

Data File : VX001373.D
Acq On : 03 May 2018 21:33
Operator : JC/MD
Sample : J2679-02 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EO-01-050218-A

Quant Time: May 04 07:17:40 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050118W.M
Quant Title : SW846 8260
QLast Update : Wed May 02 01:48:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	153457	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	212008	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	191468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	94850	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	79707	37.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.04%	
35) Dibromofluoromethane	5.52	113	66866	36.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.22%	
50) Toluene-d8	8.72	98	248867	38.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.28%	
62) 4-Bromofluorobenzene	11.15	95	81653	31.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	312	Below Cal		92
10) Methyl Iodide	2.51	142	520	4.59	ug/l #	90
11) Tert butyl alcohol	3.03	59	1332	3.64	ug/l #	79
13) Acrolein	2.30	56	216	1.03	ug/l #	75
15) Acrylonitrile	3.16	53	213	0.25	ug/l #	44
16) Acetone	2.45	43	3243	3.58	ug/l	94
18) Methyl Acetate	2.79	43	4109	1.92	ug/l	96
20) Methylene Chloride	2.86	84	21191	11.73	ug/l	98
25) 2-Butanone	4.73	43	856	0.70	ug/l	90
29) Tetrahydrofuran	5.18	42	511	0.68	ug/l #	64
30) Chloroform	5.22	83	874	0.29	ug/l	92
31) Cyclohexane	5.67	56	2666	1.02	ug/l #	21
36) 1,1-Dichloropropene	5.67	75	9474	3.87	ug/l #	49
38) Carbon Tetrachloride	5.67	117	12778	4.98	ug/l #	18
44) Trichloroethene	7.23	130	10170	4.72	ug/l	94
51) 4-Methyl-2-Pentanone	8.66	43	531	0.21	ug/l #	76
67) Ethyl Benzene	10.26	91	14447	1.68	ug/l	98
68) m/p-Xylenes	10.36	106	27351	8.10	ug/l	98
69) o-Xylene	10.71	106	10507	3.21	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	41698	23.77	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.14	75	41698	75.00	ug/l #	6
84) 1,2,4-Trimethylbenzene	11.81	105	1190	0.22	ug/l	83
95) Naphthalene	13.84	128	9708	1.40	ug/l	99

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

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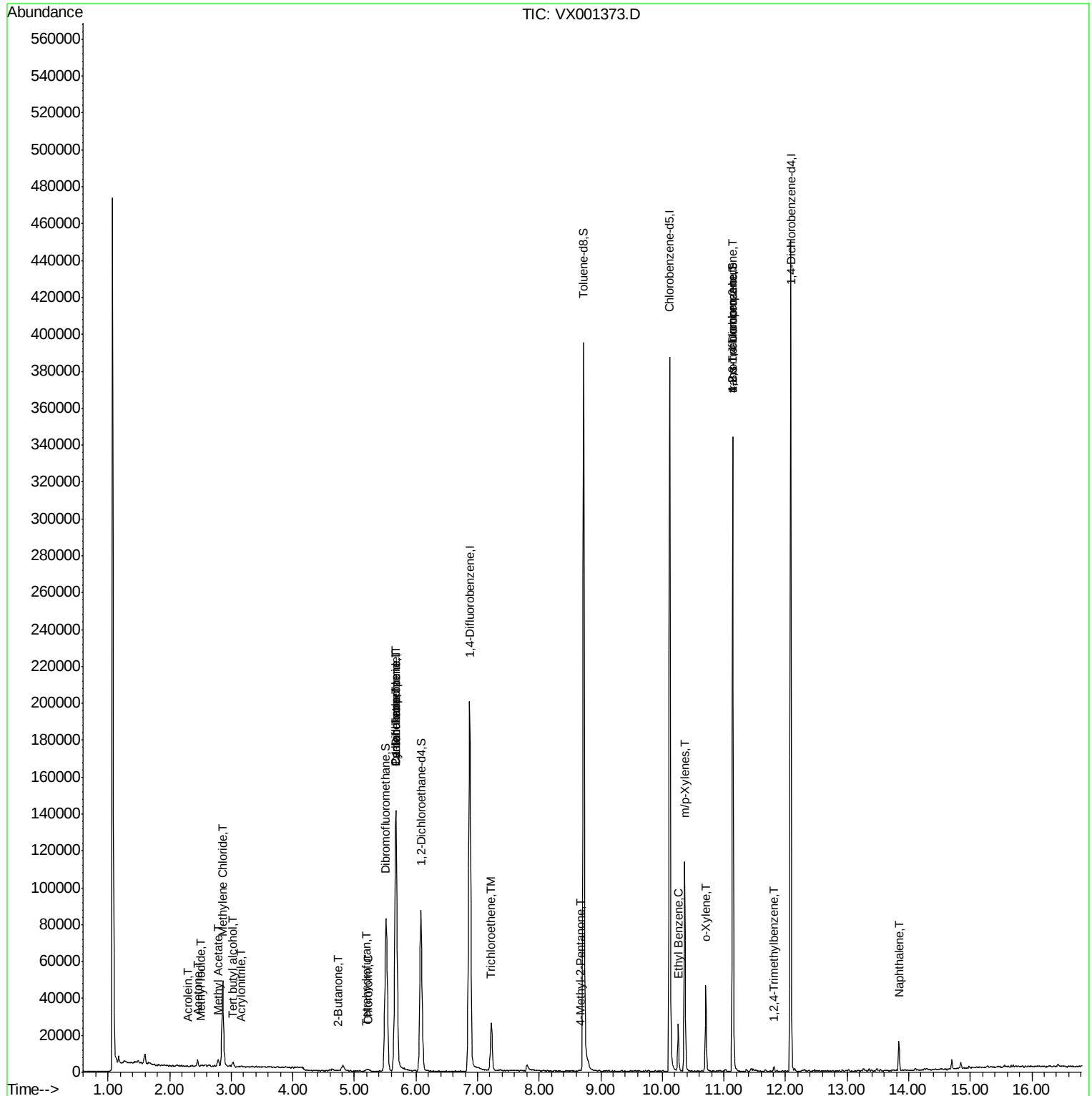
Quant Time: May 04 07:17:40 2018

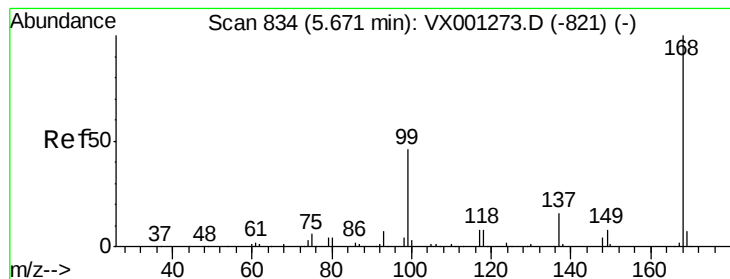
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050118W.M

Quant Title : SW846 8260

QLast Update : Wed May 02 01:48:25 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

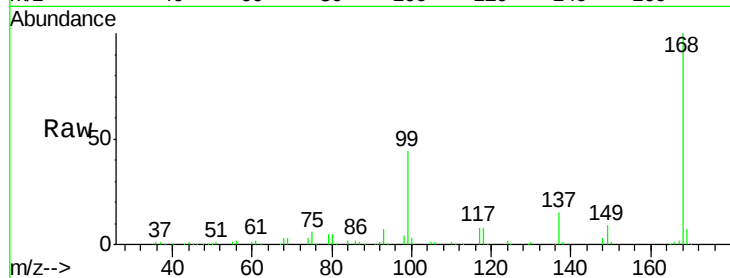
EO-01-050218-A

Tgt Ion:168 Resp: 153457

Ion Ratio Lower Upper

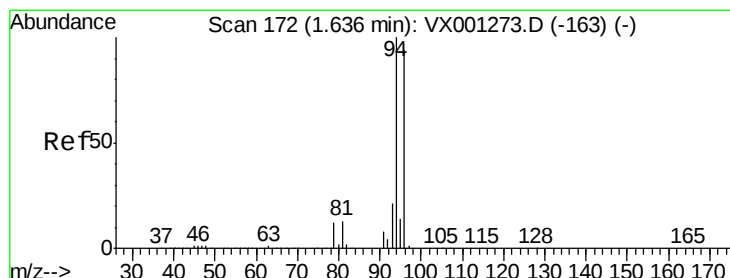
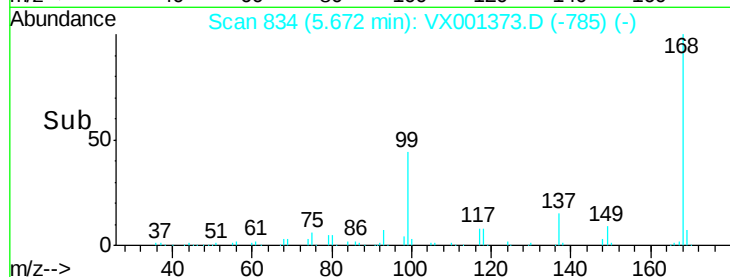
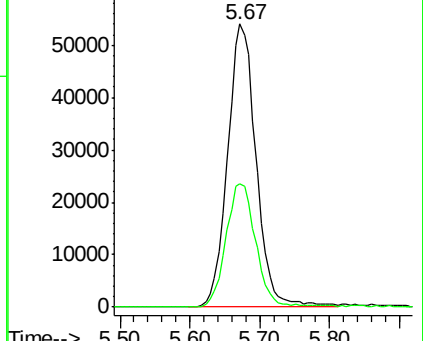
168 100

99 43.7 36.5 54.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001373.D

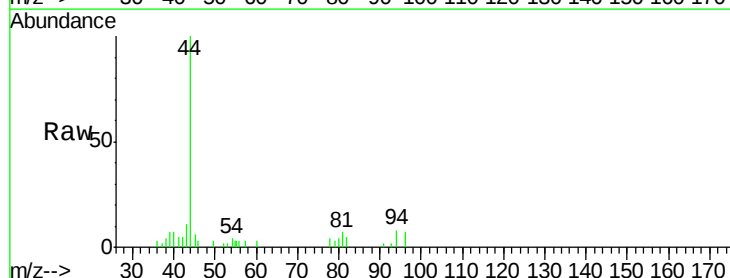
Acq: 03 May 2018 21:33

Tgt Ion: 94 Resp: 312

Ion Ratio Lower Upper

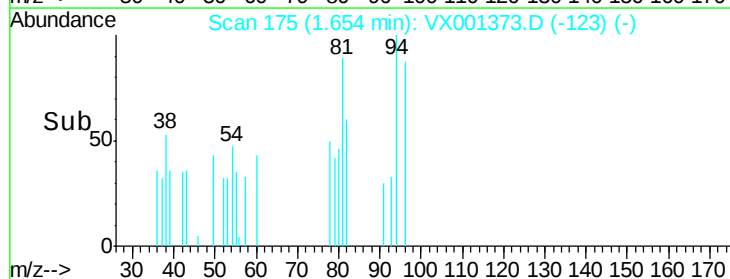
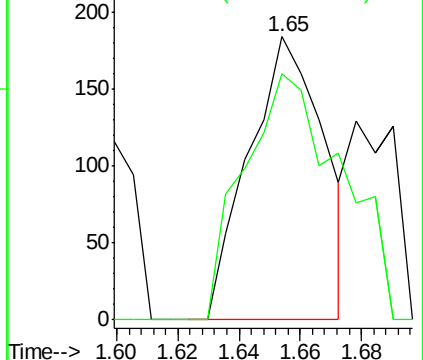
94 100

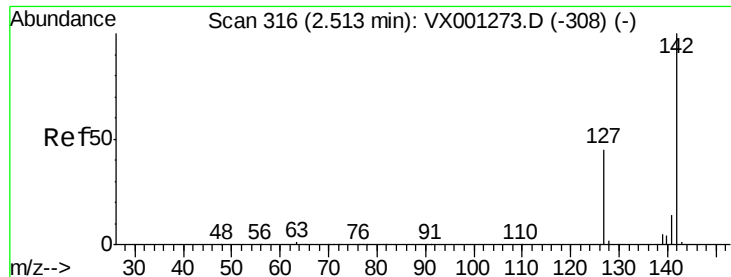
96 87.0 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

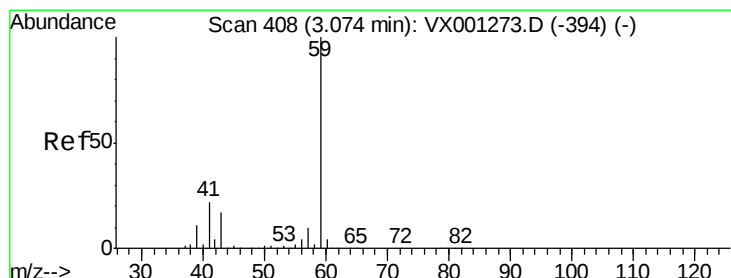
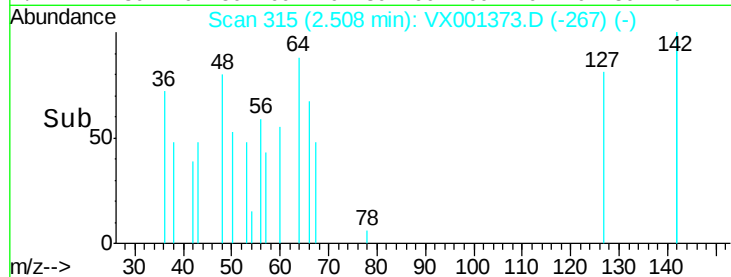
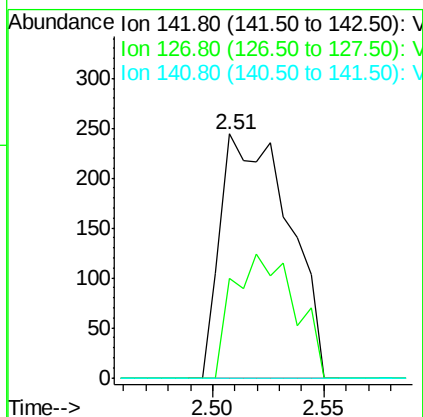
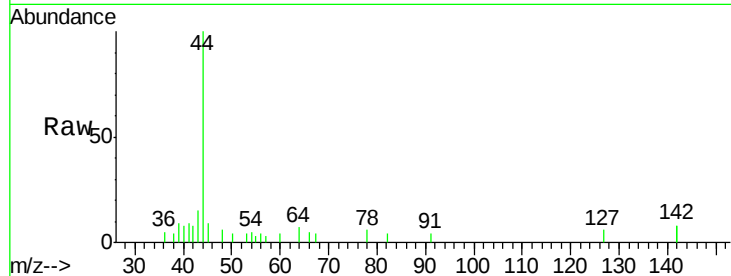




#10
Methyl Iodide
Concen: 4.59 ug/l
RT: 2.51 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

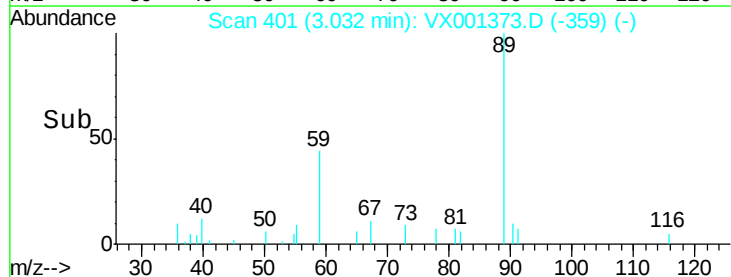
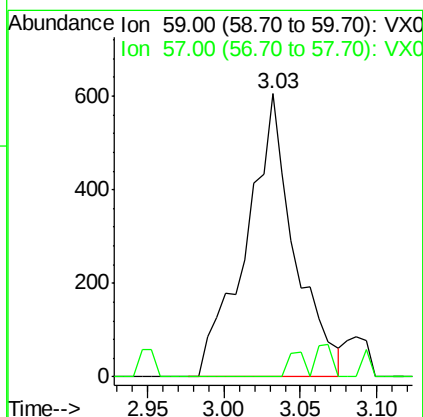
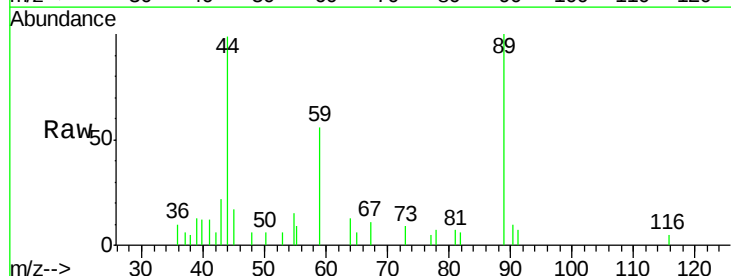
Instrument :
MSVOA_X
ClientSampleId :
EO-01-050218-A

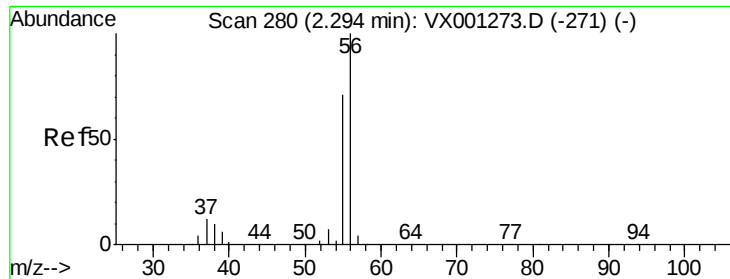
Tgt Ion: 142 Resp: 520
Ion Ratio Lower Upper
142 100
127 45.8 35.7 53.5
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 3.64 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.04 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

Tgt Ion: 59 Resp: 1332
Ion Ratio Lower Upper
59 100
57 2.9 8.6 12.8#





#13

Acrolein

Concen: 1.03 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

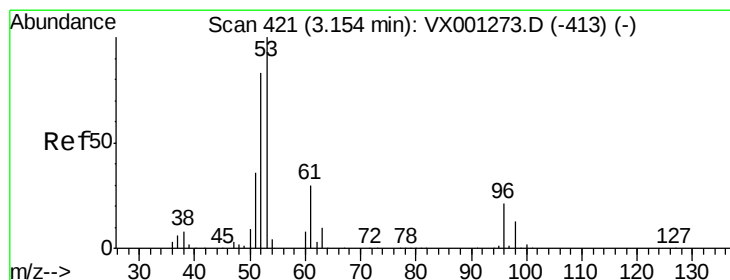
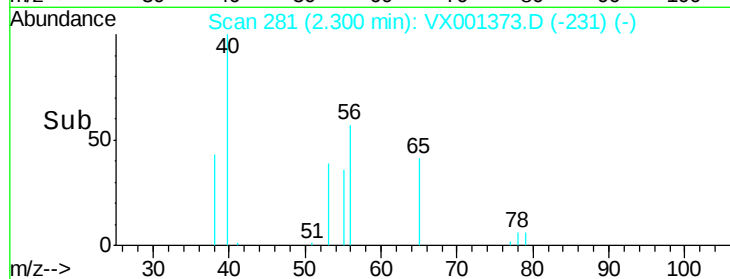
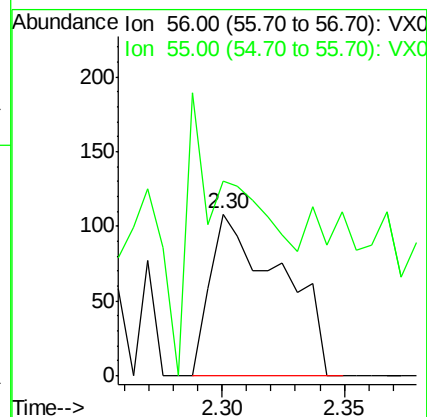
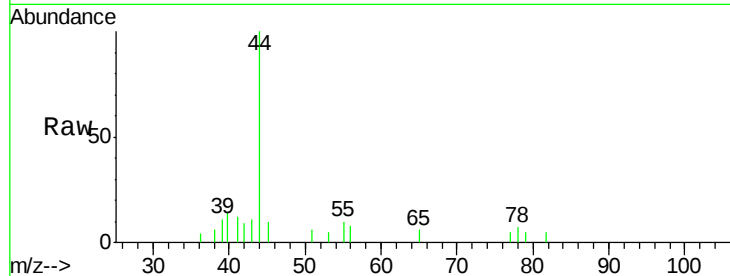
EO-01-050218-A

Tgt Ion: 56 Resp: 216

Ion Ratio Lower Upper

56 100

55 92.6 57.2 85.8#



#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

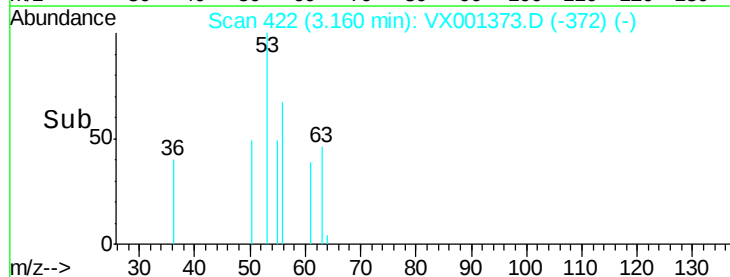
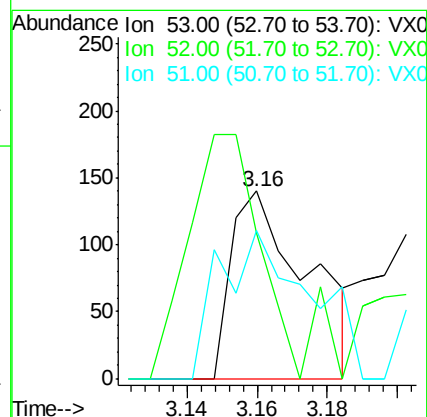
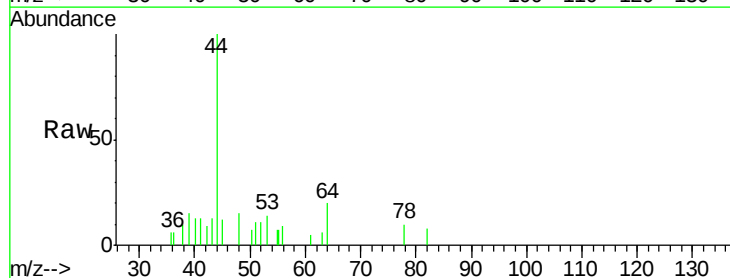
Tgt Ion: 53 Resp: 213

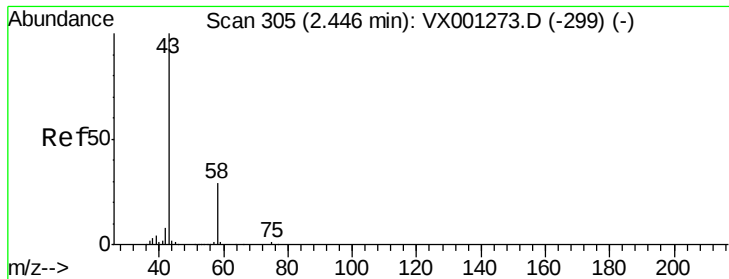
Ion Ratio Lower Upper

53 100

52 120.2 67.0 100.4#

51 92.5 29.9 44.9#





#16

Acetone

Concen: 3.58 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

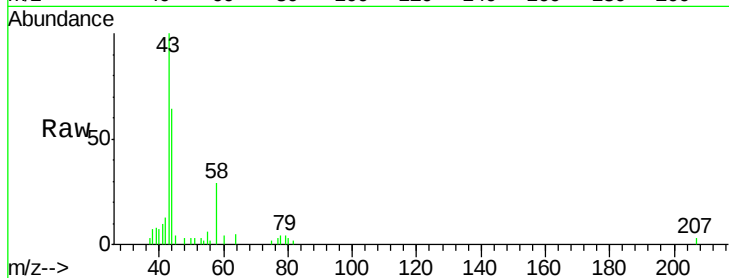
EO-01-050218-A

Tgt Ion: 43 Resp: 3243

Ion Ratio Lower Upper

43 100

58 31.9 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

2500

2000

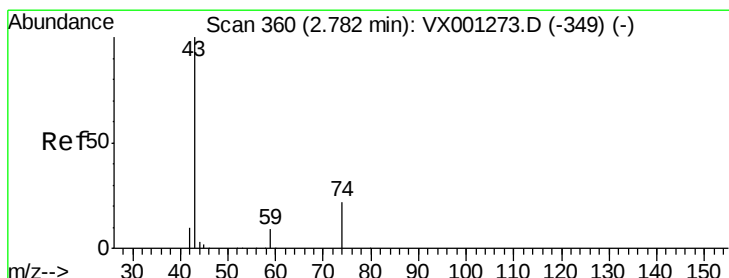
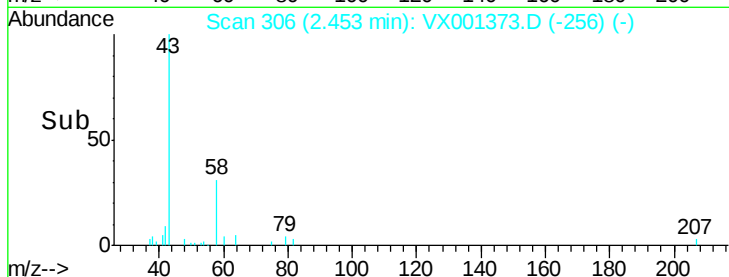
1500

1000

500

0

Time-->



#18

Methyl Acetate

Concen: 1.92 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX001373.D

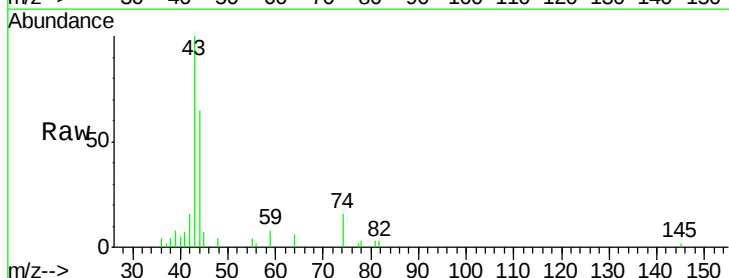
Acq: 03 May 2018 21:33

Tgt Ion: 43 Resp: 4109

Ion Ratio Lower Upper

43 100

74 24.3 17.8 26.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.79

3000

2500

2000

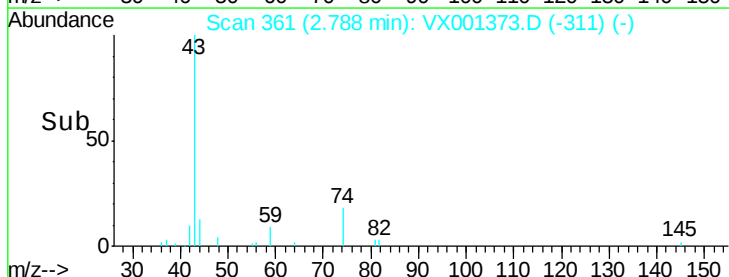
1500

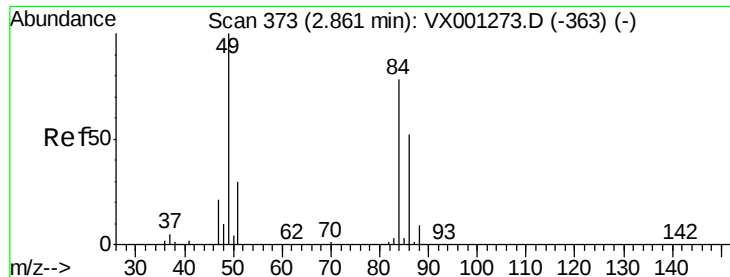
1000

500

0

Time-->

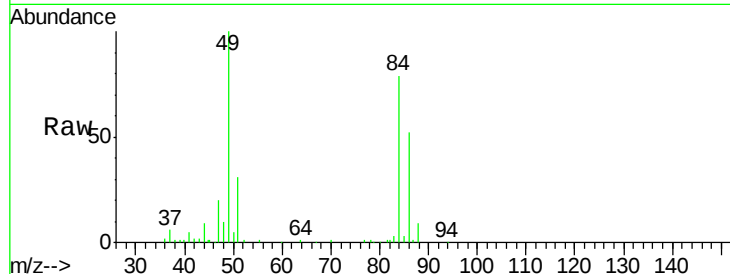




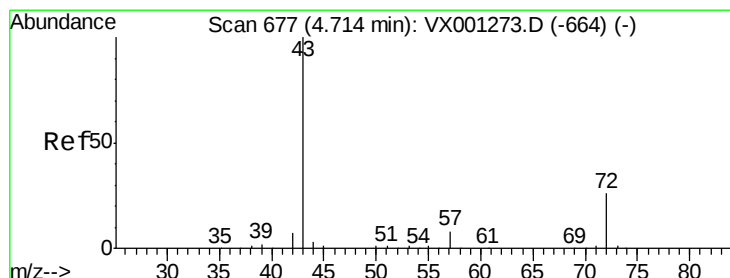
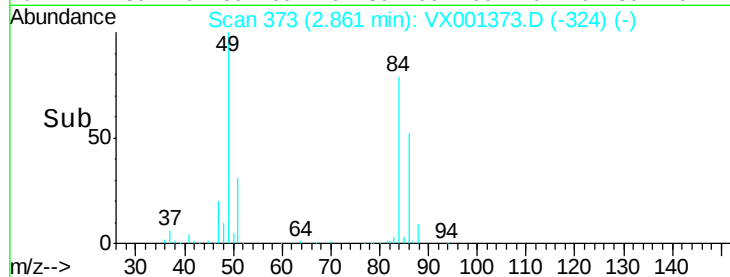
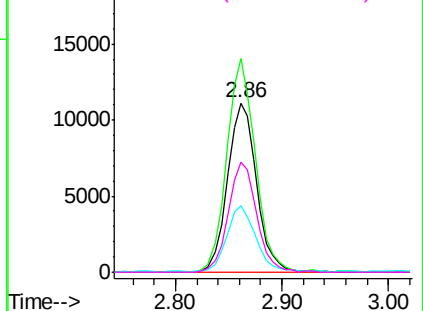
#20
Methylene Chloride
Concen: 11.73 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

Instrument :
MSVOA_X
ClientSampleId :
EO-01-050218-A

Tgt Ion: 84 Resp: 21191
Ion Ratio Lower Upper
84 100
49 126.1 102.8 154.2
51 39.6 30.9 46.3
86 65.3 53.0 79.4

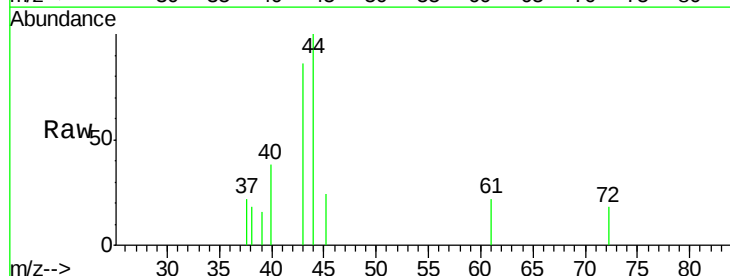


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

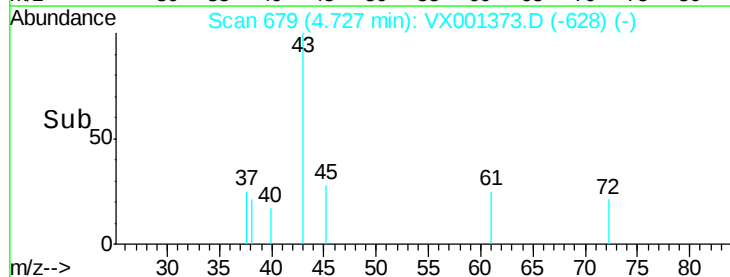
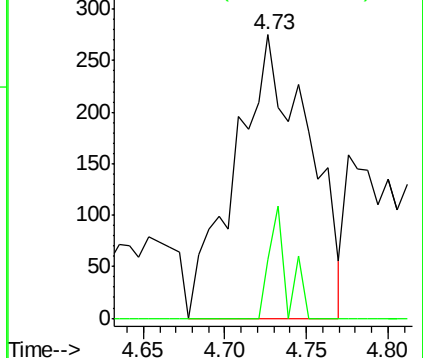


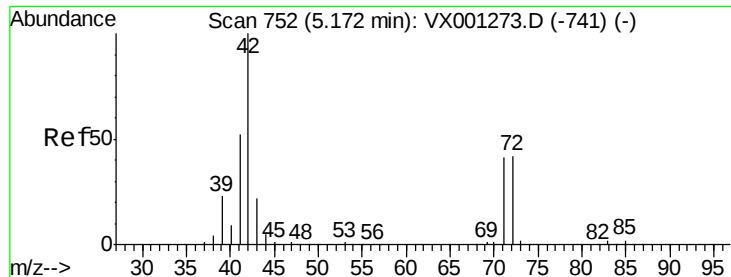
#25
2-Butanone
Concen: 0.70 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

Tgt Ion: 43 Resp: 856
Ion Ratio Lower Upper
43 100
72 20.7 20.5 30.7



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

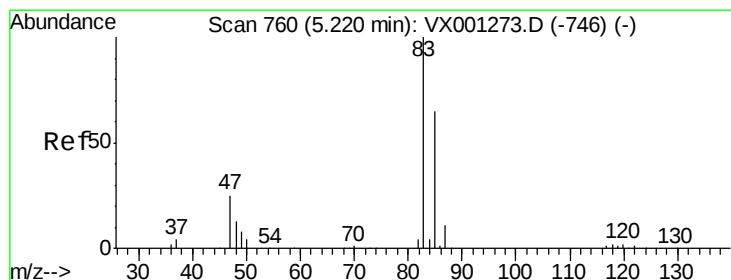
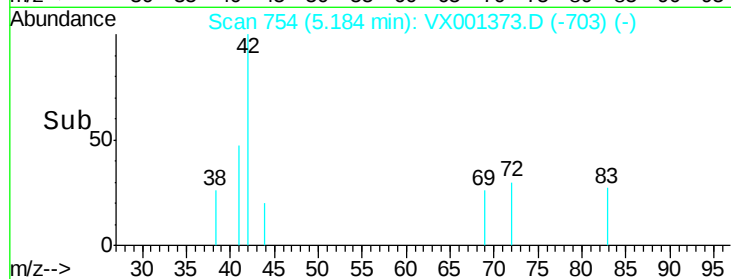
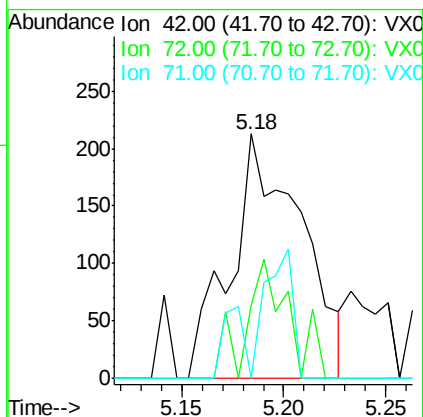
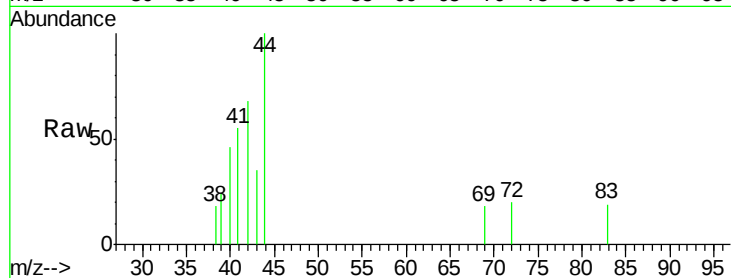




#29
Tetrahydrofuran
Concen: 0.68 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.01 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

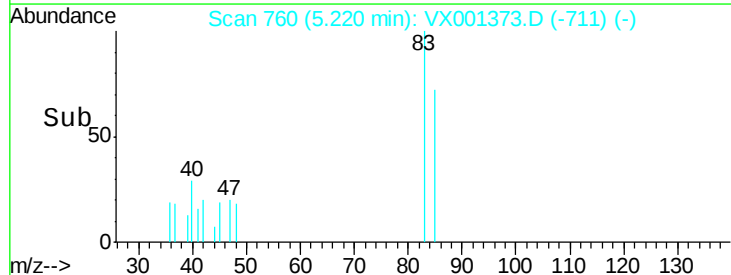
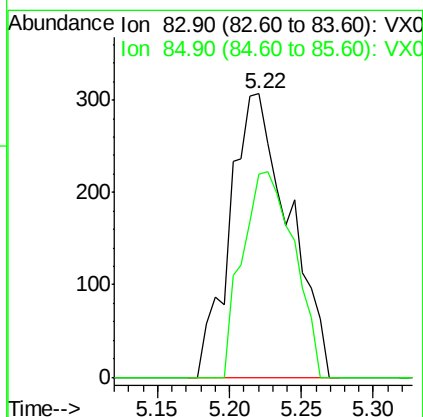
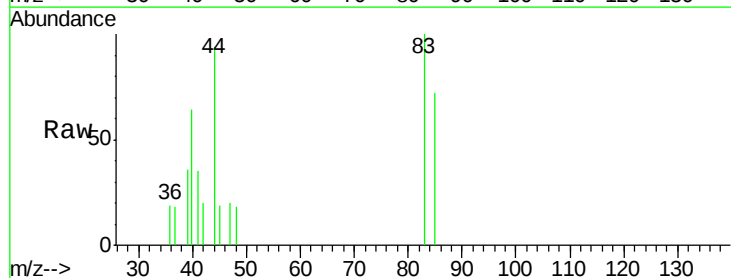
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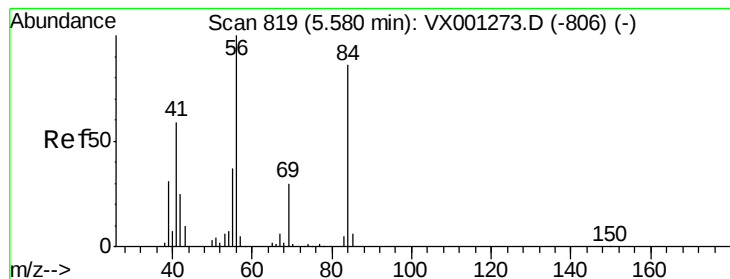
Tgt Ion: 42 Resp: 511
Ion Ratio Lower Upper
42 100
72 29.9 34.6 52.0#
71 8.6 32.7 49.1#



#30
Chloroform
Concen: 0.29 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

Tgt Ion: 83 Resp: 874
Ion Ratio Lower Upper
83 100
85 71.7 52.2 78.2





#31

Cyclohexane

Concen: 1.02 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

EO-01-050218-A

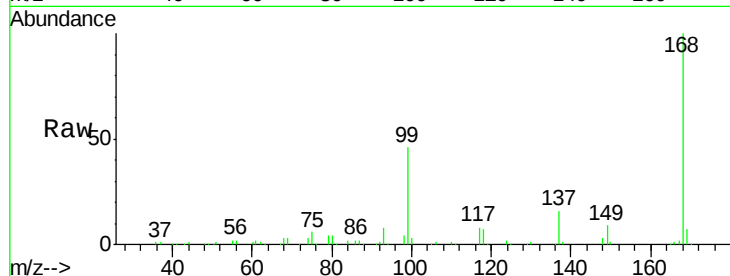
Tgt Ion: 56 Resp: 2666

Ion Ratio Lower Upper

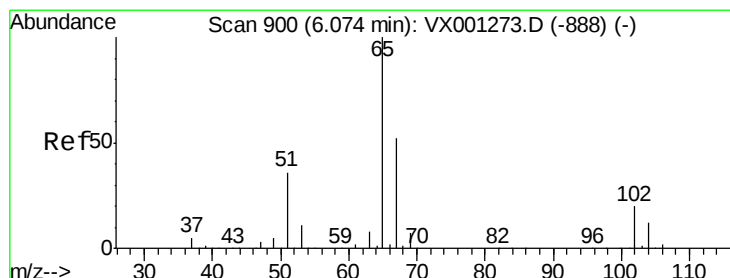
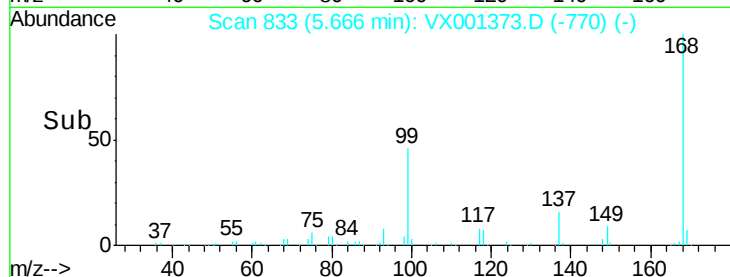
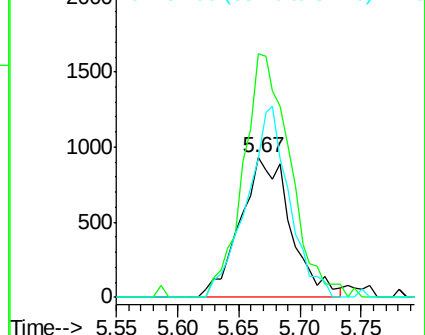
56 100

69 174.1 24.0 36.0#

84 98.7 69.0 103.4



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: 37.52 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX001373.D

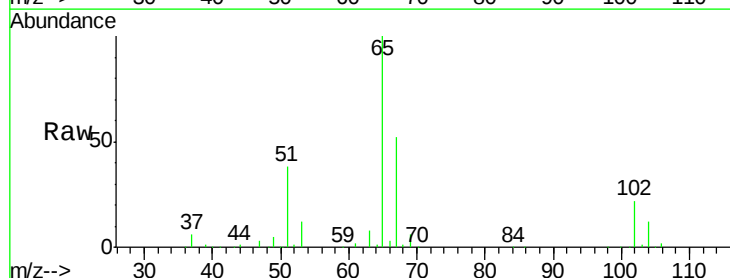
Acq: 03 May 2018 21:33

Tgt Ion: 65 Resp: 79707

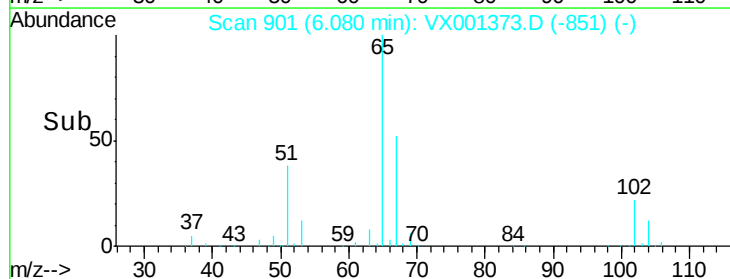
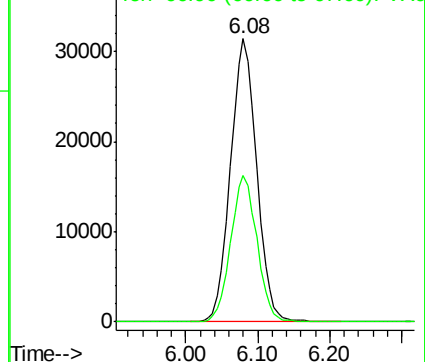
Ion Ratio Lower Upper

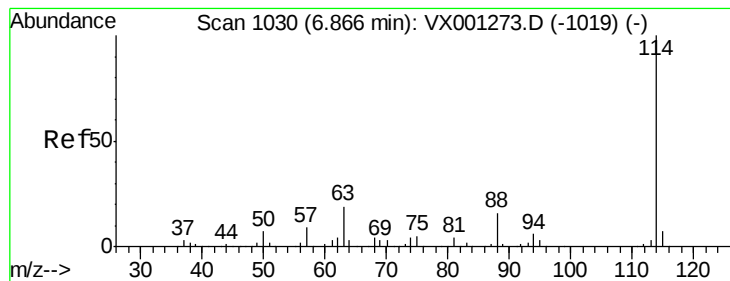
65 100

67 51.8 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

EO-01-050218-A

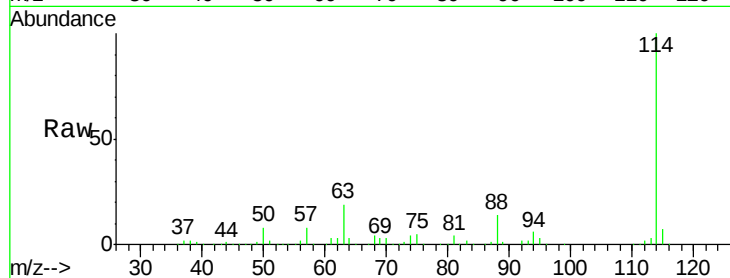
Tgt Ion:114 Resp: 212008

Ion Ratio Lower Upper

114 100

63 18.5 0.0 38.8

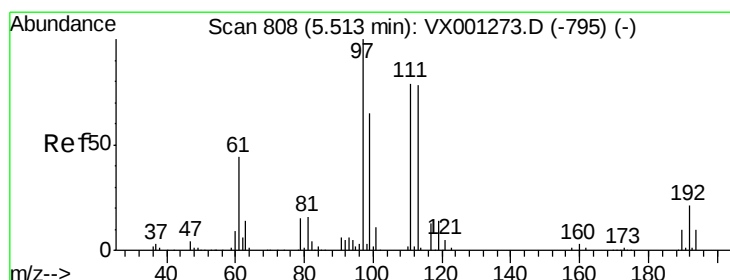
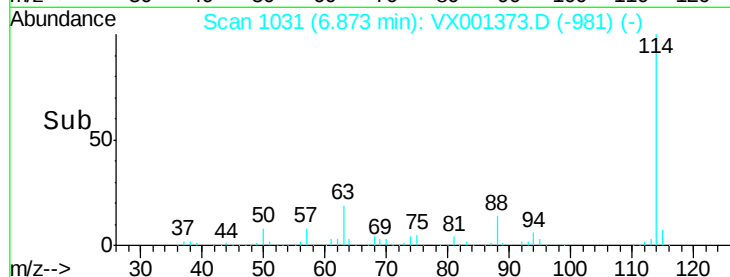
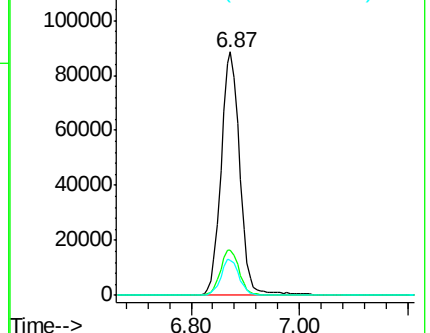
88 14.2 0.0 32.2



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: 36.61 ug/l

RT: 5.52 min Scan# 809

Delta R.T. 0.01 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

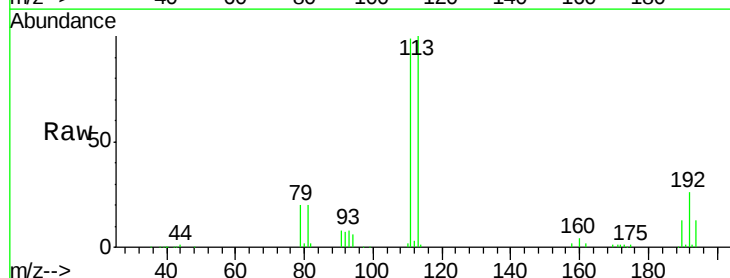
Tgt Ion:113 Resp: 66866

Ion Ratio Lower Upper

113 100

111 101.4 81.2 121.8

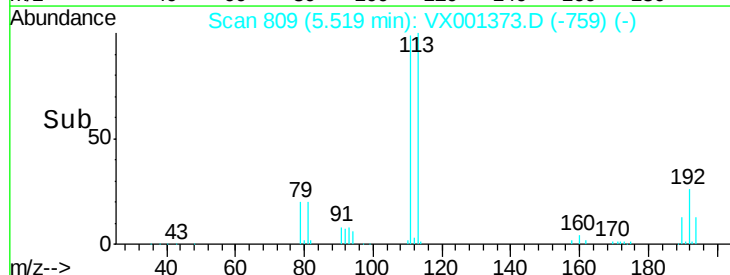
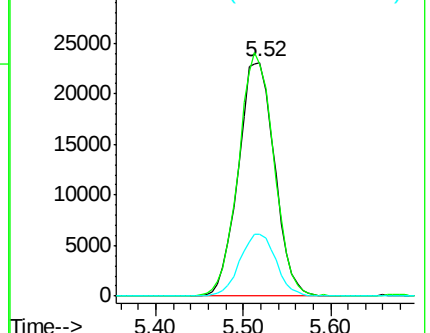
192 26.4 20.7 31.1

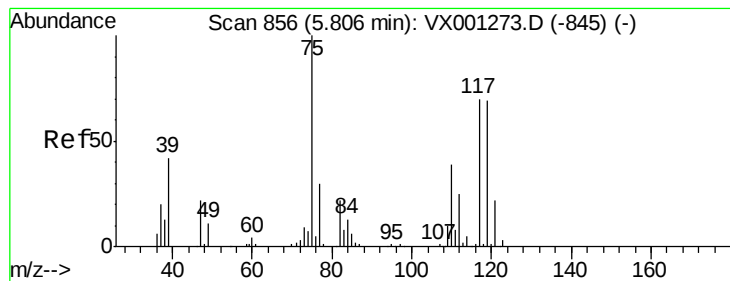


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.87 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

EO-01-050218-A

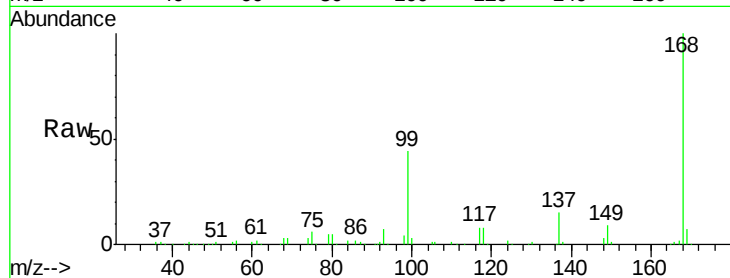
Tgt Ion: 75 Resp: 9474

Ion Ratio Lower Upper

75 100

110 9.5 18.9 56.9#

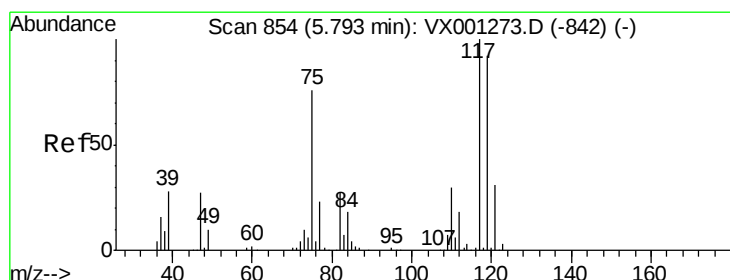
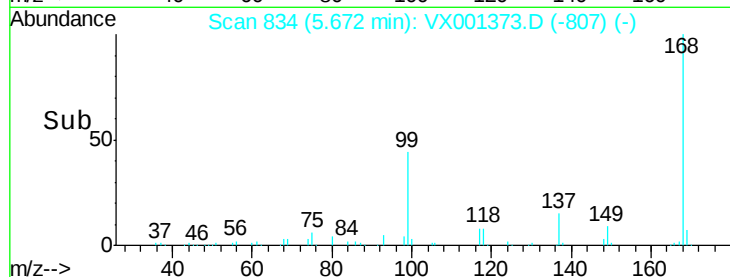
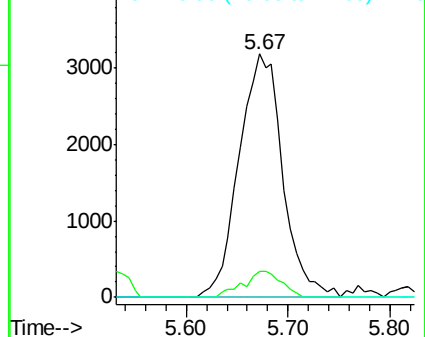
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 4.98 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

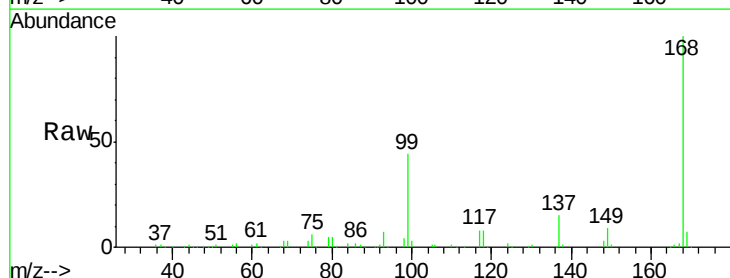
Tgt Ion: 117 Resp: 12778

Ion Ratio Lower Upper

117 100

119 5.5 73.4 110.2#

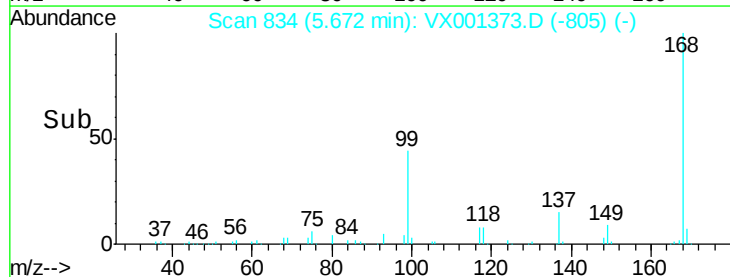
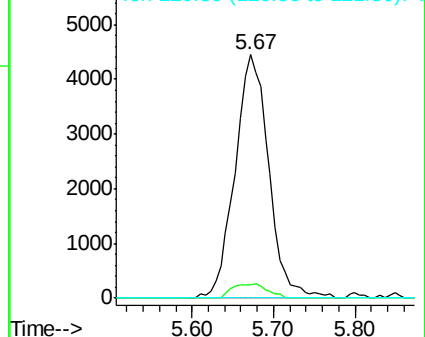
121 0.0 25.0 37.4#

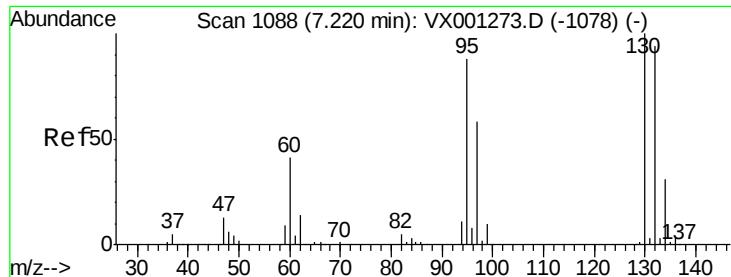


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 4.72 ug/l

RT: 7.23 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

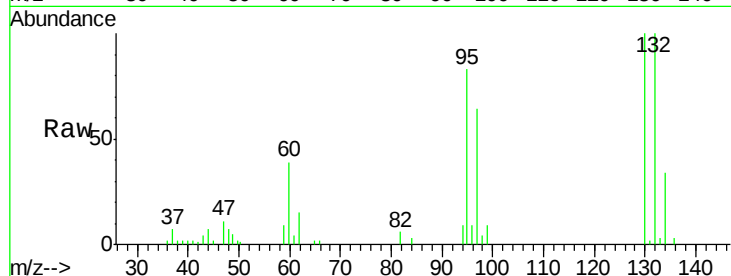
EO-01-050218-A

Tgt Ion:130 Resp: 10170

Ion Ratio Lower Upper

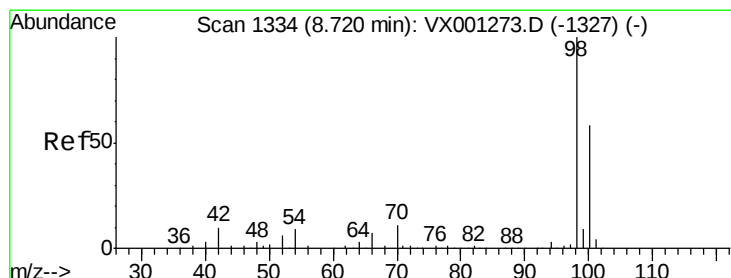
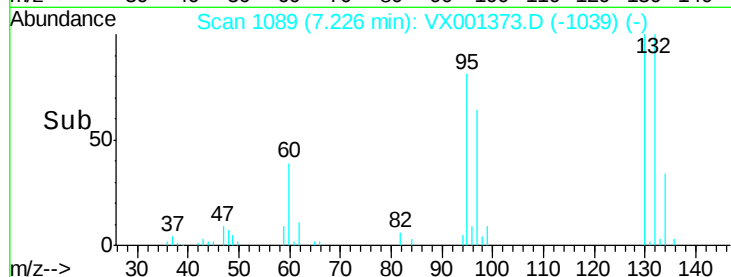
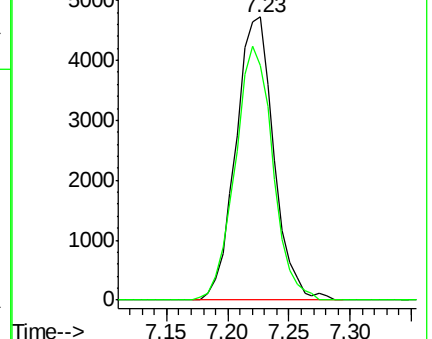
130 100

95 82.7 0.0 176.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 38.14 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001373.D

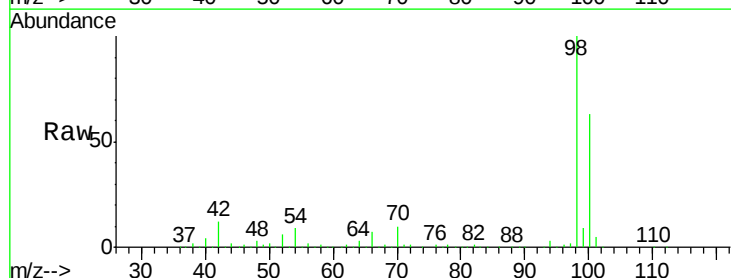
Acq: 03 May 2018 21:33

Tgt Ion: 98 Resp: 248867

Ion Ratio Lower Upper

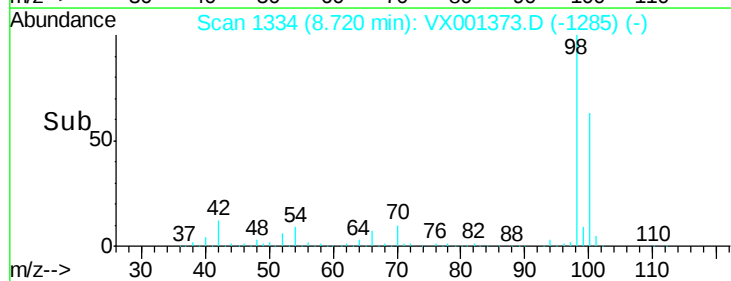
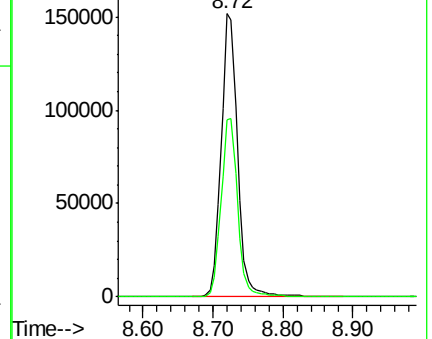
98 100

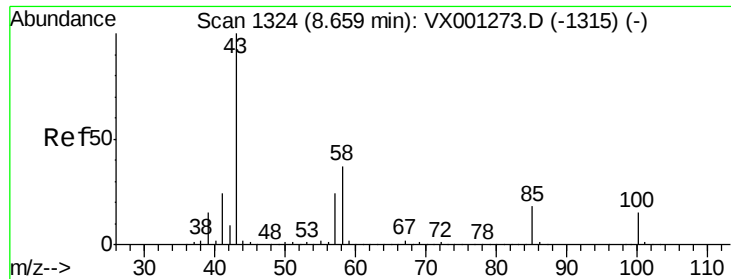
100 63.6 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.21 ug/l

RT: 8.66 min Scan# 1325

Delta R.T. 0.01 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

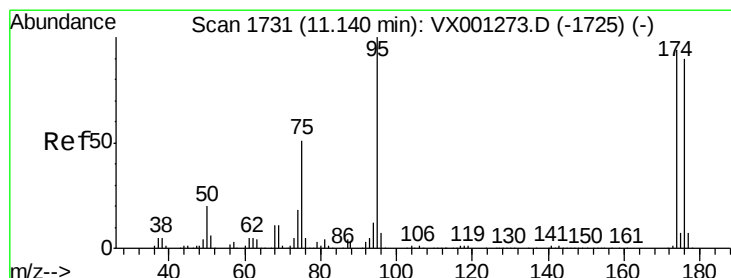
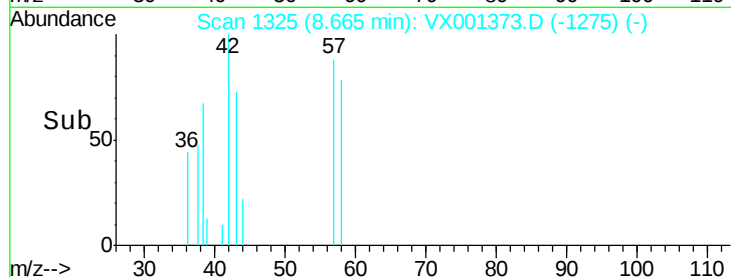
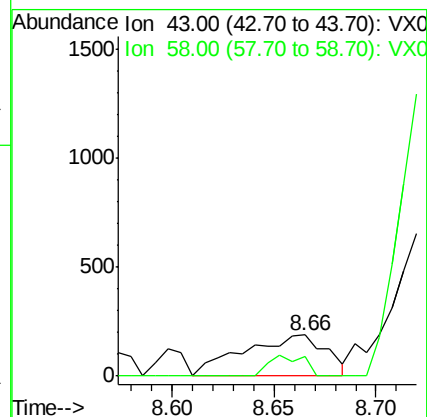
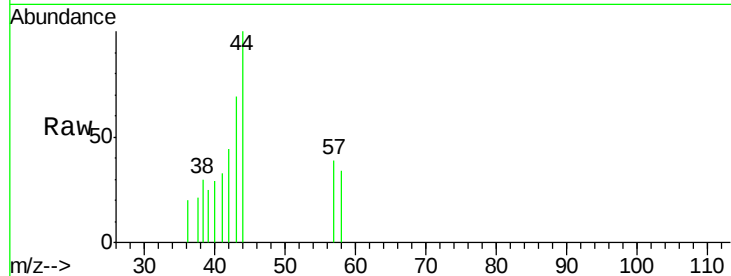
EO-01-050218-A

Tgt Ion: 43 Resp: 531

Ion Ratio Lower Upper

43 100

58 21.8 29.0 43.6#



#62

4-Bromofluorobenzene

Concen: 31.29 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.01 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

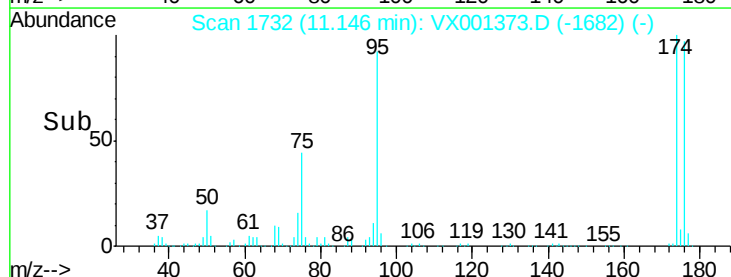
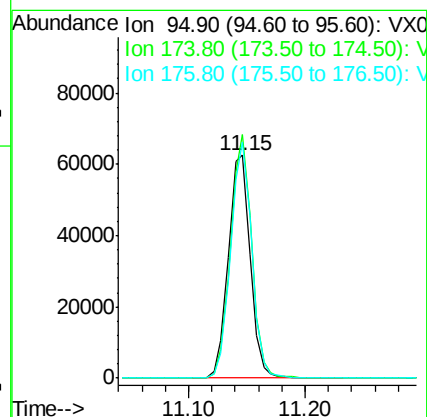
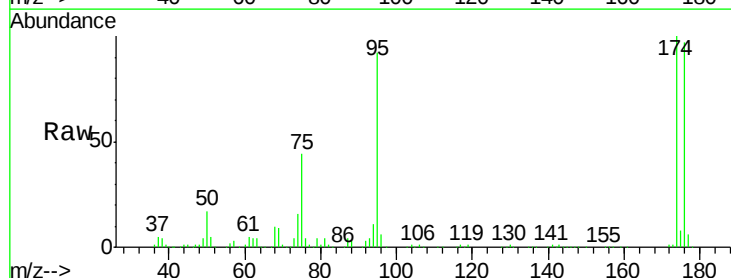
Tgt Ion: 95 Resp: 81653

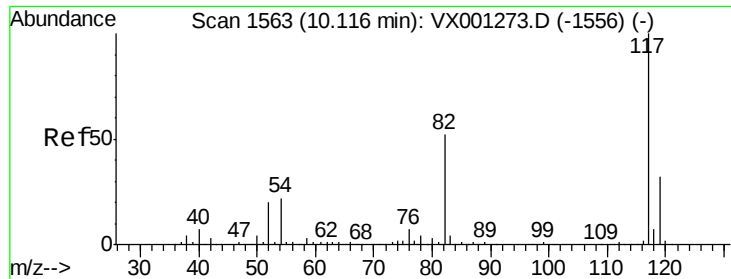
Ion Ratio Lower Upper

95 100

174 104.8 0.0 201.8

176 101.8 0.0 197.2

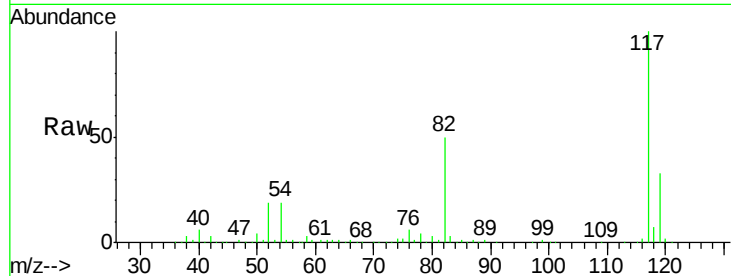




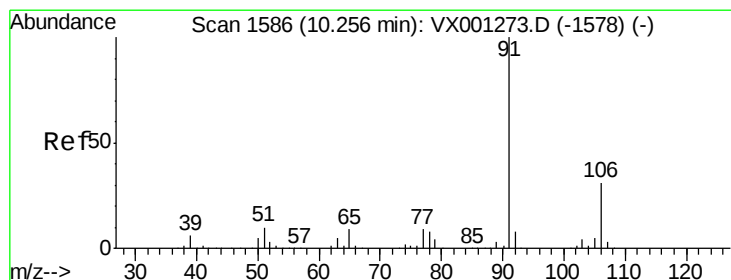
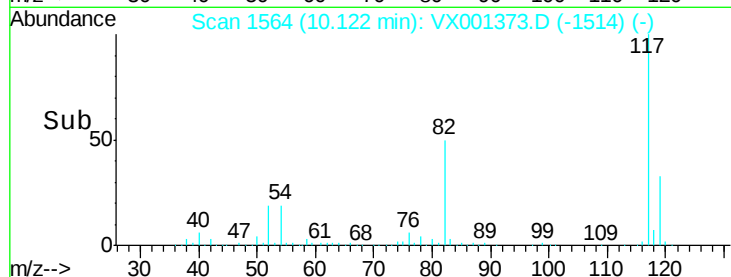
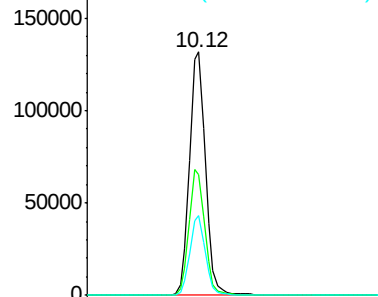
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

Instrument :
MSVOA_X
ClientSampleId :
EO-01-050218-A

Tgt Ion: 117 Resp: 191468
Ion Ratio Lower Upper
117 100
82 49.7 41.4 62.0
119 32.6 25.5 38.3

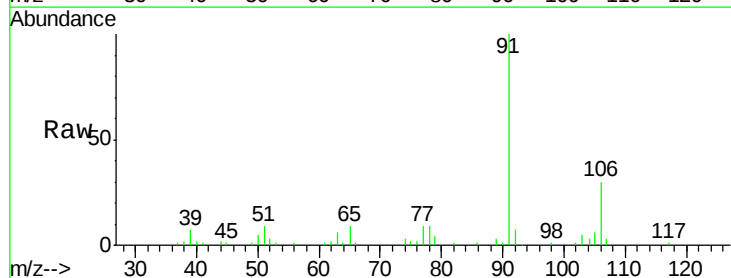


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

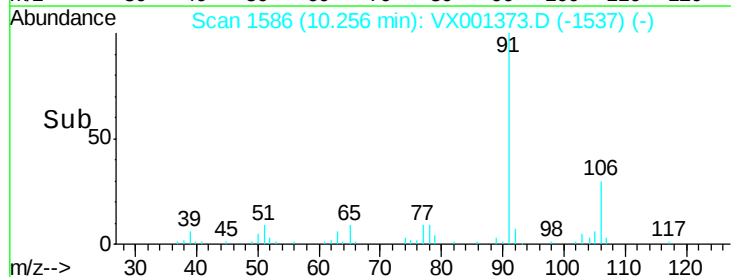
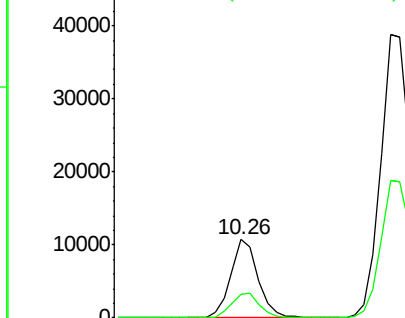


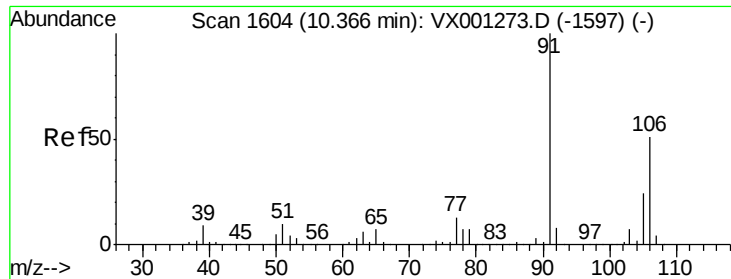
#67
Ethyl Benzene
Concen: 1.68 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

Tgt Ion: 91 Resp: 14447
Ion Ratio Lower Upper
91 100
106 30.2 24.9 37.3



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

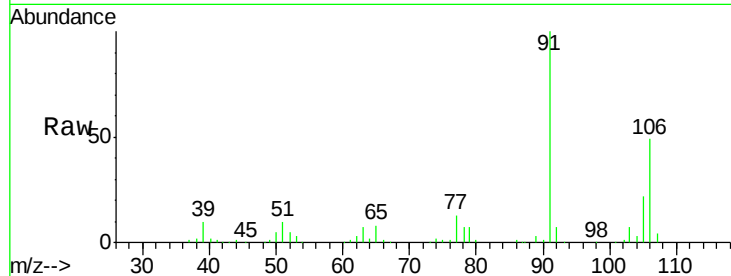




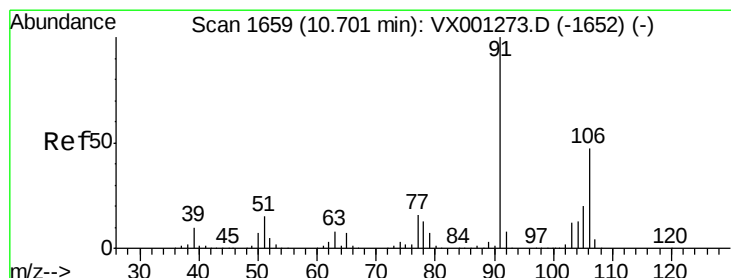
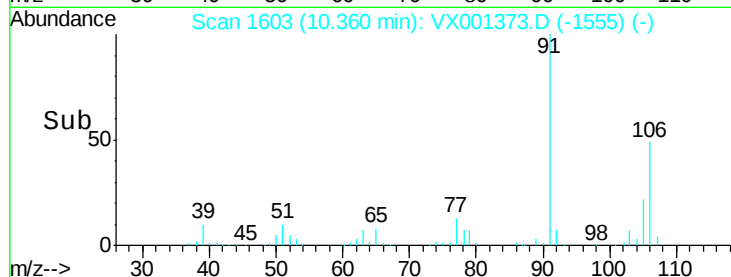
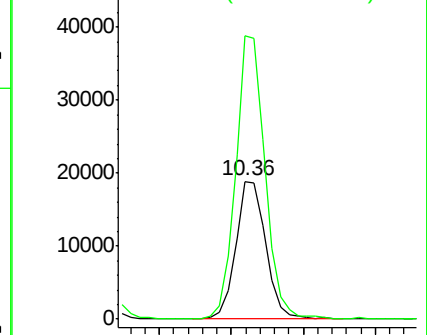
#68
m/p-Xylenes
Concen: 8.10 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

Instrument :
MSVOA_X
ClientSampleId :
EO-01-050218-A

Tgt Ion:106 Resp: 27351
Ion Ratio Lower Upper
106 100
91 202.0 159.4 239.2

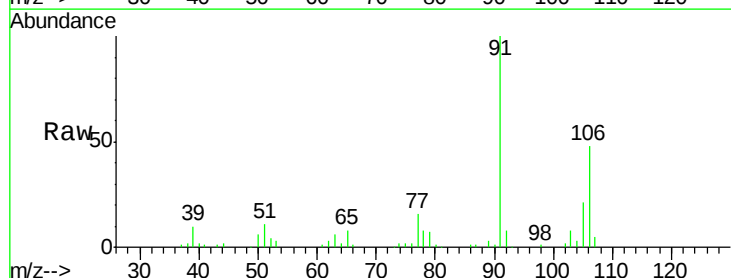


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

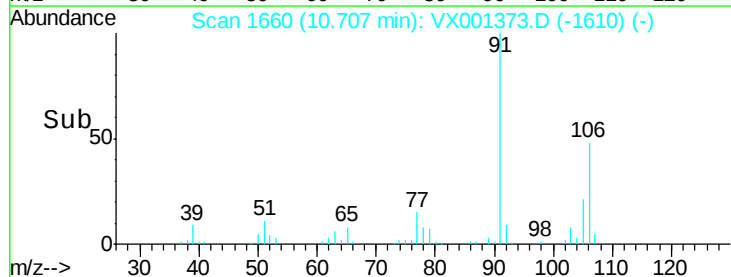
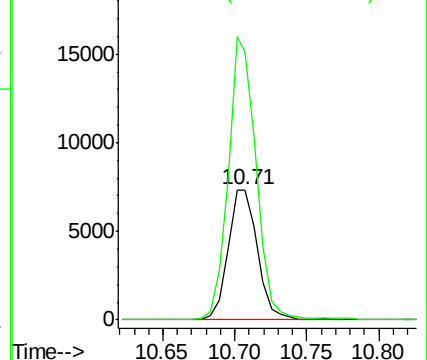


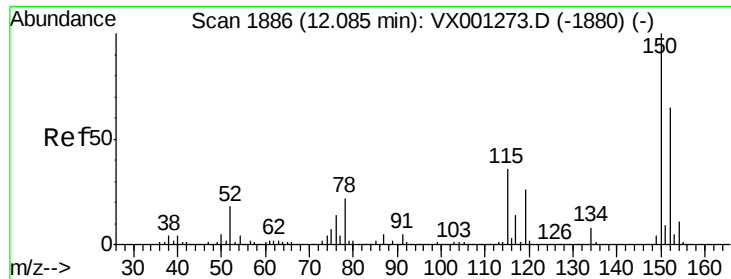
#69
o-Xylene
Concen: 3.21 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.01 min
Lab File: VX001373.D
Acq: 03 May 2018 21:33

Tgt Ion:106 Resp: 10507
Ion Ratio Lower Upper
106 100
91 206.1 106.3 319.0



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: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

EO-01-050218-A

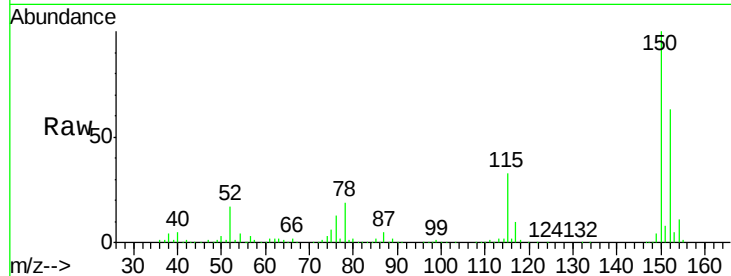
Tgt Ion:152 Resp: 94850

Ion Ratio Lower Upper

152 100

115 51.9 38.6 115.7

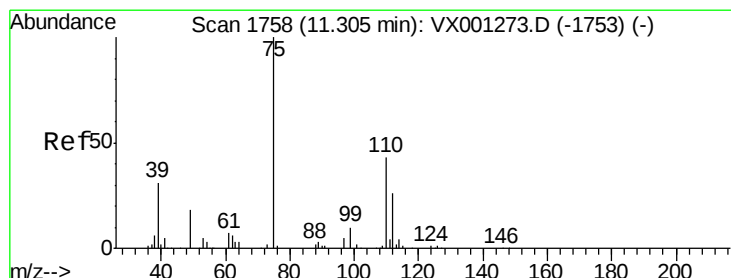
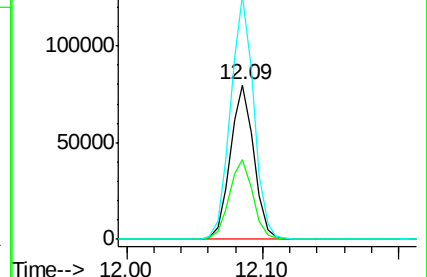
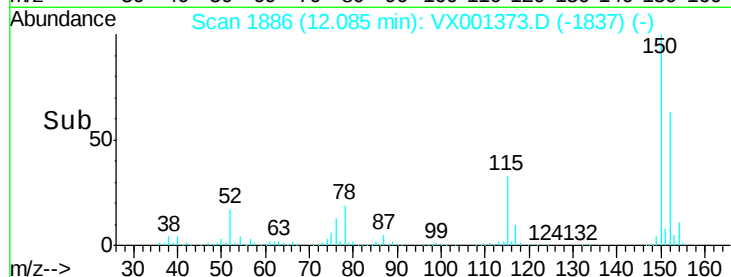
150 156.8 0.0 349.2



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: 23.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001373.D

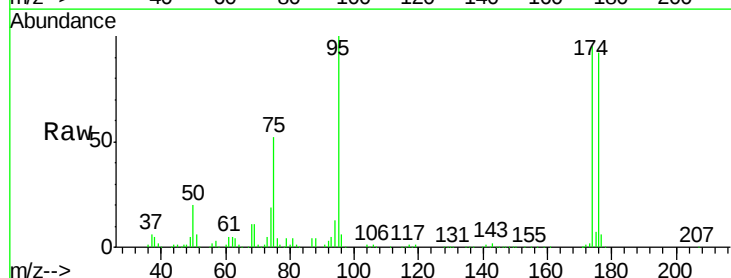
Acq: 03 May 2018 21:33

Tgt Ion: 75 Resp: 41698

Ion Ratio Lower Upper

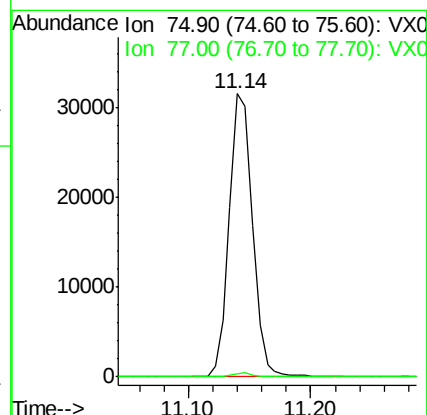
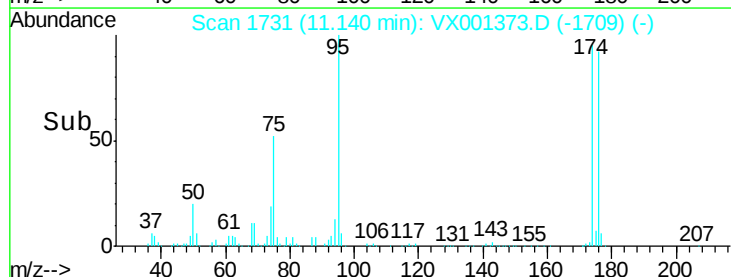
75 100

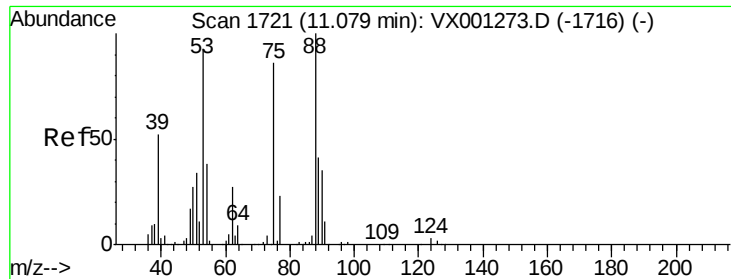
77 1.4 18.9 56.5#



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: 75.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

EO-01-050218-A

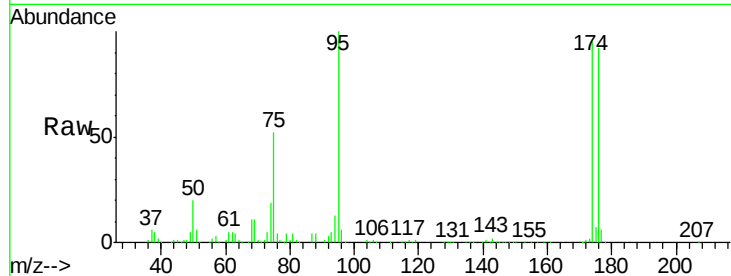
Tgt Ion: 75 Resp: 41698

Ion Ratio Lower Upper

75 100

53 0.1 87.1 130.7#

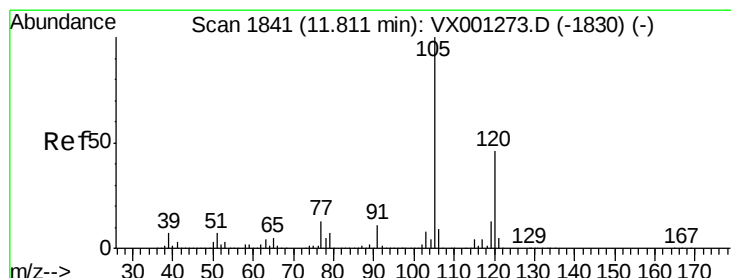
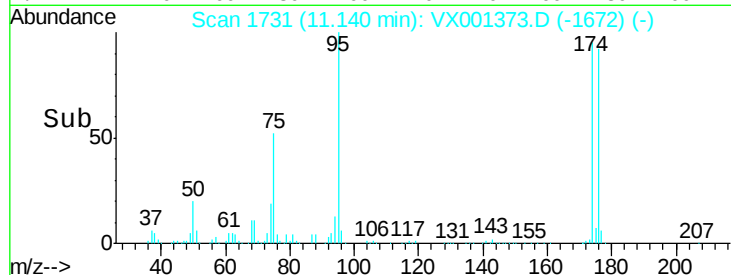
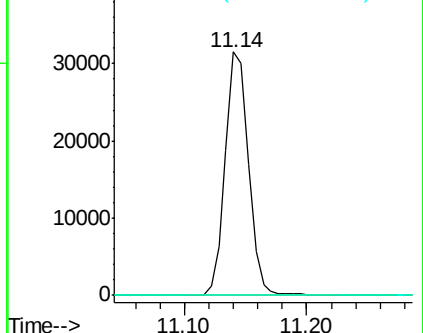
89 0.0 38.9 58.3#



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: 0.22 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX001373.D

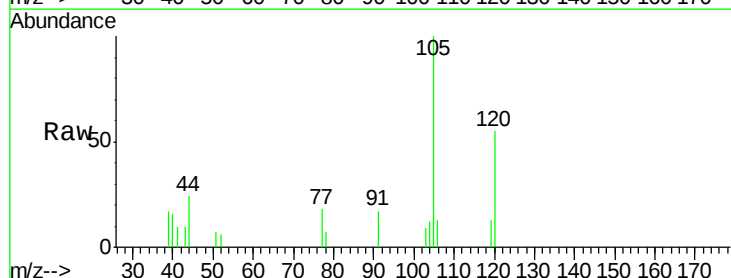
Acq: 03 May 2018 21:33

Tgt Ion: 105 Resp: 1190

Ion Ratio Lower Upper

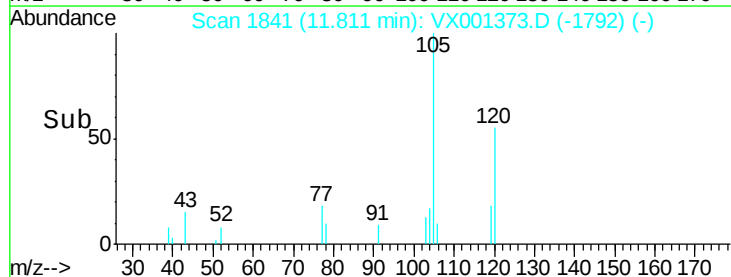
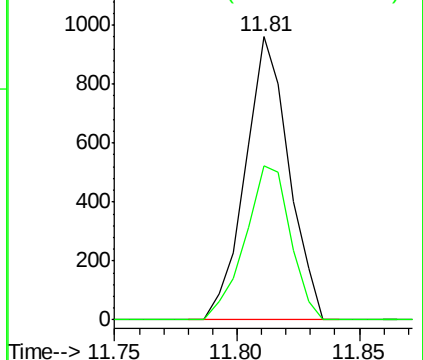
105 100

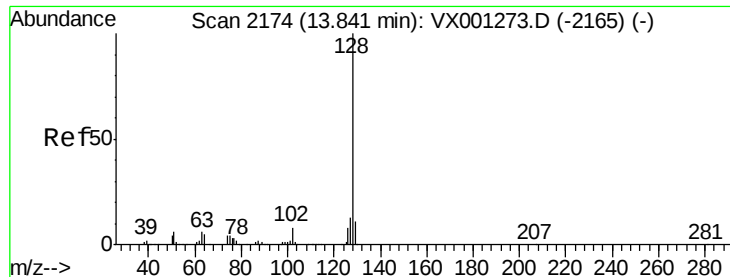
120 56.6 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 1.40 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001373.D

Acq: 03 May 2018 21:33

Instrument :

MSVOA_X

ClientSampleId :

EO-01-050218-A

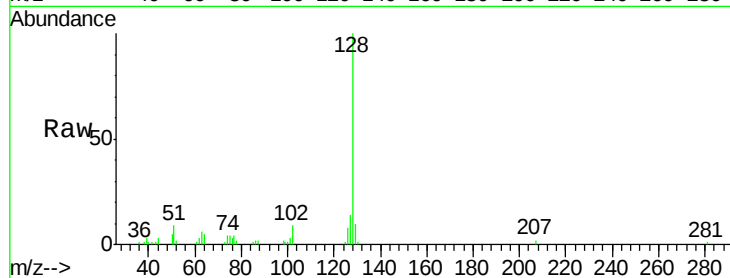
Tgt Ion:128 Resp: 9708

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

129 11.5 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

