

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX063018\
 Data File : VX003075.D
 Acq On : 30 Jun 2018 13:37
 Operator : JC/MD
 Sample : J3675-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-EB-2018-1

Quant Time: Jul 02 02:40:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	292426	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	404219	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	371075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	209410	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	187638	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
35) Dibromofluoromethane	5.51	113	153685	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
50) Toluene-d8	8.72	98	559018	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
62) 4-Bromofluorobenzene	11.14	95	198050	43.93	ug/l	0.00
Spiked Amount			Recovery	=	87.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	183	Below Cal	#	43
3) Chloromethane	1.32	50	579	Below Cal		89
5) Bromomethane	1.65	94	1928	Below Cal		84
6) Chloroethane	1.70	64	399	Below Cal	#	82
10) Methyl Iodide	2.52	142	2702	6.95	ug/l	# 89
11) Tert butyl alcohol	3.07	59	289	0.36	ug/l	95
13) Acrolein	2.30	56	172	4.61	ug/l	# 15
15) Acrylonitrile	3.17	53	411	0.24	ug/l	# 17
16) Acetone	2.45	43	5047	3.02	ug/l	94
17) Carbon Disulfide	2.57	76	1741	0.23	ug/l	# 35
20) Methylene Chloride	2.86	84	42333	13.00	ug/l	92
25) 2-Butanone	4.71	43	12727	5.12	ug/l	# 89
29) Tetrahydrofuran	5.17	42	470944	295.62	ug/l	98
36) 1,1-Dichloropropene	5.67	75	19121	4.31	ug/l	# 52
37) Ethyl Acetate	4.71	43	12727	2.67	ug/l	# 71
38) Carbon Tetrachloride	5.67	117	25693	5.28	ug/l	# 16
41) Methacrylonitrile	5.17	41	271449	98.77	ug/l	# 49
49) 1,4-Dioxane	7.51	88	20	0.25	ug/l	# 1
71) Bromoform	10.87	173	128	3.94	ug/l	# 28
76) 1,2,3-Trichloropropane	11.14	75	101345	26.72	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	101345	75.67	ug/l	# 7

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

Instrument :

MSVOA_X

ClientSampleId :

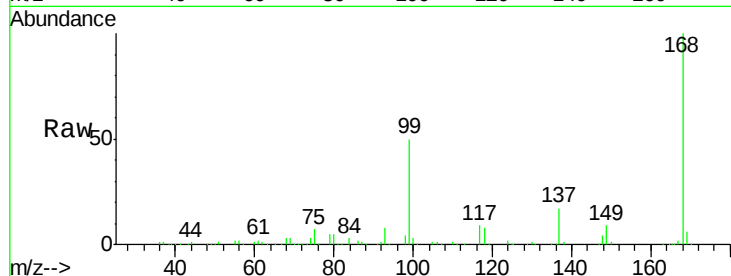
S73-EB-2018-1

Tot Ion:168 Resp: 292426

Ion Ratio Lower Upper

168 100

99 50.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

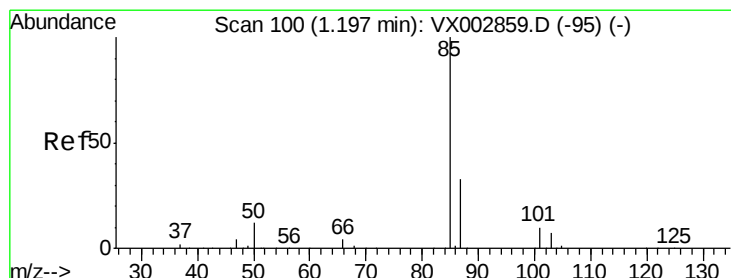
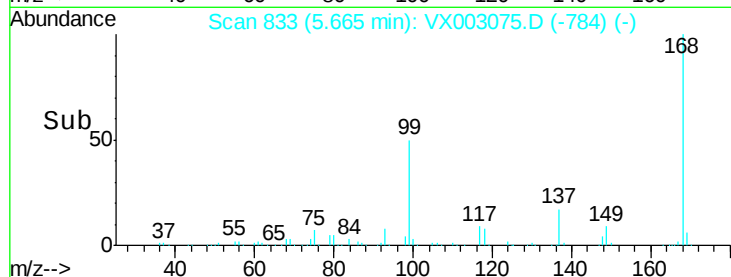
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX003075.D

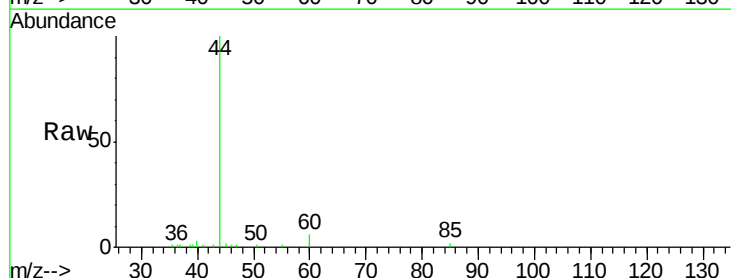
Acq: 30 Jun 2018 13:37

Tgt Ion: 85 Resp: 183

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

200

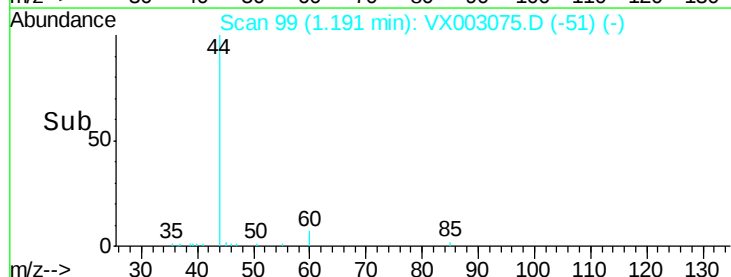
150

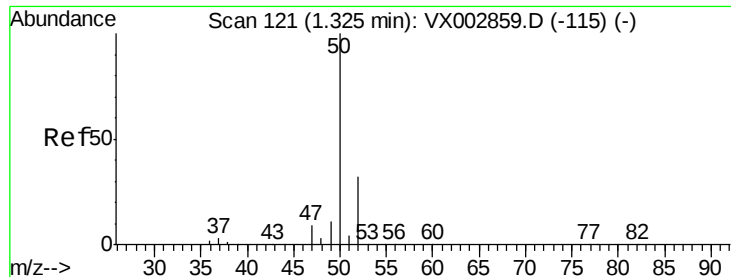
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

Instrument :

MSVOA_X

ClientSampleId :

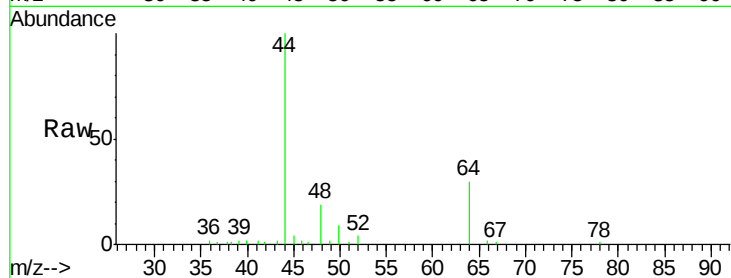
S73-EB-2018-1

Tot Ion: 50 Resp: 579

Ion Ratio Lower Upper

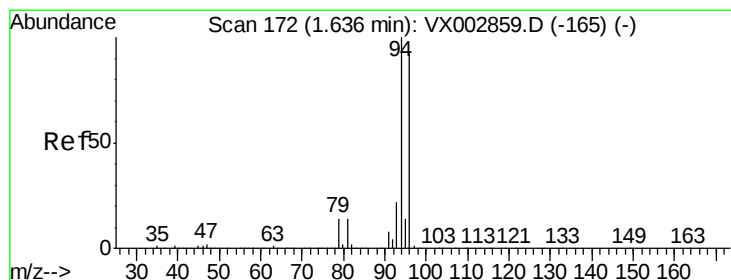
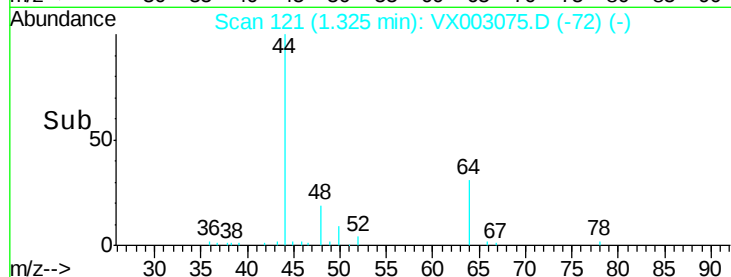
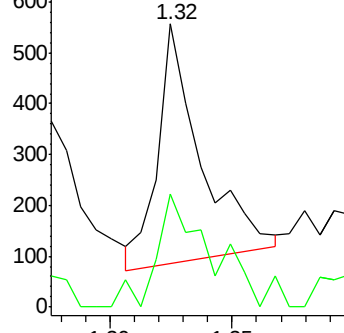
50 100

52 38.4 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003075.D

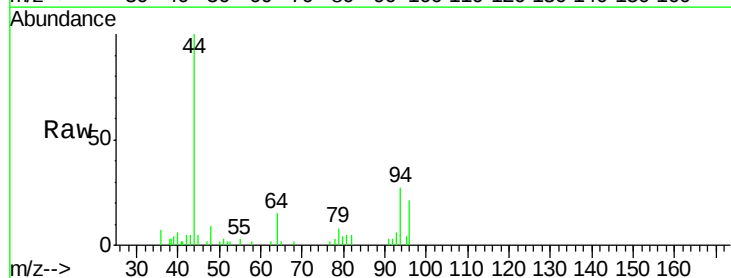
Acq: 30 Jun 2018 13:37

Tgt Ion: 94 Resp: 1928

Ion Ratio Lower Upper

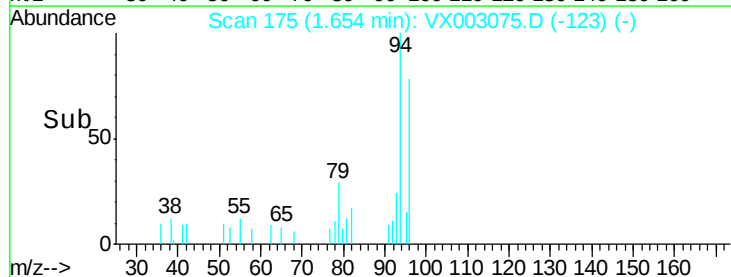
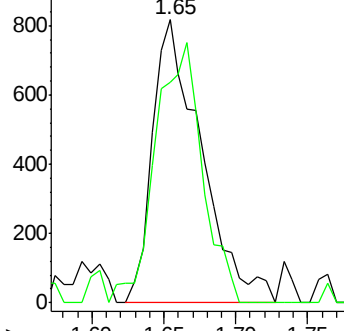
94 100

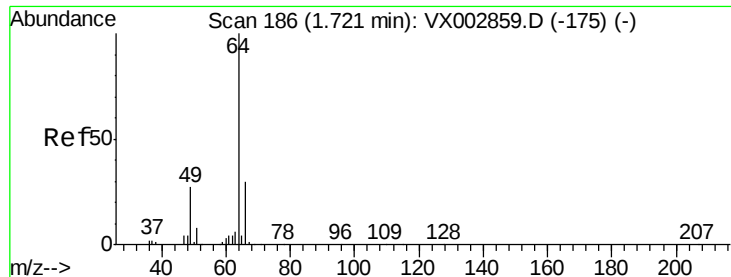
96 78.0 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

Instrument :

MSVOA_X

ClientSampleId :

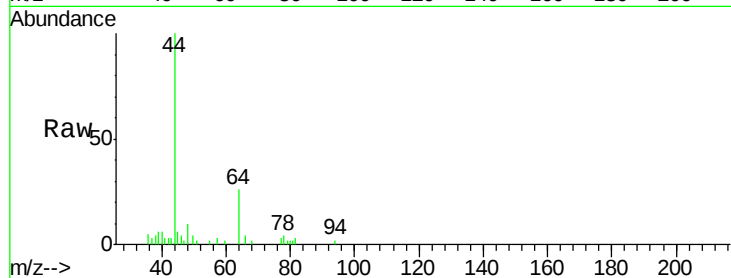
S73-EB-2018-1

Tot Ion: 64 Resp: 399

Ion Ratio Lower Upper

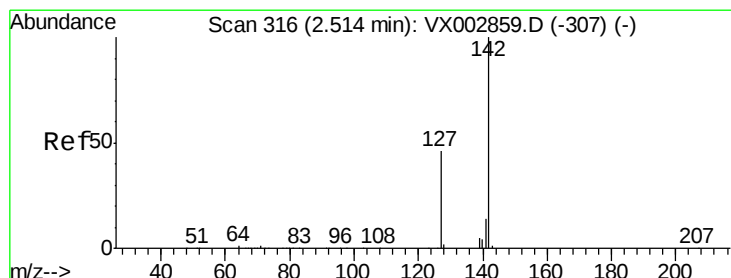
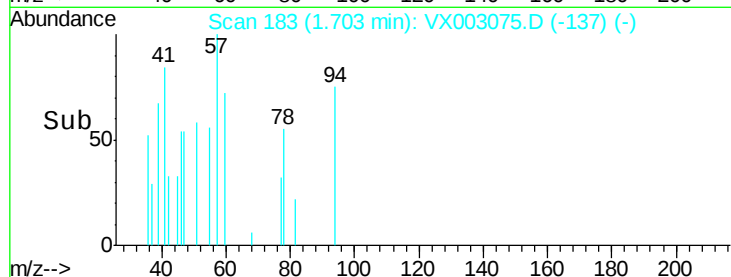
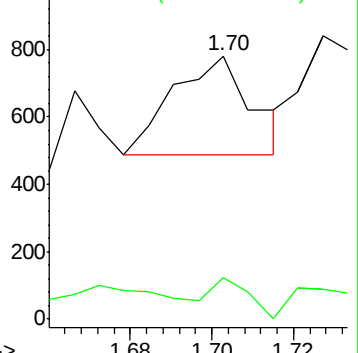
64 100

66 41.9 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.95 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

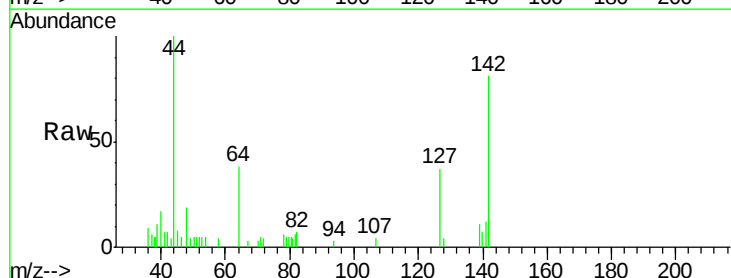
Tgt Ion: 142 Resp: 2702

Ion Ratio Lower Upper

142 100

127 53.0 36.6 55.0

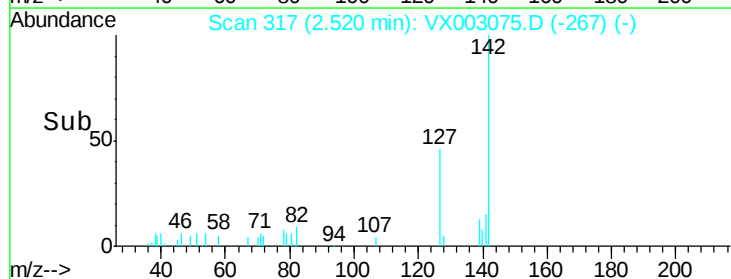
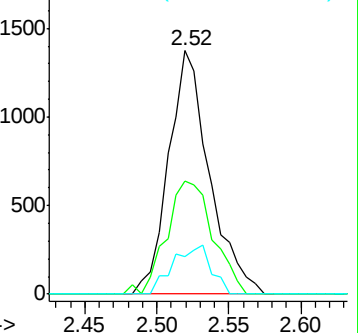
141 18.6 11.3 16.9#

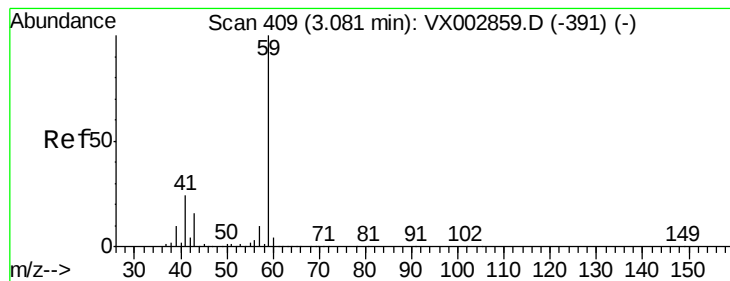


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



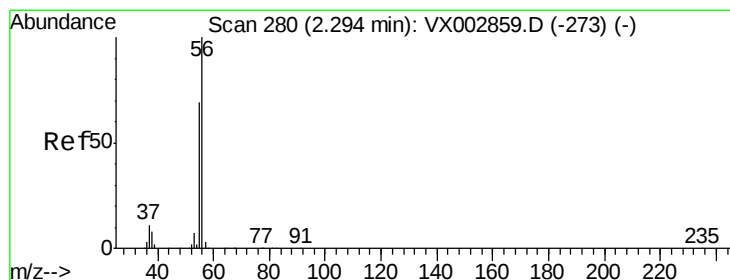
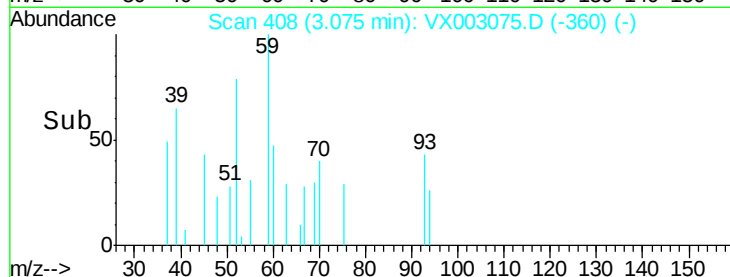
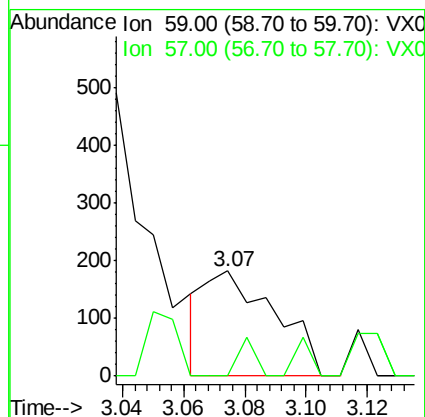
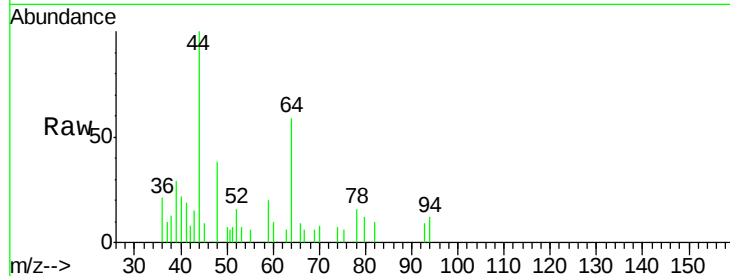


#11

Tert butyl alcohol
 Concen: 0.36 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX003075.D
 Acq: 30 Jun 2018 13:37

Instrument :
 MSVOA_X
 ClientSampleID :
 S73-EB-2018-1

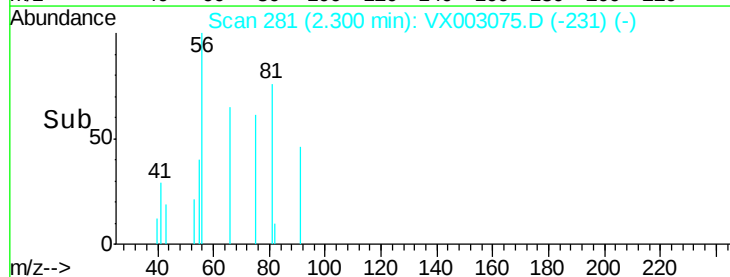
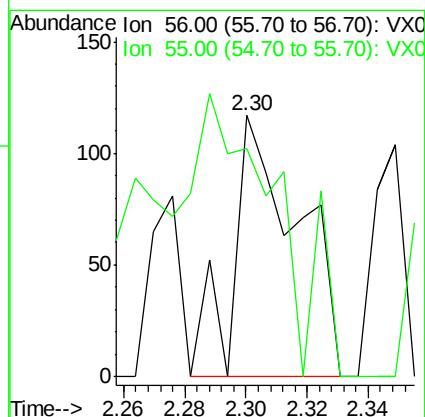
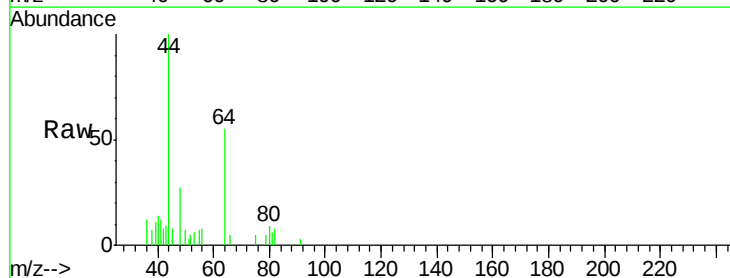
Tot Ion: 59 Resp: 289
 Ion Ratio Lower Upper
 59 100
 57 8.3 8.2 12.2

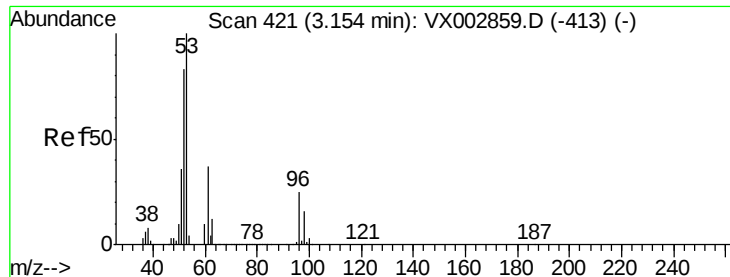


#13

Acrolein
 Concen: 4.61 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX003075.D
 Acq: 30 Jun 2018 13:37

Tgt Ion: 56 Resp: 172
 Ion Ratio Lower Upper
 56 100
 55 141.9 57.0 85.4#





#15

Acrylonitrile

Concen: 0.24 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.02 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

Instrument :

MSVOA_X

ClientSampled :

S73-EB-2018-1

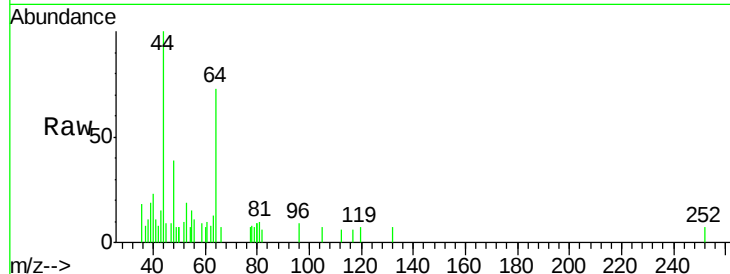
Tot Ion: 53 Resp: 411

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

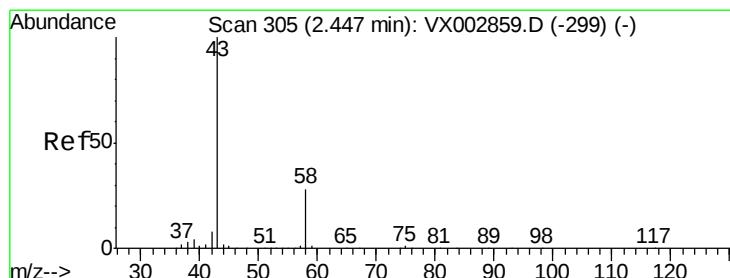
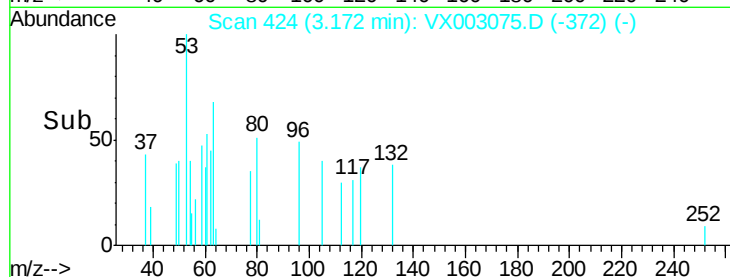
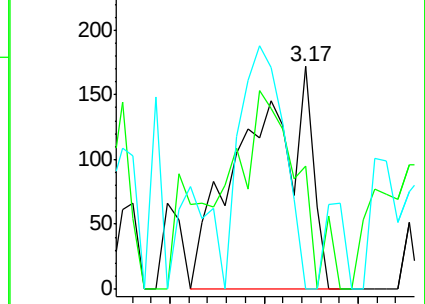
51 0.0 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 3.02 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003075.D

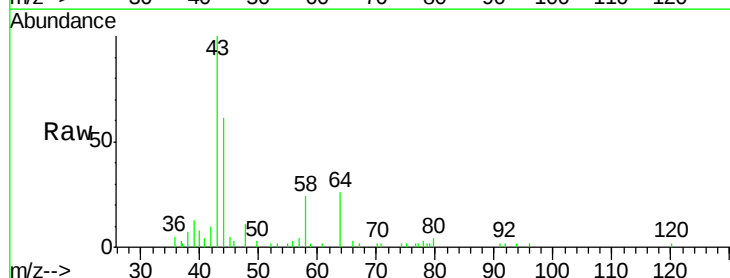
Acq: 30 Jun 2018 13:37

Tgt Ion: 43 Resp: 5047

Ion Ratio Lower Upper

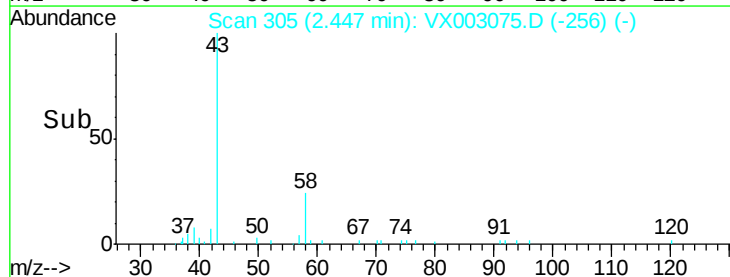
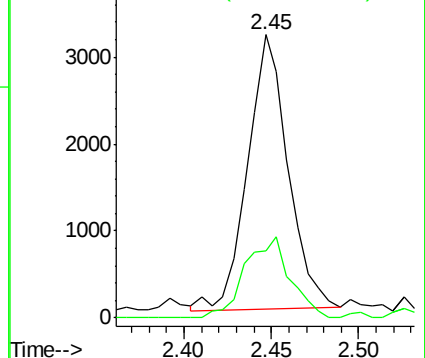
43 100

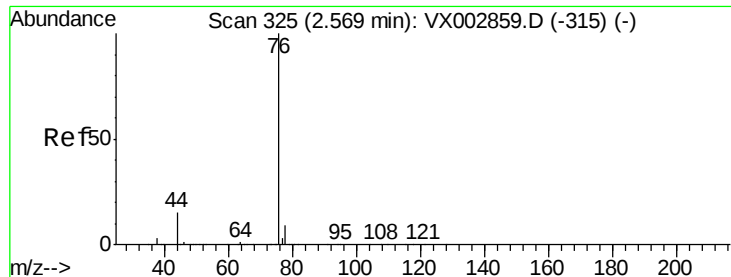
58 24.6 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

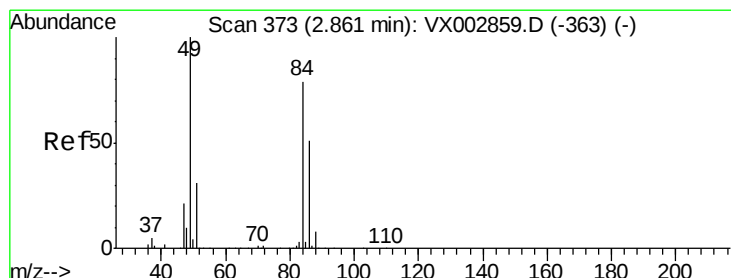
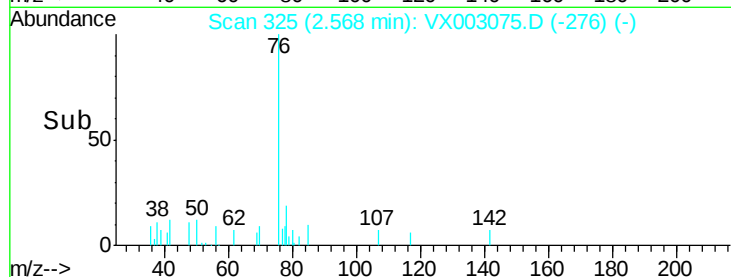
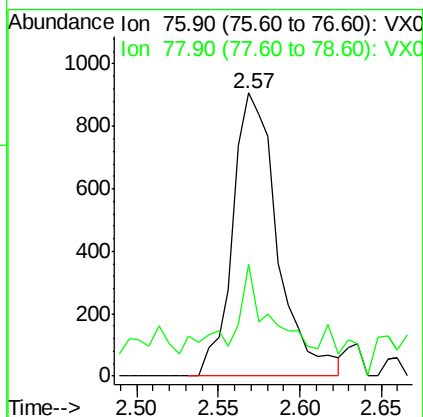
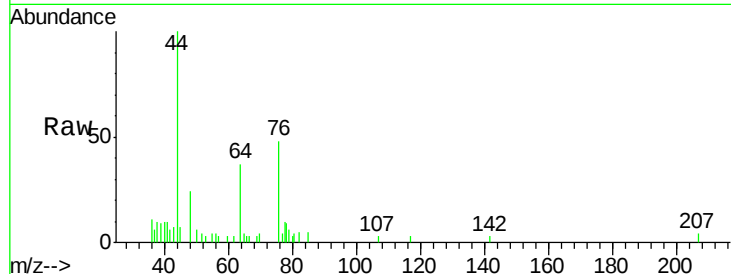




#17
Carbon Disulfide
Concen: 0.23 ug/l
RT: 2.57 min Scan# 325
Delta R.T. -0.00 min
Lab File: VX003075.D
Acq: 30 Jun 2018 13:37

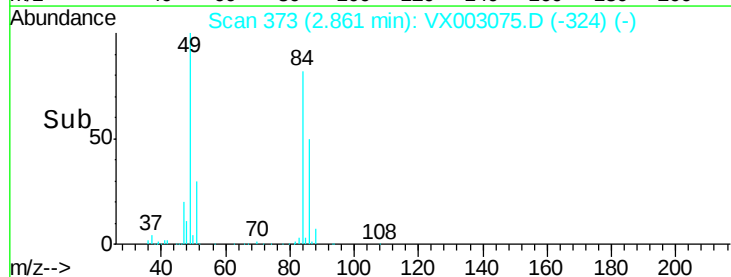
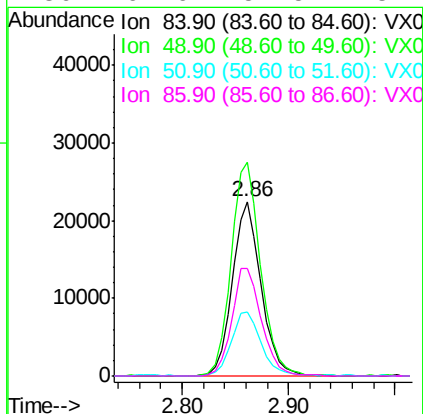
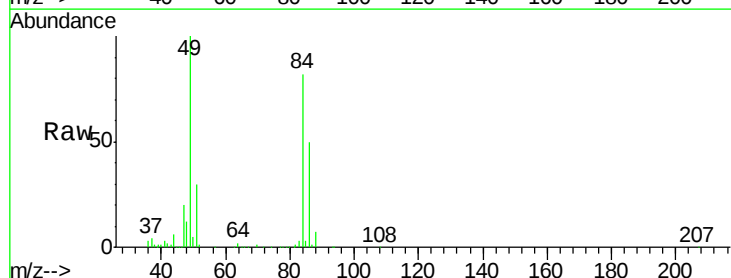
Instrument :
MSVOA_X
ClientSampled :
S73-EB-2018-1

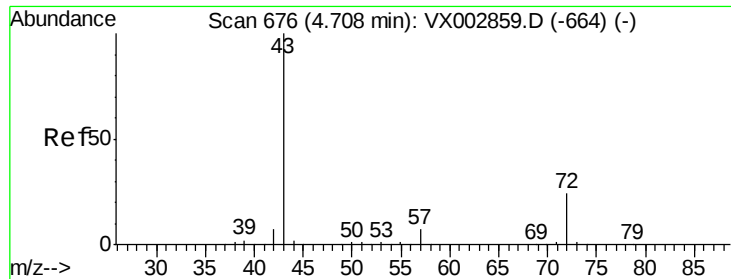
Tot Ion: 76 Resp: 1741
Ion Ratio Lower Upper
76 100
78 31.8 6.9 10.3#



#20
Methylene Chloride
Concen: 13.00 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX003075.D
Acq: 30 Jun 2018 13:37

Tgt Ion: 84 Resp: 42333
Ion Ratio Lower Upper
84 100
49 122.4 107.8 161.6
51 36.8 32.8 49.2
86 61.6 52.5 78.7





#25

2-Butanone

Concen: 5.12 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

Instrument :

MSVOA_X

ClientSampleId :

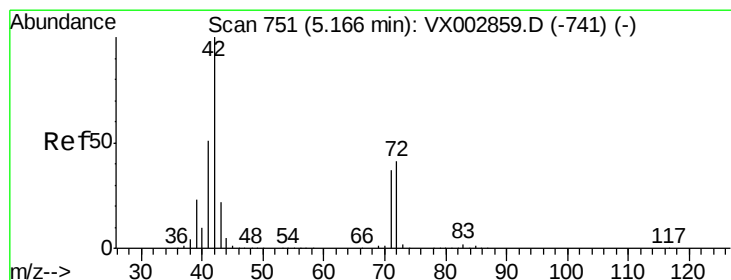
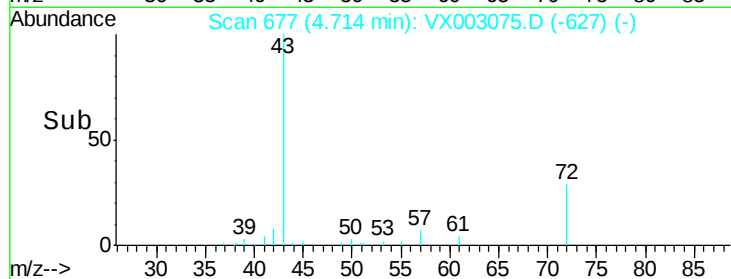
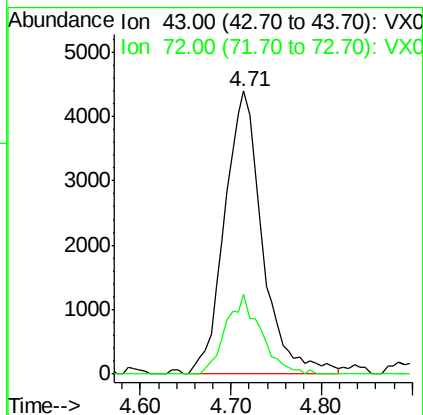
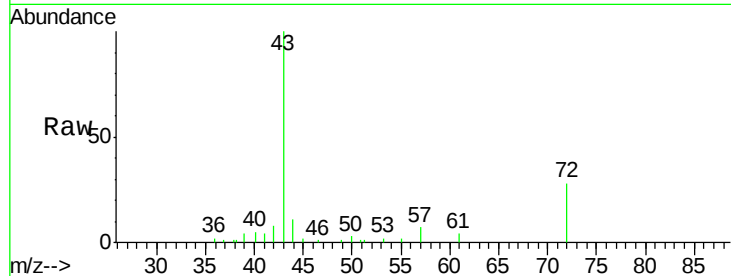
S73-EB-2018-1

Tot Ion: 43 Resp: 12727

Ion Ratio Lower Upper

43 100

72 28.4 18.5 27.7#



#29

Tetrahydrofuran

Concen: 295.62 ug/l

RT: 5.17 min Scan# 751

Delta R.T. -0.00 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

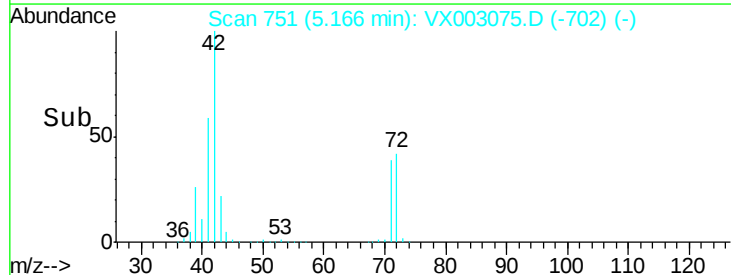
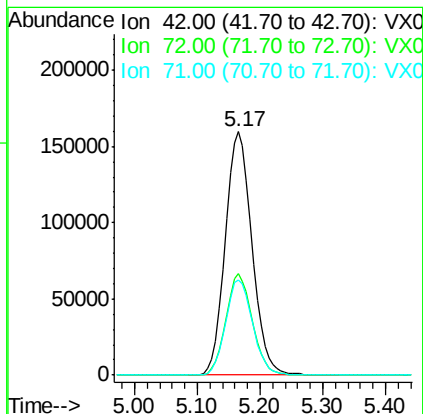
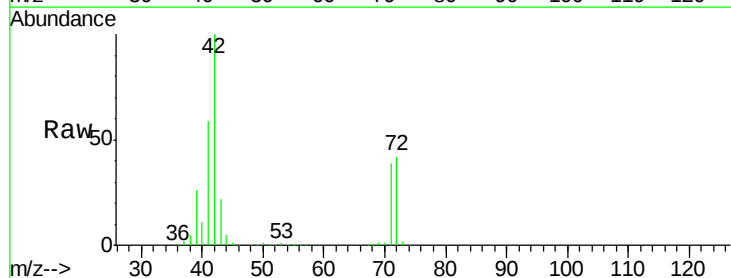
Tgt Ion: 42 Resp: 470944

Ion Ratio Lower Upper

42 100

72 41.2 32.0 48.0

71 39.3 30.1 45.1

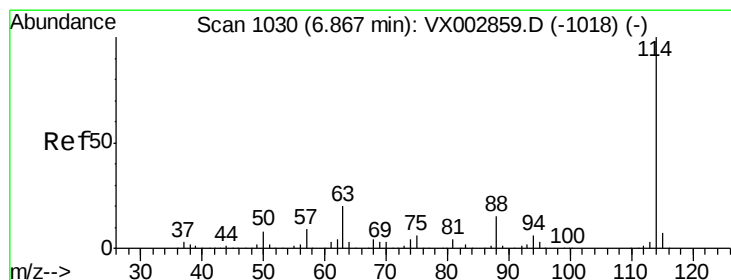
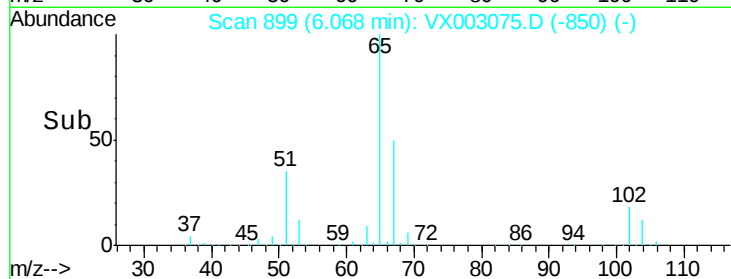
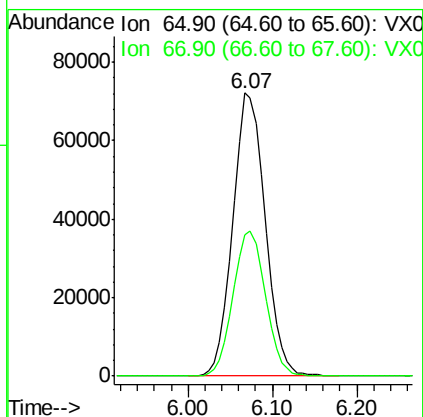
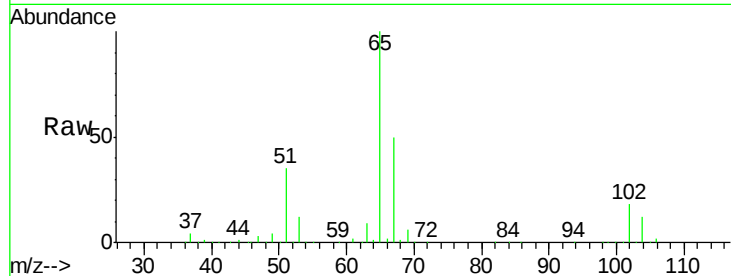




#33
 1,2-Dichloroethane-d4
 Concen: 46.42 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX003075.D
 Acq: 30 Jun 2018 13:37

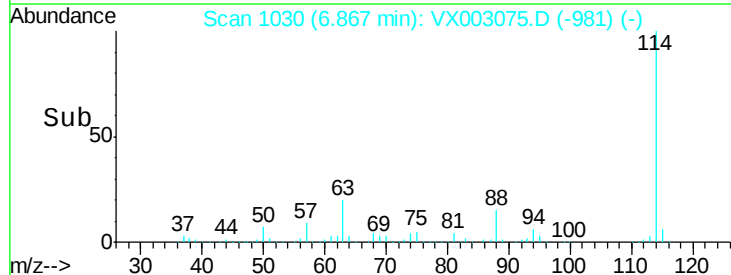
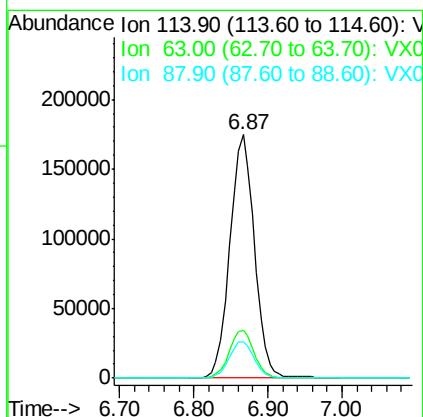
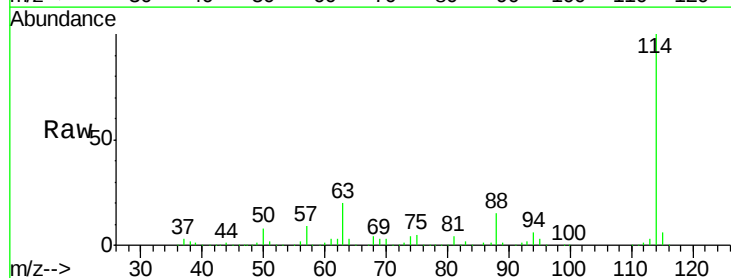
Instrument :
 MSVOA_X
 ClientSampleId :
 S73-EB-2018-1

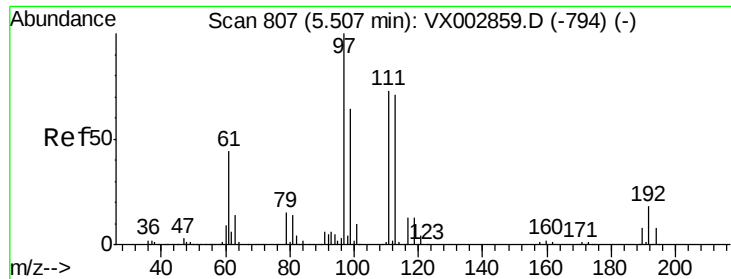
Tot Ion: 65 Resp: 187638
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003075.D
 Acq: 30 Jun 2018 13:37

Tgt Ion: 114 Resp: 404219
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.4
 88 15.0 0.0 30.0

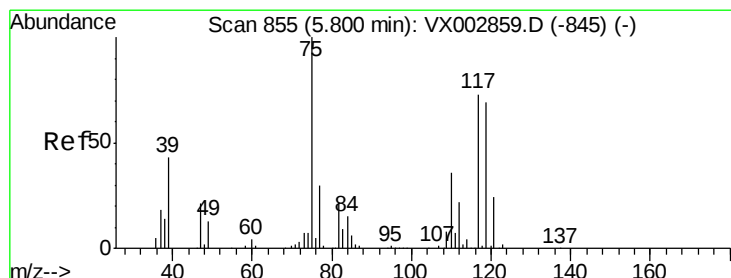
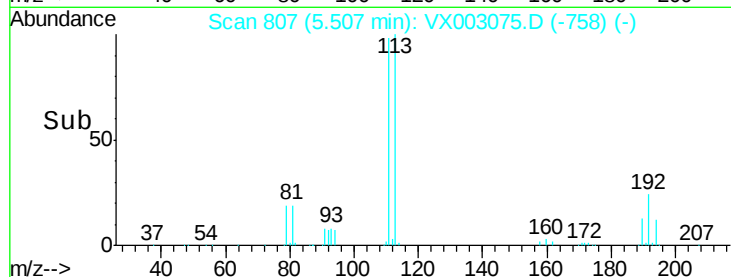
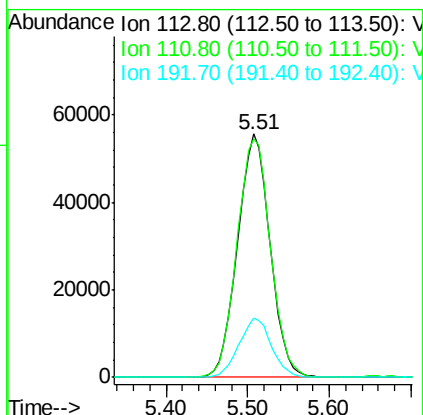
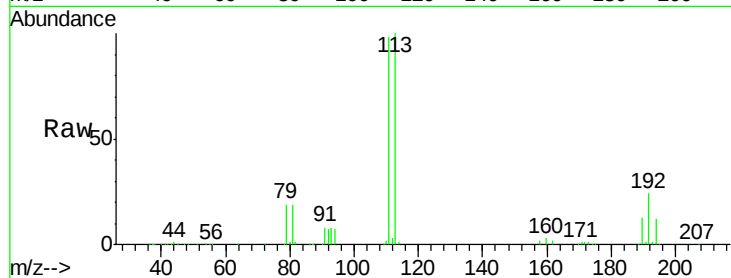




#35
 Dibromofluoromethane
 Concen: 48.01 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003075.D
 Acq: 30 Jun 2018 13:37

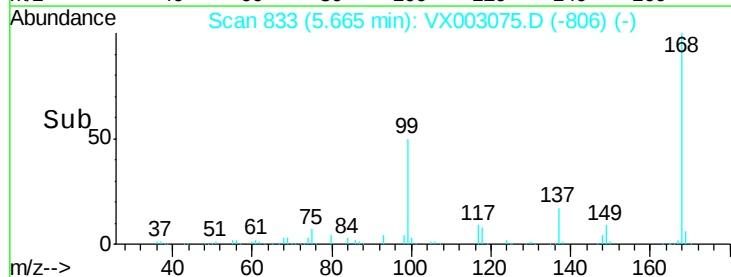
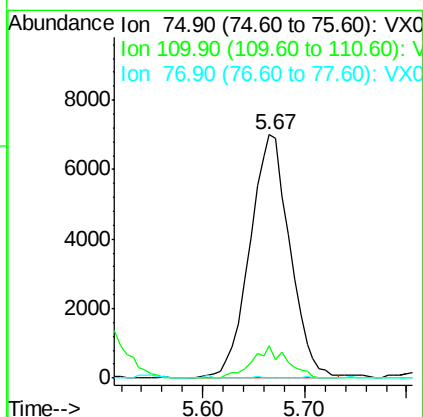
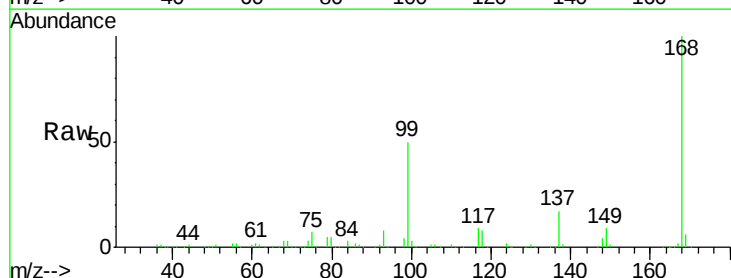
Instrument :
 MSVOA_X
 ClientSampleId :
 S73-EB-2018-1

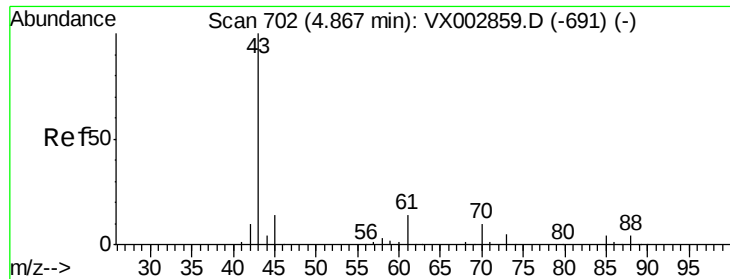
Tot Ion:113 Resp: 153685
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.4 122.0
 192 24.4 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.31 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003075.D
 Acq: 30 Jun 2018 13:37

Tgt Ion: 75 Resp: 19121
 Ion Ratio Lower Upper
 75 100
 110 11.3 18.1 54.4#
 77 0.1 24.3 36.5#





#37

Ethyl Acetate

Concen: 2.67 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.15 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

Instrument :

MSVOA_X

ClientSampleId :

S73-EB-2018-1

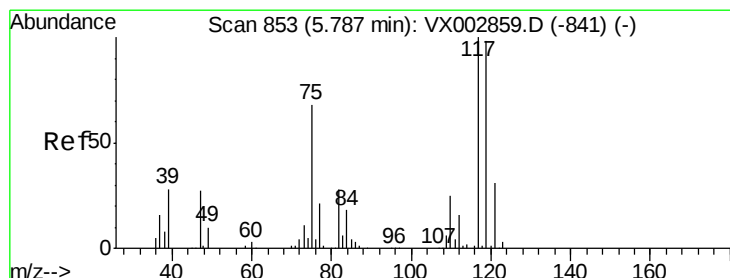
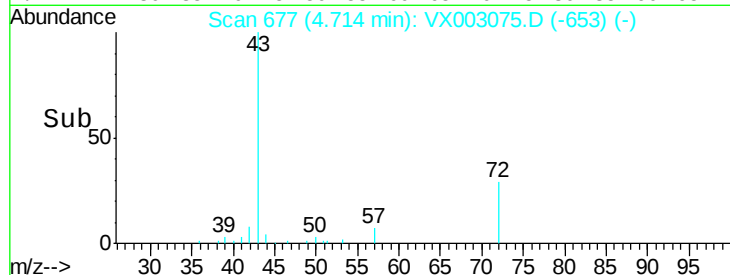
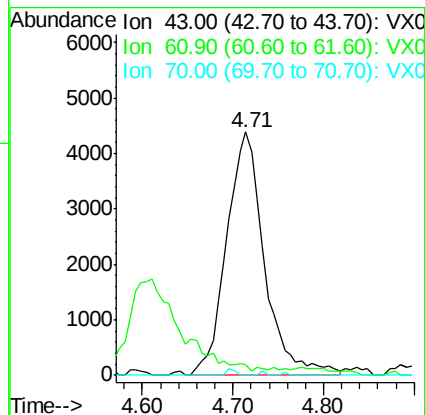
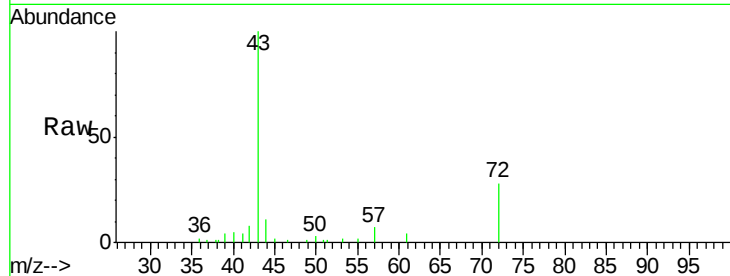
Tot Ion: 43 Resp: 12727

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

70 0.6 7.6 11.4#



#38

Carbon Tetrachloride

Concen: 5.28 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

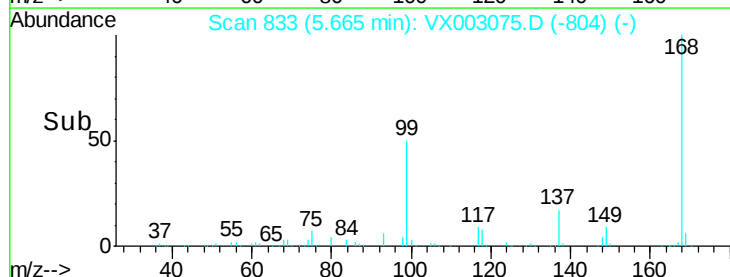
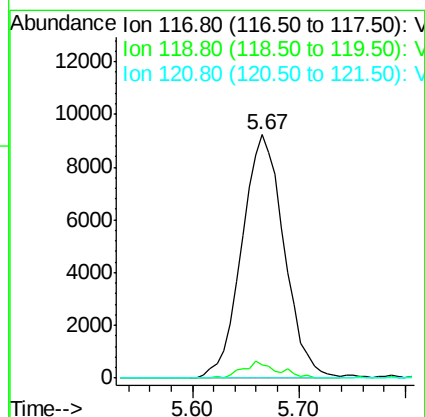
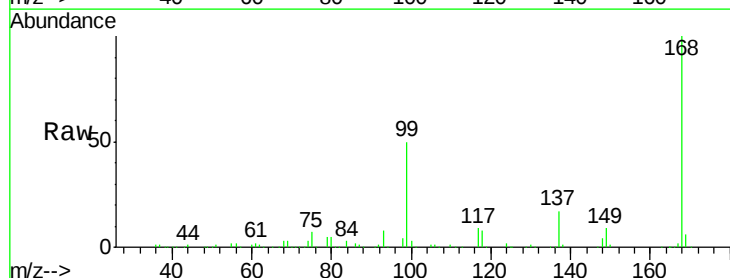
Tgt Ion: 117 Resp: 25693

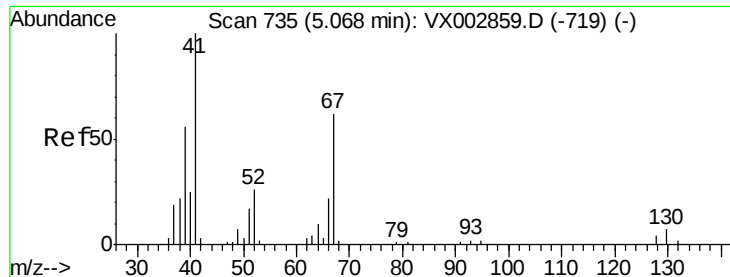
Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

121 0.0 24.4 36.6#

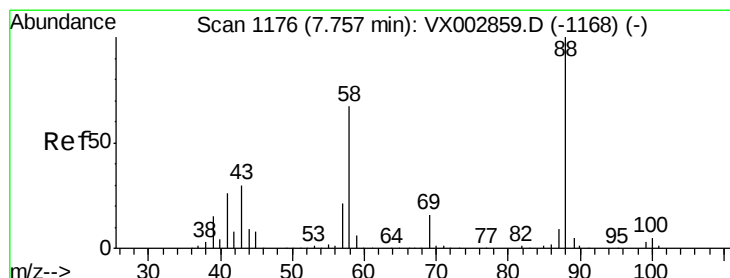
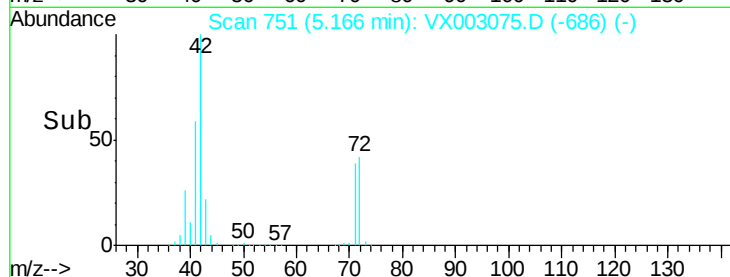
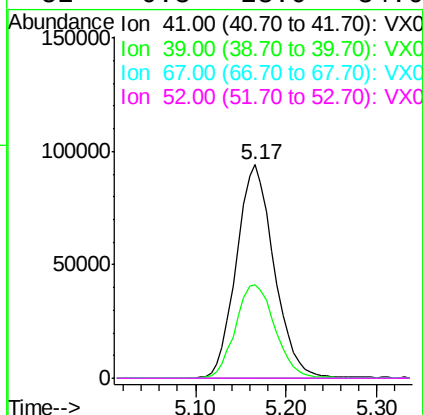
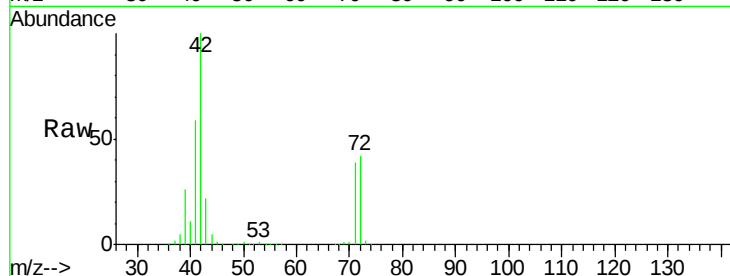




#41
Methacrylonitrile
Concen: 98.77 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.10 min
Lab File: VX003075.D
Acq: 30 Jun 2018 13:37

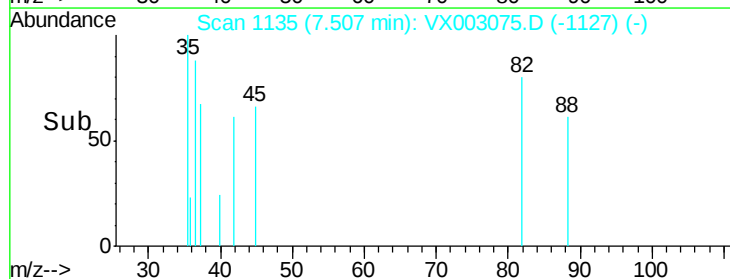
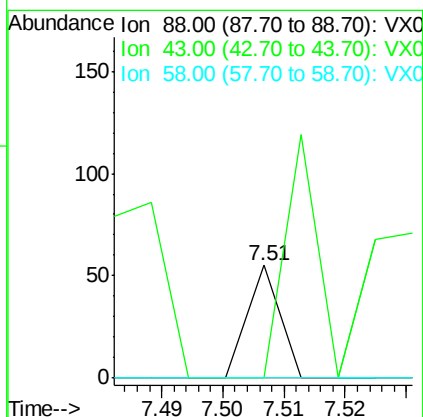
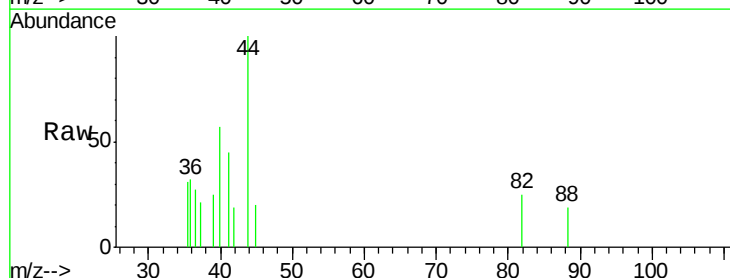
Instrument :
MSVOA_X
ClientSampleId :
S73-EB-2018-1

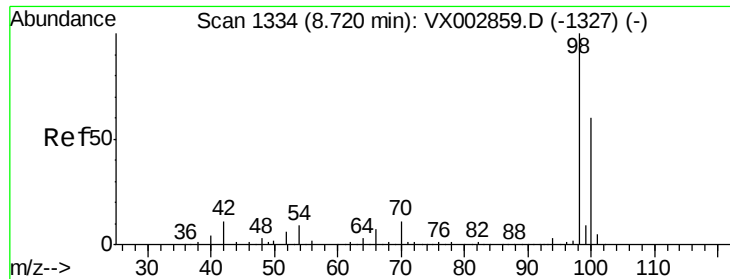
Tot Ion:	41	Resp:	271449
Ion	Ratio	Lower	Upper
41	100		
39	46.3	45.8	68.6
67	0.0	51.3	76.9#
52	0.3	23.0	34.6#



#49
1,4-Dioxane
Concen: 0.25 ug/l
RT: 7.51 min Scan# 1135
Delta R.T. -0.25 min
Lab File: VX003075.D
Acq: 30 Jun 2018 13:37

Tgt Ion:	88	Resp:	20
Ion	Ratio	Lower	Upper
88	100		
43	215.0	29.8	44.6#
58	0.0	57.1	85.7#





#50

Toluene-d8

Concen: 47.82 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

Instrument :

MSVOA_X

ClientSampleId :

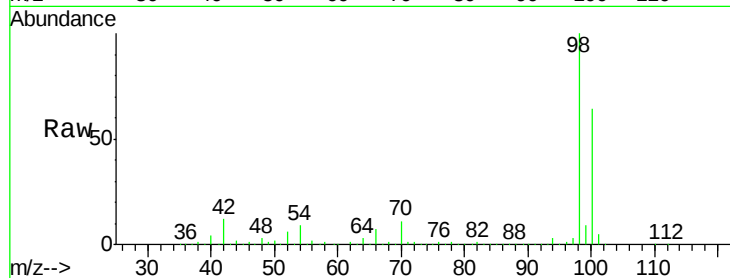
S73-EB-2018-1

Tot Ion: 98 Resp: 559018

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

400000

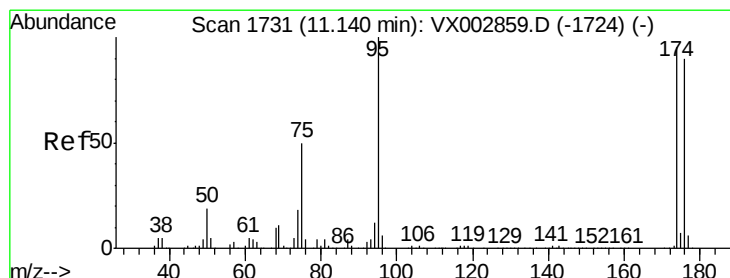
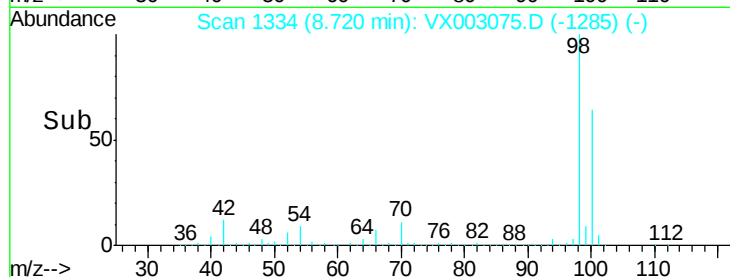
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.93 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

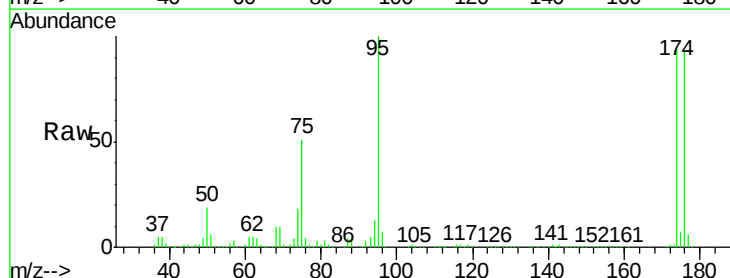
Tgt Ion: 95 Resp: 198050

Ion Ratio Lower Upper

95 100

174 96.4 0.0 187.4

176 94.7 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

200000

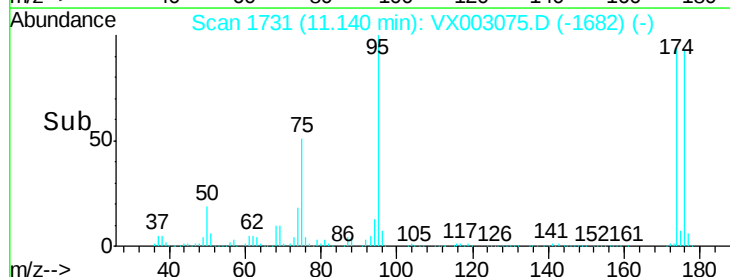
150000

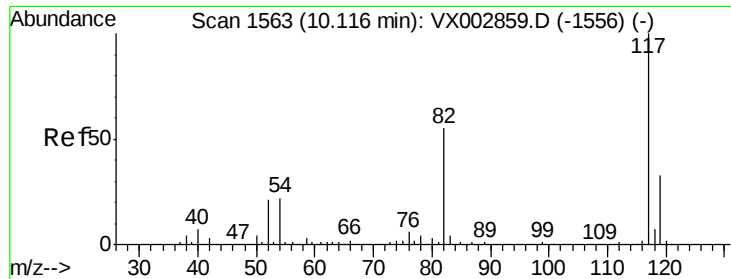
100000

50000

0

Time-->

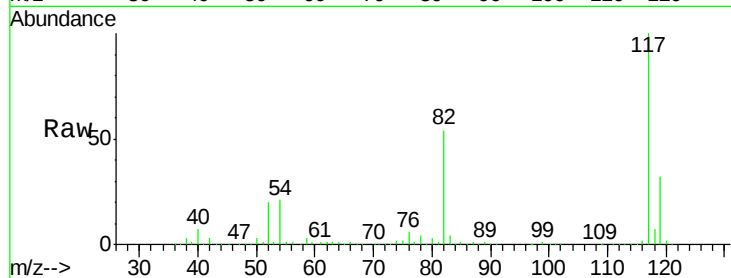




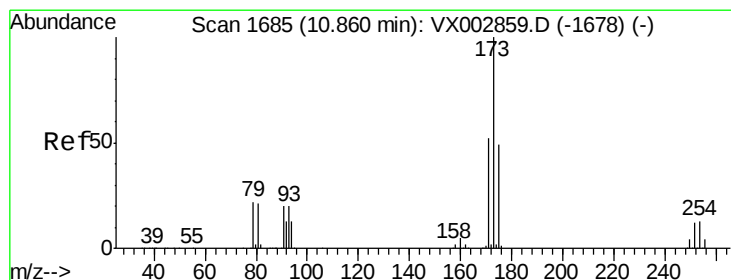
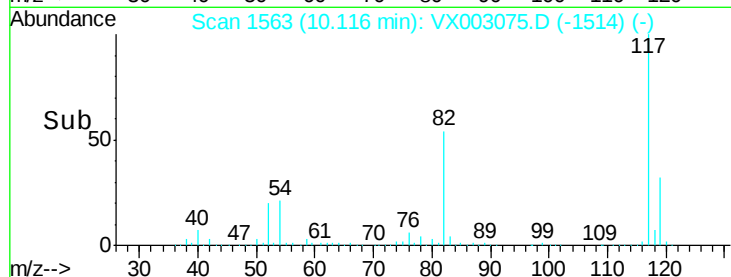
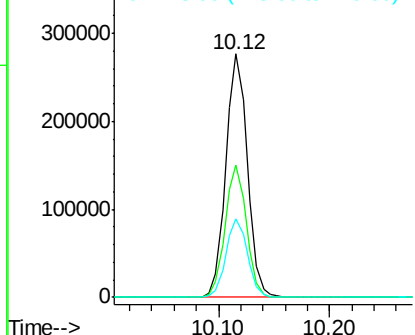
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003075.D
Acq: 30 Jun 2018 13:37

Instrument :
MSVOA_X
ClientSampleId :
S73-EB-2018-1

Tot Ion:117 Resp: 371075
Ion Ratio Lower Upper
117 100
82 54.2 45.0 67.4
119 32.1 25.8 38.6

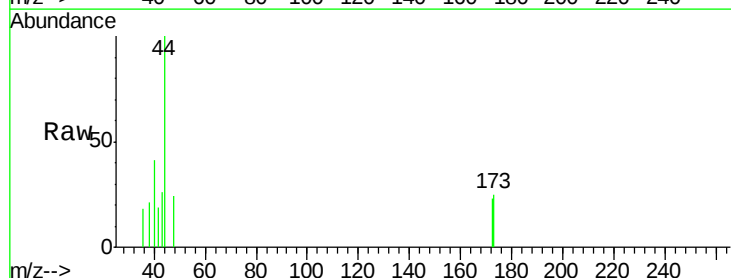


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

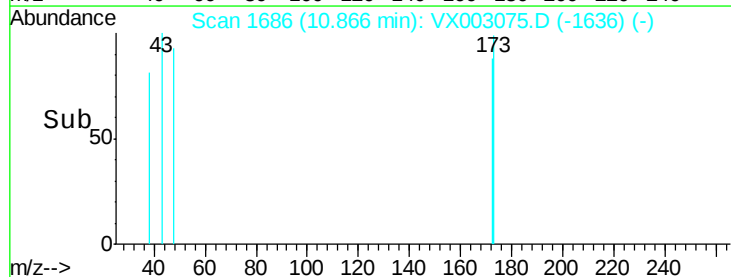
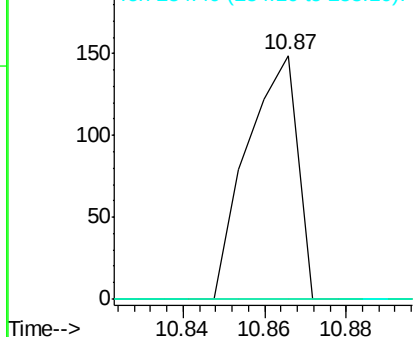


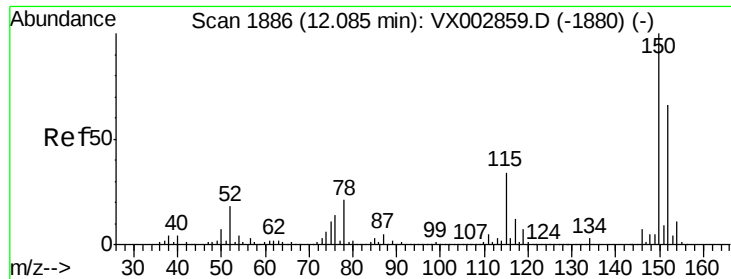
#71
Bromoform
Concen: 3.94 ug/l
RT: 10.87 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VX003075.D
Acq: 30 Jun 2018 13:37

Tgt Ion:173 Resp: 128
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

Instrument :

MSVOA_X

ClientSampleId :

S73-EB-2018-1

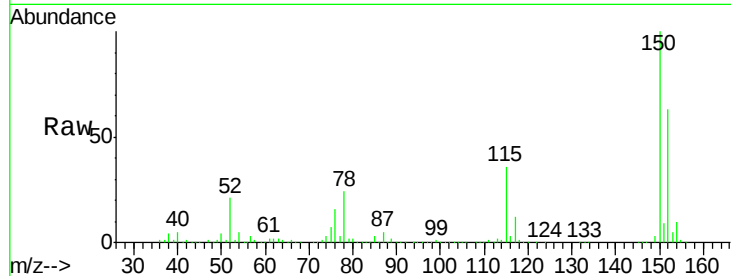
Tot Ion:152 Resp: 209410

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

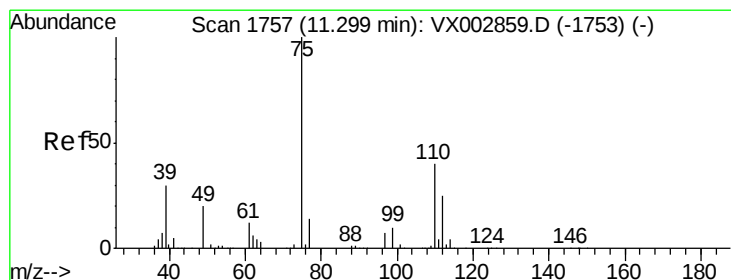
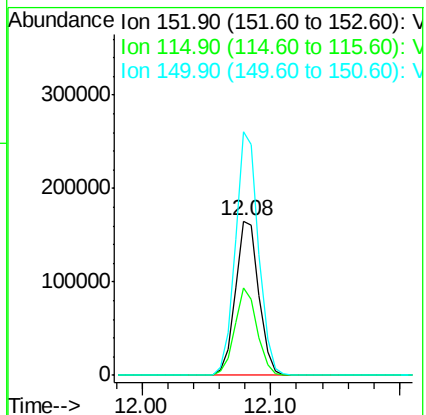
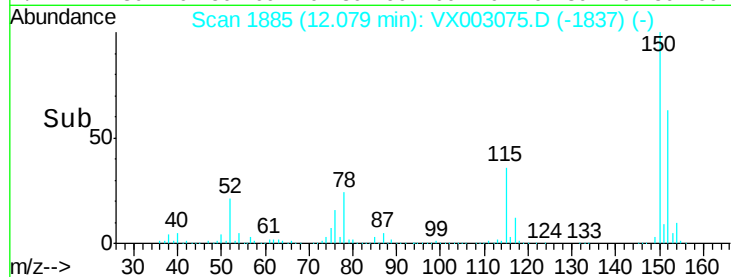
150 154.9 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003075.D

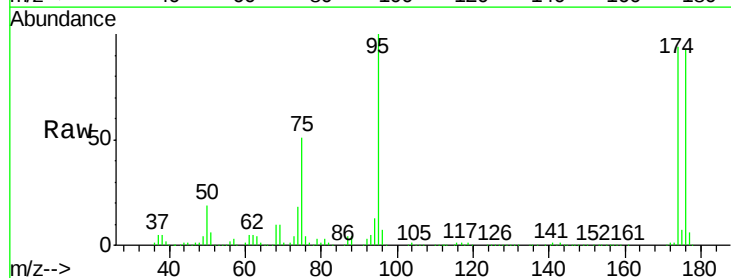
Acq: 30 Jun 2018 13:37

Tgt Ion: 75 Resp: 101345

Ion Ratio Lower Upper

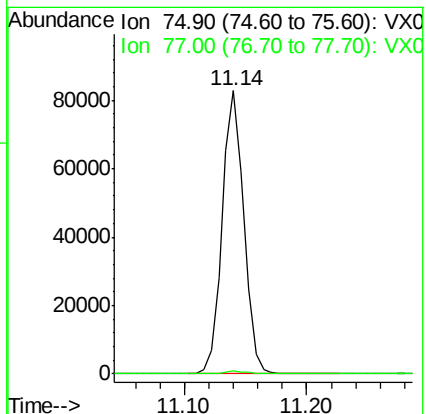
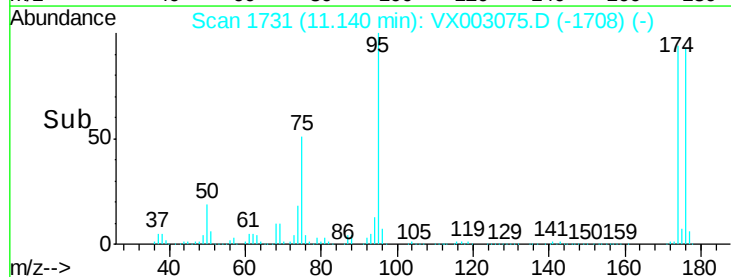
75 100

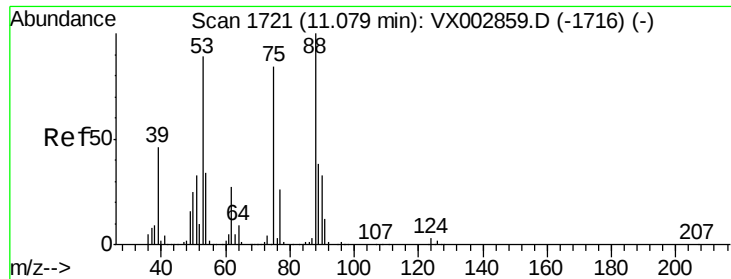
77 1.1 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 75.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003075.D

Acq: 30 Jun 2018 13:37

Instrument :

MSVOA_X

ClientSampleId :

S73-EB-2018-1

Tot Ion: 75 Resp: 101345

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

