

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071818\
 Data File : VX003450.D
 Acq On : 18 Jul 2018 16:28
 Operator : JC/MD
 Sample : J4012-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 01:42:07 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	266333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	408410	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	377606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	217219	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	182411	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
35) Dibromofluoromethane	5.51	113	152460	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	
50) Toluene-d8	8.72	98	576314	47.26	ug/l	0.00
Spiked Amount			Recovery	=	94.52%	
62) 4-Bromofluorobenzene	11.14	95	197653	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	

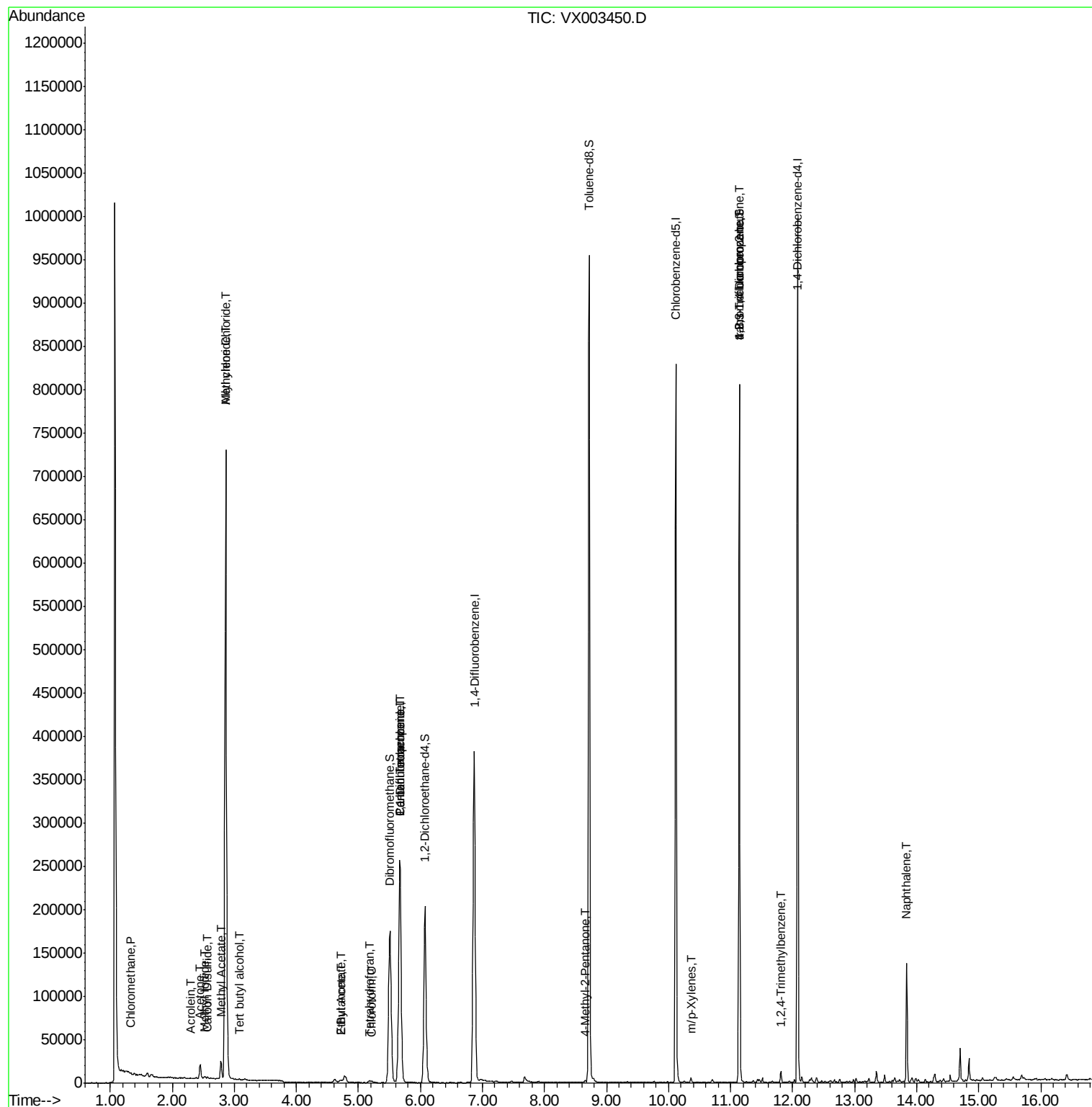
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	789	0.24	ug/l	# 62
5) Bromomethane	1.65	94	2442	Below	Cal	# 89
6) Chloroethane	1.68	64	92	Below	Cal	# 18
10) Methyl Iodide	2.53	142	2983	0.94	ug/l	# 93
11) Tert butyl alcohol	3.08	59	1294	1.65	ug/l	# 80
13) Acrolein	2.30	56	155	0.41	ug/l	# 14
14) Allyl chloride	2.86	41	14353	2.82	ug/l	# 24
16) Acetone	2.45	43	18004	12.41	ug/l	# 96
17) Carbon Disulfide	2.57	76	1918	0.25	ug/l	# 87
18) Methyl Acetate	2.78	43	24480	5.18	ug/l	# 96
20) Methylene Chloride	2.86	84	353469	120.23	ug/l	# 90
25) 2-Butanone	4.71	43	5491	2.42	ug/l	# 80
29) Tetrahydrofuran	5.18	42	2091	1.45	ug/l	# 69
30) Chloroform	5.21	83	1290	0.25	ug/l	# 94
36) 1,1-Dichloropropene	5.67	75	17758	4.29	ug/l	# 46
37) Ethyl Acetate	4.71	43	5491	1.18	ug/l	# 70
38) Carbon Tetrachloride	5.67	117	23905	5.68	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.66	43	1673	0.36	ug/l	# 100
68) m/p-Xylenes	10.36	106	1290	0.23	ug/l	# 94
76) 1,2,3-Trichloropropane	11.14	75	96497	24.54	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	96497	79.72	ug/l	# 7
84) 1,2,4-Trimethylbenzene	11.81	105	5483	0.47	ug/l	# 92
95) Naphthalene	13.83	128	89111	6.26	ug/l	# 99

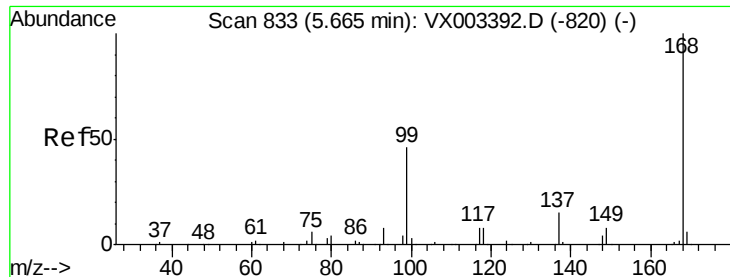
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071818\
Data File : VX003450.D
Acq On : 18 Jul 2018 16:28
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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jul 19 01:42:07 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: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

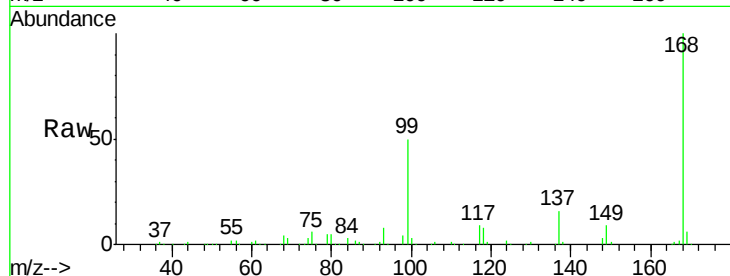
ClientSampleId :

Tot Ion:168 Resp: 266333

Ion Ratio Lower Upper

168 100

99 50.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

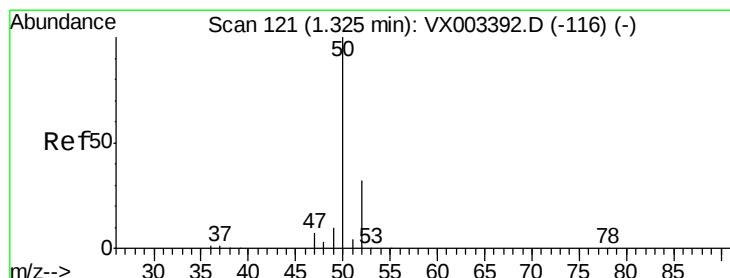
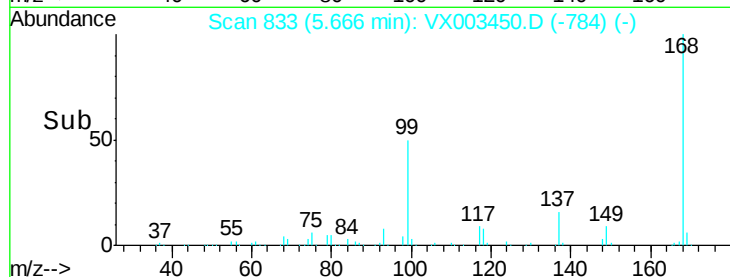
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003450.D

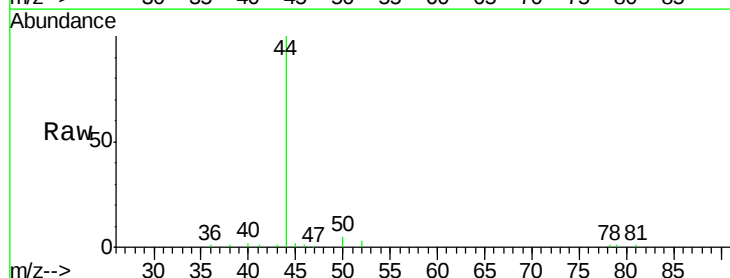
Acq: 18 Jul 2018 16:28

Tgt Ion: 50 Resp: 789

Ion Ratio Lower Upper

50 100

52 53.4 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

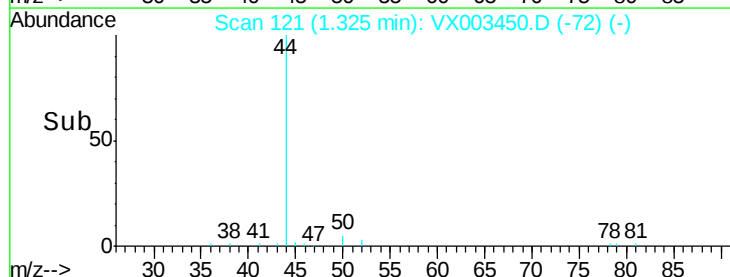
300

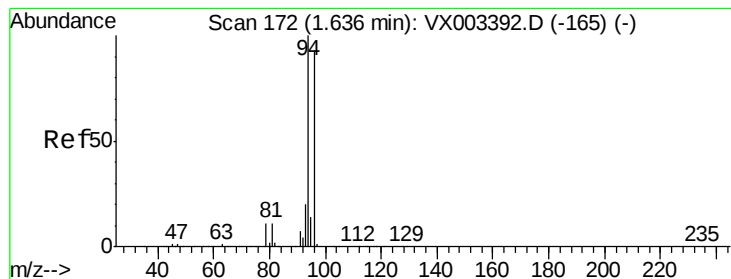
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

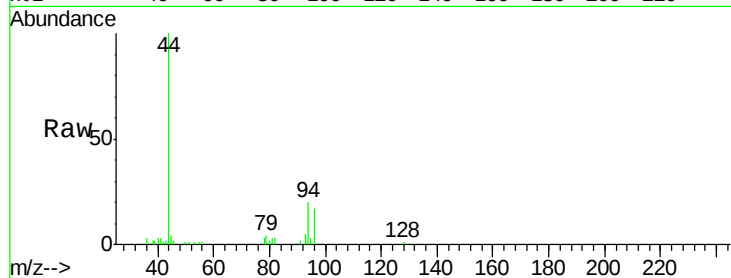
ClientSampled :

Tot Ion: 94 Resp: 2442

Ion Ratio Lower Upper

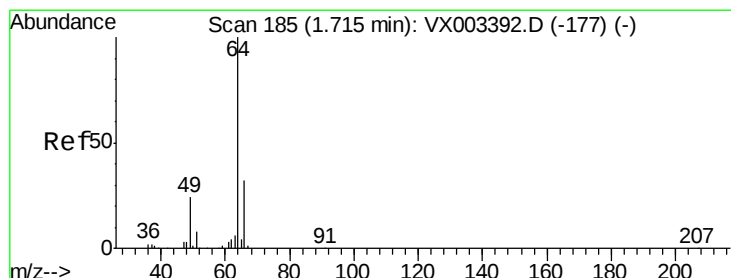
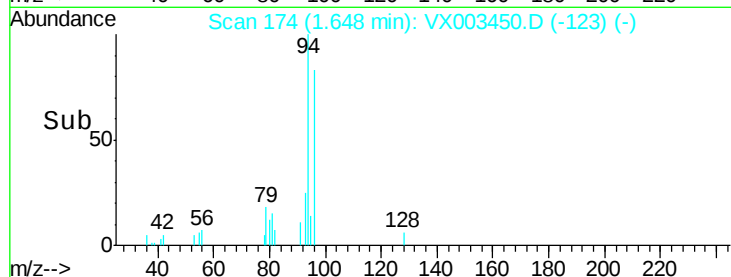
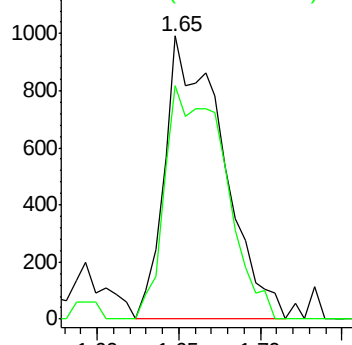
94 100

96 82.6 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: Below Cal

RT: 1.68 min Scan# 180

Delta R.T. -0.03 min

Lab File: VX003450.D

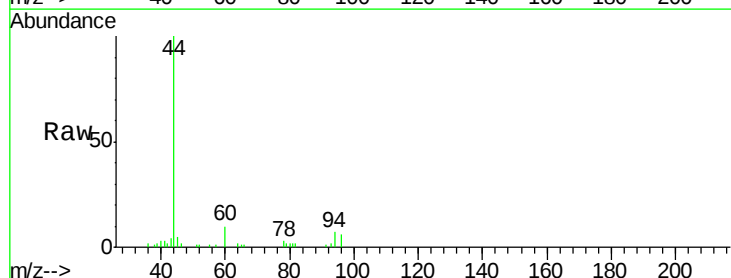
Acq: 18 Jul 2018 16:28

Tgt Ion: 64 Resp: 92

Ion Ratio Lower Upper

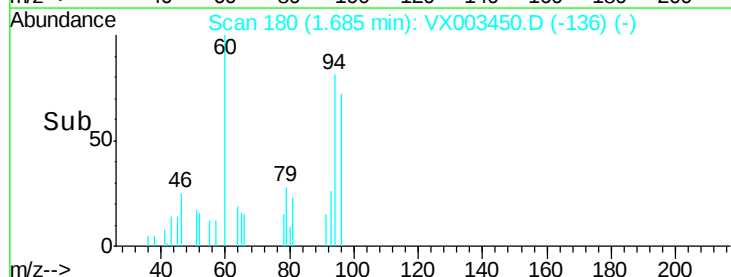
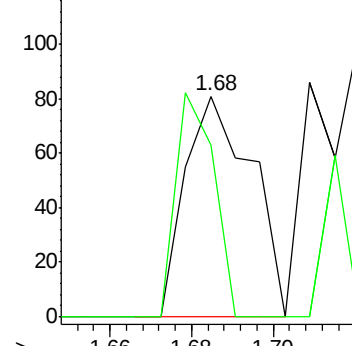
64 100

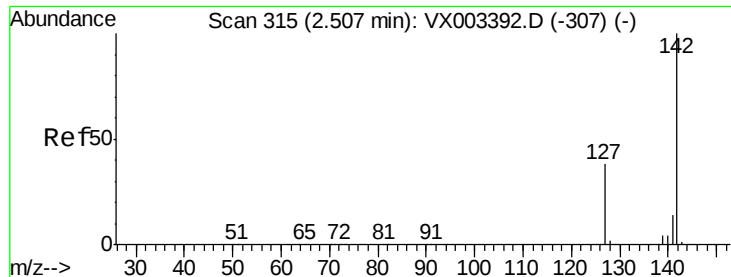
66 77.8 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

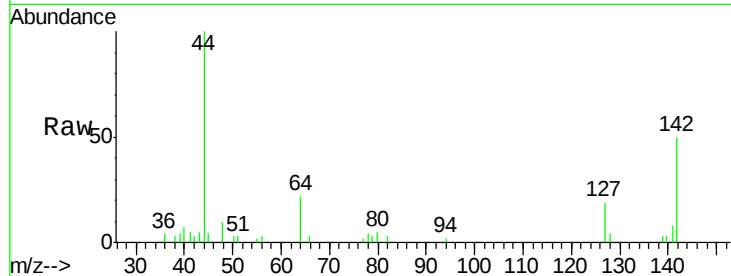




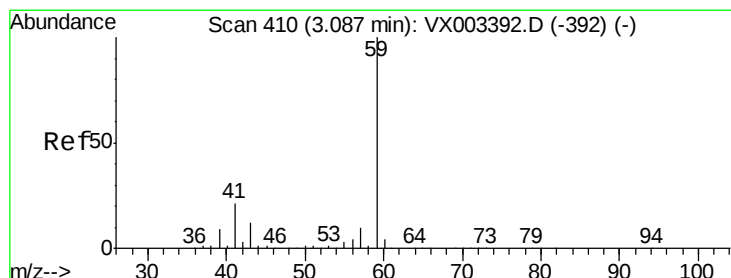
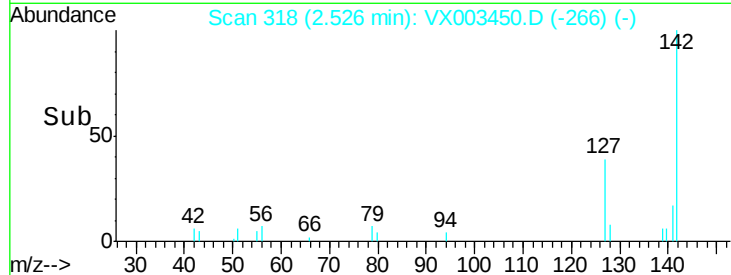
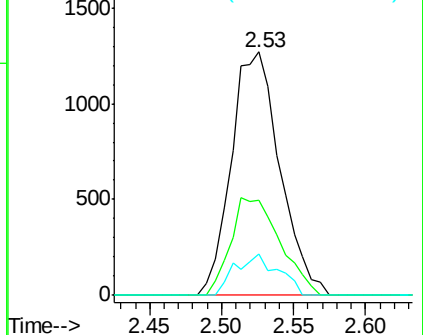
#10
Methvl Iodide
Concen: 0.94 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.02 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 2983
Ion Ratio Lower Upper
142 100
127 40.6 36.6 55.0
141 15.0 11.3 16.9

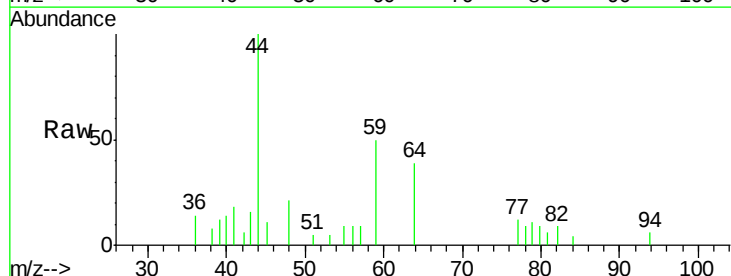


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

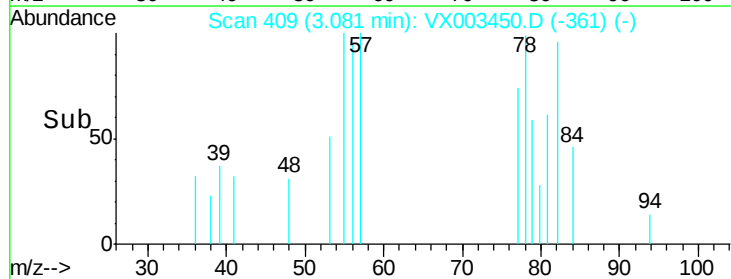
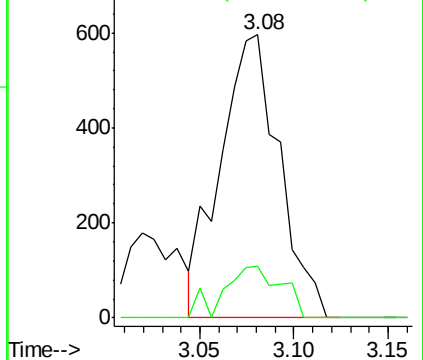


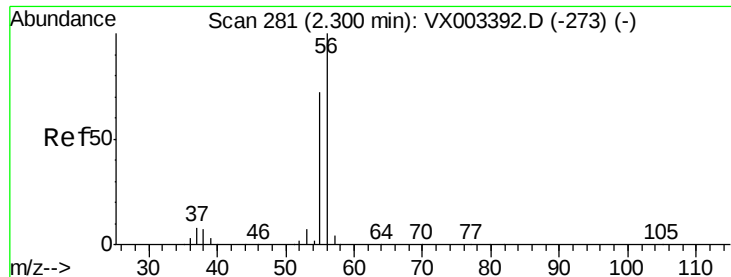
#11
Tert butyl alcohol
Concen: 1.65 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.01 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

Tgt Ion: 59 Resp: 1294
Ion Ratio Lower Upper
59 100
57 17.7 8.2 12.2#



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





#13

Acrolein

Concen: 0.41 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

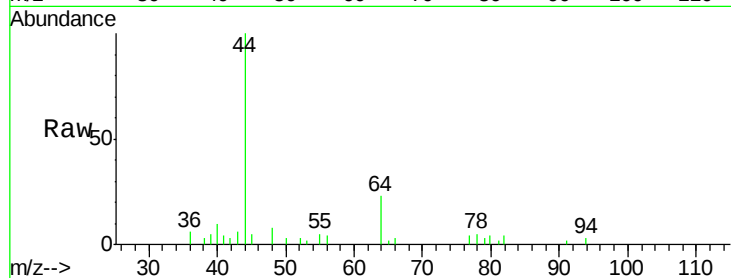
ClientSampled :

Tot Ion: 56 Resp: 155

Ion Ratio Lower Upper

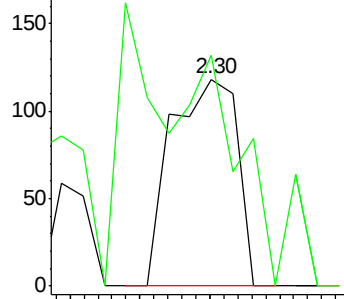
56 100

55 0.0 57.0 85.4#

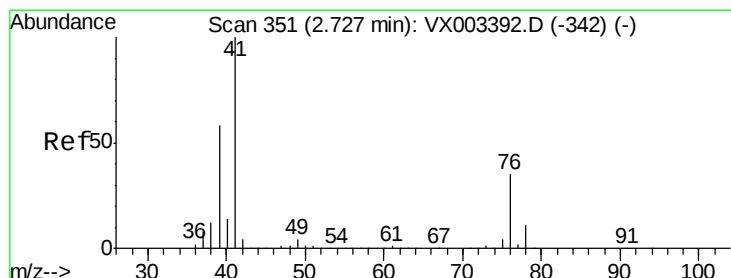
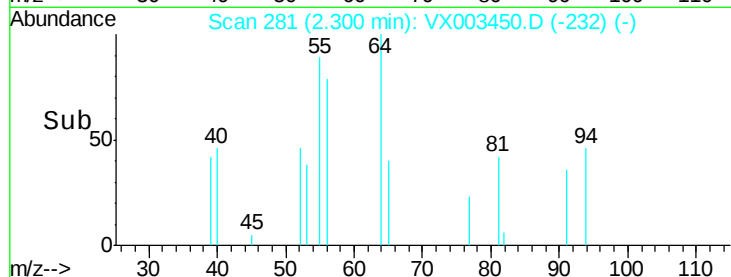


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#14

Allyl chloride

Concen: 2.82 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.13 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

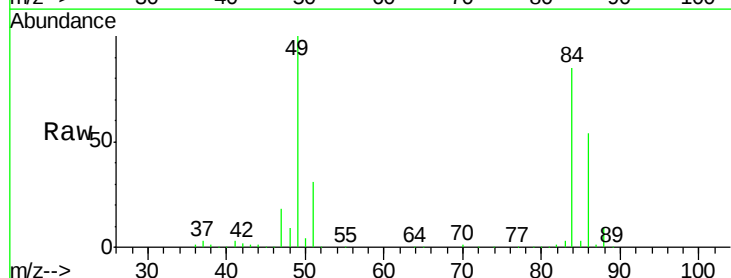
Tgt Ion: 41 Resp: 14353

Ion Ratio Lower Upper

41 100

39 1.1 56.8 85.2#

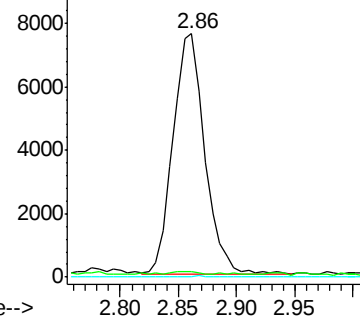
76 0.0 23.8 35.8#



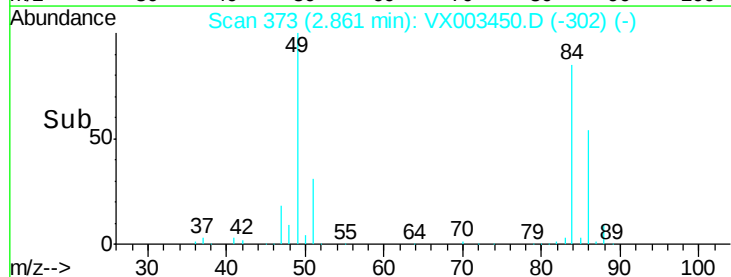
Abundance Ion 41.00 (40.70 to 41.70): VX0

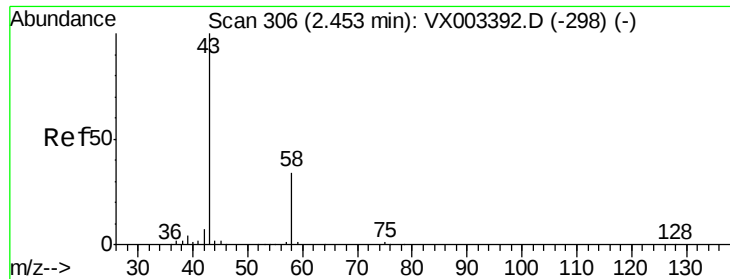
Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



Time-->





#16

Acetone

Concen: 12.41 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

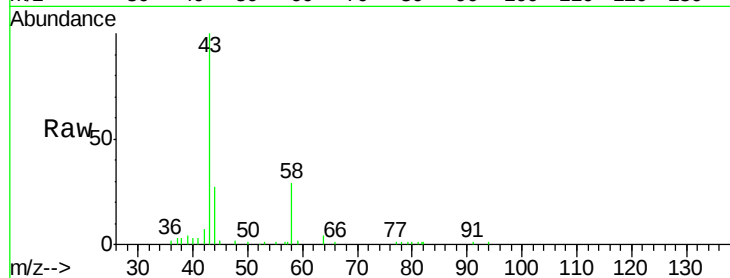
ClientSampled :

Tot Ion: 43 Resp: 18004

Ion Ratio Lower Upper

43 100

58 29.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

12000

10000

8000

6000

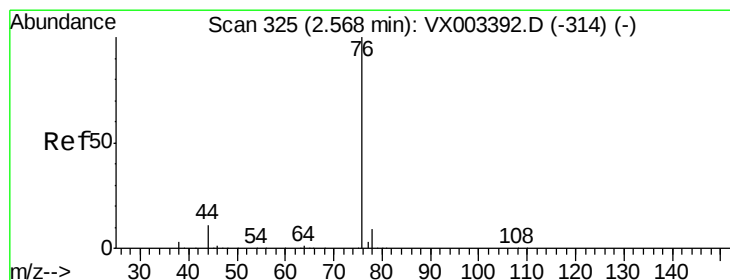
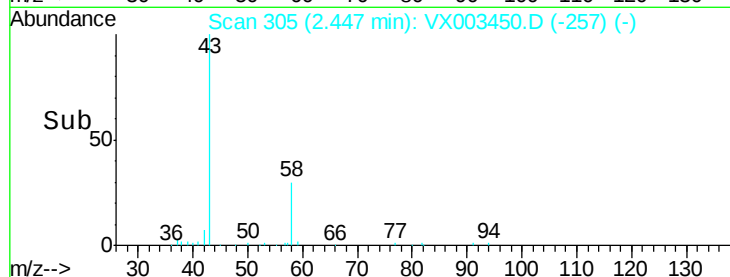
4000

2000

0

Time-->

2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.25 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003450.D

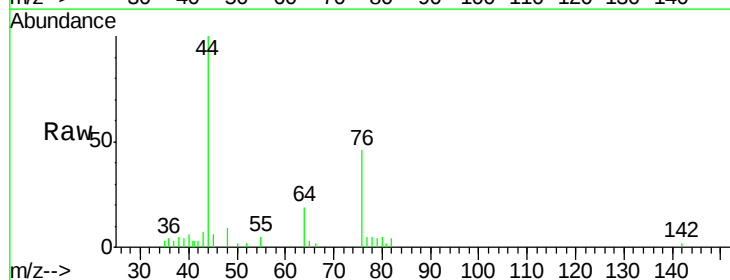
Acq: 18 Jul 2018 16:28

Tgt Ion: 76 Resp: 1918

Ion Ratio Lower Upper

76 100

78 3.8 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

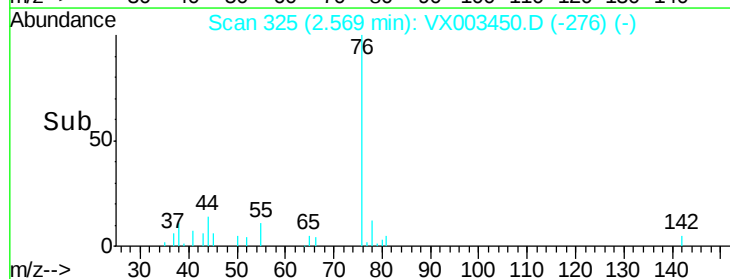
1000

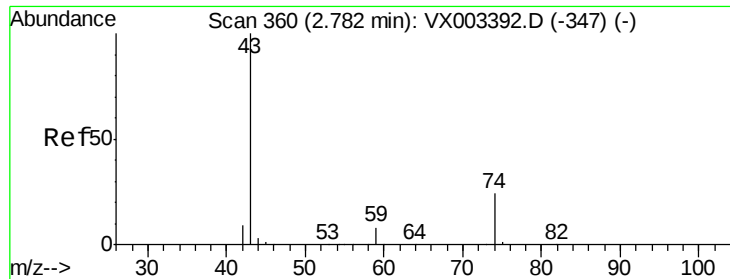
500

0

Time-->

2.55 2.60

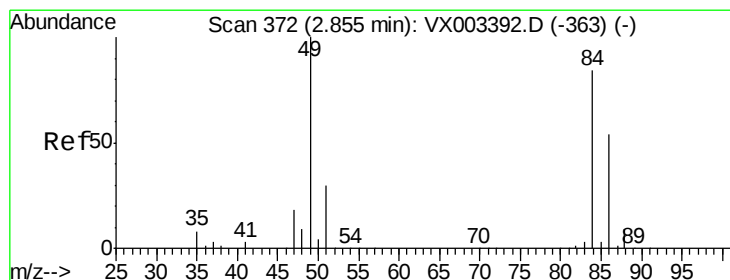
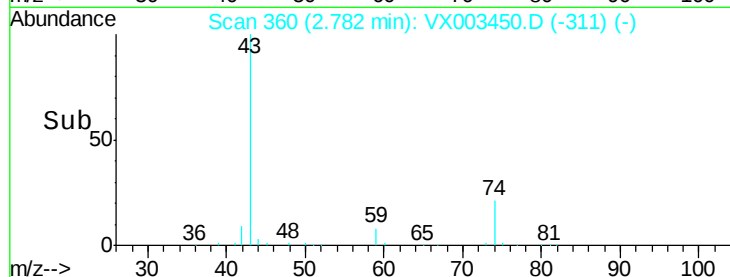
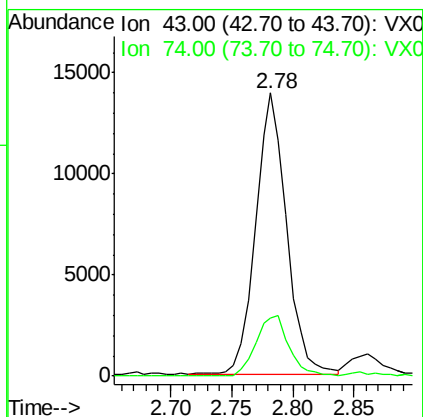
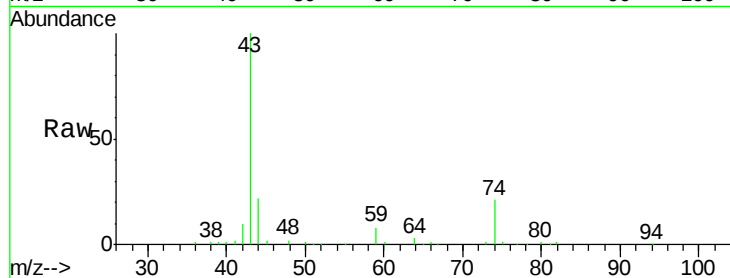




#18
Methyl Acetate
Concen: 5.18 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

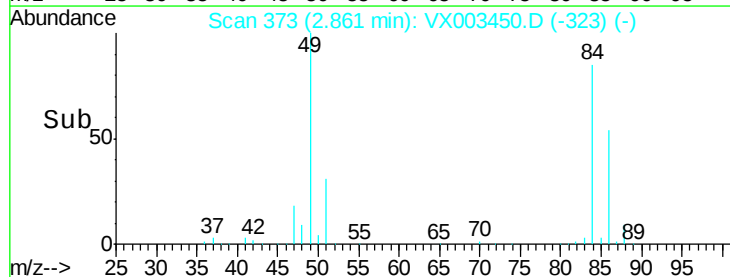
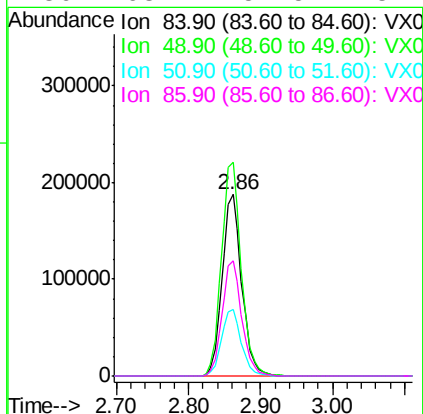
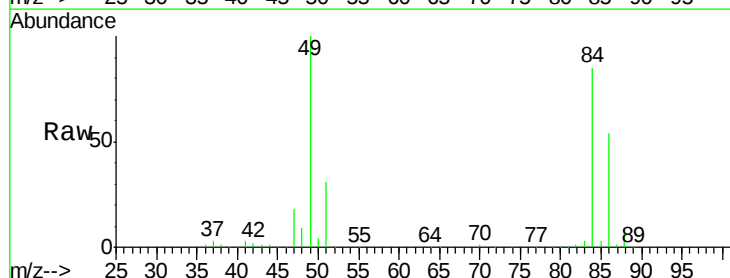
Instrument :
MSVOA_X
ClientSampleId :

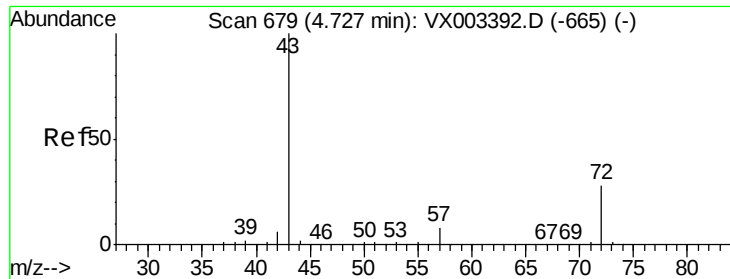
Tot Ion: 43 Resp: 24480
Ion Ratio Lower Upper
43 100
74 22.9 16.7 25.1



#20
Methylene Chloride
Concen: 120.23 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

Tgt Ion: 84 Resp: 353469
Ion Ratio Lower Upper
84 100
49 117.7 107.8 161.6
51 37.0 32.8 49.2
86 63.7 52.5 78.7





#25

2-Butanone

Concen: 2.42 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.02 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

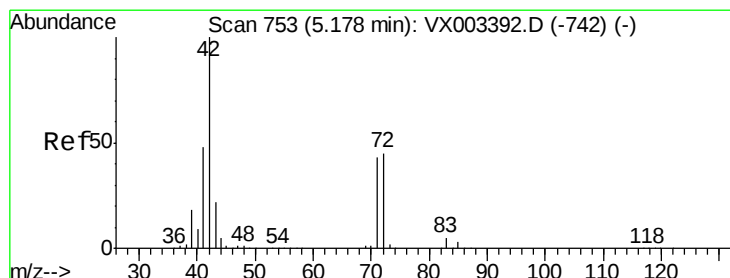
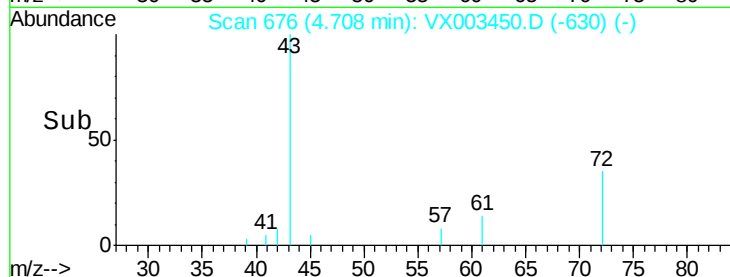
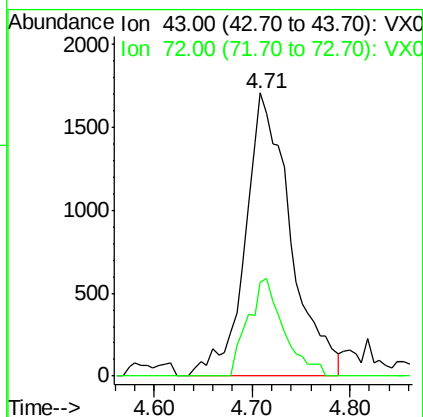
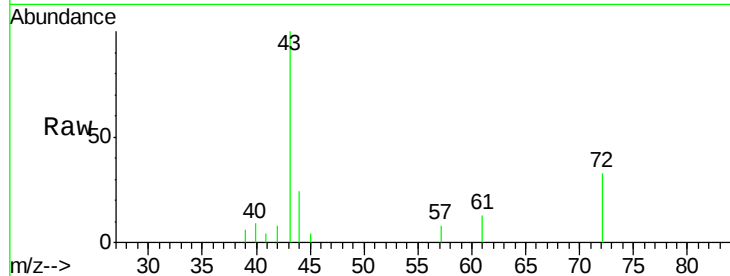
ClientSampleId :

Tot Ion: 43 Resp: 5491

Ion Ratio Lower Upper

43 100

72 33.0 18.5 27.7#



#29

Tetrahydrofuran

Concen: 1.45 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

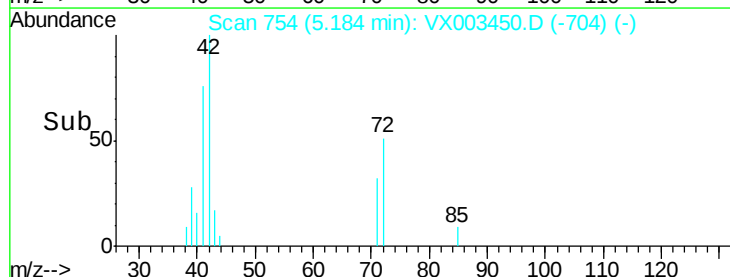
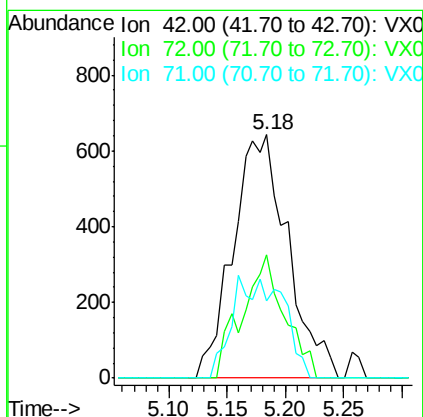
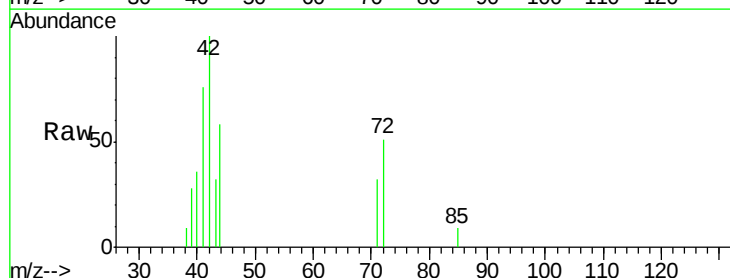
Tgt Ion: 42 Resp: 2091

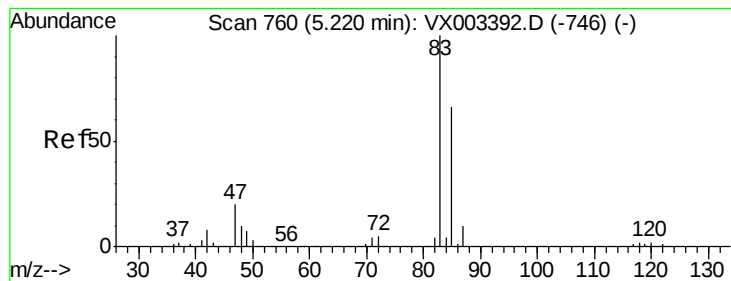
Ion Ratio Lower Upper

42 100

72 39.4 32.0 48.0

71 0.0 30.1 45.1#





#30

Chloroform

Concen: 0.25 ug/l

RT: 5.21 min Scan# 759

Delta R.T. -0.01 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

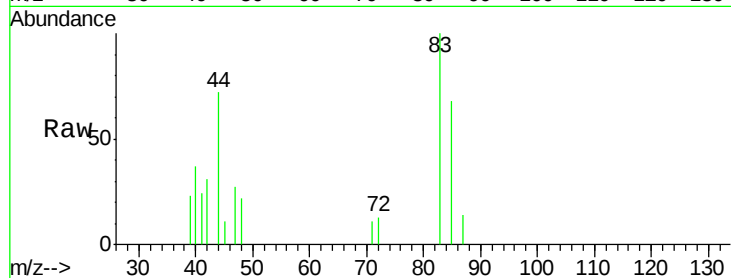
ClientSampled :

Tot Ion: 83 Resp: 1290

Ion Ratio Lower Upper

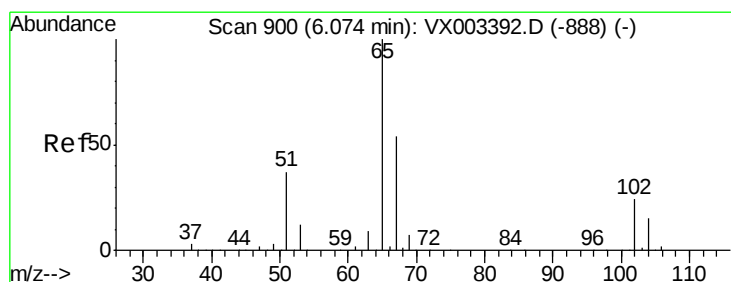
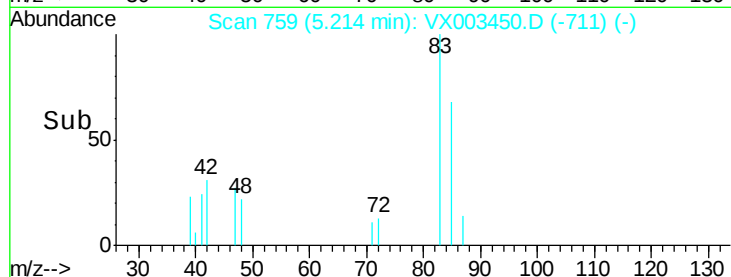
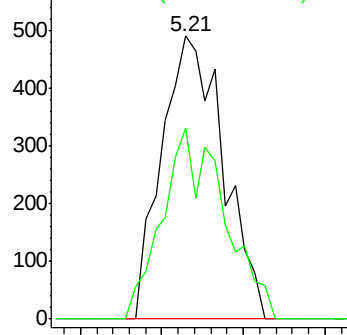
83 100

85 67.8 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: 52.30 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003450.D

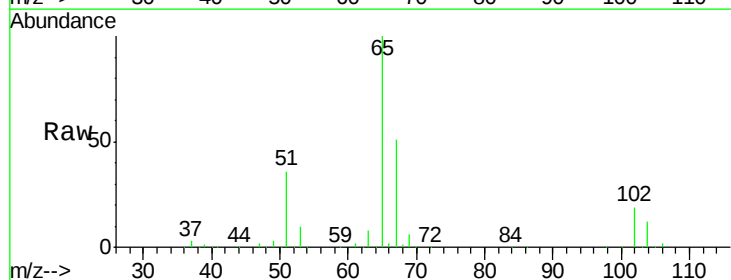
Acq: 18 Jul 2018 16:28

Tgt Ion: 65 Resp: 182411

Ion Ratio Lower Upper

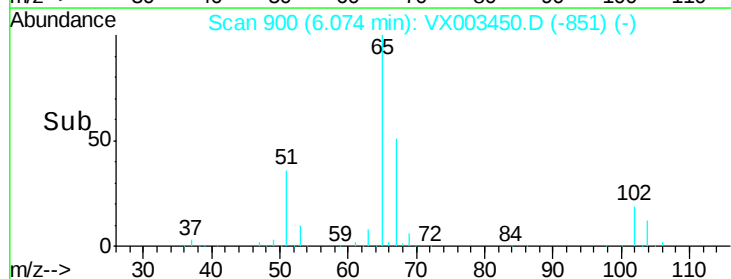
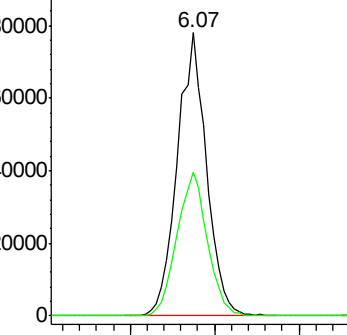
65 100

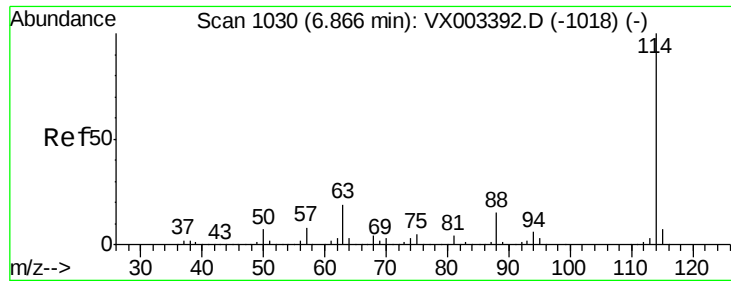
67 52.9 0.0 102.6



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: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

ClientSampleId :

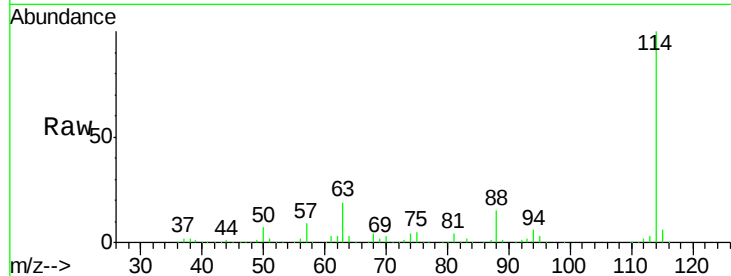
Tot Ion:114 Resp: 408410

Ion Ratio Lower Upper

114 100

63 19.0 0.0 41.4

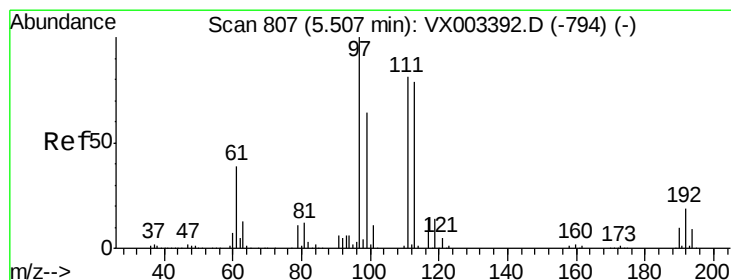
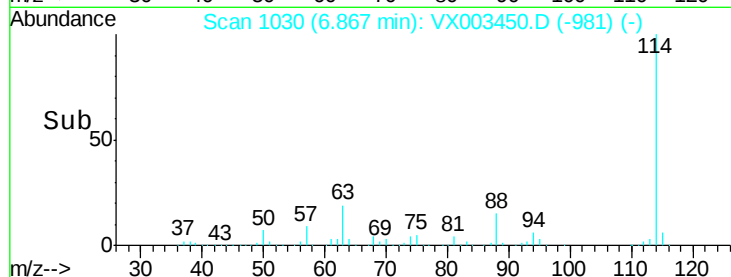
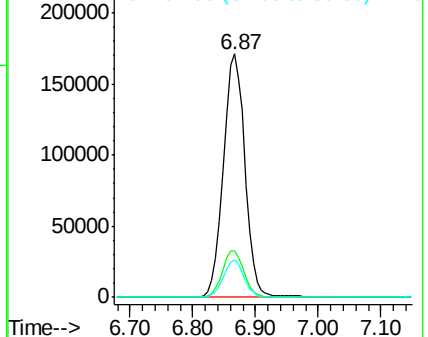
88 15.3 0.0 30.0



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: 46.14 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

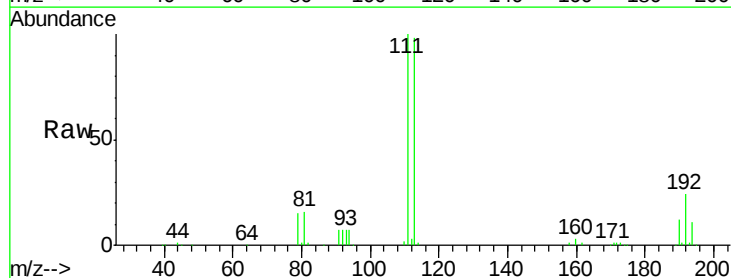
Tgt Ion:113 Resp: 152460

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.0

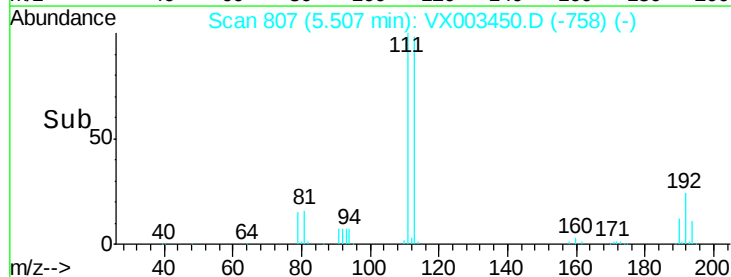
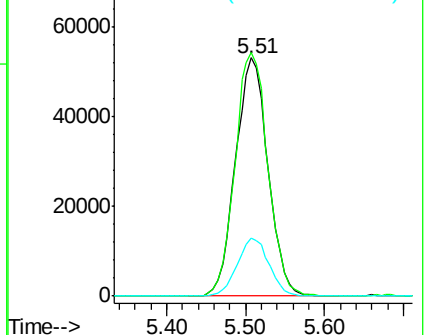
192 23.7 19.1 28.7

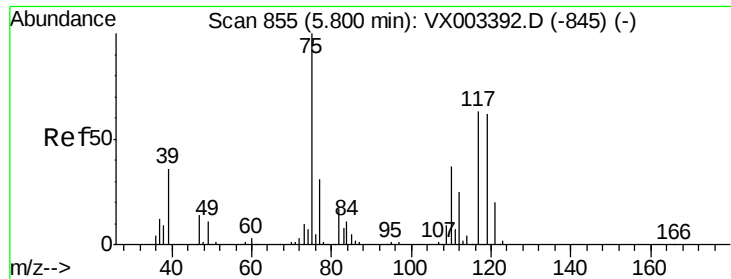


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

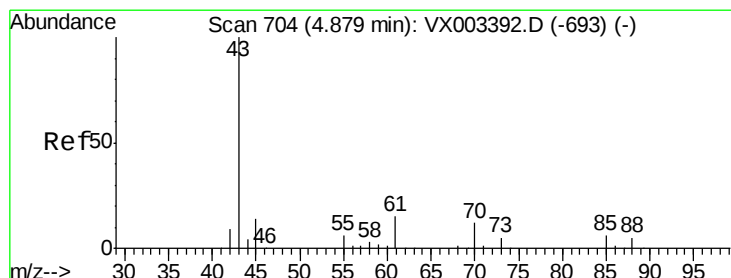
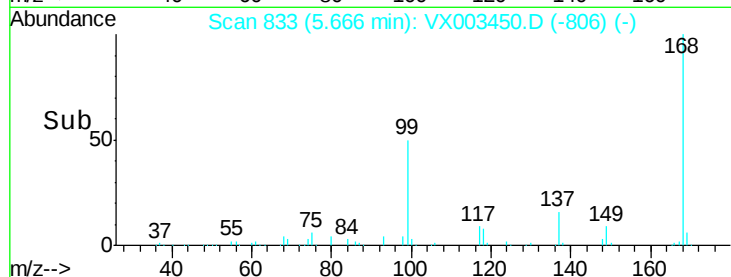
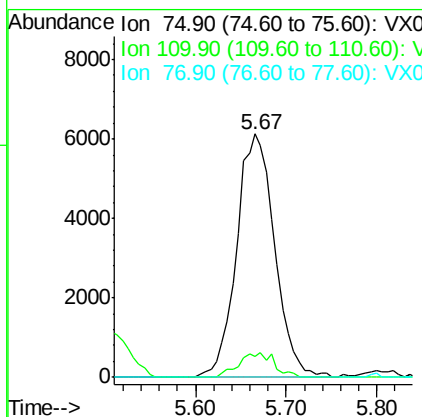
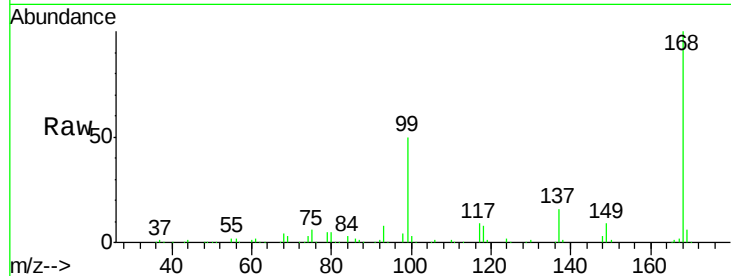




#36
 1,1-Dichloropropene
 Concen: 4.29 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003450.D
 Acq: 18 Jul 2018 16:28

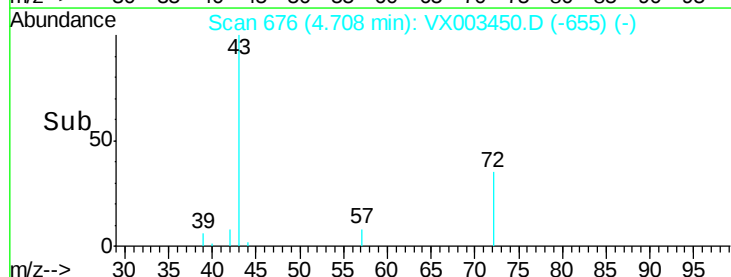
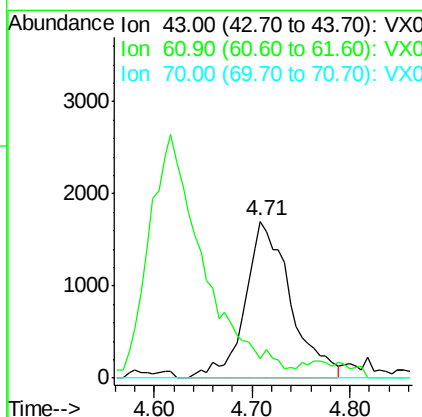
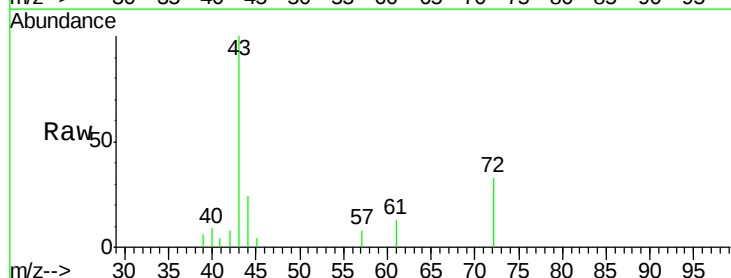
Instrument :
 MSVOA_X
 ClientSampled :

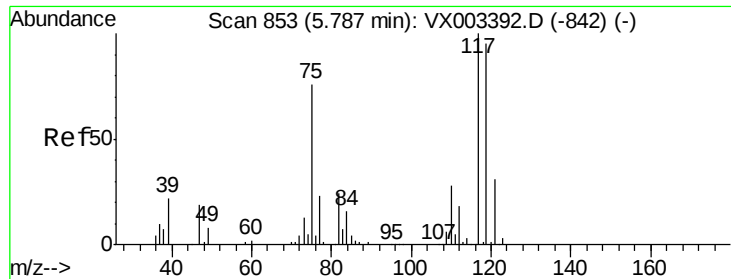
Tot Ion: 75 Resp: 17758
 Ion Ratio Lower Upper
 75 100
 110 4.9 18.1 54.4#
 77 0.0 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 1.18 ug/l
 RT: 4.71 min Scan# 676
 Delta R.T. -0.17 min
 Lab File: VX003450.D
 Acq: 18 Jul 2018 16:28

Tgt Ion: 43 Resp: 5491
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.4 15.6#
 70 0.0 7.6 11.4#

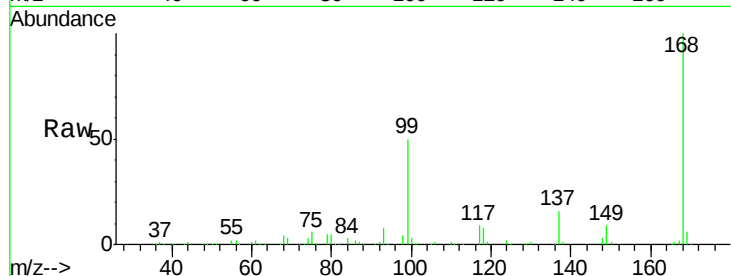




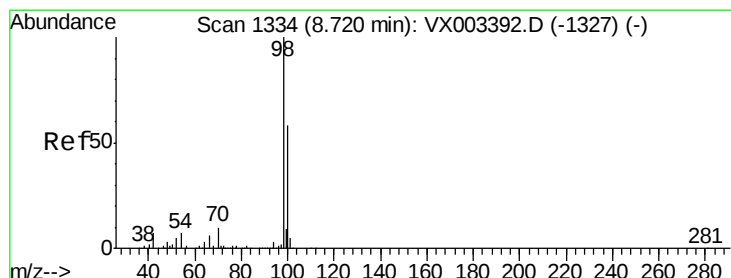
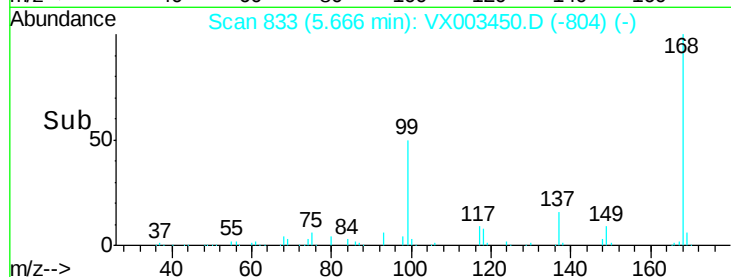
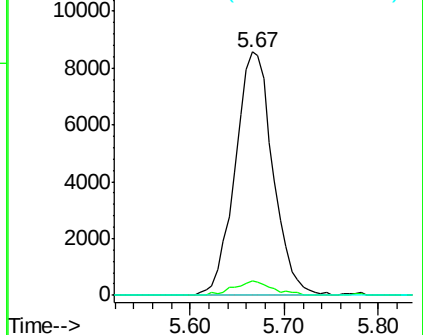
#38
Carbon Tetrachloride
Concen: 5.68 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 23905
Ion Ratio Lower Upper
117 100
119 5.8 77.4 116.0#
121 0.0 24.4 36.6#

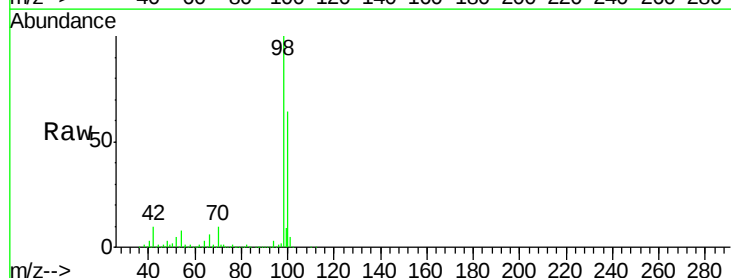


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

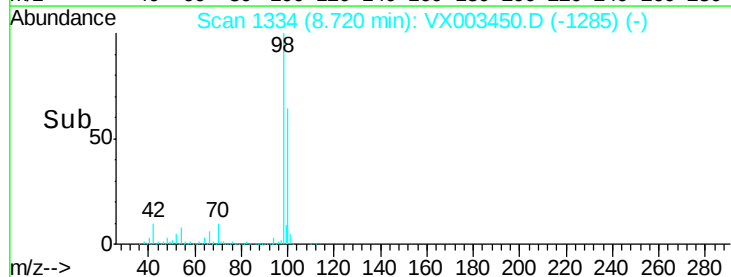
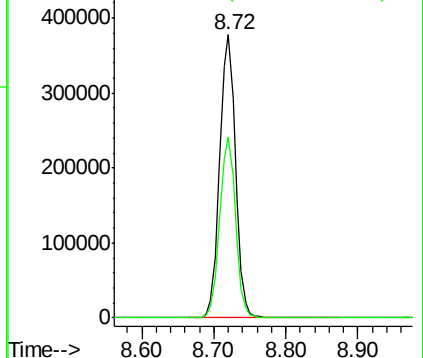


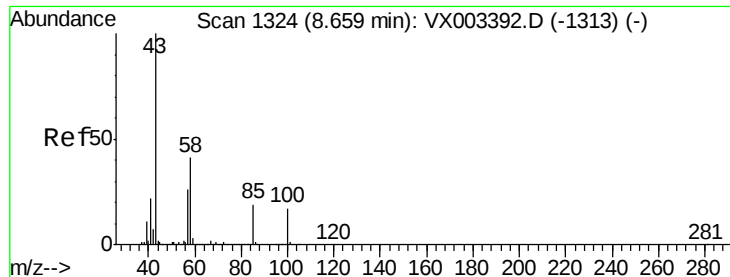
#50
Toluene-d8
Concen: 47.26 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

Tgt Ion: 98 Resp: 576314
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



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

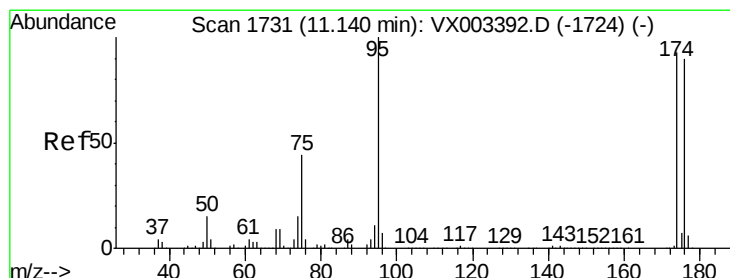
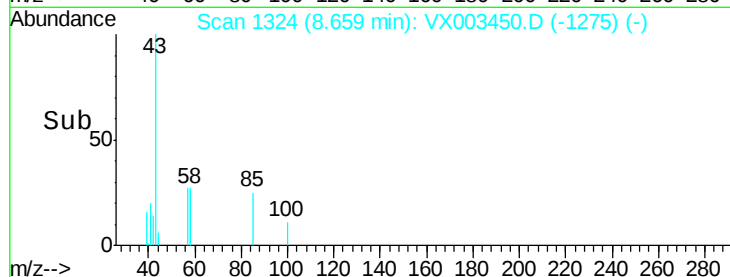
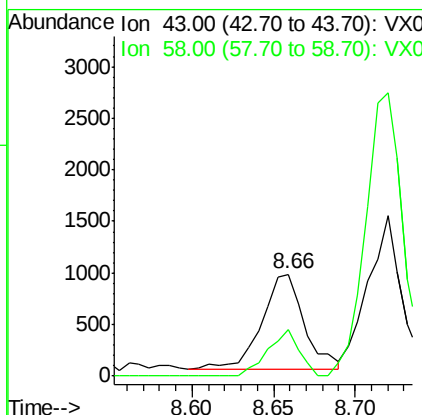
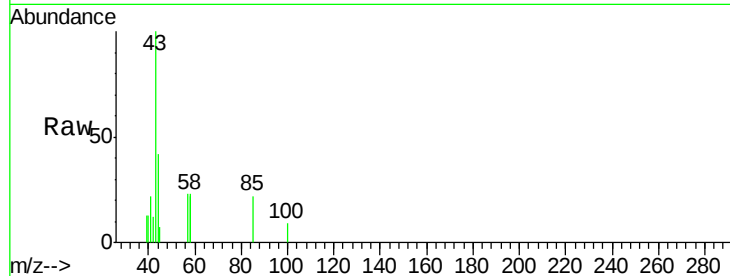




#51
4-Methyl-2-Pentanone
Concen: 0.36 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.00 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

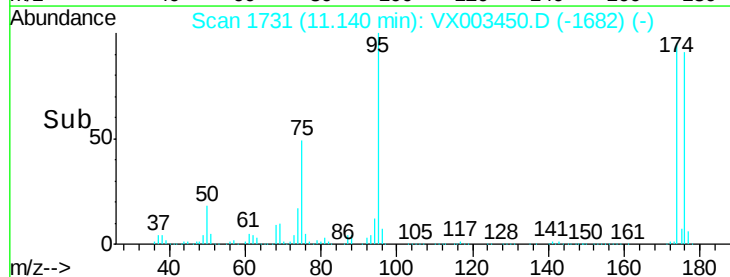
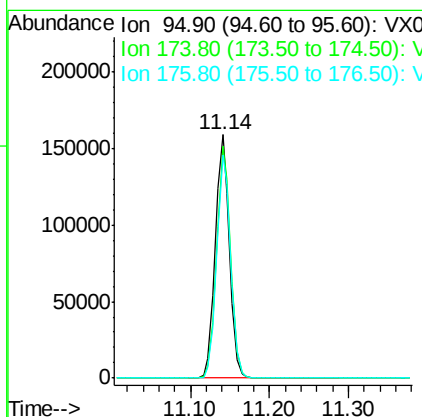
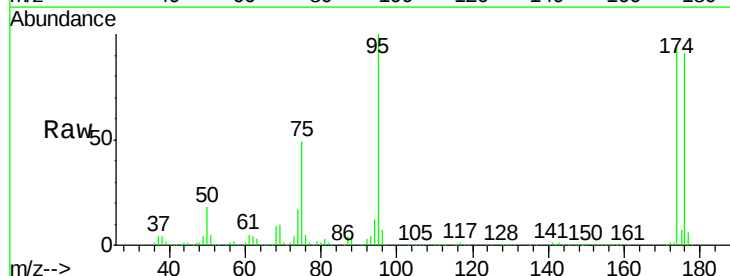
Instrument :
MSVOA_X
ClientSampled :

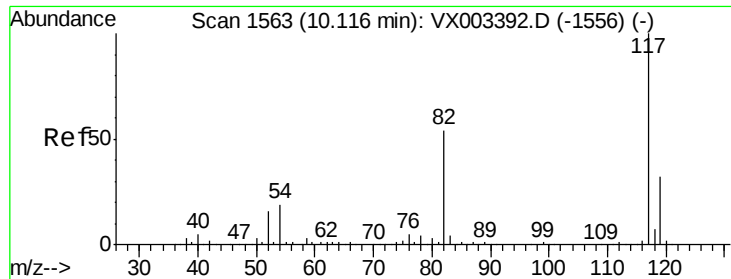
Tot Ion: 43 Resp: 1673
Ion Ratio Lower Upper
43 100
58 35.9 28.6 42.8



#62
4-Bromofluorobenzene
Concen: 45.40 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

Tgt Ion: 95 Resp: 197653
Ion Ratio Lower Upper
95 100
174 95.1 0.0 187.4
176 91.3 0.0 181.0

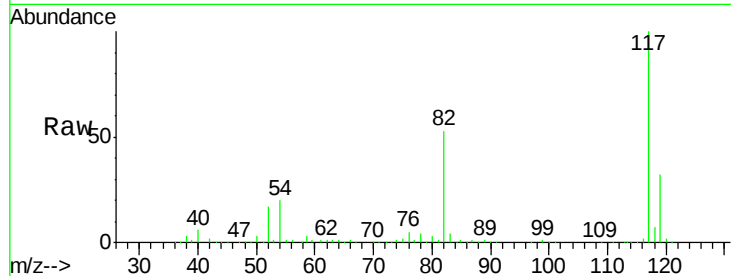




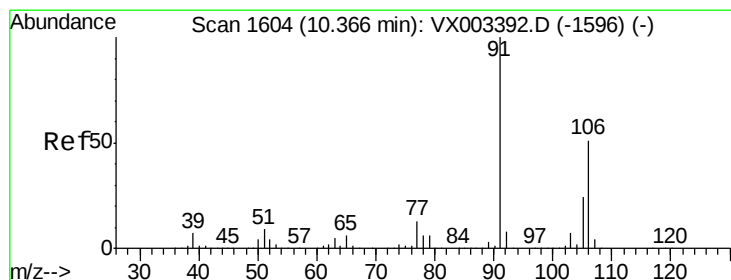
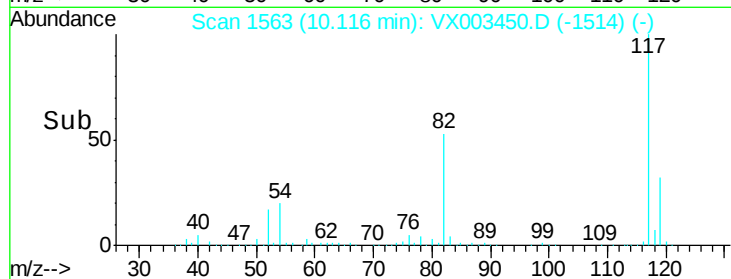
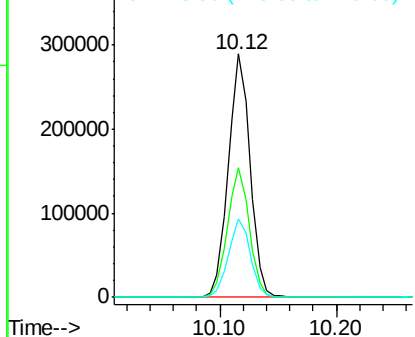
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 377606
Ion Ratio Lower Upper
117 100
82 53.5 45.0 67.4
119 32.3 25.8 38.6

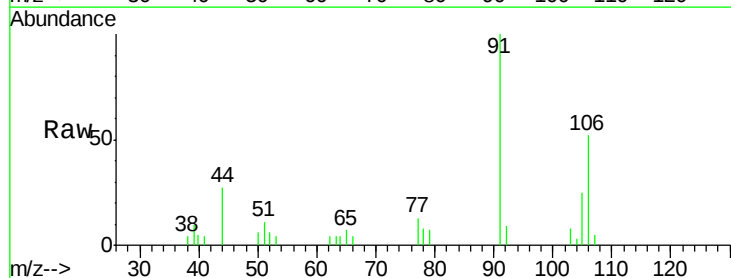


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

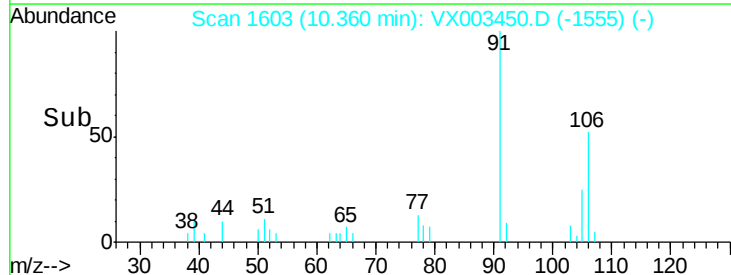
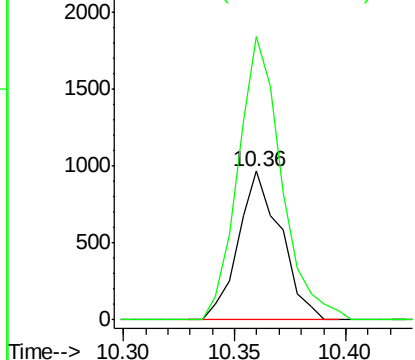


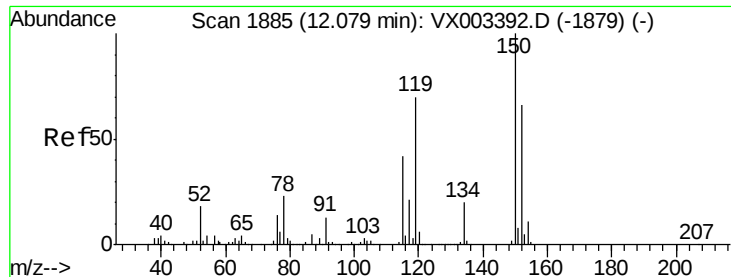
#68
m/p-Xylenes
Concen: 0.23 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX003450.D
Acq: 18 Jul 2018 16:28

Tgt Ion:106 Resp: 1290
Ion Ratio Lower Upper
106 100
91 194.4 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

ClientSampleId :

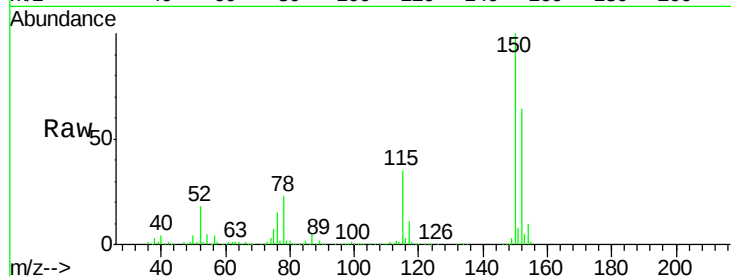
Tot Ion:152 Resp: 217219

Ion Ratio Lower Upper

152 100

115 53.8 40.1 120.2

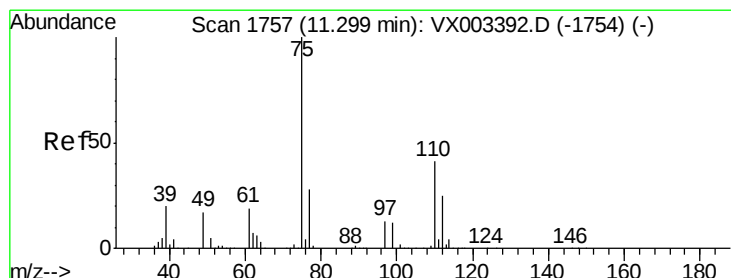
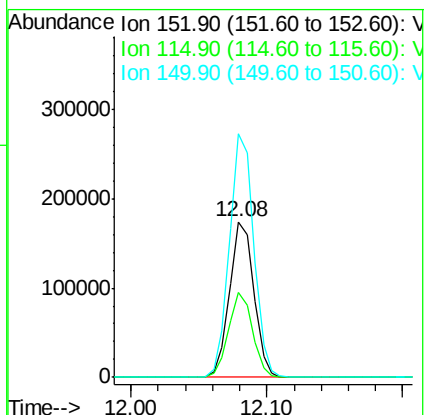
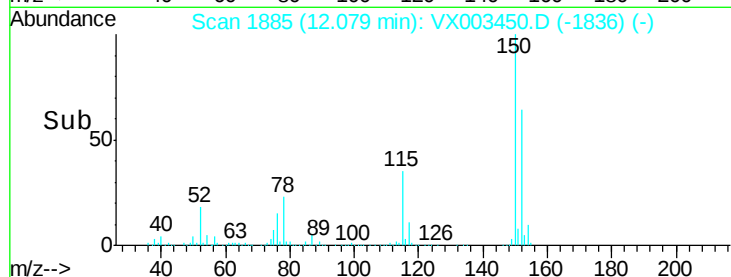
150 156.4 0.0 347.2



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: 24.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003450.D

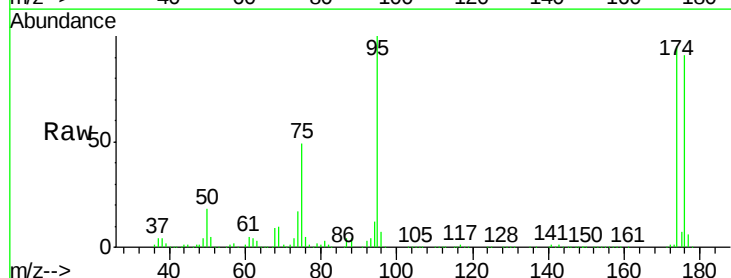
Acq: 18 Jul 2018 16:28

Tgt Ion: 75 Resp: 96497

Ion Ratio Lower Upper

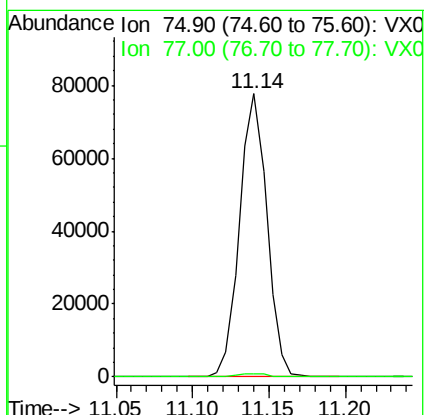
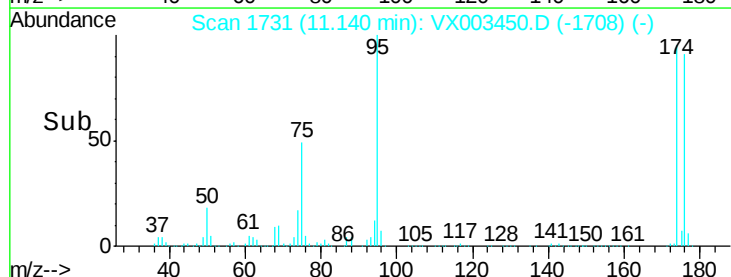
75 100

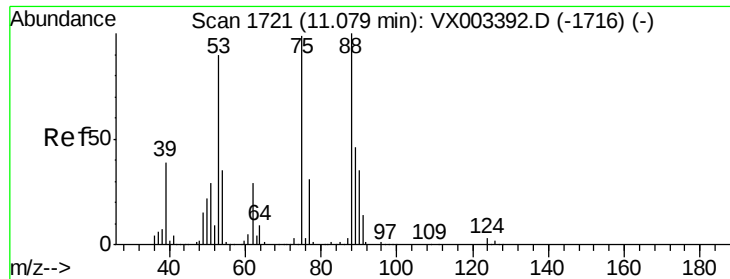
77 1.3 22.8 68.3#



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: 79.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

ClientSampleId :

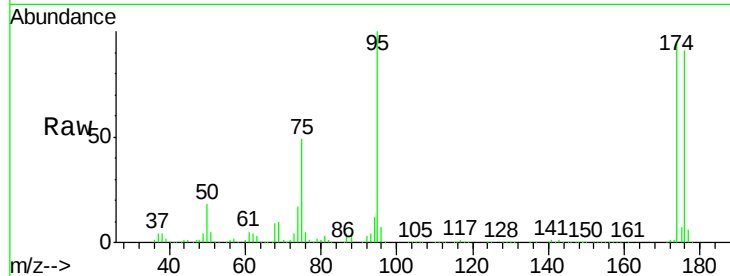
Tot Ion: 75 Resp: 96497

Ion Ratio Lower Upper

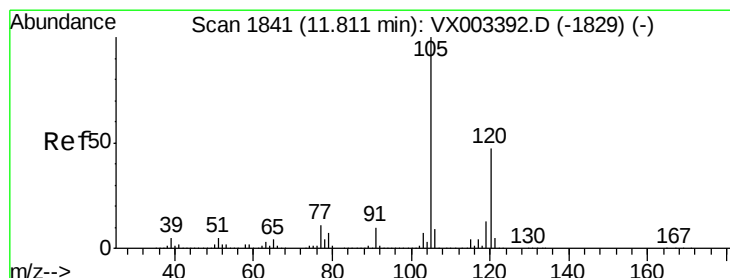
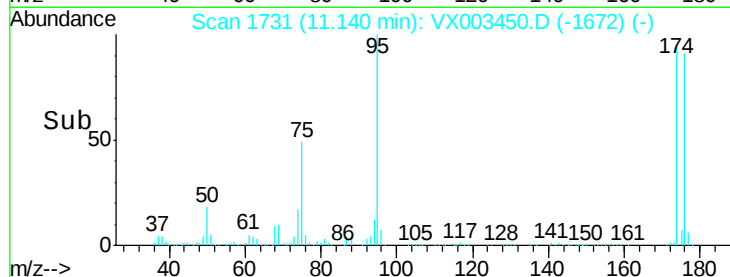
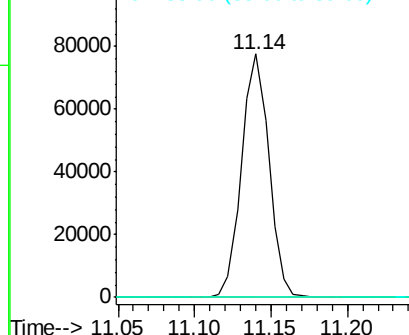
75 100

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



#84

1,2,4-Trimethylbenzene

Concen: 0.47 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX003450.D

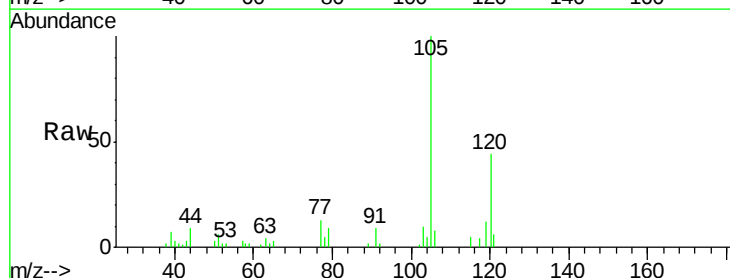
Acq: 18 Jul 2018 16:28

Tgt Ion: 105 Resp: 5483

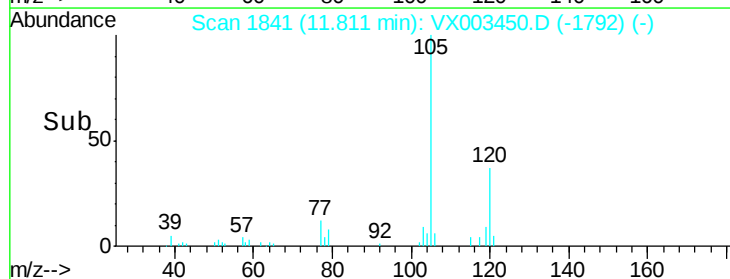
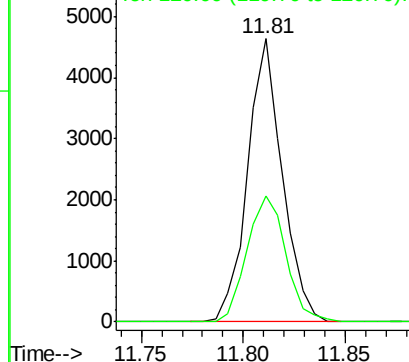
Ion Ratio Lower Upper

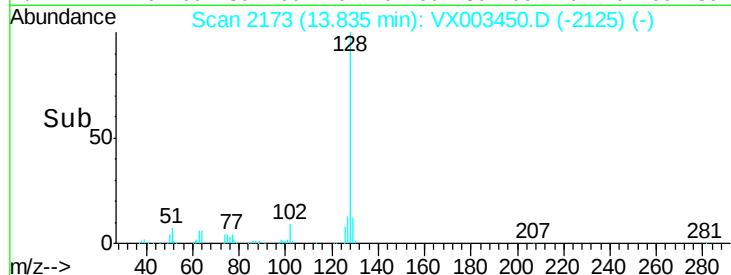
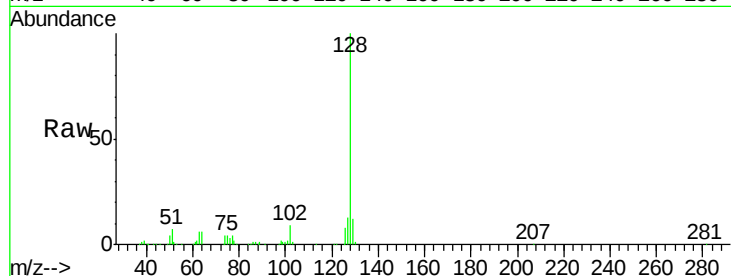
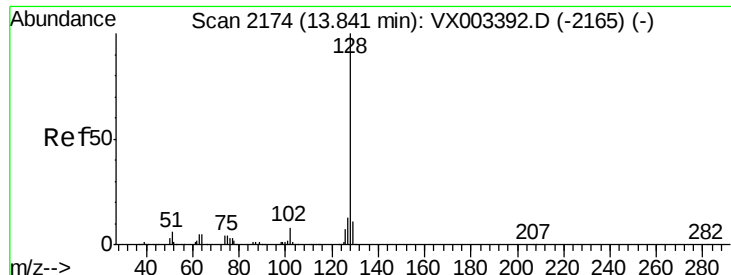
105 100

120 49.5 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: 6.26 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VX003450.D

Acq: 18 Jul 2018 16:28

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:128 Resp: 89111

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

129 11.4 8.6 13.0

