

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031919\
 Data File : VX008219.D
 Acq On : 20 Mar 2019 04:02
 Operator : JC/SP
 Sample : K1900-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-DUP02-20190313

Quant Time: Mar 20 08:39:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 06:51:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	316631	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	521261	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	429565	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	165812	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	223833	46.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.88%	
35) Dibromofluoromethane	5.50	113	165256	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	
50) Toluene-d8	8.71	98	632667	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
62) 4-Bromofluorobenzene	11.13	95	194312	42.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.32%	

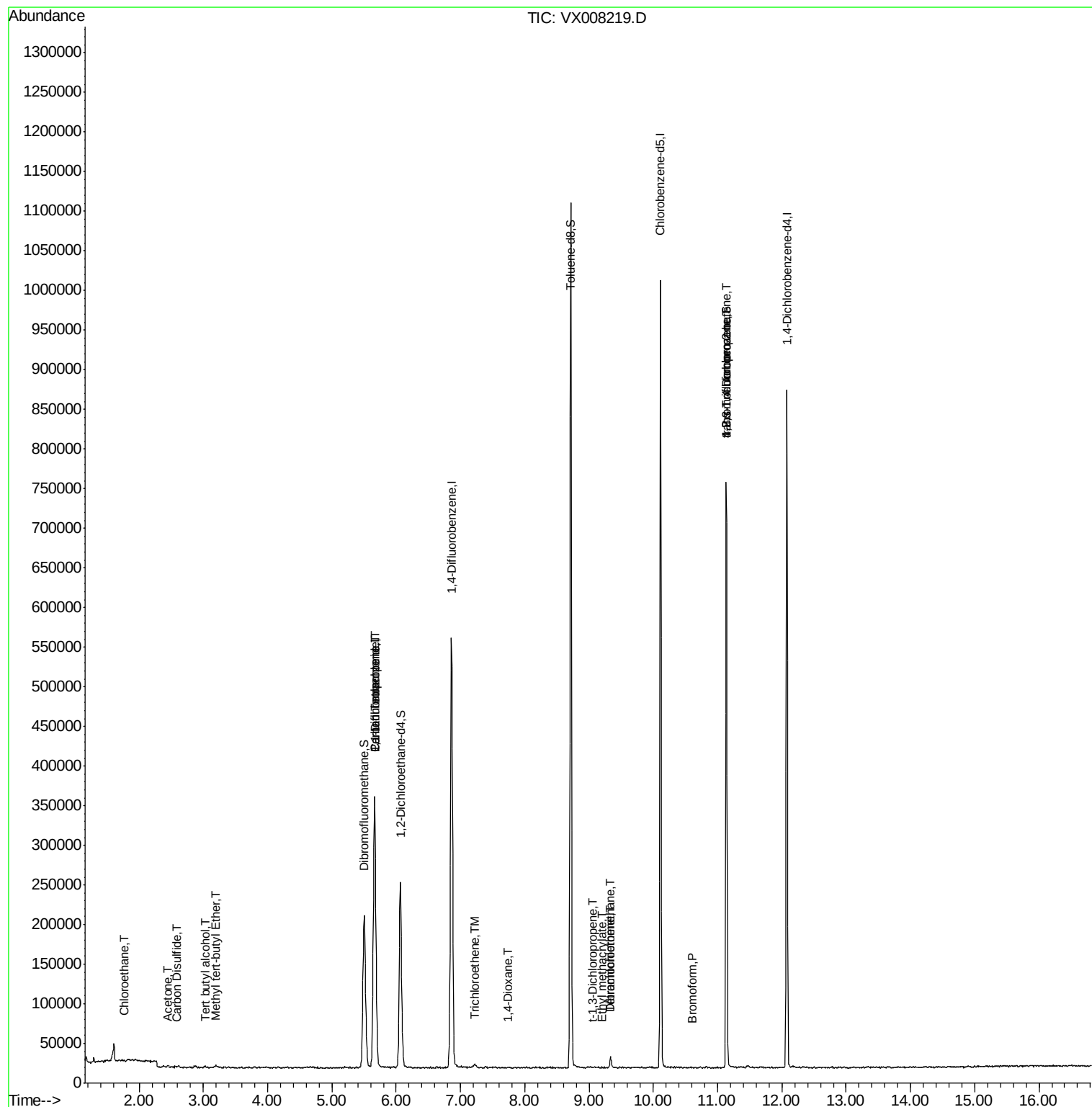
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.76	64	3390	1.126	ug/l #	83
11) Tert butyl alcohol	3.02	59	948	0.929	ug/l #	1
13) Acrolein	2.30	56	305	Below Cal	#	45
16) Acetone	2.45	43	1499	0.554	ug/l	99
17) Carbon Disulfide	2.58	76	847	0.742	ug/l #	90
19) Methyl tert-butyl Ether	3.20	73	3299	0.237	ug/l #	86
36) 1,1-Dichloropropene	5.66	75	25122	4.139	ug/l #	50
38) Carbon Tetrachloride	5.67	117	30622	5.663	ug/l #	17
44) Trichloroethene	7.21	130	1690	0.385	ug/l	84
49) 1,4-Dioxane	7.75	88	135	1.251	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	164	1.444	ug/l #	1
56) Ethyl methacrylate	9.19	69	350	0.572	ug/l #	62
60) Dibromochloromethane	9.34	129	2892	0.699	ug/l #	11
64) Tetrachloroethene	9.34	164	2765	0.713	ug/l #	84
71) Bromoform	10.60	173	62	2.221	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	101620	21.790	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	101620	55.389	ug/l #	12

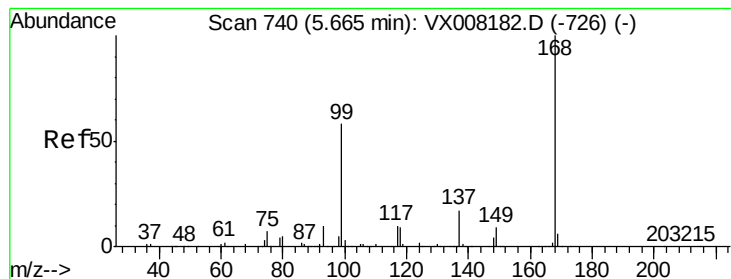
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

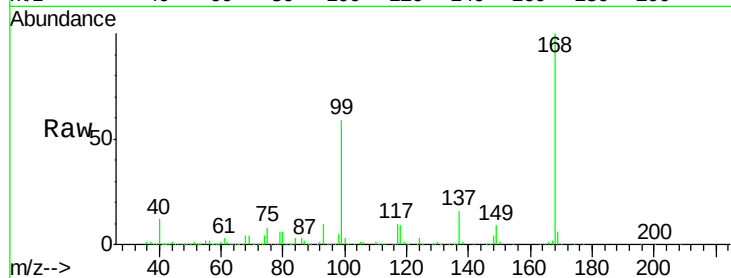
BP-DUP02-20190313

Tot Ion:168 Resp: 316631

Ion Ratio Lower Upper

168 100

99 59.1 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

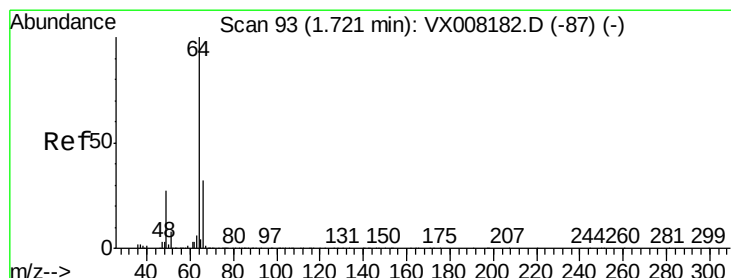
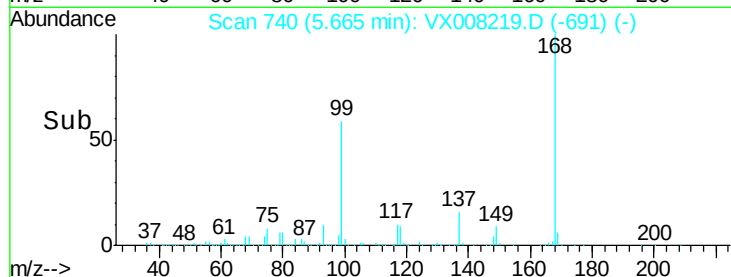
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 1.126 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.04 min

Lab File: VX008219.D

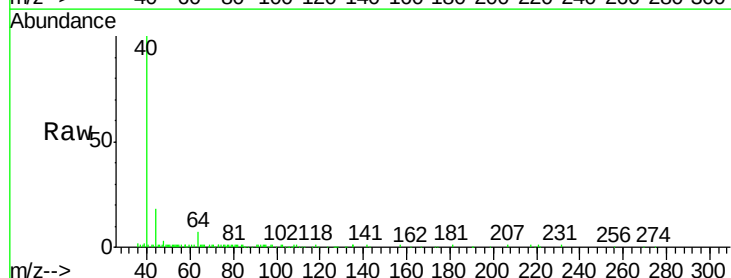
Acq: 20 Mar 2019 04:02

Tgt Ion: 64 Resp: 3390

Ion Ratio Lower Upper

64 100

66 22.4 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

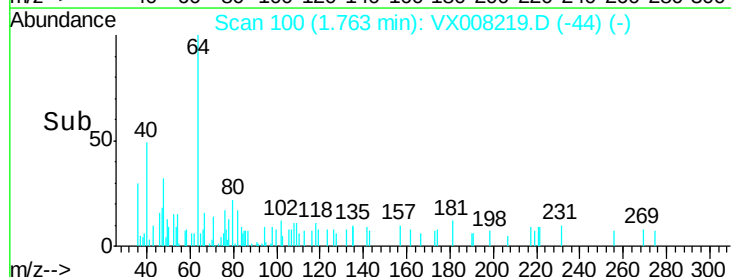
1500

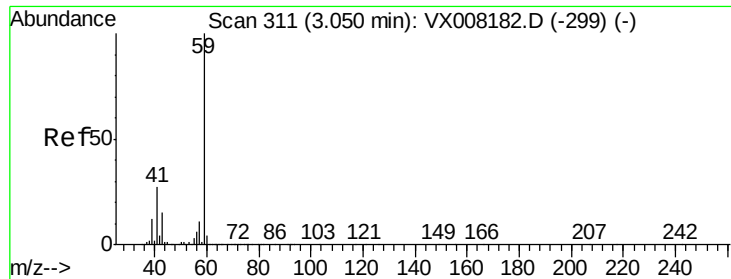
1000

500

0

Time--> 1.60 1.70 1.80

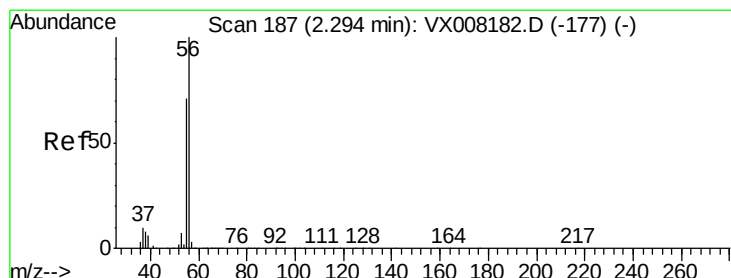
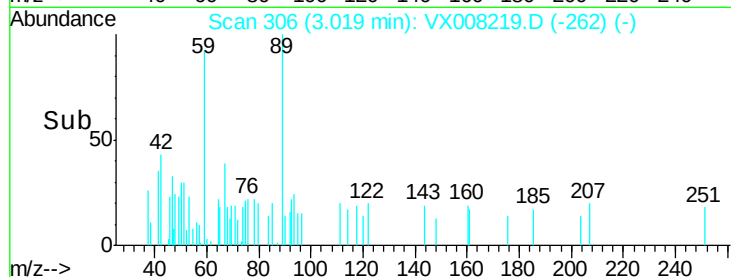
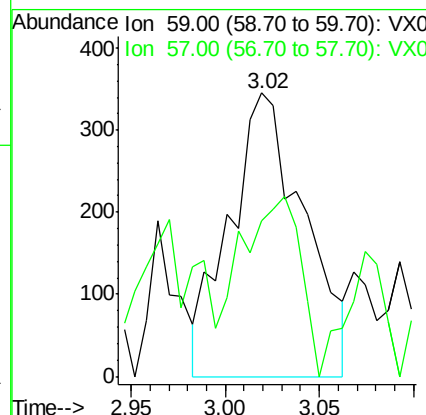
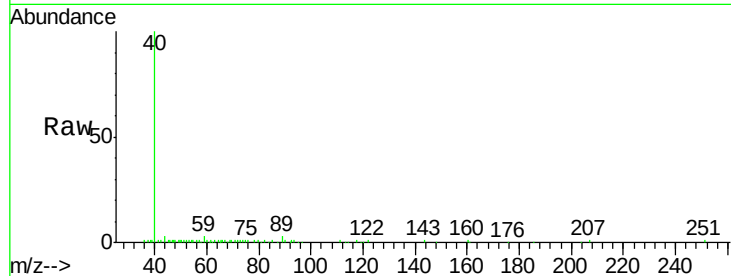




#11
Tert butyl alcohol
Concen: 0.929 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008219.D
Acq: 20 Mar 2019 04:02

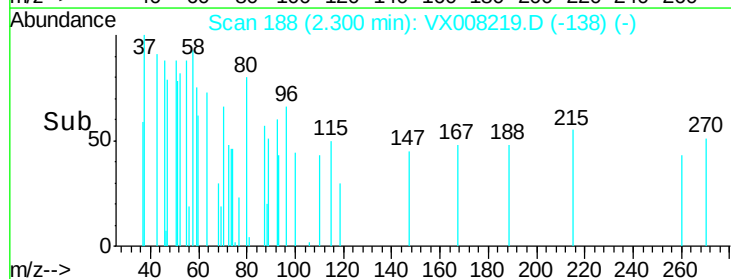
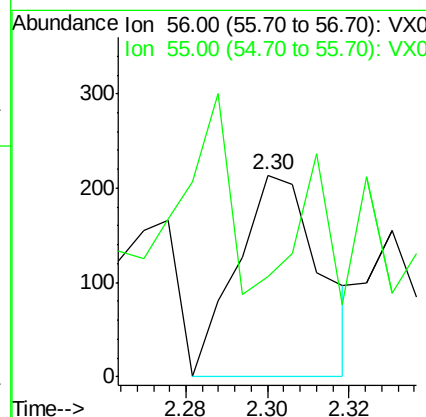
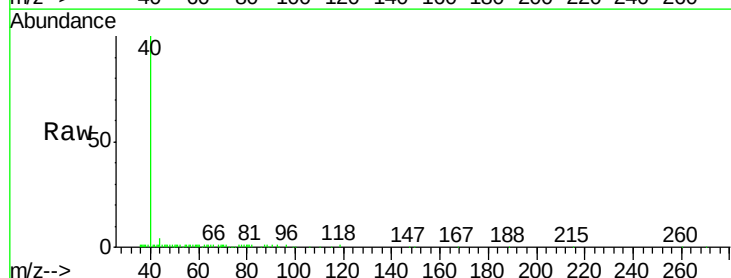
Instrument :
MSVOA_X
ClientSampleId :
BP-DUP02-20190313

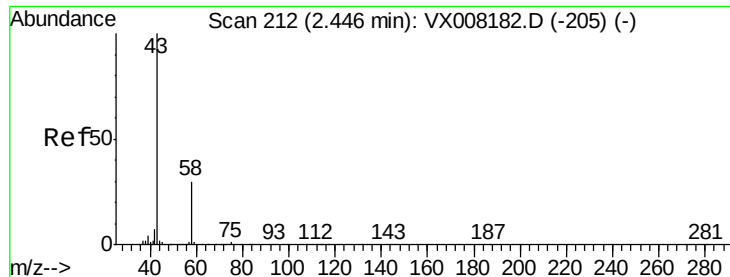
Tot Ion: 59 Resp: 948
Ion Ratio Lower Upper
59 100
57 50.5 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX008219.D
Acq: 20 Mar 2019 04:02

Tgt Ion: 56 Resp: 305
Ion Ratio Lower Upper
56 100
55 25.9 57.8 86.6#





#16

Acetone

Concen: 0.554 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

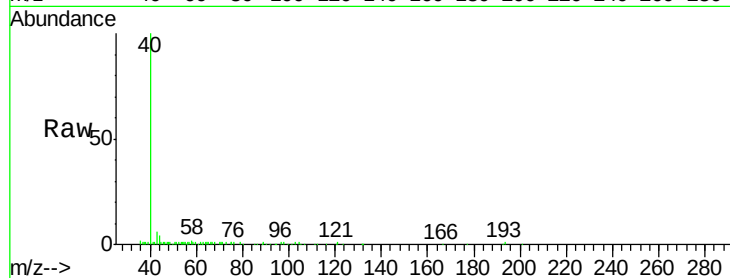
BP-DUP02-20190313

Tot Ion: 43 Resp: 1499

Ion Ratio Lower Upper

43 100

58 31.5 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

800

600

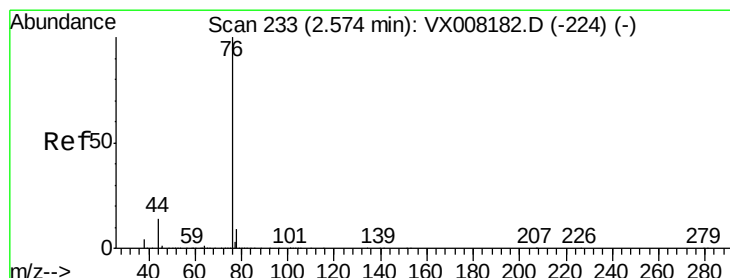
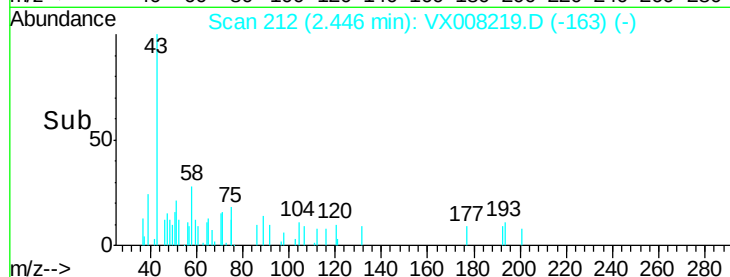
400

200

0

Time-->

2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.742 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX008219.D

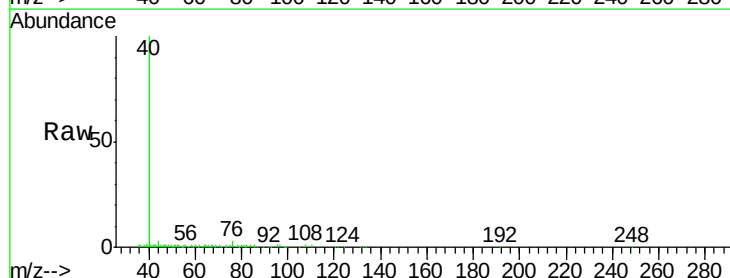
Acq: 20 Mar 2019 04:02

Tgt Ion: 76 Resp: 847

Ion Ratio Lower Upper

76 100

78 5.3 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.58

500

400

300

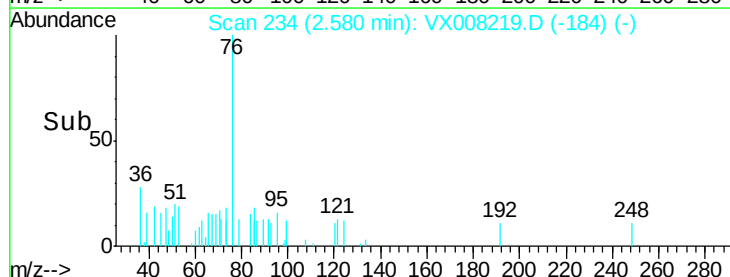
200

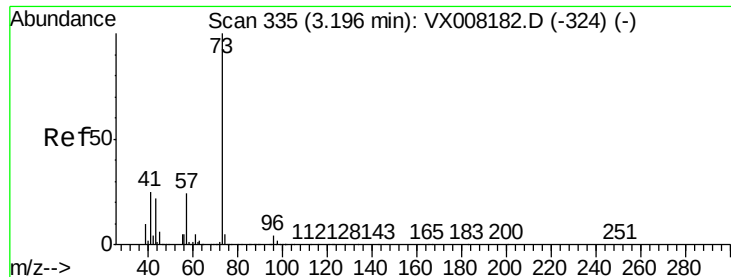
100

0

Time-->

2.55 2.60





#19

Methyl tert-butyl Ether

Concen: 0.237 ug/l

RT: 3.20 min Scan# 335

Delta R.T. 0.00 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

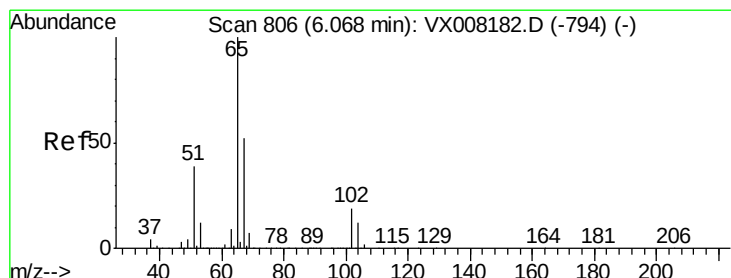
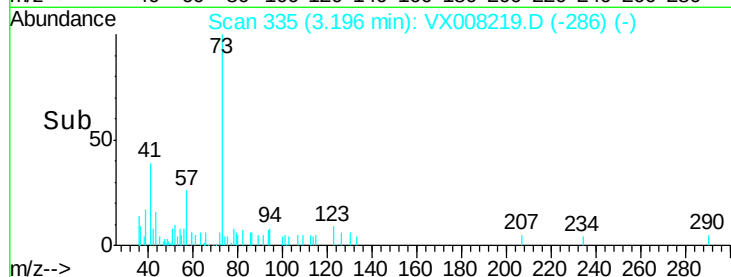
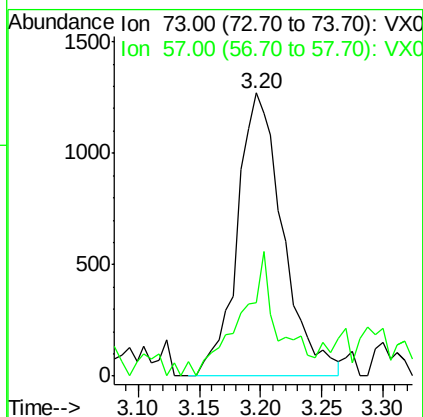
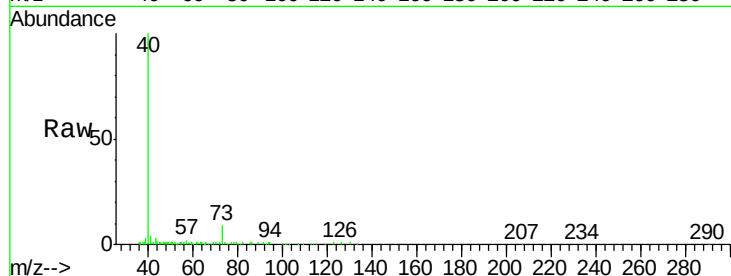
BP-DUP02-20190313

Tot Ion: 73 Resp: 3299

Ion Ratio Lower Upper

73 100

57 16.1 18.2 27.4#



#33

1,2-Dichloroethane-d4

Concen: 46.937 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008219.D

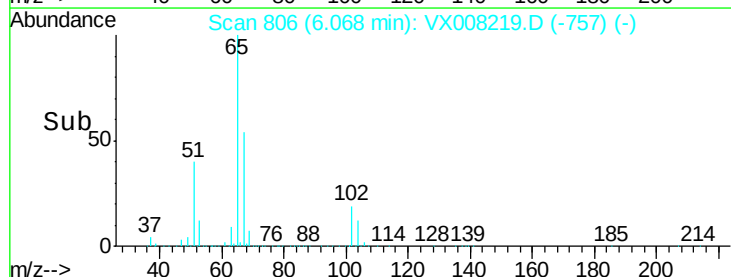
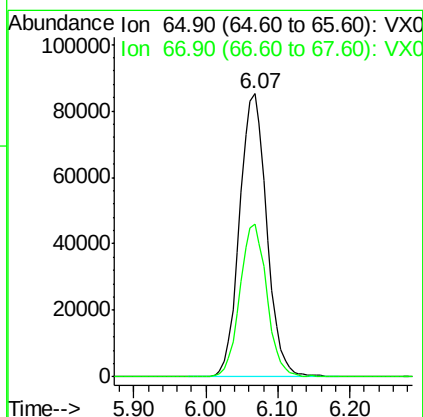
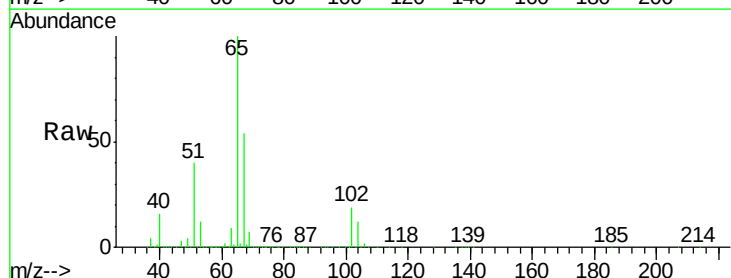
Acq: 20 Mar 2019 04:02

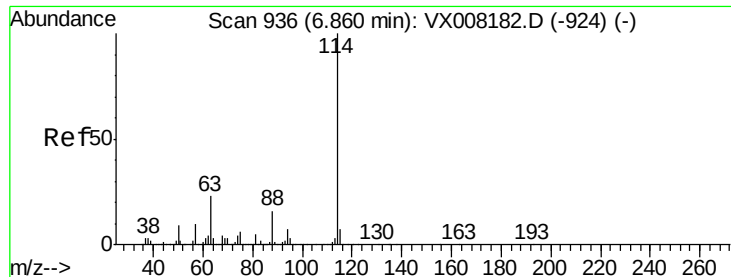
Tgt Ion: 65 Resp: 223833

Ion Ratio Lower Upper

65 100

67 53.0 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

BP-DUP02-20190313

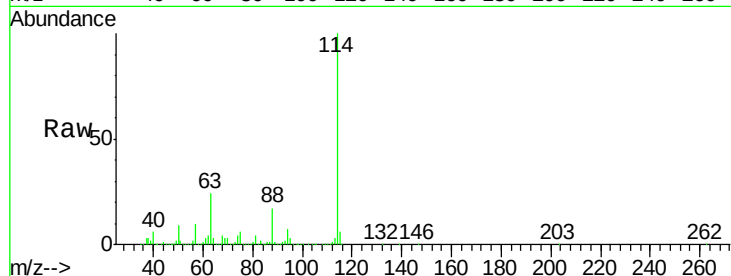
Tot Ion:114 Resp: 521261

Ion Ratio Lower Upper

114 100

63 23.7 0.0 39.8

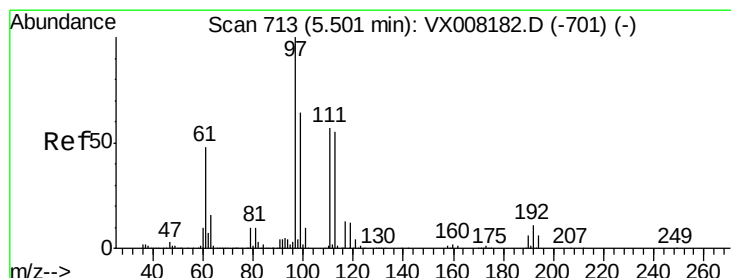
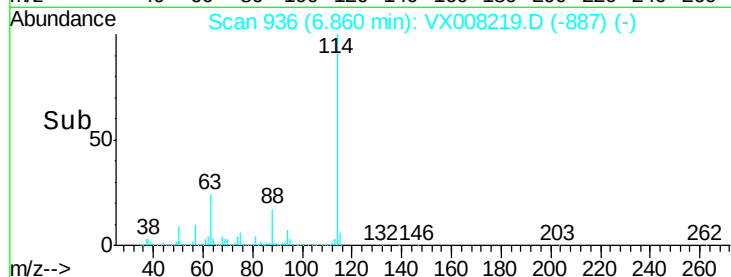
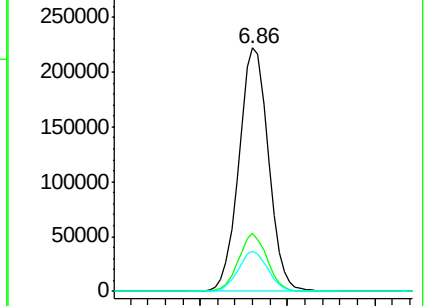
88 16.7 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.358 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

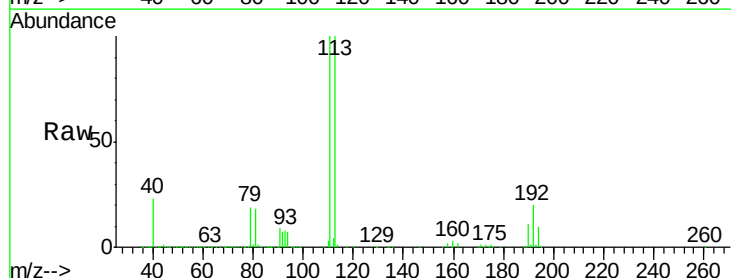
Tgt Ion:113 Resp: 165256

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

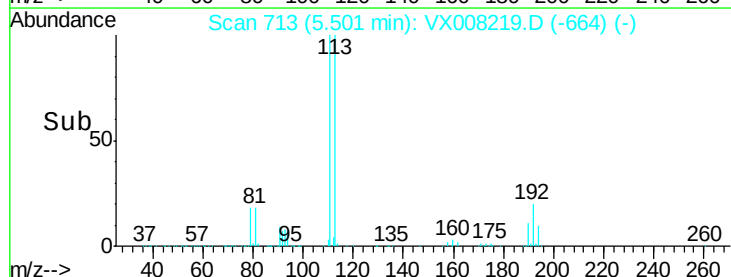
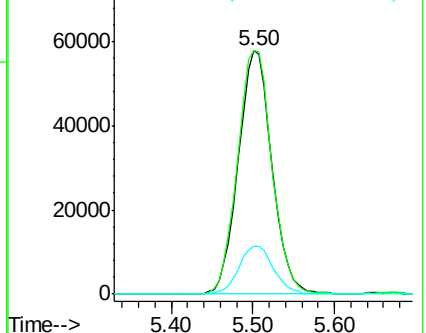
192 20.2 19.4 29.0

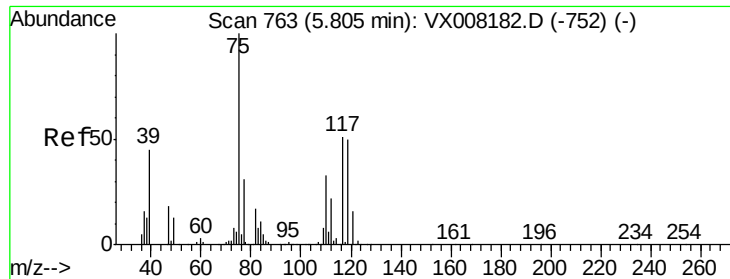


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

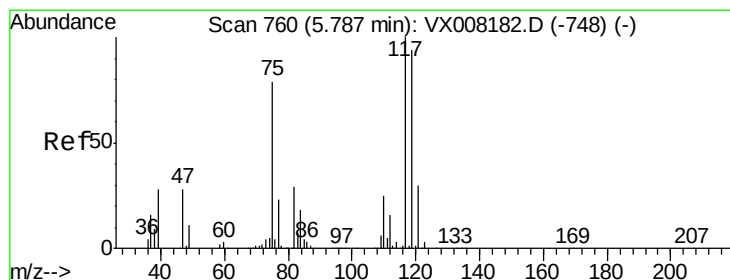
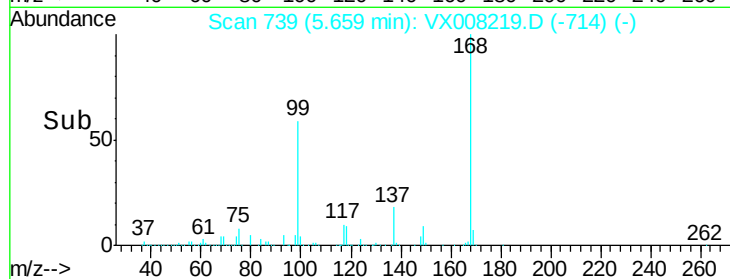
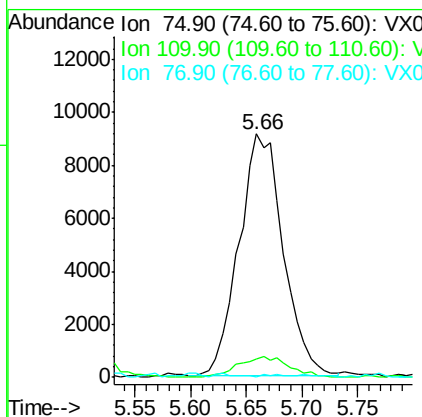
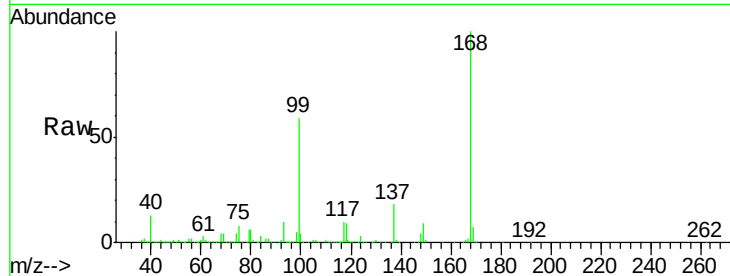




#36
 1,1-Dichloropropene
 Concen: 4.139 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.15 min
 Lab File: VX008219.D
 Acq: 20 Mar 2019 04:02

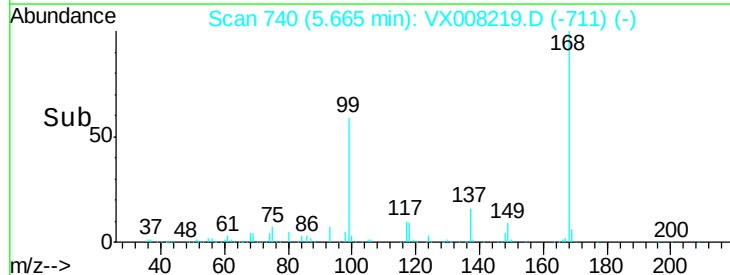
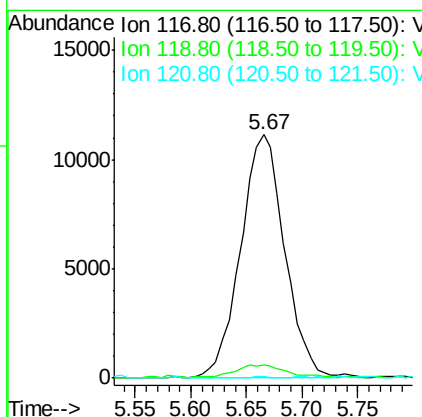
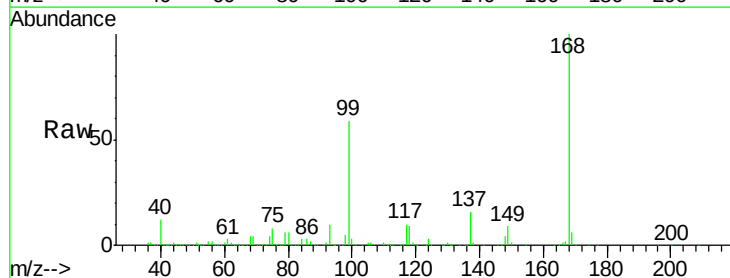
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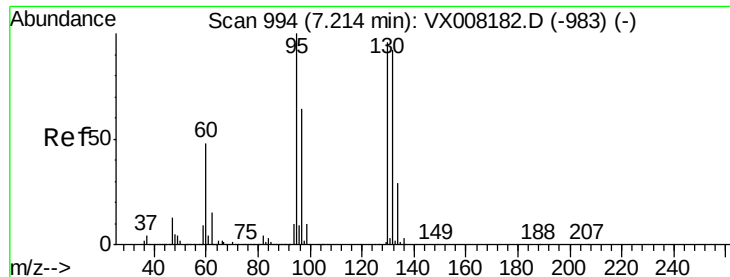
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.4	55.0#
77	0.6	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.663 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX008219.D
 Acq: 20 Mar 2019 04:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.2	114.2#
121	0.5	24.6	36.8#





#44

Trichloroethene

Concen: 0.385 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

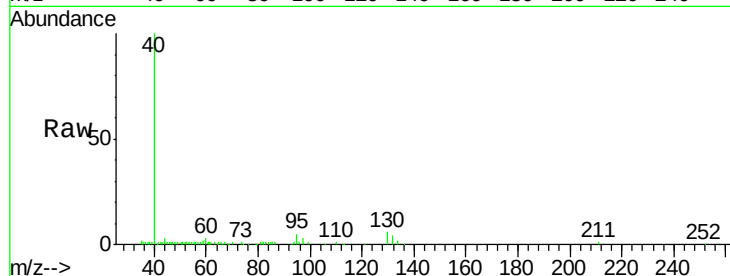
BP-DUP02-20190313

Tot Ion:130 Resp: 1690

Ion Ratio Lower Upper

130 100

95 78.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

800

600

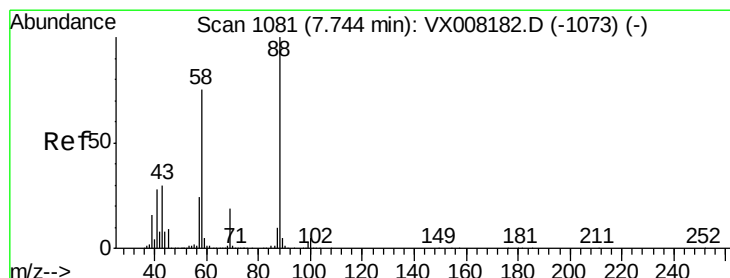
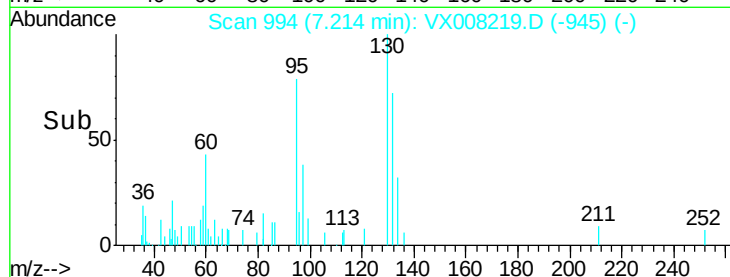
400

200

0

7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 1.251 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

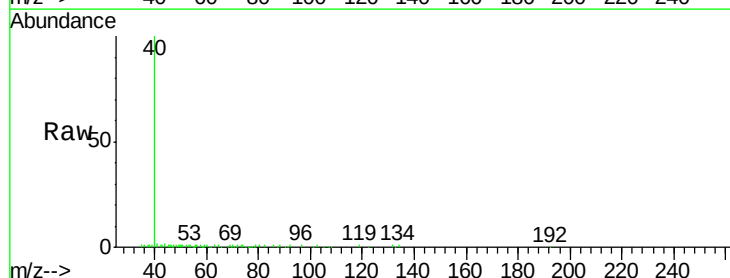
Tgt Ion: 88 Resp: 135

Ion Ratio Lower Upper

88 100

43 154.8 25.1 37.7#

58 128.1 57.8 86.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

400

300

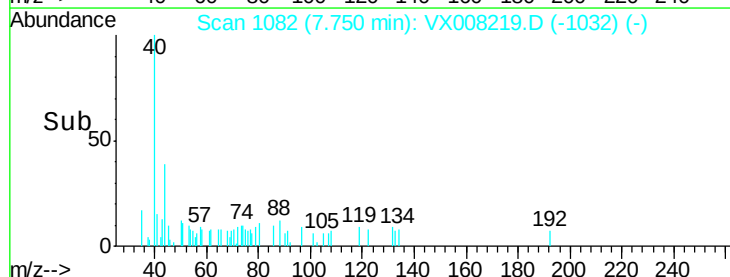
200

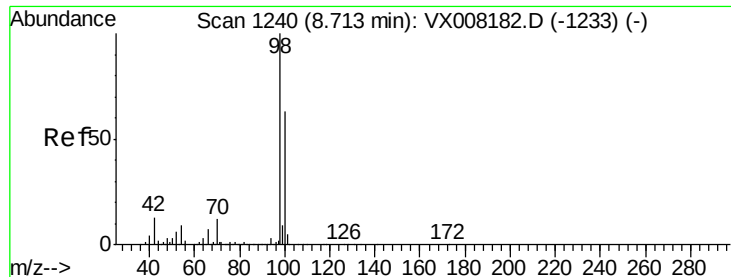
100

0

7.72 7.74 7.76 7.78

Time-->





#50

Toluene-d8

Concen: 47.821 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

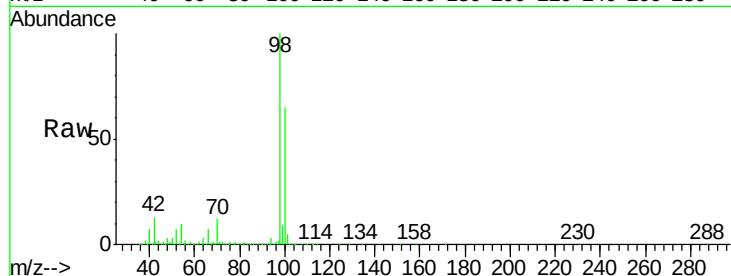
BP-DUP02-20190313

Tot Ion: 98 Resp: 632667

Ion Ratio Lower Upper

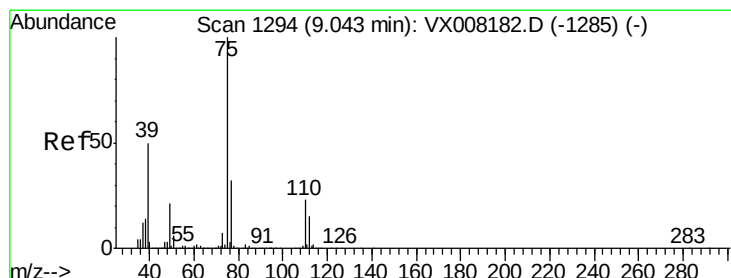
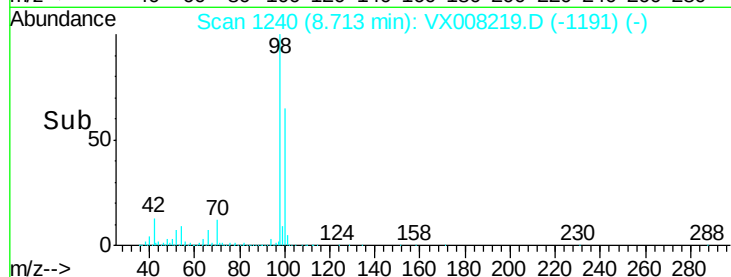
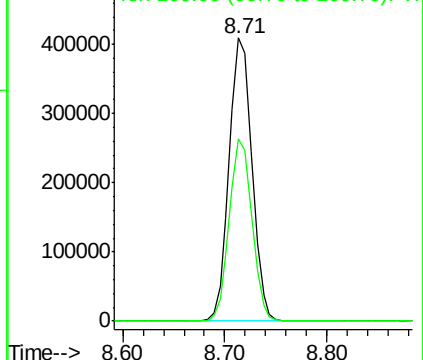
98 100

100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#53

t-1,3-Dichloropropene

Concen: 1.444 ug/l

RT: 9.05 min Scan# 1296

Delta R.T. 0.01 min

Lab File: VX008219.D

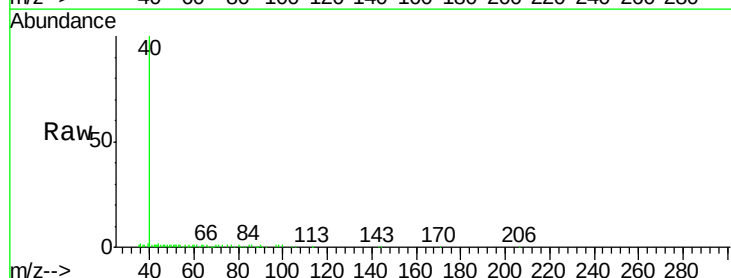
Acq: 20 Mar 2019 04:02

Tgt Ion: 75 Resp: 164

Ion Ratio Lower Upper

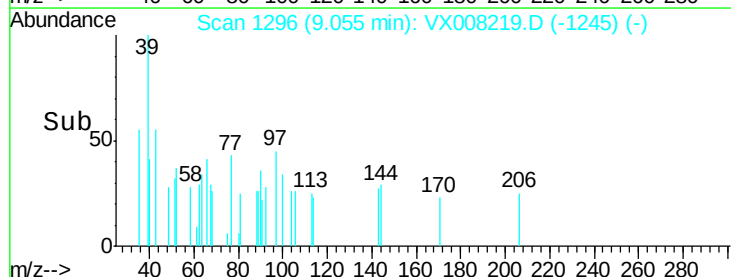
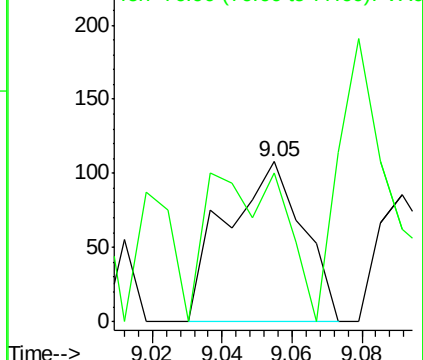
75 100

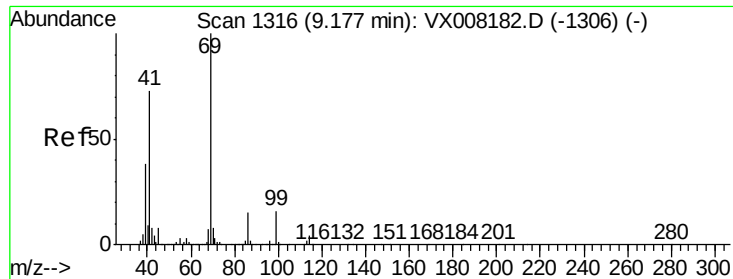
77 92.6 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#56

Ethyl methacrylate

Concen: 0.572 ug/l

RT: 9.19 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

BP-DUP02-20190313

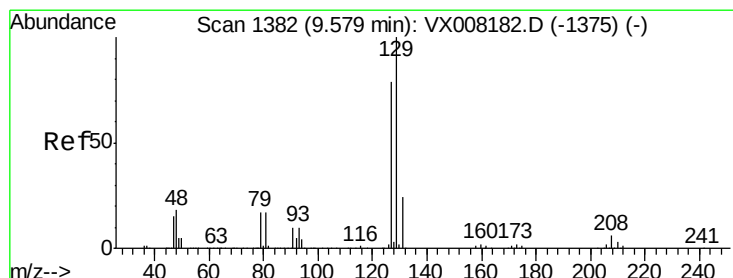
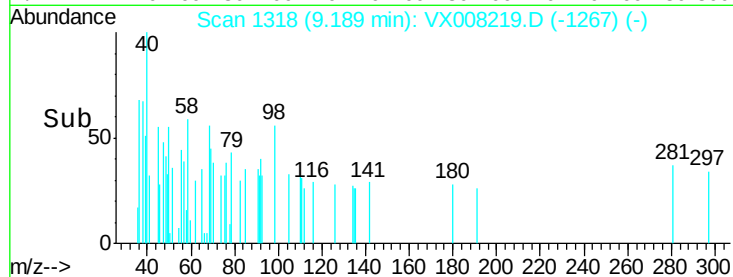
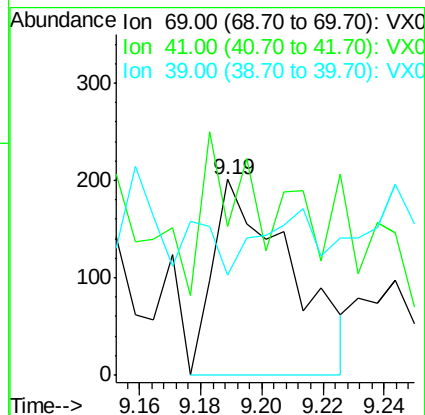
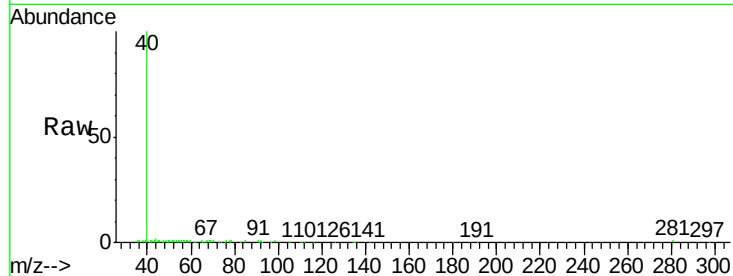
Tot Ion: 69 Resp: 350

Ion Ratio Lower Upper

69 100

41 44.3 54.2 81.4#

39 0.0 25.0 37.4#



#60

Dibromochloromethane

Concen: 0.699 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008219.D

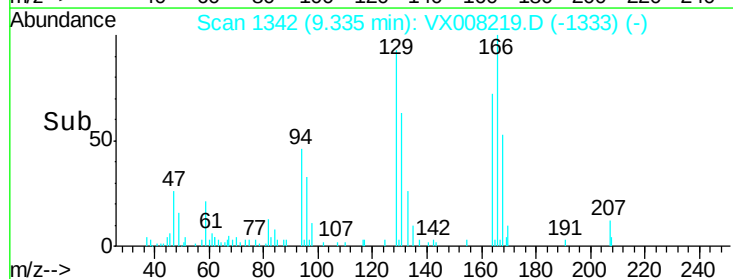
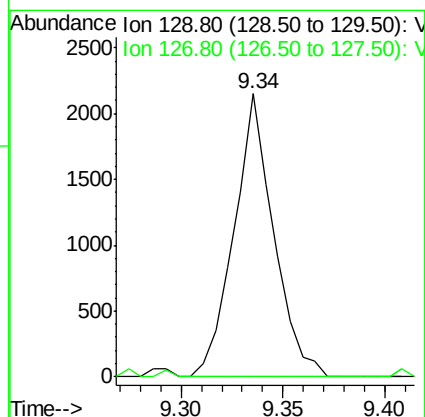
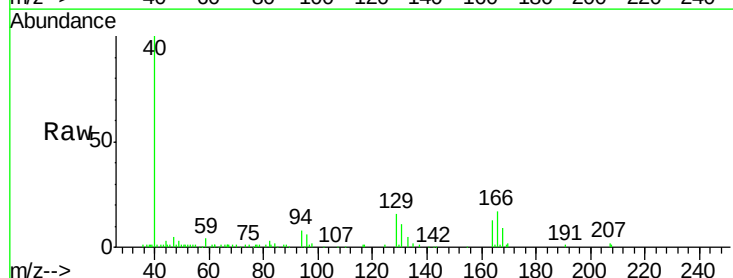
Acq: 20 Mar 2019 04:02

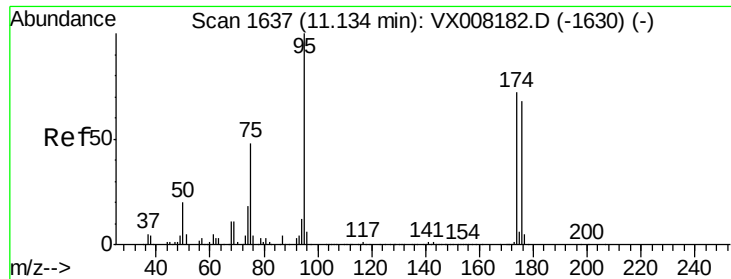
Tgt Ion: 129 Resp: 2892

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#

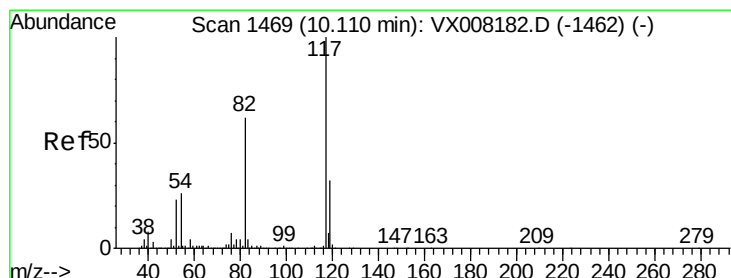
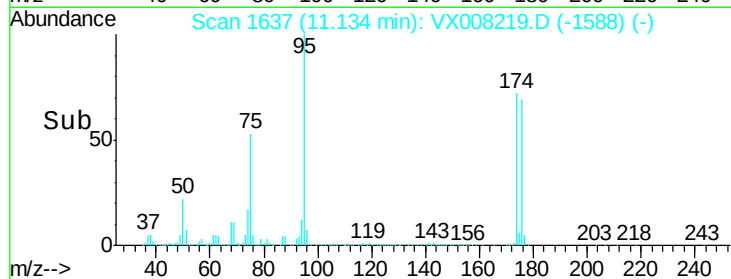
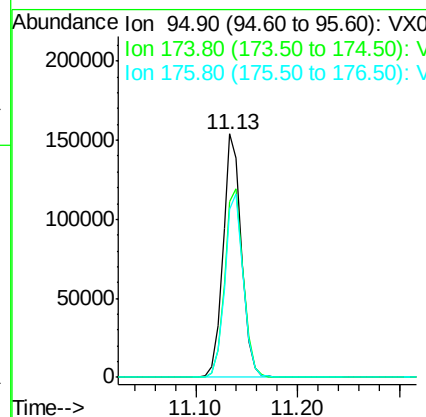
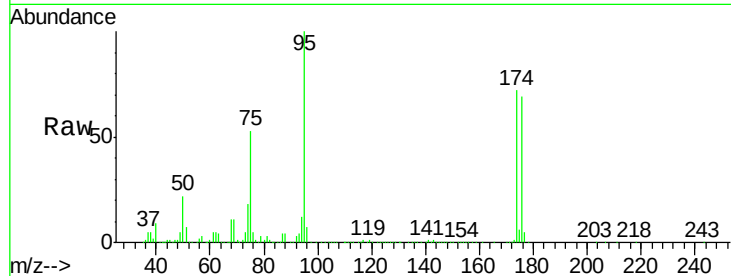




#62
4-Bromofluorobenzene
Concen: 42.656 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008219.D
Acq: 20 Mar 2019 04:02

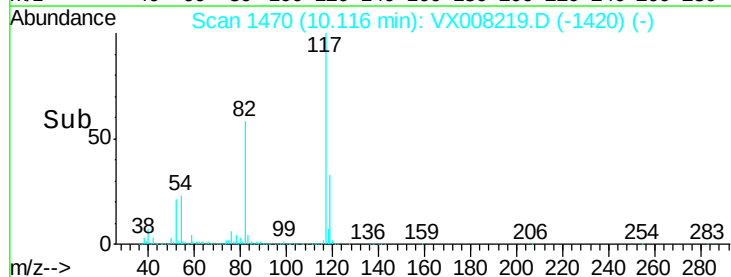
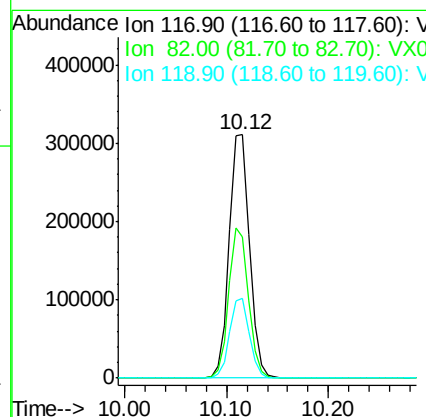
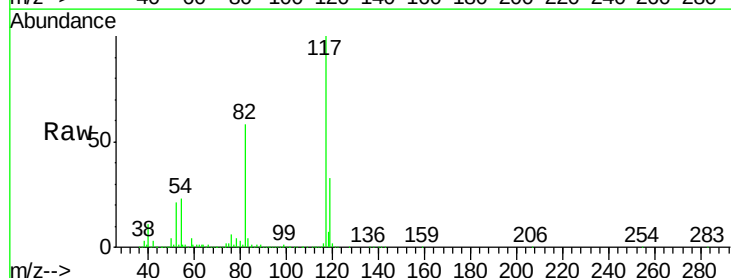
Instrument :
MSVOA_X
ClientSampleId :
BP-DUP02-20190313

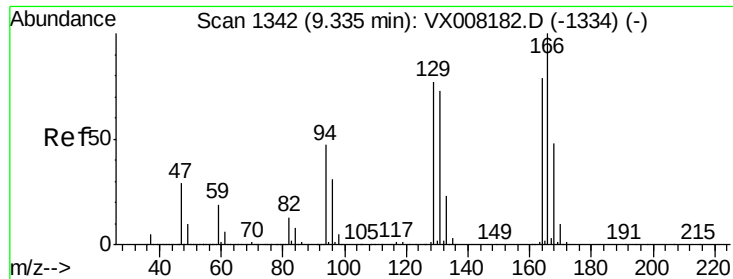
Tot Ion: 95 Resp: 194312
Ion Ratio Lower Upper
95 100
174 78.3 0.0 182.8
176 75.5 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008219.D
Acq: 20 Mar 2019 04:02

Tgt Ion: 117 Resp: 429565
Ion Ratio Lower Upper
117 100
82 57.8 44.3 66.5
119 32.6 25.3 37.9





#64

Tetrachloroethene

Concen: 0.713 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

BP-DUP02-20190313

Tot Ion:164 Resp: 2765

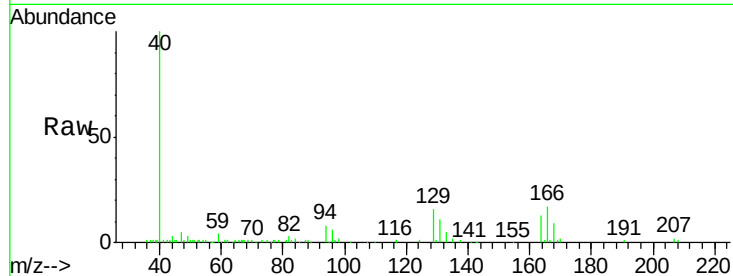
Ion Ratio Lower Upper

164 100

166 138.9 103.4 155.0

129 128.5 72.2 108.4#

131 87.8 69.4 104.2

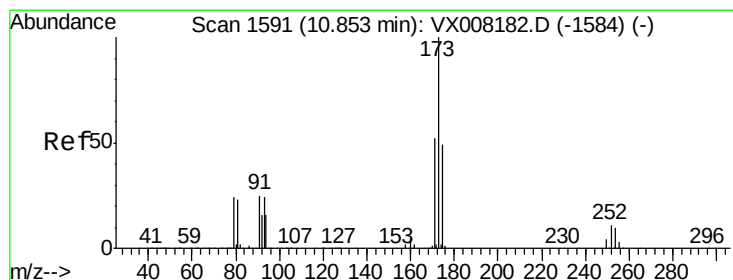
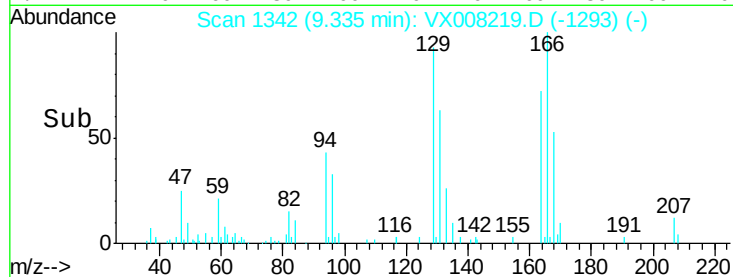
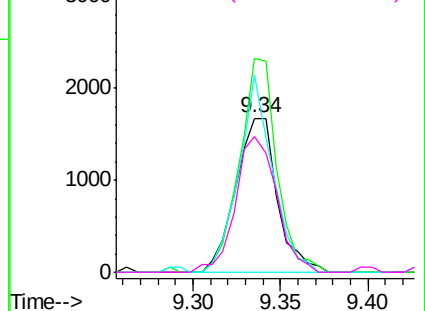


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 2.221 ug/l

RT: 10.60 min Scan# 1549

Delta R.T. -0.26 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

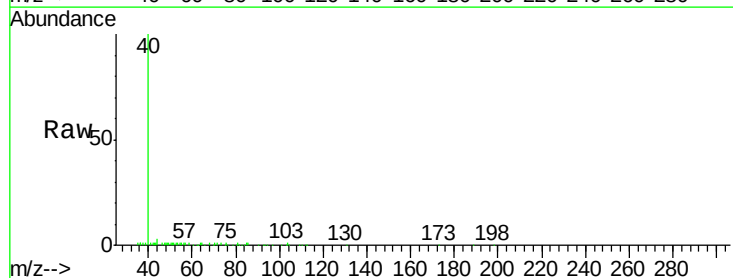
Tgt Ion:173 Resp: 62

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

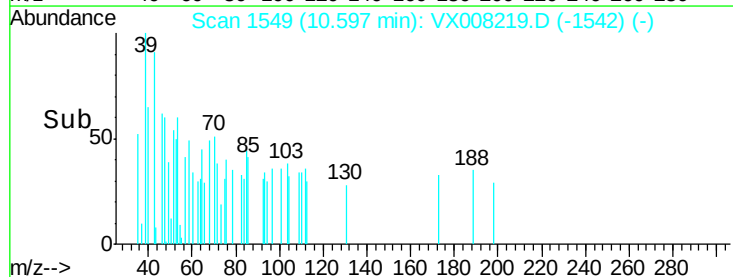
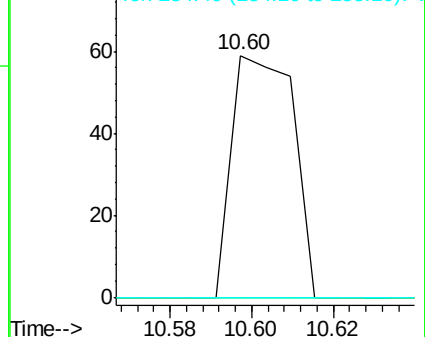
254 0.0 0.1 0.1#

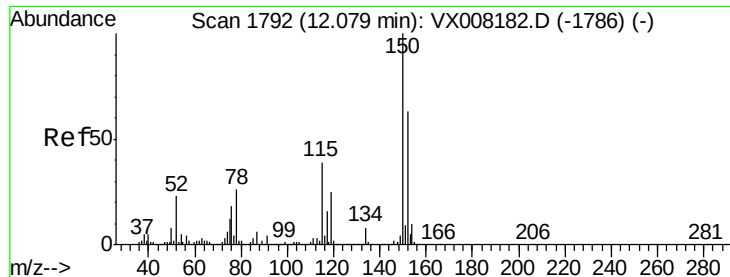


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

BP-DUP02-20190313

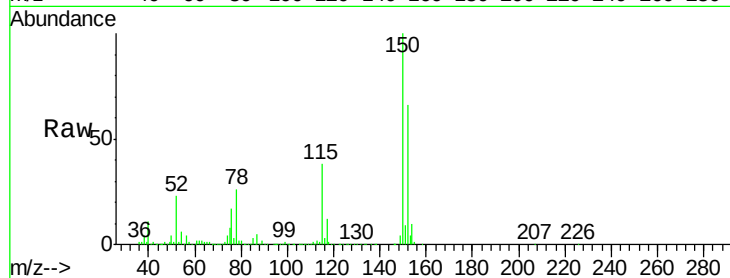
Tot Ion:152 Resp: 165812

Ion Ratio Lower Upper

152 100

115 60.0 38.6 115.7

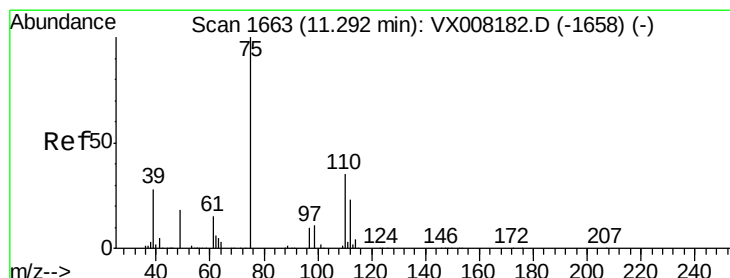
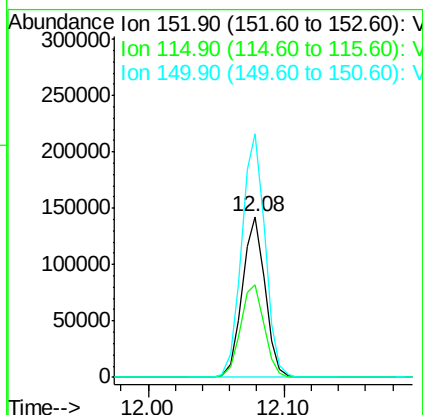
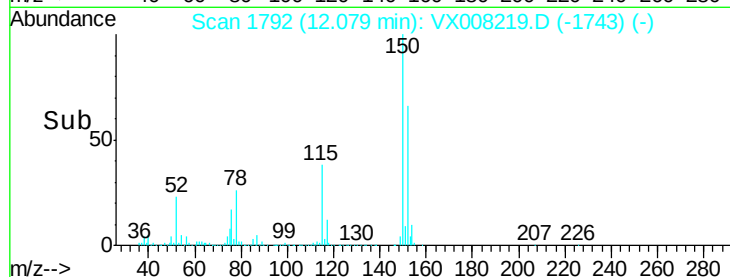
150 155.7 0.0 348.4



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: 21.790 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008219.D

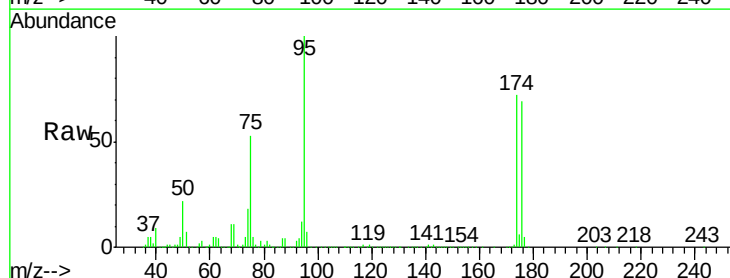
Acq: 20 Mar 2019 04:02

Tgt Ion: 75 Resp: 101620

Ion Ratio Lower Upper

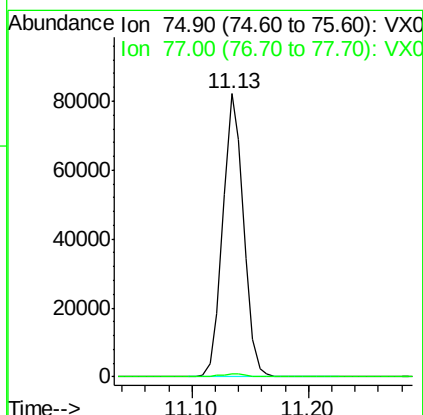
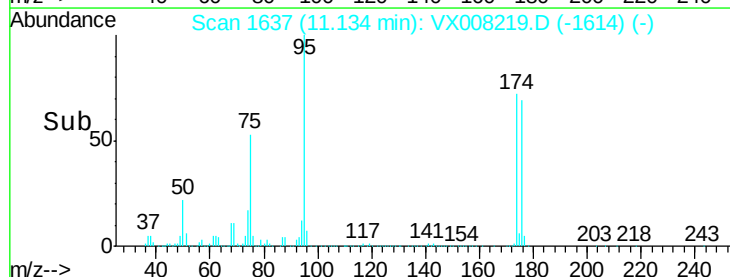
75 100

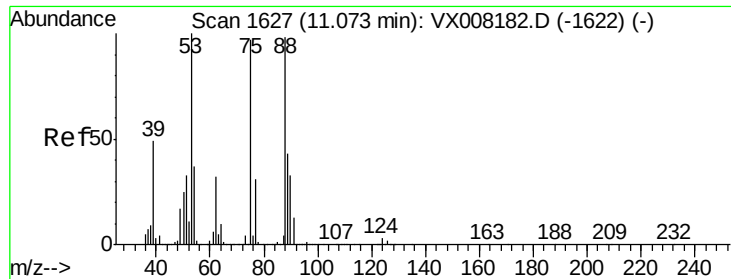
77 1.3 18.9 56.7#



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: 55.389 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008219.D

Acq: 20 Mar 2019 04:02

Instrument :

MSVOA_X

ClientSampleId :

BP-DUP02-20190313

Tot Ion: 75 Resp: 101620

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.0 36.3 54.5#

