

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071119\
 Data File : VX010812.D
 Acq On : 11 Jul 2019 17:10
 Operator : JC/SP
 Sample : K3756-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY030LC006-SW-190710

Quant Time: Jul 12 06:56:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	218511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	346424	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	314706	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	140544	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	112891	55.10	ug/l	0.00
Spiked Amount			Recovery	=	110.20%	
35) Dibromofluoromethane	5.50	113	106413	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
50) Toluene-d8	8.71	98	406489	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
62) 4-Bromofluorobenzene	11.13	95	139645	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	

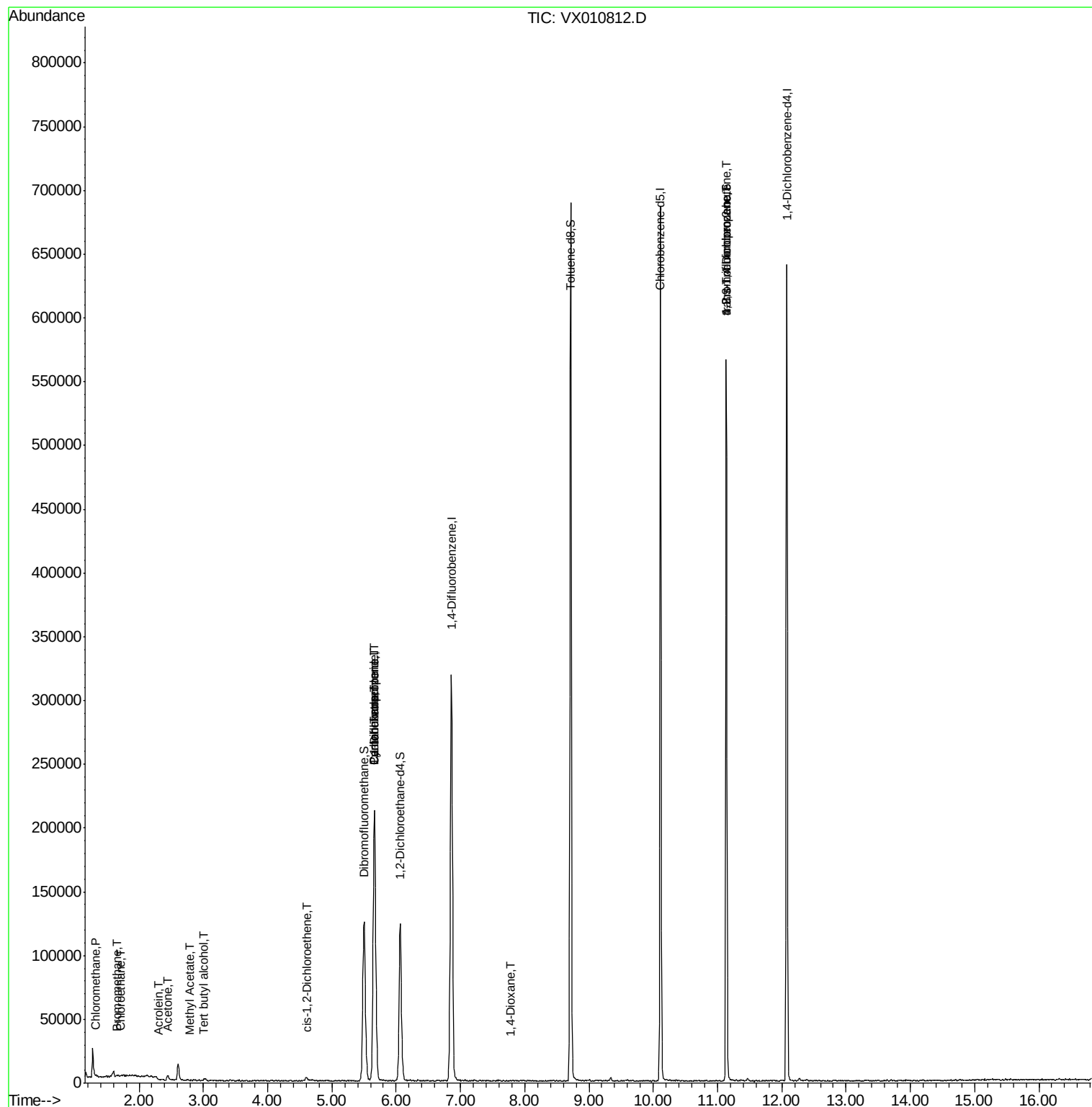
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	835	0.472	ug/l	91
5) Bromomethane	1.65	94	511	0.541	ug/l	81
6) Chloroethane	1.71	64	1361	1.191	ug/l #	71
11) Tert butyl alcohol	3.01	59	491	0.916	ug/l #	46
13) Acrolein	2.31	56	259	0.728	ug/l #	14
16) Acetone	2.45	43	3972	3.868	ug/l	98
18) Methyl Acetate	2.78	43	560	0.274	ug/l #	48
27) cis-1,2-Dichloroethene	4.60	96	1518	0.645	ug/l	80
31) Cyclohexane	5.67	56	4009	1.355	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14192	5.155	ug/l #	38
38) Carbon Tetrachloride	5.66	117	19700	6.609	ug/l #	15
49) 1,4-Dioxane	7.79	88	45	0.717	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	68589	26.781	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	68589	62.478	ug/l #	16

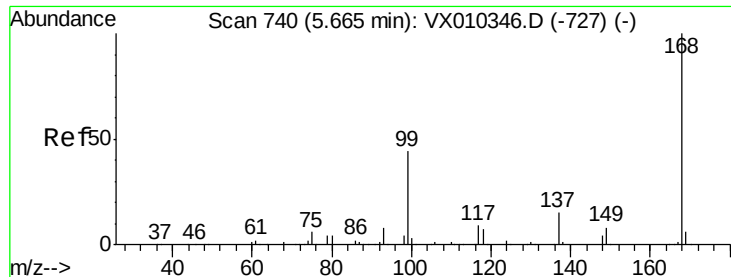
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX010812.D

Acq: 11 Jul 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

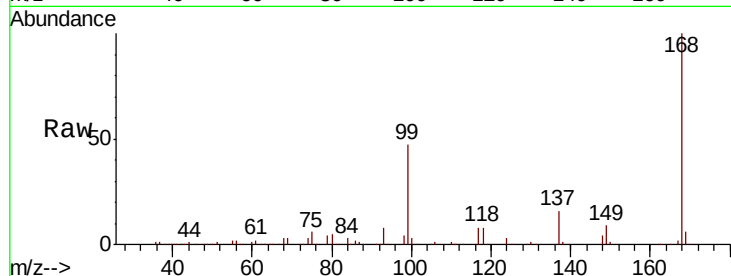
KY030LC006-SW-190710

Tot Ion:168 Resp: 218511

Ion Ratio Lower Upper

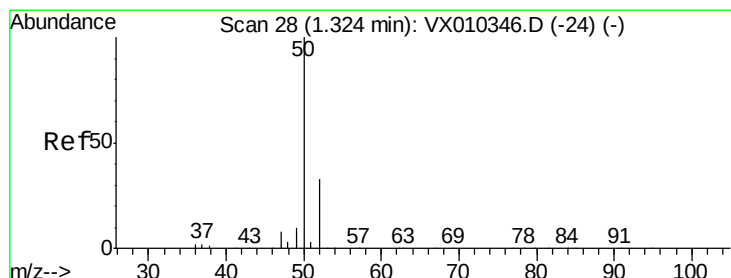
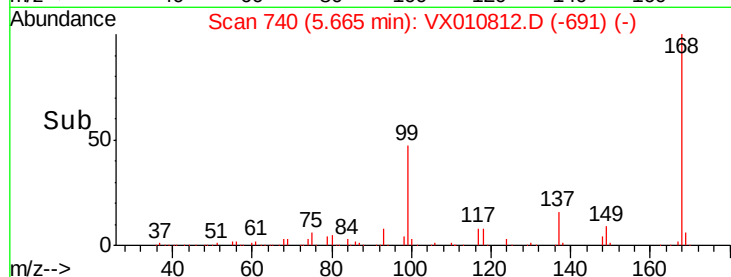
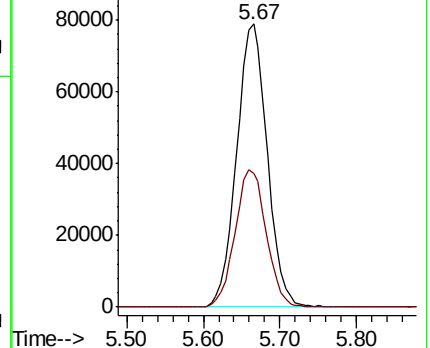
168 100

99 47.3 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.472 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010812.D

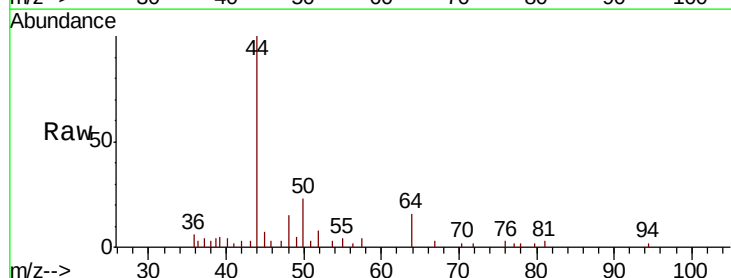
Acq: 11 Jul 2019 17:10

Tgt Ion: 50 Resp: 835

Ion Ratio Lower Upper

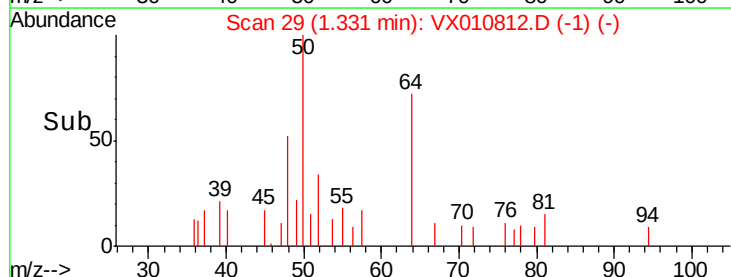
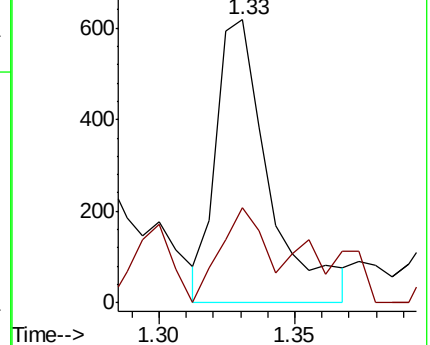
50 100

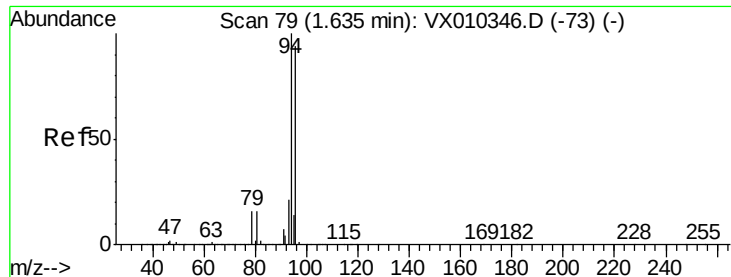
52 38.4 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.541 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

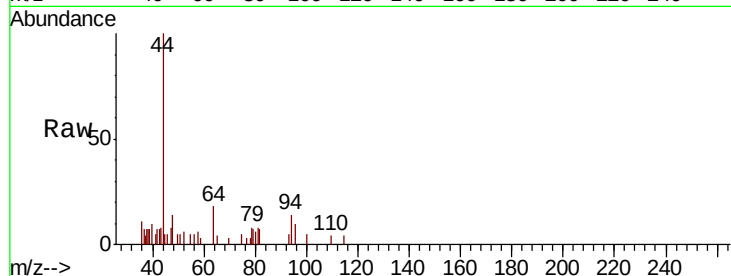
KY030LC006-SW-190710

Tot Ion: 94 Resp: 511

Ion Ratio Lower Upper

94 100

96 75.9 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

100

50

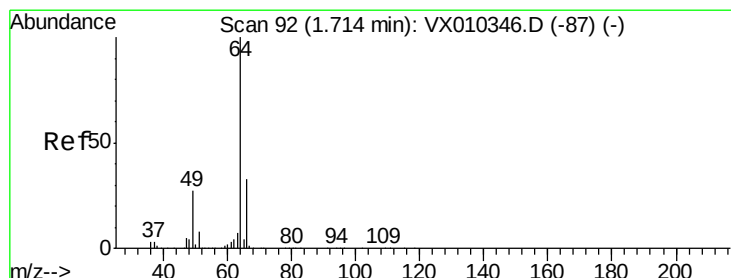
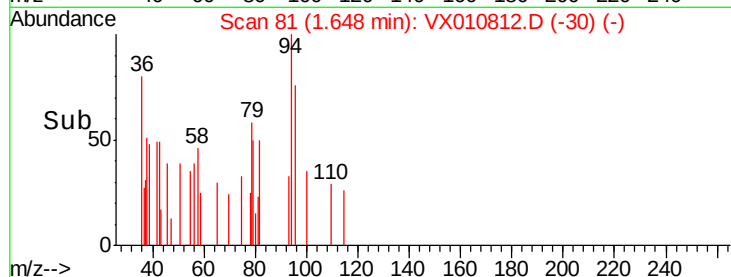
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 1.191 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX010812.D

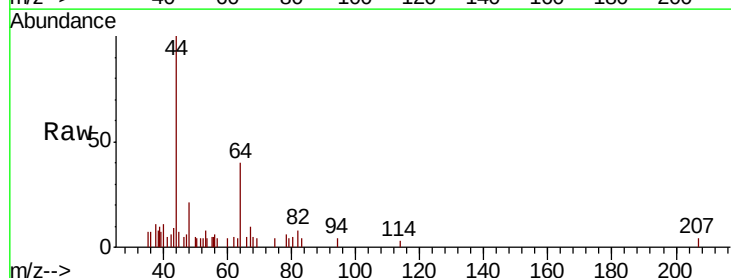
Acq: 11 Jul 2019 17:10

Tgt Ion: 64 Resp: 1361

Ion Ratio Lower Upper

64 100

66 16.9 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

600

400

200

0

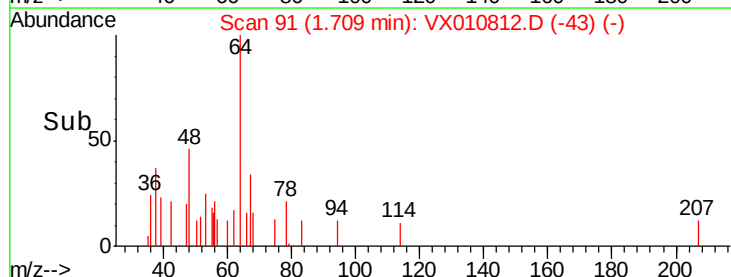
1.60

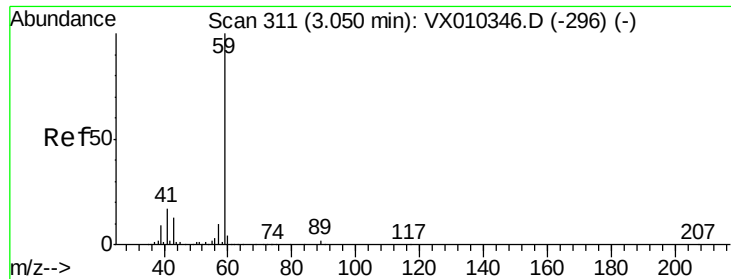
1.65

1.70

1.75

Time-->



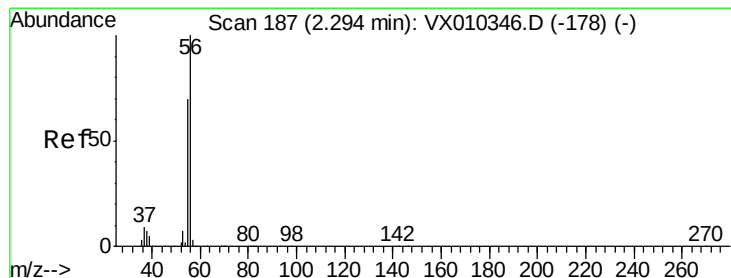
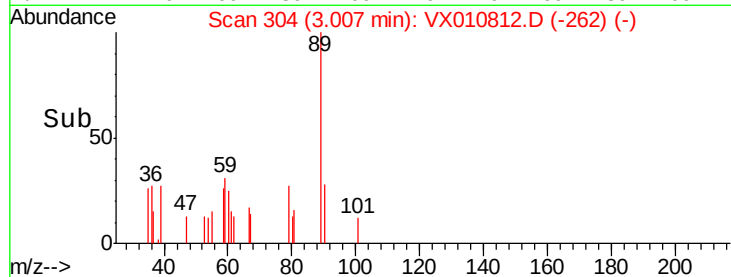
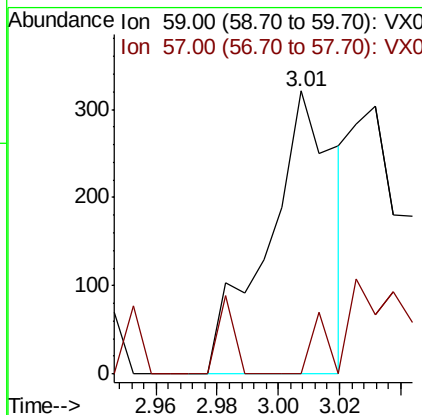
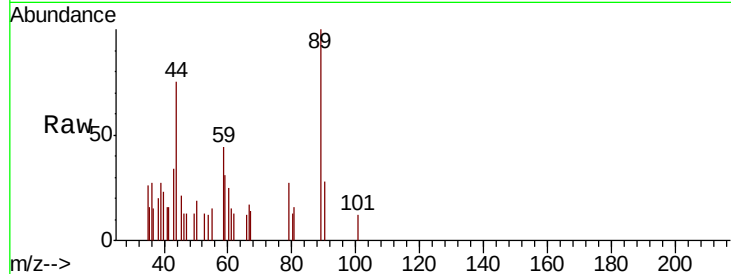


#11

Tert butyl alcohol
 Concen: 0.916 ug/l
 RT: 3.01 min Scan# 304
 Delta R.T. -0.04 min
 Lab File: VX010812.D
 Acq: 11 Jul 2019 17:10

Instrument :
 MSVOA_X
 ClientSampleId :
 KY030LC006-SW-190710

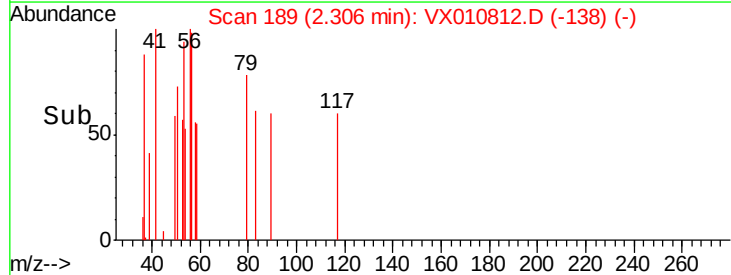
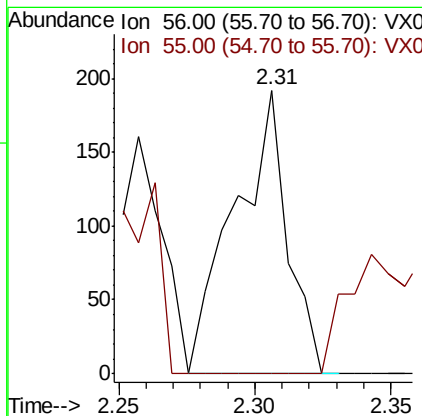
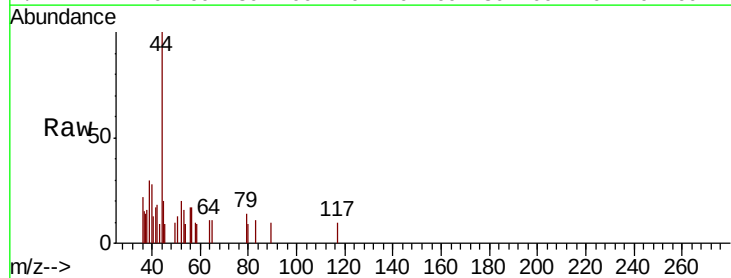
Tot Ion: 59 Resp: 491
 Ion Ratio Lower Upper
 59 100
 57 29.3 7.7 11.5#

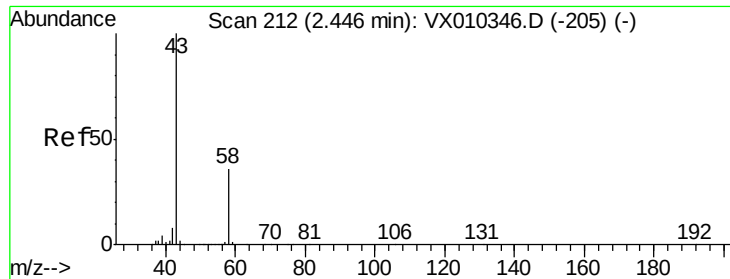


#13

Acrolein
 Concen: 0.728 ug/l
 RT: 2.31 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VX010812.D
 Acq: 11 Jul 2019 17:10

Tgt Ion: 56 Resp: 259
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.9 85.3#





#16

Acetone

Concen: 3.868 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

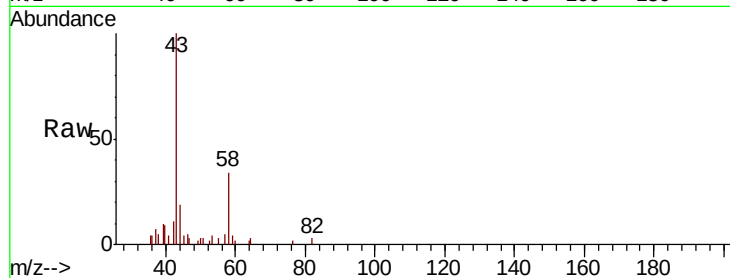
KY030LC006-SW-190710

Tot Ion: 43 Resp: 3972

Ion Ratio Lower Upper

43 100

58 34.8 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

2000

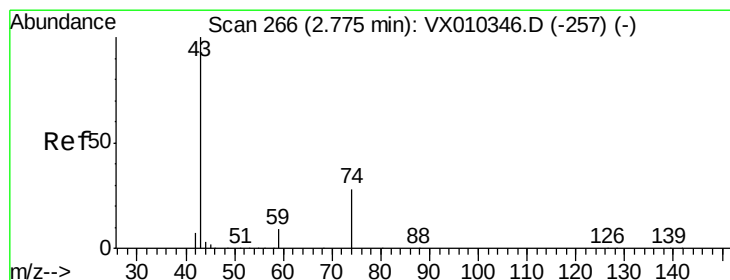
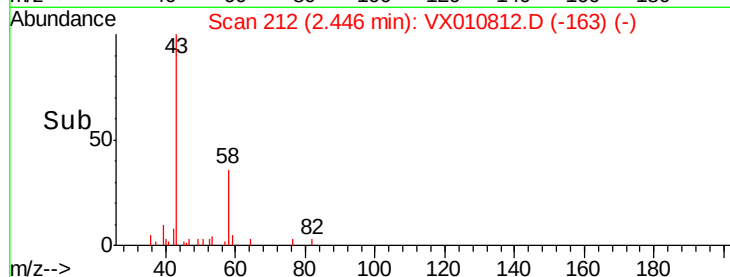
1500

1000

500

0

Time--> 2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.274 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX010812.D

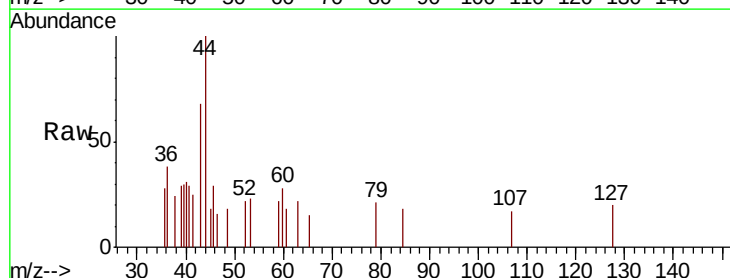
Acq: 11 Jul 2019 17:10

Tgt Ion: 43 Resp: 560

Ion Ratio Lower Upper

43 100

74 0.0 21.3 31.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

250

200

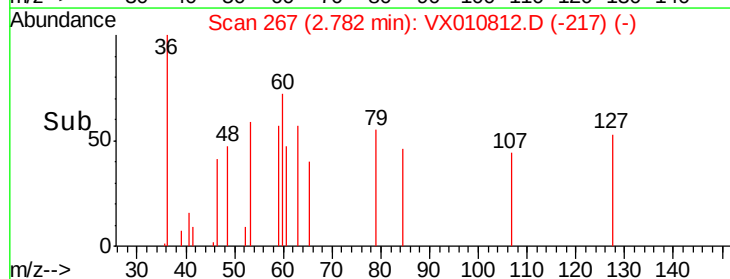
150

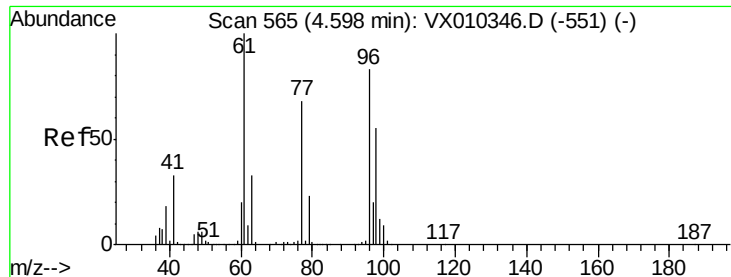
100

50

0

Time--> 2.75 2.80



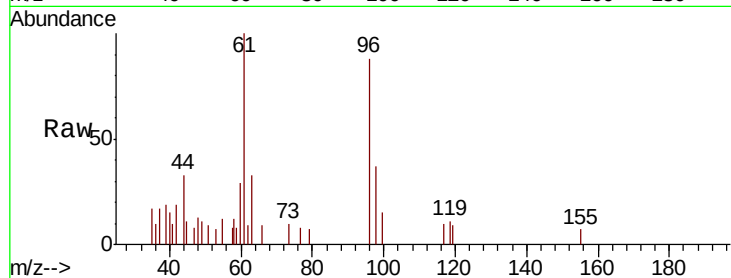


#27

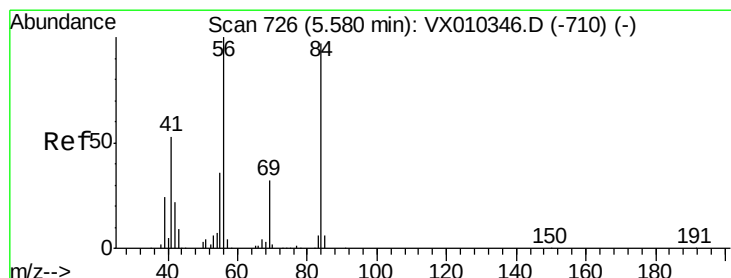
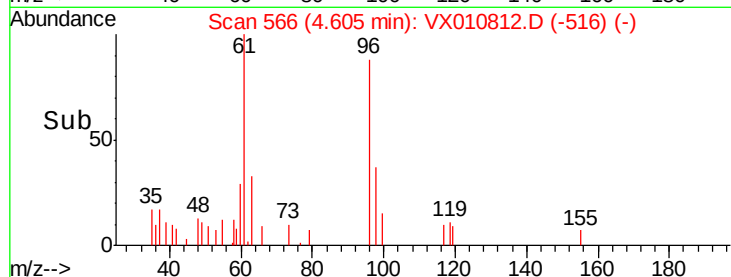
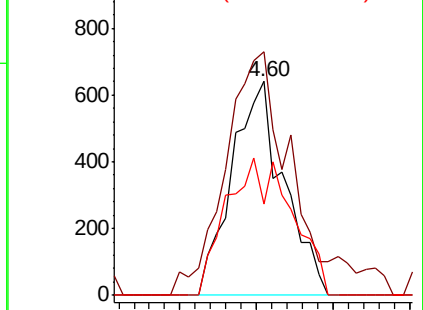
cis-1,2-Dichloroethene
 Concen: 0.645 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX010812.D
 Acq: 11 Jul 2019 17:10

Instrument :
 MSVOA_X
 ClientSampleId :
 KY030LC006-SW-190710

Tot Ion: 96 Resp: 1518
 Ion Ratio Lower Upper
 96 100
 61 148.5 0.0 251.8
 98 80.5 0.0 129.4



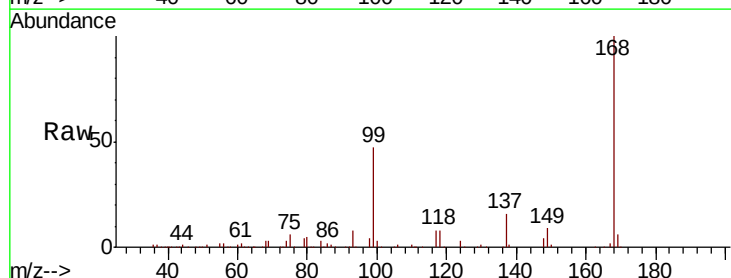
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



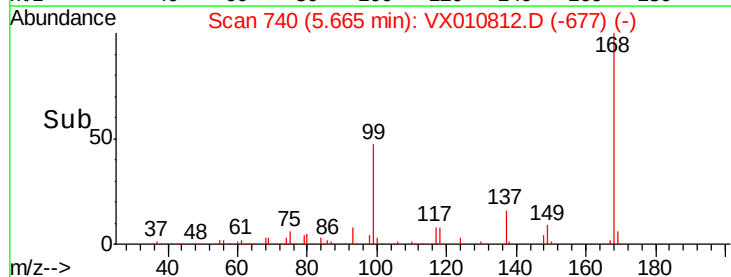
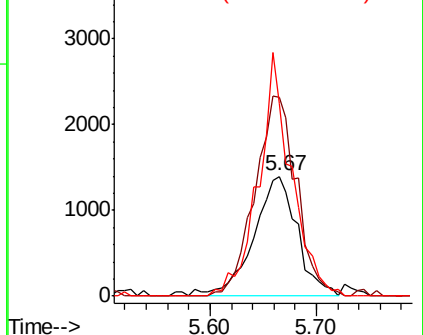
#31

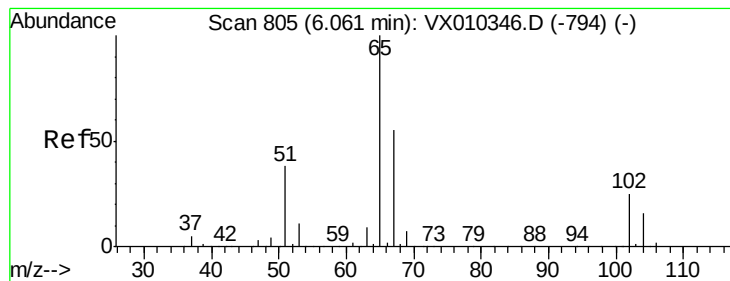
Cyclohexane
 Concen: 1.355 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. 0.09 min
 Lab File: VX010812.D
 Acq: 11 Jul 2019 17:10

Tgt Ion: 56 Resp: 4009
 Ion Ratio Lower Upper
 56 100
 69 166.1 25.9 38.9#
 84 160.8 78.0 117.0#



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: 55.102 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

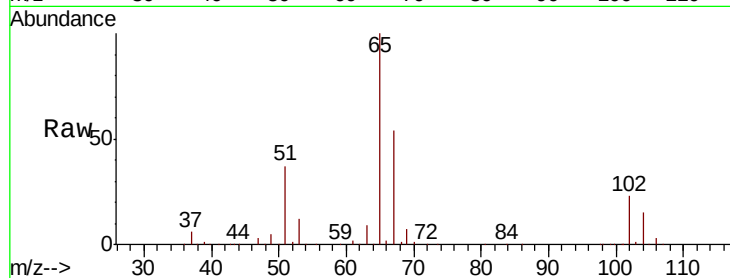
KY030LC006-SW-190710

Tot Ion: 65 Resp: 112891

Ion Ratio Lower Upper

65 100

67 54.2 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

40000

30000

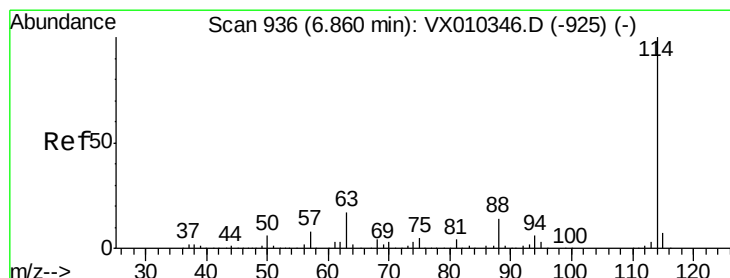
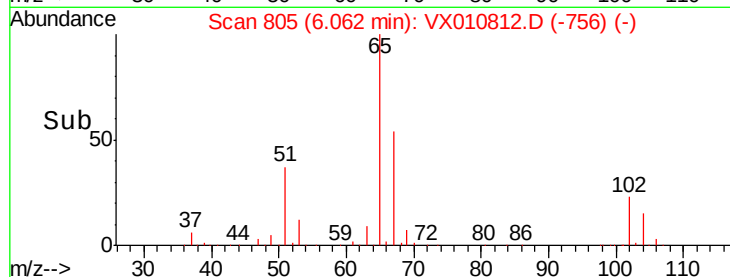
20000

10000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

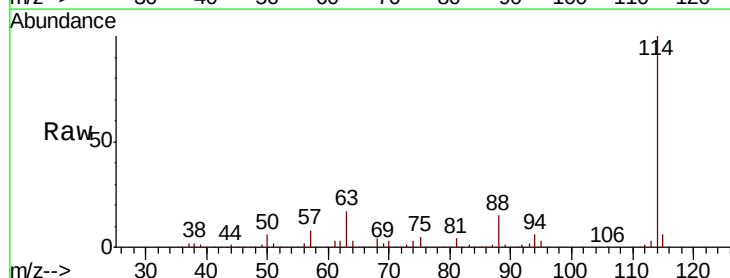
Tgt Ion: 114 Resp: 346424

Ion Ratio Lower Upper

114 100

63 17.4 0.0 33.8

88 14.7 0.0 27.6



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

200000

150000

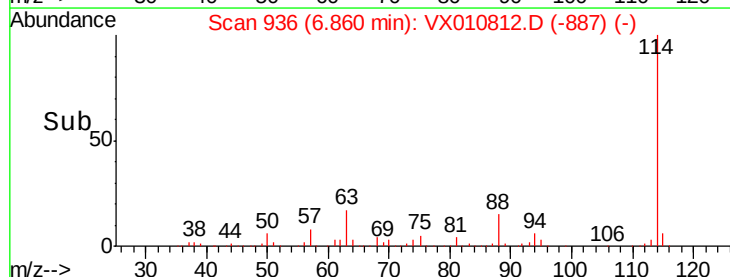
100000

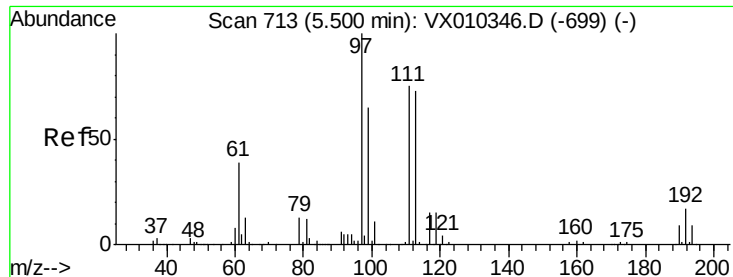
50000

0

6.70 6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 50.206 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

KY030LC006-SW-190710

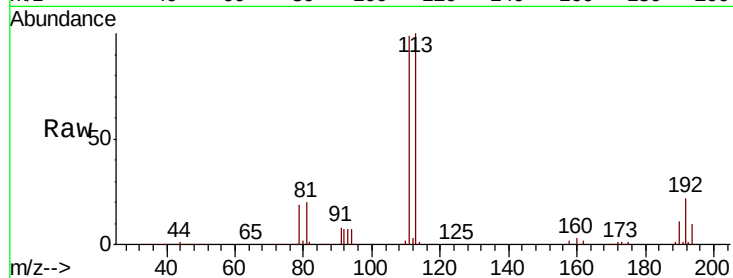
Tot Ion:113 Resp: 106413

Ion Ratio Lower Upper

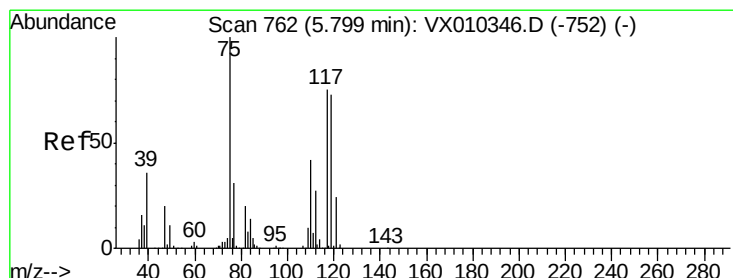
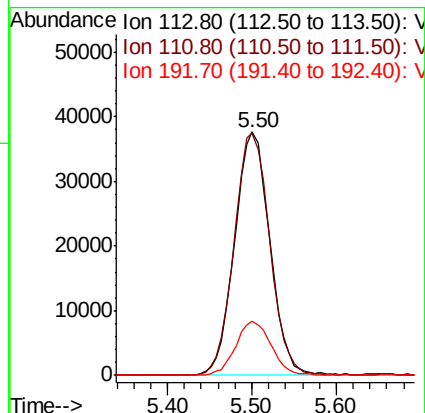
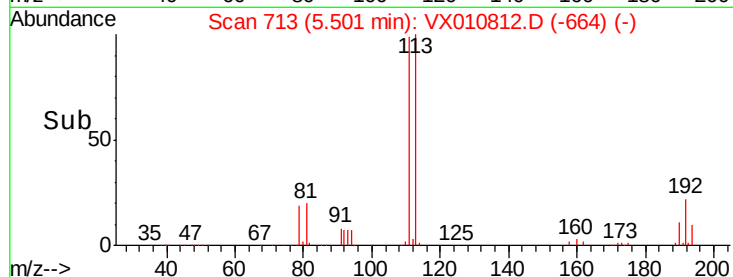
113 100

111 100.9 81.2 121.8

192 22.2 18.6 27.8



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: 5.155 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

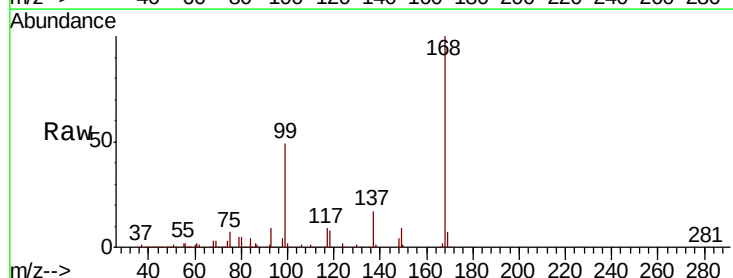
Tgt Ion: 75 Resp: 14192

Ion Ratio Lower Upper

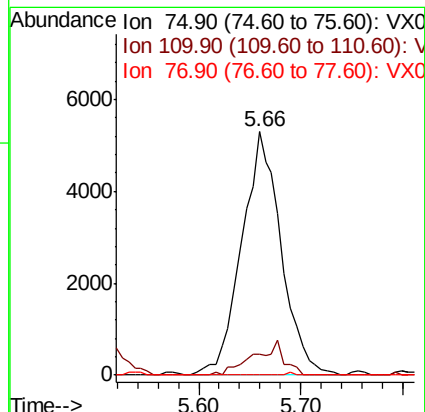
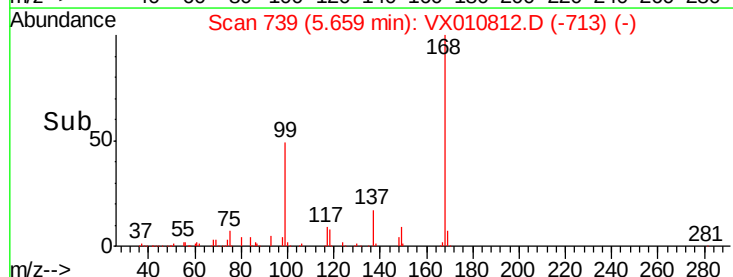
75 100

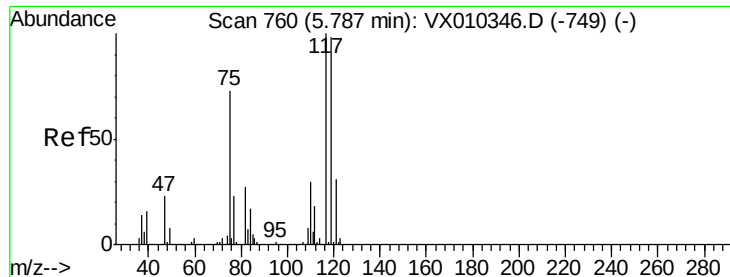
110 0.0 20.8 62.2#

77 0.0 25.4 38.0#



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: 6.609 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

KY030LC006-SW-190710

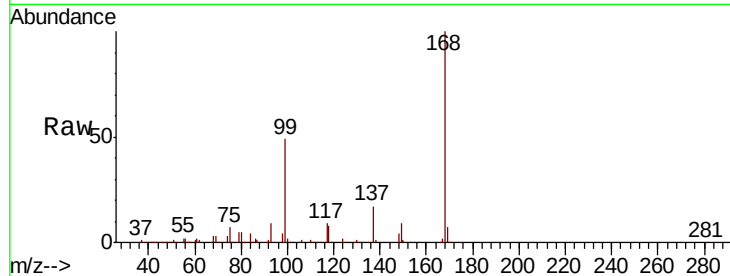
Tot Ion:117 Resp: 19700

Ion Ratio Lower Upper

117 100

119 4.8 78.2 117.4#

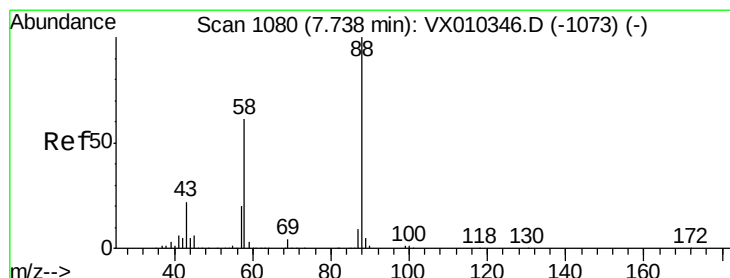
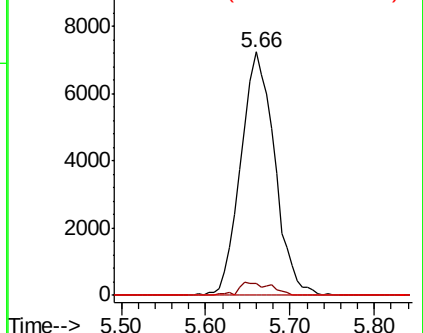
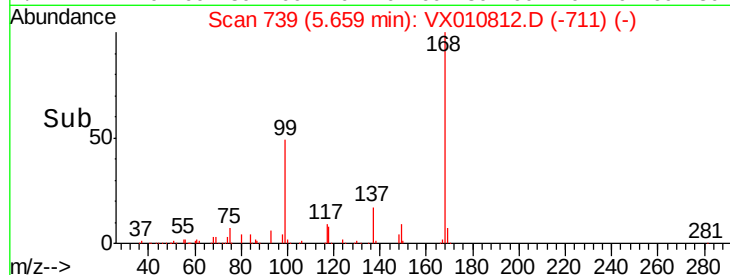
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 0.717 ug/l

RT: 7.79 min Scan# 1089

Delta R.T. 0.06 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

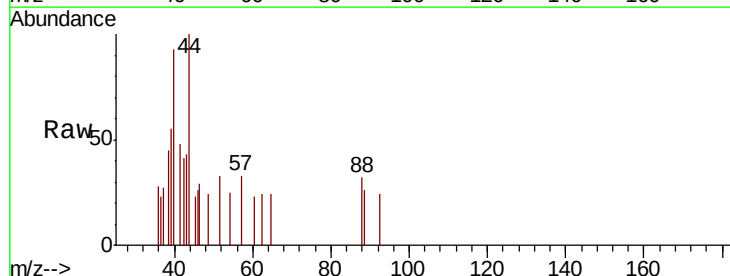
Tgt Ion: 88 Resp: 45

Ion Ratio Lower Upper

88 100

43 242.2 20.2 30.2#

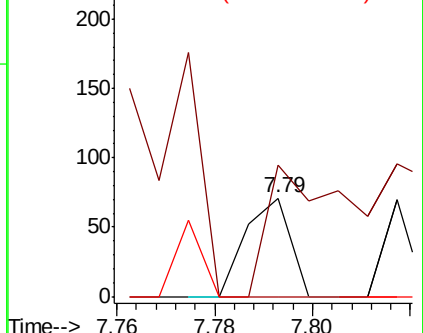
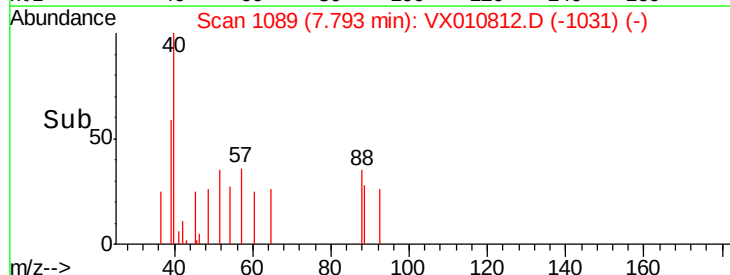
58 0.0 49.5 74.3#

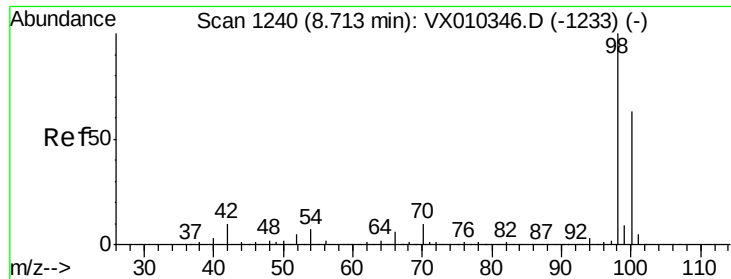


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.128 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

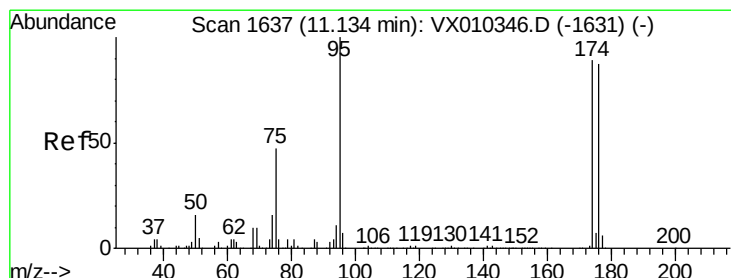
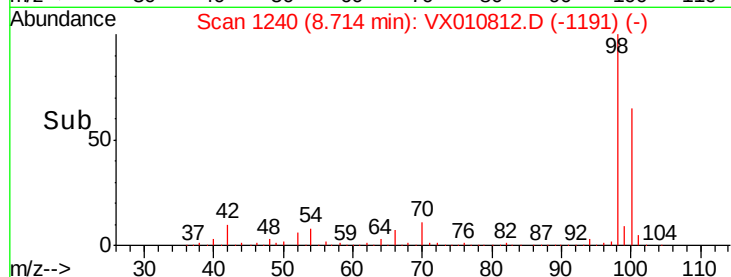
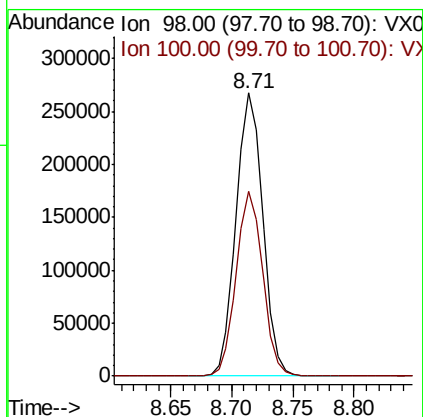
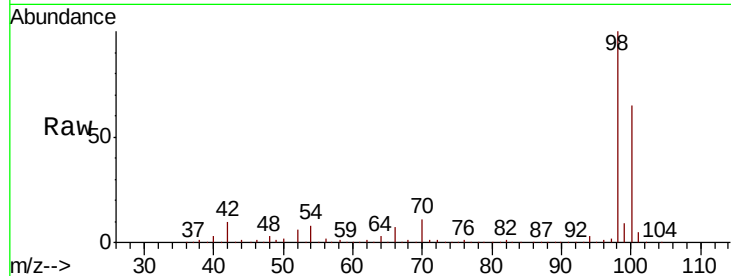
KY030LC006-SW-190710

Tot Ion: 98 Resp: 406489

Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 47.700 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

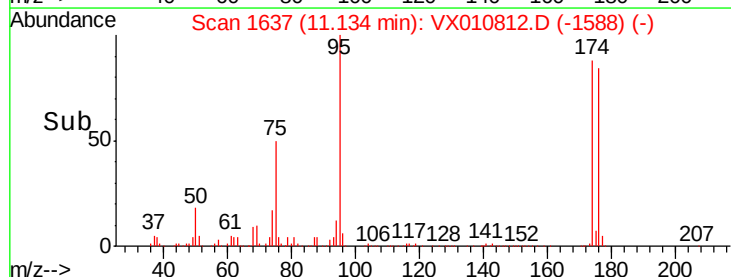
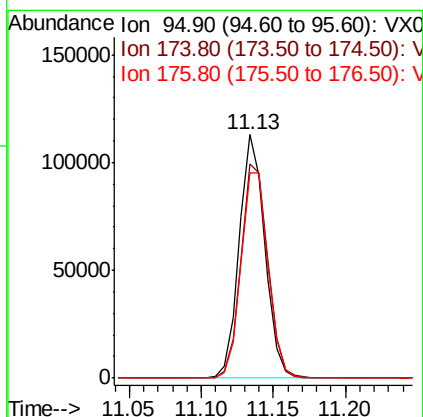
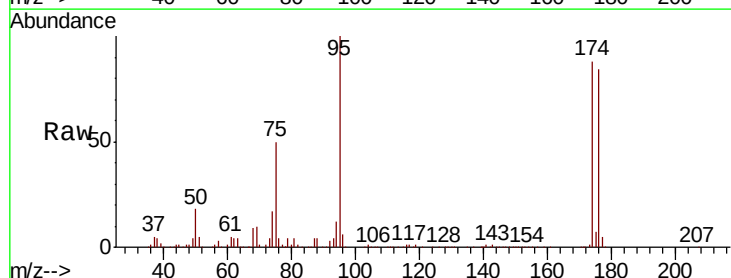
Tgt Ion: 95 Resp: 139645

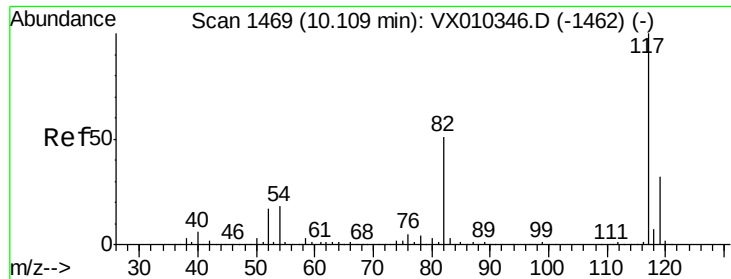
Ion Ratio Lower Upper

95 100

174 91.8 0.0 187.6

176 89.5 0.0 184.0

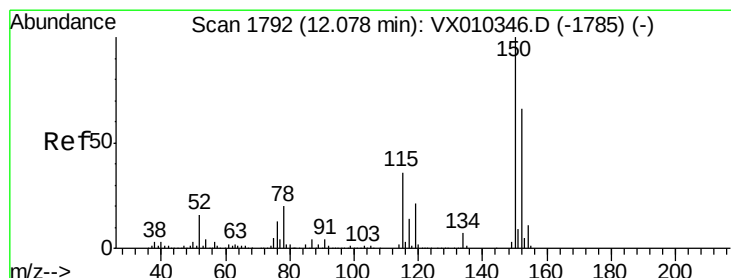
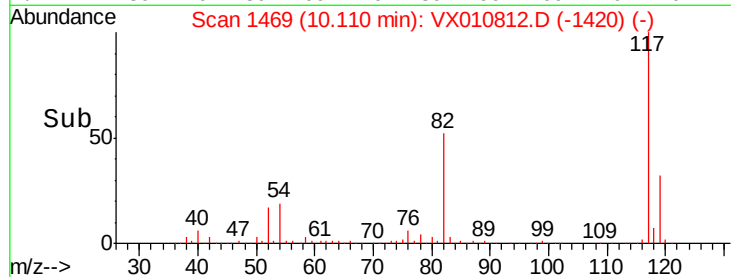
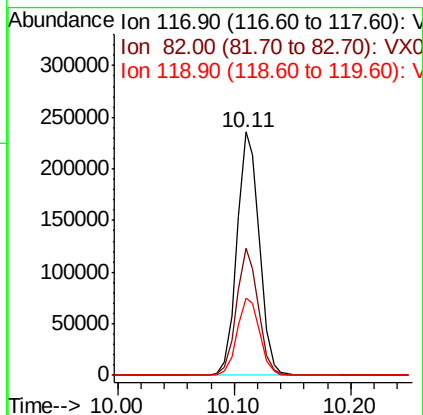
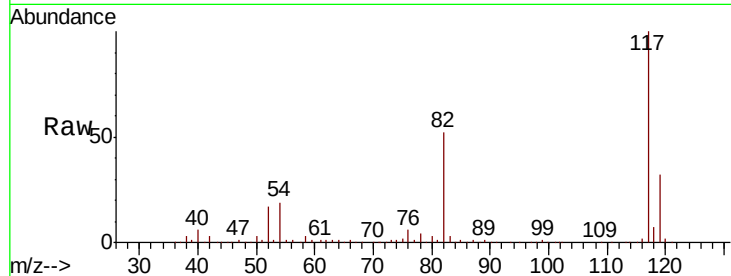




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010812.D
Acq: 11 Jul 2019 17:10

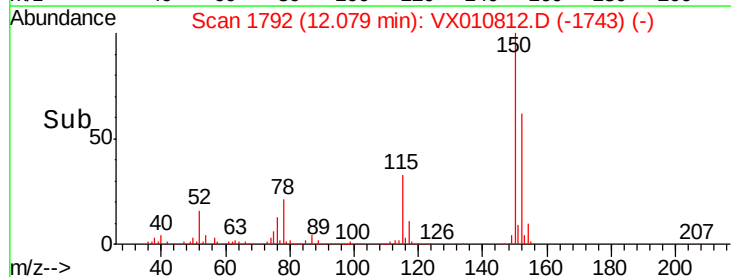
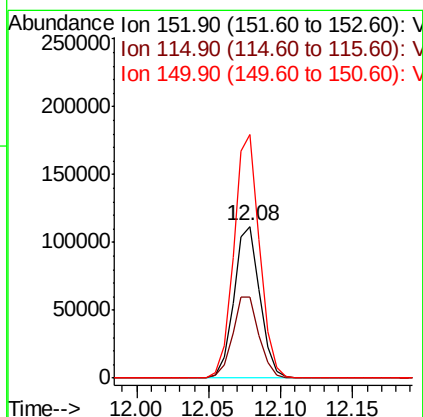
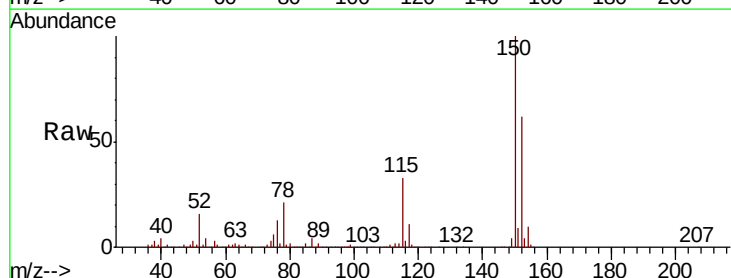
Instrument :
MSVOA_X
ClientSampleId :
KY030LC006-SW-190710

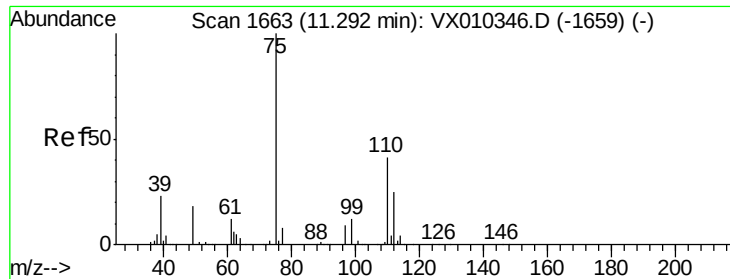
Tot Ion:117 Resp: 314706
Ion Ratio Lower Upper
117 100
82 52.2 41.2 61.8
119 31.8 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010812.D
Acq: 11 Jul 2019 17:10

Tgt Ion:152 Resp: 140544
Ion Ratio Lower Upper
152 100
115 55.2 38.6 115.7
150 159.6 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 26.781 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

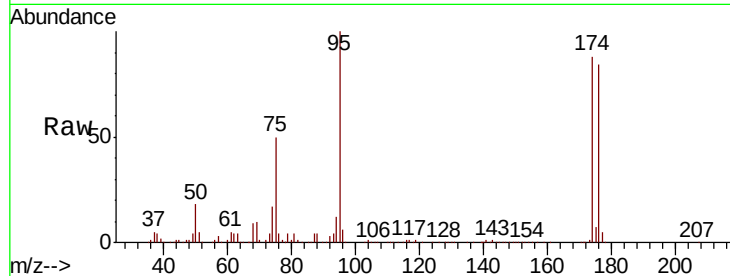
KY030LC006-SW-190710

Tot Ion: 75 Resp: 68589

Ion Ratio Lower Upper

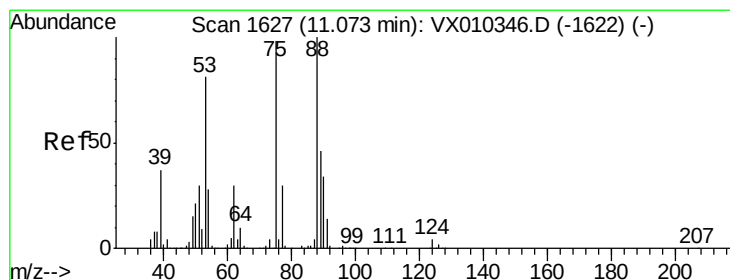
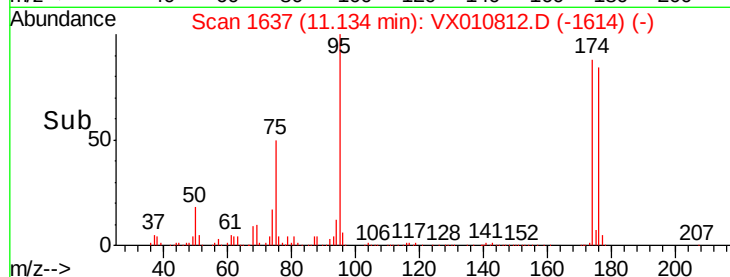
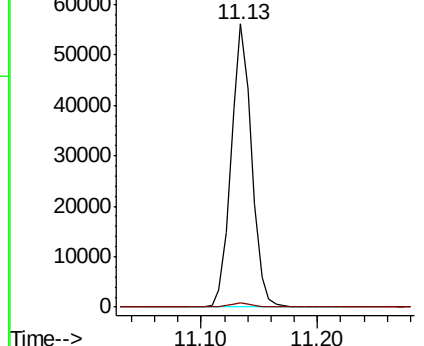
75 100

77 1.5 22.6 67.8#



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: 62.478 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010812.D

Acq: 11 Jul 2019 17:10

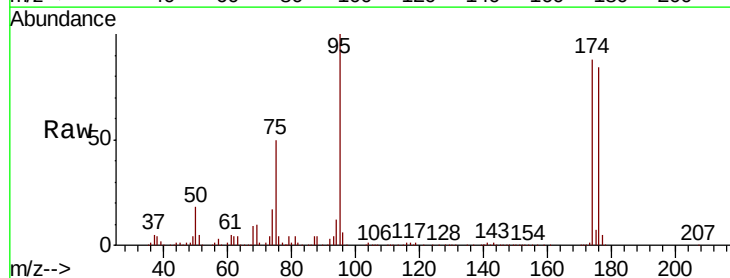
Tgt Ion: 75 Resp: 68589

Ion Ratio Lower Upper

75 100

53 0.0 66.1 99.1#

89 0.0 37.8 56.6#



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

