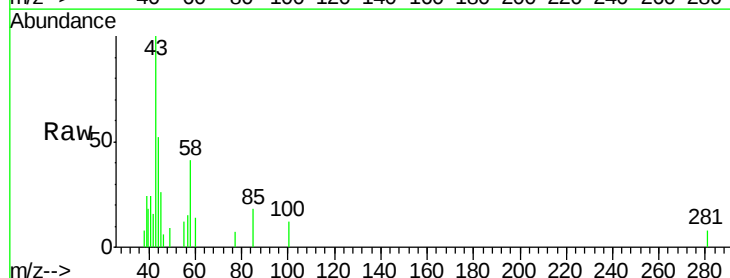
Instrument :
MSVOA_X
ClientSampleId :

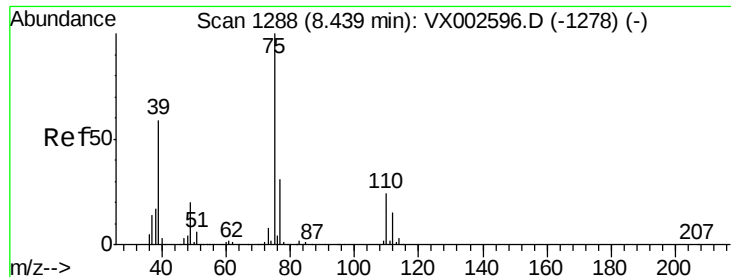
Tot Ion: 98 Resp: 458395
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.30 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VX002765.D
Acq: 21 Jun 2018 02:32

Tgt Ion: 43 Resp: 1211
Ion Ratio Lower Upper
43 100
58 42.6 28.6 42.8





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.55 min Scan# 1306

Delta R.T. 0.11 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :

MSVOA_X

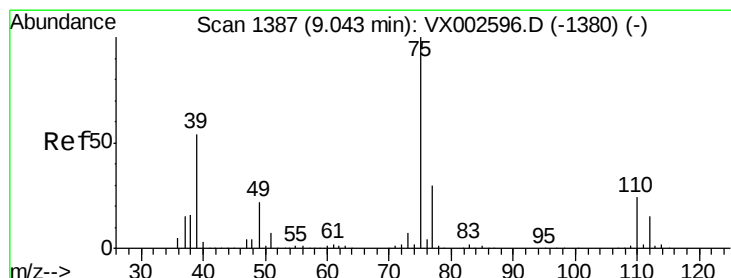
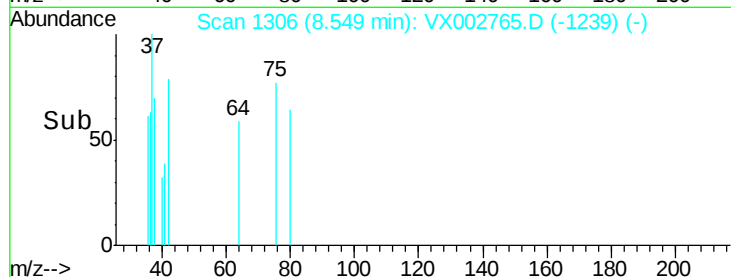
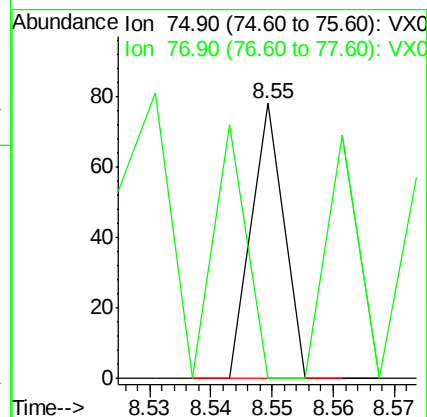
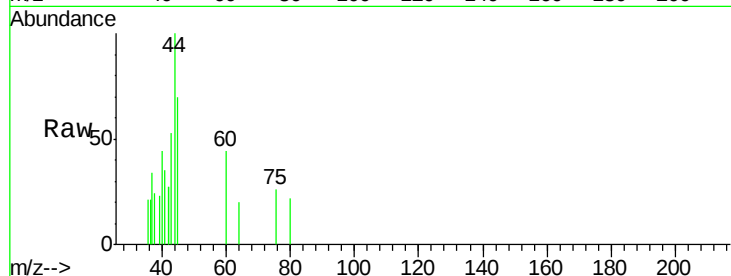
ClientSampleId :

Tot Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

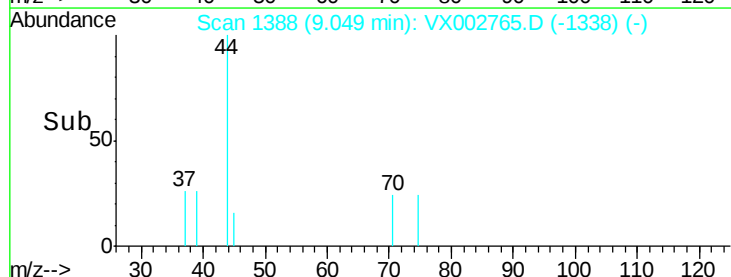
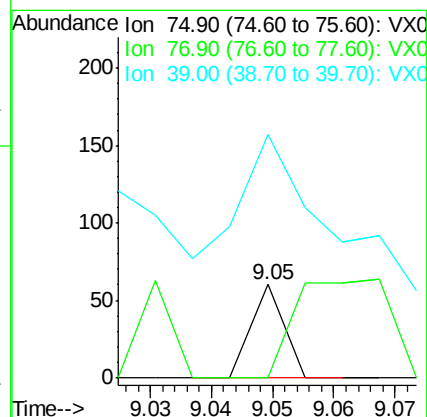
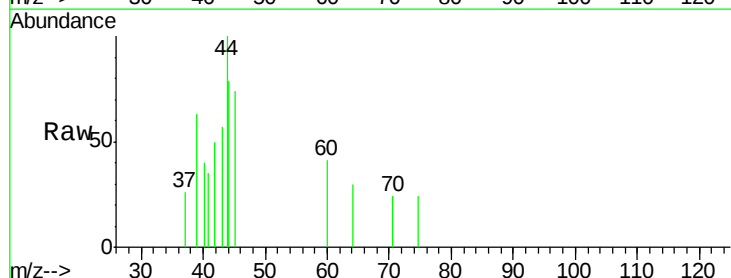
Tgt Ion: 75 Resp: 22

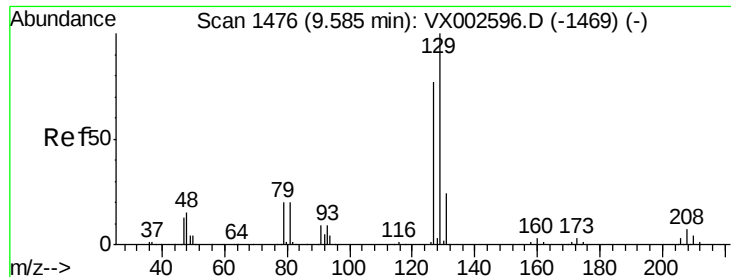
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 133.3 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.81 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :

MSVOA_X

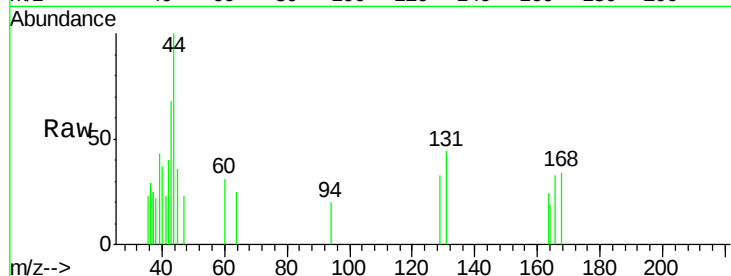
ClientSampleId :

Tot Ion:129 Resp: 150

Ion Ratio Lower Upper

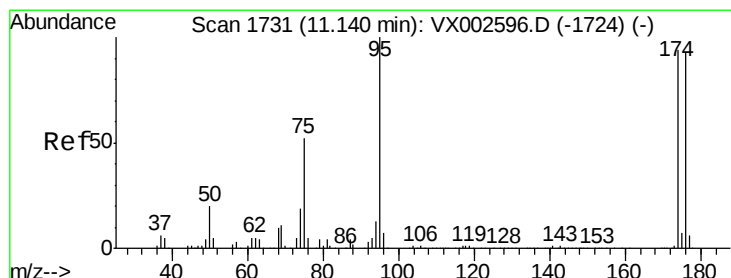
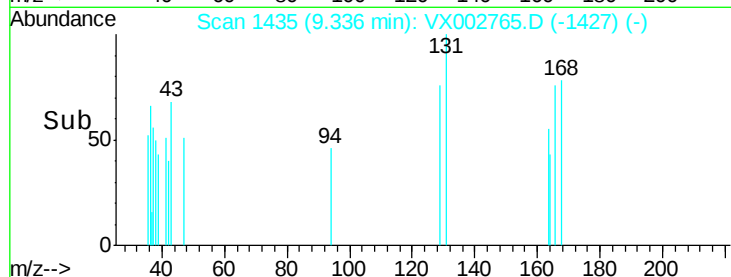
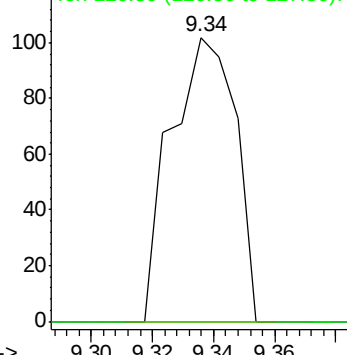
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.02 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

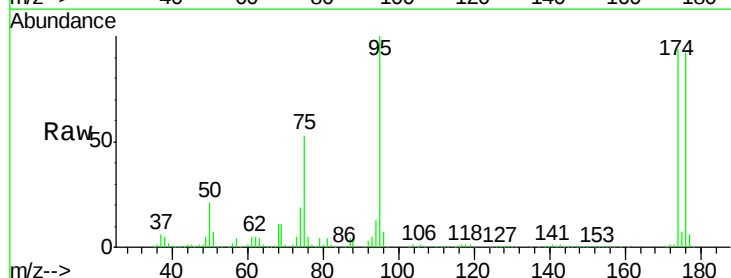
Tgt Ion: 95 Resp: 158124

Ion Ratio Lower Upper

95 100

174 97.0 0.0 187.4

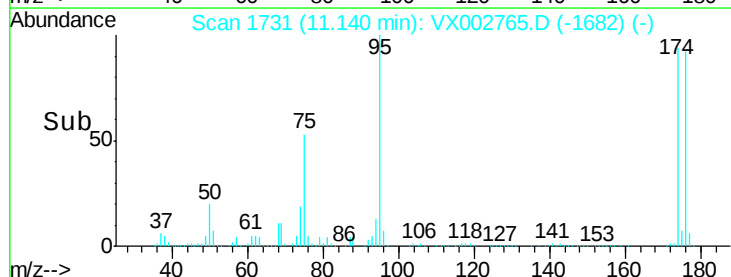
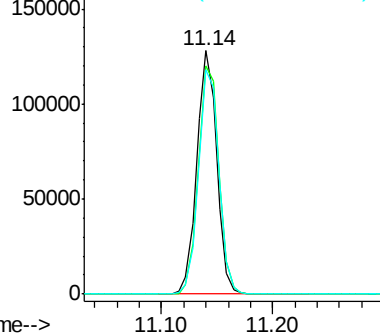
176 94.7 0.0 181.0

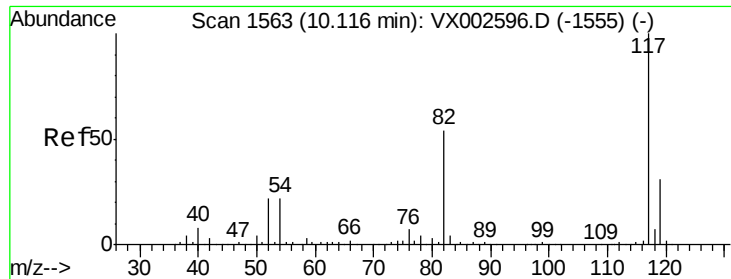


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

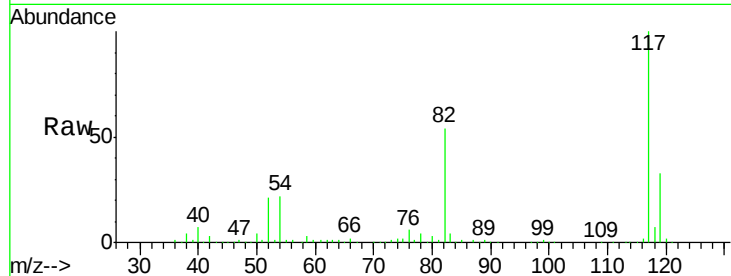




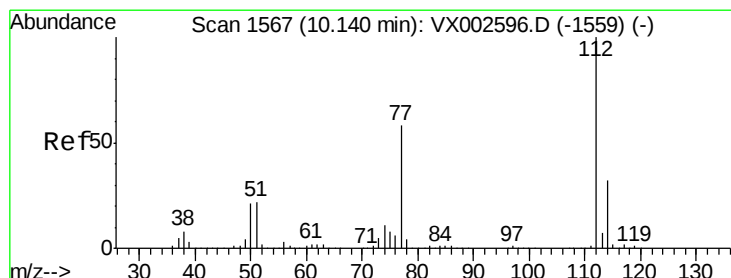
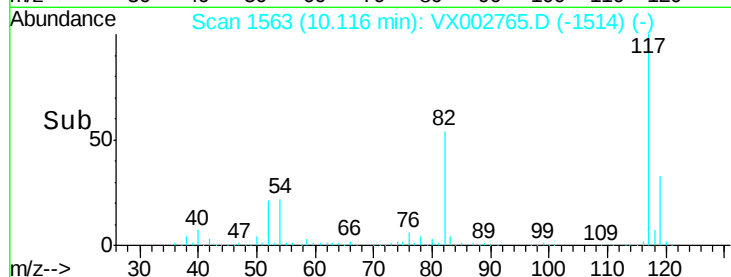
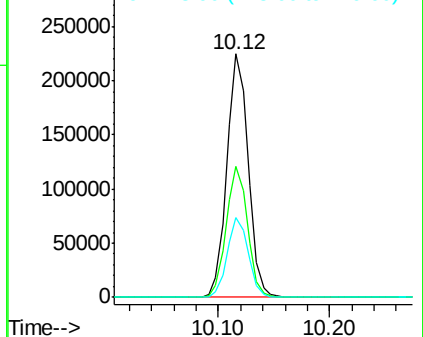
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002765.D
Acq: 21 Jun 2018 02:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 298346
Ion Ratio Lower Upper
117 100
82 53.8 45.0 67.4
119 32.9 25.8 38.6

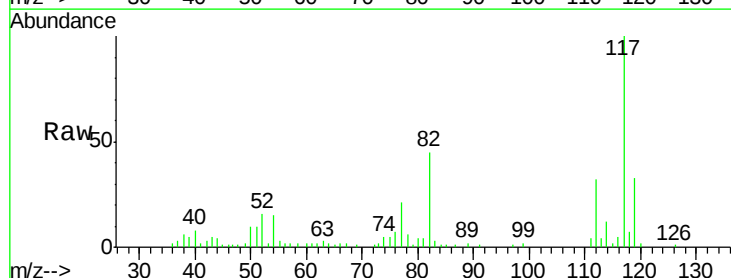


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

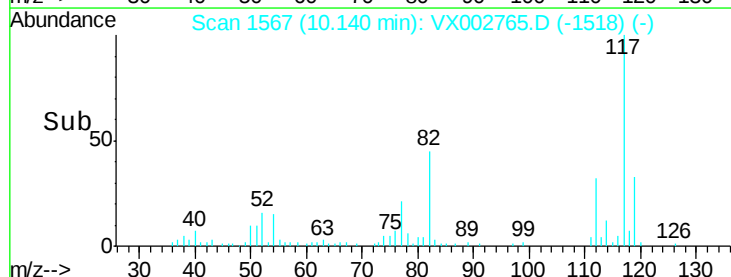
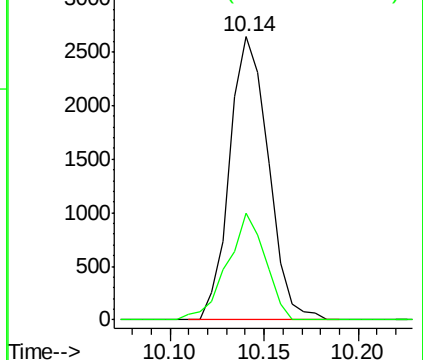


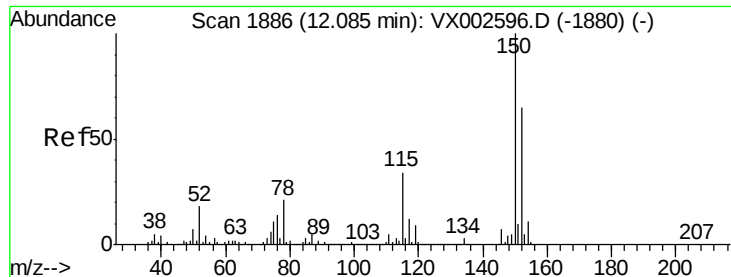
#65
Chlorobenzene
Concen: 0.51 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002765.D
Acq: 21 Jun 2018 02:32

Tgt Ion:112 Resp: 3768
Ion Ratio Lower Upper
112 100
114 37.8 25.3 37.9



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: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :

MSVOA_X

ClientSampled :

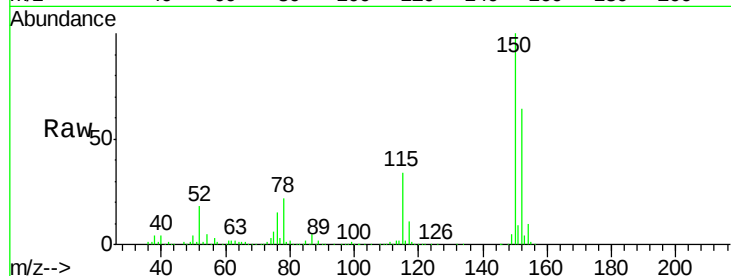
Tot Ion:152 Resp: 167272

Ion Ratio Lower Upper

152 100

115 54.7 40.1 120.2

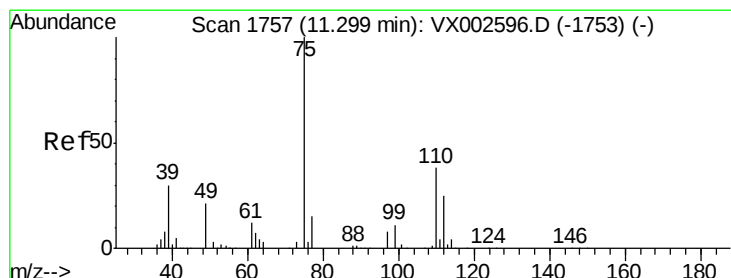
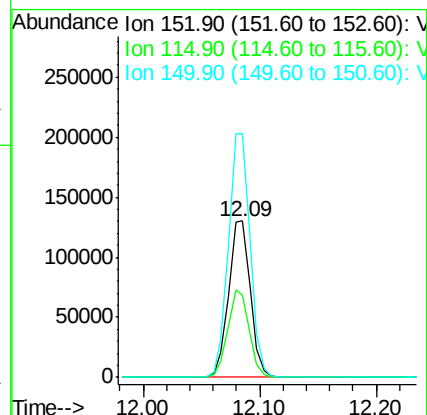
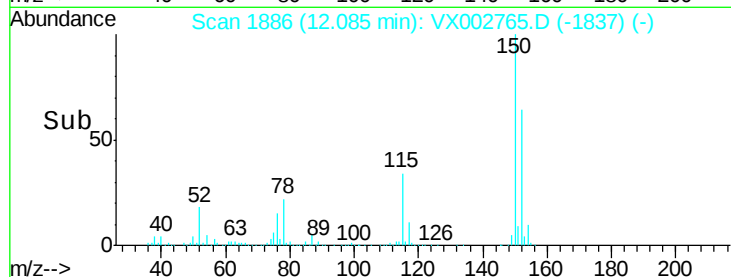
150 156.2 0.0 347.2



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: 26.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002765.D

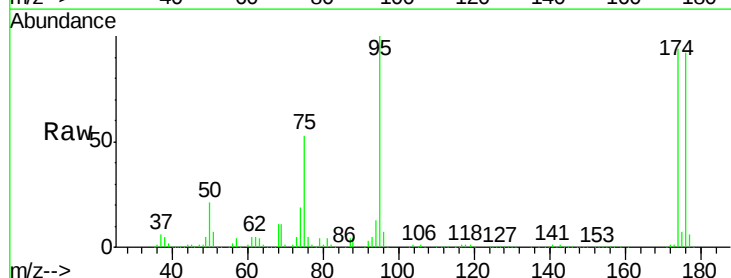
Acq: 21 Jun 2018 02:32

Tgt Ion: 75 Resp: 84216

Ion Ratio Lower Upper

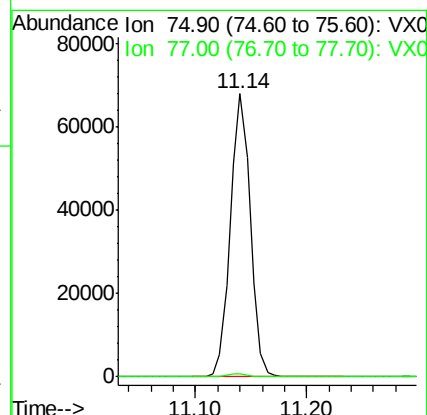
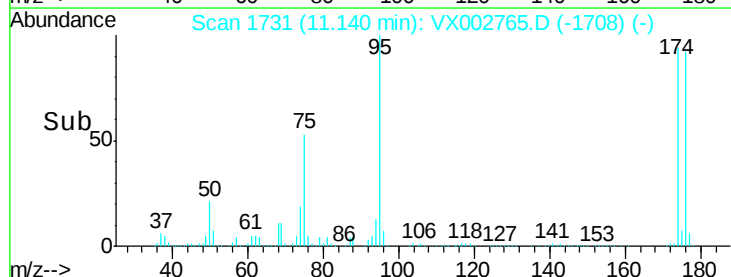
75 100

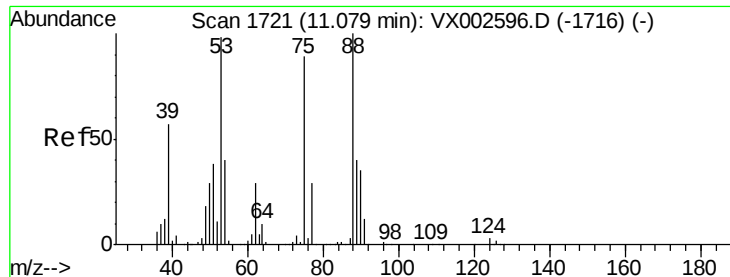
77 1.4 22.8 68.3#



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: 82.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002765.D

Acq: 21 Jun 2018 02:32

Instrument :

MSVOA_X

ClientSampled :

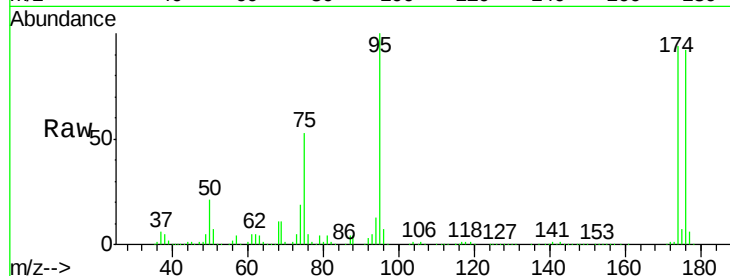
Tot Ion: 75 Resp: 84216

Ion Ratio Lower Upper

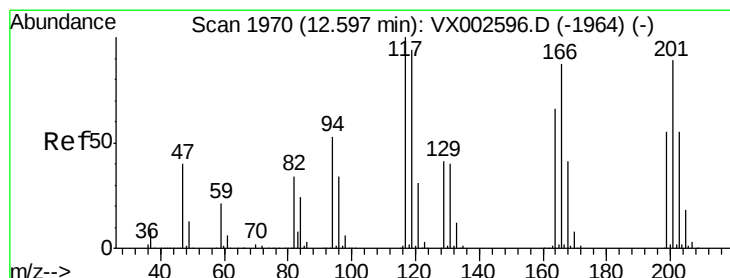
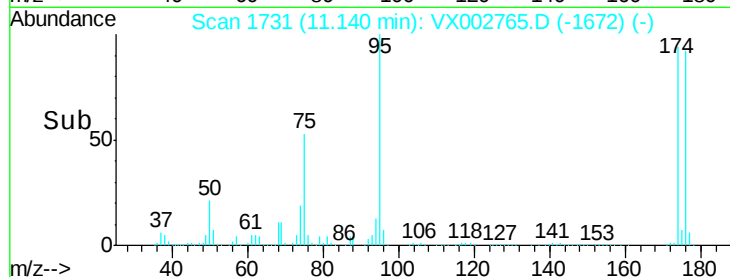
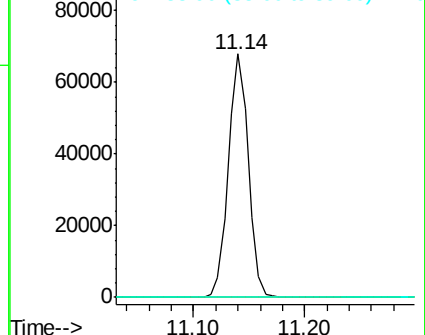
75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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



#90

Hexachloroethane

Concen: 2.67 ug/l

RT: 12.38 min Scan# 1935

Delta R.T. -0.21 min

Lab File: VX002765.D

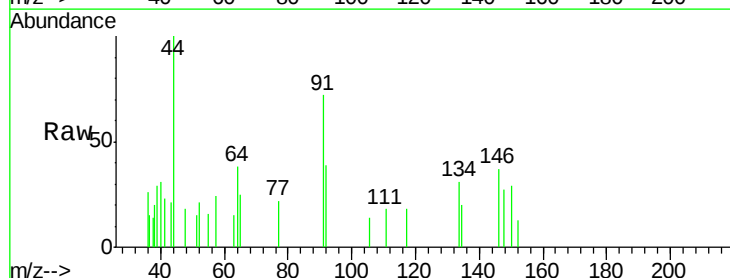
Acq: 21 Jun 2018 02:32

Tgt Ion:117 Resp: 71

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

