

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042018\
 Data File : VX001032.D
 Acq On : 21 Apr 2018 02:02
 Operator : JC/MD
 Sample : J2471-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

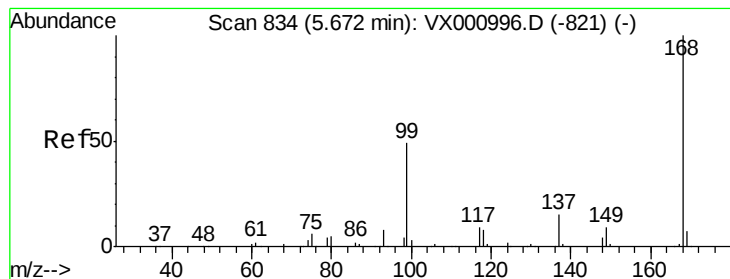
Quant Time: Apr 21 05:42:14 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	239532	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	336549	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	319774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	210150	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	157338	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
35) Dibromofluoromethane	5.51	113	119708	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	
50) Toluene-d8	8.72	98	475874	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
62) 4-Bromofluorobenzene	11.14	95	185719	46.63	ug/l	0.00
Spiked Amount			Recovery	=	93.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	219	Below Cal	#	60
6) Chloroethane	1.73	64	526	0.31	ug/l #	43
8) Diethyl Ether	2.19	74	4953	3.11	ug/l	90
10) Methyl Iodide	2.52	142	115	7.64	ug/l #	66
11) Tert butyl alcohol	3.07	59	1025	2.24	ug/l #	67
13) Acrolein	2.31	56	64	11.36	ug/l #	1
16) Acetone	2.45	43	13839	12.10	ug/l	98
20) Methylene Chloride	2.86	84	392	Below Cal		91
25) 2-Butanone	4.72	43	1157	0.65	ug/l #	60
28) Bromochloromethane	5.21	49	485	0.28	ug/l #	8
29) Tetrahydrofuran	5.17	42	1590	1.41	ug/l #	59
30) Chloroform	5.22	83	5062	1.07	ug/l	94
36) 1,1-Dichloropropene	5.67	75	14989	3.79	ug/l #	50
38) Carbon Tetrachloride	5.68	117	20811	5.20	ug/l #	15
40) Benzene	6.15	78	8457	0.77	ug/l	100
47) Bromodichloromethane	7.91	83	1079	0.30	ug/l #	88
65) Chlorobenzene	10.15	112	15813	1.86	ug/l	100
67) Ethyl Benzene	10.26	91	16563	1.17	ug/l	98
68) m/p-Xylenes	10.37	106	53635	9.62	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	95286	26.13	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.51	105	6185	0.53	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.14	75	95286	78.24	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.81	105	22916	1.91	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	8814	1.15	ug/l #	78
95) Naphthalene	13.84	128	11778	0.79	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

Instrument :

MSVOA_X

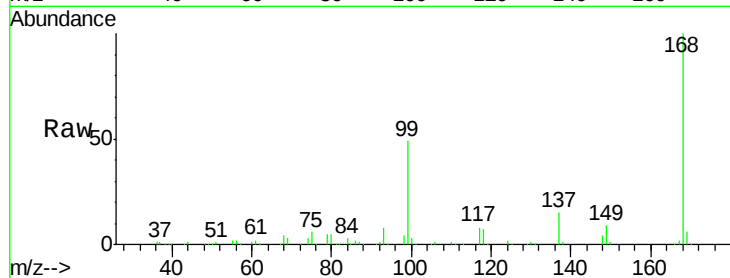
ClientSampled :

Tot Ion:168 Resp: 239532

Ion Ratio Lower Upper

168 100

99 48.8 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

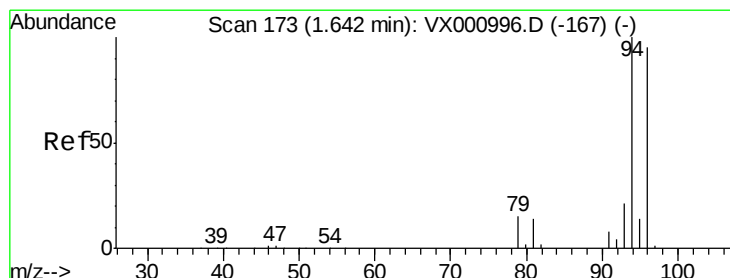
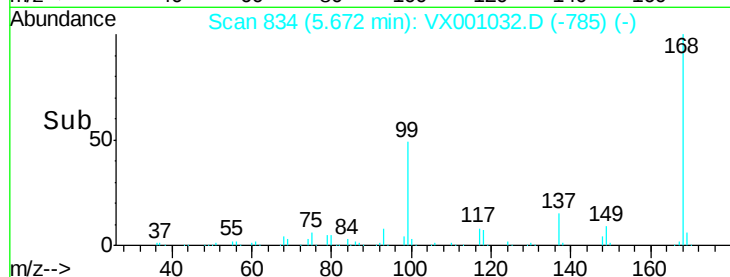
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 178

Delta R.T. 0.03 min

Lab File: VX001032.D

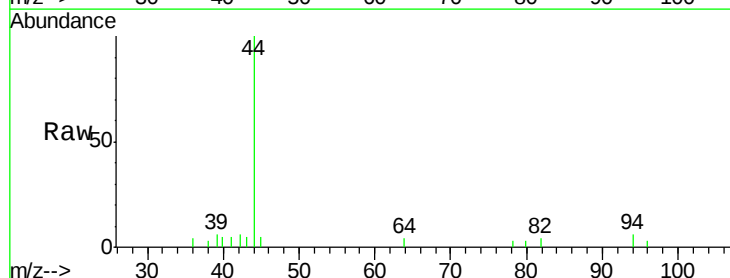
Acq: 21 Apr 2018 02:02

Tgt Ion: 94 Resp: 219

Ion Ratio Lower Upper

94 100

96 55.8 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

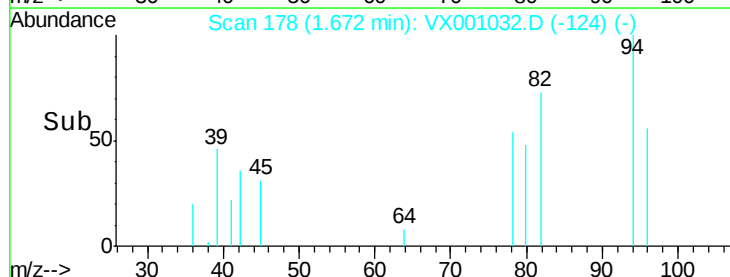
150

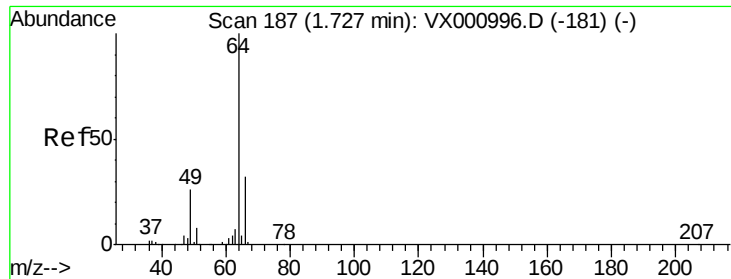
100

50

0

Time--> 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.31 ug/l

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

Instrument :

MSVOA_X

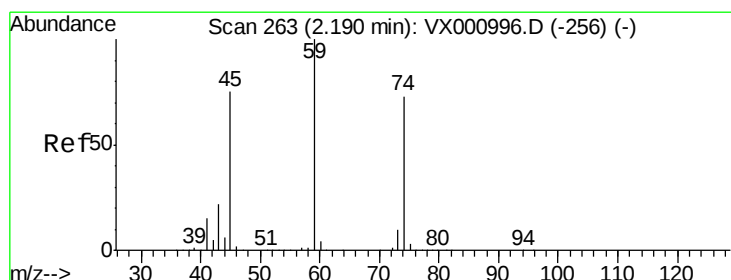
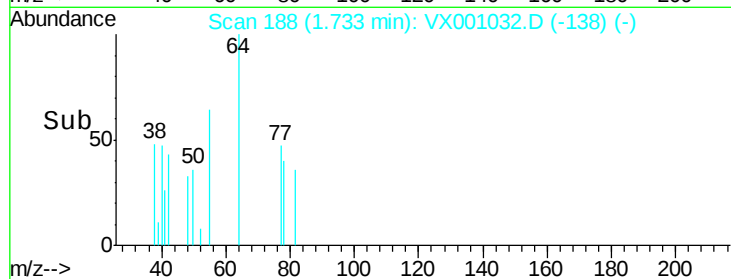
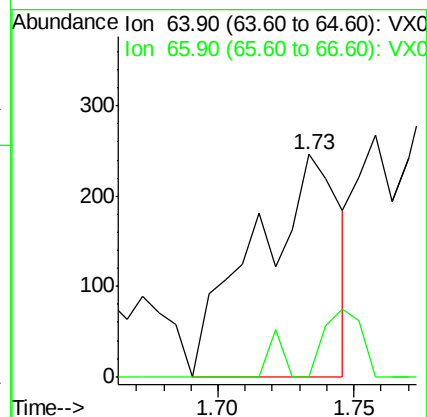
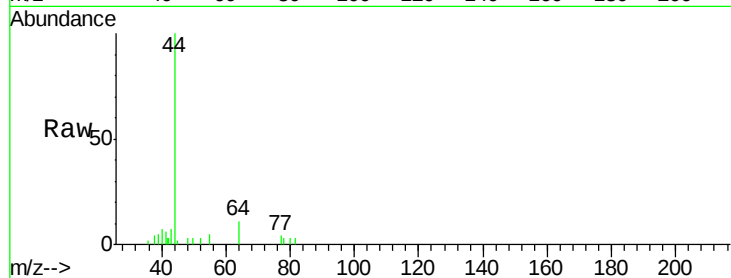
ClientSampled :

Tot Ion: 64 Resp: 526

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



#8

Diethyl Ether

Concen: 3.11 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX001032.D

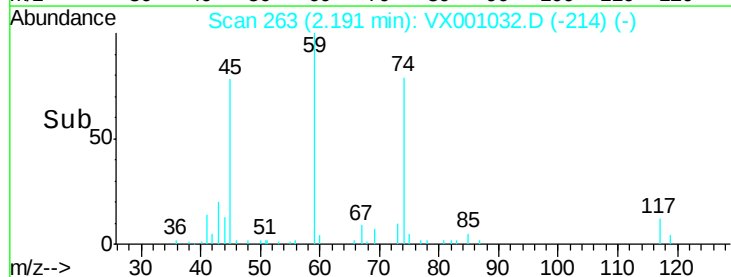
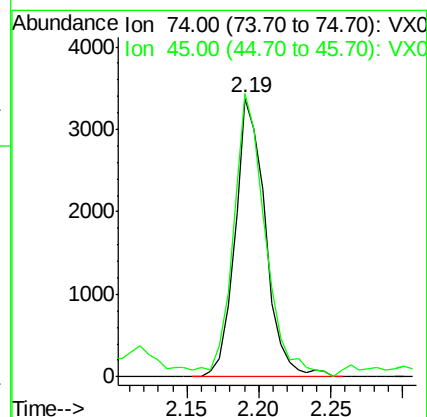
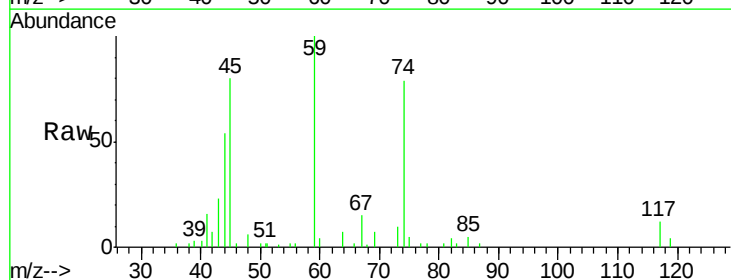
Acq: 21 Apr 2018 02:02

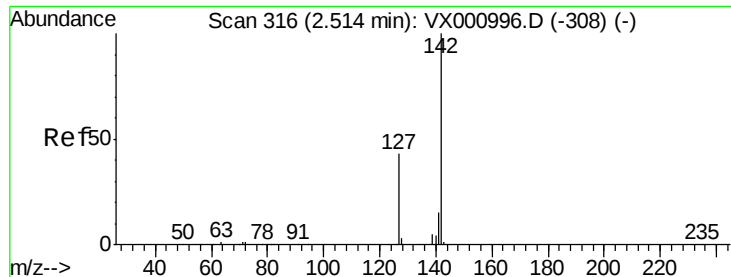
Tgt Ion: 74 Resp: 4953

Ion Ratio Lower Upper

74 100

45 107.5 49.0 147.0





#10

Methyl Iodide

Concen: 7.64 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

Instrument :
MSVOA_X
ClientSampled :

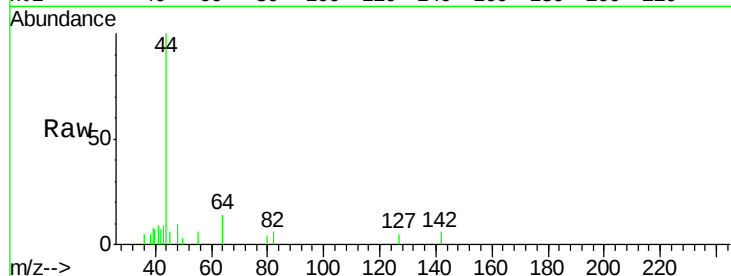
Tot Ion:142 Resp: 115

Ion Ratio Lower Upper

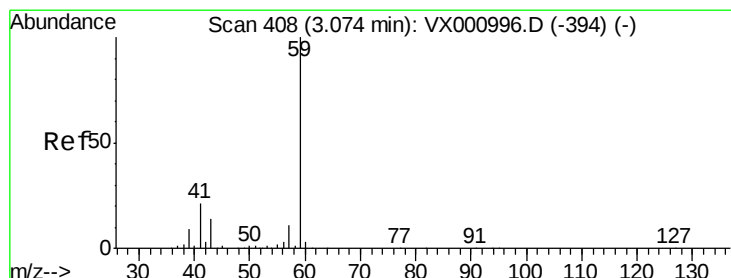
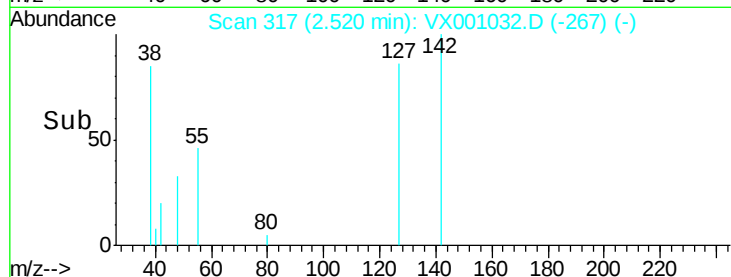
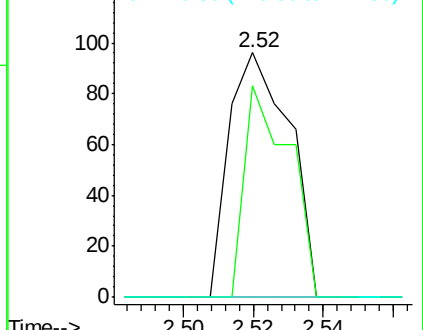
142 100

127 64.3 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



#11

Tert butyl alcohol

Concen: 2.24 ug/l

RT: 3.07 min Scan# 407

Delta R.T. -0.01 min

Lab File: VX001032.D

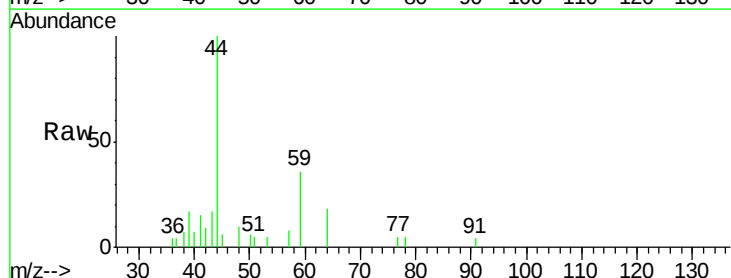
Acq: 21 Apr 2018 02:02

Tgt Ion: 59 Resp: 1025

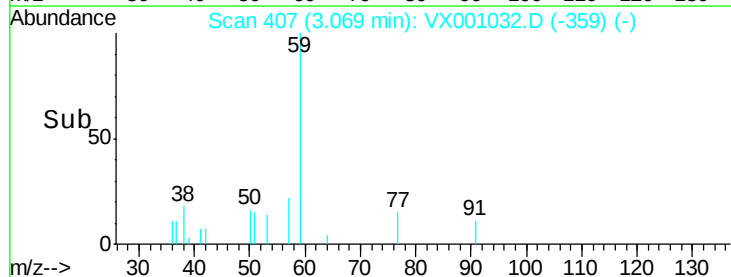
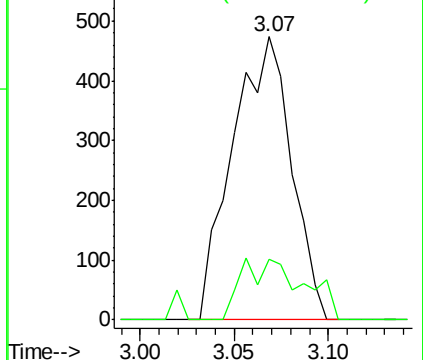
Ion Ratio Lower Upper

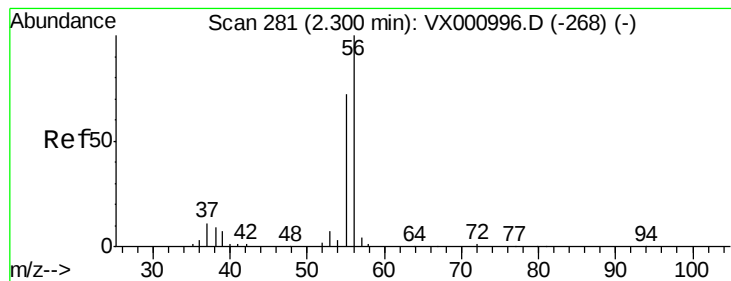
59 100

57 22.7 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 11.36 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

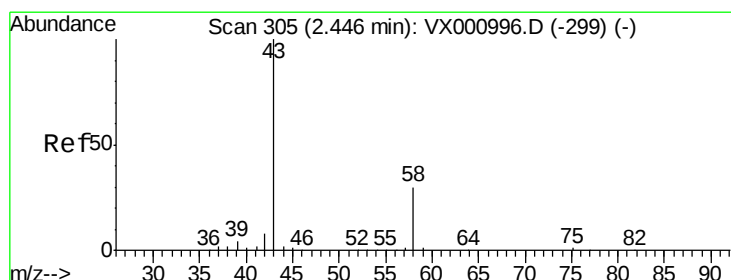
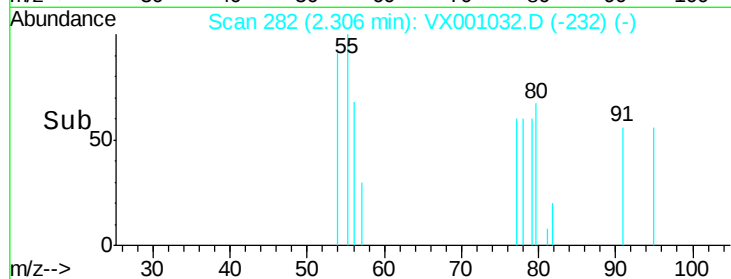
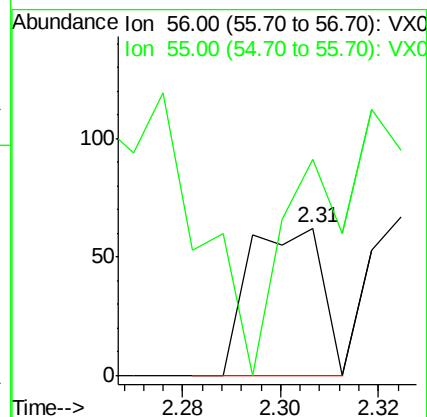
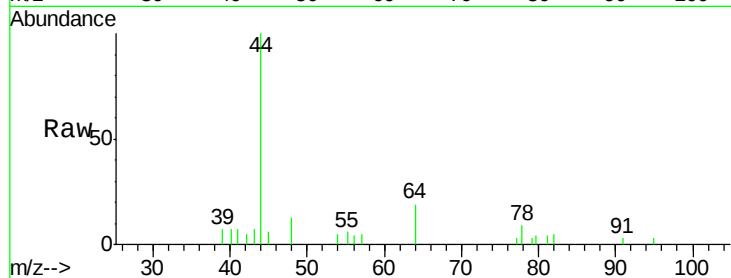
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 64

Ion Ratio Lower Upper

56 100

55 279.7 57.4 86.2#



#16

Acetone

Concen: 12.10 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX001032.D

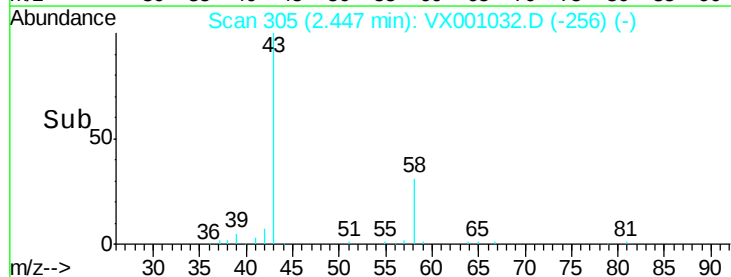
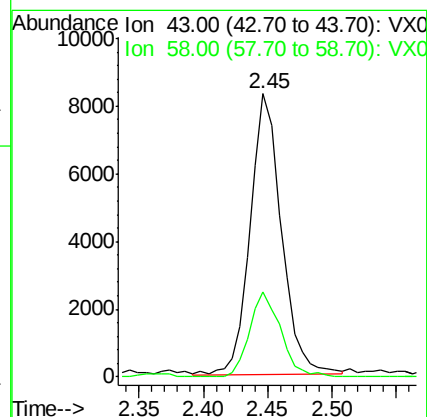
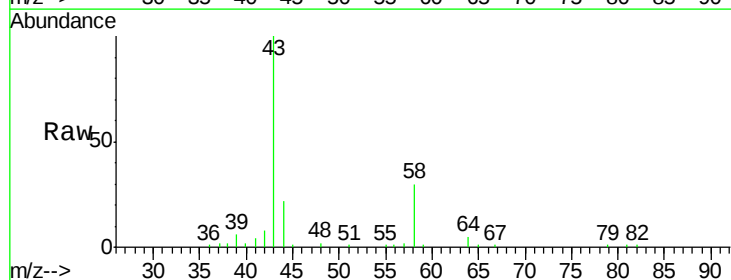
Acq: 21 Apr 2018 02:02

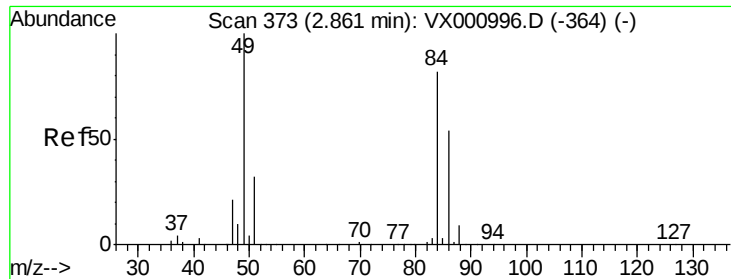
Tgt Ion: 43 Resp: 13839

Ion Ratio Lower Upper

43 100

58 30.5 23.7 35.5

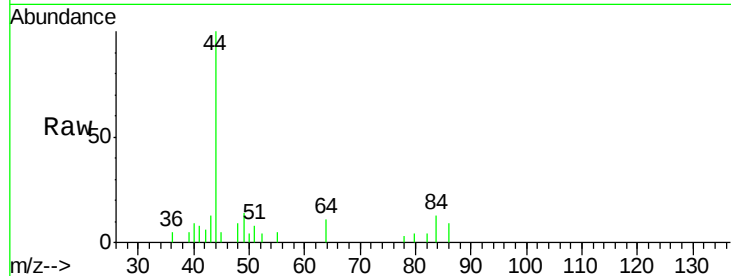




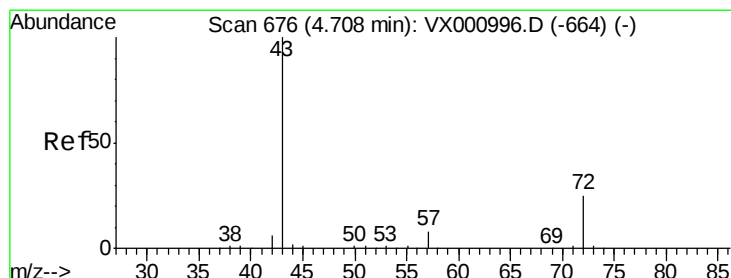
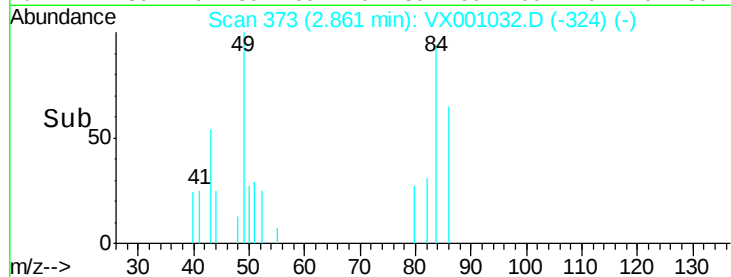
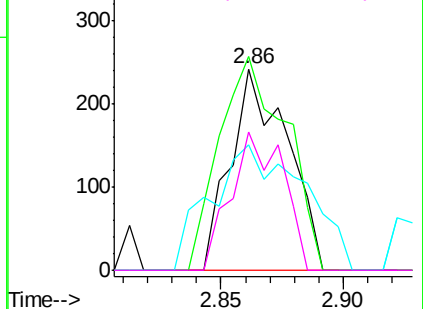
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 392
Ion Ratio Lower Upper
84 100
49 106.2 97.1 145.7
51 40.7 30.8 46.2
86 68.9 52.3 78.5

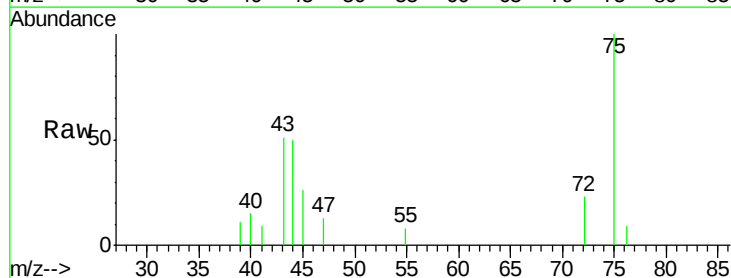


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

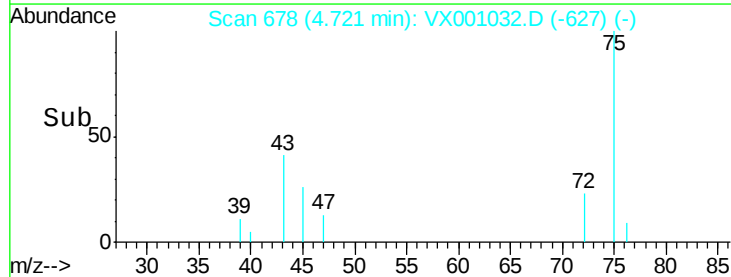
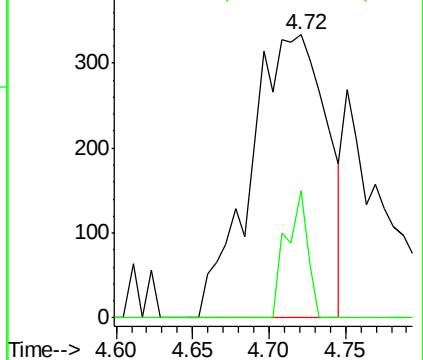


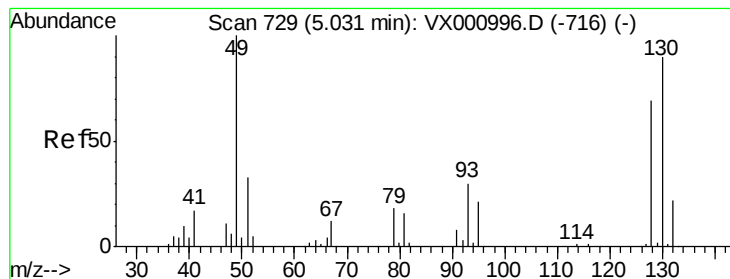
#25
2-Butanone
Concen: 0.65 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

Tgt Ion: 43 Resp: 1157
Ion Ratio Lower Upper
43 100
72 45.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: 0.28 ug/l

RT: 5.21 min Scan# 759

Delta R.T. 0.18 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

Instrument :
MSVOA_X
ClientSampled :

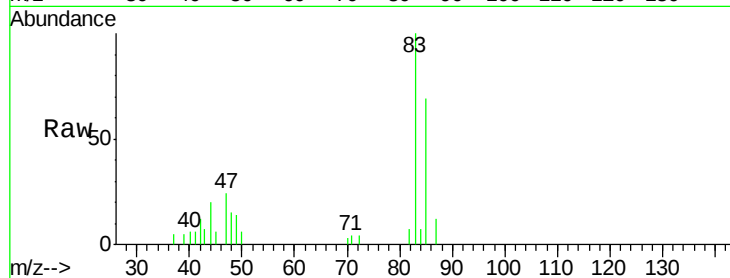
Tot Ion: 49 Resp: 485

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.8

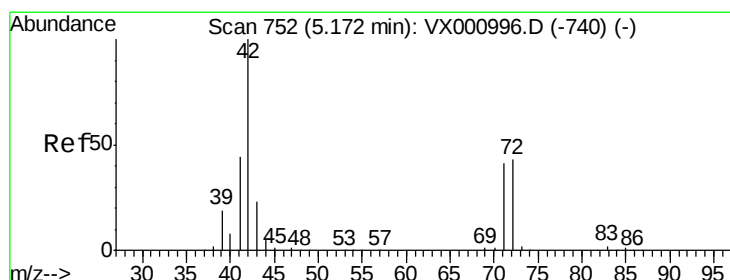
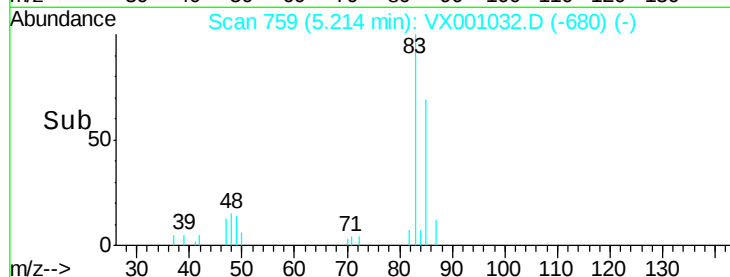
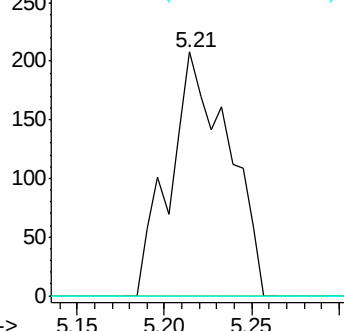
130 0.0 70.6 105.8#



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



#29

Tetrahydrofuran

Concen: 1.41 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

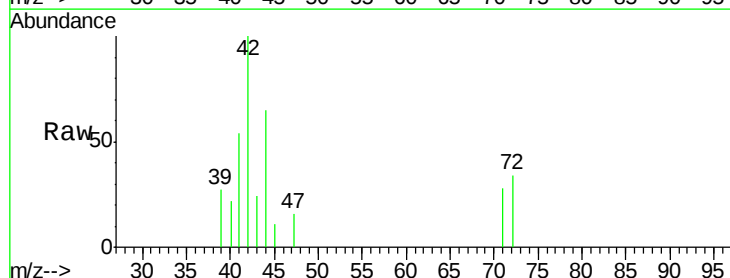
Tgt Ion: 42 Resp: 1590

Ion Ratio Lower Upper

42 100

72 17.7 34.6 52.0#

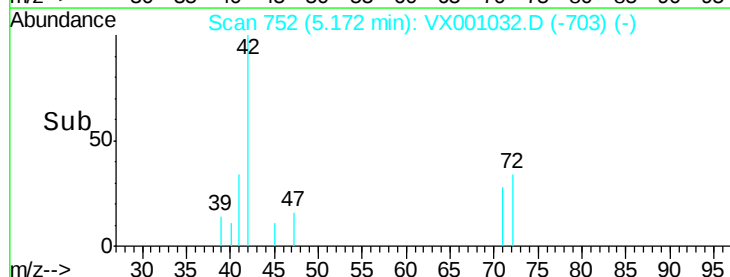
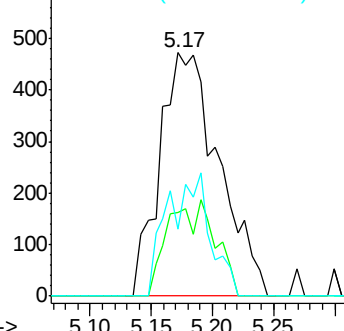
71 14.0 32.6 49.0#

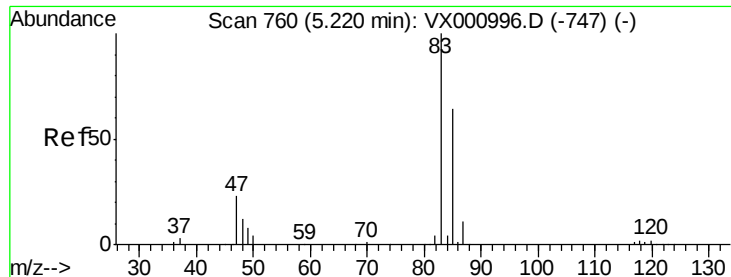


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#30

Chloroform

Concen: 1.07 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

Instrument :

MSVOA_X

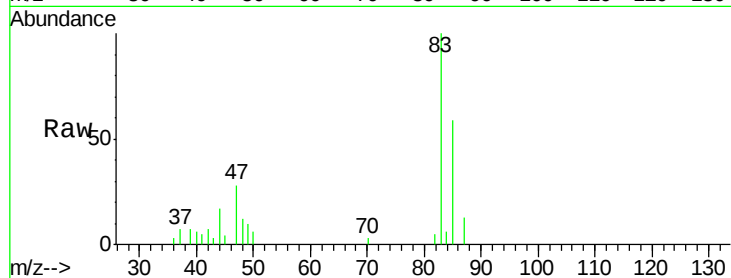
ClientSampleId :

Tot Ion: 83 Resp: 5062

Ion Ratio Lower Upper

83 100

85 59.1 51.3 76.9



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.22

1500

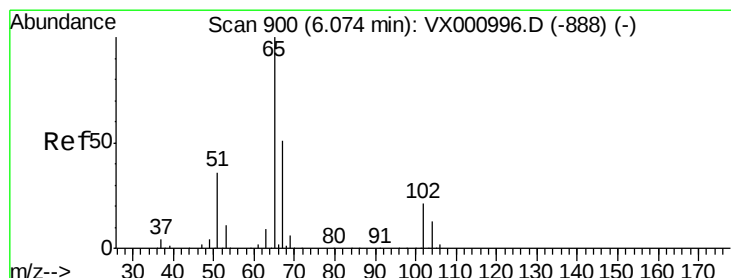
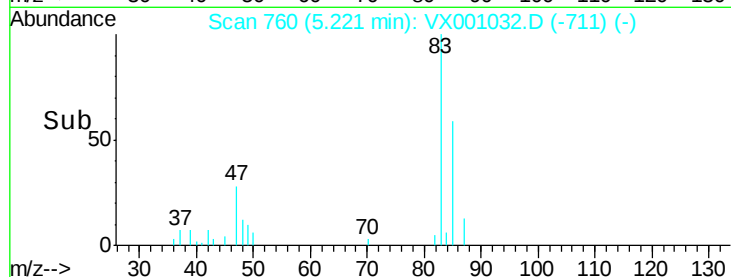
1000

500

0

Time-->

5.15 5.20 5.25 5.30



#33

1,2-Dichloroethane-d4

Concen: 51.82 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001032.D

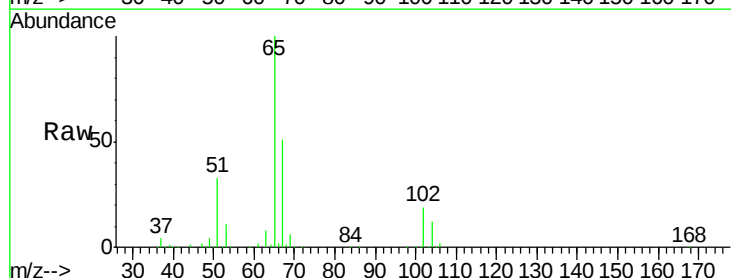
Acq: 21 Apr 2018 02:02

Tgt Ion: 65 Resp: 157338

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

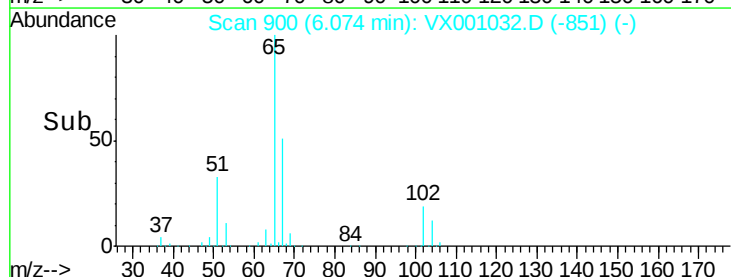
40000

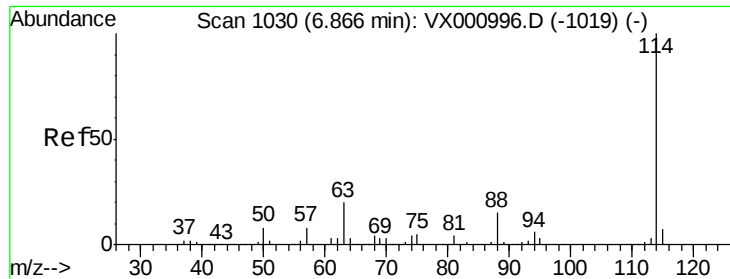
20000

0

Time-->

6.00 6.10 6.20

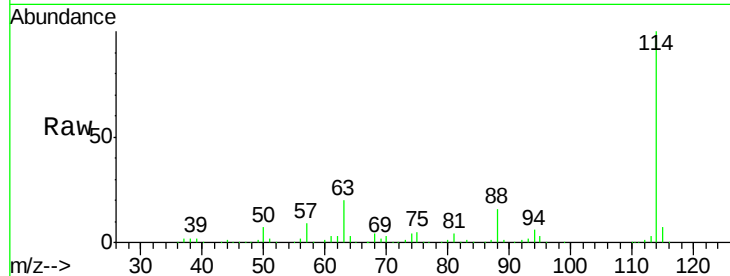




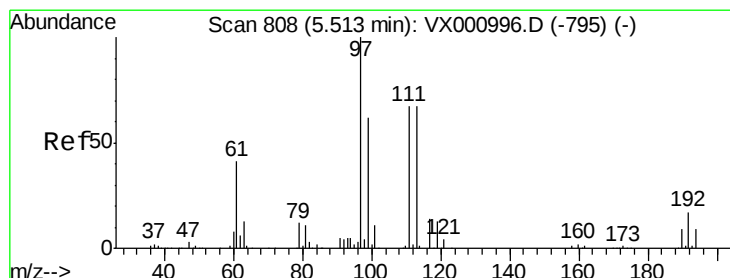
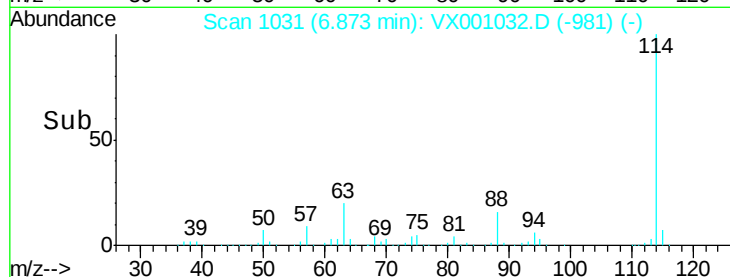
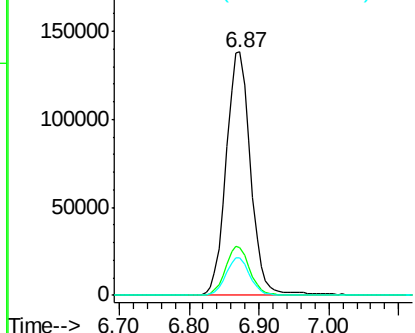
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX001032.D
 Acq: 21 Apr 2018 02:02

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 336549
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.4
 88 15.6 0.0 29.8

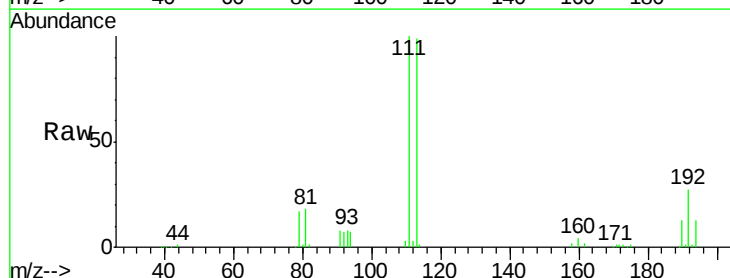


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

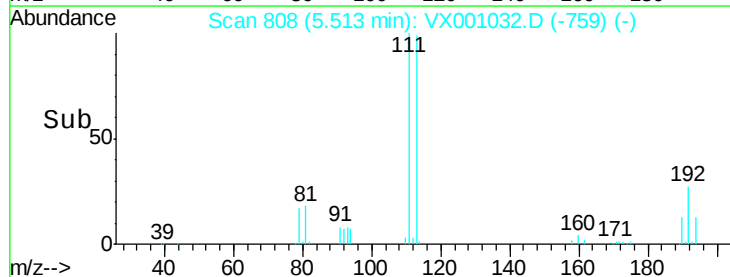
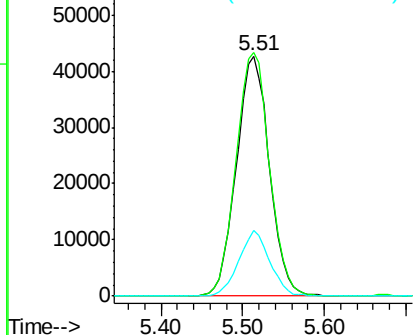


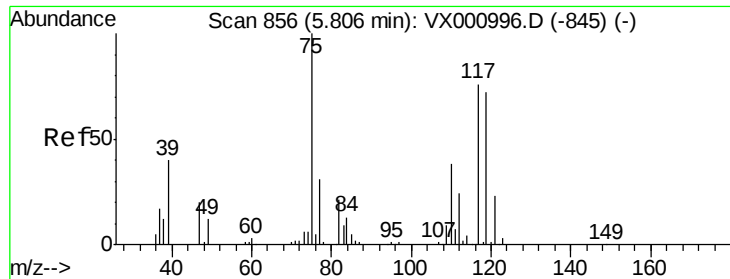
#35
 Dibromofluoromethane
 Concen: 46.65 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.00 min
 Lab File: VX001032.D
 Acq: 21 Apr 2018 02:02

Tgt Ion:113 Resp: 119708
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.4 122.2
 192 25.7 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

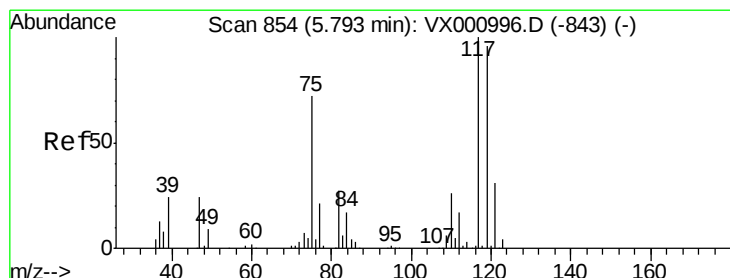
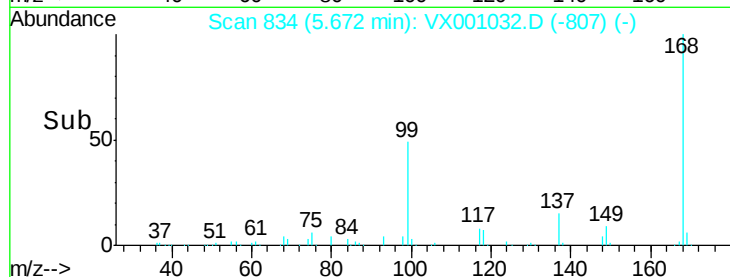
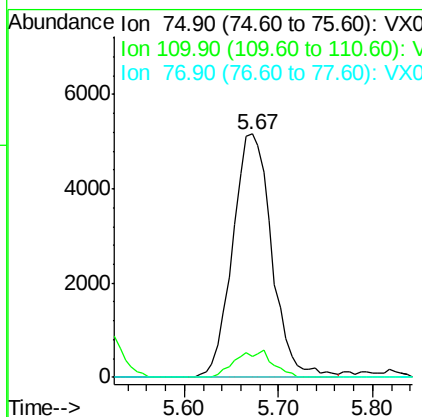
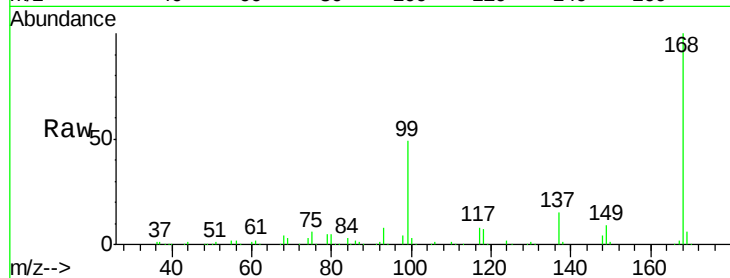




#36
 1,1-Dichloropropene
 Concen: 3.79 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX001032.D
 Acq: 21 Apr 2018 02:02

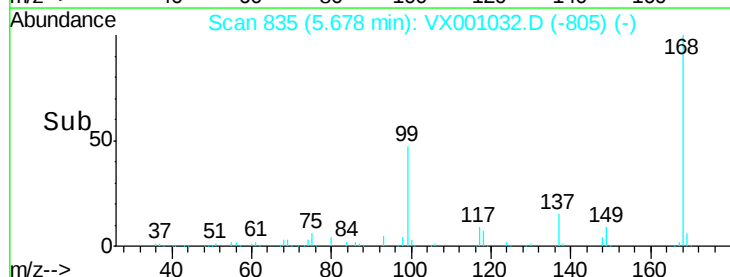
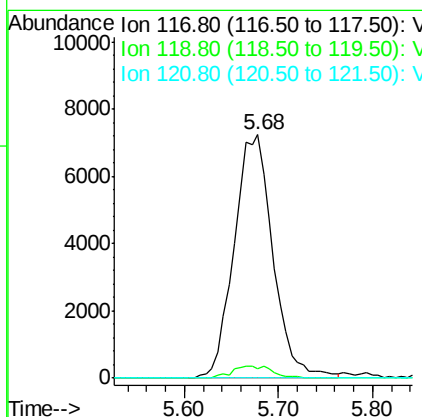
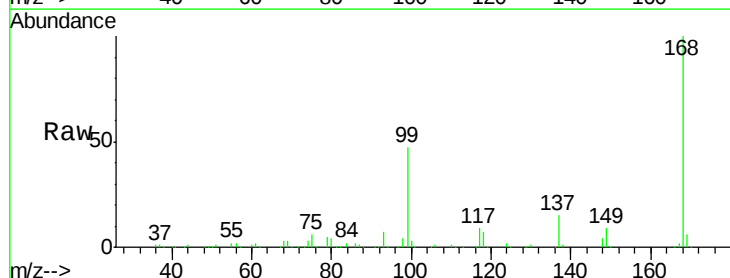
Instrument :
 MSVOA_X
 ClientSampleId :

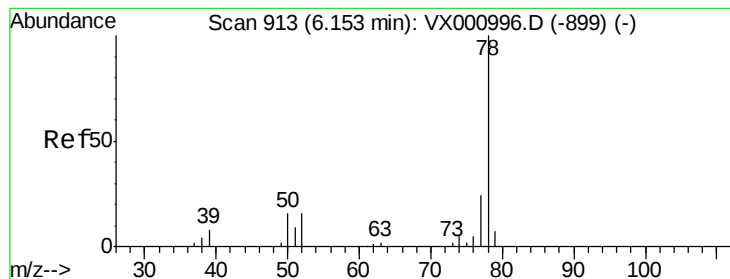
Tot Ion: 75 Resp: 14989
 Ion Ratio Lower Upper
 75 100
 110 10.5 18.7 56.1#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.20 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.12 min
 Lab File: VX001032.D
 Acq: 21 Apr 2018 02:02

Tgt Ion: 117 Resp: 20811
 Ion Ratio Lower Upper
 117 100
 119 3.7 76.5 114.7#
 121 0.0 24.5 36.7#





#40

Benzene

Concen: 0.77 ug/l

RT: 6.15 min Scan# 913

Delta R.T. 0.00 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

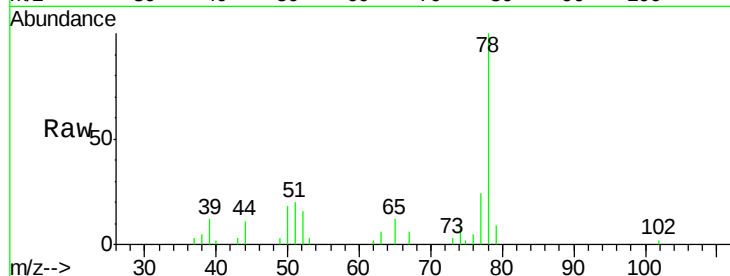
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 78 Resp: 8457

Ion Ratio Lower Upper

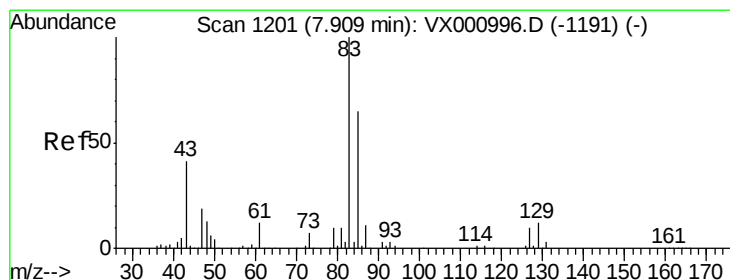
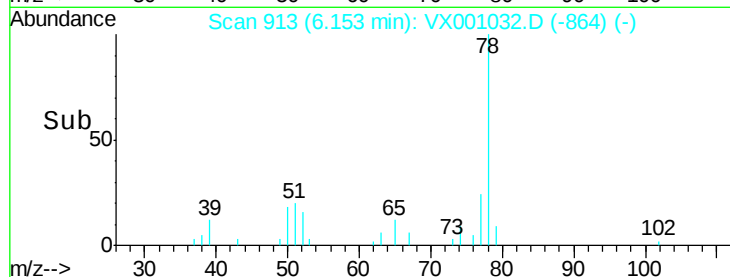
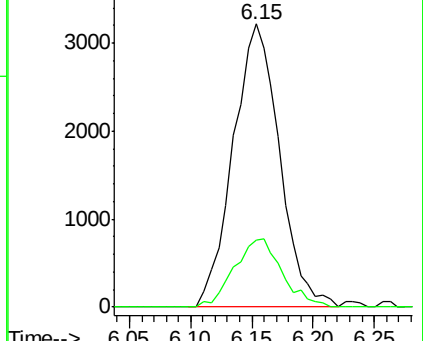
78 100

77 23.7 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#47

Bromodichloromethane

Concen: 0.30 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

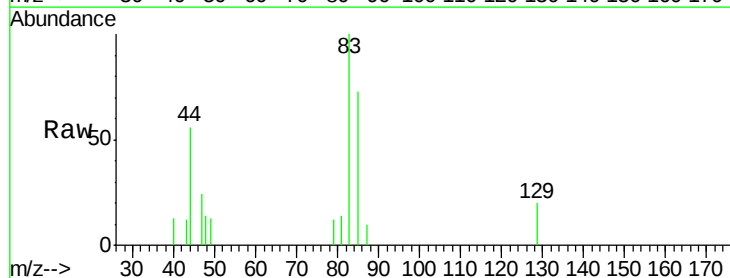
Tgt Ion: 83 Resp: 1079

Ion Ratio Lower Upper

83 100

85 73.5 52.3 78.5

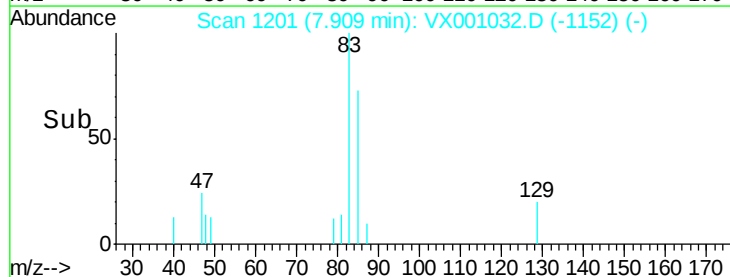
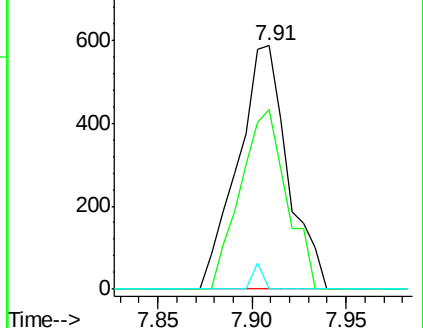
127 0.0 7.8 11.6#

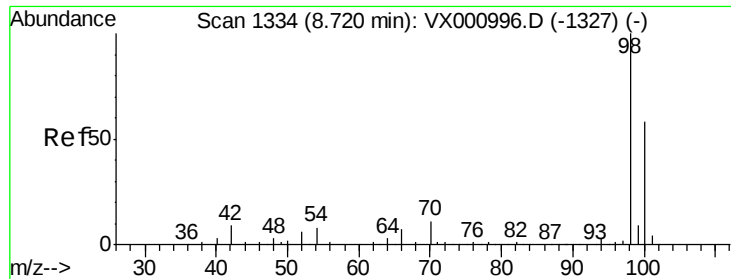


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

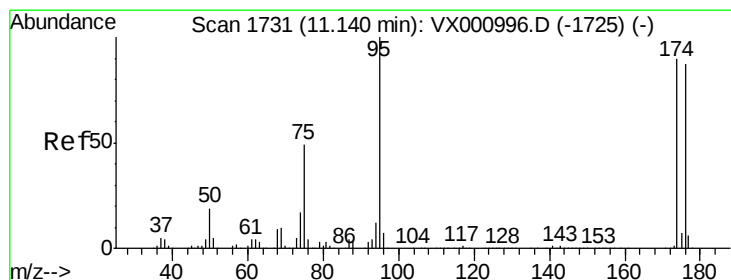
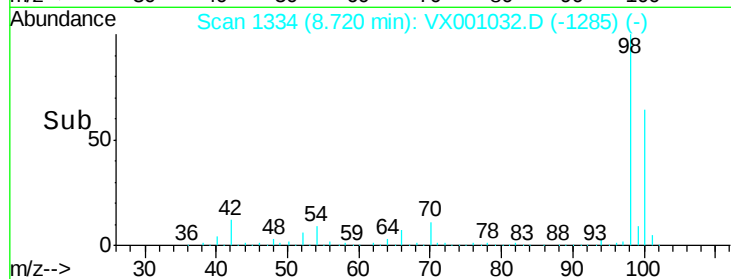
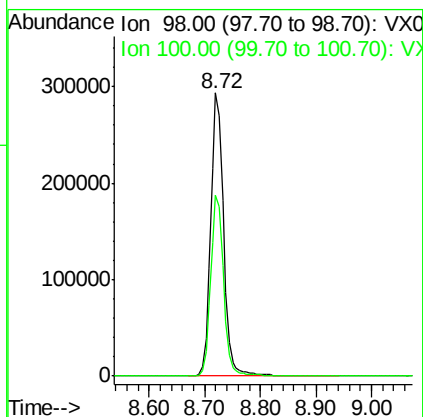
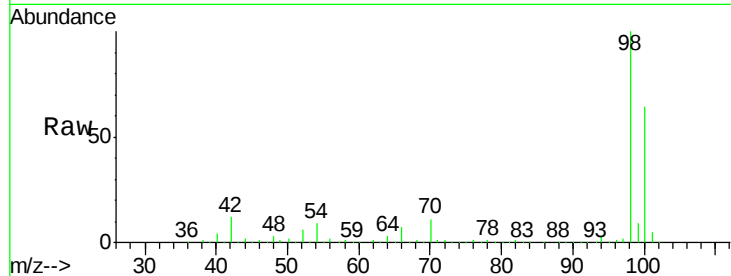




#50
Toluene-d8
Concen: 50.15 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

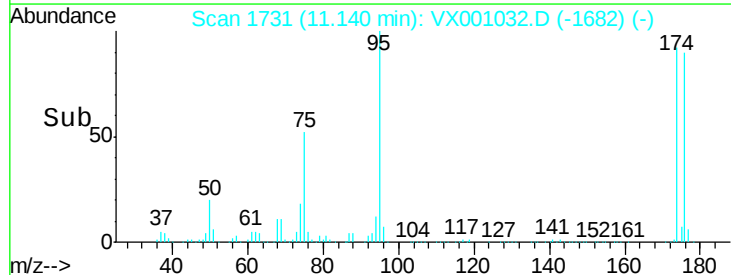
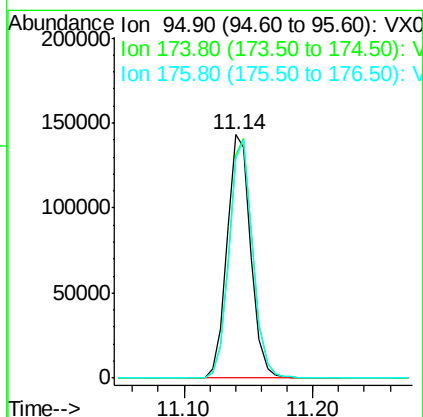
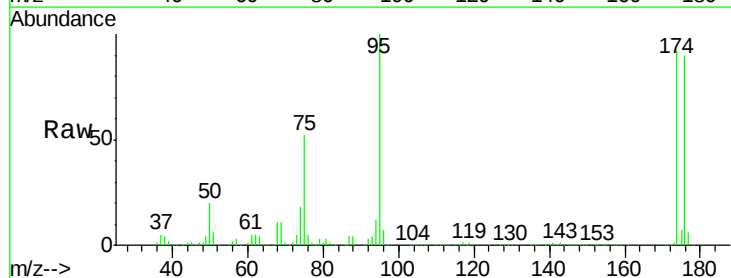
Instrument :
MSVOA_X
ClientSampleId :

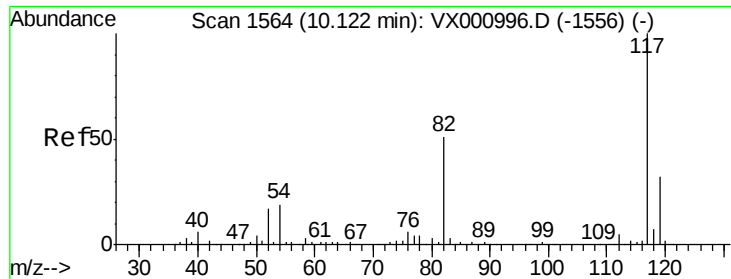
Tot Ion: 98 Resp: 475874
Ion Ratio Lower Upper
98 100
100 64.4 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 46.63 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

Tgt Ion: 95 Resp: 185719
Ion Ratio Lower Upper
95 100
174 97.7 0.0 198.4
176 96.2 0.0 192.0

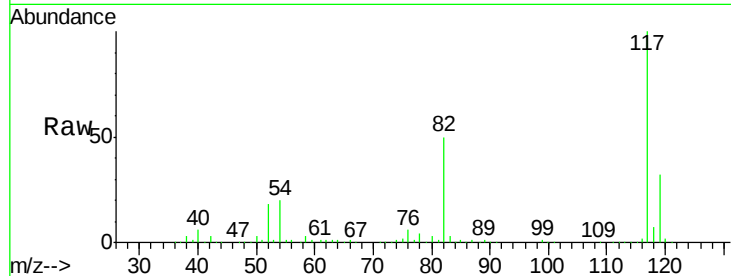




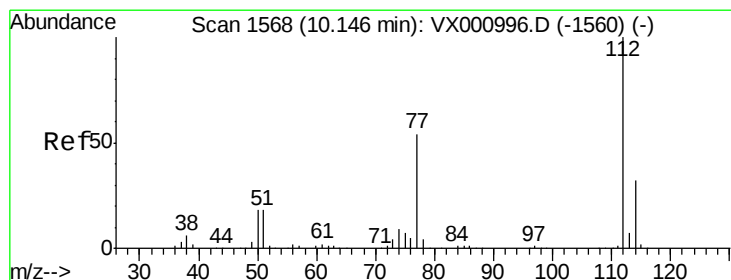
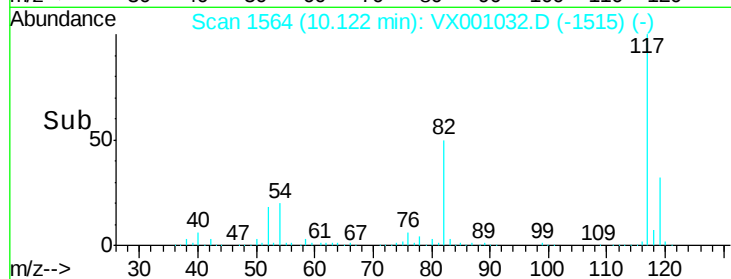
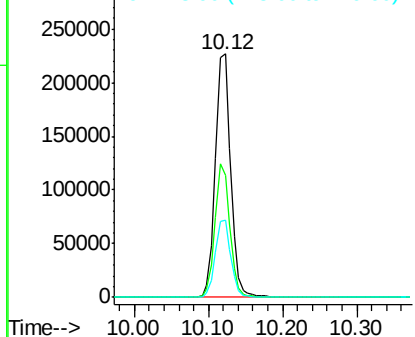
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 319774
Ion Ratio Lower Upper
117 100
82 50.3 40.6 60.8
119 31.7 26.0 39.0

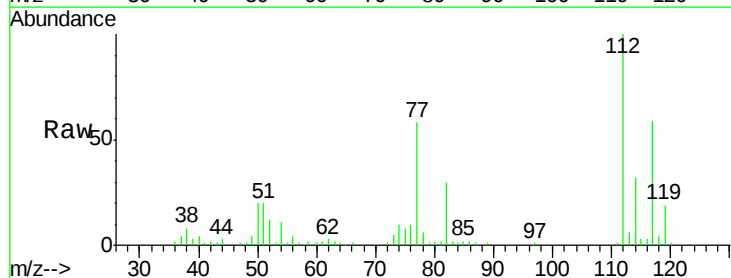


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

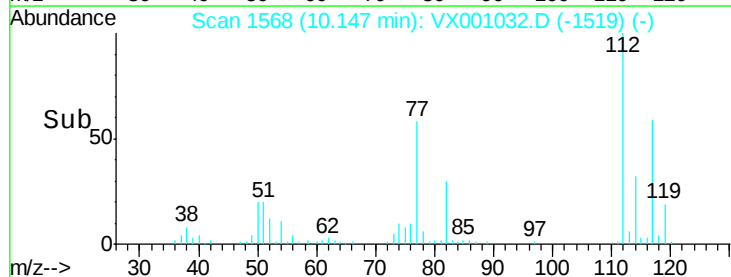
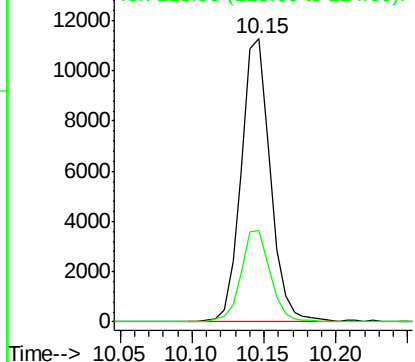


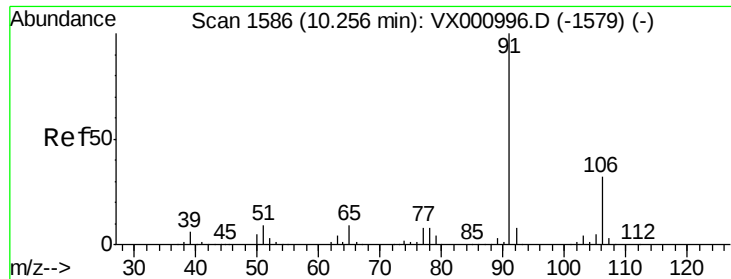
#65
Chlorobenzene
Concen: 1.86 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

Tgt Ion:112 Resp: 15813
Ion Ratio Lower Upper
112 100
114 32.1 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

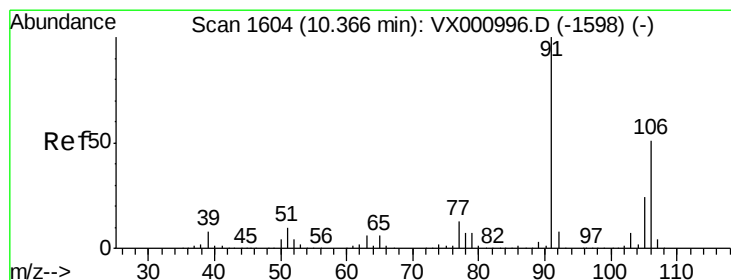
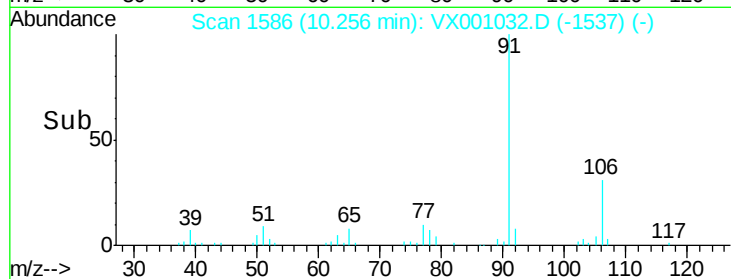
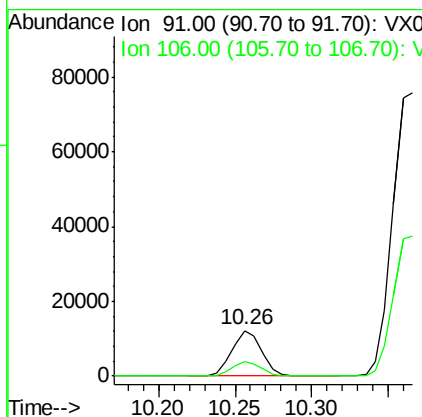
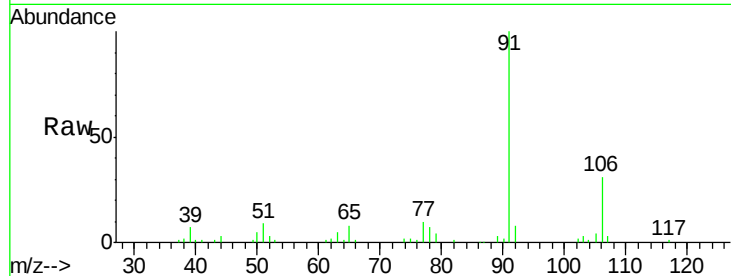




#67
Ethyl Benzene
Concen: 1.17 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

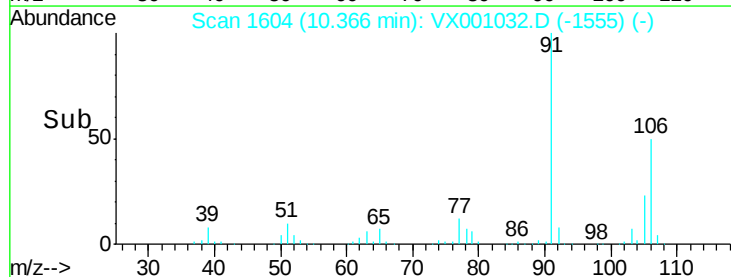
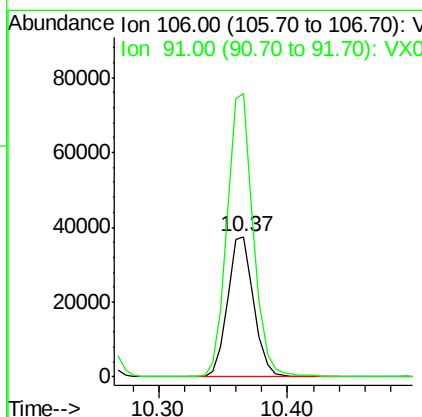
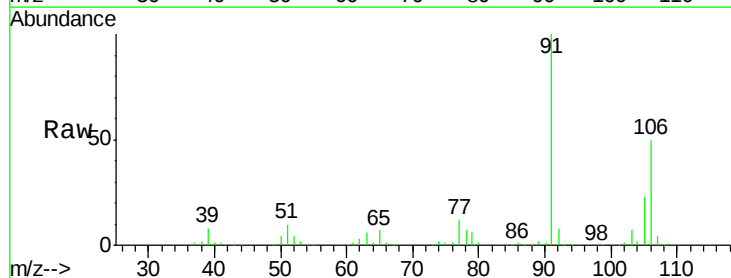
Instrument :
MSVOA_X
ClientSampled :

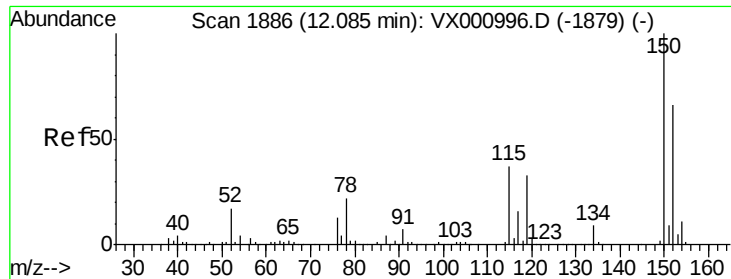
Tot Ion: 91 Resp: 16563
Ion Ratio Lower Upper
91 100
106 31.0 25.7 38.5



#68
m/p-Xylenes
Concen: 9.62 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

Tgt Ion: 106 Resp: 53635
Ion Ratio Lower Upper
106 100
91 202.4 159.3 238.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

Instrument :

MSVOA_X

ClientSampleId :

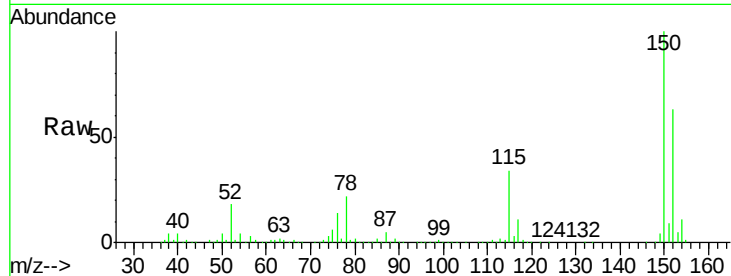
Tot Ion:152 Resp: 210150

Ion Ratio Lower Upper

152 100

115 54.3 38.2 114.6

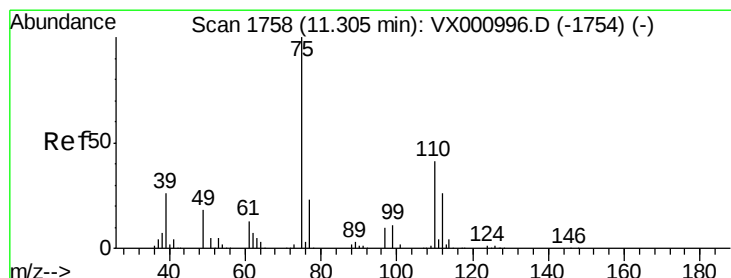
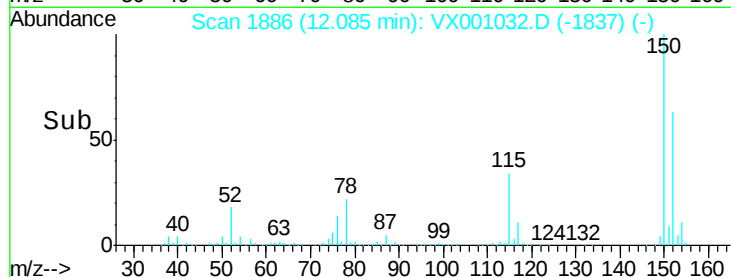
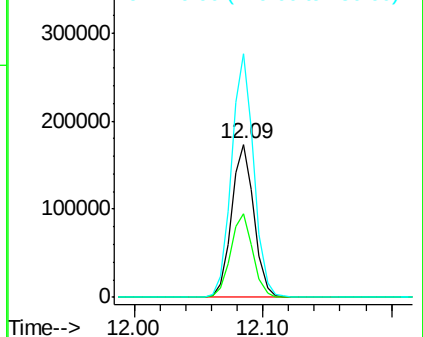
150 158.1 0.0 350.4



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: 26.13 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001032.D

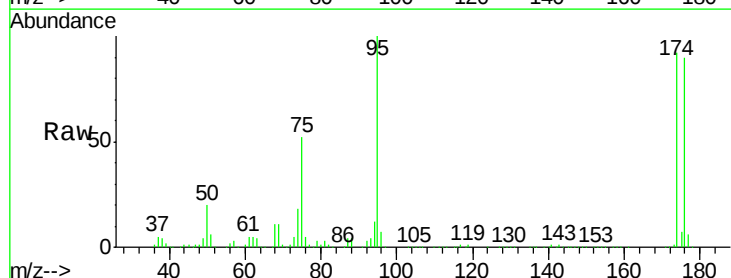
Acq: 21 Apr 2018 02:02

Tgt Ion: 75 Resp: 95286

Ion Ratio Lower Upper

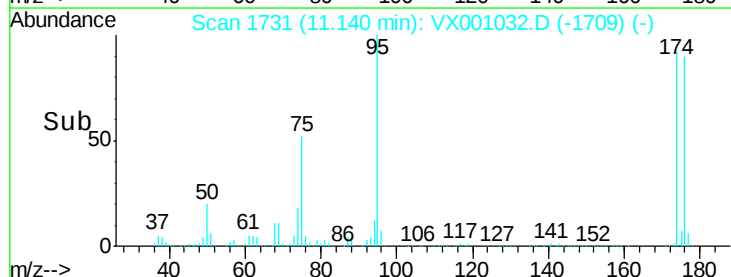
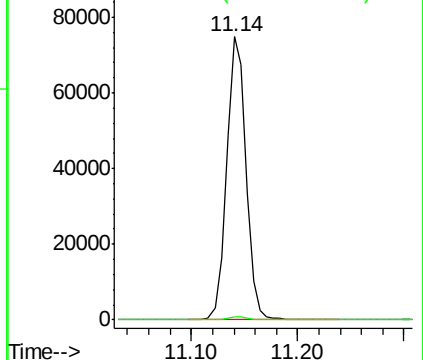
75 100

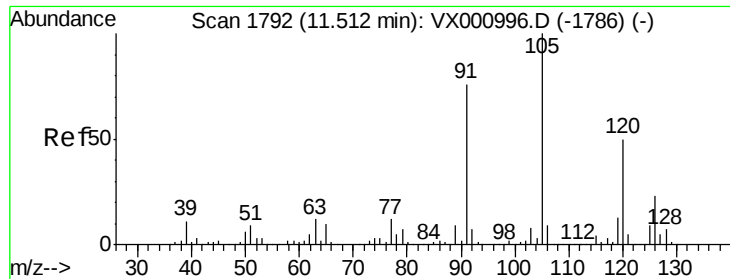
77 1.1 19.6 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

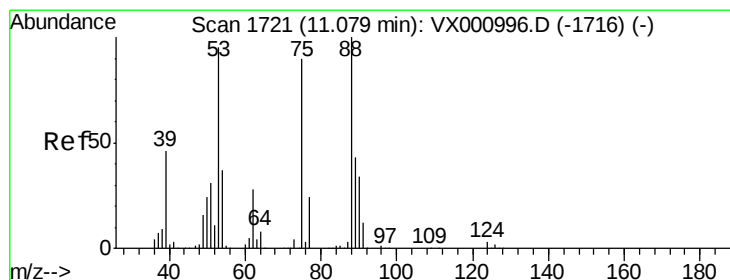
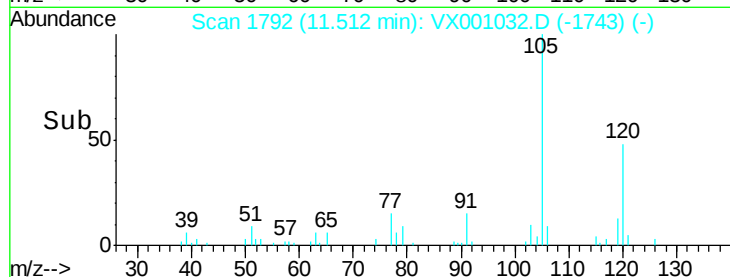
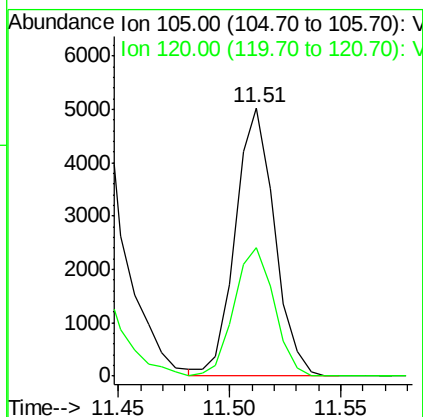
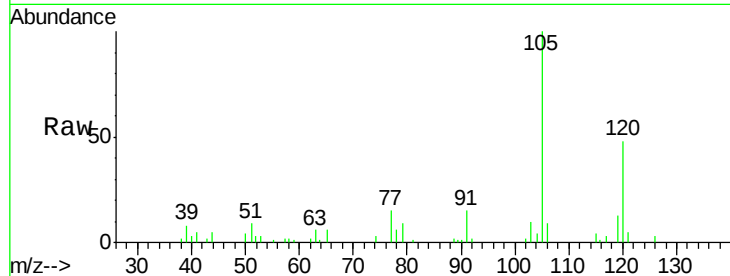




#80
 1,3,5-Trimethylbenzene
 Concen: 0.53 ug/l
 RT: 11.51 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX001032.D
 Acq: 21 Apr 2018 02:02

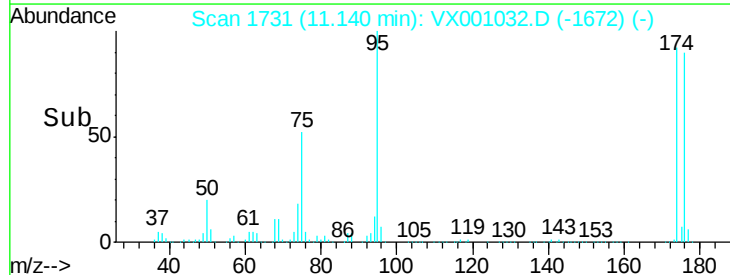
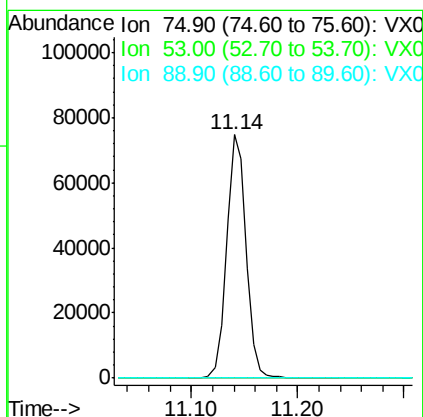
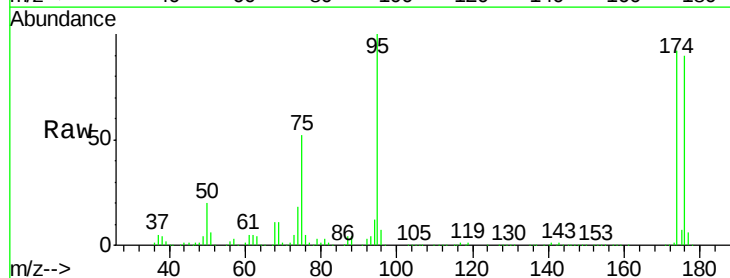
Instrument :
 MSVOA_X
 ClientSampled :

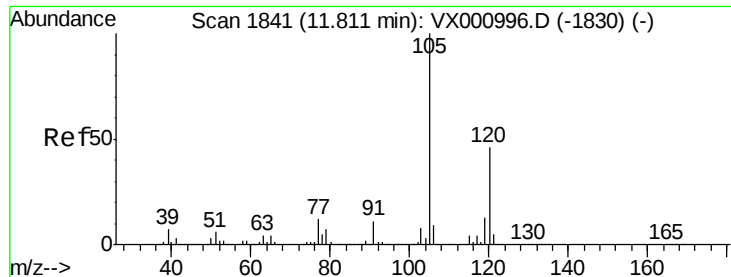
Tot Ion:105 Resp: 6185
 Ion Ratio Lower Upper
 105 100
 120 48.6 25.0 75.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.24 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001032.D
 Acq: 21 Apr 2018 02:02

Tgt Ion: 75 Resp: 95286
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.4 125.2#
 89 0.0 39.7 59.5#

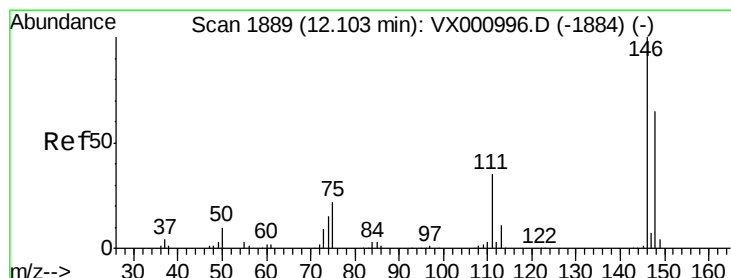
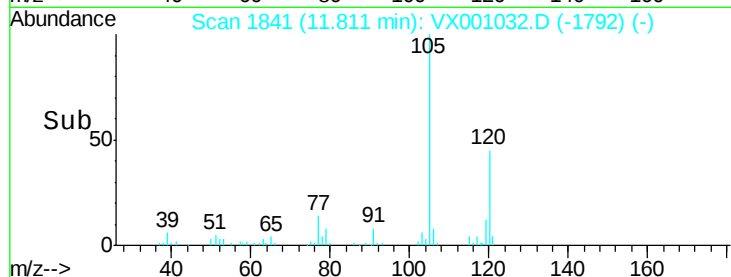
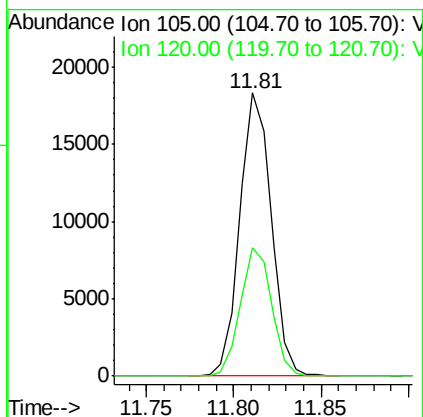
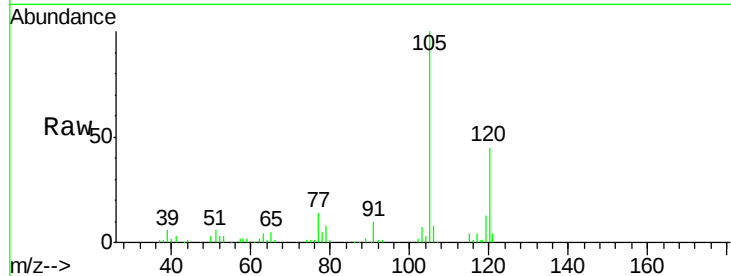




#84
1,2,4-Trimethylbenzene
Concen: 1.91 ug/l
RT: 11.81 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

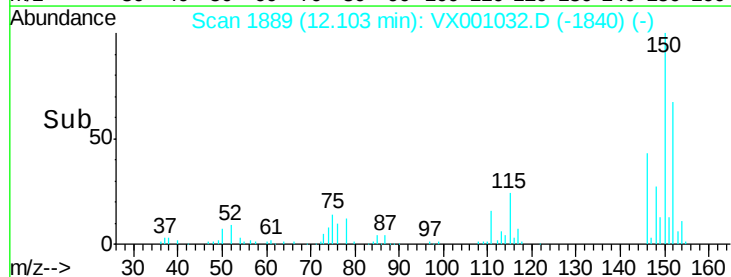
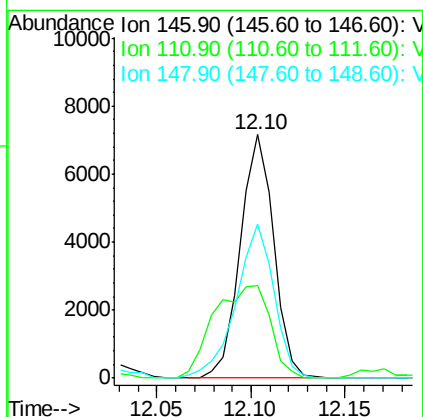
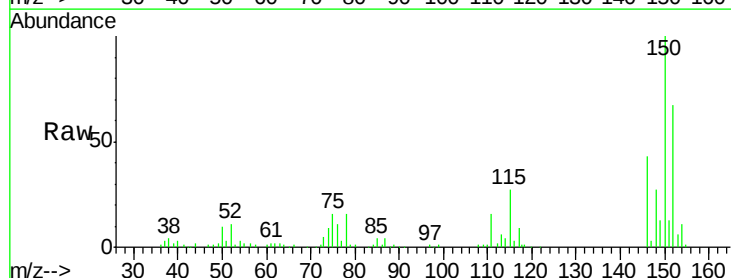
Instrument :
MSVOA_X
ClientSampled :

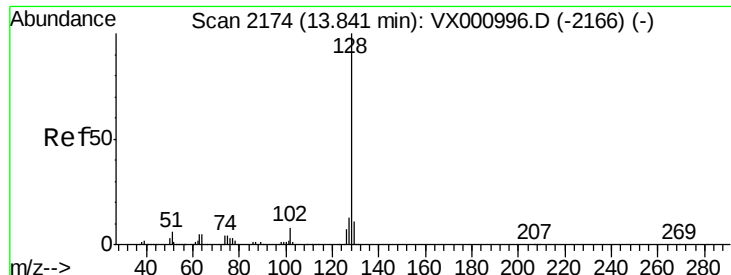
Tot Ion:105 Resp: 22916
Ion Ratio Lower Upper
105 100
120 45.1 23.0 69.0



#88
1,4-Dichlorobenzene
Concen: 1.15 ug/l
RT: 12.10 min Scan# 1889
Delta R.T. 0.00 min
Lab File: VX001032.D
Acq: 21 Apr 2018 02:02

Tgt Ion:146 Resp: 8814
Ion Ratio Lower Upper
146 100
111 63.9 18.0 54.0#
148 71.4 32.4 97.0





#95

Naphthalene

Concen: 0.79 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001032.D

Acq: 21 Apr 2018 02:02

Instrument :

MSVOA_X

ClientSampleId :

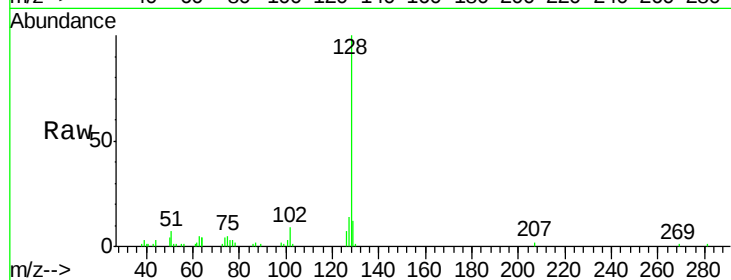
Tot Ion:128 Resp: 11778

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

129 11.4 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

