

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071718\
 Data File : VX003436.D
 Acq On : 17 Jul 2018 19:01
 Operator : JC/MD
 Sample : J3829-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PL-01-071318-B

Quant Time: Jul 18 01:02:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 13:15:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	280945	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	413516	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	388775	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	230171	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	174733	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
35) Dibromofluoromethane	5.51	113	154619	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	
50) Toluene-d8	8.72	98	678294	54.94	ug/l	0.00
Spiked Amount			Recovery	=	109.88%	
62) 4-Bromofluorobenzene	11.14	95	218281	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	

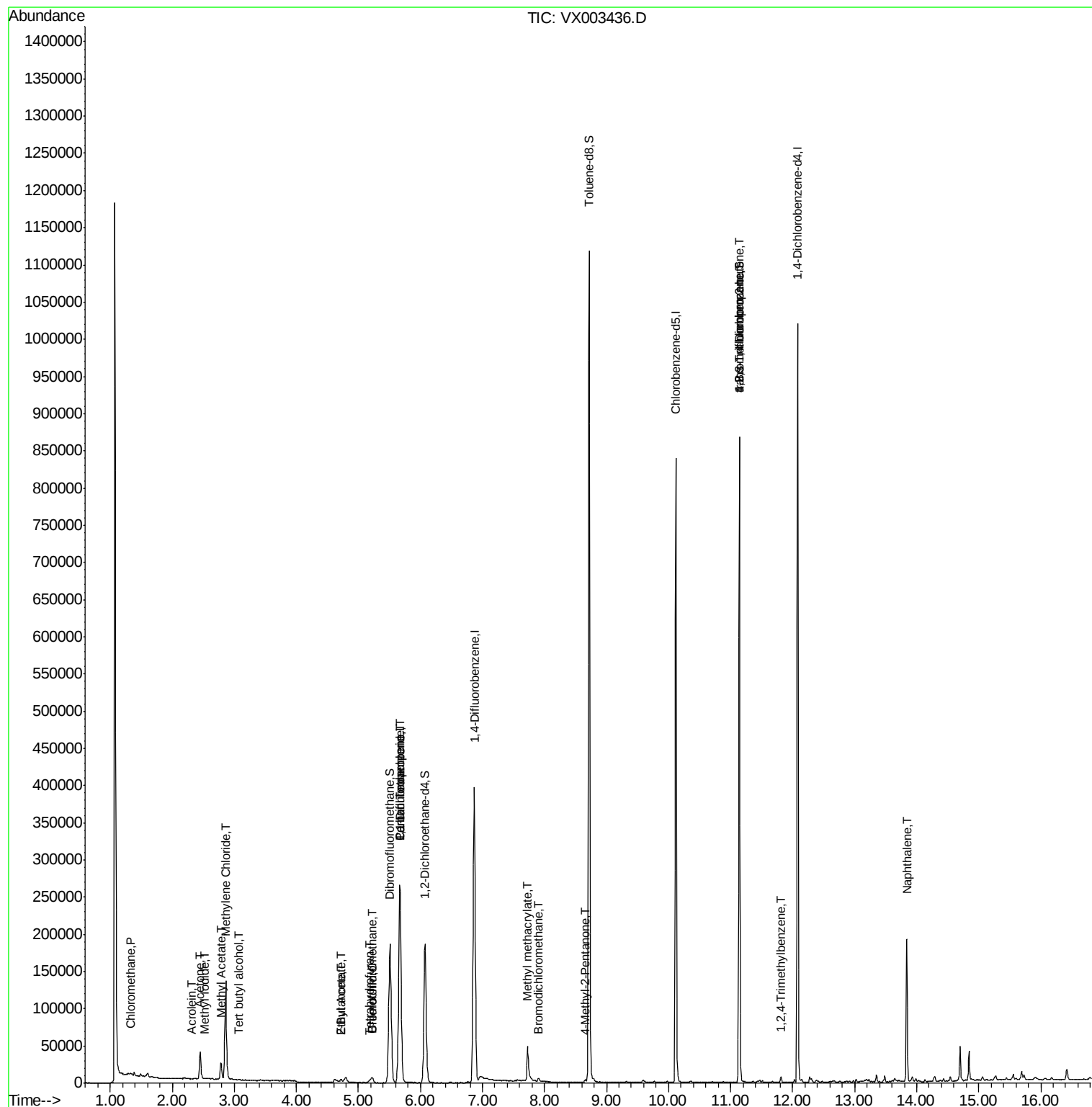
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	748	0.22	ug/l	# 84
5) Bromomethane	1.64	94	631	Below	Cal	94
6) Chloroethane	1.73	64	80	Below	Cal	# 43
10) Methyl Iodide	2.52	142	1139	0.34	ug/l	94
11) Tert butyl alcohol	3.07	59	2048	2.48	ug/l	# 89
13) Acrolein	2.31	56	115	0.29	ug/l	# 1
16) Acetone	2.45	43	40301	26.34	ug/l	# 88
18) Methyl Acetate	2.78	43	28678	5.75	ug/l	94
20) Methylene Chloride	2.86	84	61751	21.69	ug/l	96
25) 2-Butanone	4.72	43	6313	2.64	ug/l	95
28) Bromochloromethane	5.23	49	642	0.25	ug/l	# 13
29) Tetrahydrofuran	5.18	42	2454	1.62	ug/l	94
30) Chloroform	5.22	83	7535	1.38	ug/l	96
36) 1,1-Dichloropropene	5.67	75	17800	4.25	ug/l	# 50
37) Ethyl Acetate	4.72	43	6370	1.35	ug/l	# 70
38) Carbon Tetrachloride	5.67	117	24576	5.77	ug/l	# 16
47) Bromodichloromethane	7.90	83	2585	0.64	ug/l	97
48) Methyl methacrylate	7.73	41	1478	0.41	ug/l	# 17
51) 4-Methyl-2-Pentanone	8.66	43	2306	0.49	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	104081	24.98	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	104081	81.15	ug/l	# 6
84) 1,2,4-Trimethylbenzene	11.81	105	2589	0.21	ug/l	99
95) Naphthalene	13.84	128	127005	8.42	ug/l	100

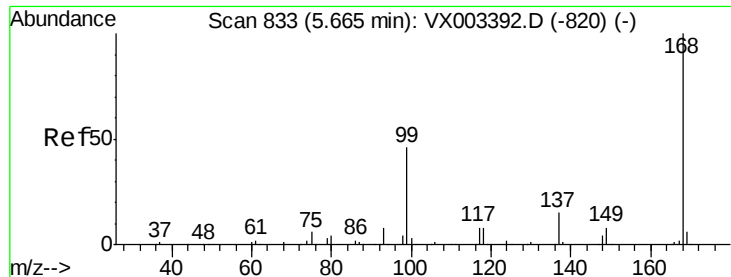
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 18 01:02:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 16 13:15:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

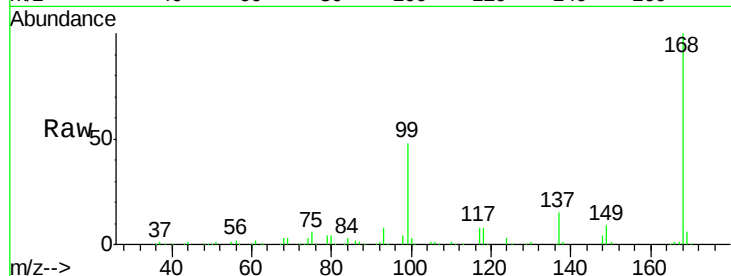
PL-01-071318-B

Tot Ion:168 Resp: 280945

Ion Ratio Lower Upper

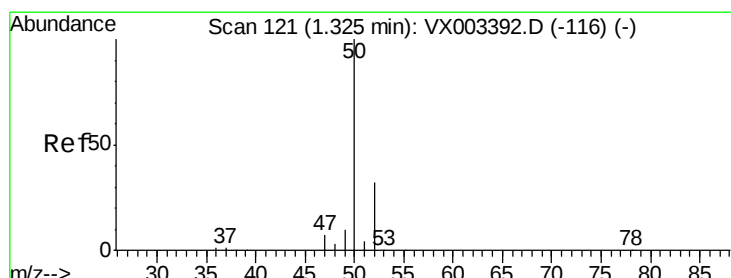
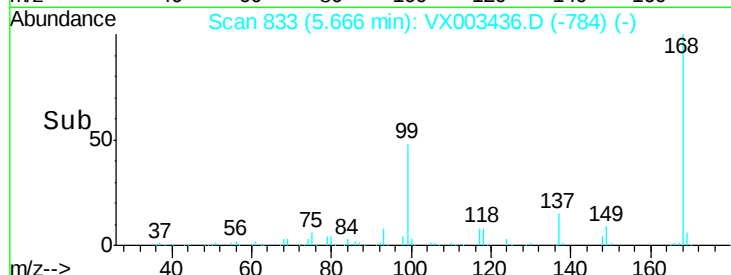
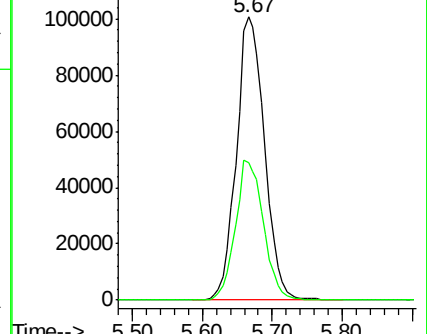
168 100

99 48.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003436.D

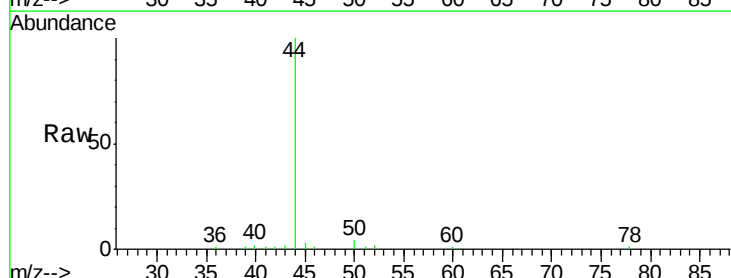
Acq: 17 Jul 2018 19:01

Tgt Ion: 50 Resp: 748

Ion Ratio Lower Upper

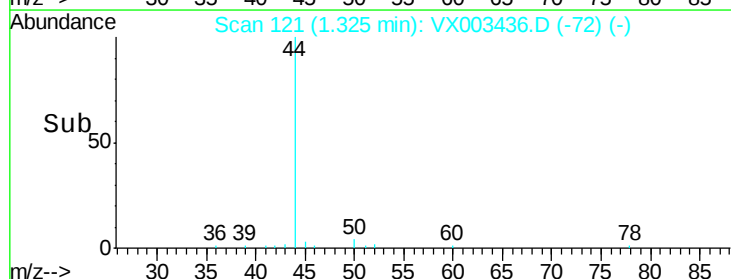
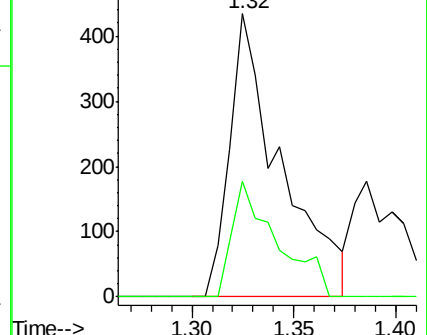
50 100

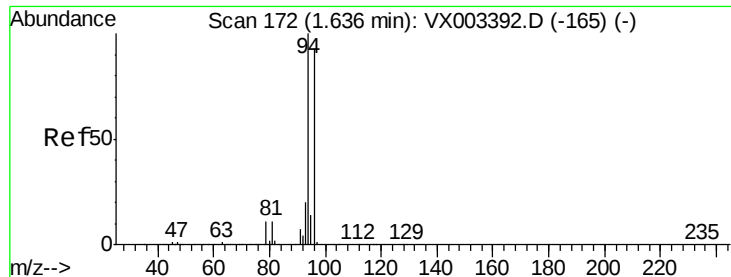
52 40.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

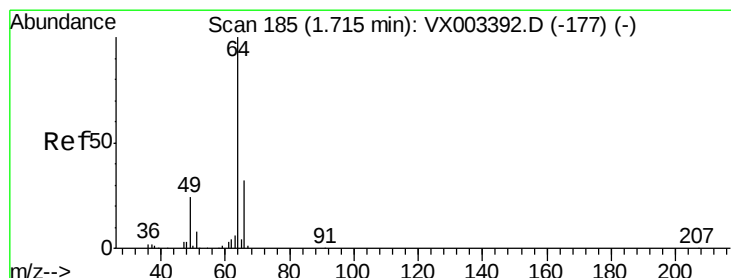
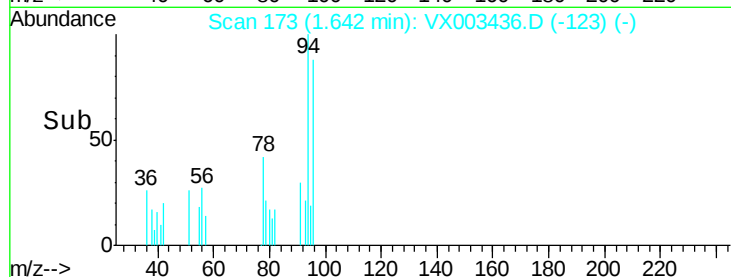
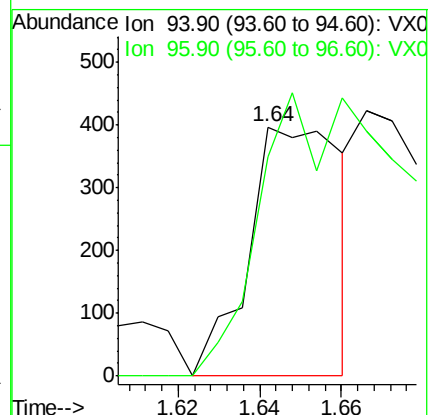
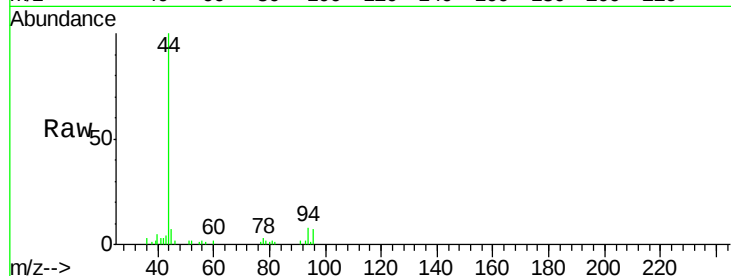
PL-01-071318-B

Tot Ion: 94 Resp: 631

Ion Ratio Lower Upper

94 100

96 88.2 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.02 min

Lab File: VX003436.D

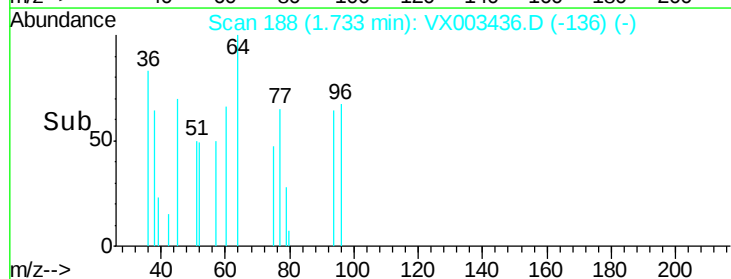
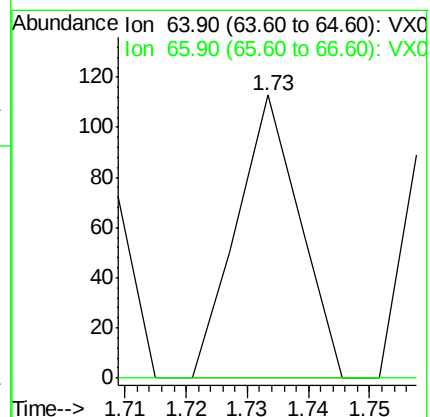
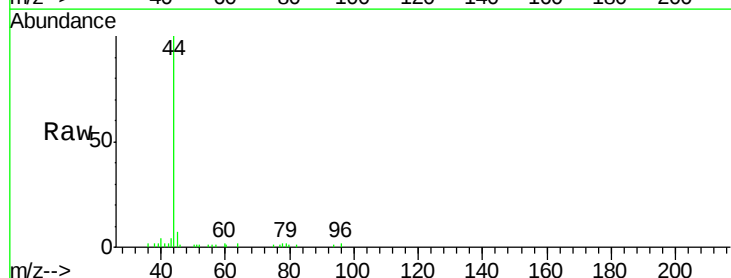
Acq: 17 Jul 2018 19:01

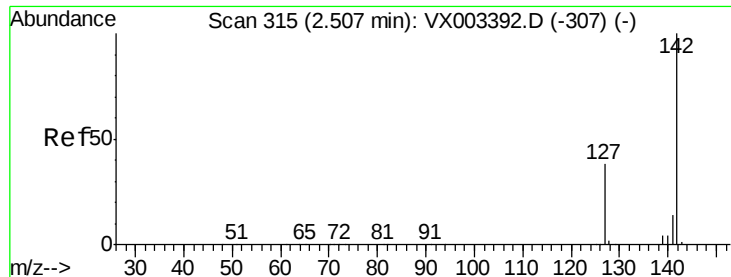
Tgt Ion: 64 Resp: 80

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

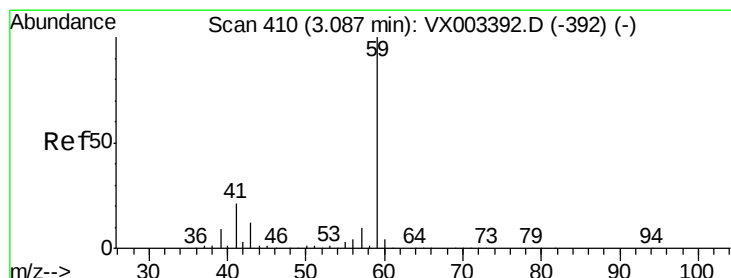
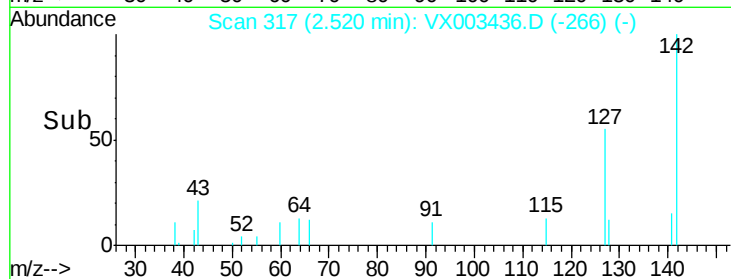
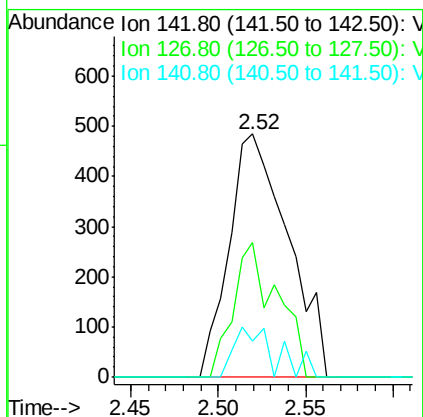
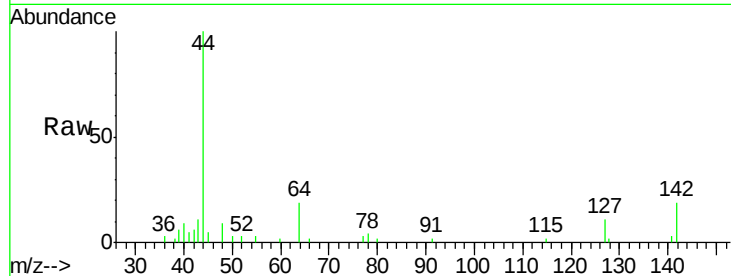




#10
Methyl Iodide
Concen: 0.34 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003436.D
Acq: 17 Jul 2018 19:01

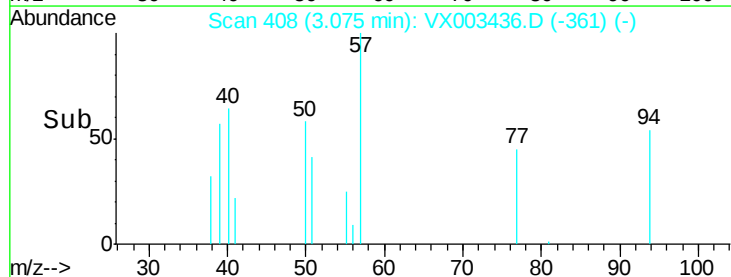
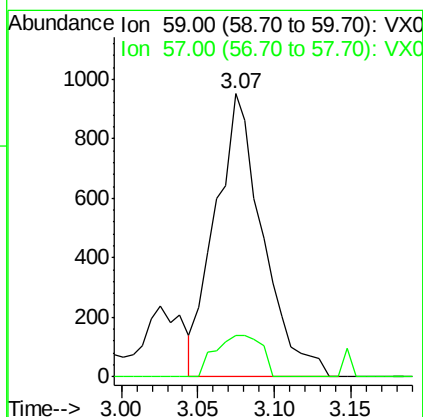
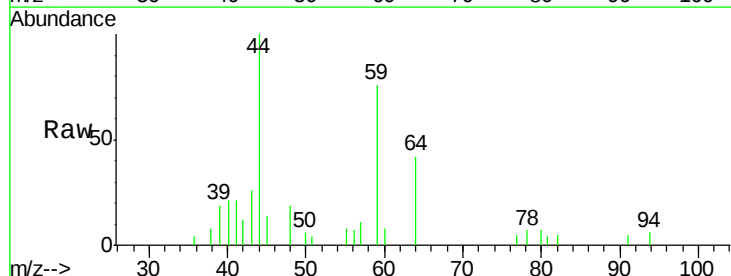
Instrument :
MSVOA_X
ClientSampleId :
PL-01-071318-B

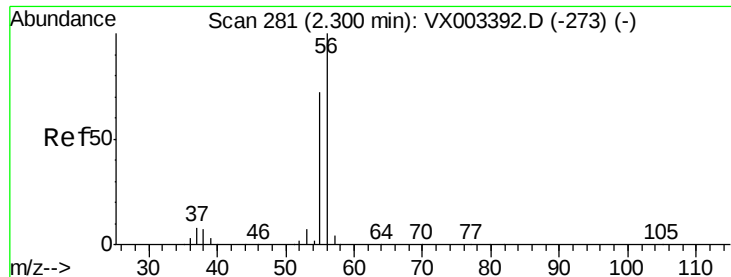
Tot Ion:142 Resp: 1139
Ion Ratio Lower Upper
142 100
127 41.1 36.6 55.0
141 14.4 11.3 16.9



#11
Tert butyl alcohol
Concen: 2.48 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003436.D
Acq: 17 Jul 2018 19:01

Tgt Ion: 59 Resp: 2048
Ion Ratio Lower Upper
59 100
57 14.3 8.2 12.2#





#13

Acrolein

Concen: 0.29 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampled :

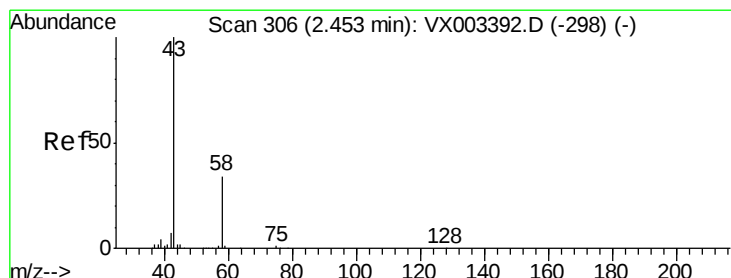
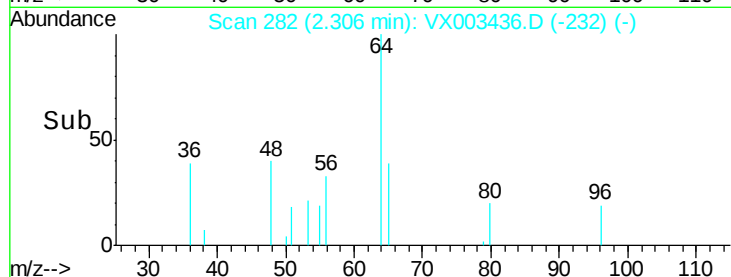
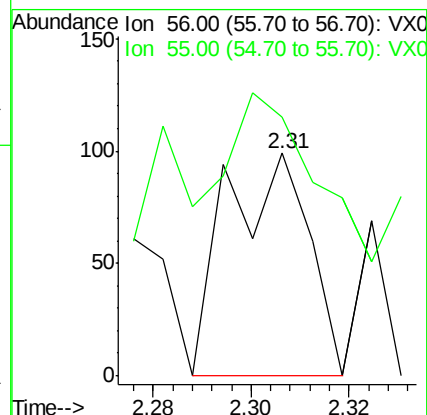
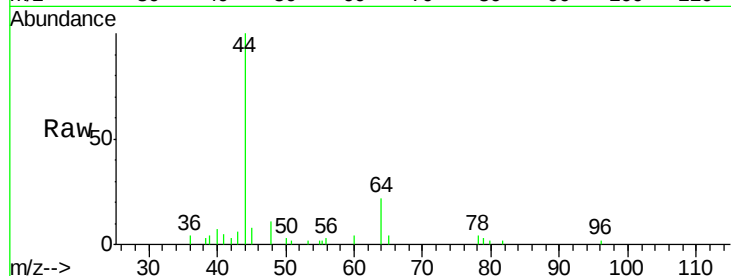
PL-01-071318-B

Tot Ion: 56 Resp: 115

Ion Ratio Lower Upper

56 100

55 277.4 57.0 85.4#



#16

Acetone

Concen: 26.34 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003436.D

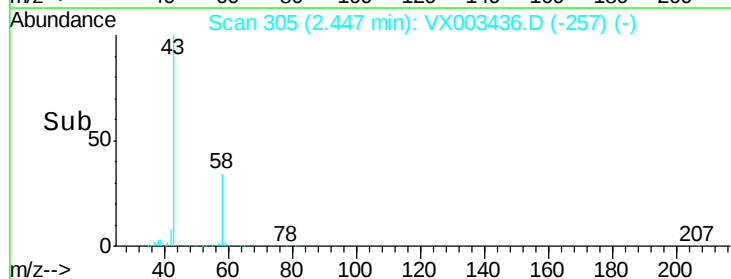
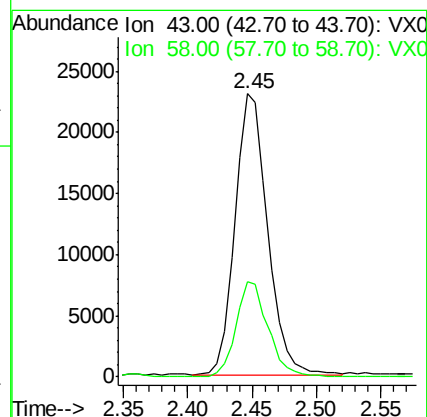
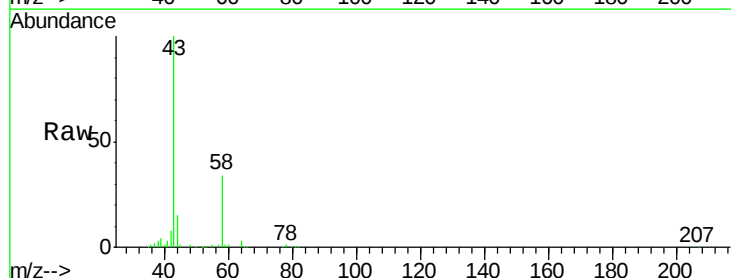
Acq: 17 Jul 2018 19:01

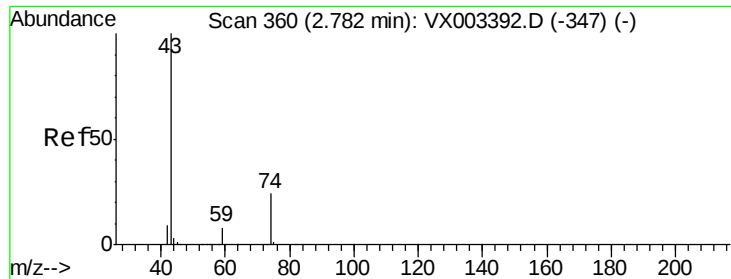
Tgt Ion: 43 Resp: 40301

Ion Ratio Lower Upper

43 100

58 34.1 22.1 33.1#

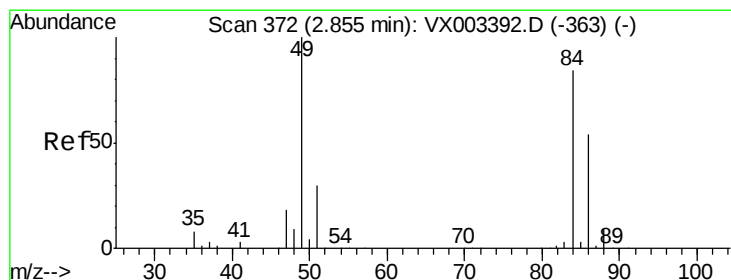
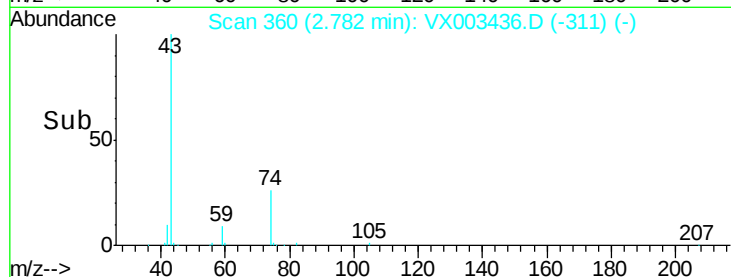
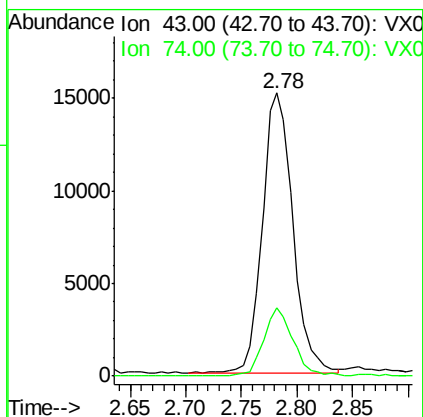
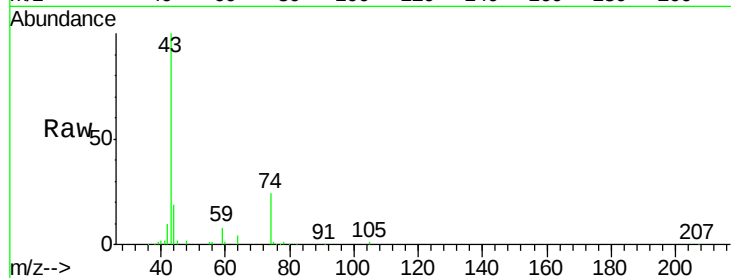




#18
Methvl Acetate
Concen: 5.75 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003436.D
Acq: 17 Jul 2018 19:01

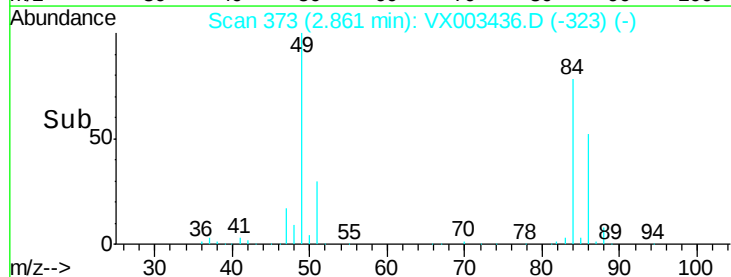
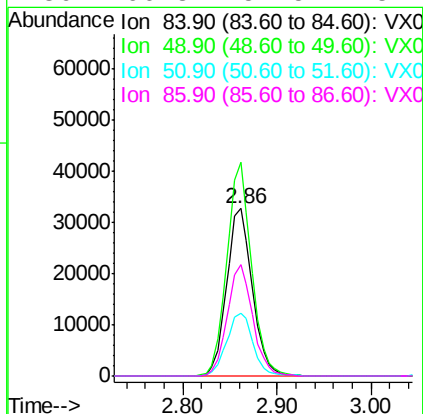
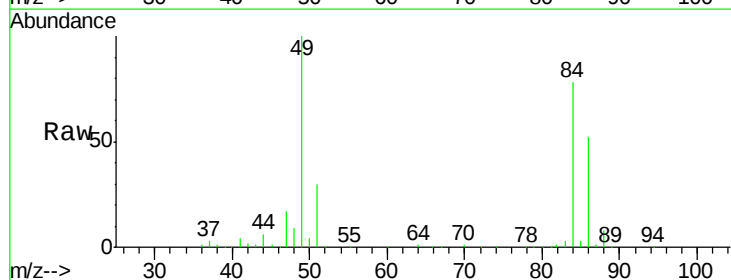
Instrument :
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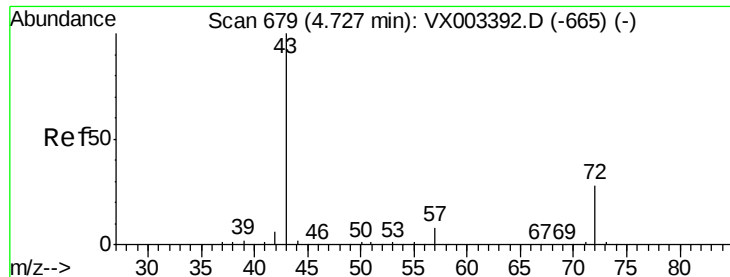
Tot Ion: 43 Resp: 28678
Ion Ratio Lower Upper
43 100
74 23.9 16.7 25.1



#20
Methylene Chloride
Concen: 21.69 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003436.D
Acq: 17 Jul 2018 19:01

Tgt Ion: 84 Resp: 61751
Ion Ratio Lower Upper
84 100
49 127.7 107.8 161.6
51 37.8 32.8 49.2
86 66.3 52.5 78.7





#25

2-Butanone

Concen: 2.64 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.01 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

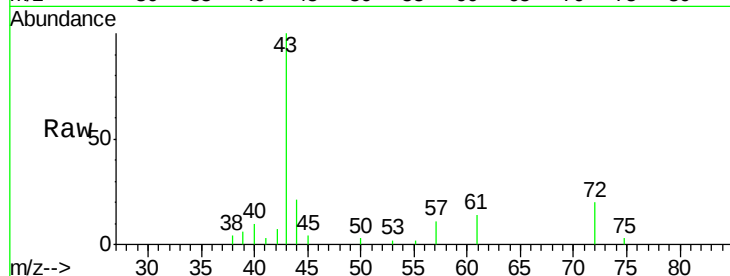
PL-01-071318-B

Tot Ion: 43 Resp: 6313

Ion Ratio Lower Upper

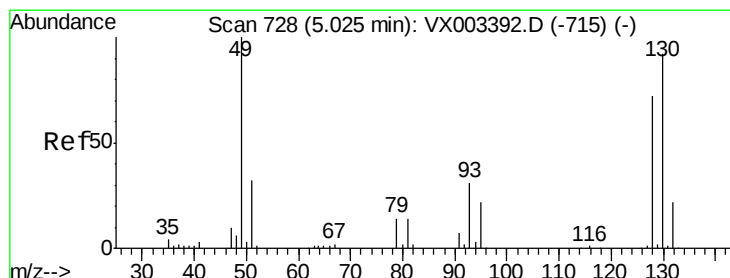
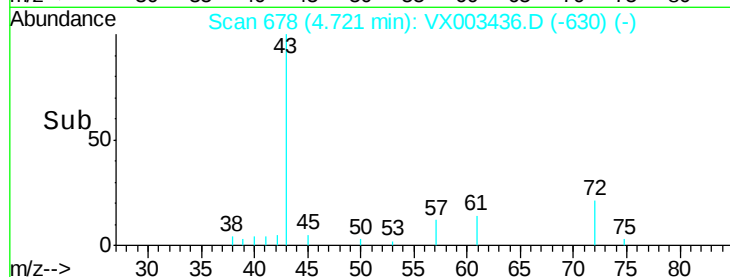
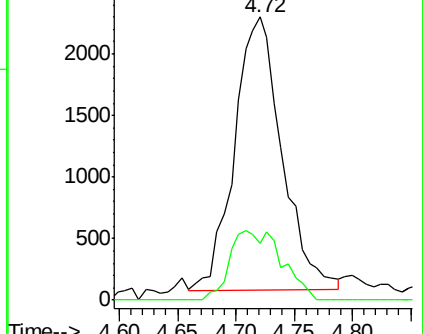
43 100

72 20.9 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: 0.25 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.20 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

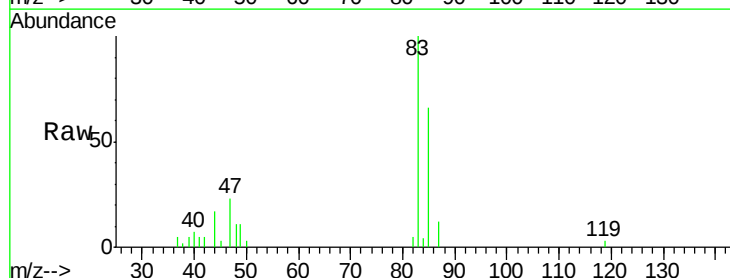
Tgt Ion: 49 Resp: 642

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

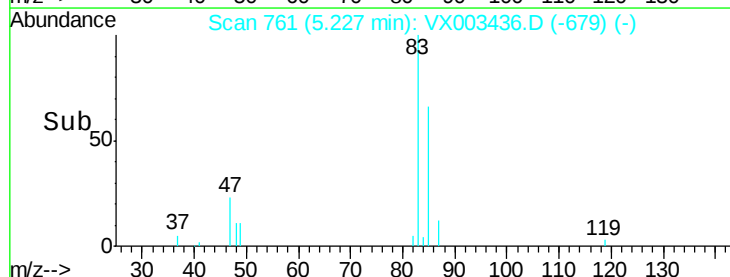
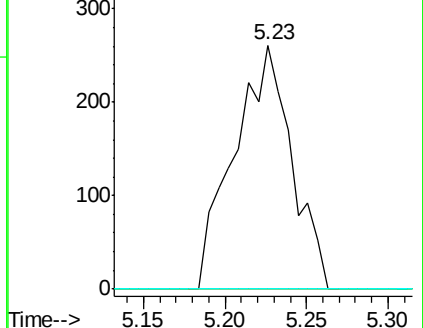
130 0.0 61.2 91.8#

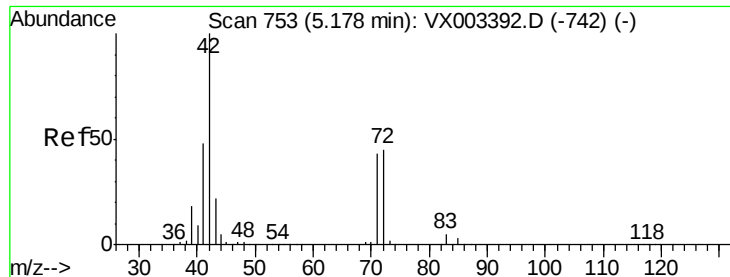


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 1.62 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

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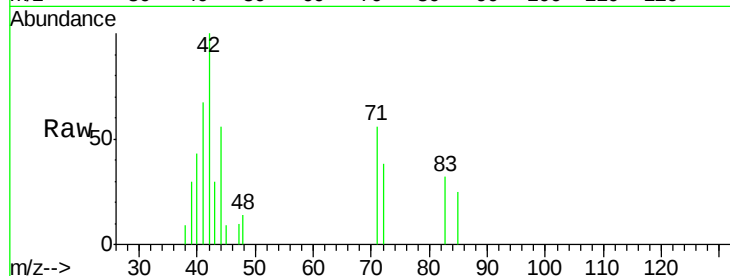
Tot Ion: 42 Resp: 2454

Ion Ratio Lower Upper

42 100

72 44.1 32.0 48.0

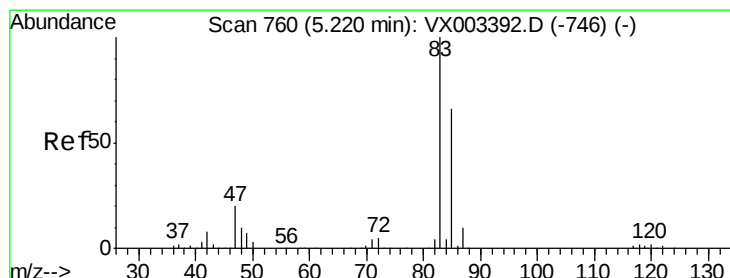
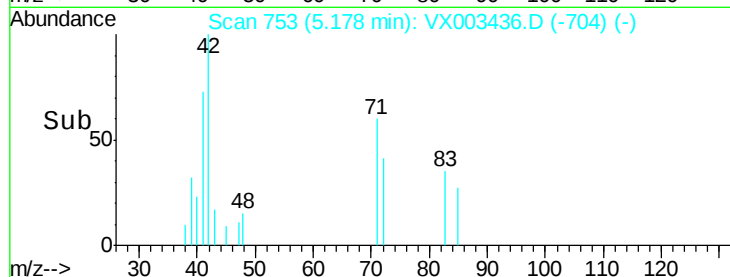
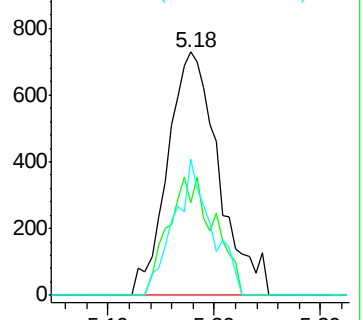
71 41.0 30.1 45.1



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



#30

Chloroform

Concen: 1.38 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX003436.D

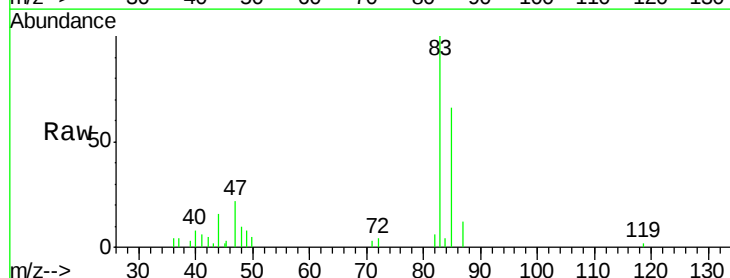
Acq: 17 Jul 2018 19:01

Tgt Ion: 83 Resp: 7535

Ion Ratio Lower Upper

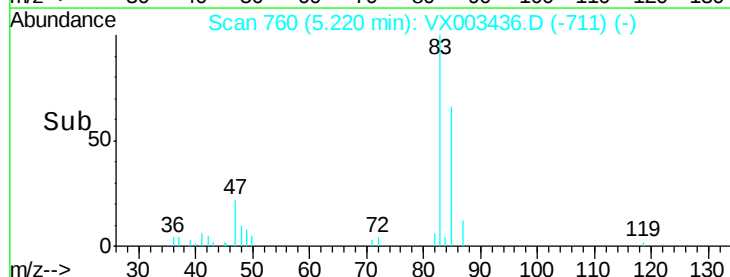
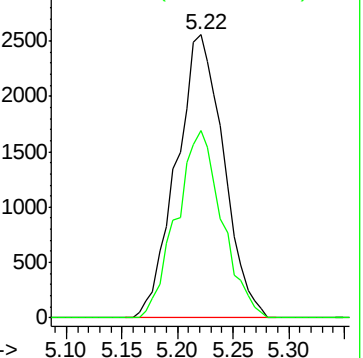
83 100

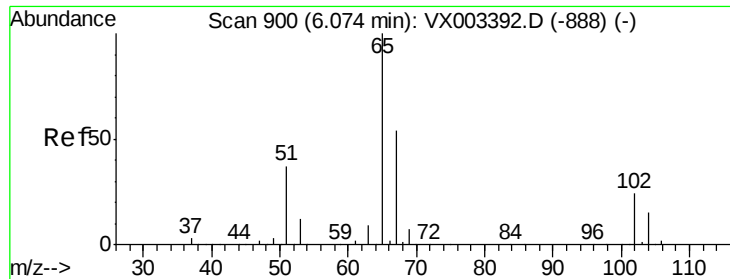
85 66.1 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.49 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

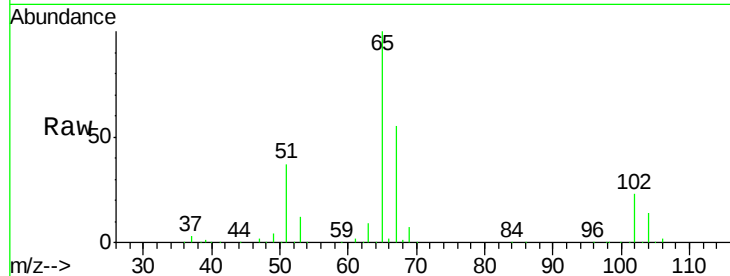
PL-01-071318-B

Tot Ion: 65 Resp: 174733

Ion Ratio Lower Upper

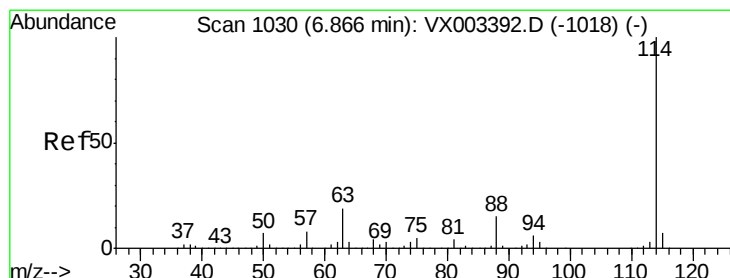
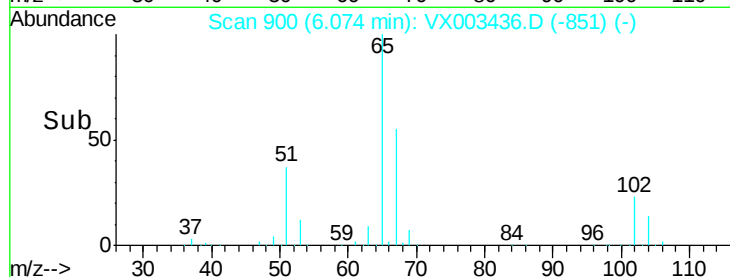
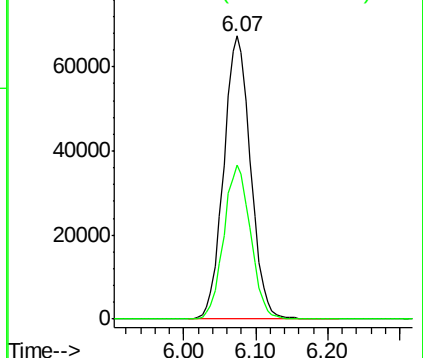
65 100

67 54.4 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: VX003436.D

Acq: 17 Jul 2018 19:01

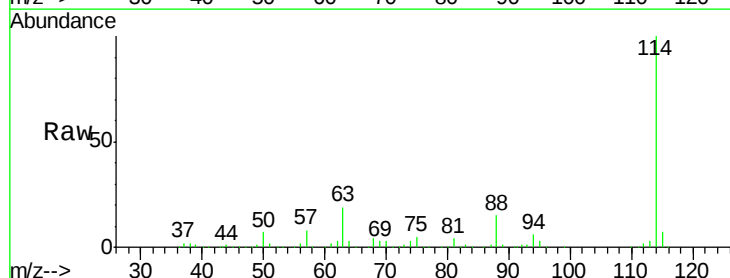
Tgt Ion: 114 Resp: 413516

Ion Ratio Lower Upper

114 100

63 19.0 0.0 41.4

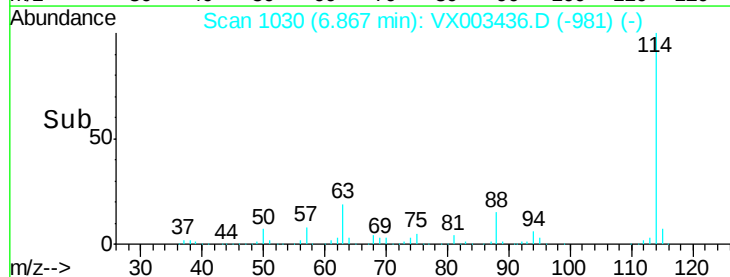
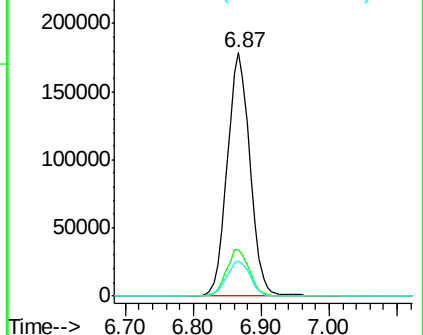
88 14.6 0.0 30.0

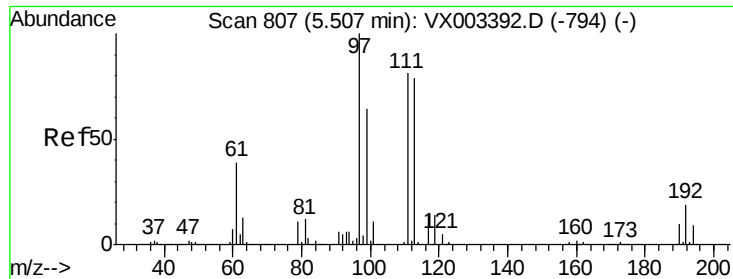


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

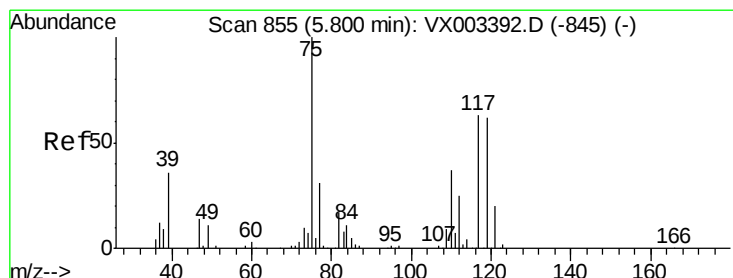
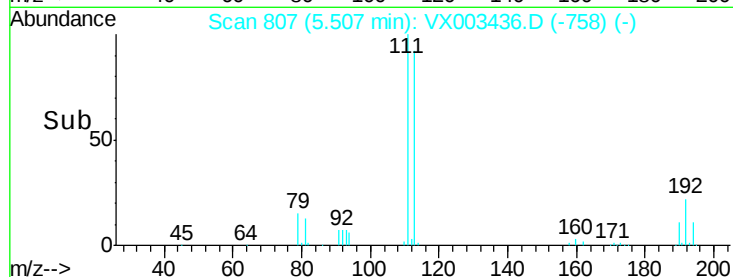
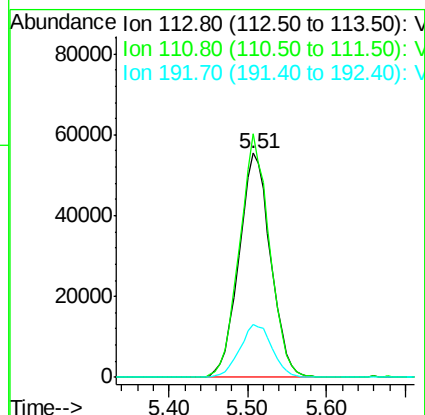
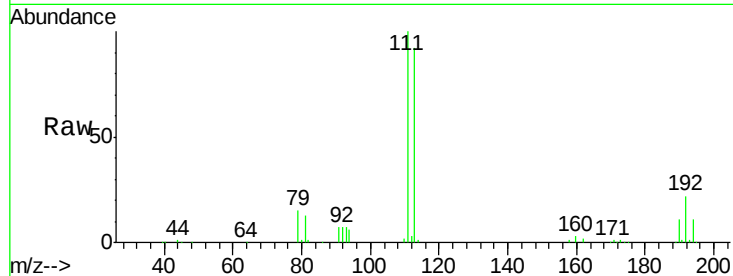




#35
 Dibromofluoromethane
 Concen: 46.21 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX003436.D
 Acq: 17 Jul 2018 19:01

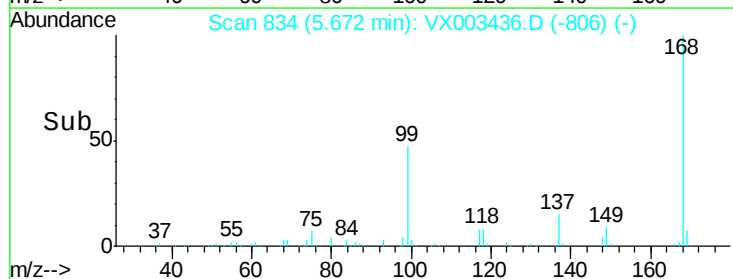
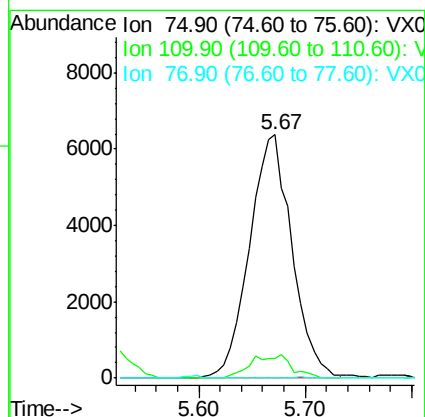
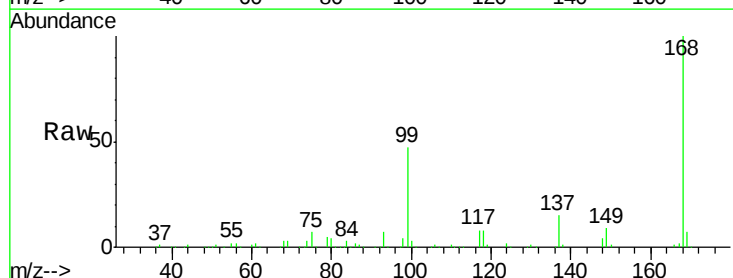
Instrument :
 MSVOA_X
 ClientSampleId :
 PL-01-071318-B

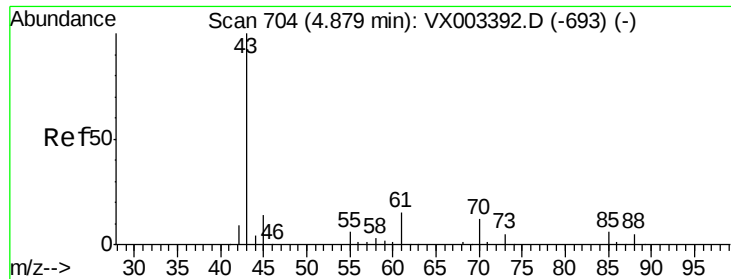
Tot Ion:113 Resp: 154619
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.4 122.0
 192 24.2 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.25 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX003436.D
 Acq: 17 Jul 2018 19:01

Tgt Ion: 75 Resp: 17800
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.1 54.4#
 77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 1.35 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.16 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

PL-01-071318-B

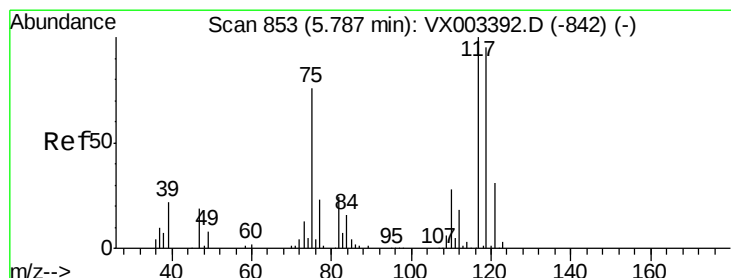
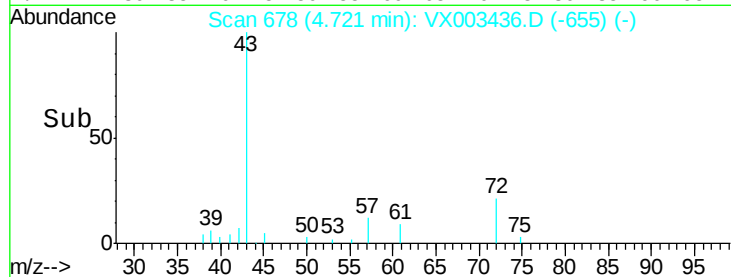
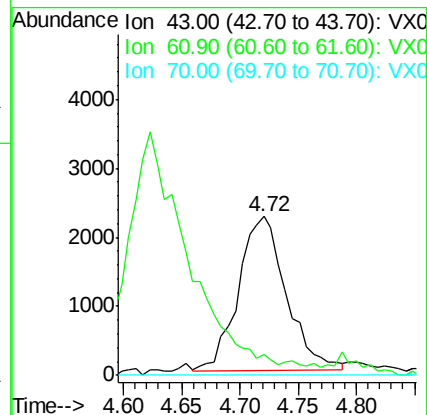
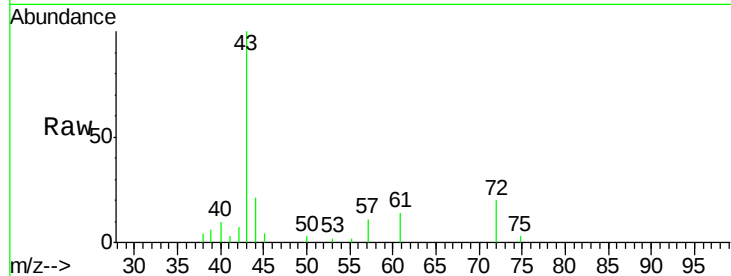
Tot Ion: 43 Resp: 6370

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

70 0.0 7.6 11.4#



#38

Carbon Tetrachloride

Concen: 5.77 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

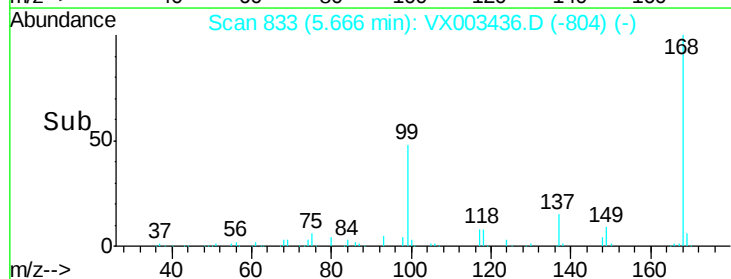
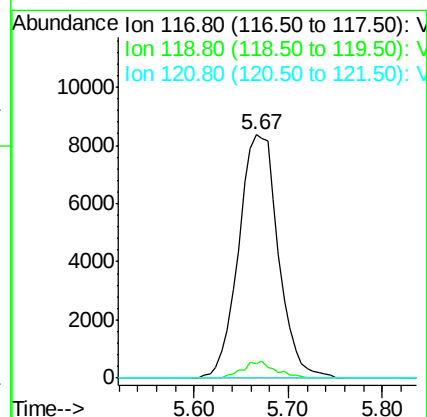
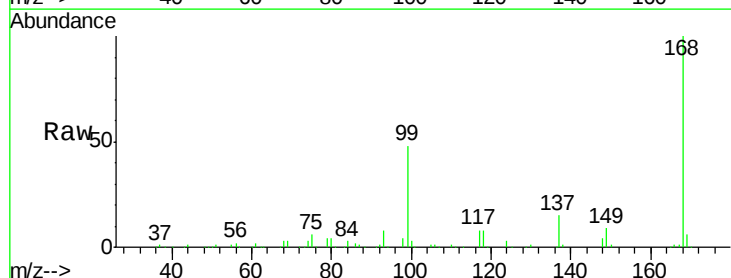
Tgt Ion: 117 Resp: 24576

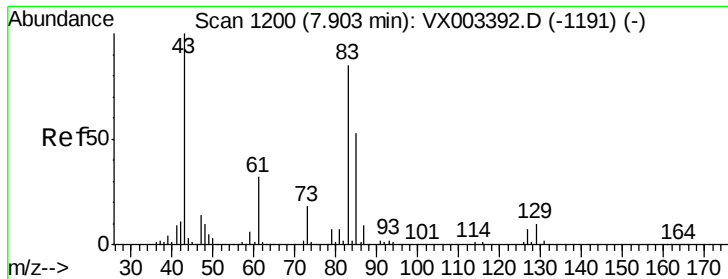
Ion Ratio Lower Upper

117 100

119 5.8 77.4 116.0#

121 0.0 24.4 36.6#





#47

Bromodichloromethane

Concen: 0.64 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

PL-01-071318-B

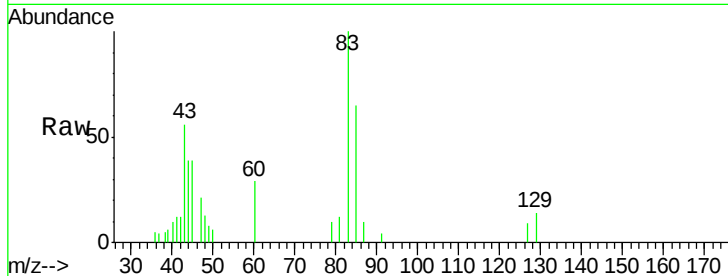
Tot Ion: 83 Resp: 2585

Ion Ratio Lower Upper

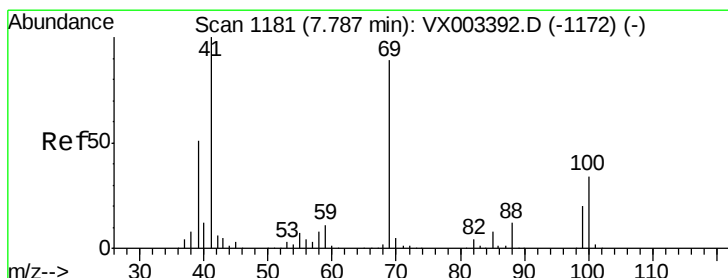
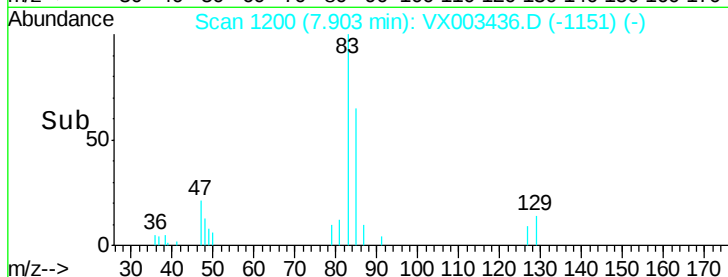
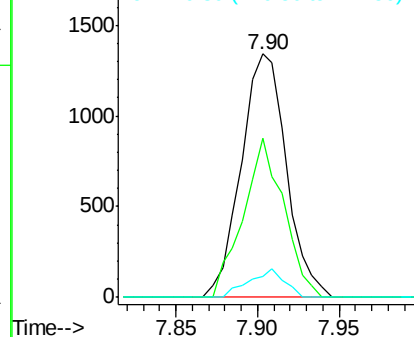
83 100

85 65.2 50.3 75.5

127 8.8 7.0 10.4



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



#48

Methyl methacrylate

Concen: 0.41 ug/l

RT: 7.73 min Scan# 1171

Delta R.T. -0.06 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

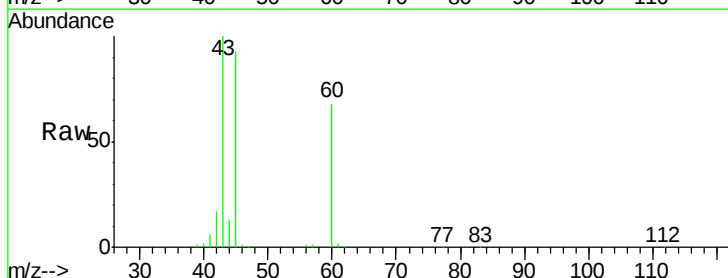
Tgt Ion: 41 Resp: 1478

Ion Ratio Lower Upper

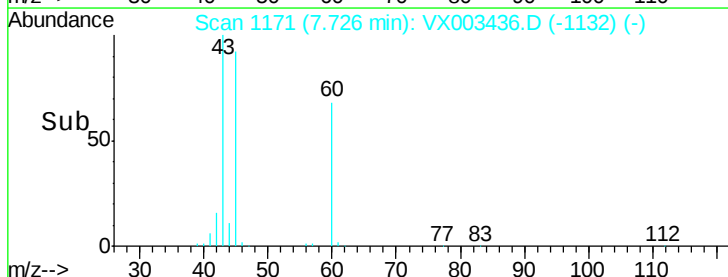
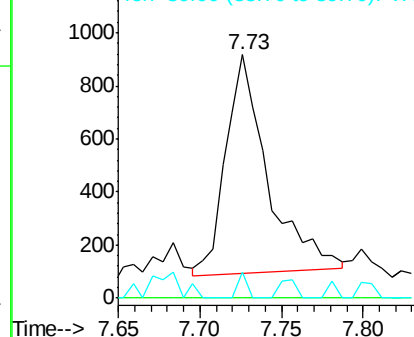
41 100

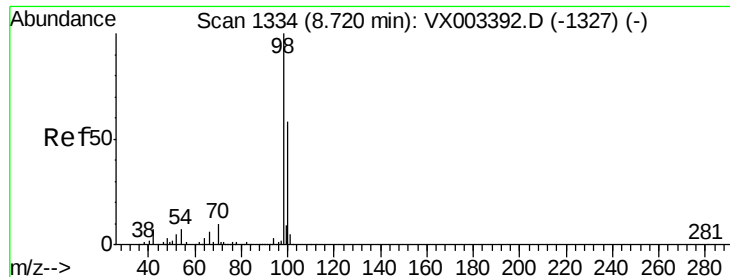
69 0.0 59.1 88.7#

39 2.4 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 54.94 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

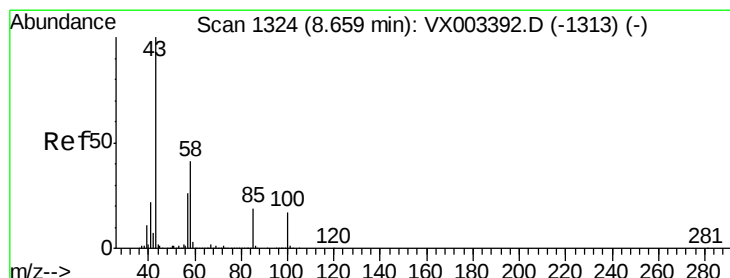
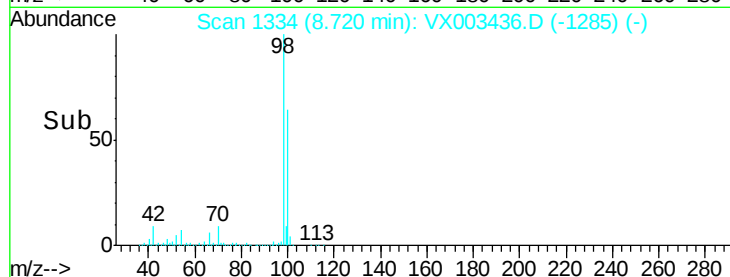
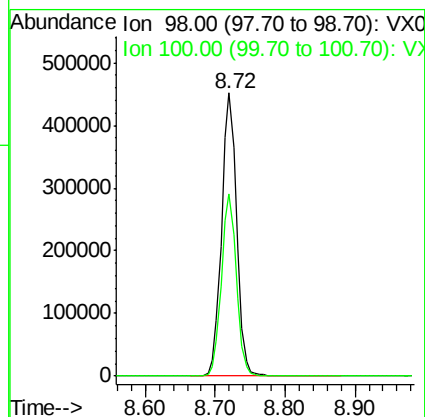
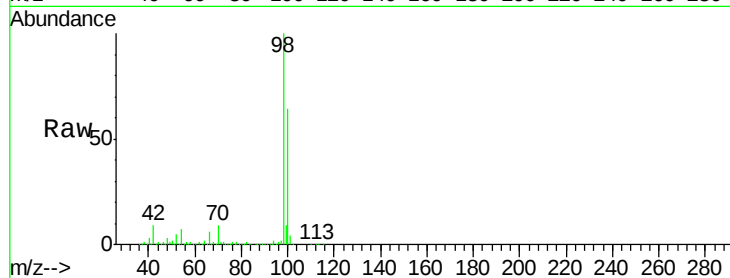
PL-01-071318-B

Tot Ion: 98 Resp: 678294

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.49 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX003436.D

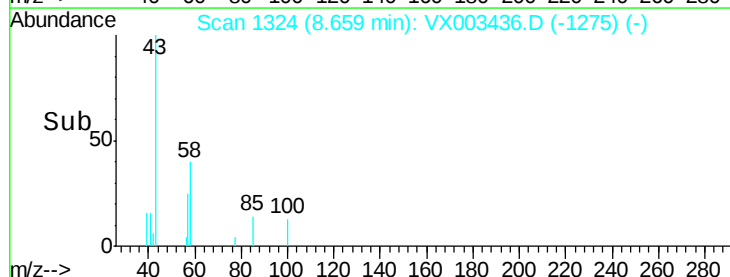
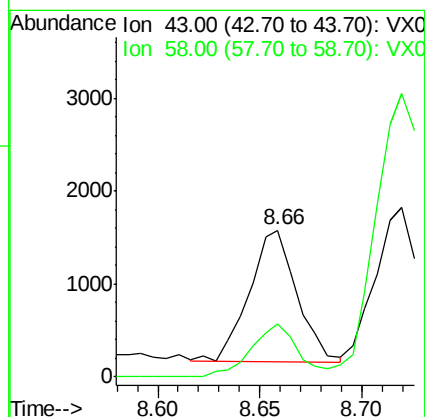
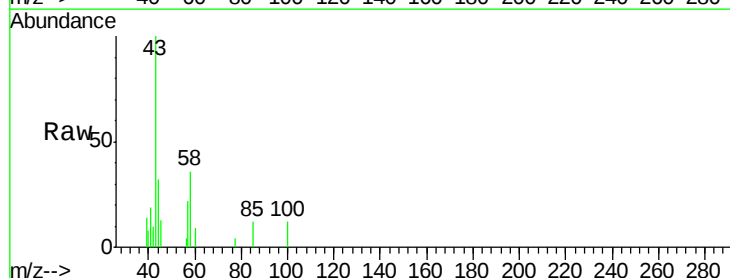
Acq: 17 Jul 2018 19:01

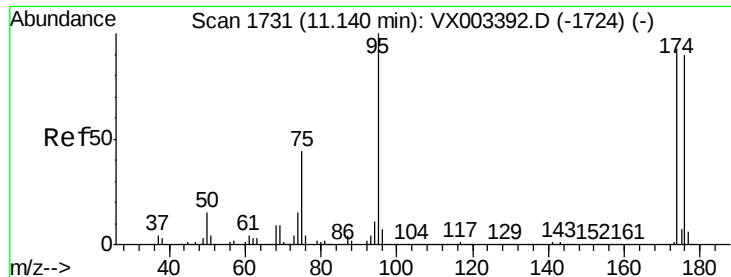
Tgt Ion: 43 Resp: 2306

Ion Ratio Lower Upper

43 100

58 39.4 28.6 42.8

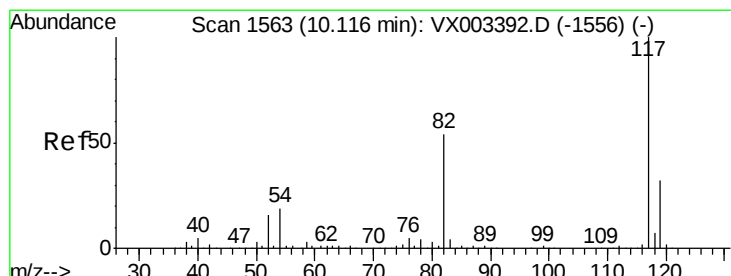
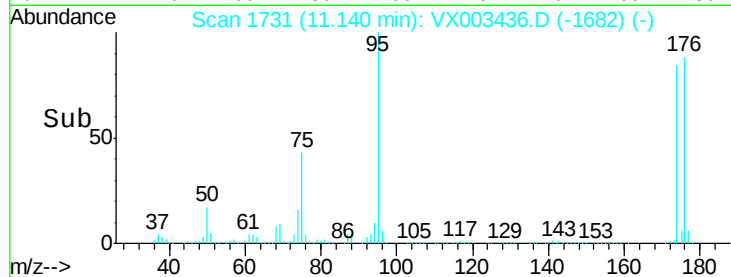
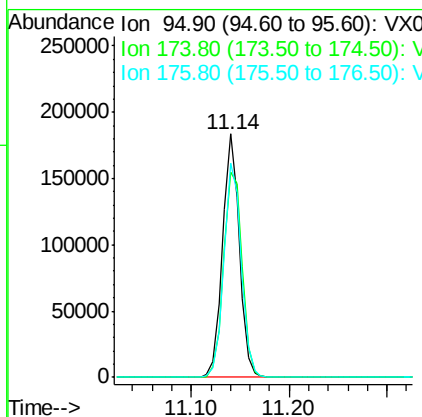
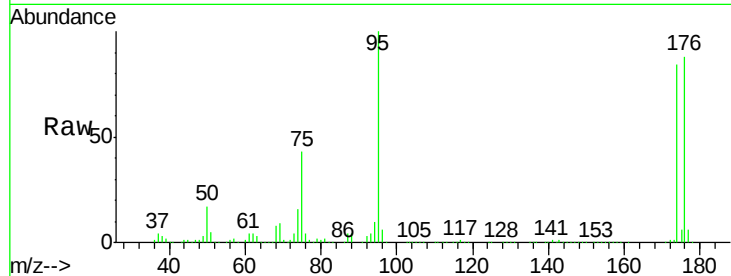




#62
4-Bromofluorobenzene
Concen: 49.52 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003436.D
Acq: 17 Jul 2018 19:01

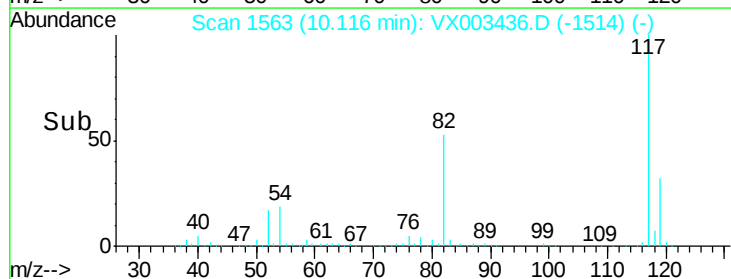
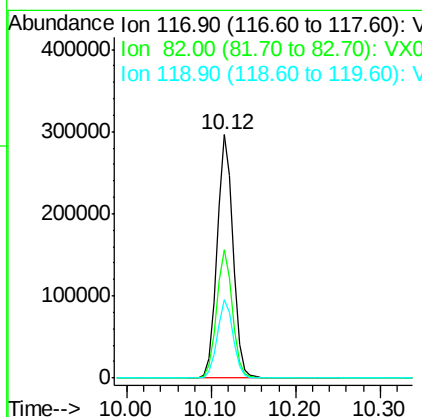
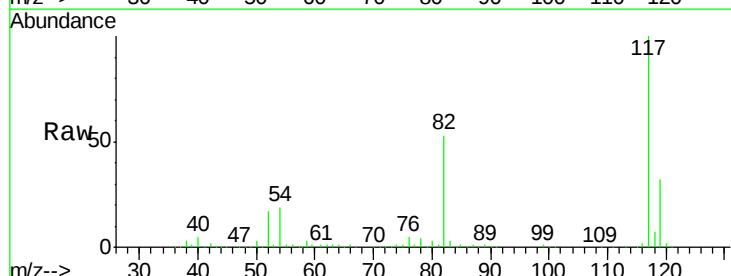
Instrument :
MSVOA_X
ClientSampleId :
PL-01-071318-B

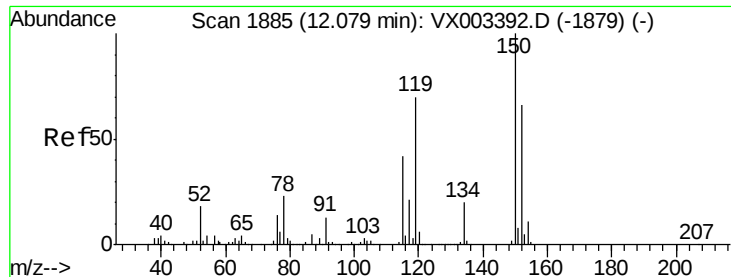
Tot Ion	95	Resp	218281
Ion Ratio	Lower	Upper	
95	100		
174	93.5	0.0	187.4
176	90.9	0.0	181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003436.D
Acq: 17 Jul 2018 19:01

Tgt Ion	117	Resp	388775
Ion Ratio	Lower	Upper	
117	100		
82	52.9	45.0	67.4
119	32.2	25.8	38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

PL-01-071318-B

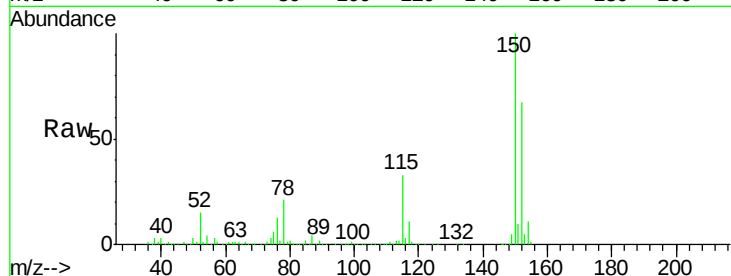
Tot Ion:152 Resp: 230171

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

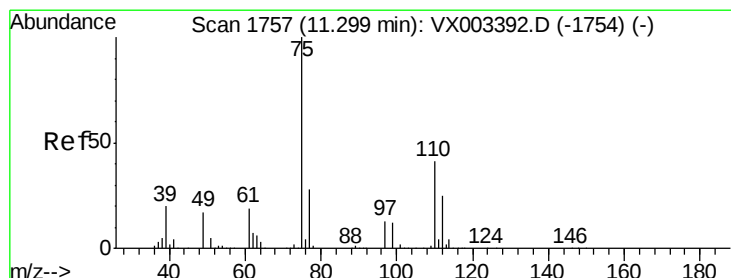
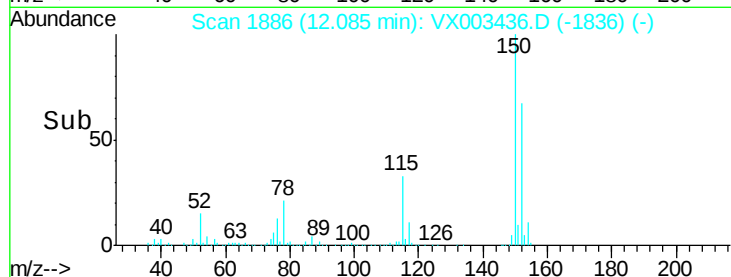
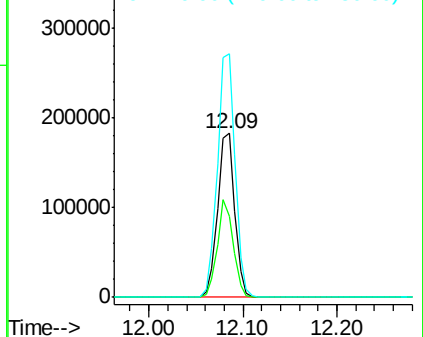
150 153.7 0.0 347.2



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: 24.98 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003436.D

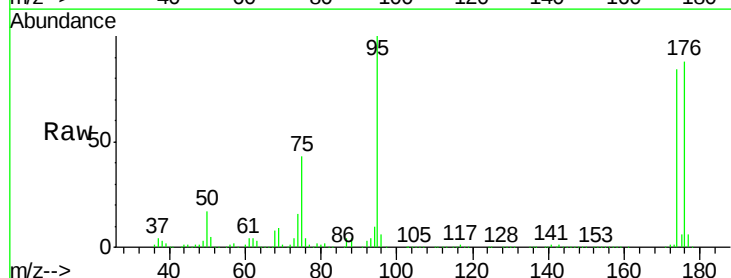
Acq: 17 Jul 2018 19:01

Tgt Ion: 75 Resp: 104081

Ion Ratio Lower Upper

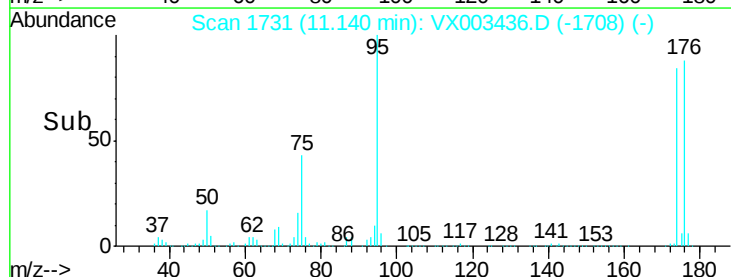
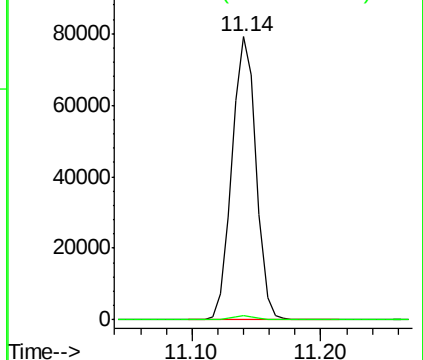
75 100

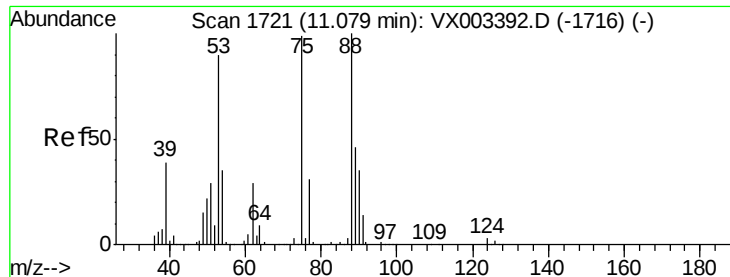
77 1.3 22.8 68.3#



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: 81.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

PL-01-071318-B

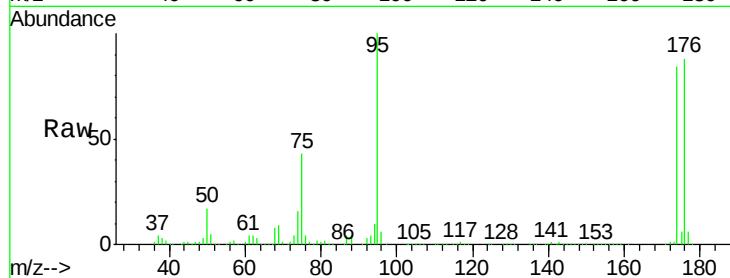
Tot Ion: 75 Resp: 104081

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

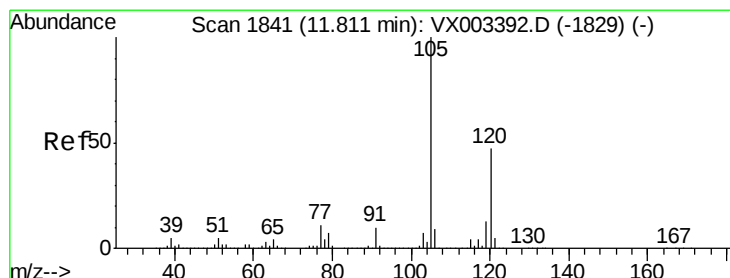
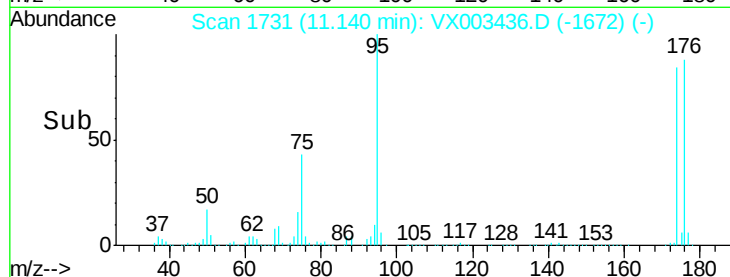
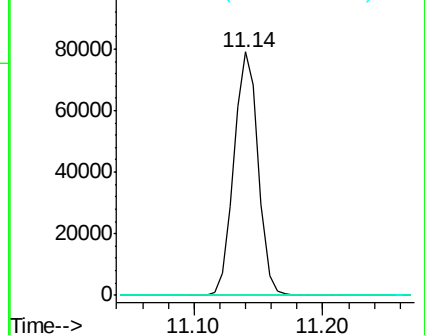
89 0.0 38.2 57.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.21 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX003436.D

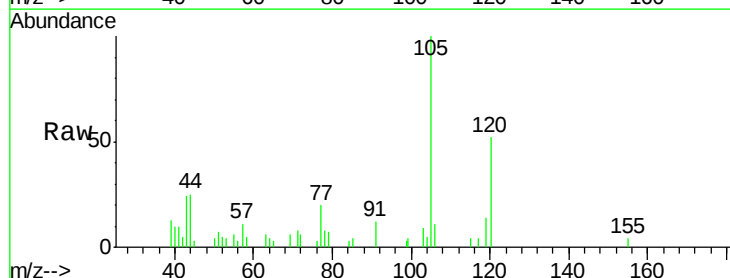
Acq: 17 Jul 2018 19:01

Tgt Ion: 105 Resp: 2589

Ion Ratio Lower Upper

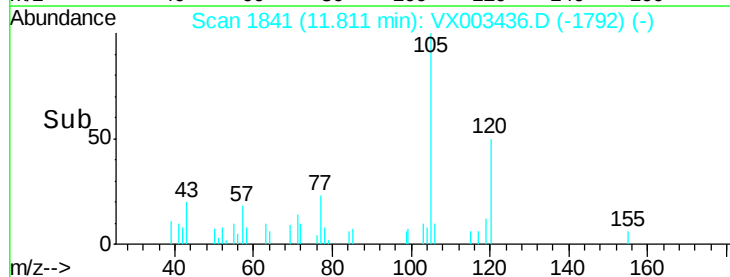
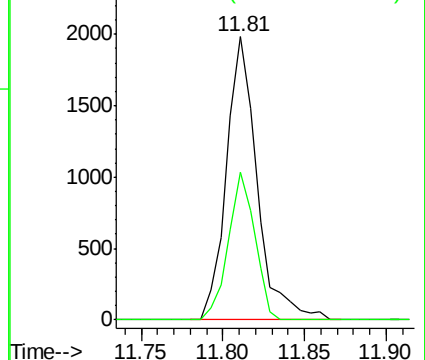
105 100

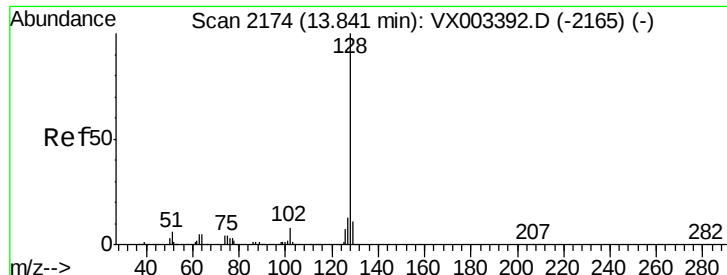
120 45.0 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 8.42 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX003436.D

Acq: 17 Jul 2018 19:01

Instrument :

MSVOA_X

ClientSampleId :

PL-01-071318-B

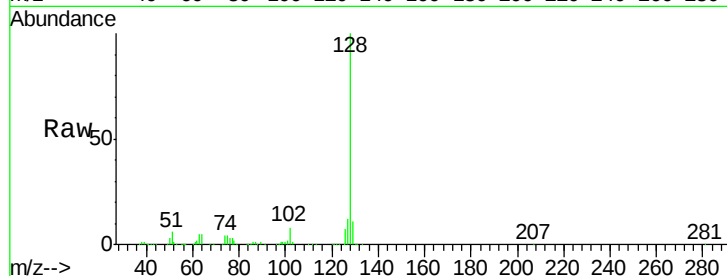
Tot Ion:128 Resp: 127005

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 10.6 8.6 13.0



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

