

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041218\
 Data File : VX000821.D
 Acq On : 13 Apr 2018 00:12
 Operator : JC/MD
 Sample : J2162-06 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EO-01-041118-C

Quant Time: Apr 13 07:00:15 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	278741	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	368192	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	335414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	221195	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	159857	45.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.96%	
35) Dibromofluoromethane	5.51	113	131774	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	
50) Toluene-d8	8.72	98	505975	47.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.80%	
62) 4-Bromofluorobenzene	11.14	95	197668	45.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.46%	

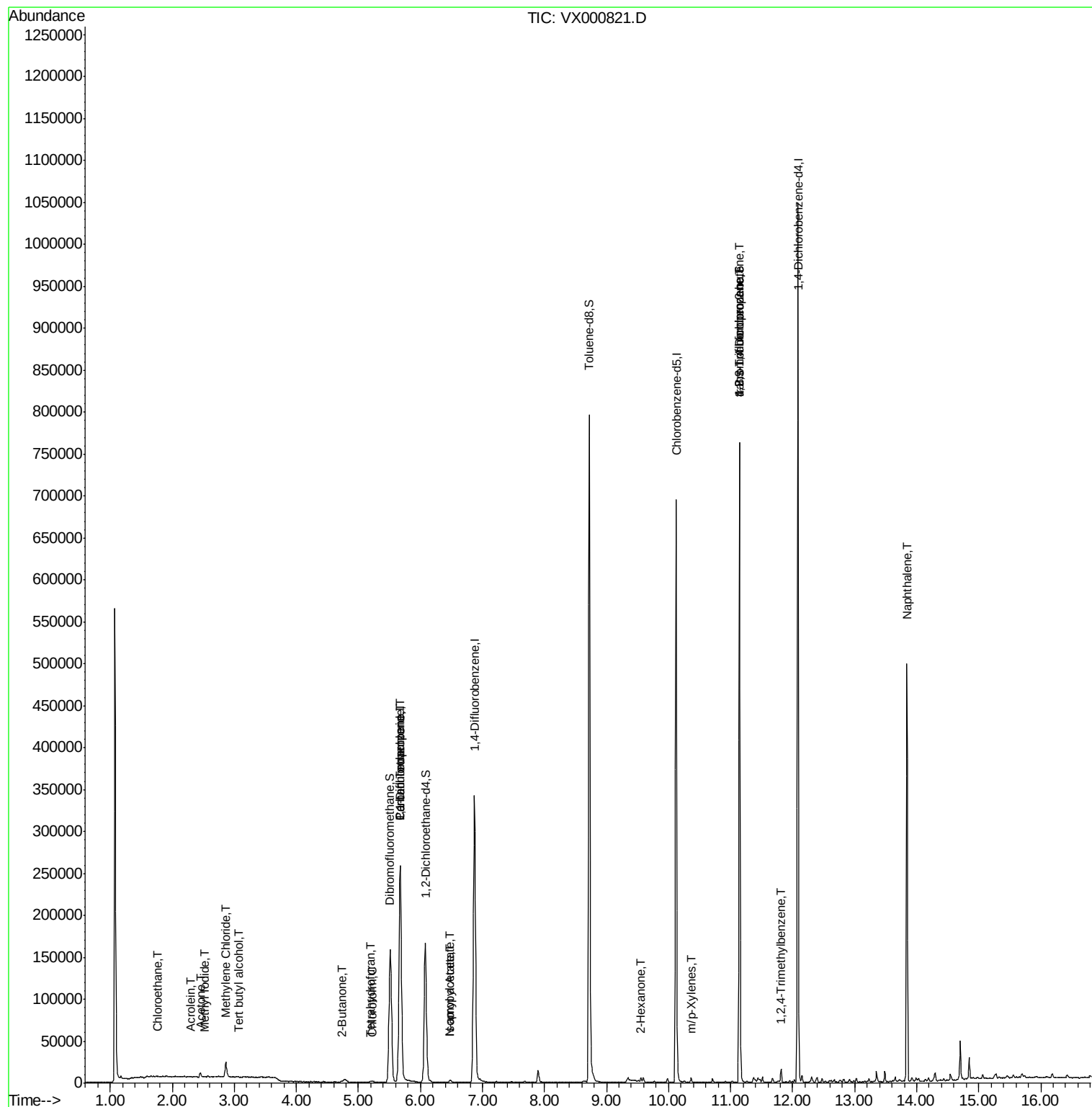
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	389	Below Cal	#	69
6) Chloroethane	1.76	64	450	0.24	ug/l #	51
10) Methyl Iodide	2.53	142	265	8.34	ug/l #	83
11) Tert butyl alcohol	3.07	59	318	0.51	ug/l #	63
13) Acrolein	2.29	56	381	1.26	ug/l #	57
16) Acetone	2.45	43	5325	4.39	ug/l	96
20) Methylene Chloride	2.86	84	8492	3.01	ug/l	90
25) 2-Butanone	4.72	43	1547	0.77	ug/l	99
29) Tetrahydrofuran	5.19	42	342	0.27	ug/l #	61
30) Chloroform	5.22	83	1136	0.22	ug/l #	74
36) 1,1-Dichloropropene	5.67	75	16477	4.06	ug/l #	49
38) Carbon Tetrachloride	5.67	117	24297	5.35	ug/l #	14
43) Isopropyl Acetate	6.48	43	2946	0.43	ug/l	99
59) 2-Hexanone	9.56	43	904	0.29	ug/l	69
68) m/p-Xylenes	10.37	106	1233	0.22	ug/l	87
74) N-amyl acetate	6.48	43	2946	0.47	ug/l #	99
76) 1,2,3-Trichloropropane	11.14	75	96454	25.28	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	96454	69.55	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	7117	0.57	ug/l	97
95) Naphthalene	13.84	128	305992	19.01	ug/l	100

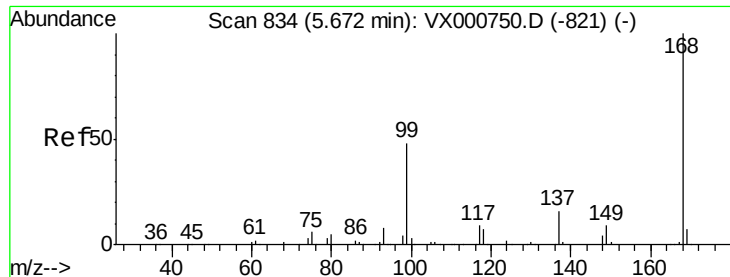
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

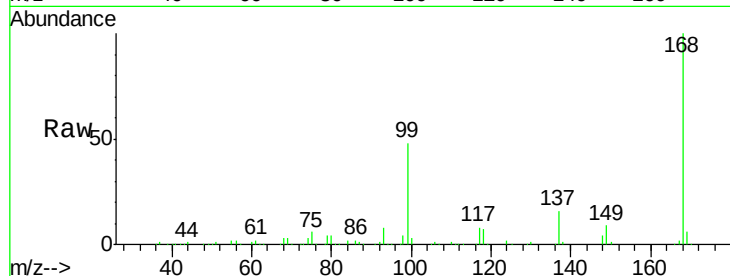
EO-01-041118-C

Tgt Ion: 168 Resp: 278741

Ion Ratio Lower Upper

168 100

99 47.9 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

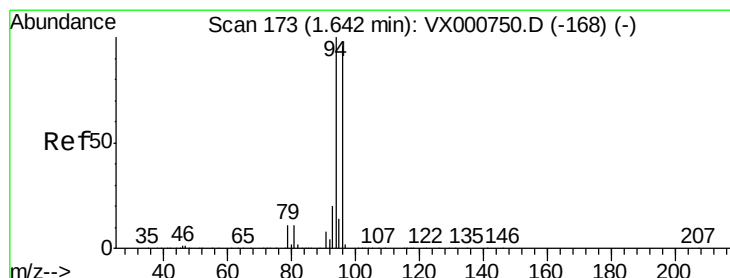
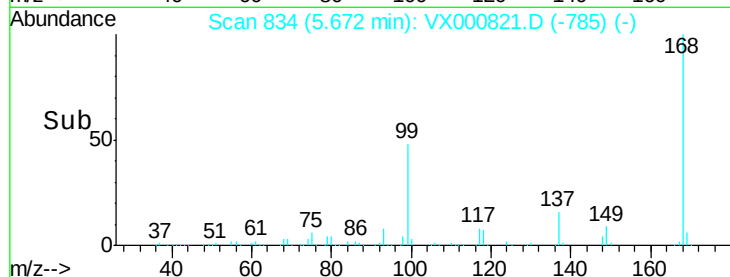
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000821.D

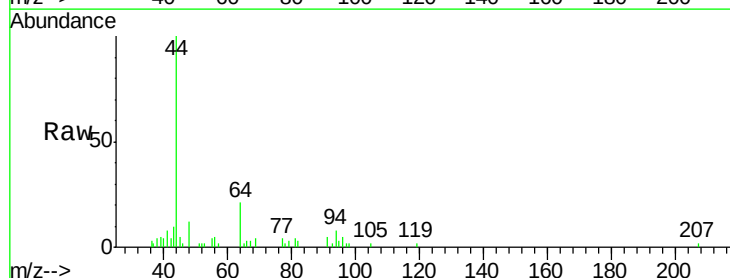
Acq: 13 Apr 2018 00:12

Tgt Ion: 94 Resp: 389

Ion Ratio Lower Upper

94 100

96 66.4 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

250

200

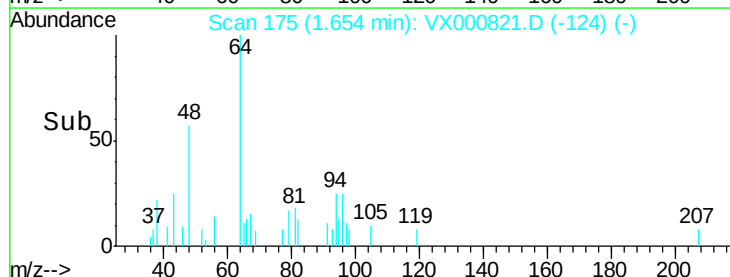
150

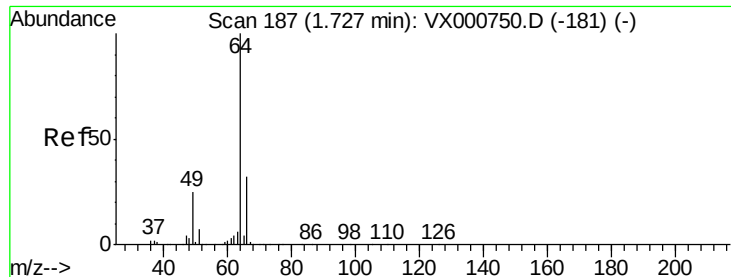
100

50

0

Time--> 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.24 ug/l

RT: 1.76 min Scan# 193

Delta R.T. 0.04 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

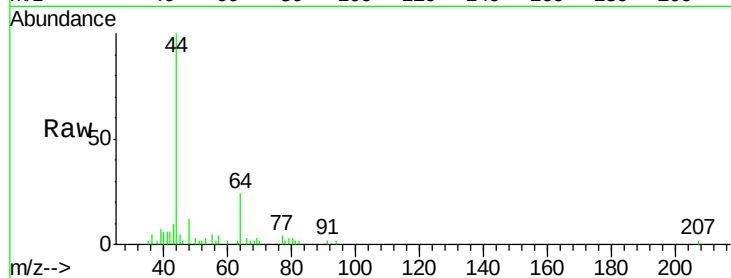
EO-01-041118-C

Tgt Ion: 64 Resp: 450

Ion Ratio Lower Upper

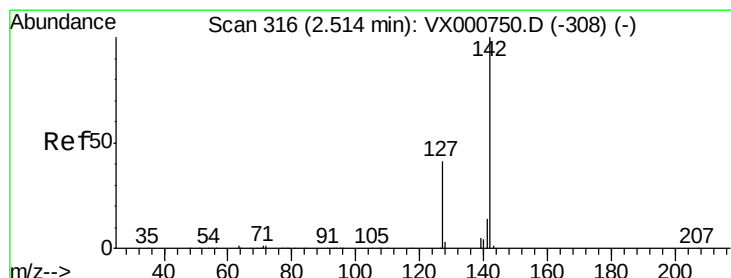
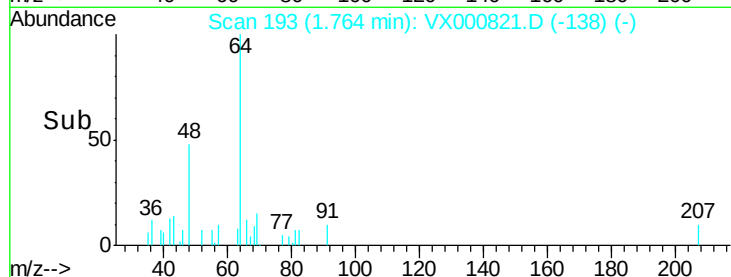
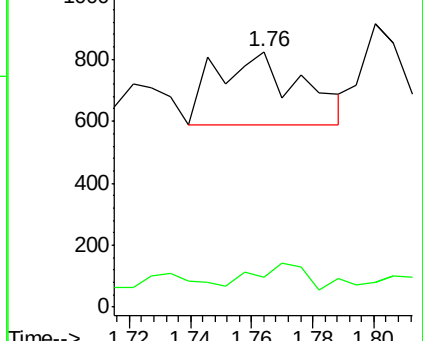
64 100

66 4.2 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX000750.D (-181) (-)

Ion 65.90 (65.60 to 66.60): VX000750.D (-181) (-)



#10

Methyl Iodide

Concen: 8.34 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

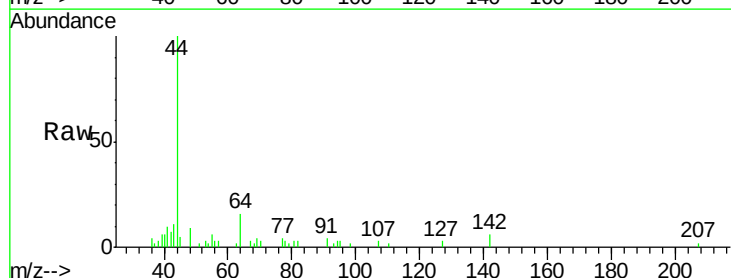
Tgt Ion: 142 Resp: 265

Ion Ratio Lower Upper

142 100

127 34.3 32.6 49.0

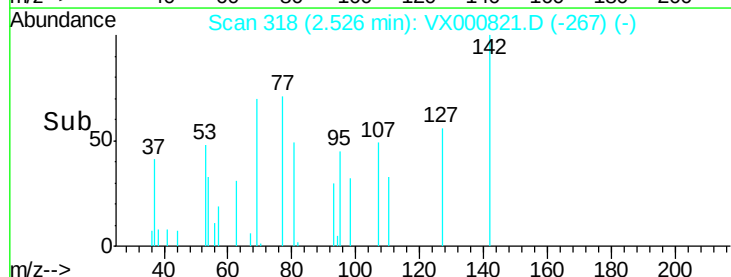
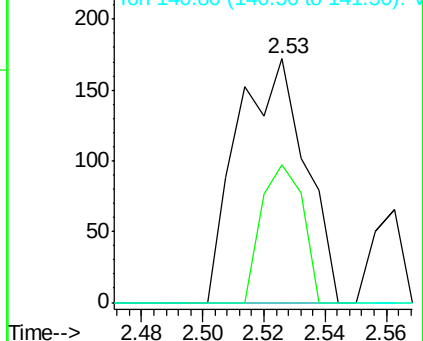
141 0.0 11.5 17.3#

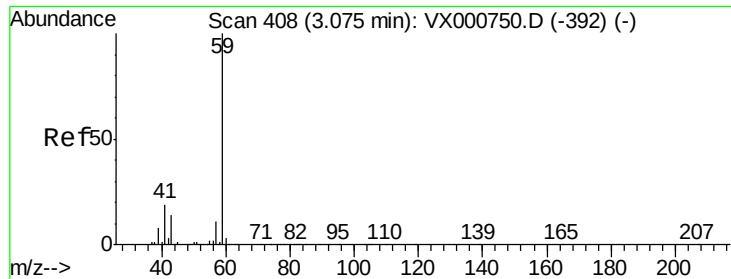


Abundance Ion 141.80 (141.50 to 142.50): VX000750.D (-308) (-)

Ion 126.80 (126.50 to 127.50): VX000750.D (-308) (-)

Ion 140.80 (140.50 to 141.50): VX000750.D (-308) (-)

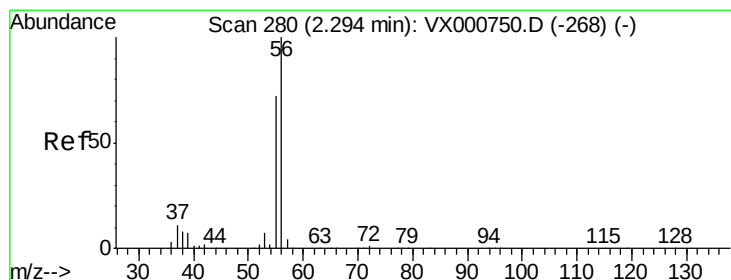
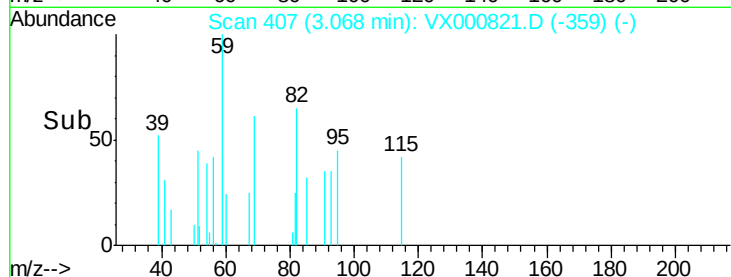
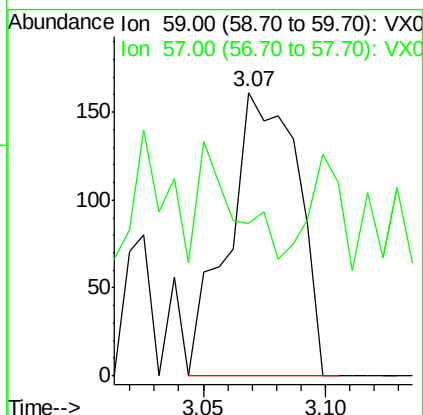
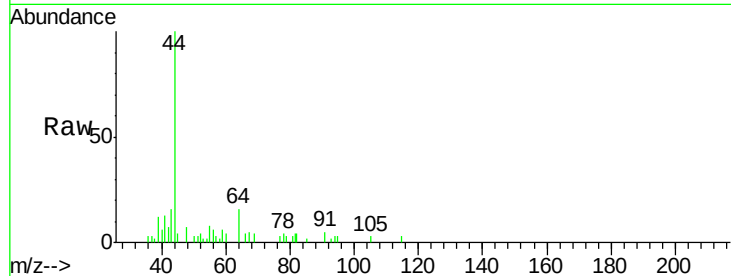




#11
Tert butyl alcohol
Concen: 0.51 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX000821.D
Acq: 13 Apr 2018 00:12

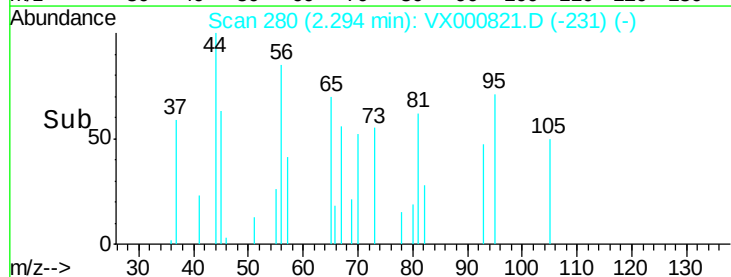
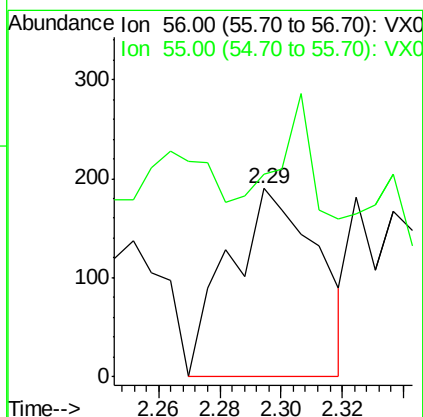
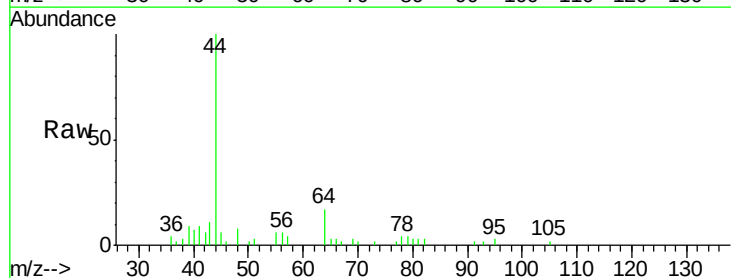
Instrument :
MSVOA_X
ClientSampleId :
EO-01-041118-C

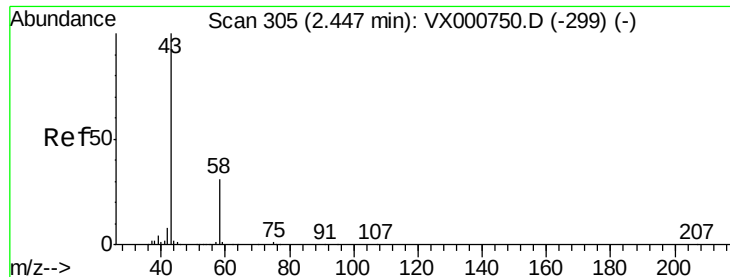
Tgt Ion: 59 Resp: 318
Ion Ratio Lower Upper
59 100
57 24.5 8.4 12.6#



#13
Acrolein
Concen: 1.26 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX000821.D
Acq: 13 Apr 2018 00:12

Tgt Ion: 56 Resp: 381
Ion Ratio Lower Upper
56 100
55 37.5 58.7 88.1#





#16

Acetone

Concen: 4.39 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

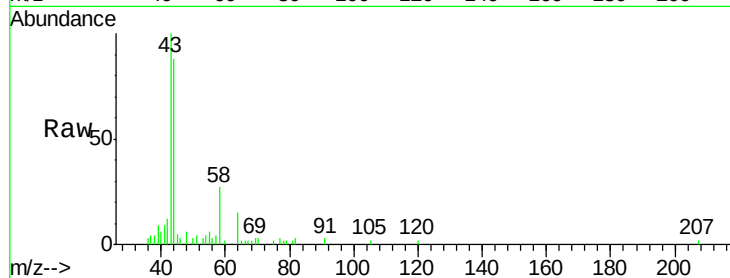
EO-01-041118-C

Tgt Ion: 43 Resp: 5325

Ion Ratio Lower Upper

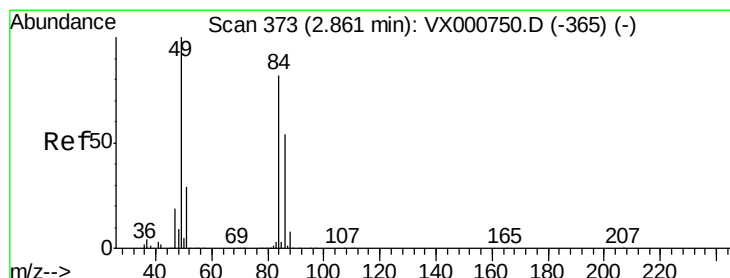
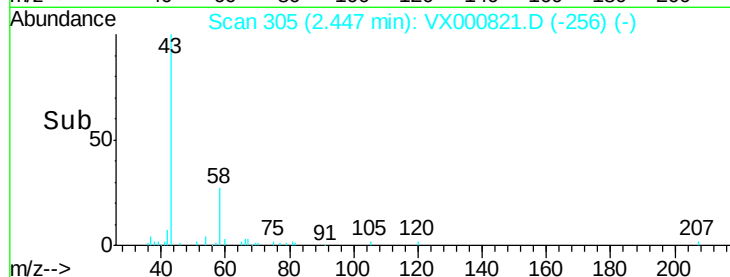
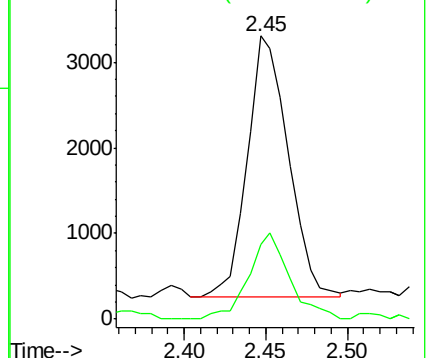
43 100

58 28.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 3.01 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Tgt Ion: 84 Resp: 8492

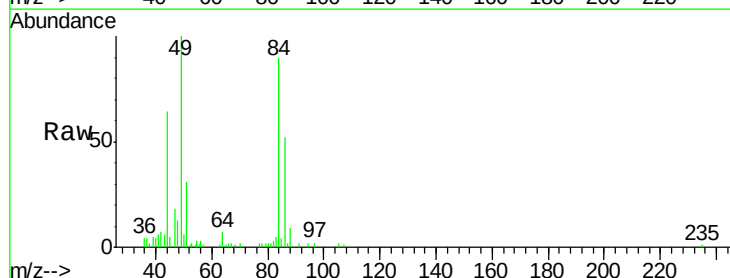
Ion Ratio Lower Upper

84 100

49 110.8 98.1 147.1

51 32.6 28.9 43.3

86 57.3 52.7 79.1

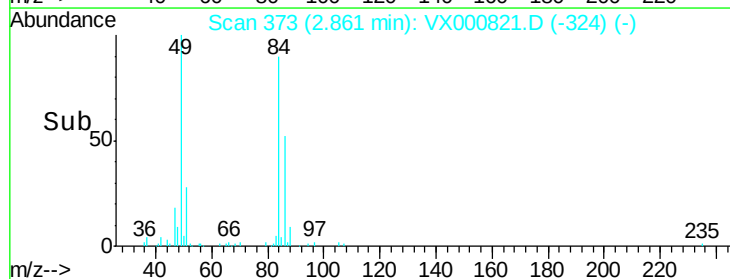
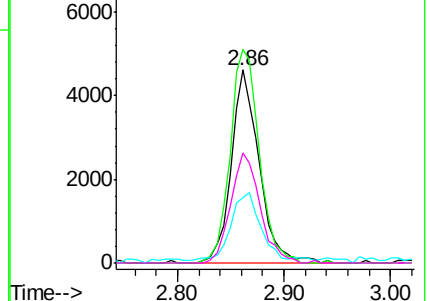


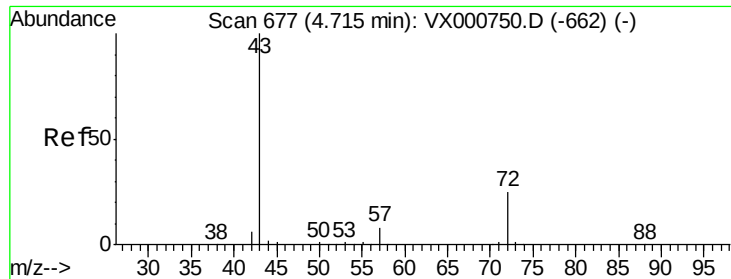
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.77 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

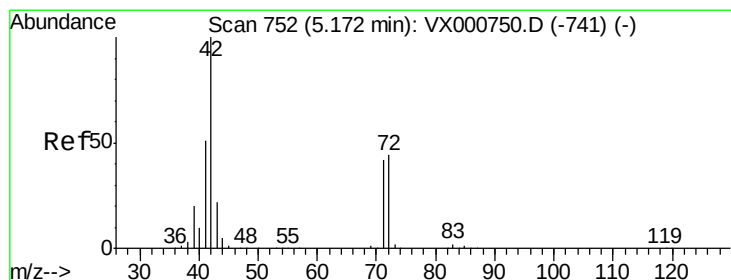
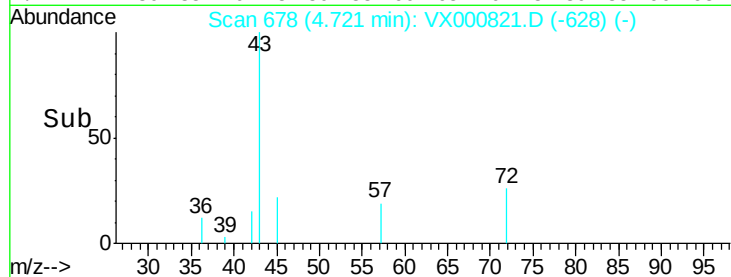
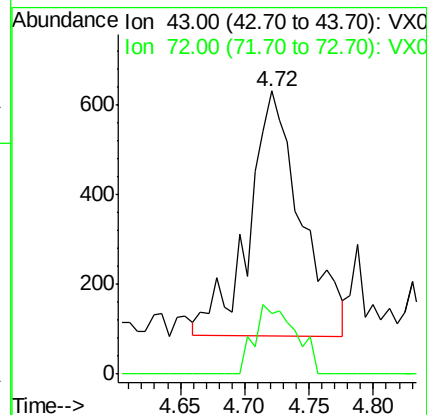
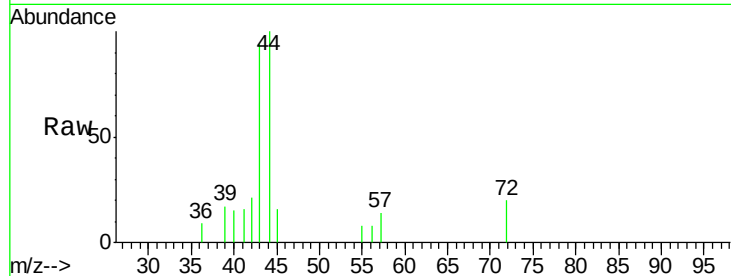
EO-01-041118-C

Tgt Ion: 43 Resp: 1547

Ion Ratio Lower Upper

43 100

72 25.9 20.3 30.5



#29

Tetrahydrofuran

Concen: 0.27 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

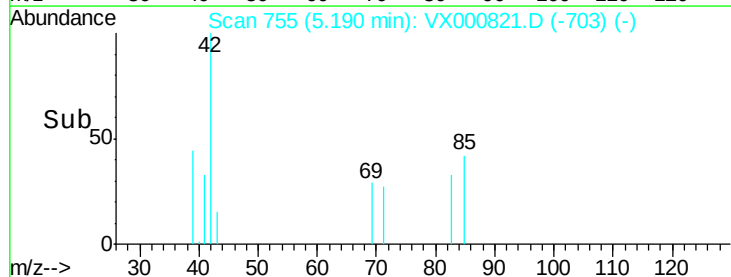
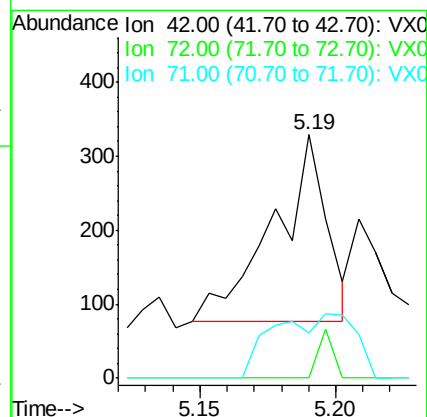
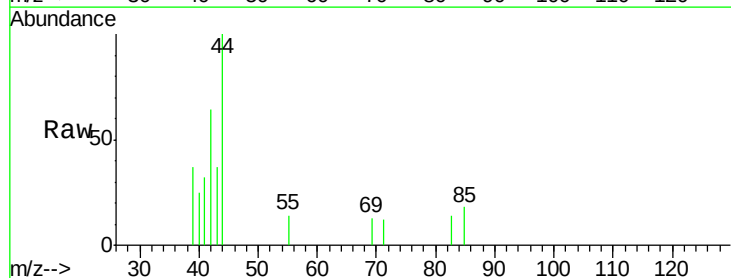
Tgt Ion: 42 Resp: 342

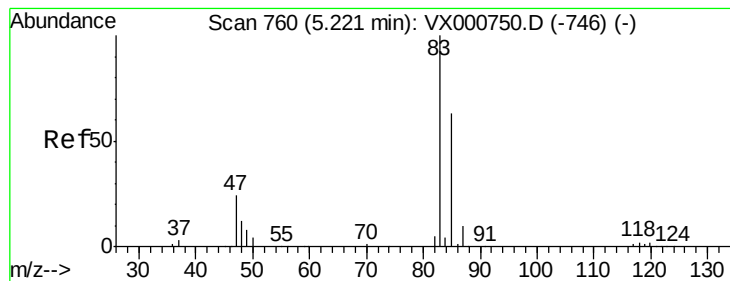
Ion Ratio Lower Upper

42 100

72 7.3 35.1 52.7#

71 53.2 32.8 49.2#





#30

Chloroform

Concen: 0.22 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.00 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

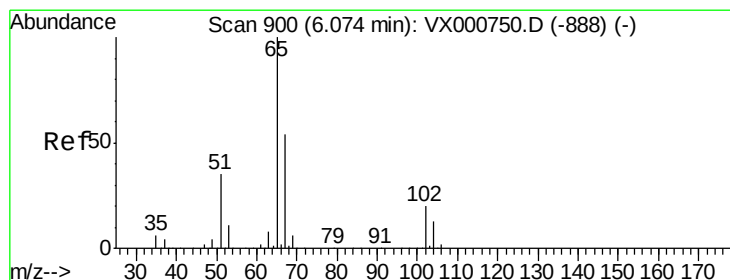
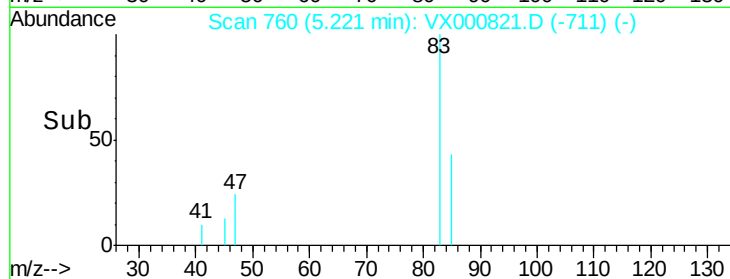
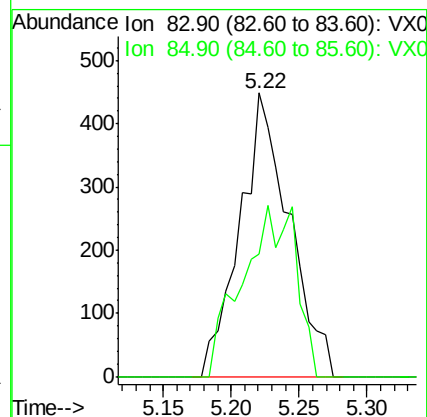
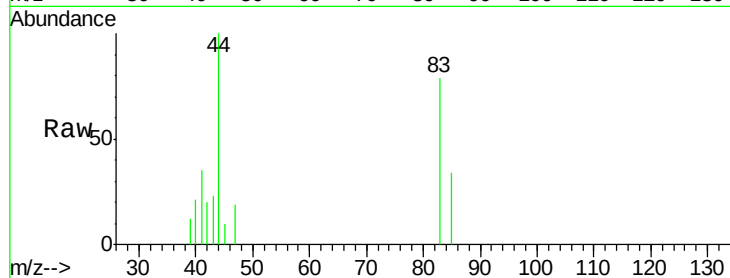
EO-01-041118-C

Tgt Ion: 83 Resp: 1136

Ion Ratio Lower Upper

83 100

85 43.1 50.7 76.1#



#33

1,2-Dichloroethane-d4

Concen: 45.48 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000821.D

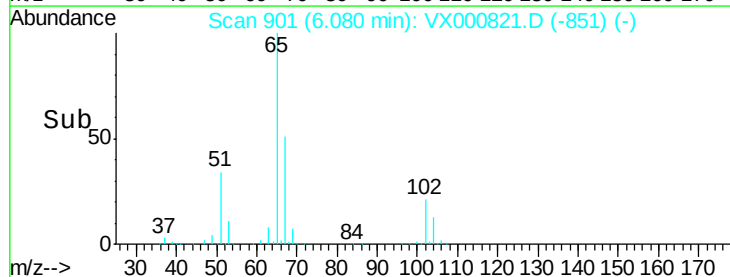
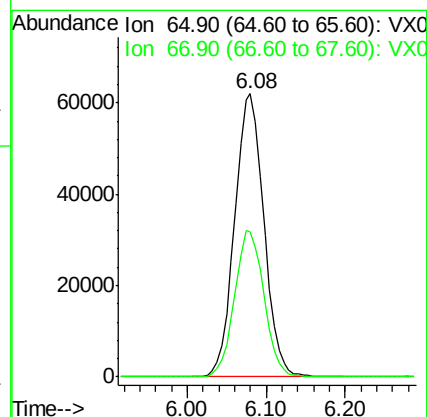
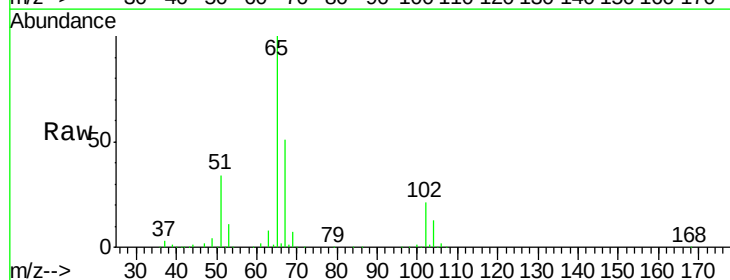
Acq: 13 Apr 2018 00:12

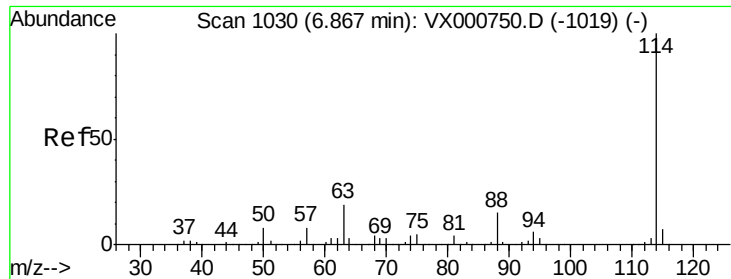
Tgt Ion: 65 Resp: 159857

Ion Ratio Lower Upper

65 100

67 52.0 0.0 103.8

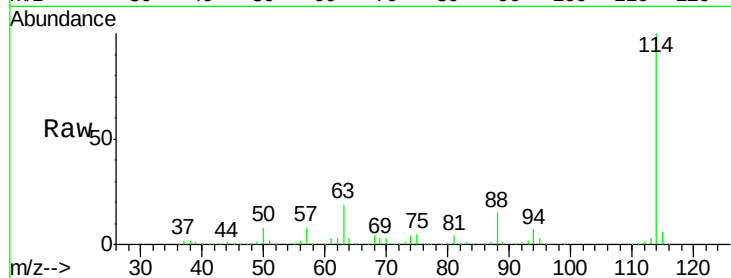




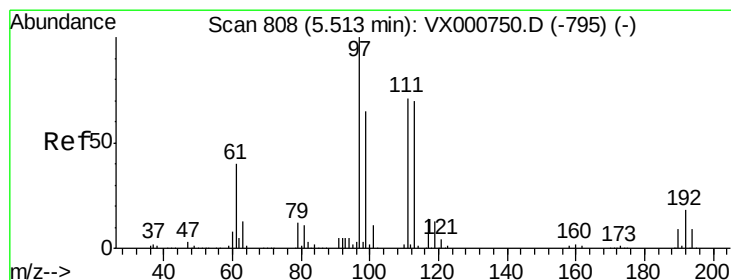
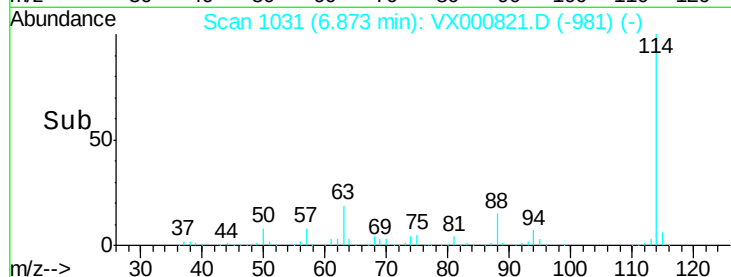
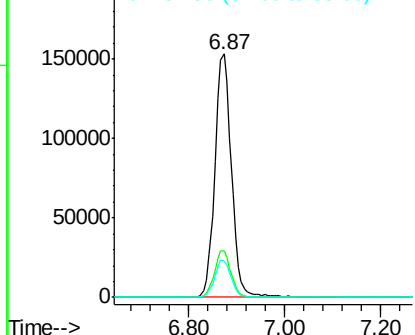
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX000821.D
 Acq: 13 Apr 2018 00:12

Instrument :
 MSVOA_X
 ClientSampleId :
 EO-01-041118-C

Tgt Ion:114 Resp: 368192
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.4
 88 14.8 0.0 31.0

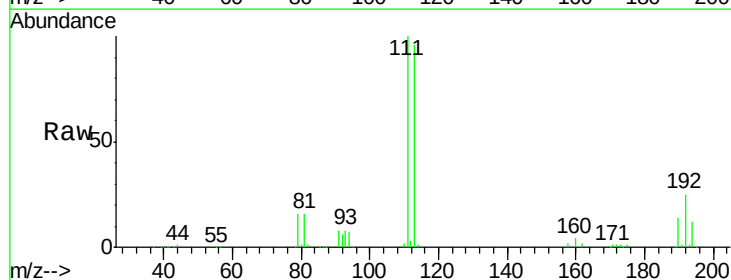


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

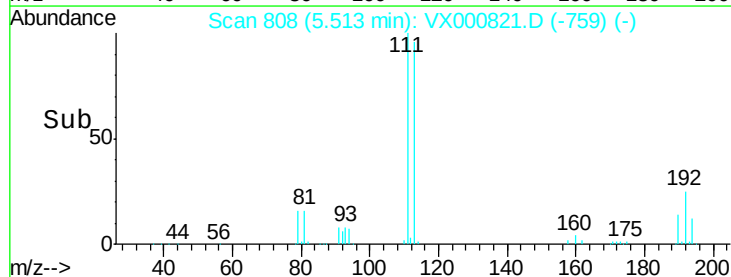
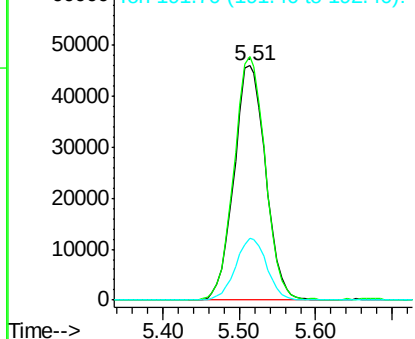


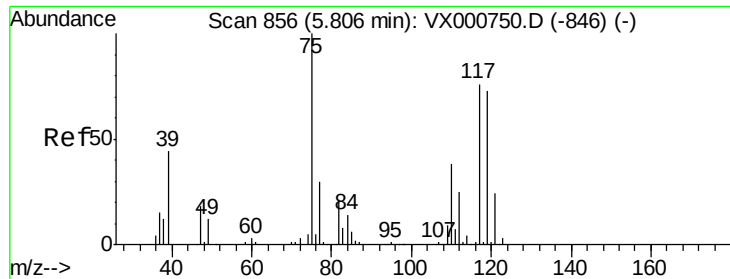
#35
 Dibromofluoromethane
 Concen: 46.45 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX000821.D
 Acq: 13 Apr 2018 00:12

Tgt Ion:113 Resp: 131774
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.5 122.3
 192 26.1 20.4 30.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.06 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

EO-01-041118-C

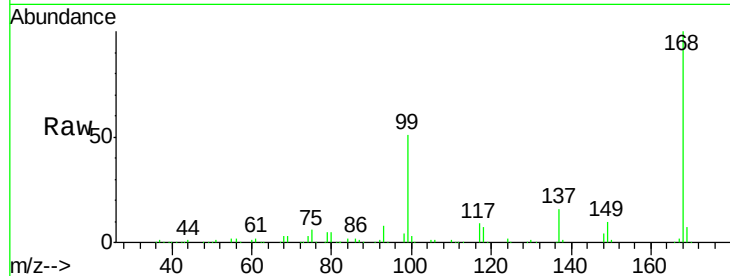
Tgt Ion: 75 Resp: 16477

Ion Ratio Lower Upper

75 100

110 10.6 19.2 57.6#

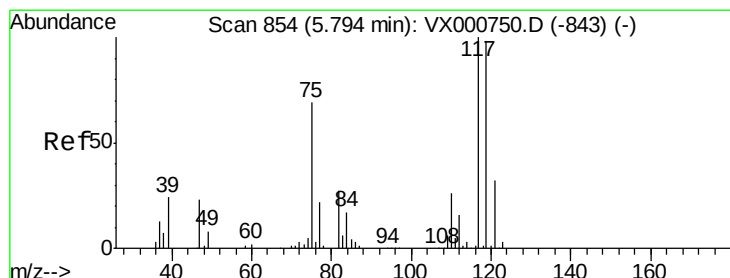
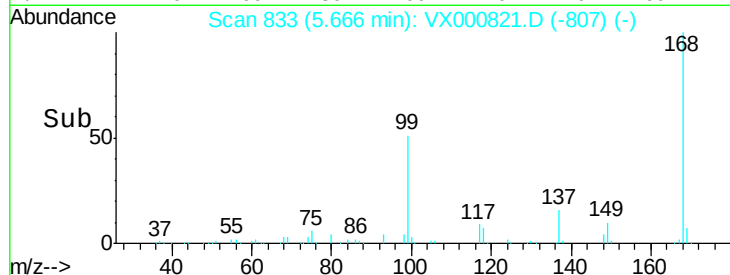
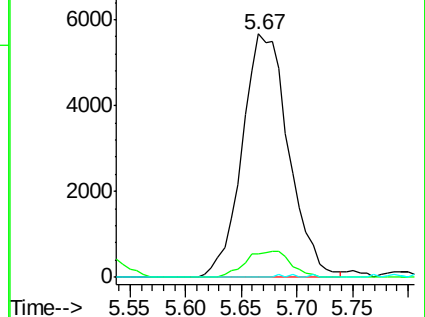
77 0.1 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX000821.D (-807) (-)

Ion 109.90 (109.60 to 110.60): VX000821.D (-807) (-)

Ion 76.90 (76.60 to 77.60): VX000821.D (-807) (-)



#38

Carbon Tetrachloride

Concen: 5.35 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

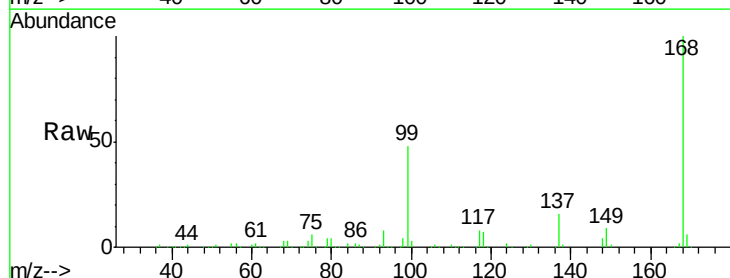
Tgt Ion: 117 Resp: 24297

Ion Ratio Lower Upper

117 100

119 4.1 78.4 117.6#

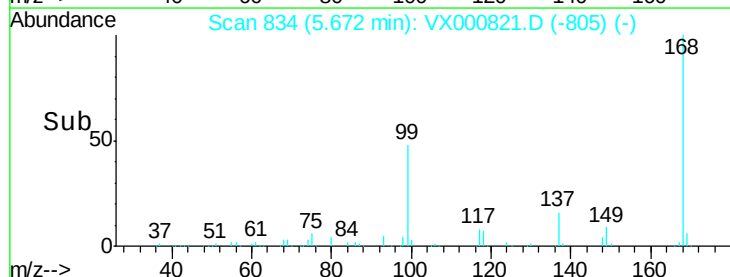
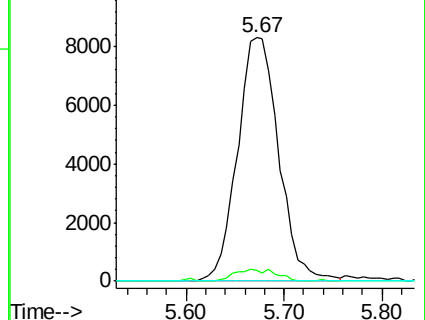
121 0.0 25.4 38.0#

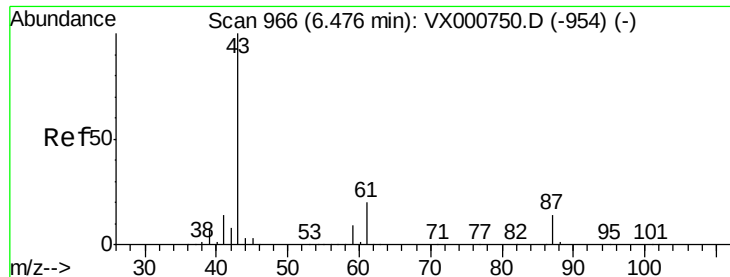


Abundance Ion 116.80 (116.50 to 117.50): VX000821.D (-805) (-)

Ion 118.80 (118.50 to 119.50): VX000821.D (-805) (-)

Ion 120.80 (120.50 to 121.50): VX000821.D (-805) (-)





#43

Isopropyl Acetate

Concen: 0.43 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

EO-01-041118-C

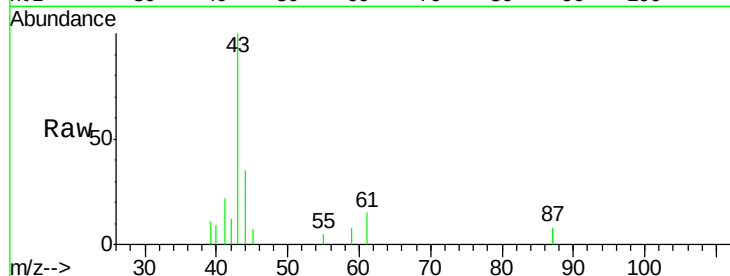
Tgt Ion: 43 Resp: 2946

Ion Ratio Lower Upper

43 100

61 19.9 15.6 23.4

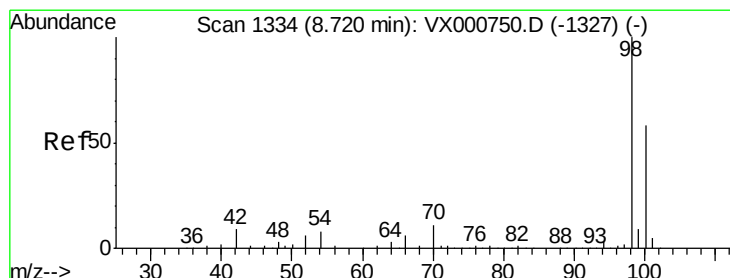
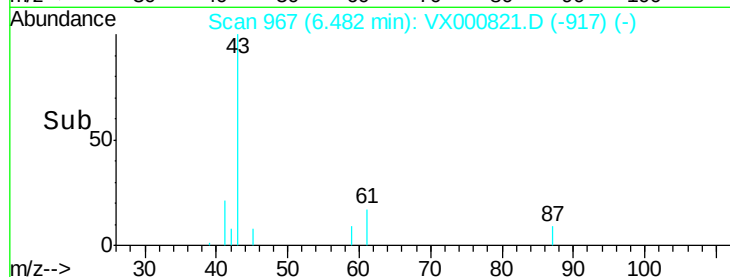
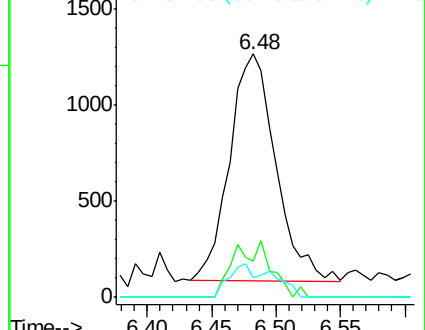
87 13.8 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 47.90 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX000821.D

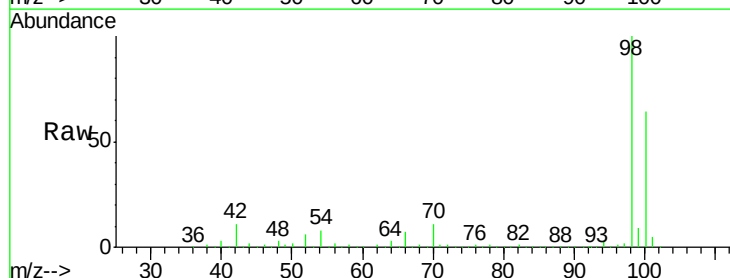
Acq: 13 Apr 2018 00:12

Tgt Ion: 98 Resp: 505975

Ion Ratio Lower Upper

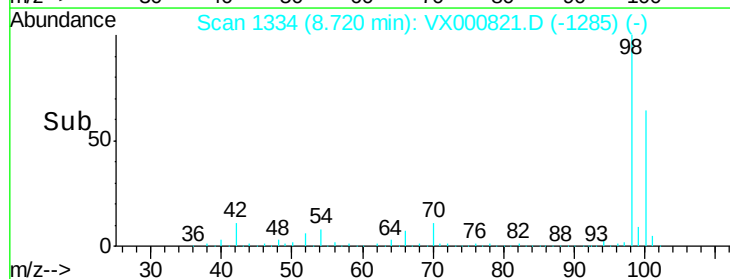
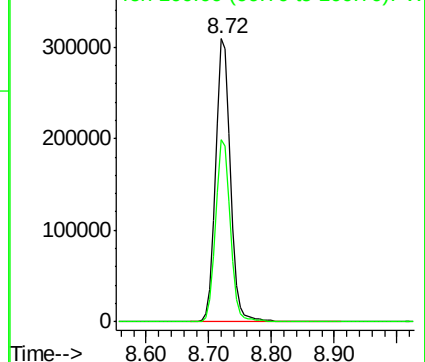
98 100

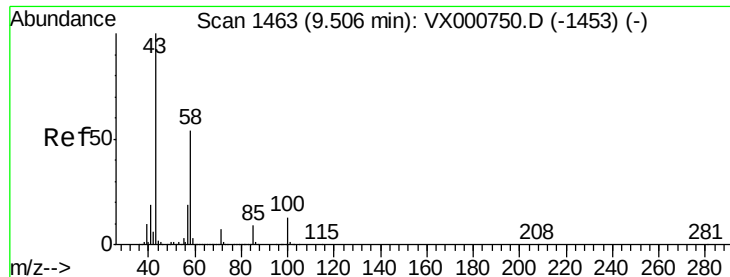
100 64.4 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

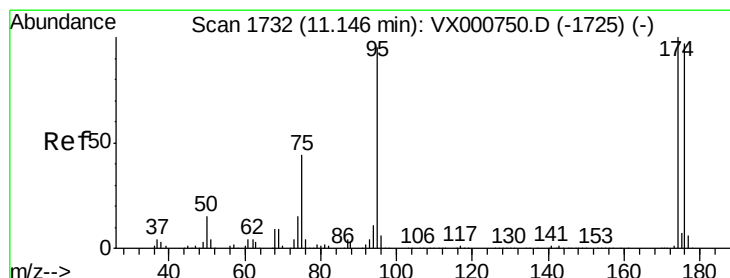
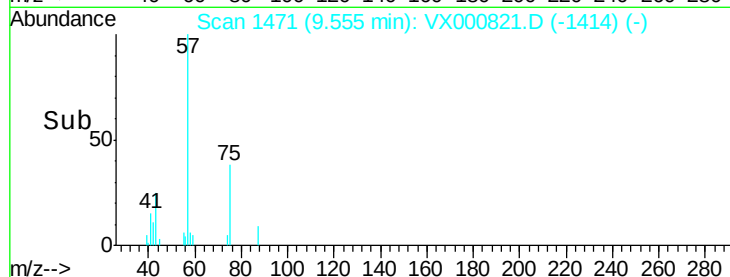
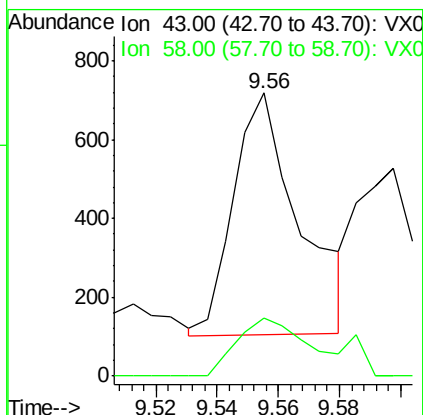
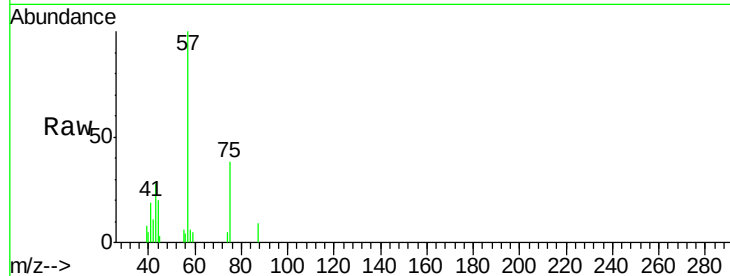




#59
2-Hexanone
Concen: 0.29 ug/l
RT: 9.56 min Scan# 1471
Delta R.T. 0.05 min
Lab File: VX000821.D
Acq: 13 Apr 2018 00:12

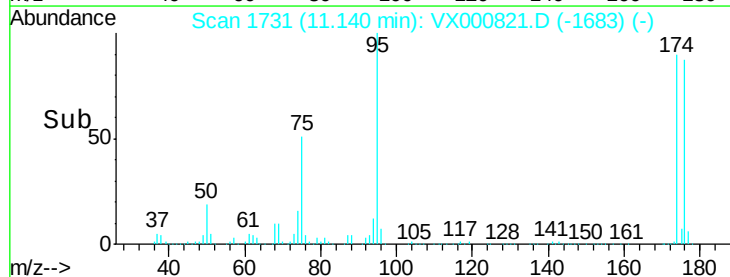
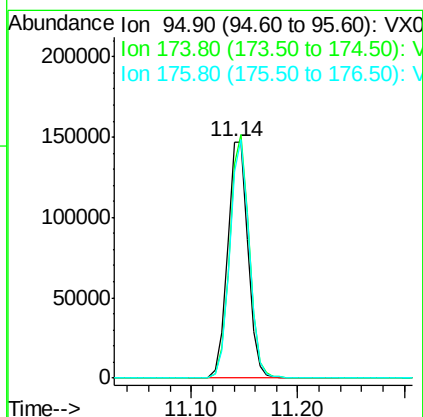
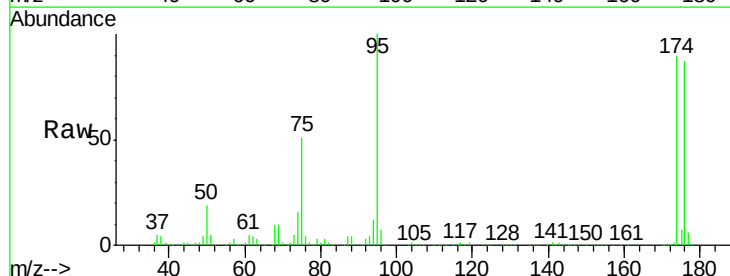
Instrument :
MSVOA_X
ClientSampleId :
EO-01-041118-C

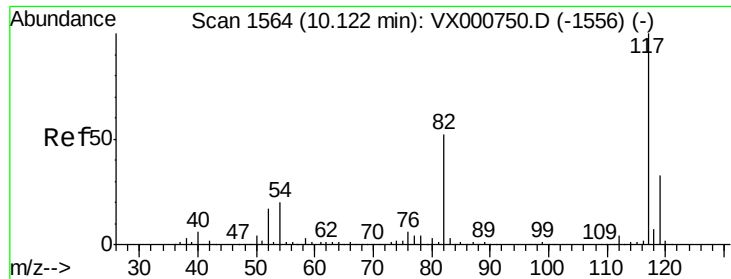
Tgt Ion: 43 Resp: 904
Ion Ratio Lower Upper
43 100
58 30.8 26.5 79.5



#62
4-Bromofluorobenzene
Concen: 45.23 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.01 min
Lab File: VX000821.D
Acq: 13 Apr 2018 00:12

Tgt Ion: 95 Resp: 197668
Ion Ratio Lower Upper
95 100
174 97.9 0.0 198.4
176 95.8 0.0 194.4

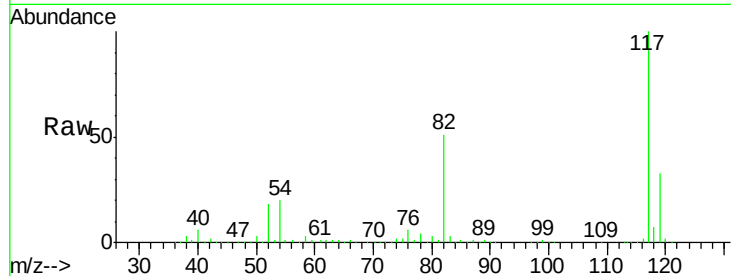




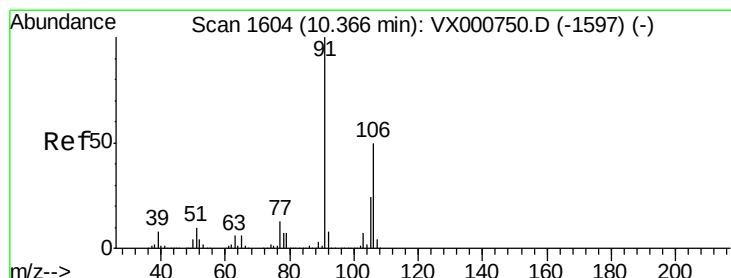
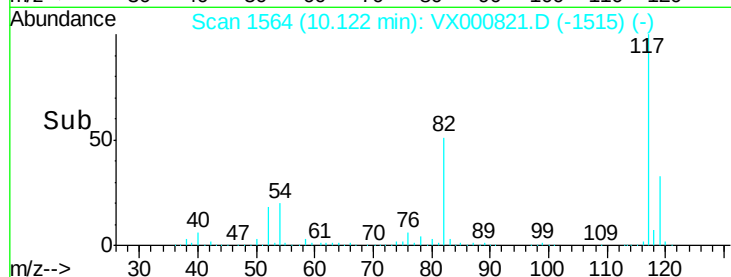
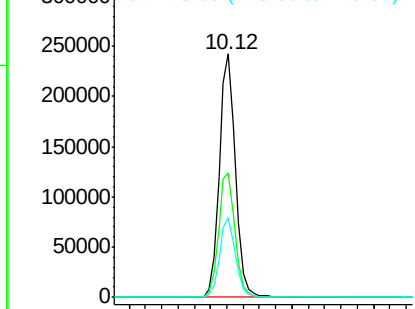
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000821.D
Acq: 13 Apr 2018 00:12

Instrument :
MSVOA_X
ClientSampleId :
EO-01-041118-C

Tgt Ion:117 Resp: 335414
Ion Ratio Lower Upper
117 100
82 51.1 41.9 62.9
119 33.0 26.0 39.0

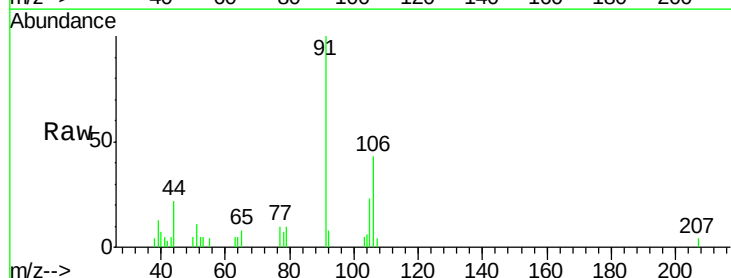


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

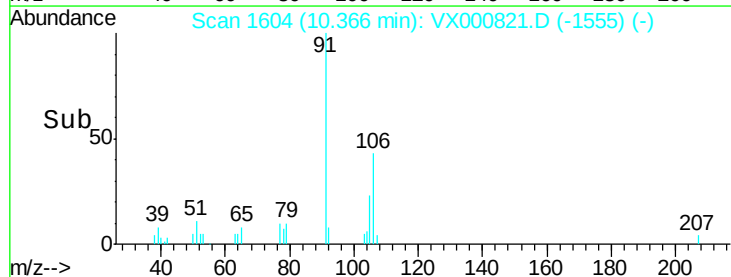
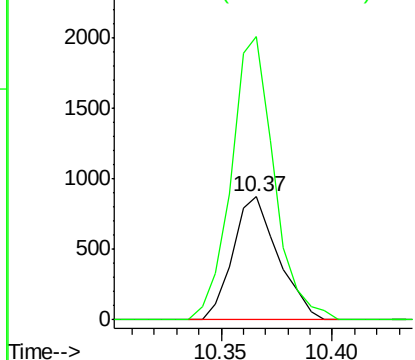


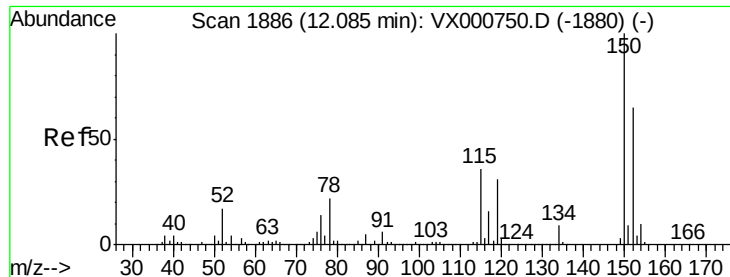
#68
m/p-Xylenes
Concen: 0.22 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VX000821.D
Acq: 13 Apr 2018 00:12

Tgt Ion:106 Resp: 1233
Ion Ratio Lower Upper
106 100
91 219.1 159.3 238.9



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: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

EO-01-041118-C

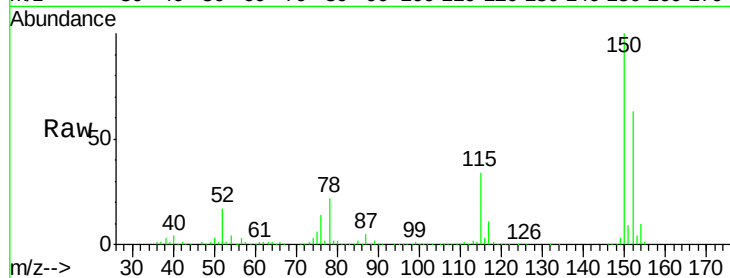
Tgt Ion:152 Resp: 221195

Ion Ratio Lower Upper

152 100

115 53.6 37.9 113.7

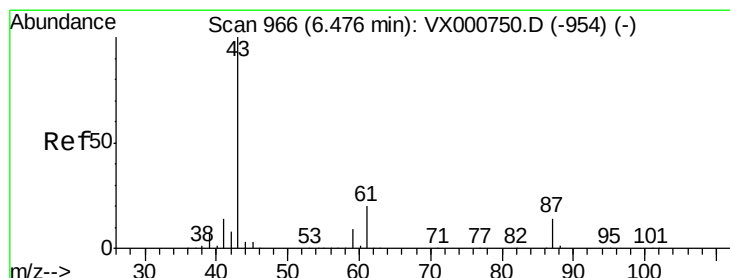
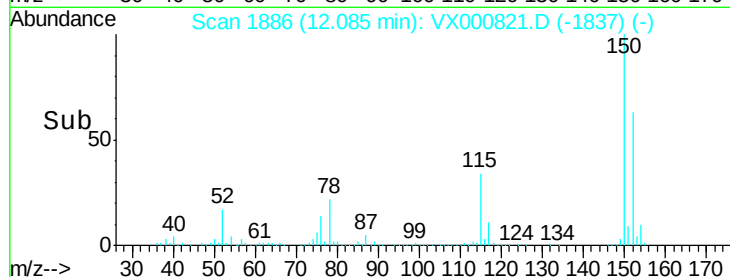
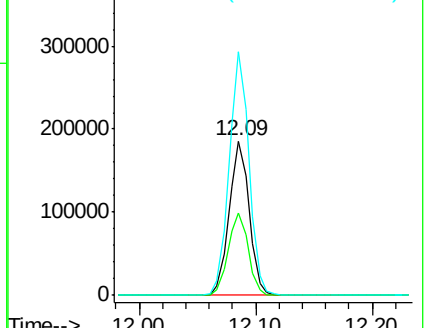
150 156.6 0.0 348.0



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: 0.47 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Tgt Ion: 43 Resp: 2946

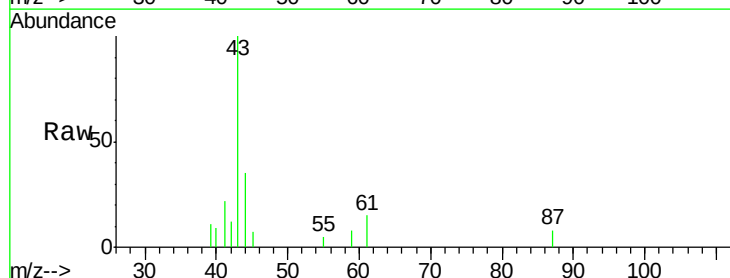
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 4.2 0.0 0.0#

61 19.9 15.6 23.4

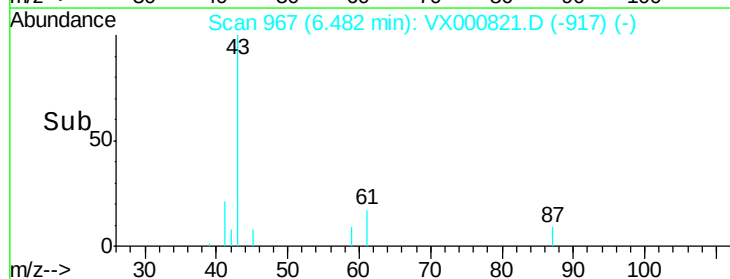
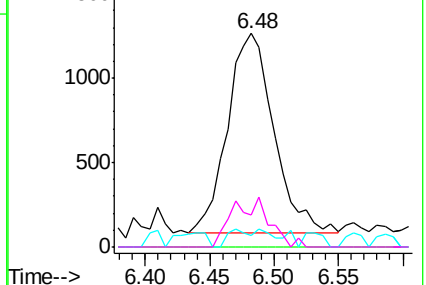


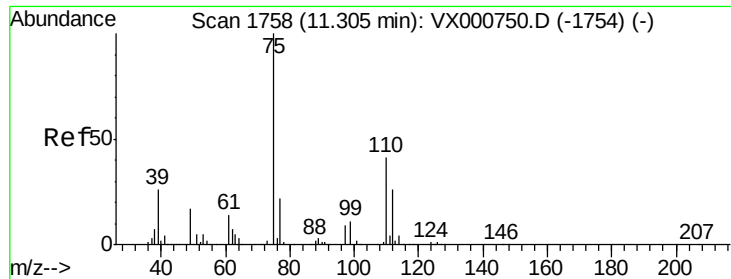
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

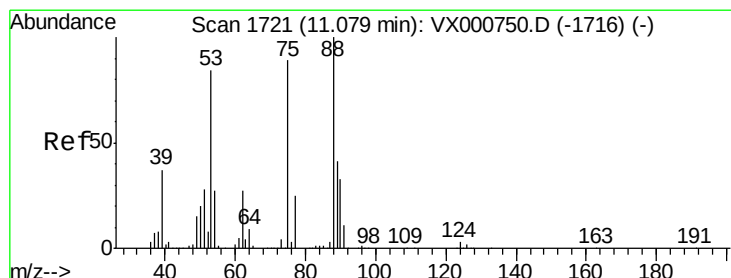
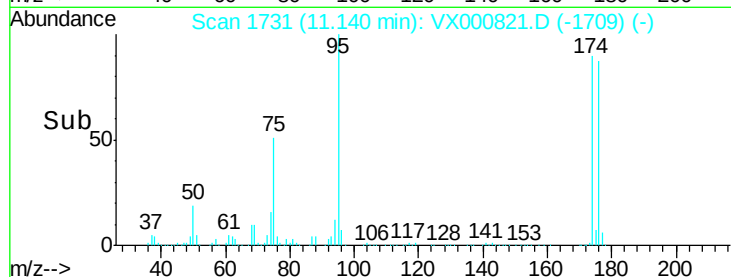
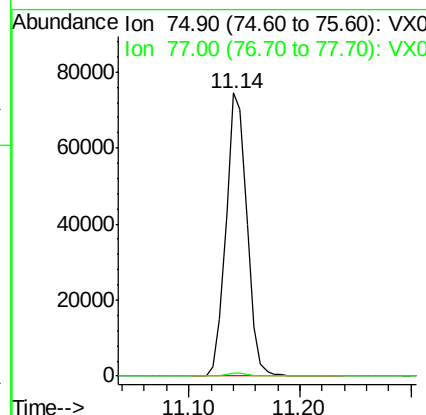
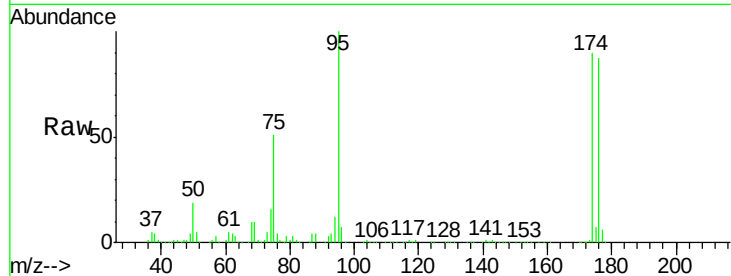




#76
 1,2,3-Trichloropropane
 Concen: 25.28 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX000821.D
 Acq: 13 Apr 2018 00:12

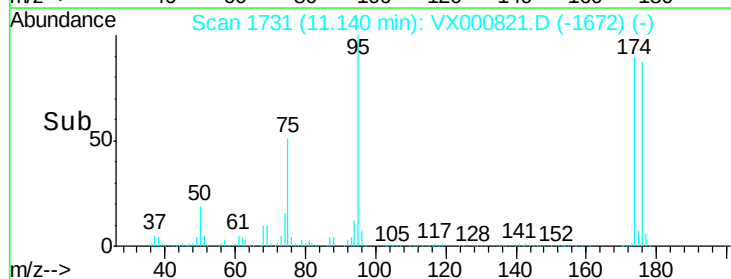
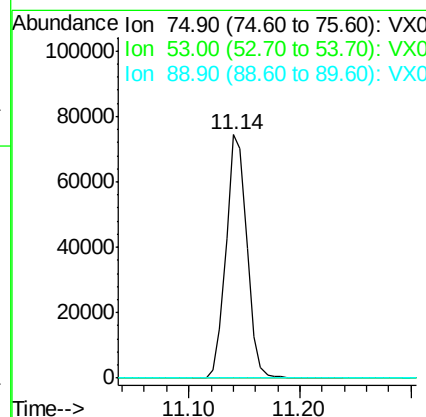
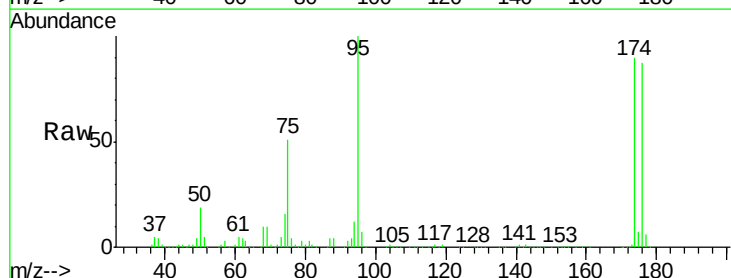
Instrument :
 MSVOA_X
 ClientSampleId :
 EO-01-041118-C

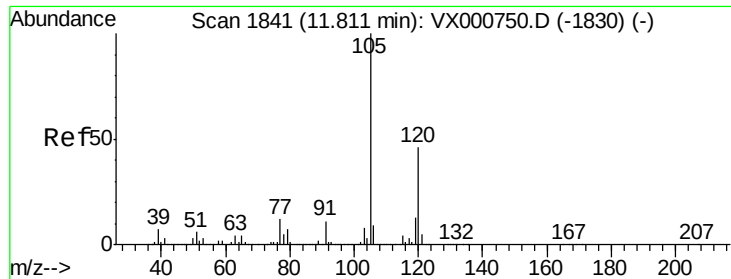
Tgt Ion: 75 Resp: 96454
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.5 61.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.55 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX000821.D
 Acq: 13 Apr 2018 00:12

Tgt Ion: 75 Resp: 96454
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 40.9 61.3#





#84

1,2,4-Trimethylbenzene

Concen: 0.57 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

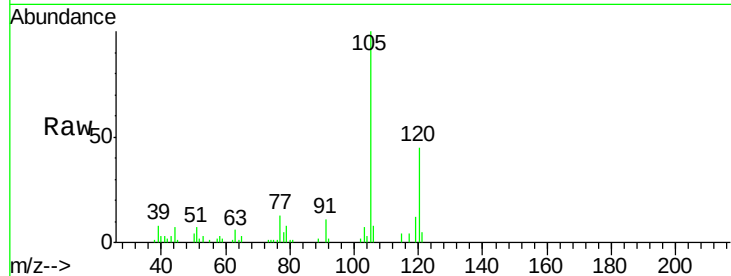
EO-01-041118-C

Tgt Ion:105 Resp: 7117

Ion Ratio Lower Upper

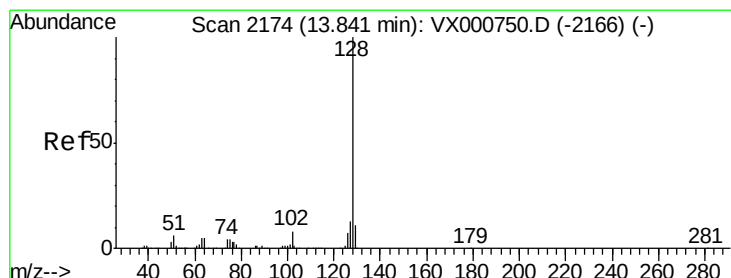
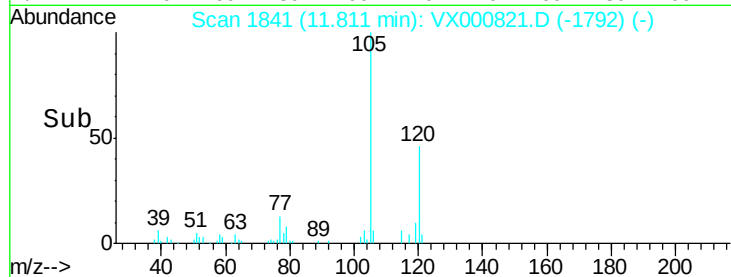
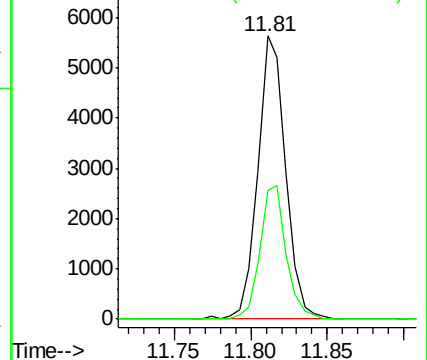
105 100

120 44.5 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 19.01 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000821.D

Acq: 13 Apr 2018 00:12

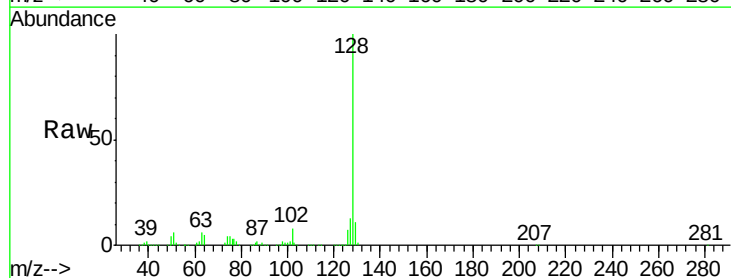
Tgt Ion:128 Resp: 305992

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 10.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

