

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092818\
 Data File : VX004840.D
 Acq On : 29 Sep 2018 00:32
 Operator : JC/MD
 Sample : J5134-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-20180924

Quant Time: Sep 29 06:36:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

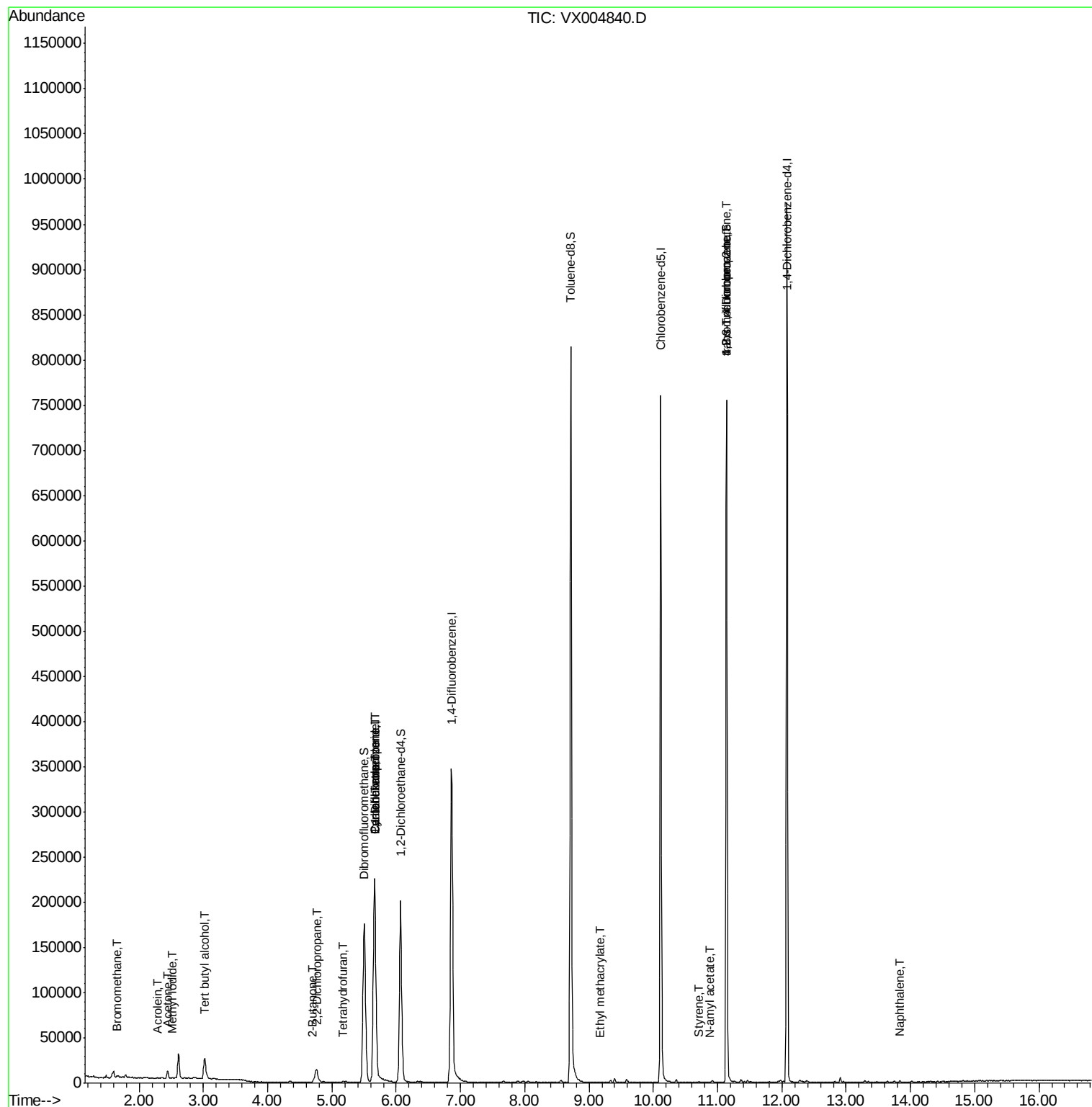
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	240257	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	364024	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	356001	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196232	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	181250	52.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.62%	
35) Dibromofluoromethane	5.51	113	154446	50.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.12%	
50) Toluene-d8	8.72	98	525761	51.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.52%	
62) 4-Bromofluorobenzene	11.14	95	188822	51.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.20%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.65	94	756	0.342	ug/l	84
6) Chloroethane	1.60	64	2174	Below Cal	#	79
10) Methyl Iodide	2.51	142	759	0.216	ug/l #	91
11) Tert butyl alcohol	3.02	59	16547	17.243	ug/l #	79
13) Acrolein	2.28	56	297	0.435	ug/l #	70
16) Acetone	2.45	43	8533	4.259	ug/l	96
20) Methylene Chloride	2.85	84	743	Below Cal	#	75
25) 2-Butanone	4.70	43	2540	0.860	ug/l #	72
26) 2,2-Dichloropropane	4.76	77	1328	0.334	ug/l #	52
29) Tetrahydrofuran	5.17	42	713	0.388	ug/l #	62
31) Cyclohexane	5.66	56	4085	0.935	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15736	3.738	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20996	4.745	ug/l #	14
56) Ethyl methacrylate	9.17	69	35	2.868	ug/l #	1
70) Styrene	10.71	104	122	2.152	ug/l #	57
74) N-amyl acetate	10.88	43	27	1.752	ug/l #	40
76) 1,2,3-Trichloropropane	11.14	75	93246	21.201	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	292	Below Cal	#	27
81) trans-1,4-Dichloro-2-buten	11.14	75	93246	57.511	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	392	Below Cal		89
95) Naphthalene	13.83	128	841	0.770	ug/l #	90

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

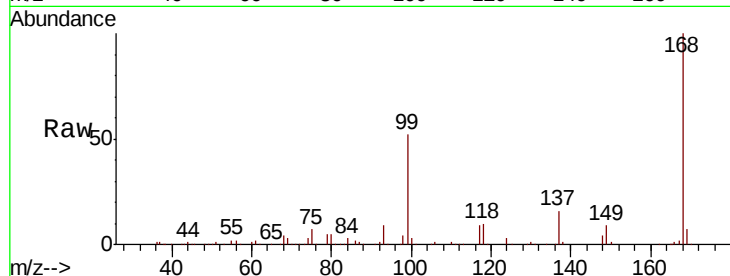
EB01-20180924

Tot Ion:168 Resp: 240257

Ion Ratio Lower Upper

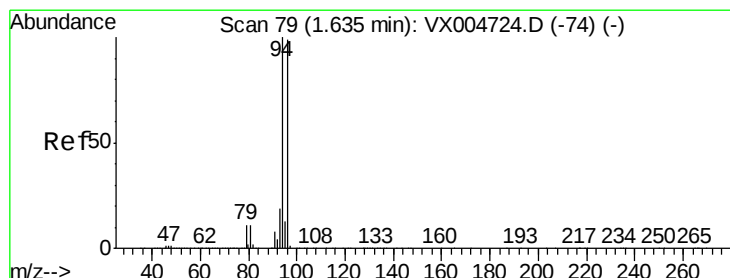
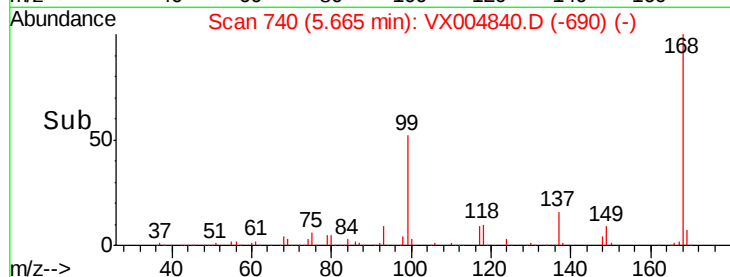
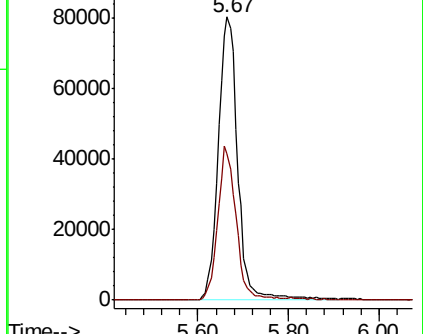
168 100

99 51.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.342 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004840.D

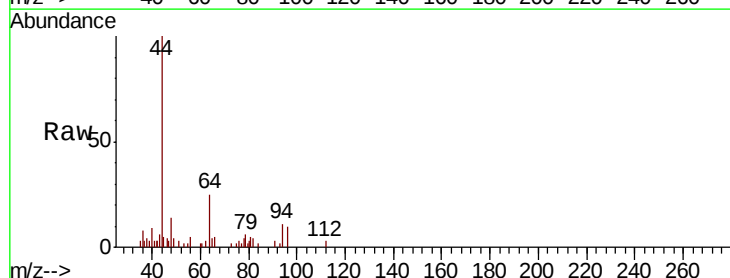
Acq: 29 Sep 2018 00:32

Tgt Ion: 94 Resp: 756

Ion Ratio Lower Upper

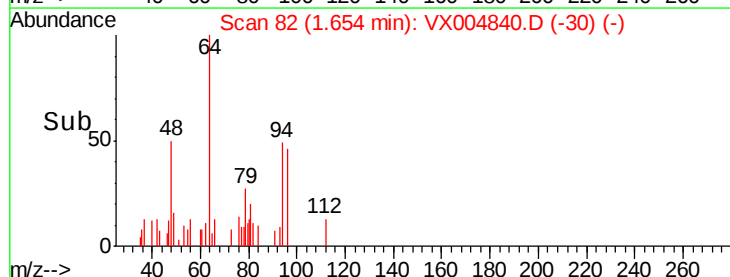
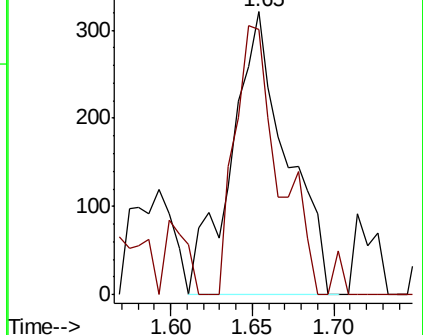
94 100

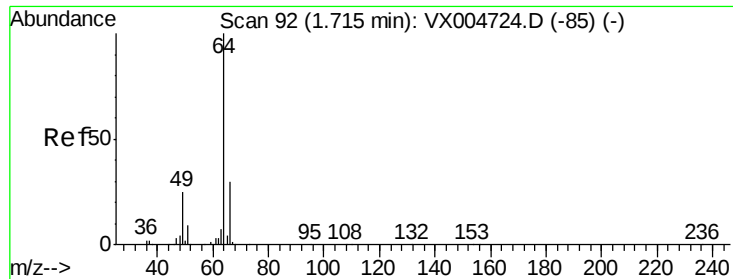
96 78.2 74.5 111.7



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: 1.60 min Scan# 74

Delta R.T. -0.11 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

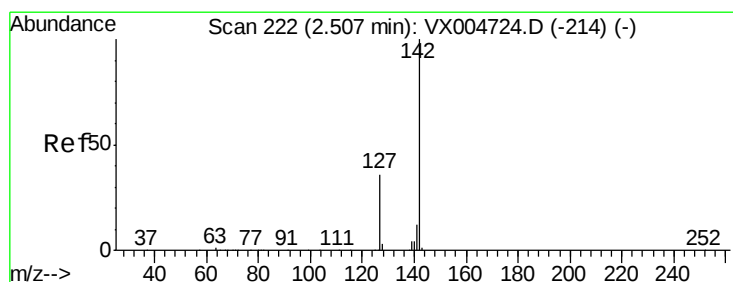
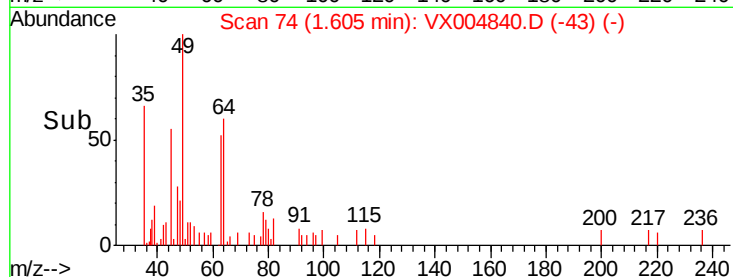
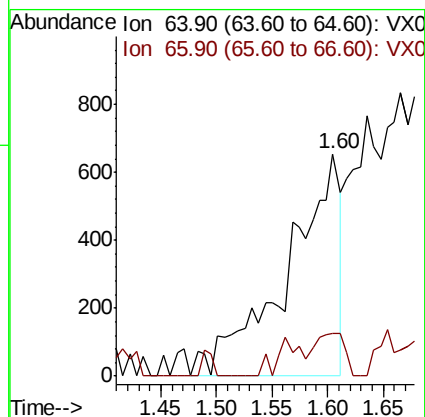
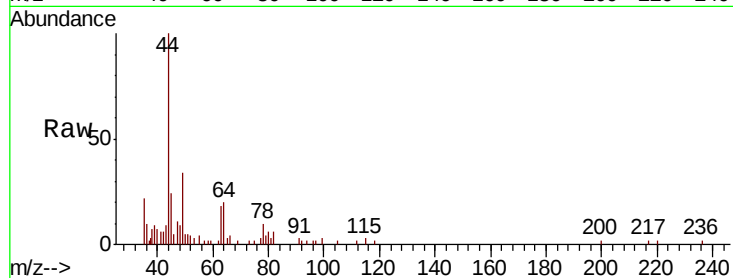
EB01-20180924

Tot Ion: 64 Resp: 2174

Ion Ratio Lower Upper

64 100

66 19.1 24.6 36.8#



#10

Methyl Iodide

Concen: 0.216 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

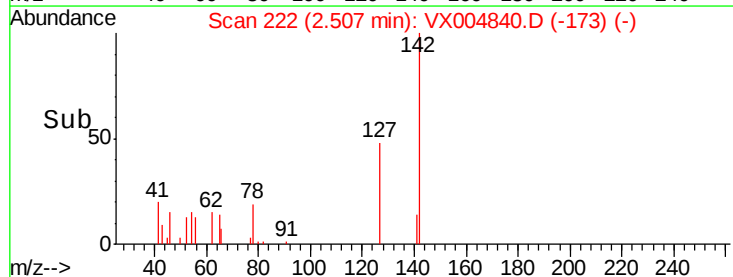
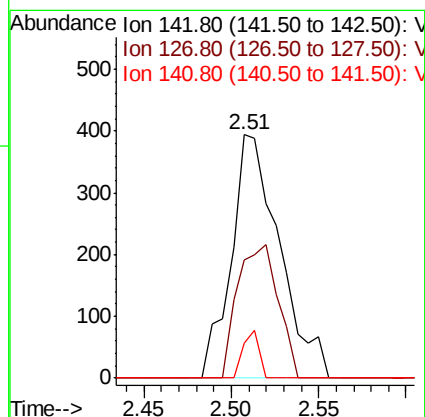
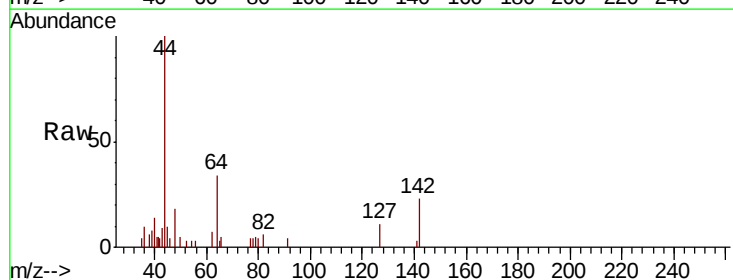
Tgt Ion: 142 Resp: 759

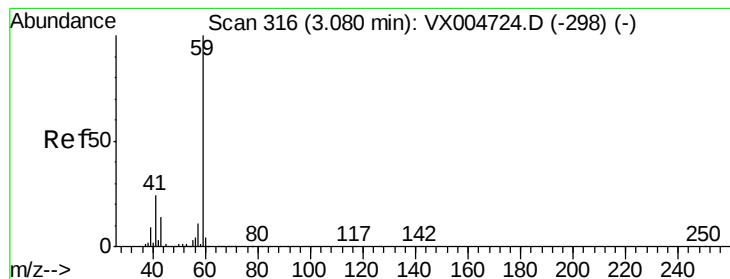
Ion Ratio Lower Upper

142 100

127 45.8 33.8 50.6

141 6.5 11.4 17.0#





#11

Tert butyl alcohol

Concen: 17.243 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

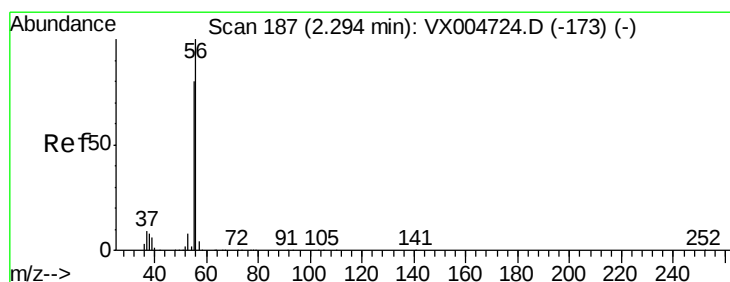
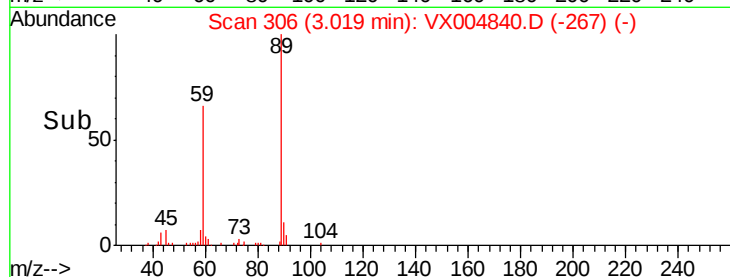
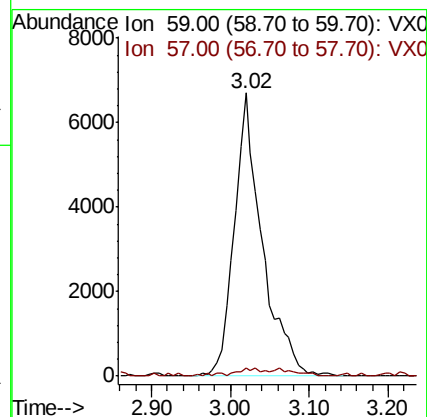
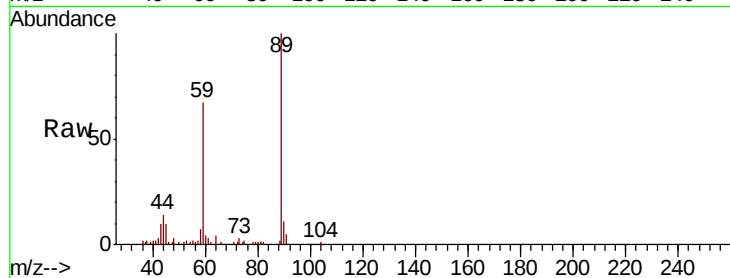
EB01-20180924

Tot Ion: 59 Resp: 16547

Ion Ratio Lower Upper

59 100

57 2.5 8.2 12.4#



#13

Acrolein

Concen: 0.435 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX004840.D

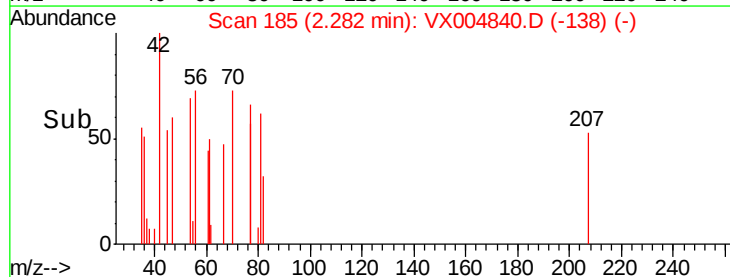
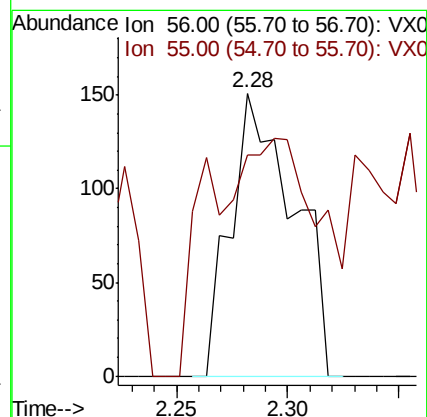
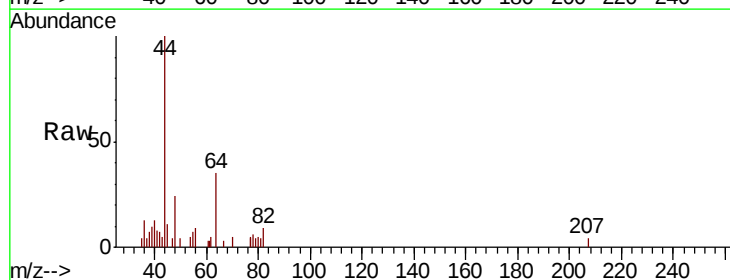
Acq: 29 Sep 2018 00:32

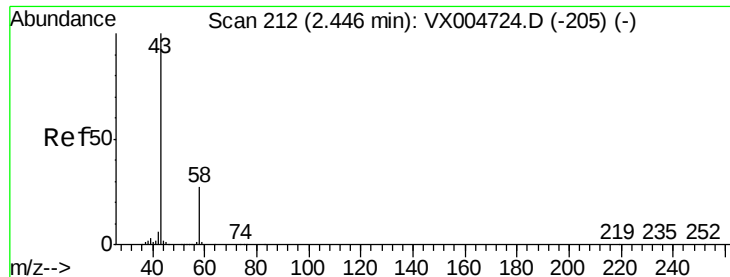
Tgt Ion: 56 Resp: 297

Ion Ratio Lower Upper

56 100

55 44.1 54.7 82.1#





#16

Acetone

Concen: 4.259 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

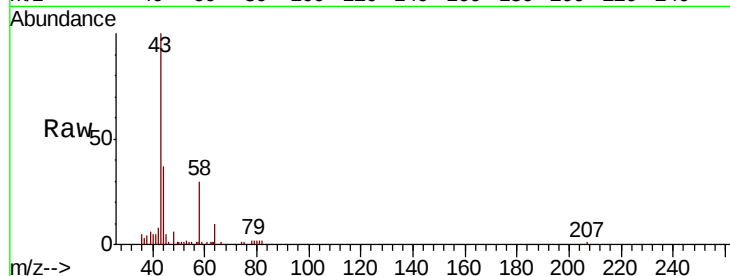
EB01-20180924

Tot Ion: 43 Resp: 8533

Ion Ratio Lower Upper

43 100

58 30.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

6000

5000

4000

3000

2000

1000

0

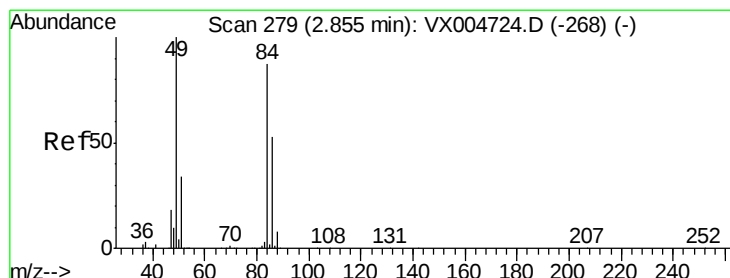
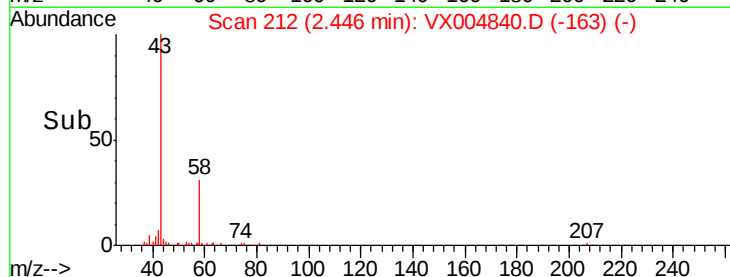
2.35

2.40

2.45

2.50

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Tgt Ion: 84 Resp: 743

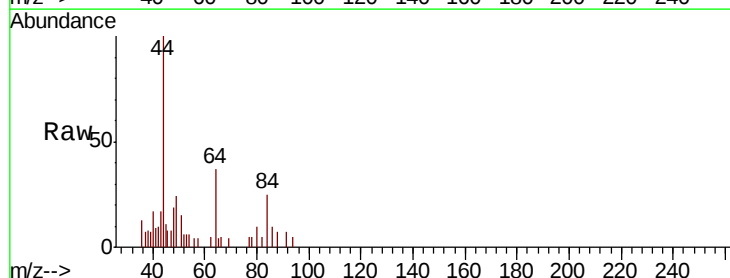
Ion Ratio Lower Upper

84 100

49 97.4 101.2 151.8#

51 44.1 29.5 44.3

86 41.0 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

800

600

400

200

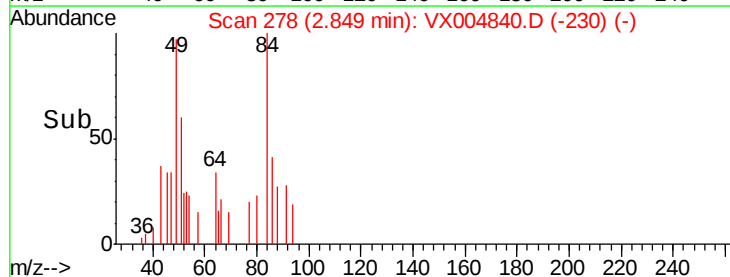
0

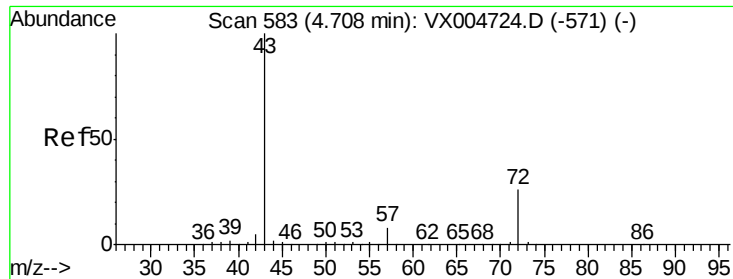
2.80

2.85

2.90

Time-->





#25

2-Butanone

Concen: 0.860 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

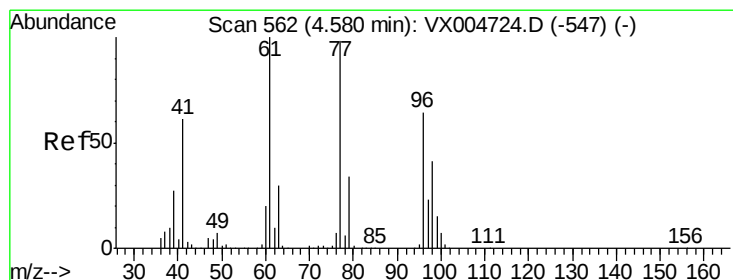
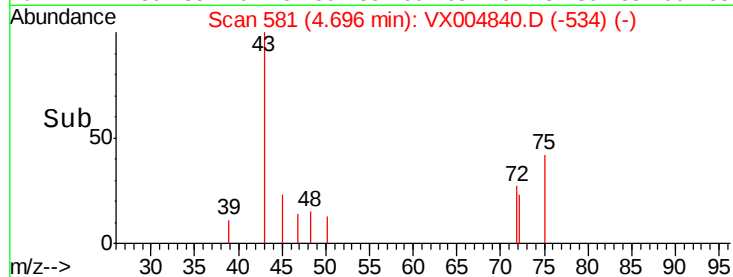
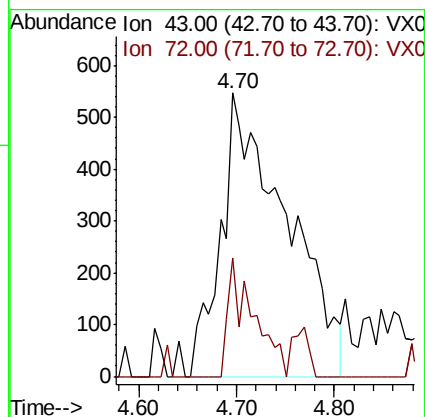
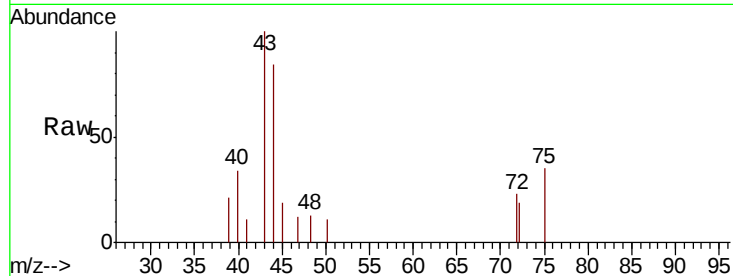
EB01-20180924

Tot Ion: 43.00 Resp: 2540

Ion Ratio Lower Upper

43 100

72 41.9 22.0 33.0#



#26

2,2-Dichloropropane

Concen: 0.334 ug/l

RT: 4.76 min Scan# 591

Delta R.T. 0.18 min

Lab File: VX004840.D

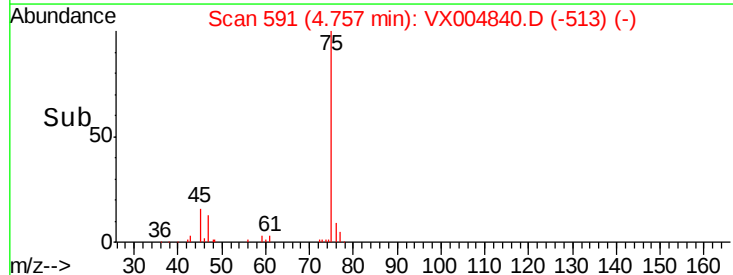
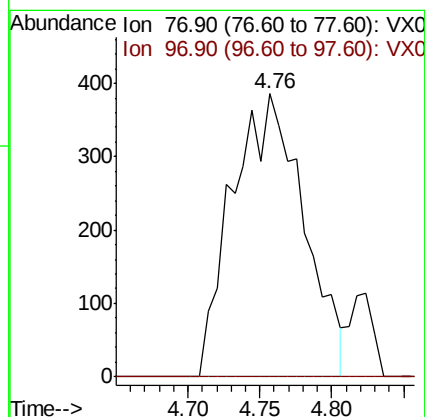
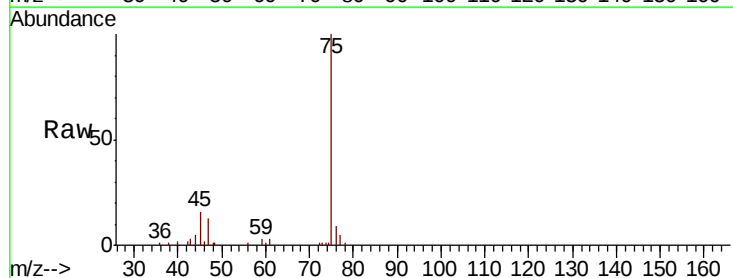
Acq: 29 Sep 2018 00:32

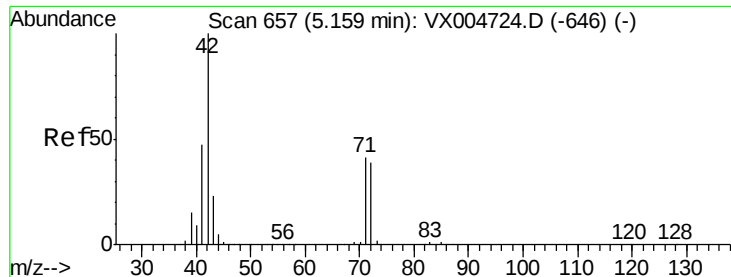
Tgt Ion: 77 Resp: 1328

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#





#29

Tetrahydrofuran

Concen: 0.388 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

EB01-20180924

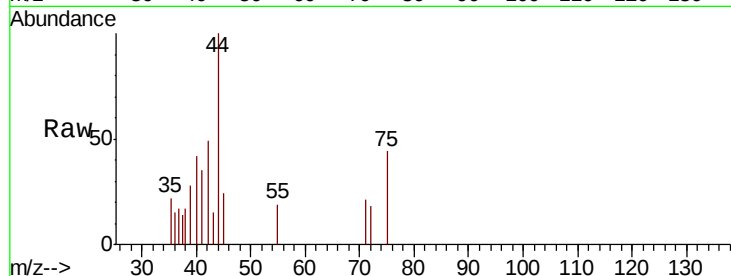
Tot Ion: 42 Resp: 713

Ion Ratio Lower Upper

42 100

72 27.6 37.4 56.0#

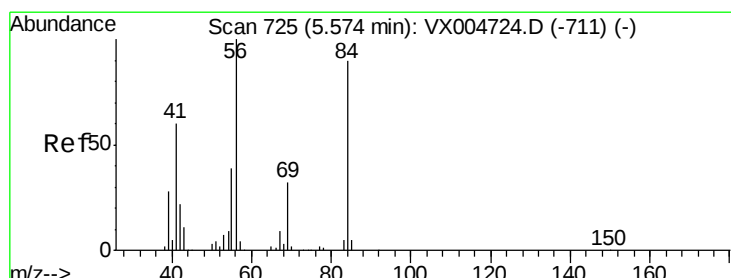
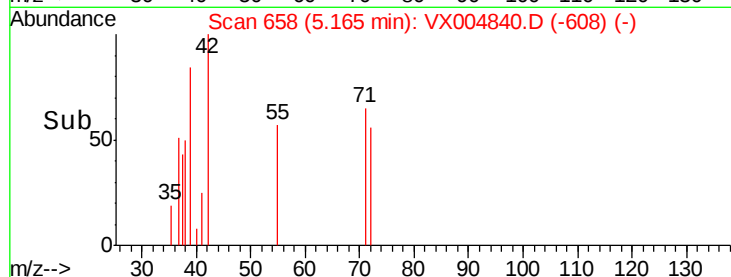
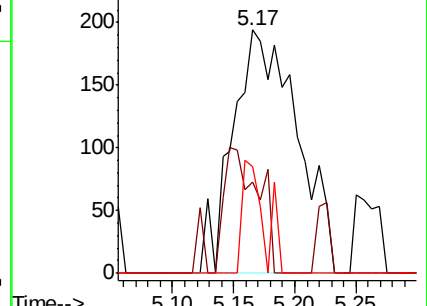
71 11.6 34.5 51.7#



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



#31

Cyclohexane

Concen: 0.935 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

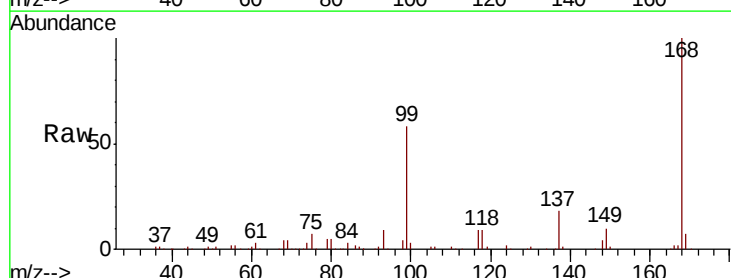
Tgt Ion: 56 Resp: 4085

Ion Ratio Lower Upper

56 100

69 175.3 25.4 38.2#

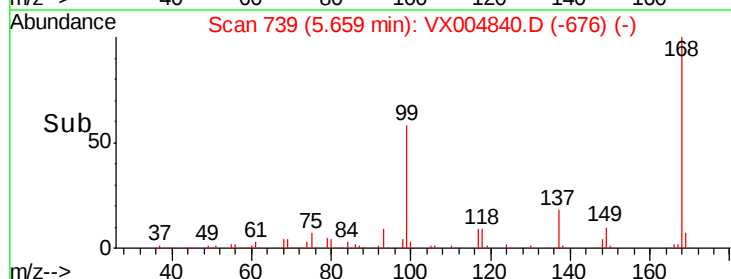
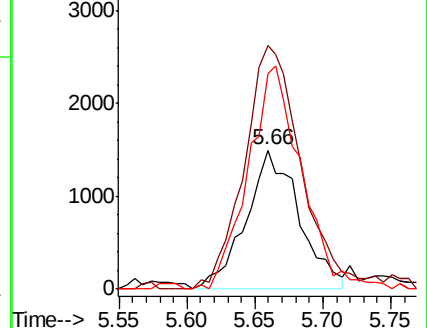
84 154.7 71.4 107.2#

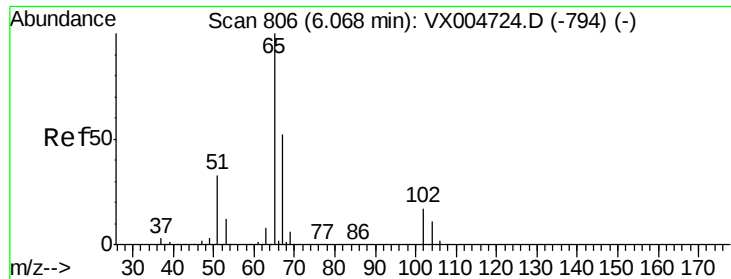


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.811 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

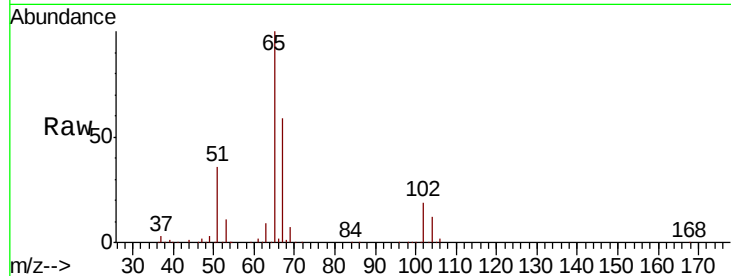
EB01-20180924

Tot Ion: 65 Resp: 181250

Ion Ratio Lower Upper

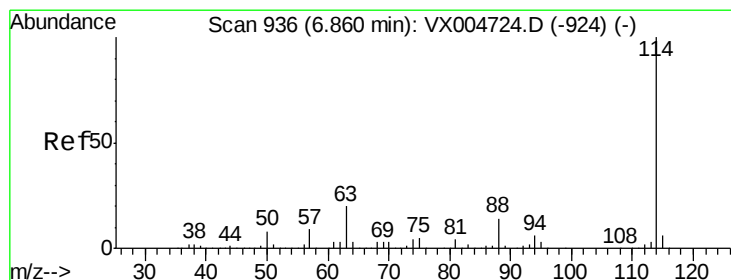
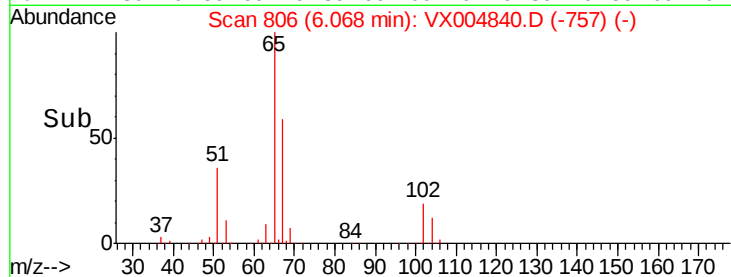
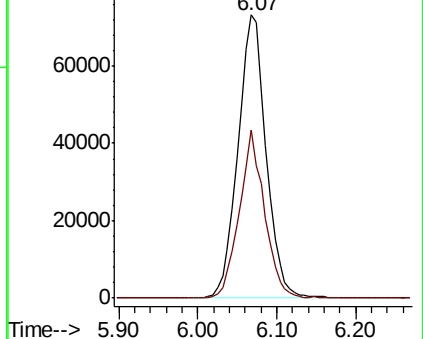
65 100

67 53.0 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

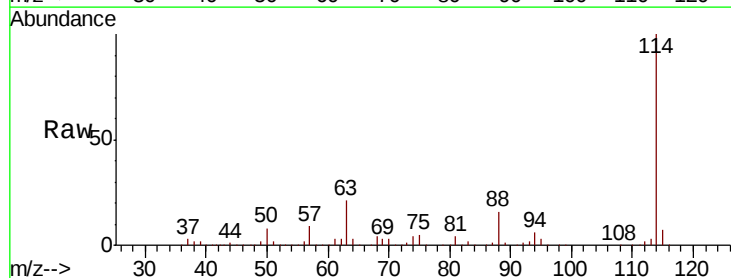
Tgt Ion: 114 Resp: 364024

Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.0

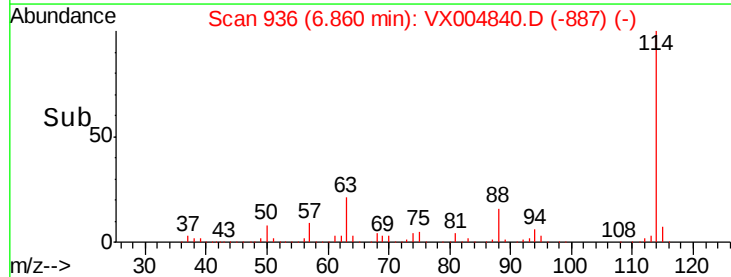
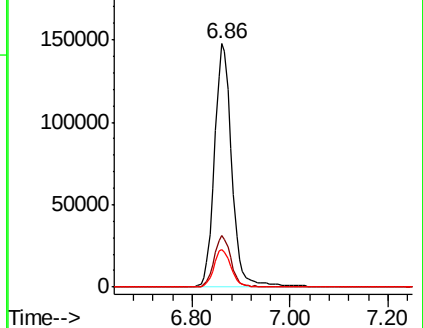
88 15.6 0.0 30.4

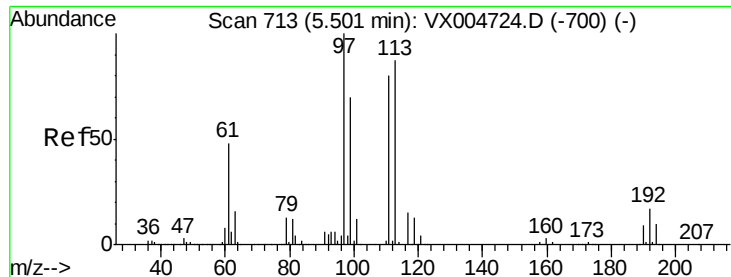


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

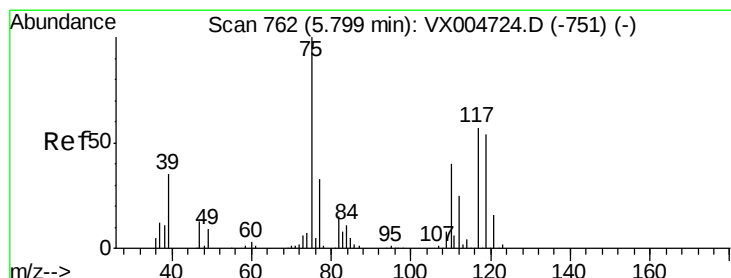
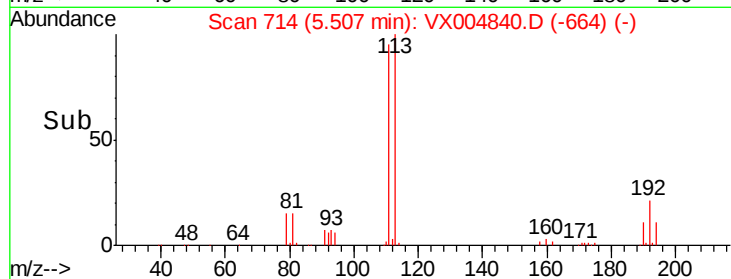
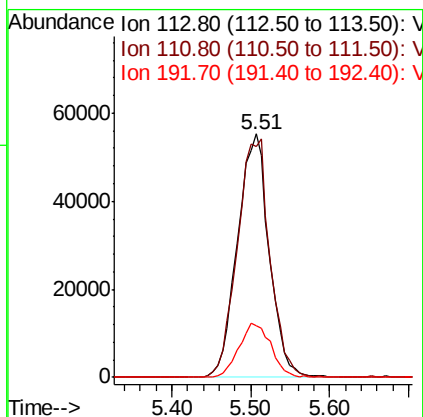
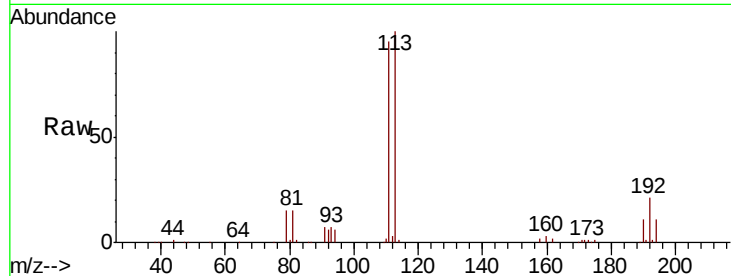




#35
 Dibromofluoromethane
 Concen: 50.061 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004840.D
 Acq: 29 Sep 2018 00:32

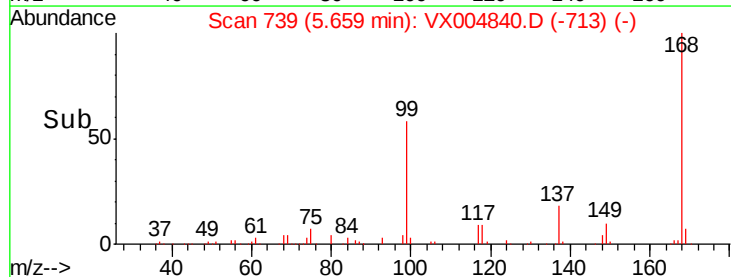
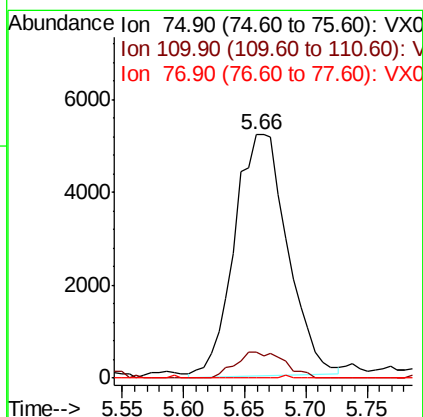
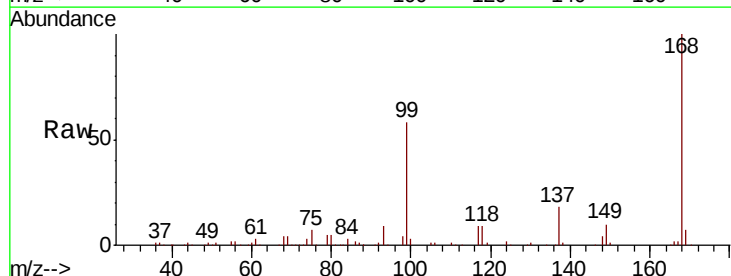
Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-20180924

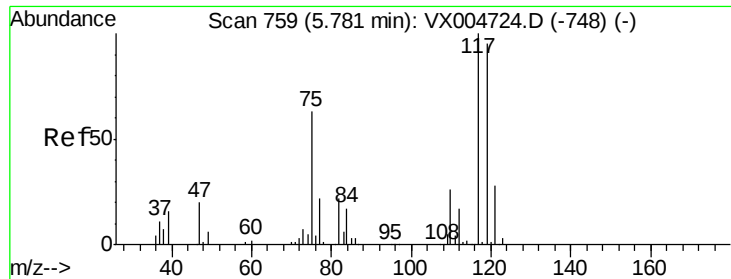
Tot Ion:113 Resp: 154446
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.4 123.6
 192 22.5 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.738 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004840.D
 Acq: 29 Sep 2018 00:32

Tgt Ion: 75 Resp: 15736
 Ion Ratio Lower Upper
 75 100
 110 10.0 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 4.745 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

EB01-20180924

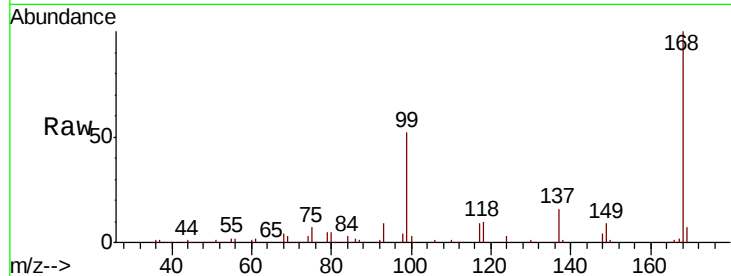
Tot Ion:117 Resp: 20996

Ion Ratio Lower Upper

117 100

119 4.2 78.8 118.2#

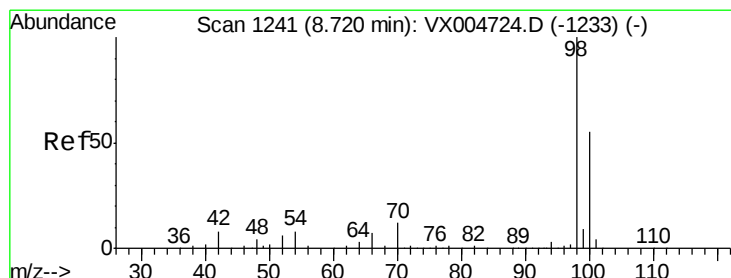
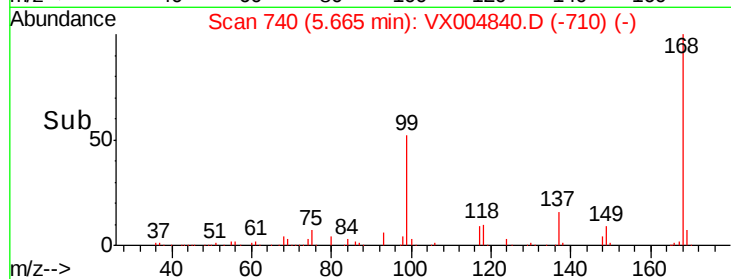
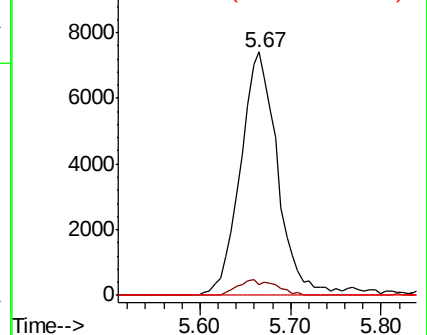
121 0.0 24.9 37.3#



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: 51.261 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX004840.D

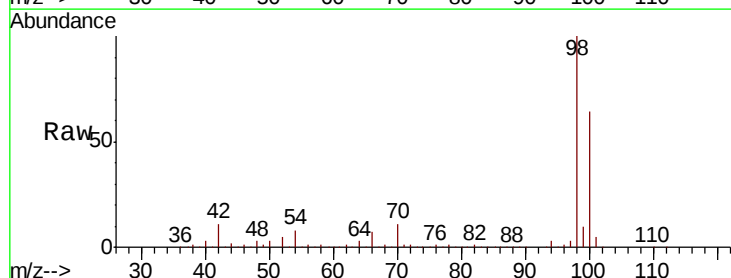
Acq: 29 Sep 2018 00:32

Tgt Ion: 98 Resp: 525761

Ion Ratio Lower Upper

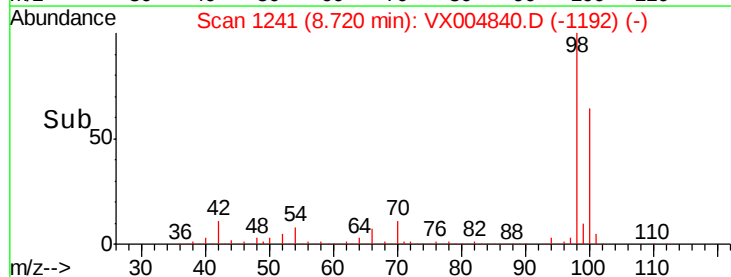
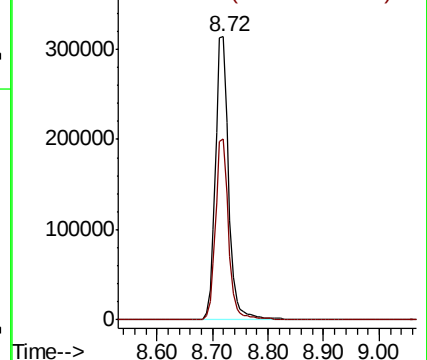
98 100

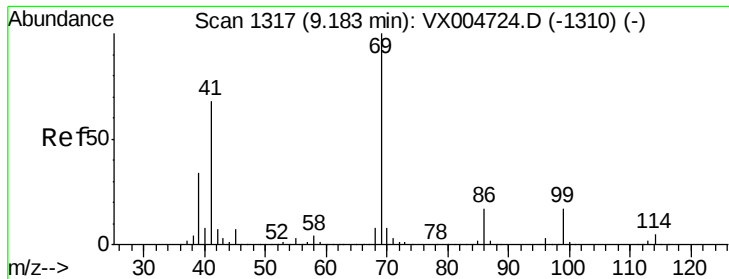
100 63.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

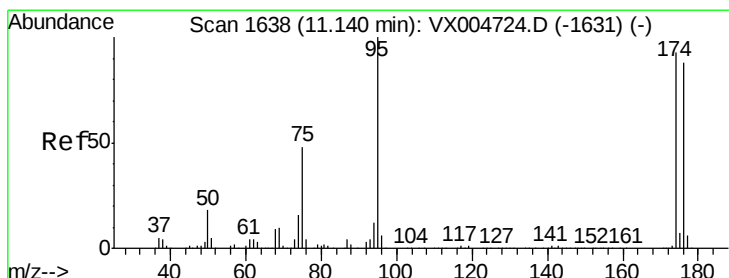
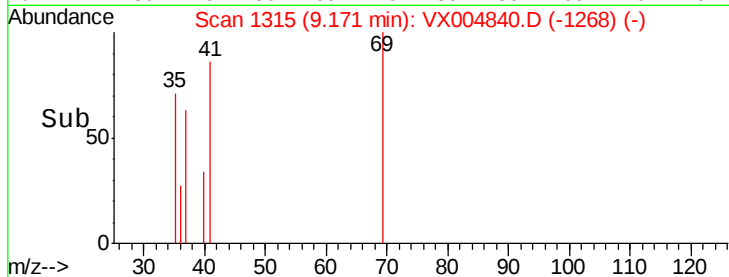
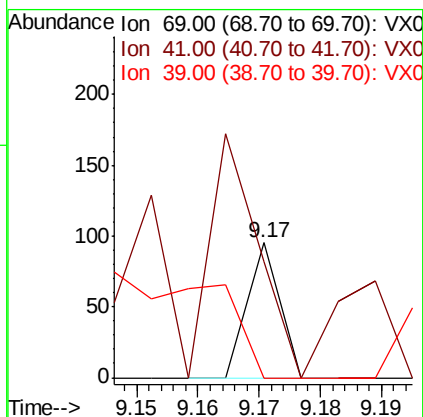
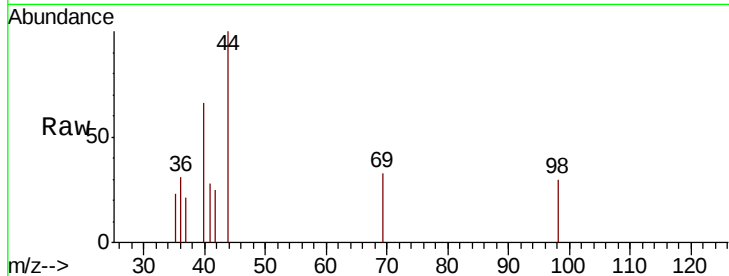




#56
 Ethyl methacrylate
 Concen: 2.868 ug/l
 RT: 9.17 min Scan# 1315
 Delta R.T. -0.01 min
 Lab File: VX004840.D
 Acq: 29 Sep 2018 00:32

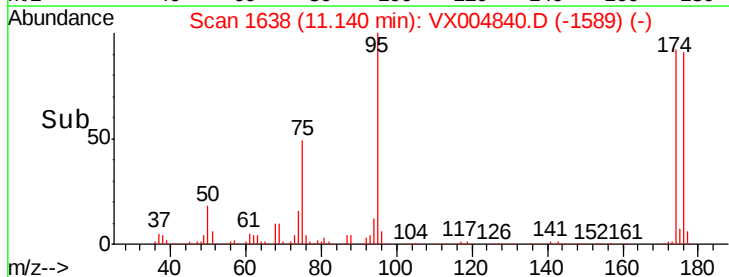
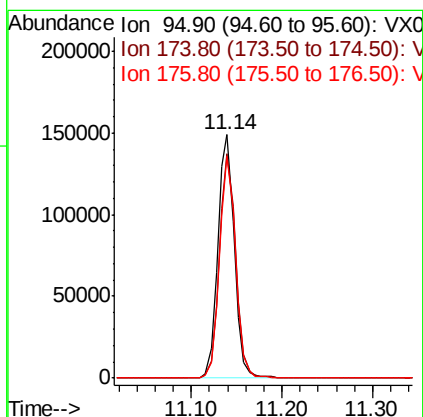
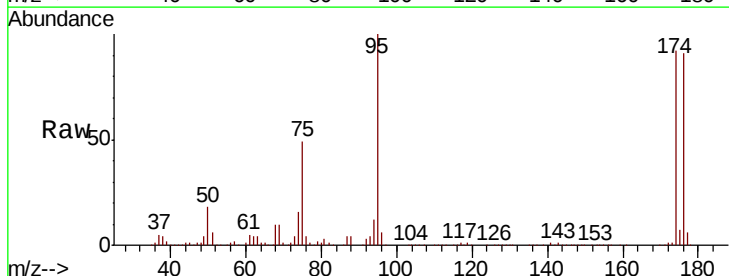
Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-20180924

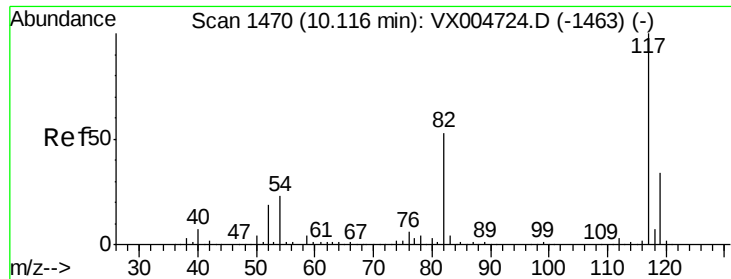
Tot Ion: 69 Resp: 35
 Ion Ratio Lower Upper
 69 100
 41 265.7 51.0 76.4#
 39 0.0 26.1 39.1#



#62
 4-Bromofluorobenzene
 Concen: 51.102 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VX004840.D
 Acq: 29 Sep 2018 00:32

Tgt Ion: 95 Resp: 188822
 Ion Ratio Lower Upper
 95 100
 174 92.0 0.0 185.2
 176 89.2 0.0 178.6

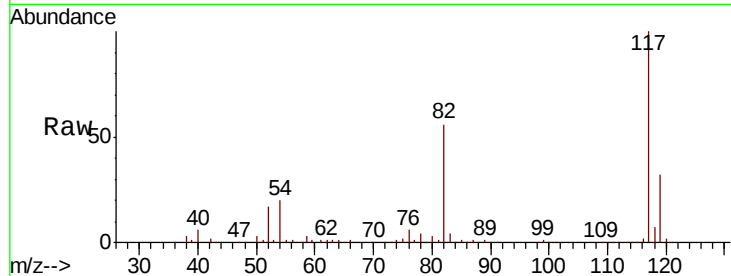




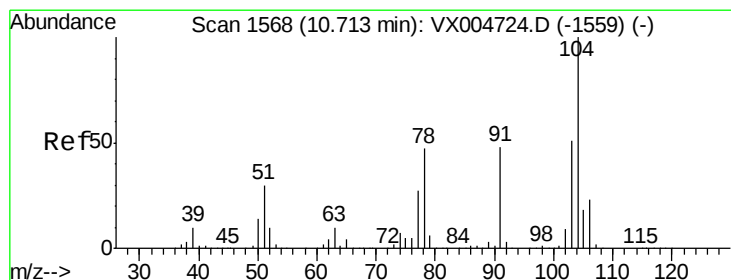
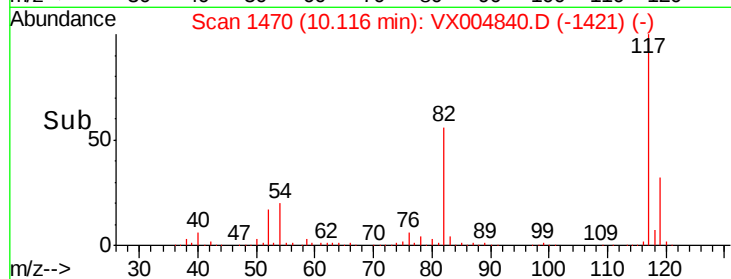
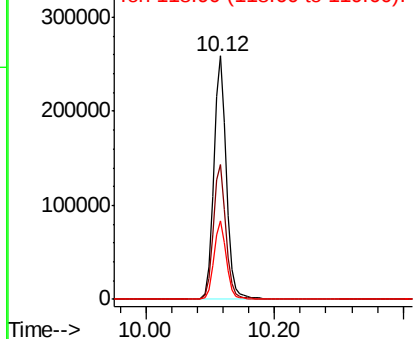
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004840.D
Acq: 29 Sep 2018 00:32

Instrument :
MSVOA_X
ClientSampleId :
EB01-20180924

Tot Ion:117 Resp: 356001
Ion Ratio Lower Upper
117 100
82 55.5 47.8 71.6
119 32.2 29.3 43.9

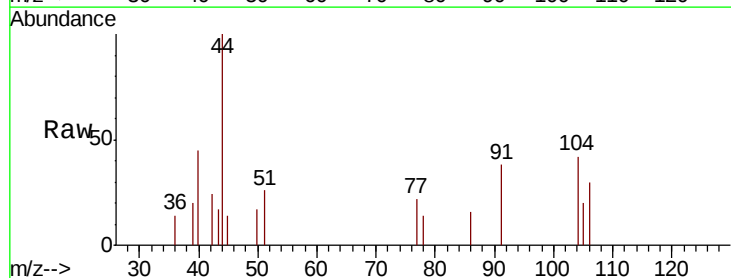


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

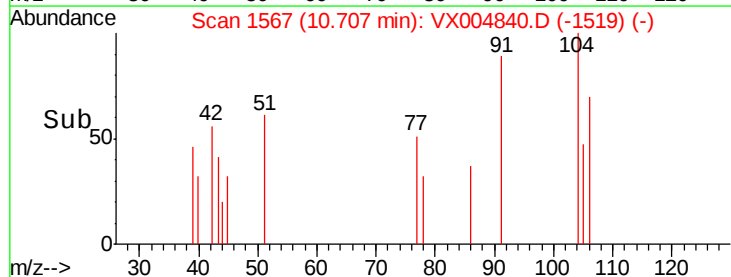
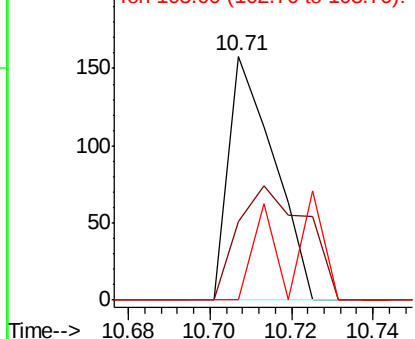


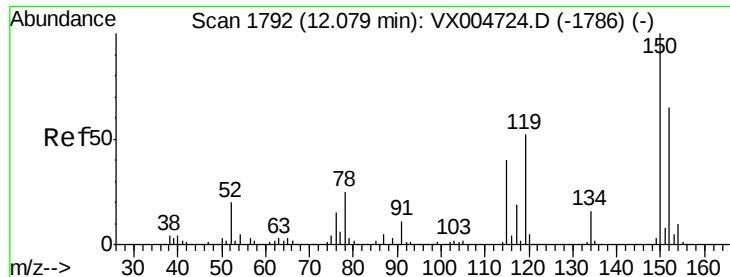
#70
Styrene
Concen: 2.152 ug/l
RT: 10.71 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VX004840.D
Acq: 29 Sep 2018 00:32

Tgt Ion:104 Resp: 122
Ion Ratio Lower Upper
104 100
78 70.5 37.4 56.0#
103 18.9 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

EB01-20180924

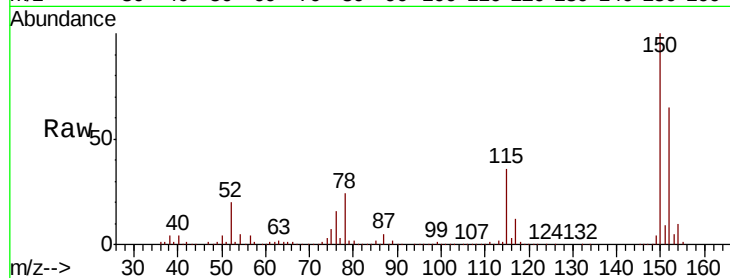
Tot Ion:152 Resp: 196232

Ion Ratio Lower Upper

152 100

115 56.0 39.0 117.0

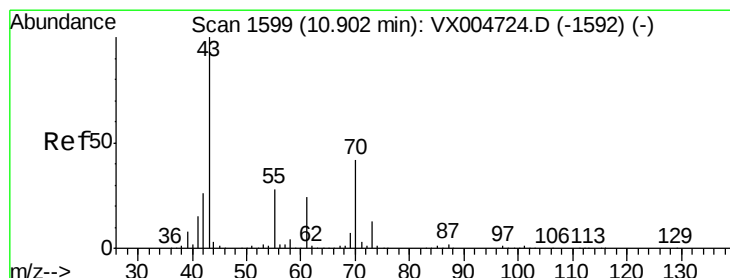
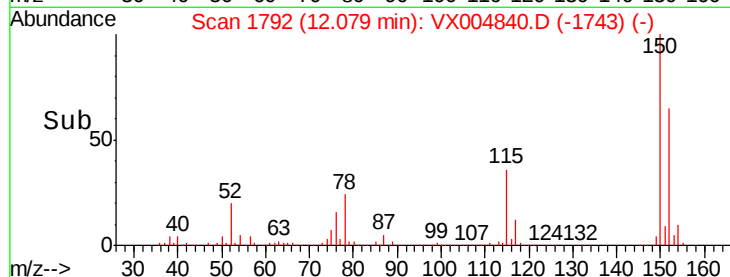
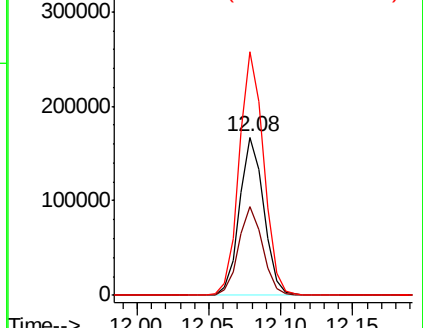
150 155.3 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.752 ug/l

RT: 10.88 min Scan# 1595

Delta R.T. -0.02 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Tgt Ion: 43 Resp: 27

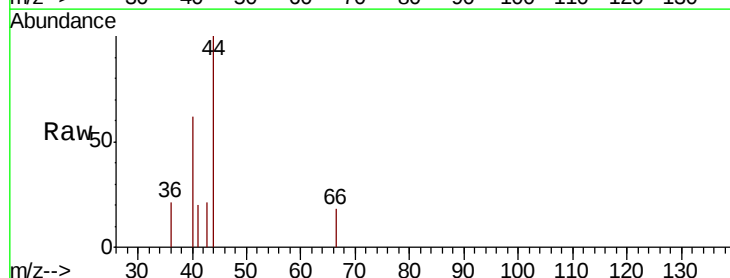
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 0.0 21.8 32.8#

61 0.0 20.6 30.8#

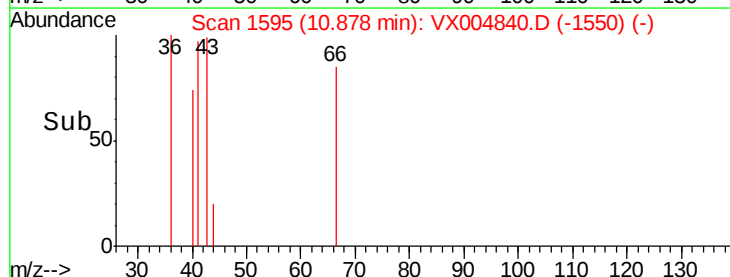
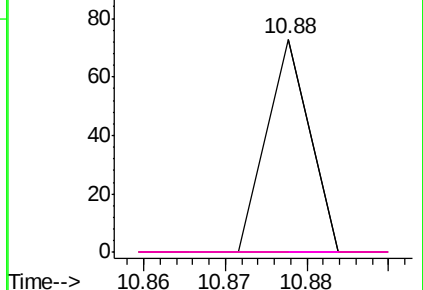


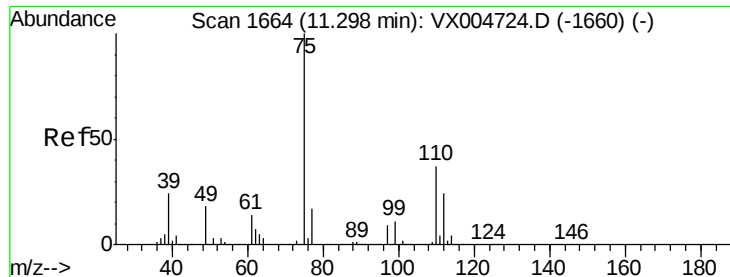
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.201 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

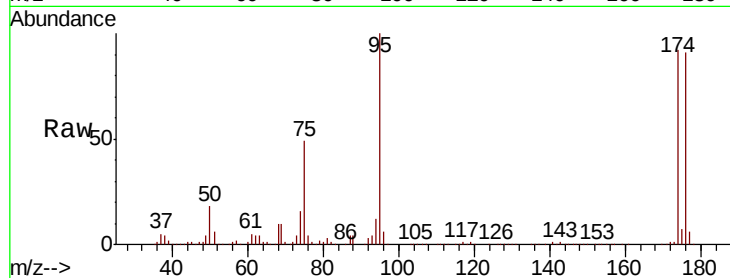
EB01-20180924

Tot Ion: 75 Resp: 93246

Ion Ratio Lower Upper

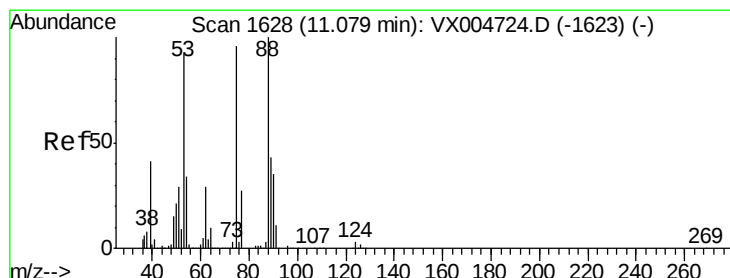
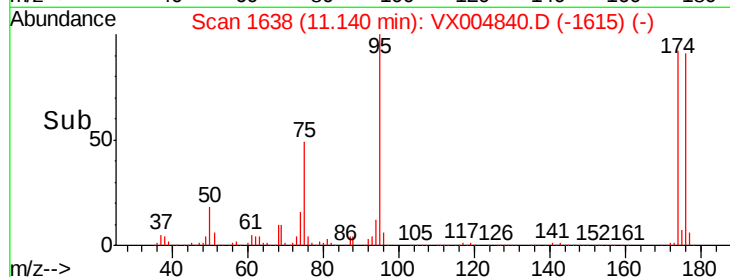
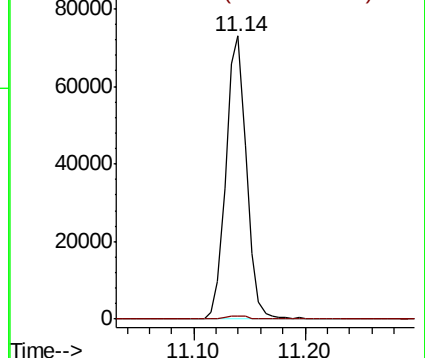
75 100

77 1.4 20.2 60.6#



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: 57.511 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

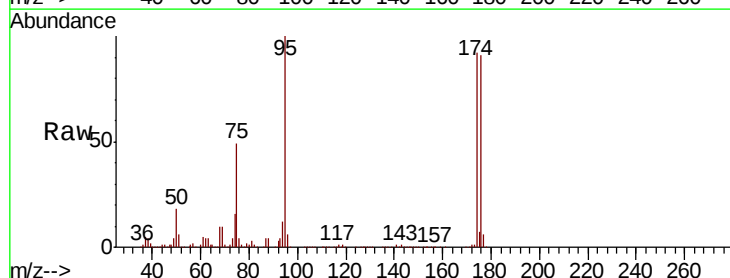
Tgt Ion: 75 Resp: 93246

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

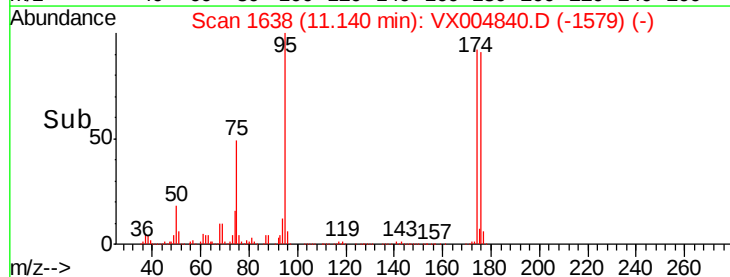
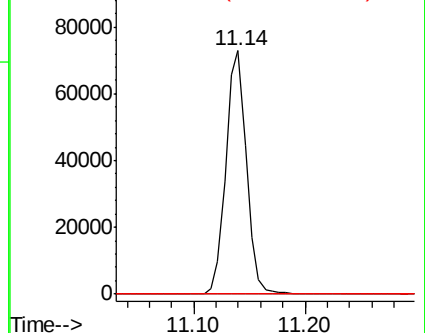
89 0.0 37.2 55.8#

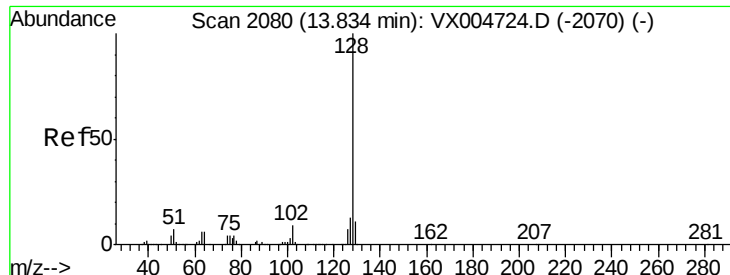


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.770 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004840.D

Acq: 29 Sep 2018 00:32

Instrument :

MSVOA_X

ClientSampleId :

EB01-20180924

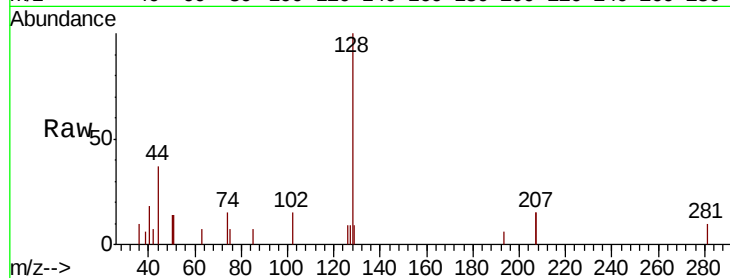
Tot Ion:128 Resp: 841

Ion Ratio Lower Upper

128 100

127 16.4 10.2 15.2#

129 6.8 8.6 12.8#



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

