

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062218\
 Data File : VX002839.D
 Acq On : 22 Jun 2018 19:06
 Operator : JC/MD
 Sample : J3631-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S83-EB-2018-1

Quant Time: Jun 23 00:25:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	243907	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	339576	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	316089	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	174670	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	165422	44.63	ug/l	0.00
Spiked Amount			Recovery	=	89.26%	
35) Dibromofluoromethane	5.51	113	129153	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	
50) Toluene-d8	8.72	98	479929	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
62) 4-Bromofluorobenzene	11.14	95	167778	43.03	ug/l	0.00
Spiked Amount			Recovery	=	86.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	652	0.21	ug/l #	78
5) Bromomethane	1.66	94	1183	0.61	ug/l #	80
10) Methyl Iodide	2.52	142	1145	5.44	ug/l #	87
11) Tert butyl alcohol	3.07	59	247	0.32	ug/l #	63
13) Acrolein	2.29	56	343	7.79	ug/l	89
16) Acetone	2.45	43	8444	5.16	ug/l	95
17) Carbon Disulfide	2.57	76	1504	0.23	ug/l #	90
20) Methylene Chloride	2.86	84	63556	18.96	ug/l	94
25) 2-Butanone	4.71	43	36966	17.21	ug/l	97
28) Bromochloromethane	5.17	49	1832	0.74	ug/l #	13
29) Tetrahydrofuran	5.17	42	655104	465.46	ug/l	98
31) Cyclohexane	5.67	56	5023	1.15	ug/l #	10
36) 1,1-Dichloropropene	5.67	75	16963	4.70	ug/l #	51
37) Ethyl Acetate	4.71	43	36966	9.06	ug/l #	71
38) Carbon Tetrachloride	5.67	117	22336	6.22	ug/l #	16
41) Methacrylonitrile	5.17	41	379864	164.81	ug/l #	50
53) t-1,3-Dichloropropene	8.45	75	55	2.41	ug/l #	1
54) cis-1,3-Dichloropropene	9.05	75	107	3.24	ug/l #	56
60) Dibromochloromethane	9.59	129	141	3.80	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	89797	27.24	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	89797	84.06	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampled :

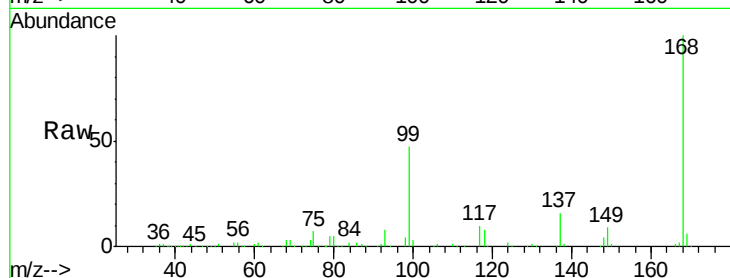
S83-EB-2018-1

Tot Ion:168 Resp: 243907

Ion Ratio Lower Upper

168 100

99 47.5 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

80000

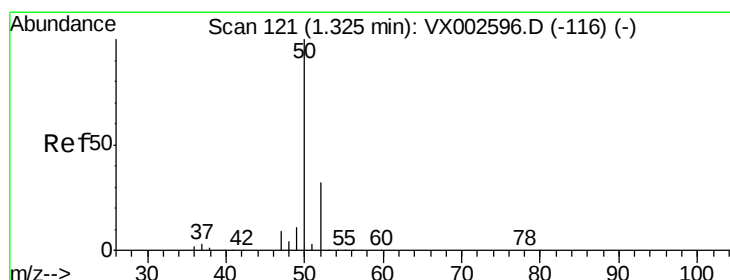
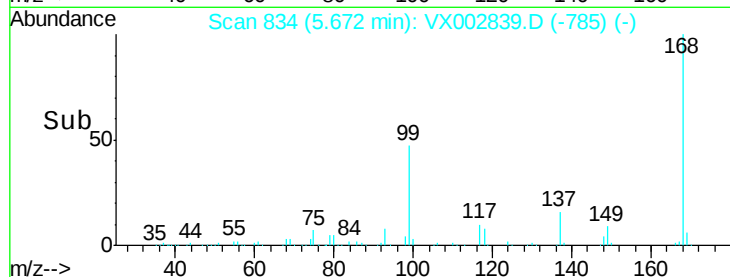
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002839.D

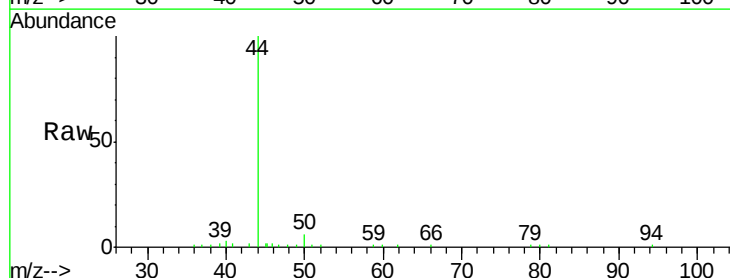
Acq: 22 Jun 2018 19:06

Tgt Ion: 50 Resp: 652

Ion Ratio Lower Upper

50 100

52 19.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

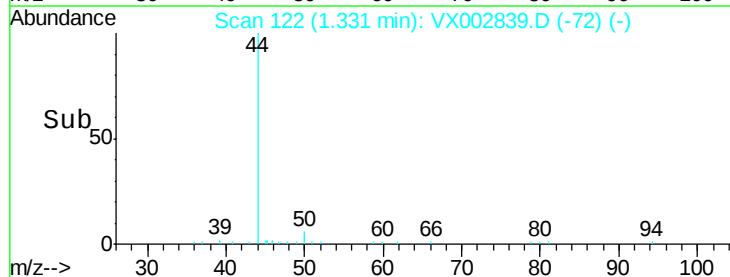
300

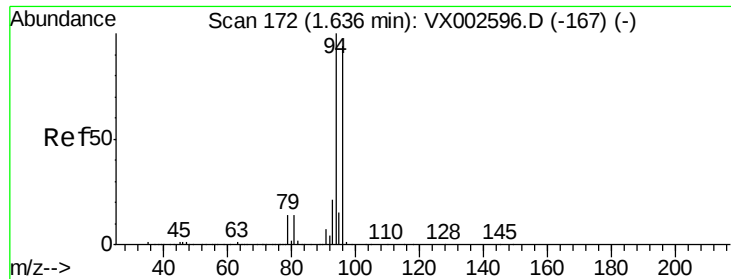
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.61 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampleId :

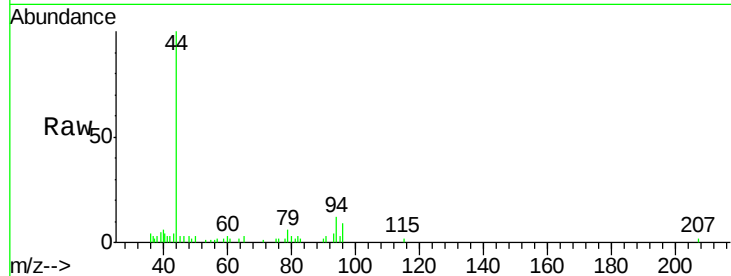
S83-EB-2018-1

Tot Ion: 94 Resp: 1183

Ion Ratio Lower Upper

94 100

96 74.8 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

400

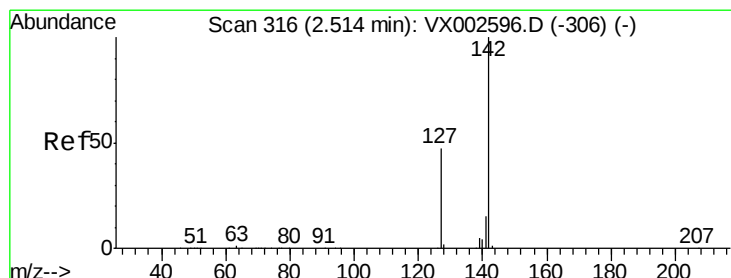
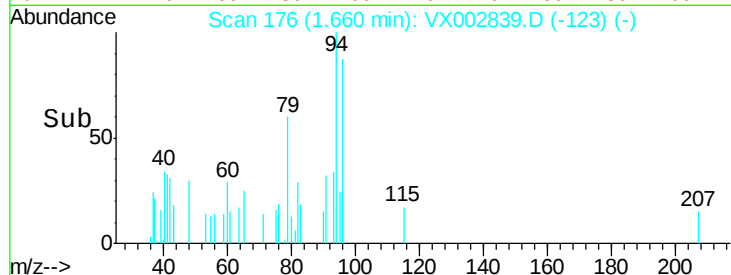
300

200

100

0

Time--> 1.60 1.65 1.70



#10

Methyl Iodide

Concen: 5.44 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

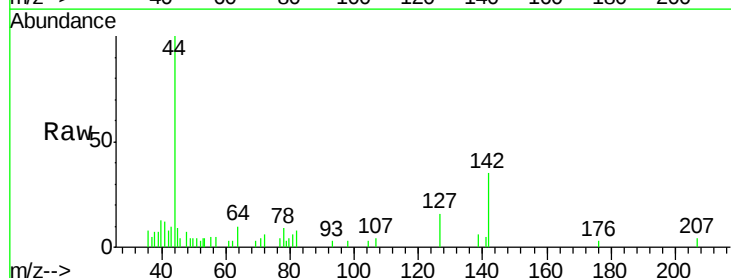
Tgt Ion: 142 Resp: 1145

Ion Ratio Lower Upper

142 100

127 53.1 36.6 55.0

141 6.2 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

800

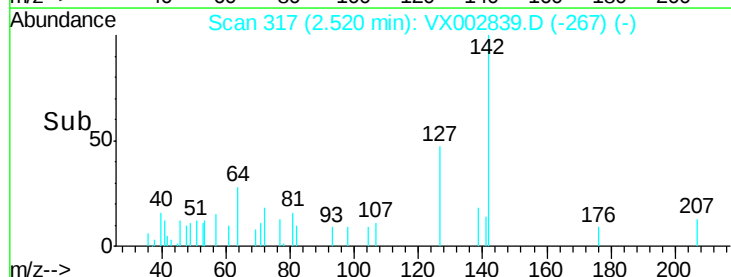
600

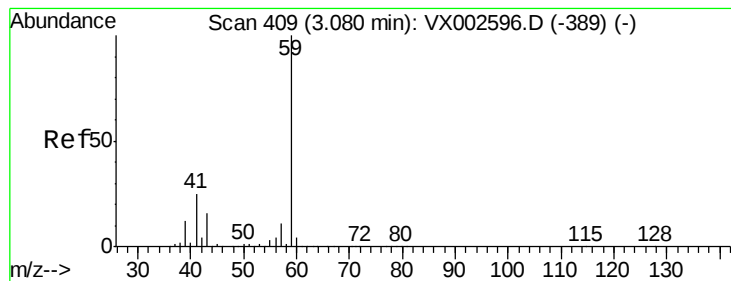
400

200

0

Time--> 2.45 2.50 2.55



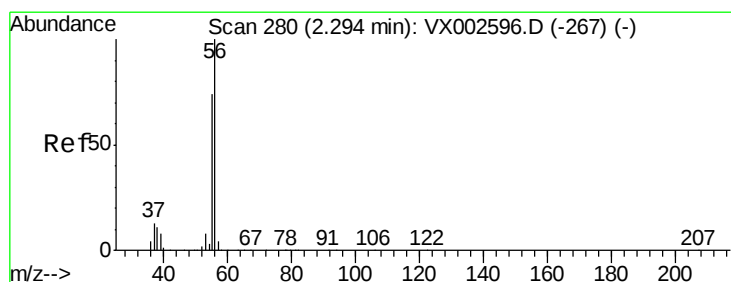
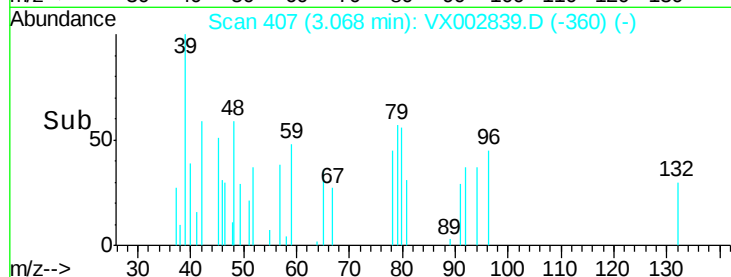
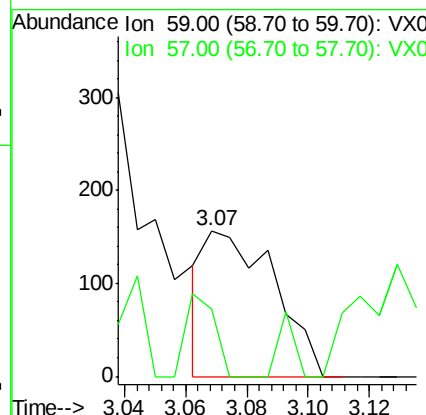
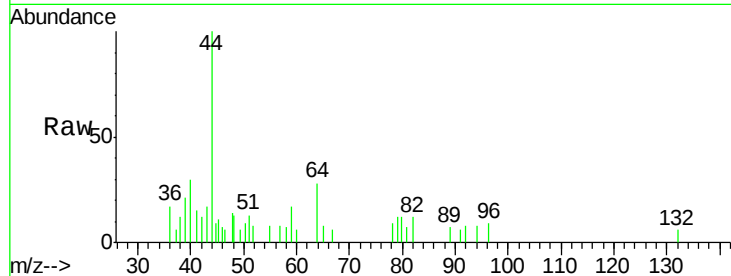


#11

Tert butvl alcohol
Concen: 0.32 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002839.D
Acq: 22 Jun 2018 19:06

Instrument :
MSVOA_X
ClientSampled :
S83-EB-2018-1

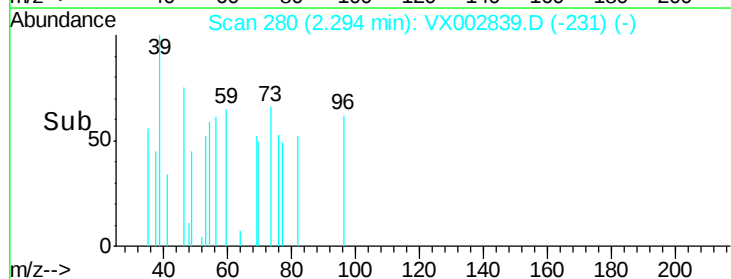
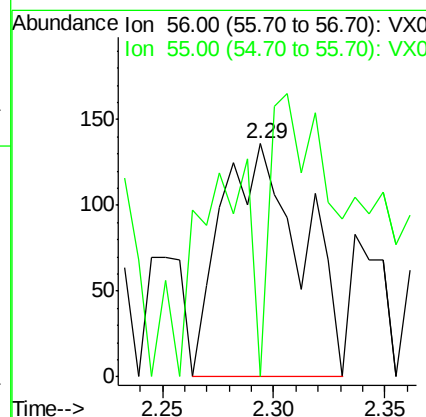
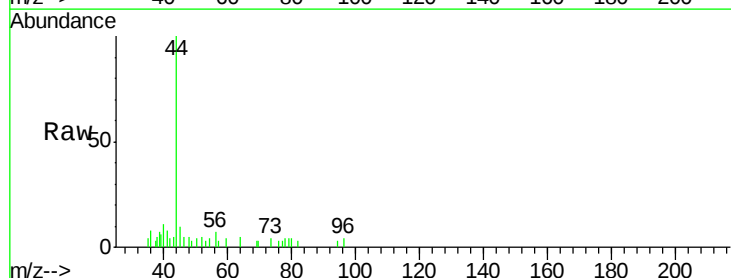
Tot Ion: 59 Resp: 247
Ion Ratio Lower Upper
59 100
57 23.9 8.2 12.2#

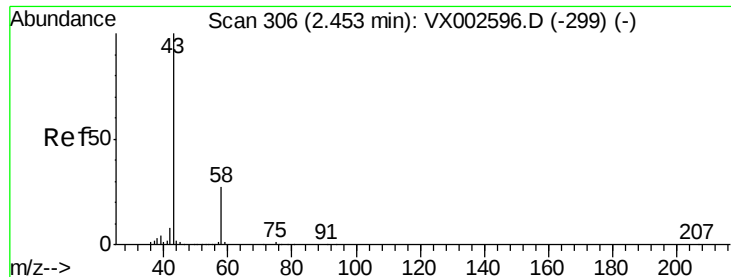


#13

Acrolein
Concen: 7.79 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX002839.D
Acq: 22 Jun 2018 19:06

Tgt Ion: 56 Resp: 343
Ion Ratio Lower Upper
56 100
55 62.1 57.0 85.4





#16

Acetone

Concen: 5.16 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampled :

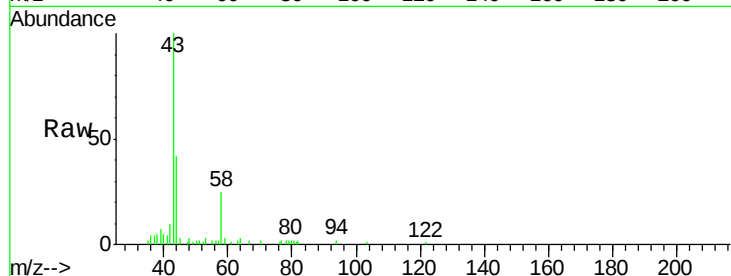
S83-EB-2018-1

Tot Ion: 43 Resp: 8444

Ion Ratio Lower Upper

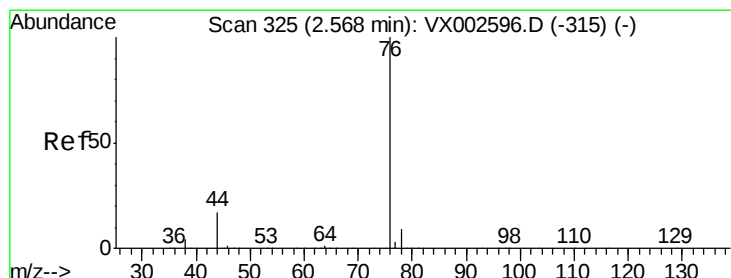
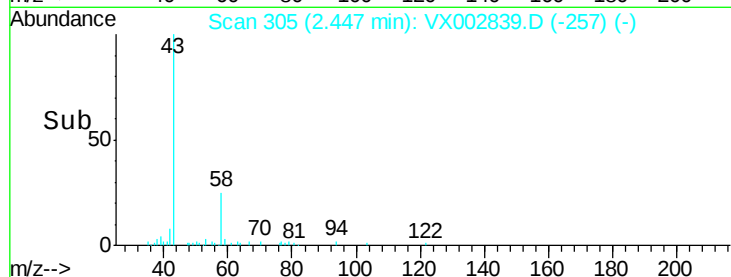
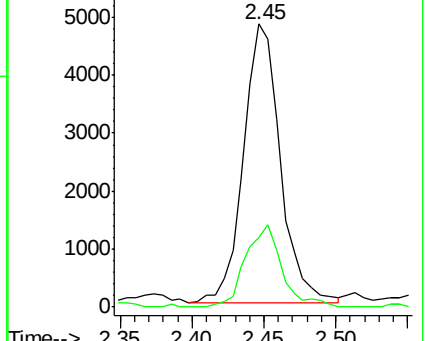
43 100

58 25.0 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: VX002839.D

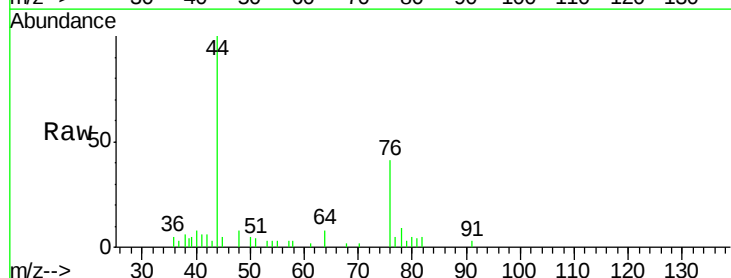
Acq: 22 Jun 2018 19:06

Tgt Ion: 76 Resp: 1504

Ion Ratio Lower Upper

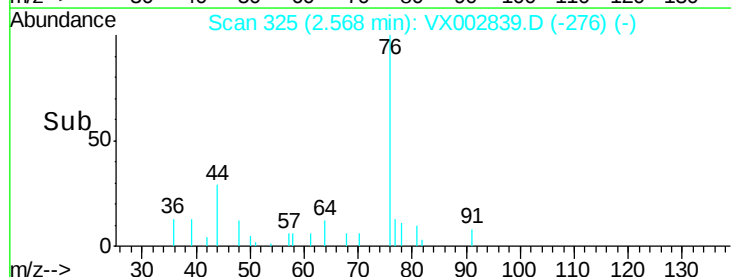
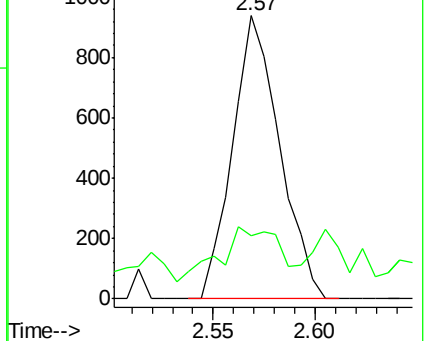
76 100

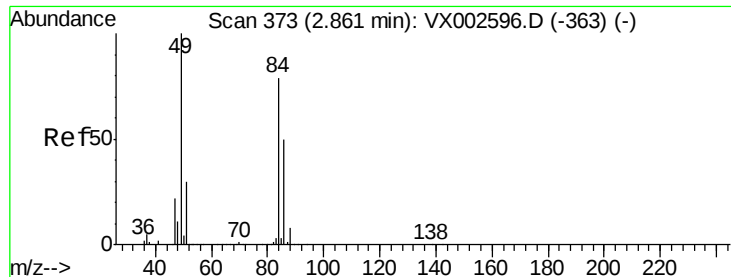
78 5.1 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 18.96 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampleId :

S83-EB-2018-1

Tot Ion: 84 Resp: 63556

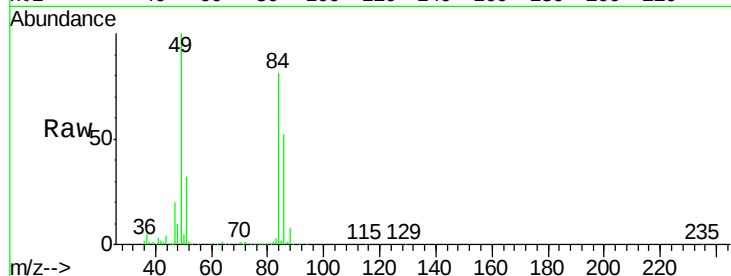
Ion	Ratio	Lower	Upper
84	100		
49	123.5	107.8	161.6
51	39.8	32.8	49.2
86	63.9	52.5	78.7

84 100

49 123.5 107.8 161.6

51 39.8 32.8 49.2

86 63.9 52.5 78.7

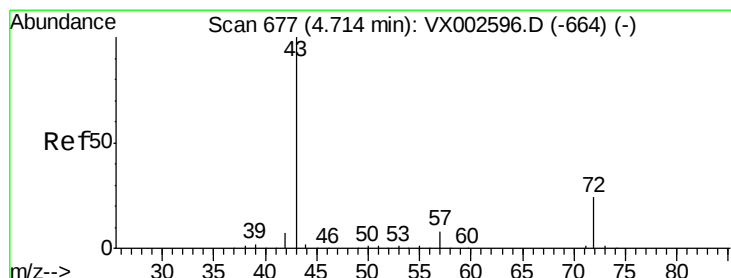
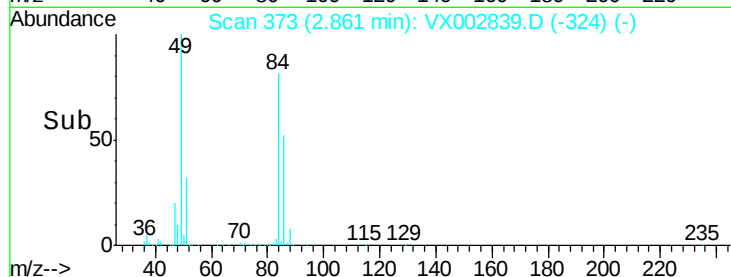
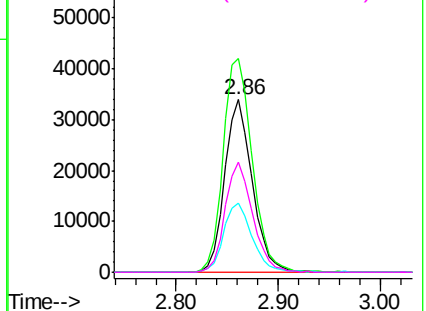


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 17.21 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002839.D

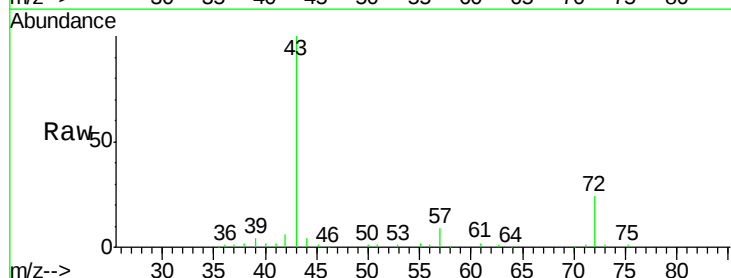
Acq: 22 Jun 2018 19:06

Tgt Ion: 43 Resp: 36966

Ion	Ratio	Lower	Upper
43	100		
72	24.5	18.5	27.7

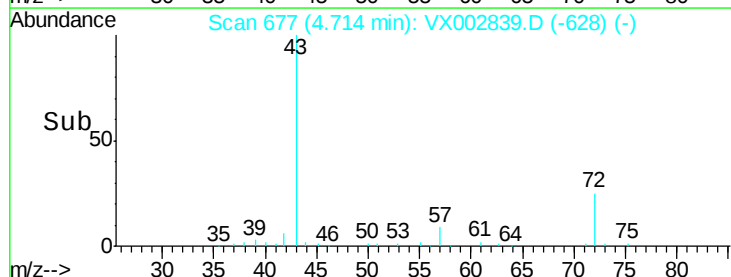
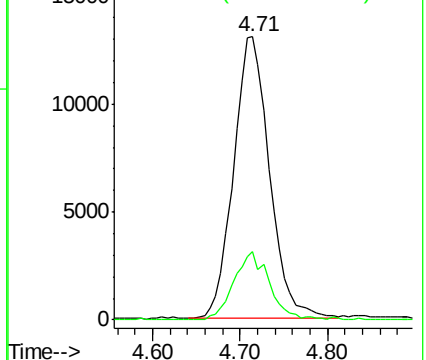
43 100

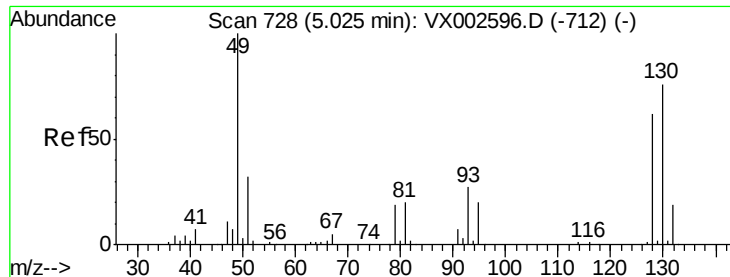
72 24.5 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: 0.74 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.14 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampleId :

S83-EB-2018-1

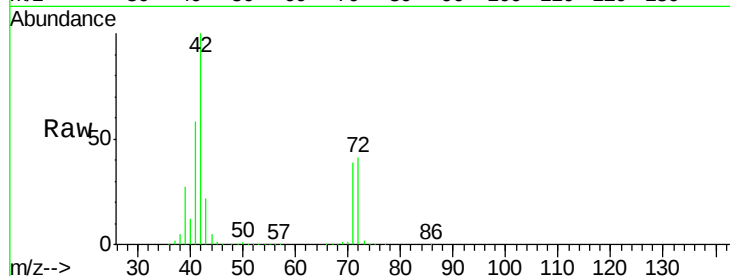
Tot Ion: 49 Resp: 1832

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

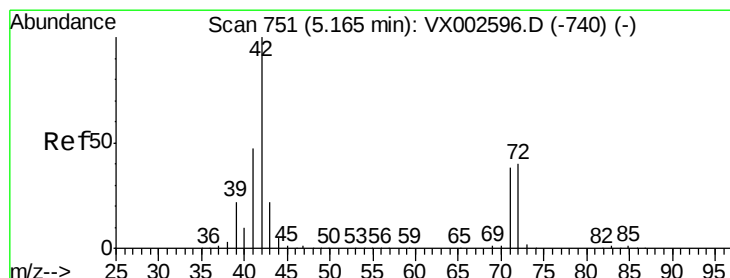
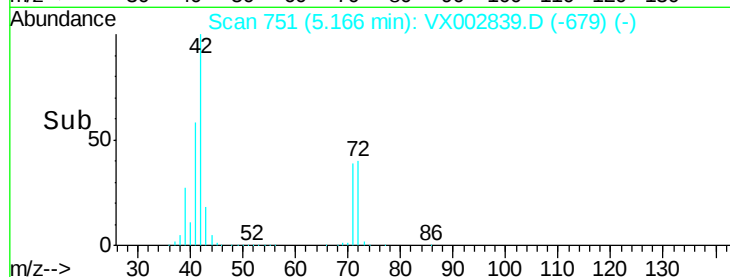
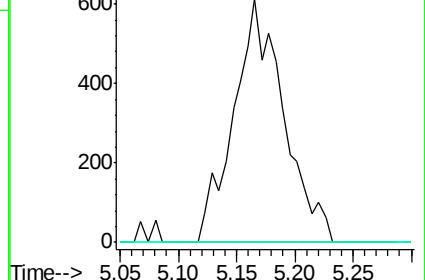
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 465.46 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.00 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

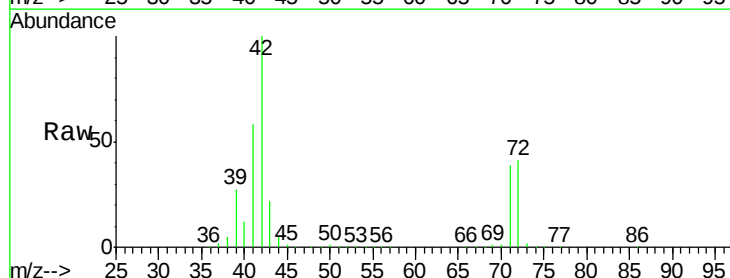
Tgt Ion: 42 Resp: 655104

Ion Ratio Lower Upper

42 100

72 40.8 32.0 48.0

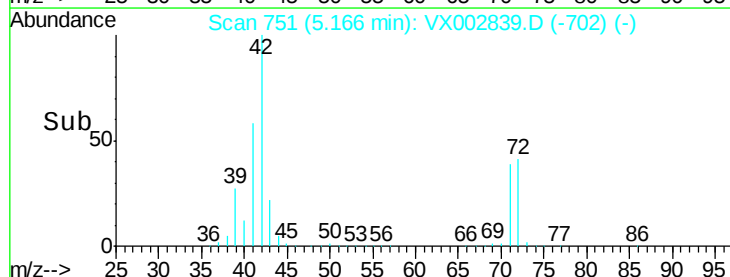
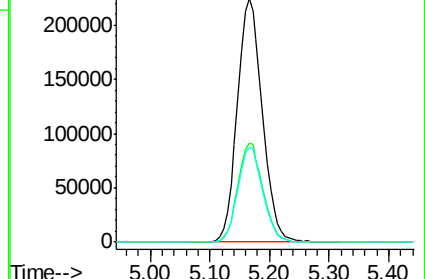
71 38.9 30.1 45.1

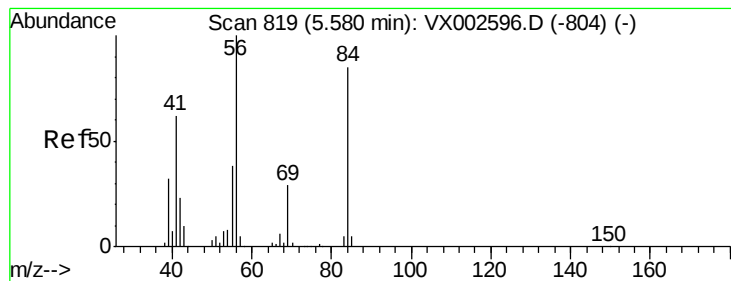


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.15 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampleId :

S83-EB-2018-1

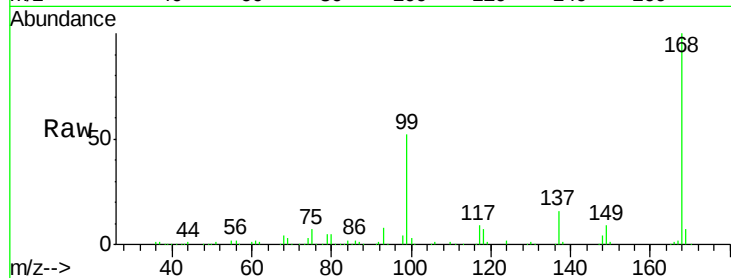
Tot Ion: 56 Resp: 5023

Ion Ratio Lower Upper

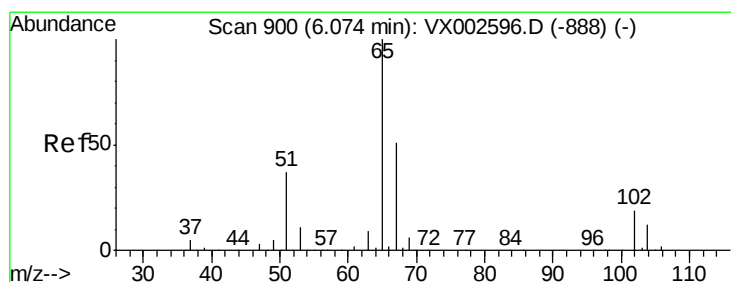
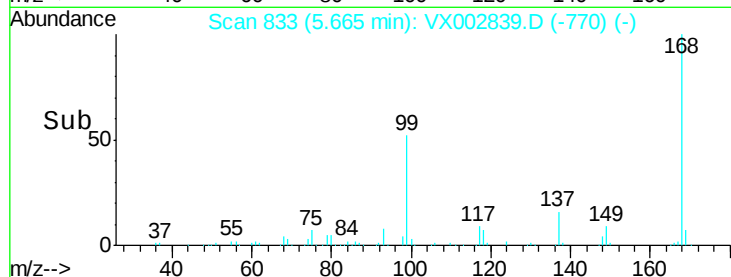
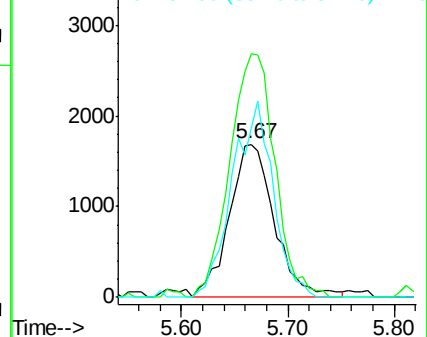
56 100

69 159.0 23.7 35.5#

84 110.6 64.1 96.1#



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: 44.63 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002839.D

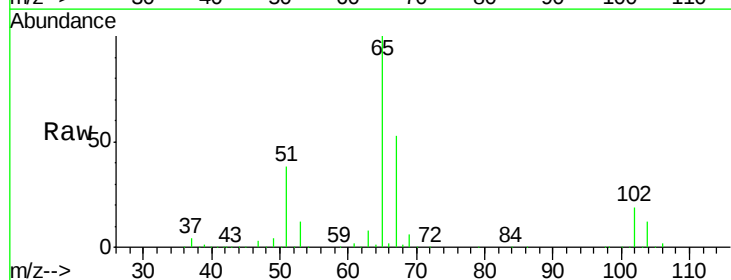
Acq: 22 Jun 2018 19:06

Tgt Ion: 65 Resp: 165422

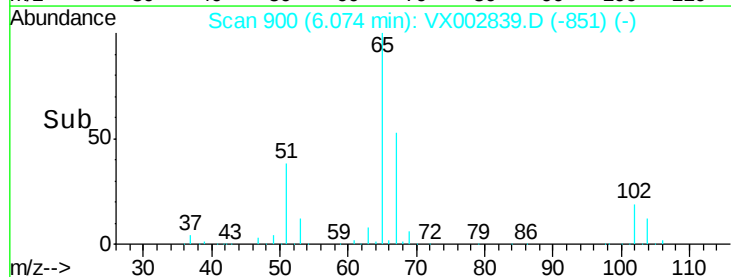
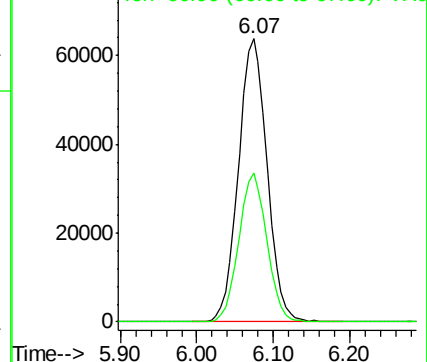
Ion Ratio Lower Upper

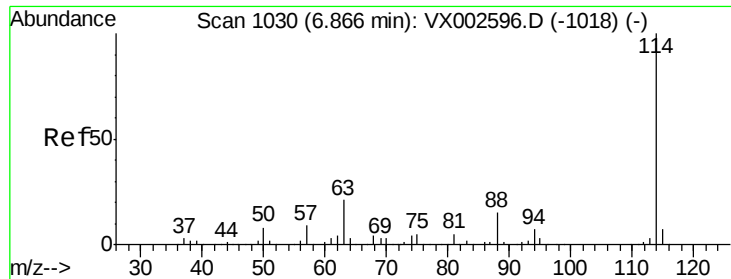
65 100

67 51.4 0.0 102.6



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

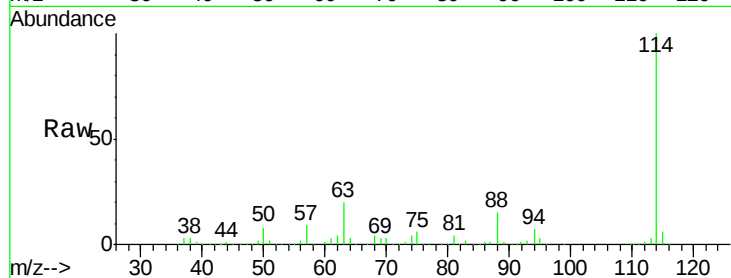




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002839.D
 Acq: 22 Jun 2018 19:06

Instrument :
 MSVOA_X
 ClientSampleId :
 S83-EB-2018-1

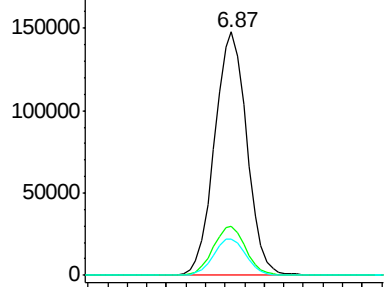
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	41.4
88	14.9	0.0	30.0



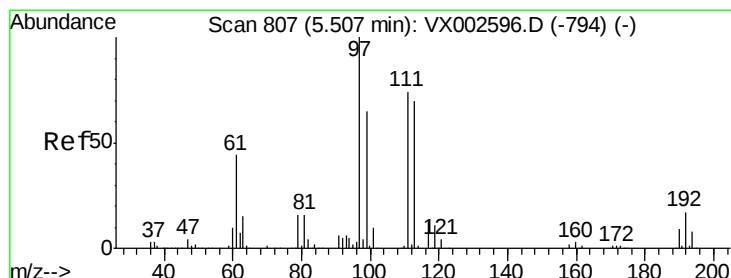
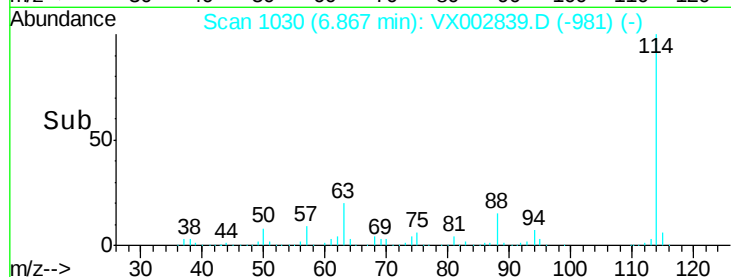
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

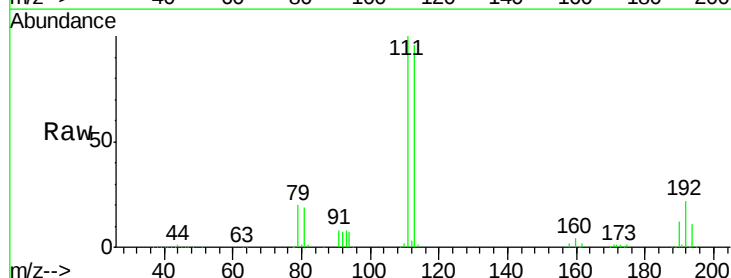


Time-->



#35
 Dibromofluoromethane
 Concen: 47.66 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002839.D
 Acq: 22 Jun 2018 19:06

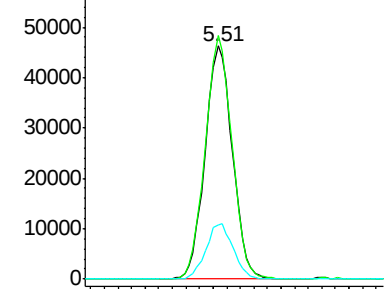
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.0
192	23.6	19.1	28.7



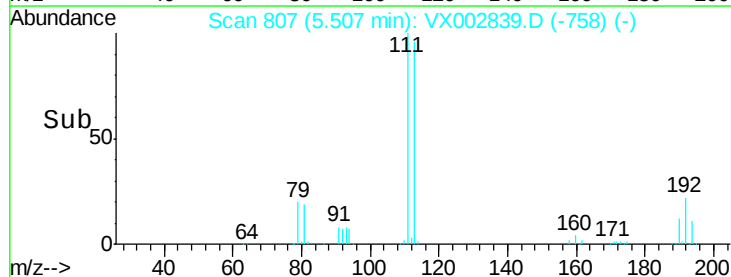
Abundance Ion 112.80 (112.50 to 113.50): V

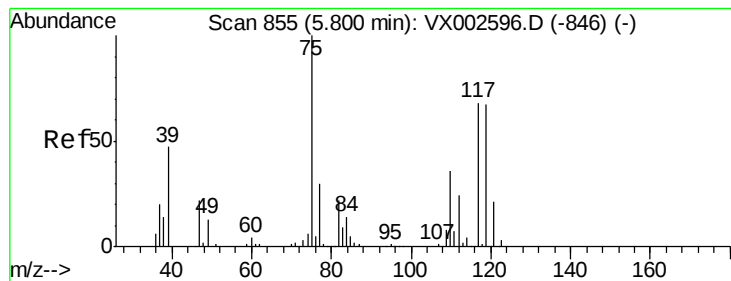
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time-->





#36

1,1-Dichloropropene

Concen: 4.70 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampleId :

S83-EB-2018-1

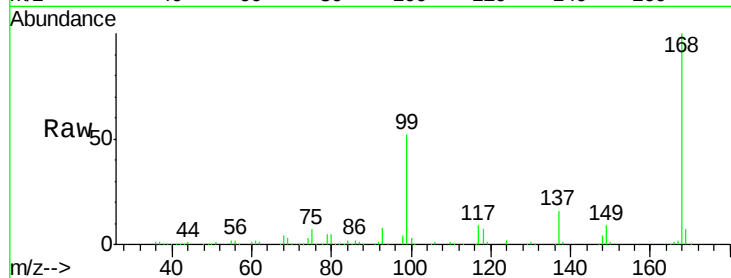
Tot Ion: 75 Resp: 16963

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.4#

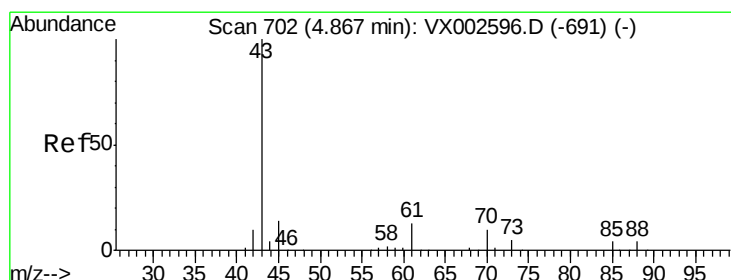
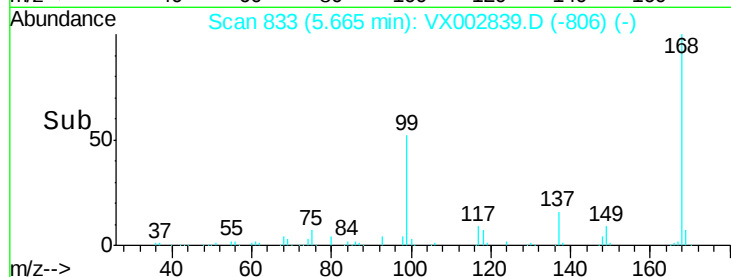
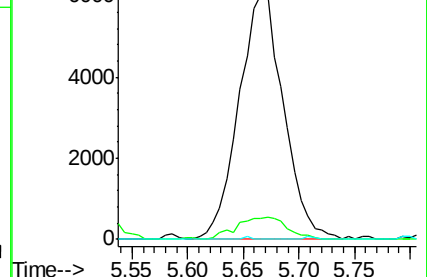
77 0.1 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 9.06 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.15 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

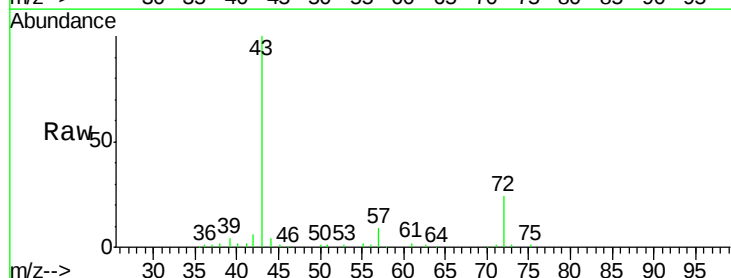
Tgt Ion: 43 Resp: 36966

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

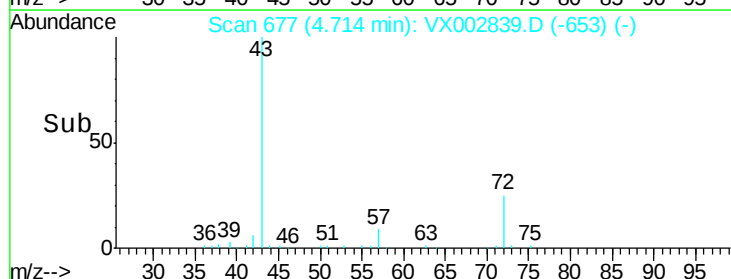
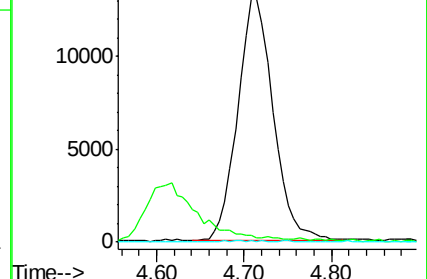
70 0.5 7.6 11.4#

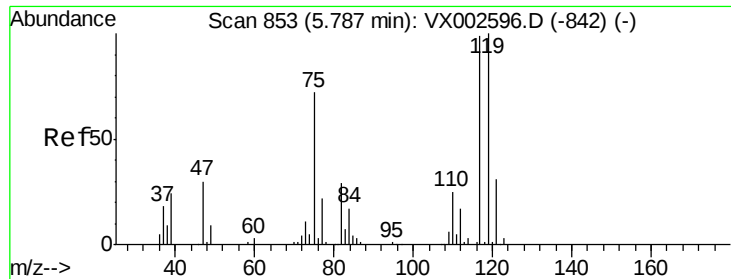


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.22 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampled :

S83-EB-2018-1

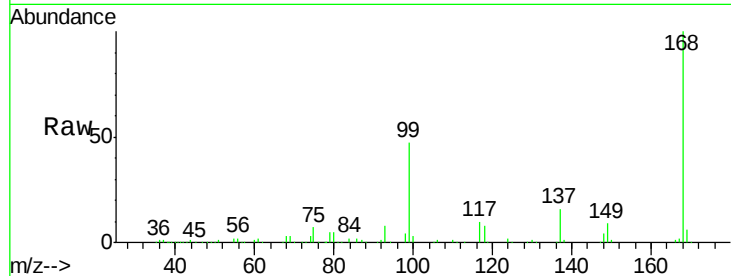
Tot Ion:117 Resp: 22336

Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

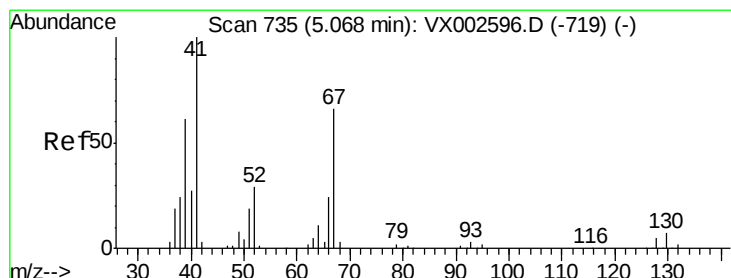
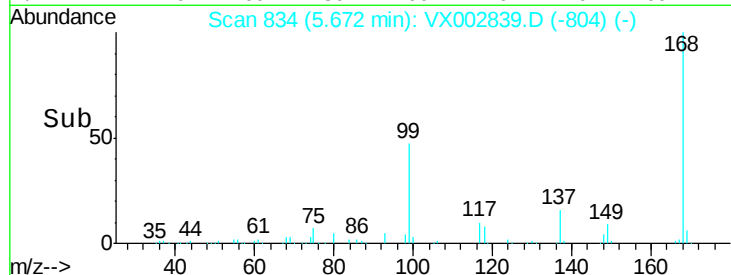
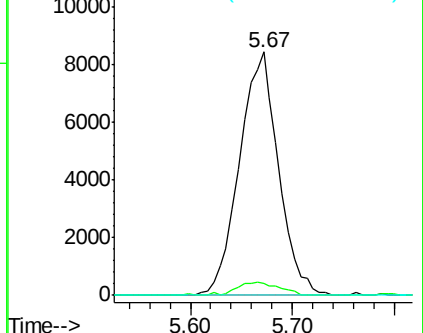
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 164.81 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.10 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Tgt Ion: 41 Resp: 379864

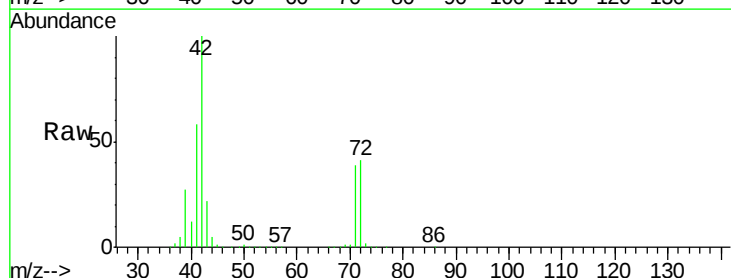
Ion Ratio Lower Upper

41 100

39 47.5 45.8 68.6

67 0.0 51.3 76.9#

52 0.2 23.0 34.6#

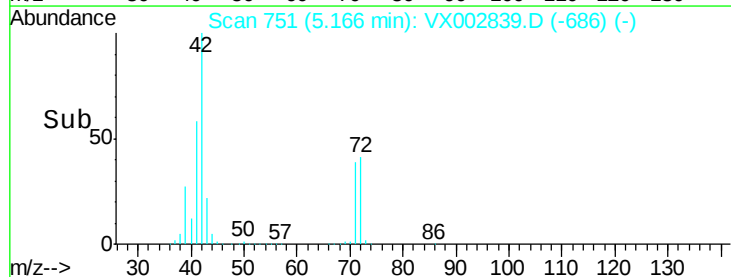
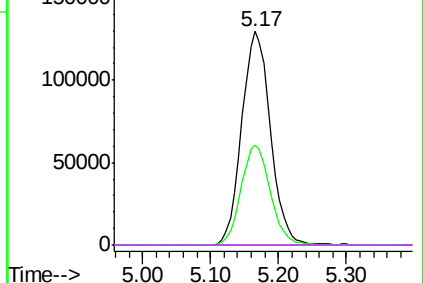


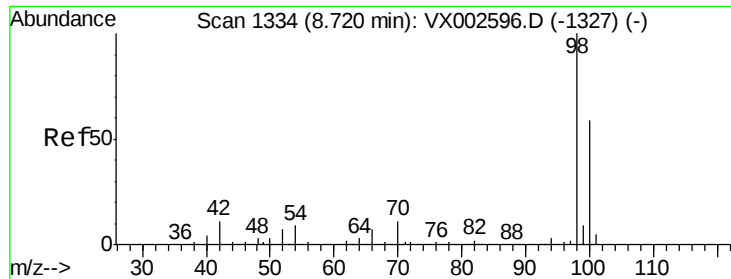
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

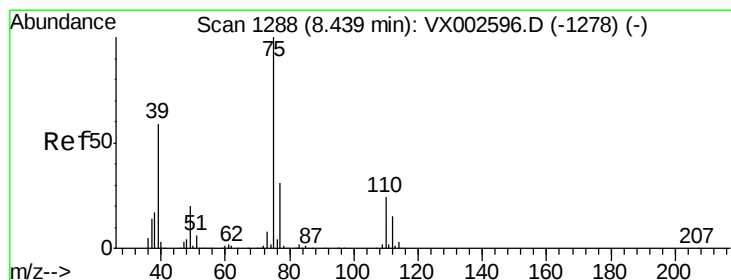
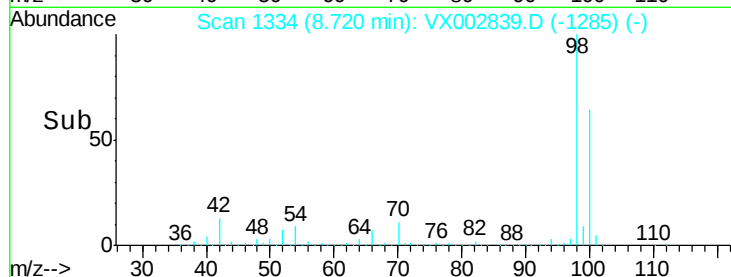
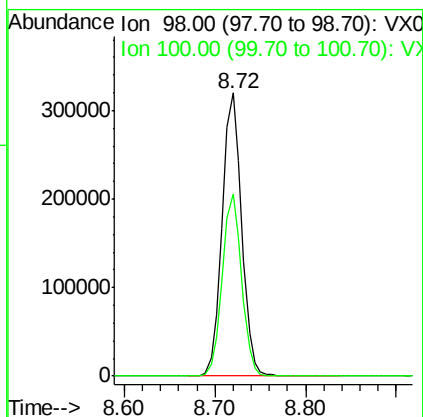
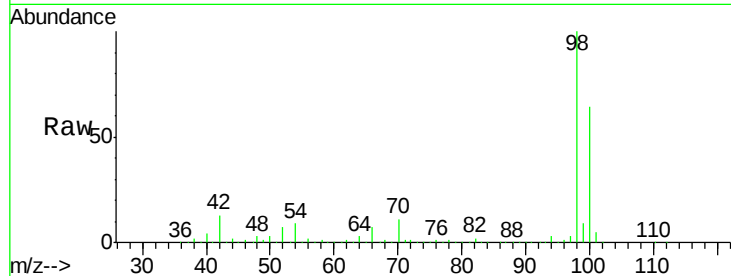




#50
Toluene-d8
Concen: 46.64 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002839.D
Acq: 22 Jun 2018 19:06

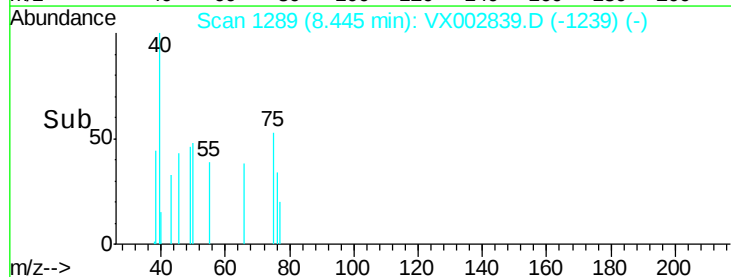
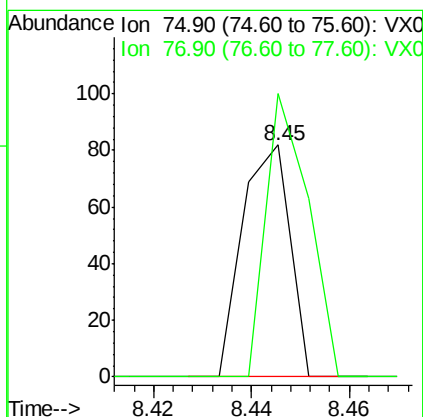
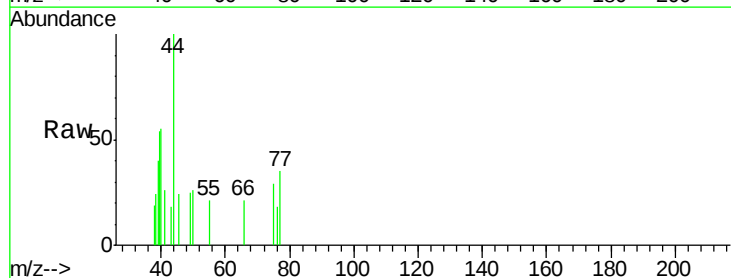
Instrument :
MSVOA_X
ClientSampleId :
S83-EB-2018-1

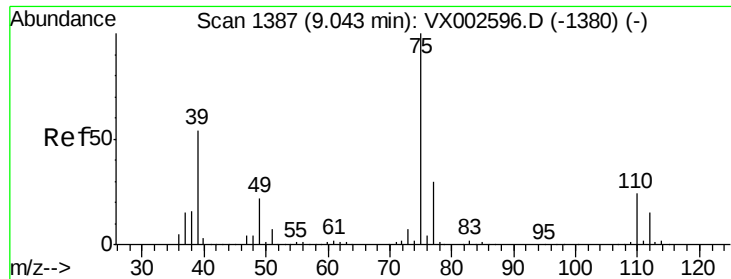
Tot Ion: 98 Resp: 479929
Ion Ratio Lower Upper
98 100
100 64.0 50.9 76.3



#53
t-1,3-Dichloropropene
Concen: 2.41 ug/l
RT: 8.45 min Scan# 1289
Delta R.T. 0.01 min
Lab File: VX002839.D
Acq: 22 Jun 2018 19:06

Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
77 122.0 25.4 38.2#





#54

cis-1,3-Dichloropropene

Concen: 3.24 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampleId :

S83-EB-2018-1

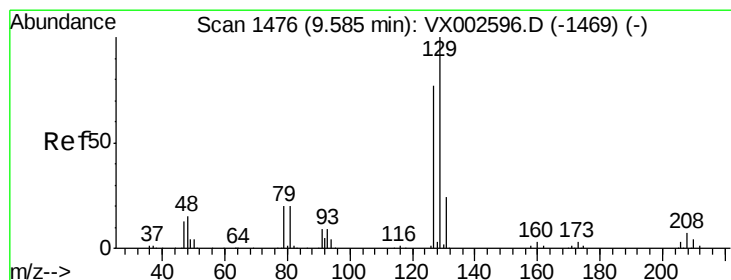
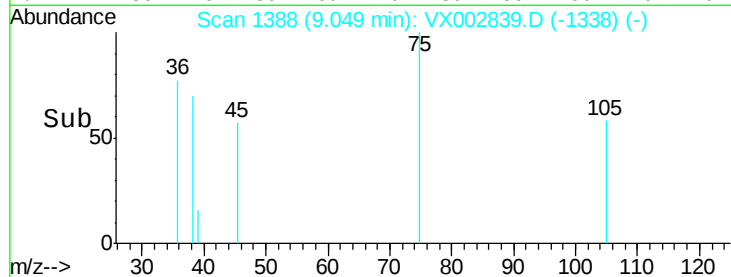
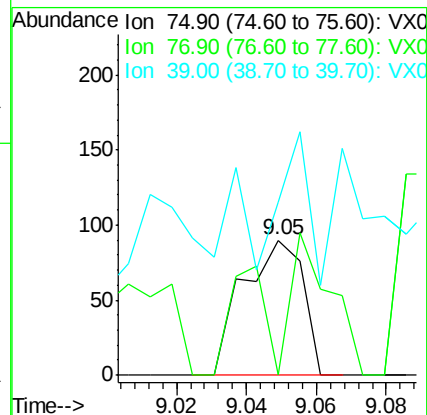
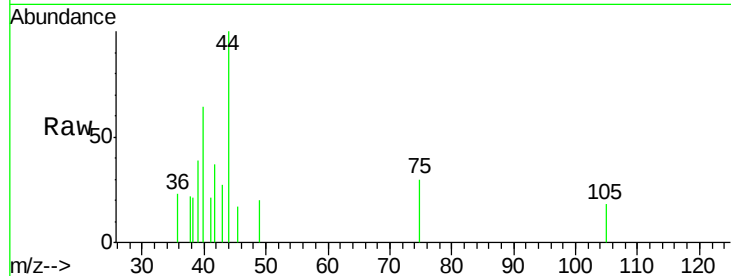
Tot Ion: 75 Resp: 107

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 26.7 42.4 63.6#



#60

Dibromochloromethane

Concen: 3.80 ug/l

RT: 9.59 min Scan# 1477

Delta R.T. 0.01 min

Lab File: VX002839.D

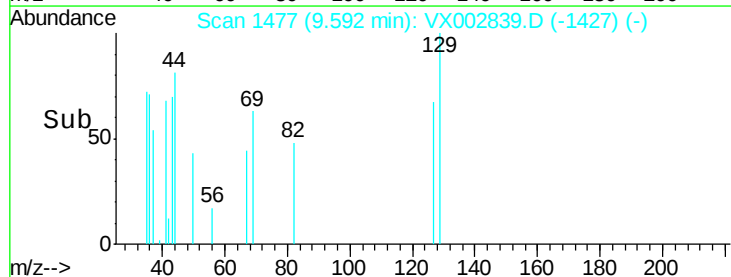
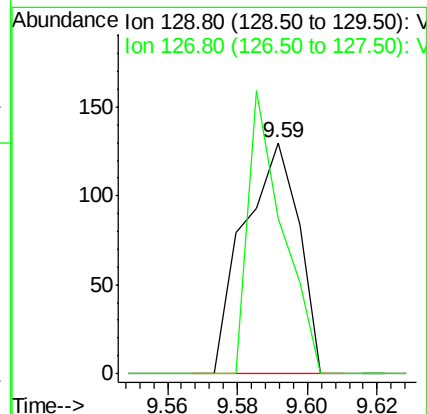
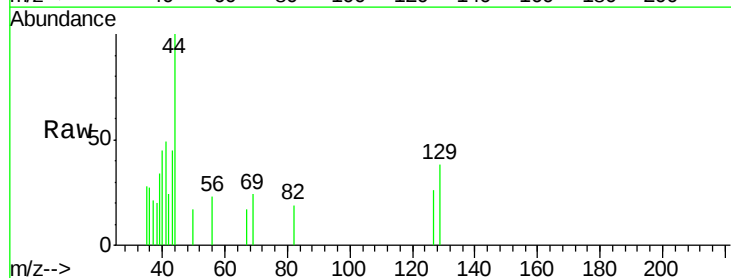
Acq: 22 Jun 2018 19:06

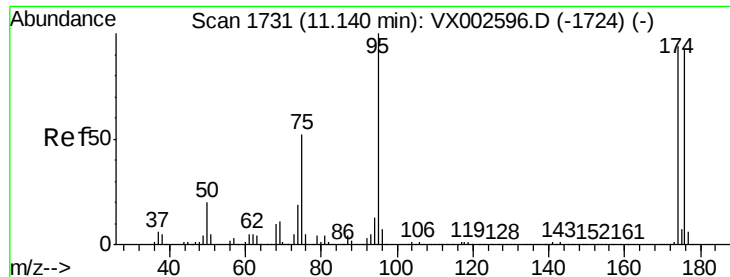
Tgt Ion: 129 Resp: 141

Ion Ratio Lower Upper

129 100

127 77.3 38.5 115.3





#62

4-Bromofluorobenzene

Concen: 43.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampleId :

S83-EB-2018-1

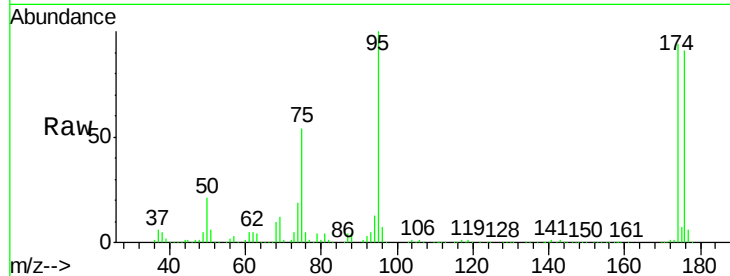
Tot Ion: 95 Resp: 167778

Ion Ratio Lower Upper

95 100

174 96.3 0.0 187.4

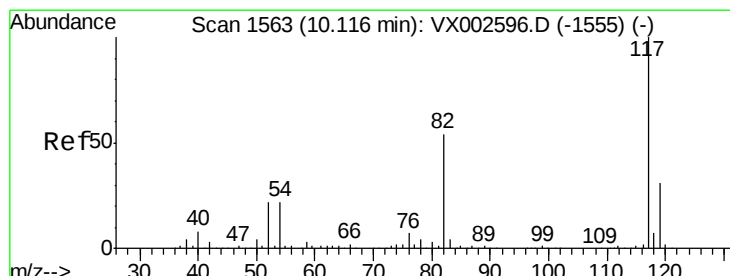
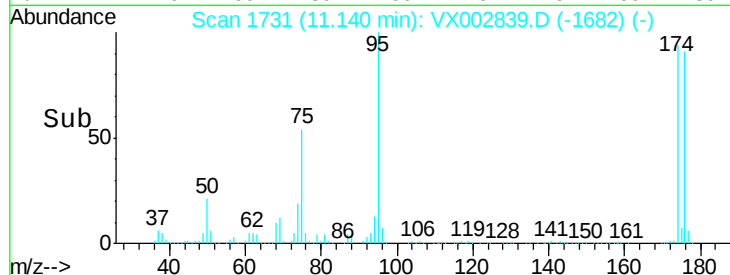
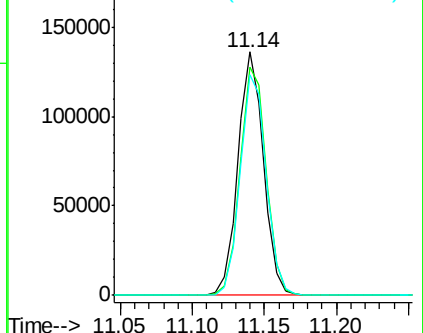
176 92.0 0.0 181.0



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



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

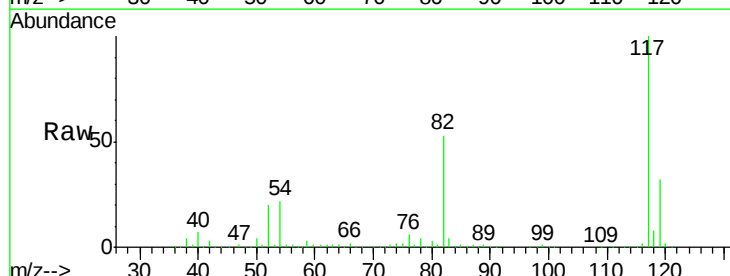
Tgt Ion: 117 Resp: 316089

Ion Ratio Lower Upper

117 100

82 53.0 45.0 67.4

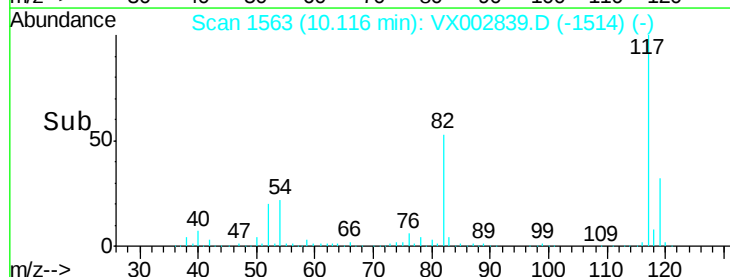
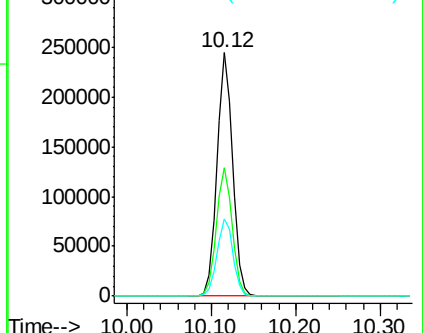
119 31.6 25.8 38.6

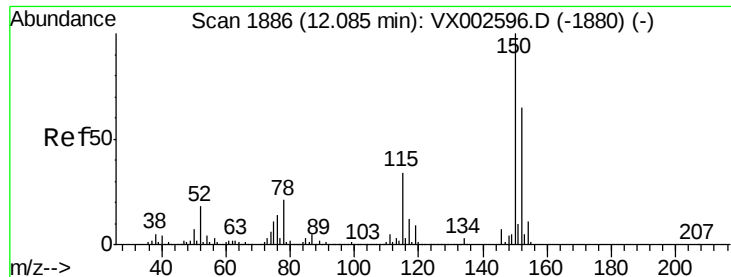


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampleId :

S83-EB-2018-1

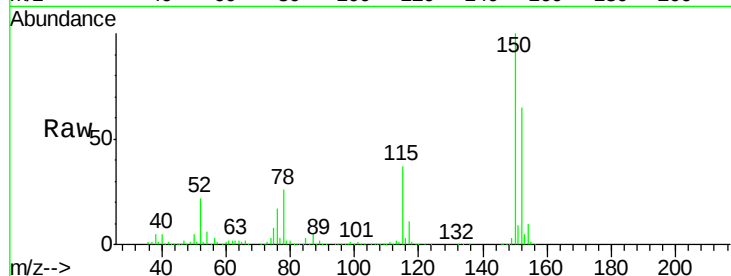
Tot Ion:152 Resp: 174670

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

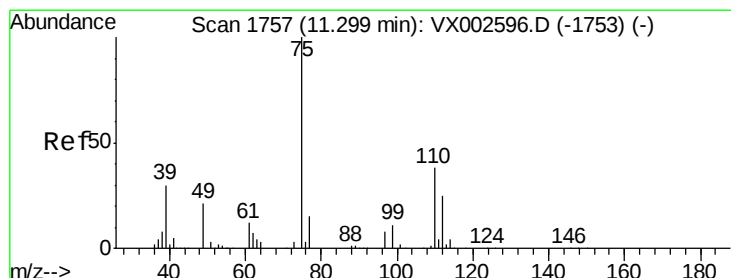
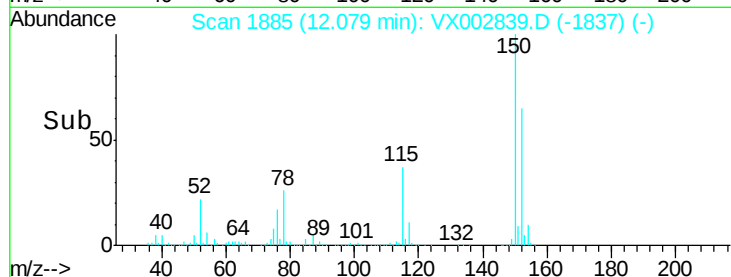
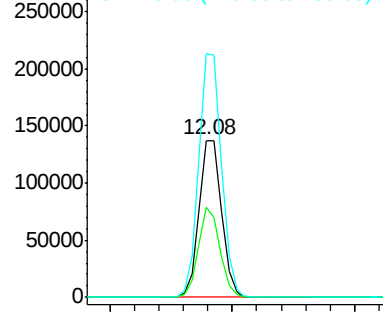
150 156.2 0.0 347.2



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: 27.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002839.D

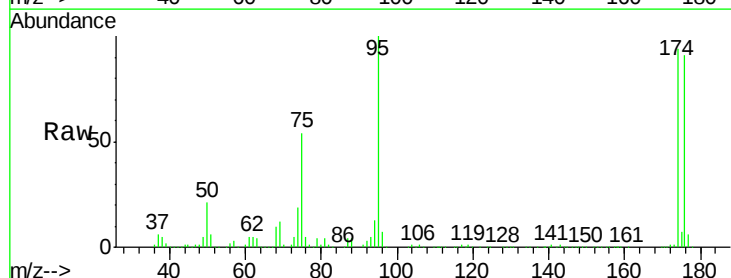
Acq: 22 Jun 2018 19:06

Tgt Ion: 75 Resp: 89797

Ion Ratio Lower Upper

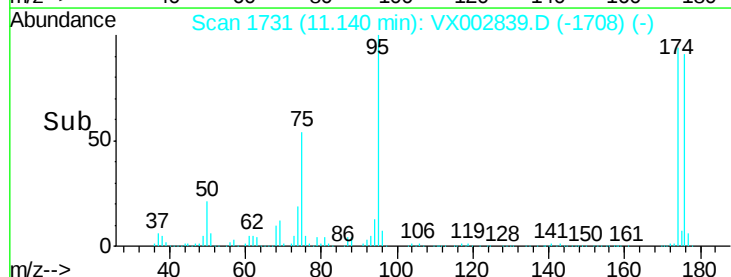
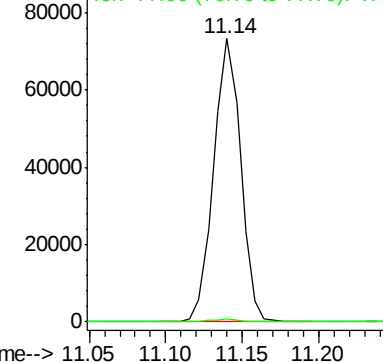
75 100

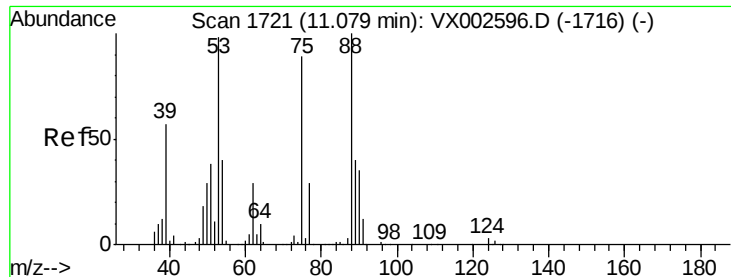
77 1.1 22.8 68.3#



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: 84.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002839.D

Acq: 22 Jun 2018 19:06

Instrument :

MSVOA_X

ClientSampleId :

S83-EB-2018-1

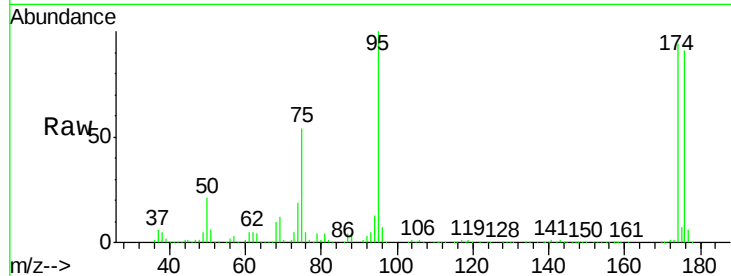
Tot Ion: 75 Resp: 89797

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

