

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009009.D
 Acq On : 17 Apr 2019 13:04
 Operator : JC/SP
 Sample : K2450-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-190416

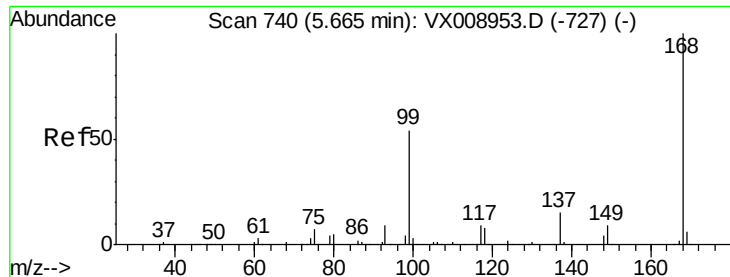
Quant Time: Apr 18 01:35:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	261481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	419393	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	365758	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	157255	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	169798	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	
35) Dibromofluoromethane	5.50	113	124052	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
50) Toluene-d8	8.71	98	521672	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
62) 4-Bromofluorobenzene	11.13	95	175431	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	432	4.025	ug/l #	49
10) Methyl Iodide	2.51	142	484	4.565	ug/l #	81
11) Tert butyl alcohol	3.02	59	1141	1.395	ug/l #	84
13) Acrolein	2.29	56	149	0.211	ug/l	91
15) Acrylonitrile	3.15	53	598	0.288	ug/l #	88
16) Acetone	2.44	43	12063	6.313	ug/l	97
17) Carbon Disulfide	2.57	76	1325	1.409	ug/l #	48
20) Methylene Chloride	2.85	84	1488	0.455	ug/l	91
25) 2-Butanone	4.69	43	2909	0.952	ug/l	95
28) Bromochloromethane	5.02	49	108	Below Cal	#	45
29) Tetrahydrofuran	5.14	42	2809	1.374	ug/l	97
31) Cyclohexane	5.66	56	5837	0.995	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20897	4.818	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25213	6.857	ug/l #	17
49) 1,4-Dioxane	7.61	88	53	0.637	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	1691	0.295	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	88929	23.159	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	88929	59.457	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

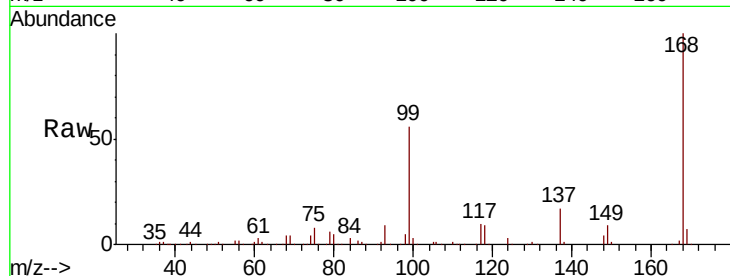
TB-01-190416

Tot Ion:168 Resp: 261481

Ion Ratio Lower Upper

168 100

99 56.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

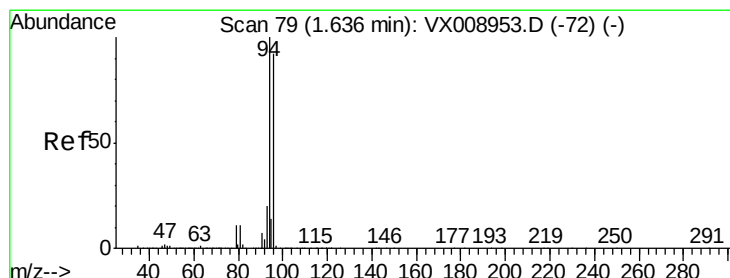
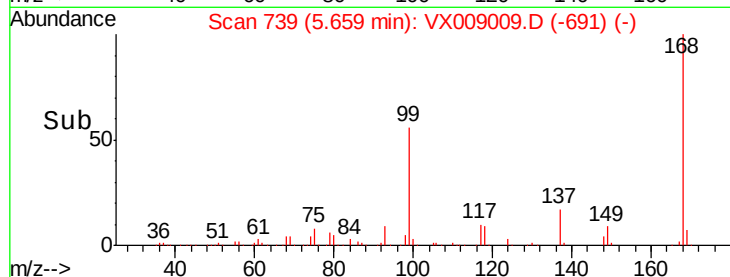
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.025 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009009.D

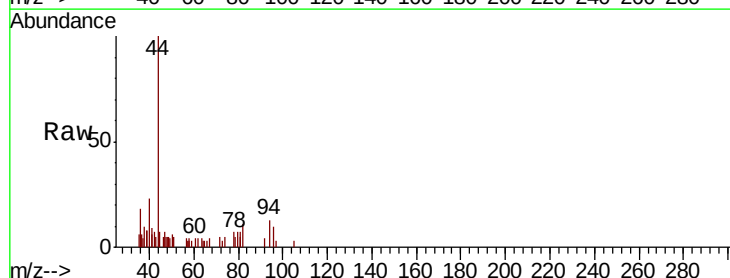
Acq: 17 Apr 2019 13:04

Tgt Ion: 94 Resp: 432

Ion Ratio Lower Upper

94 100

96 43.6 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

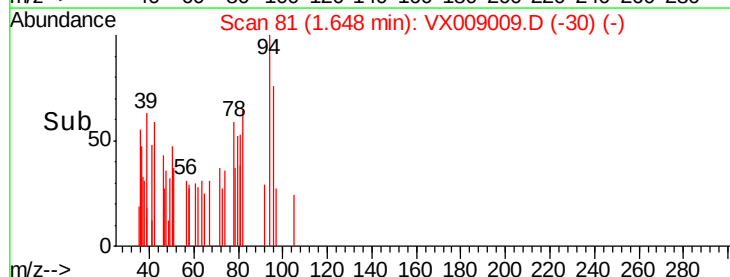
100

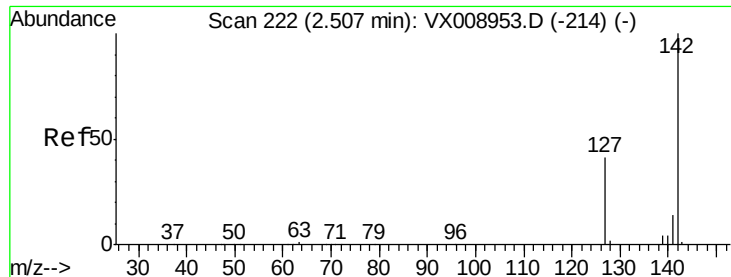
50

0

Time-->

1.60 1.65

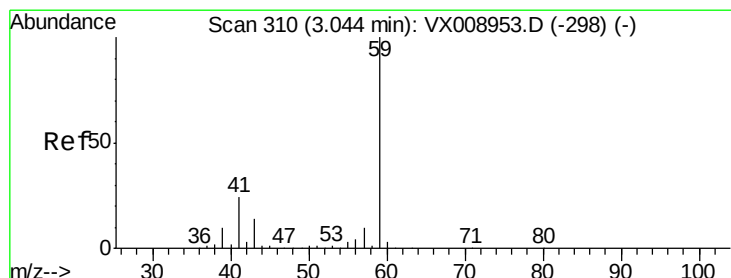
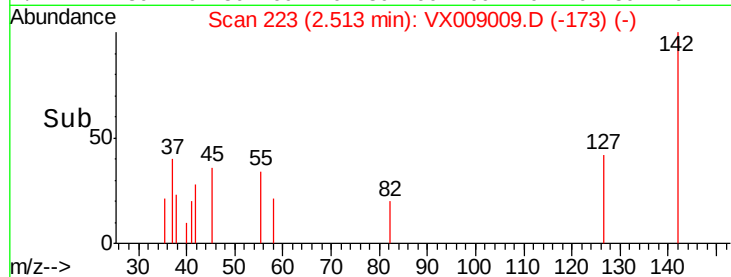
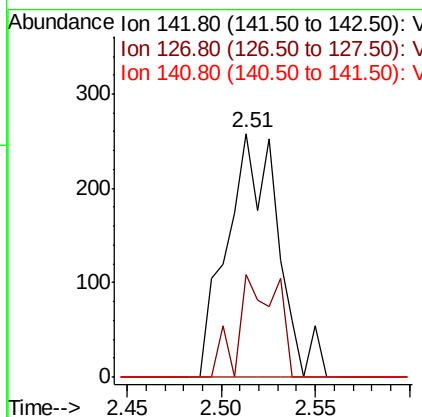
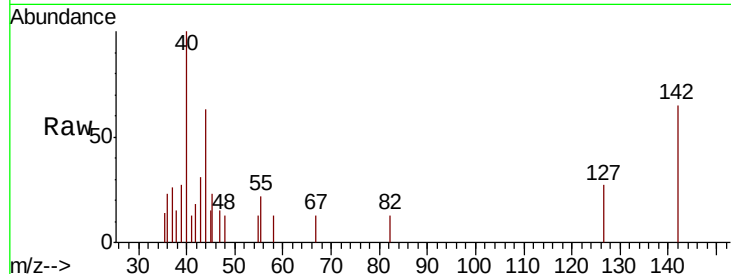




#10
Methvl Iodide
Concen: 4.565 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009009.D
Acq: 17 Apr 2019 13:04

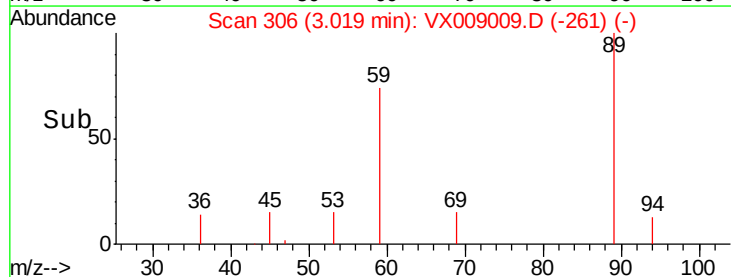
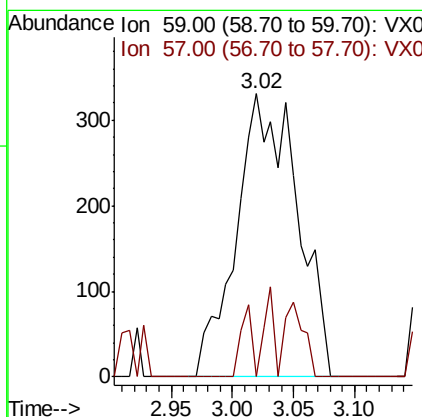
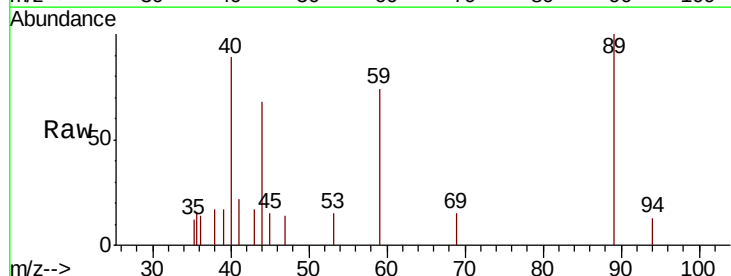
Instrument :
MSVOA_X
ClientSampled :
TB-01-190416

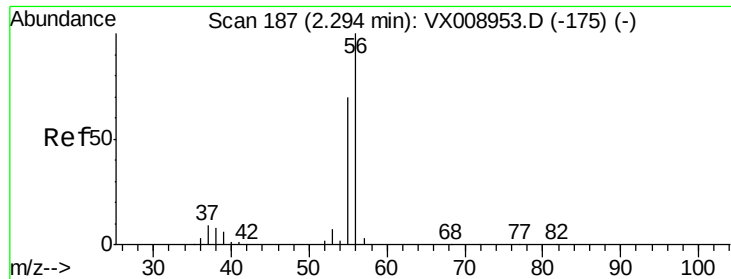
Tot Ion:142 Resp: 484
Ion Ratio Lower Upper
142 100
127 32.2 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.395 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX009009.D
Acq: 17 Apr 2019 13:04

Tgt Ion: 59 Resp: 1141
Ion Ratio Lower Upper
59 100
57 4.5 8.4 12.6#





#13

Acrolein

Concen: 0.211 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

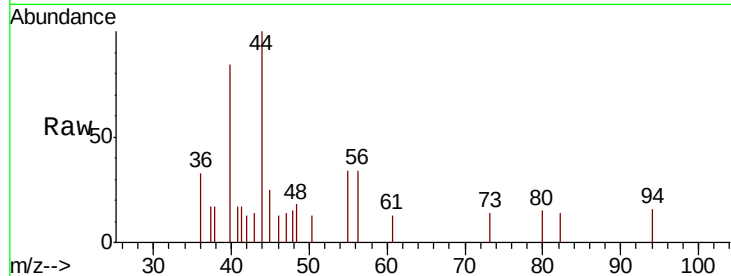
TB-01-190416

Tot Ion: 56 Resp: 149

Ion Ratio Lower Upper

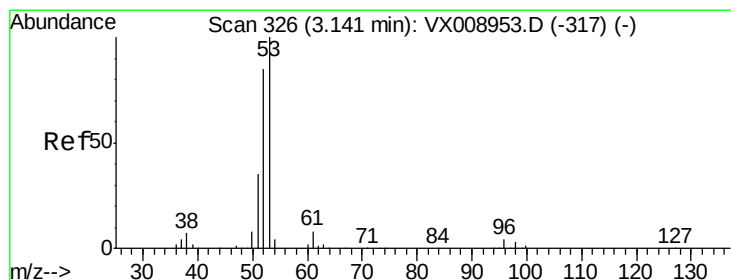
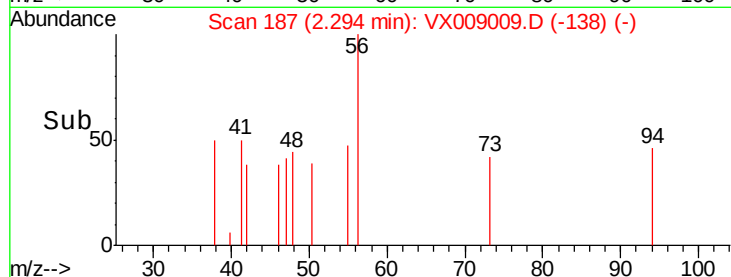
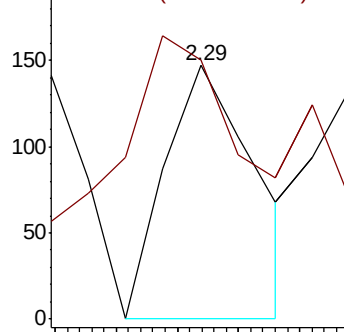
56 100

55 77.9 56.6 84.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.288 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

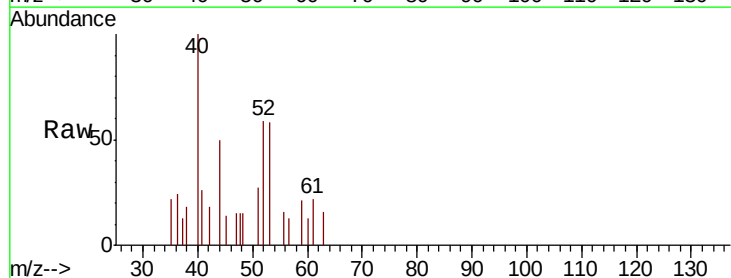
Tgt Ion: 53 Resp: 598

Ion Ratio Lower Upper

53 100

52 78.6 66.6 100.0

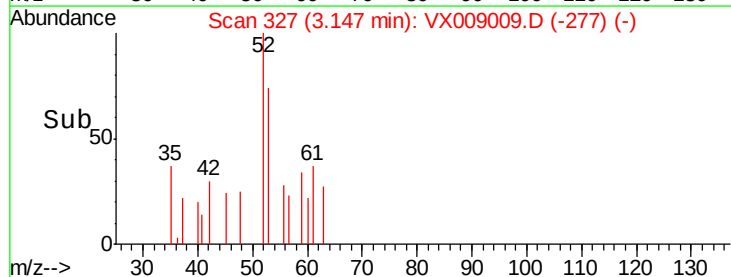
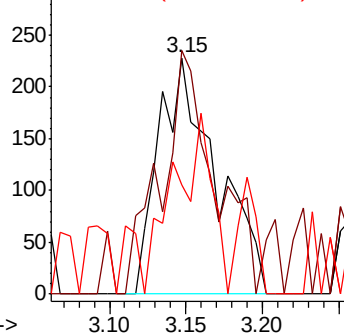
51 50.8 28.3 42.5#

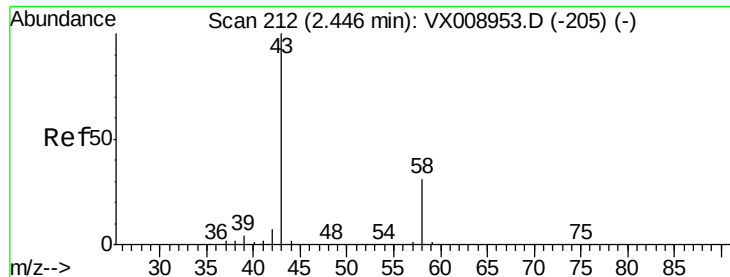


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 6.313 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

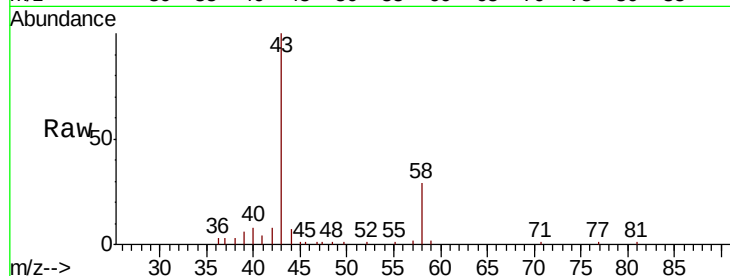
TB-01-190416

Tot Ion: 43 Resp: 12063

Ion Ratio Lower Upper

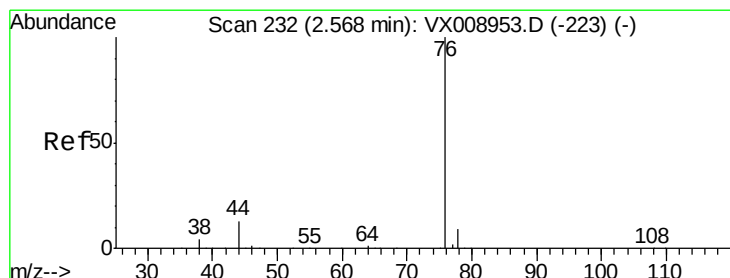
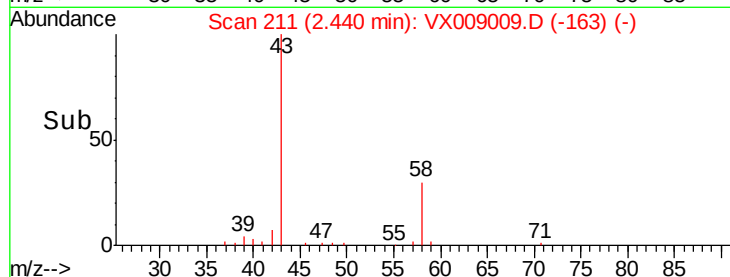
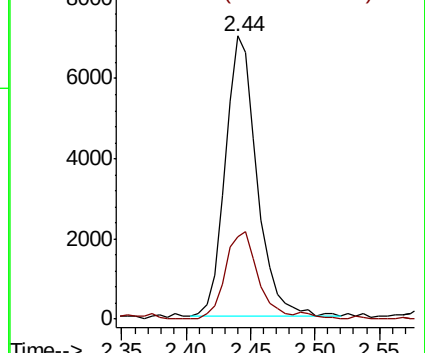
43 100

58 29.5 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.409 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009009.D

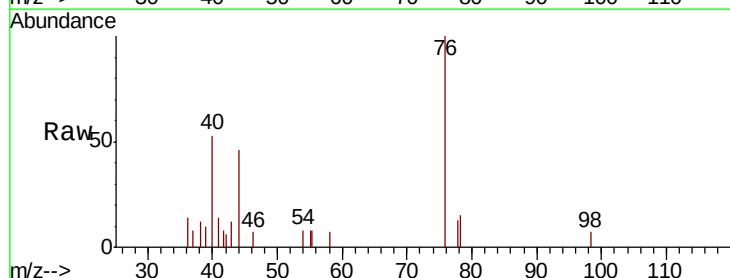
Acq: 17 Apr 2019 13:04

Tgt Ion: 76 Resp: 1325

Ion Ratio Lower Upper

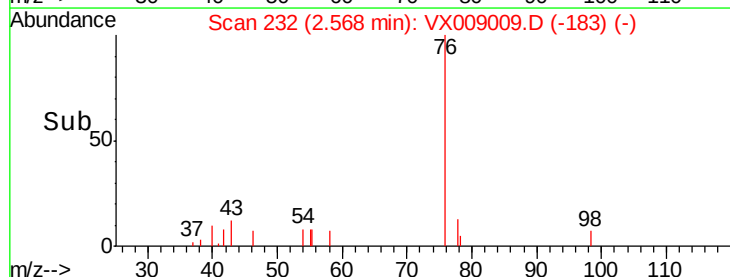
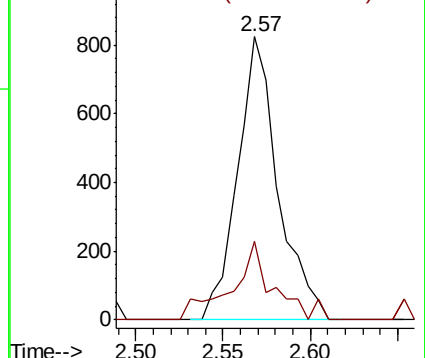
76 100

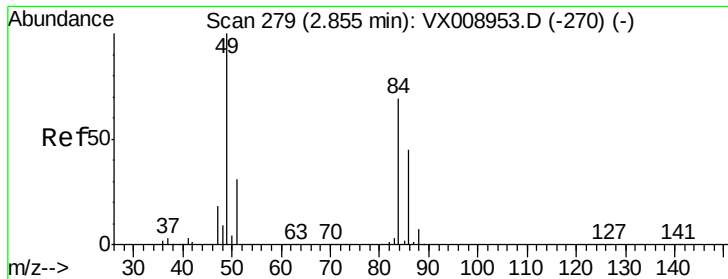
78 27.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

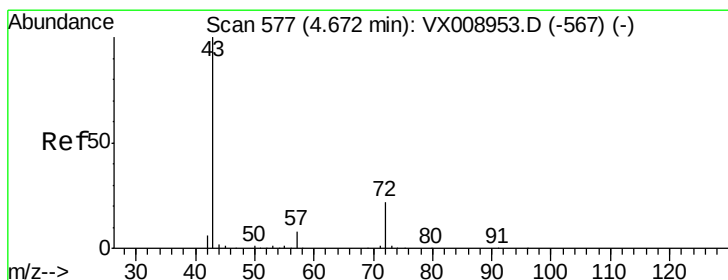
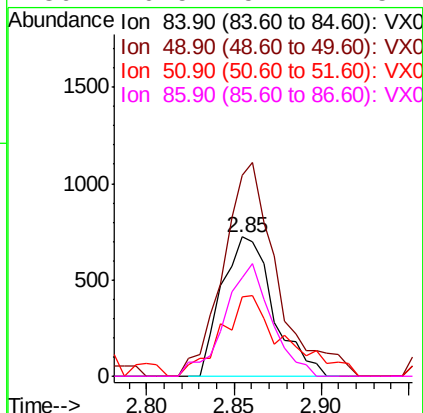
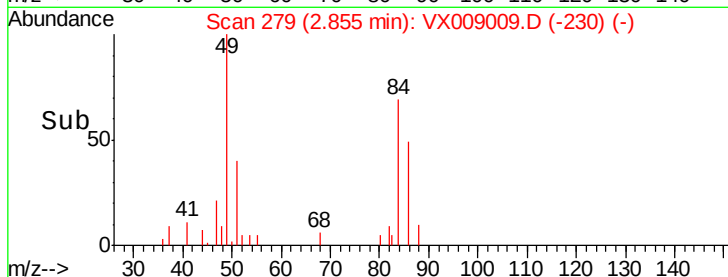
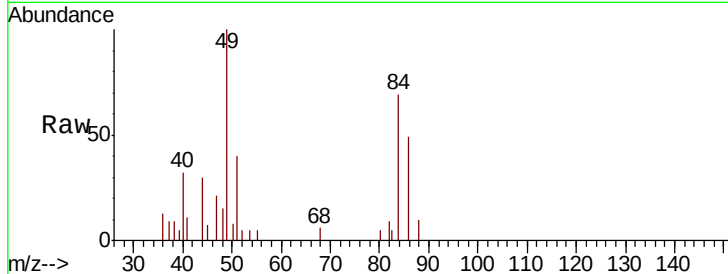




#20
Methylene Chloride
Concen: 0.455 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009009.D
Acq: 17 Apr 2019 13:04

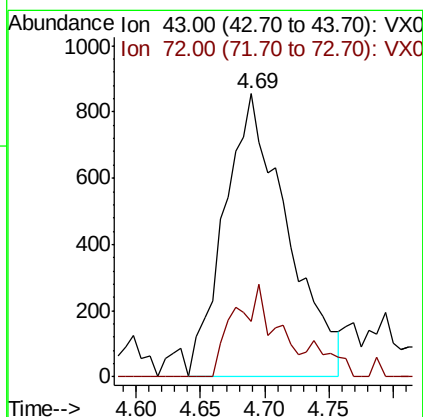
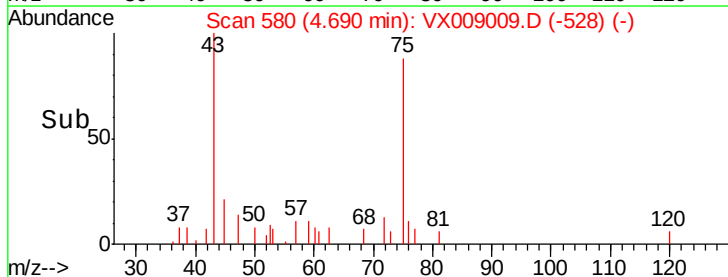
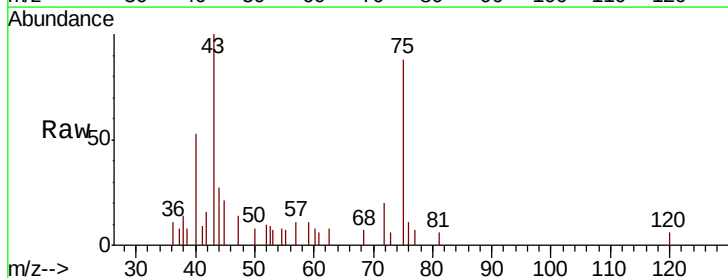
Instrument :
MSVOA_X
ClientSampleId :
TB-01-190416

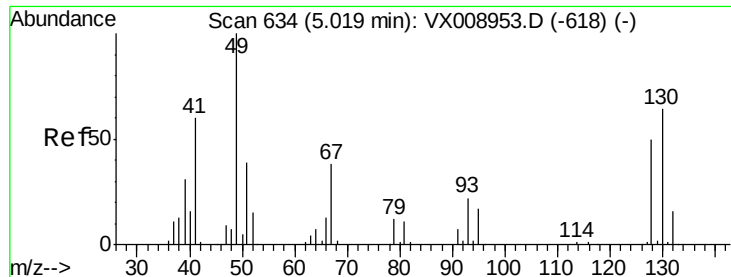
Tot Ion:	84	Resp:	1488
Ion	Ratio	Lower	Upper
84	100		
49	131.7	115.4	173.0
51	48.7	35.8	53.6
86	70.5	52.1	78.1



#25
2-Butanone
Concen: 0.952 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX009009.D
Acq: 17 Apr 2019 13:04

Tgt Ion:	43	Resp:	2909
Ion	Ratio	Lower	Upper
43	100		
72	19.5	17.5	26.3





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190416

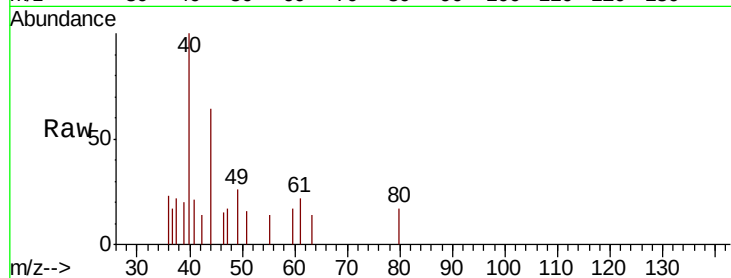
Tot Ion: 49 Resp: 108

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

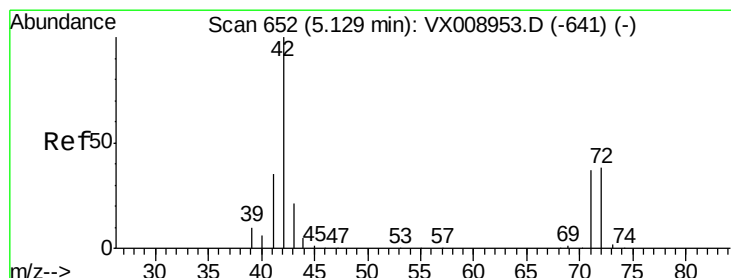
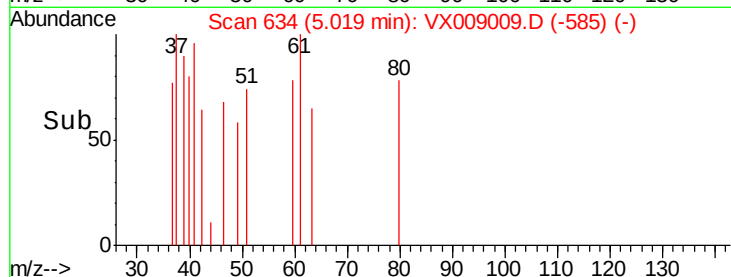
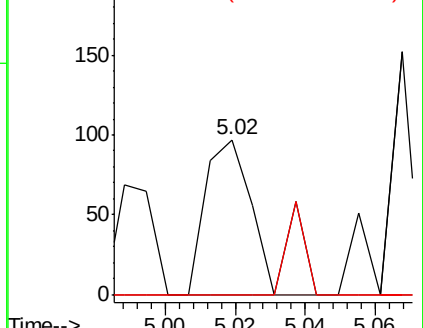
130 19.4 50.4 75.6#



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: 1.374 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

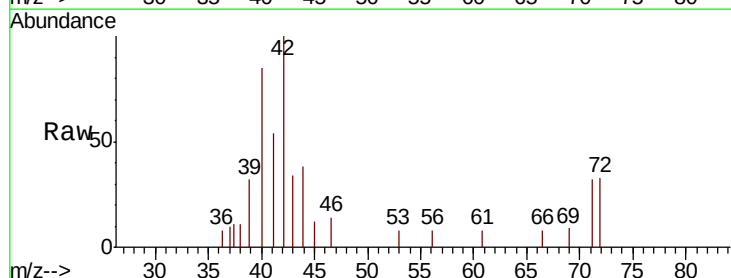
Tgt Ion: 42 Resp: 2809

Ion Ratio Lower Upper

42 100

72 39.0 30.6 45.8

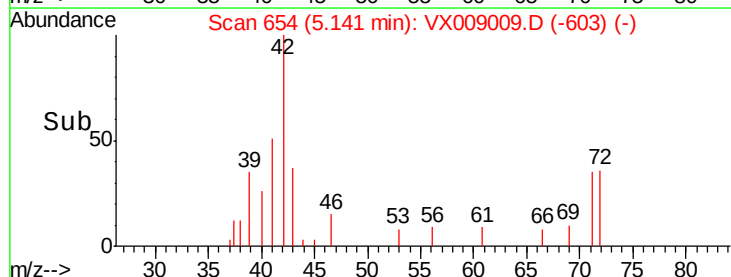
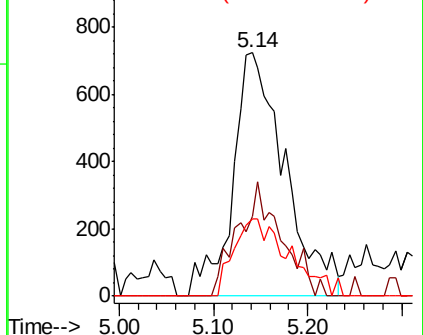
71 33.7 28.8 43.2

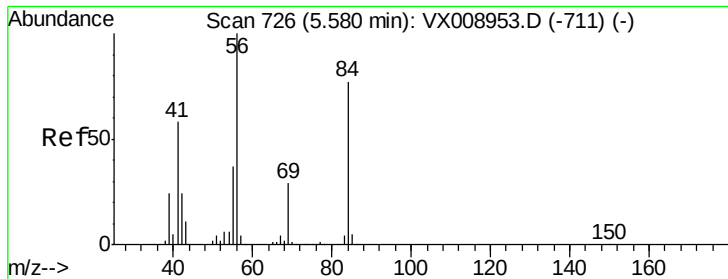


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

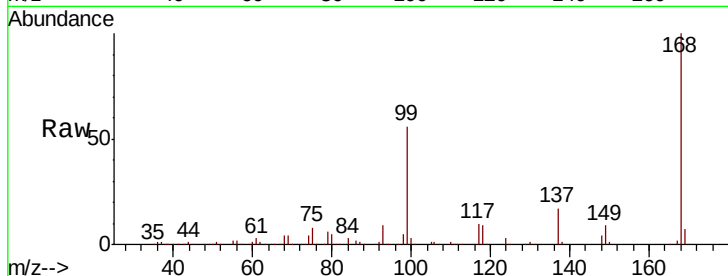




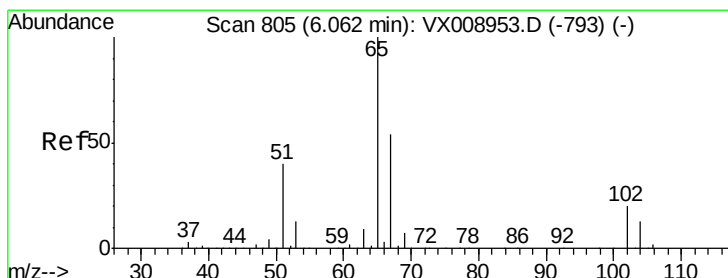
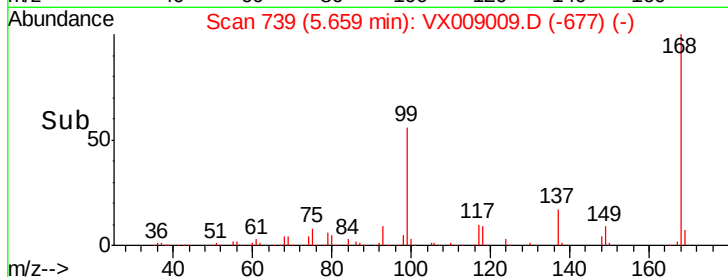
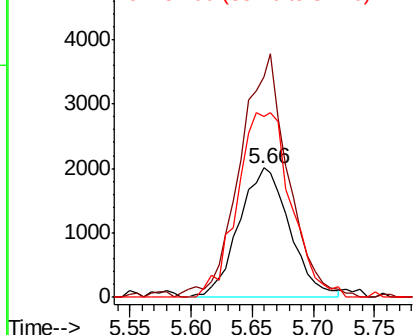
#31
Cyclohexane
Concen: 0.995 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009009.D
Acq: 17 Apr 2019 13:04

Instrument :
MSVOA_X
ClientSampleId :
TB-01-190416

Tot Ion: 56 Resp: 5837
Ion Ratio Lower Upper
56 100
69 164.4 23.3 34.9#
84 140.0 61.7 92.5#

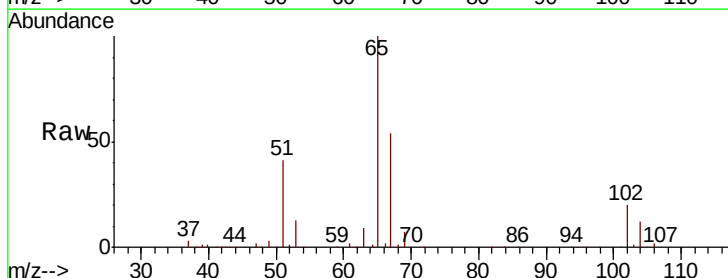


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

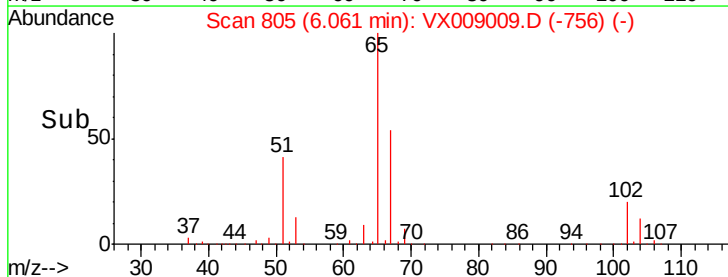
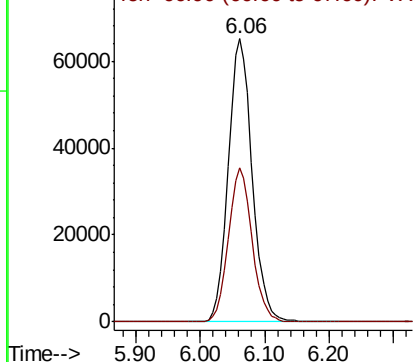


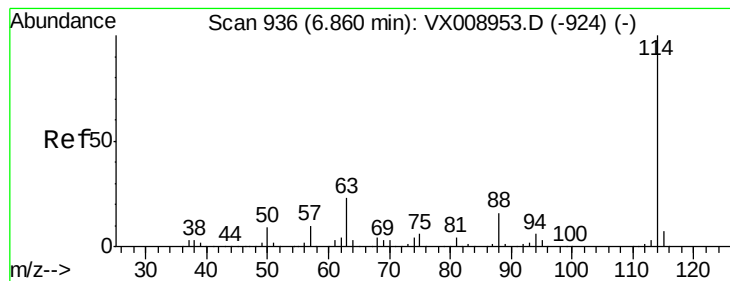
#33
1,2-Dichloroethane-d4
Concen: 46.078 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009009.D
Acq: 17 Apr 2019 13:04

Tgt Ion: 65 Resp: 169798
Ion Ratio Lower Upper
65 100
67 54.0 0.0 108.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190416

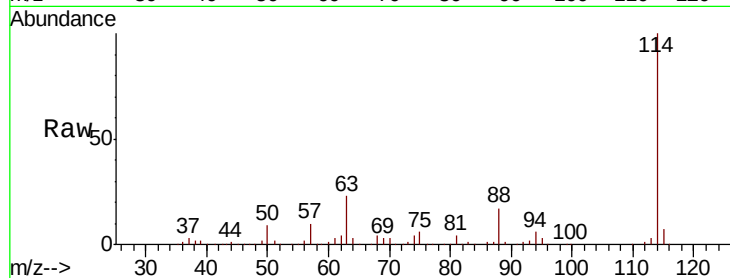
Tot Ion:114 Resp: 419393

Ion Ratio Lower Upper

114 100

63 22.6 0.0 46.0

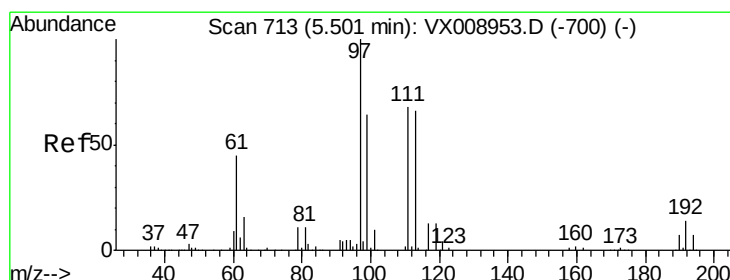
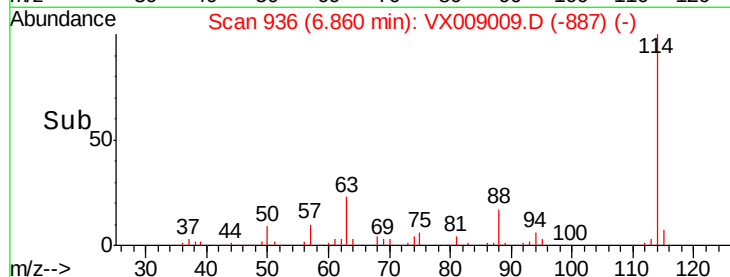
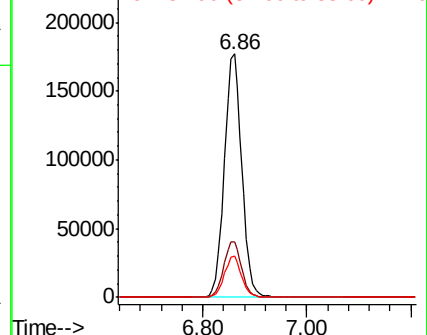
88 16.9 0.0 32.6



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



#35

Dibromofluoromethane

Concen: 46.089 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

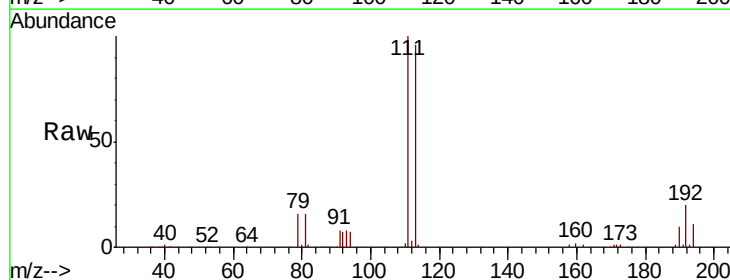
Tgt Ion:113 Resp: 124052

Ion Ratio Lower Upper

113 100

111 103.2 82.9 124.3

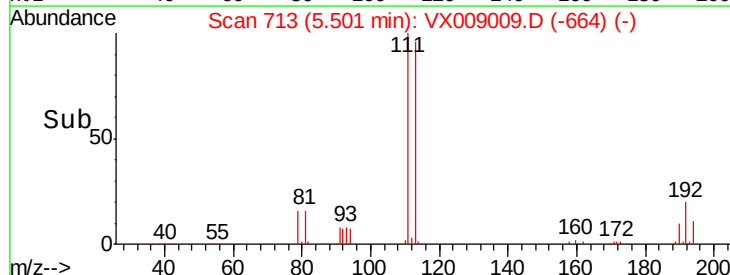
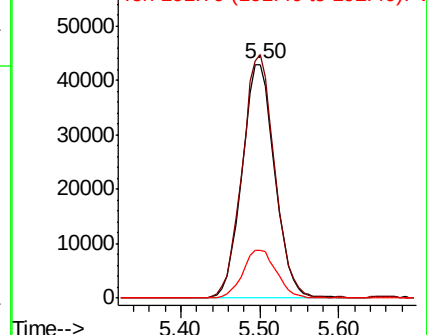
192 21.1 17.4 26.0

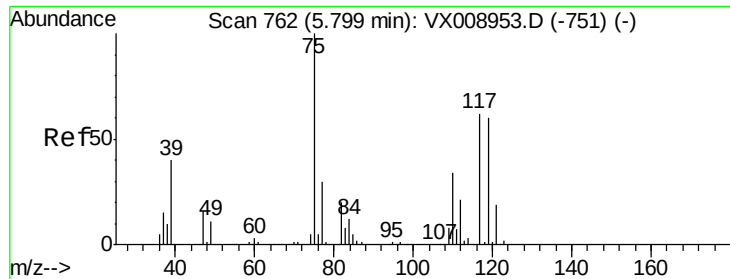


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

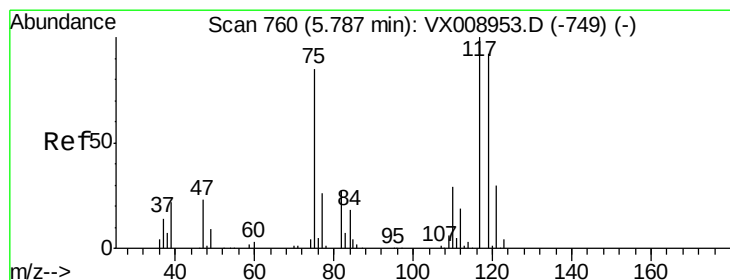
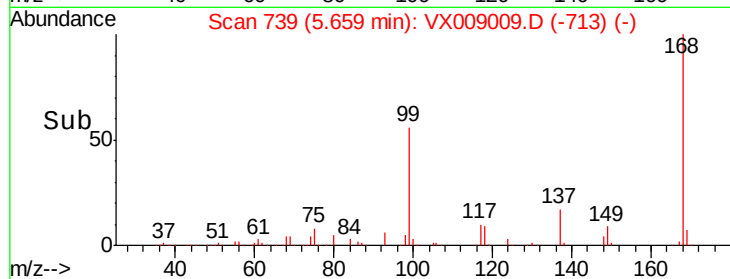
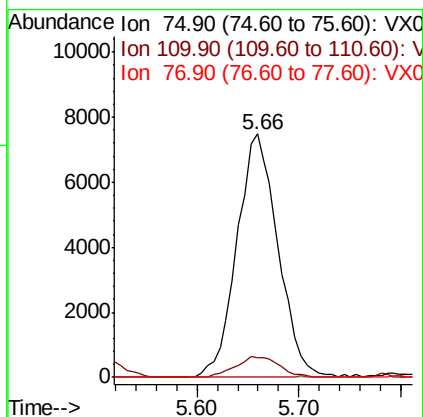
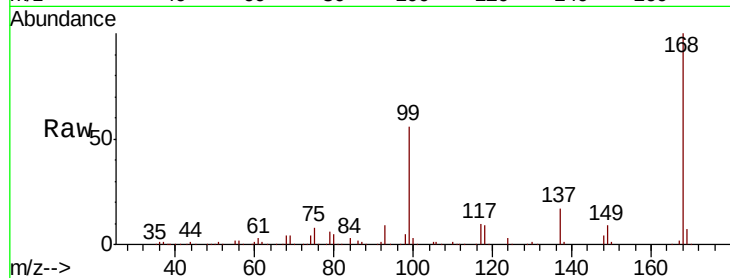




#36
 1,1-Dichloropropene
 Concen: 4.818 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009009.D
 Acq: 17 Apr 2019 13:04

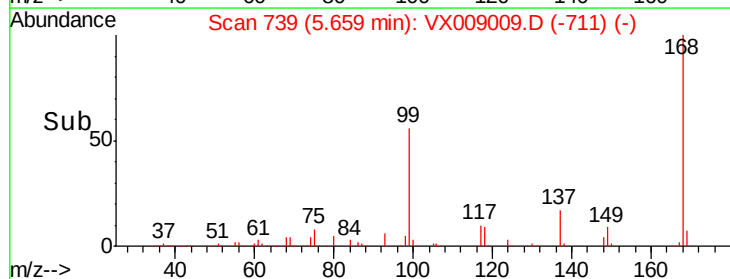
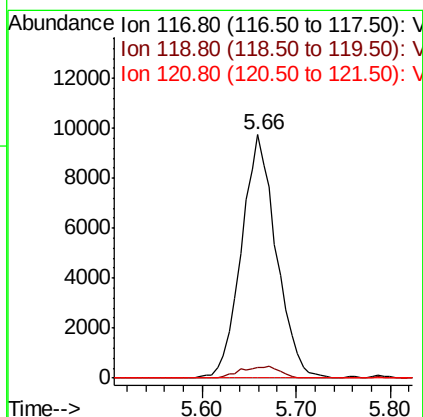
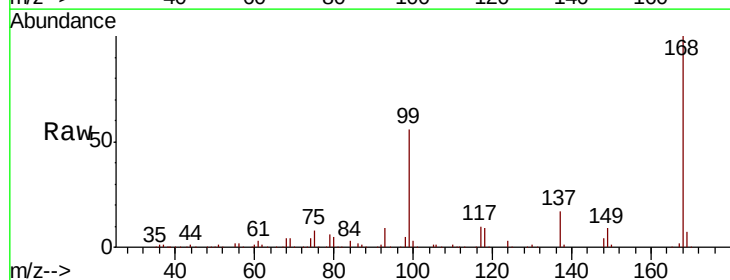
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-190416

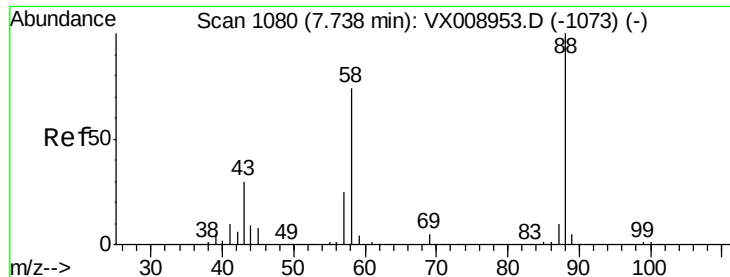
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.9	50.7#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.857 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX009009.D
 Acq: 17 Apr 2019 13:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	73.8	110.8#
121	0.0	23.6	35.4#





#49

1,4-Dioxane

Concen: 0.637 ug/l

RT: 7.61 min Scan# 1059

Delta R.T. -0.13 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

Instrument :

MSVOA_X

ClientSampled :

TB-01-190416

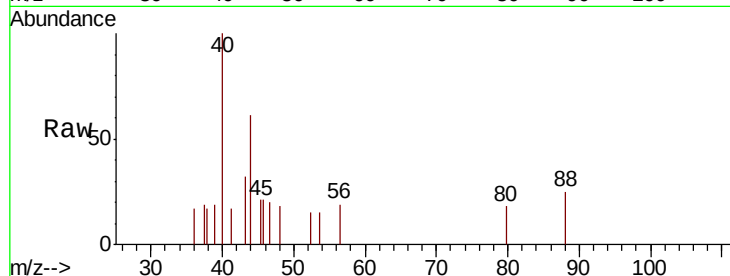
Tot Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 390.6 29.3 43.9#

58 35.8 62.6 93.8#



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

200

150

100

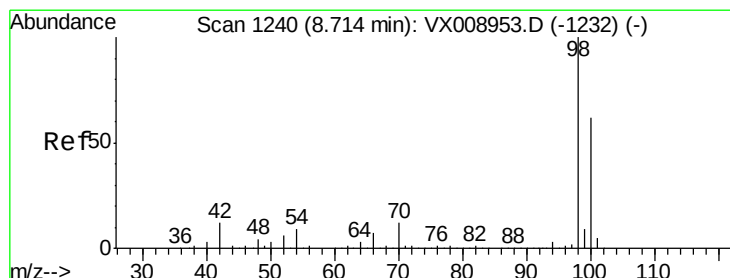
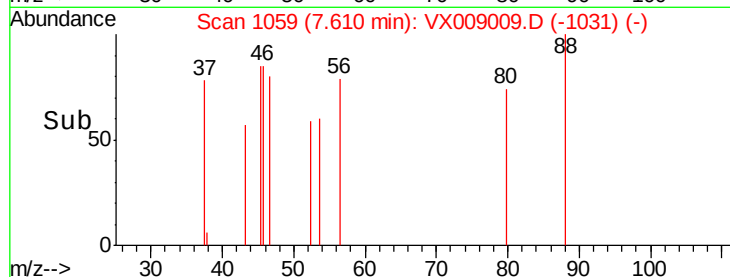
50

0

7.58 7.60 7.62 7.64

7.61

Time-->



#50

Toluene-d8

Concen: 48.599 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009009.D

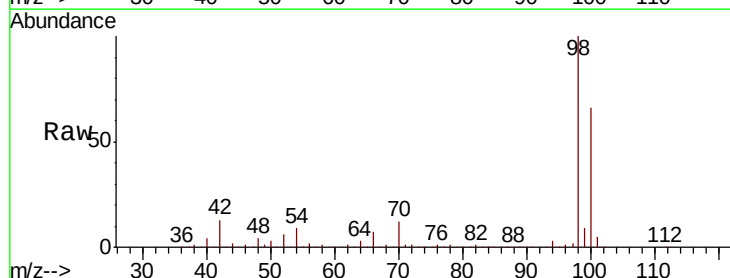
Acq: 17 Apr 2019 13:04

Tgt Ion: 98 Resp: 521672

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

400000

300000

200000

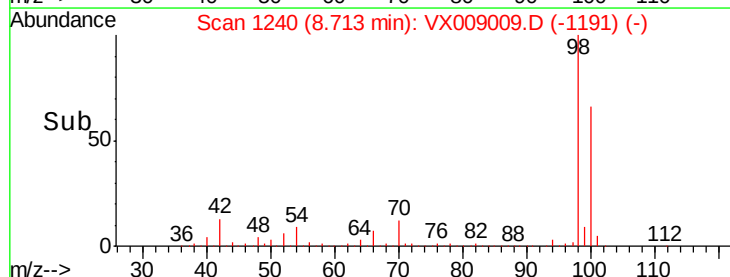
100000

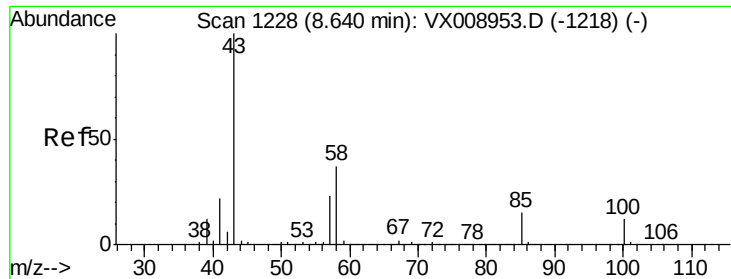
0

8.60 8.70 8.80

8.71

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.295 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

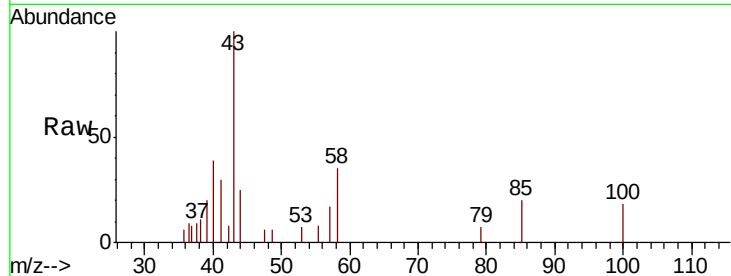
TB-01-190416

Tot Ion: 43 Resp: 1691

Ion Ratio Lower Upper

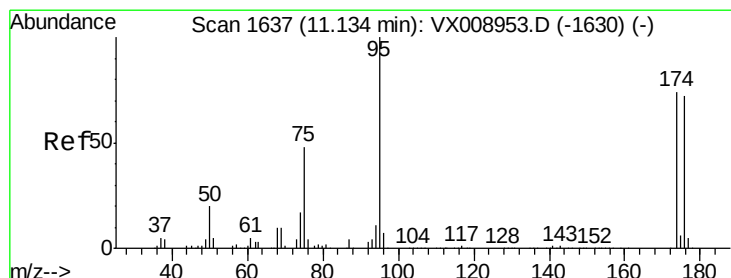
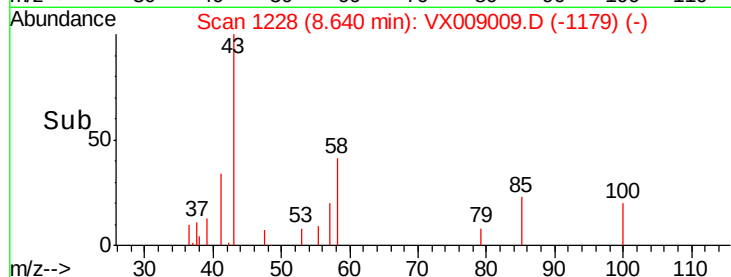
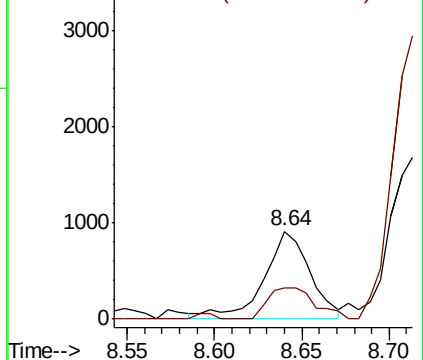
43 100

58 36.0 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.298 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

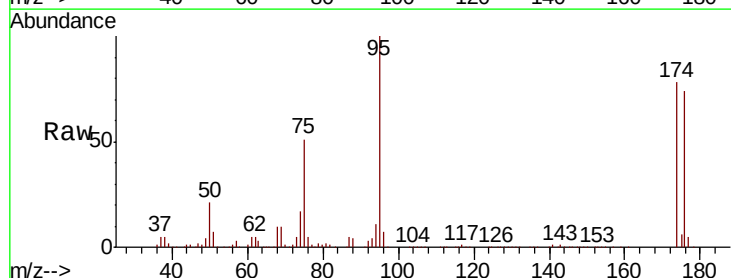
Tgt Ion: 95 Resp: 175431

Ion Ratio Lower Upper

95 100

174 80.1 0.0 159.6

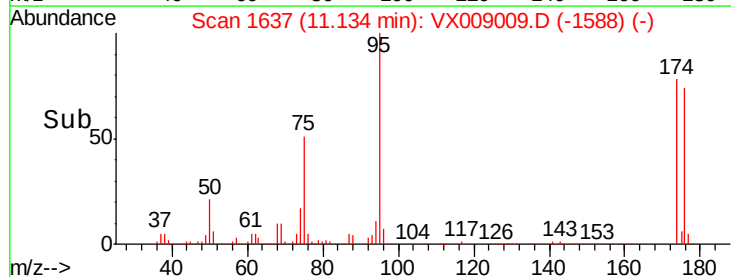
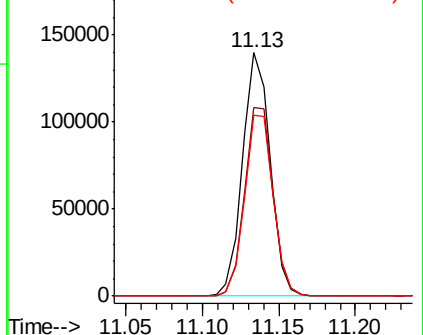
176 77.1 0.0 154.8

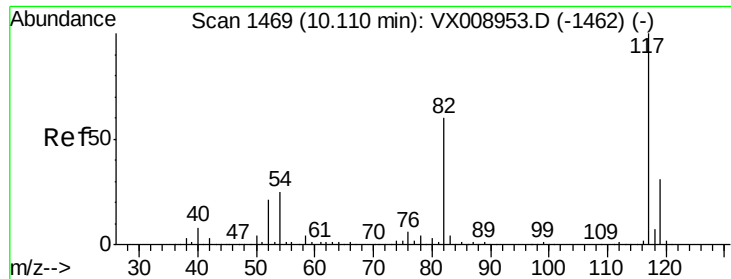


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

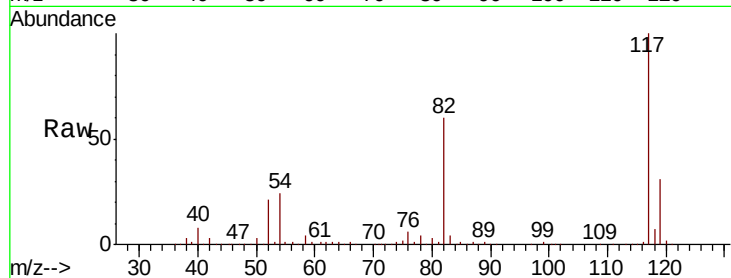




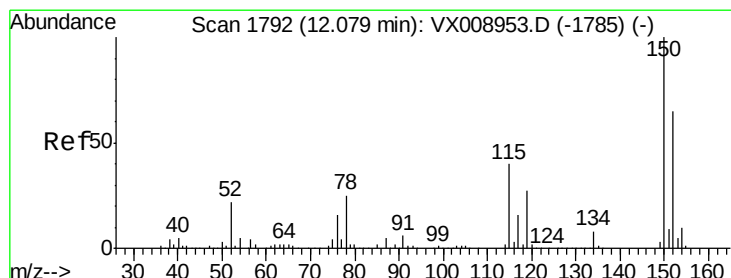
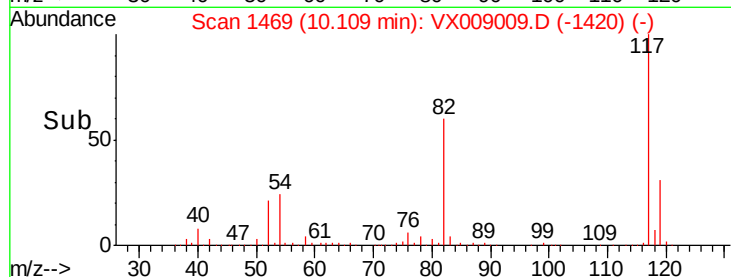
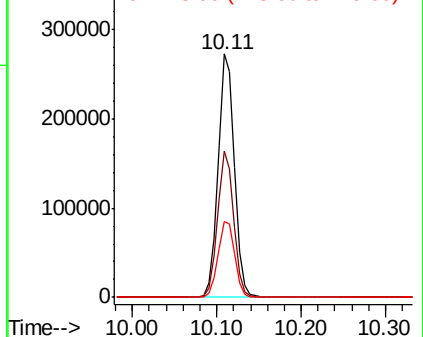
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009009.D
Acq: 17 Apr 2019 13:04

Instrument :
MSVOA_X
ClientSampleId :
TB-01-190416

Tot Ion:117 Resp: 365758
Ion Ratio Lower Upper
117 100
82 60.0 48.2 72.4
119 31.4 25.0 37.6

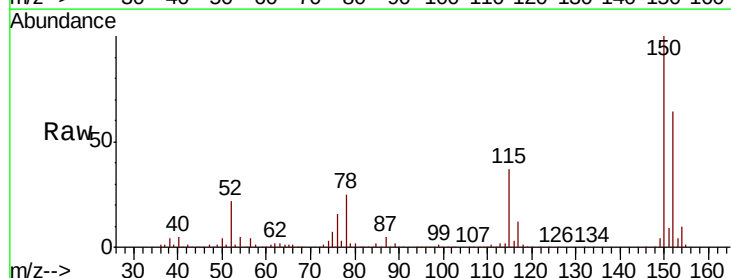


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

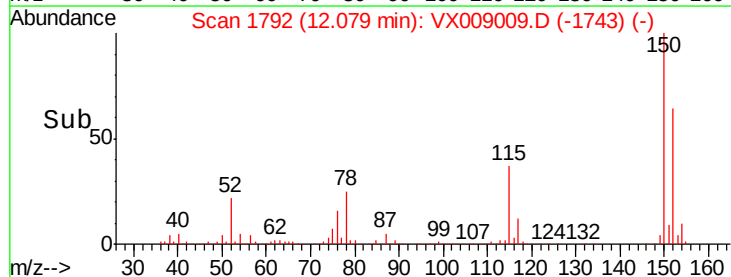
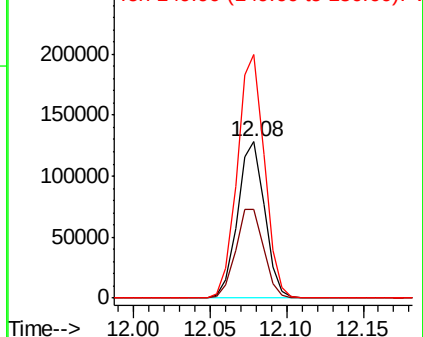


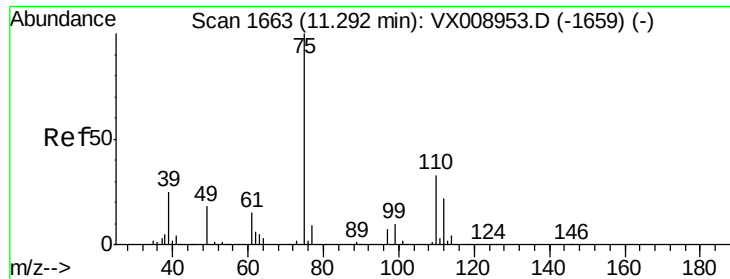
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009009.D
Acq: 17 Apr 2019 13:04

Tgt Ion:152 Resp: 157255
Ion Ratio Lower Upper
152 100
115 59.5 41.4 124.2
150 156.7 0.0 349.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.159 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

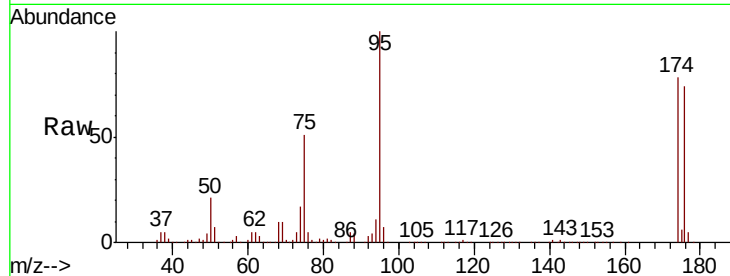
TB-01-190416

Tot Ion: 75 Resp: 88929

Ion Ratio Lower Upper

75 100

77 1.2 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

80000

60000

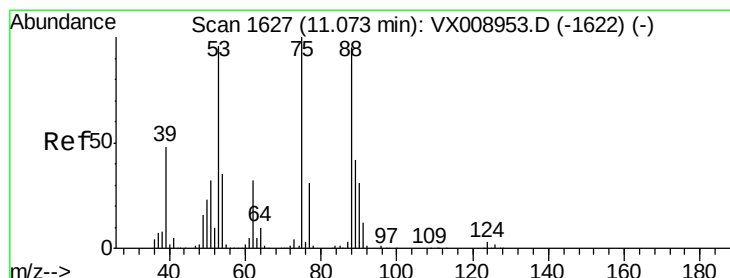
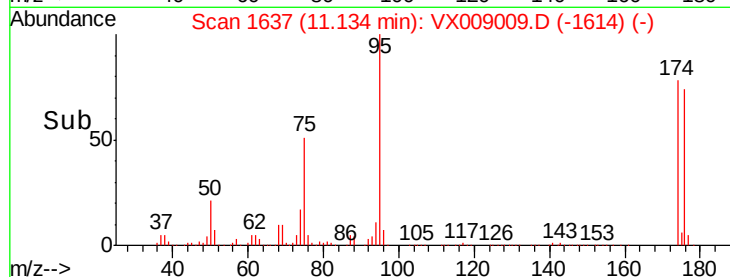
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 59.457 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009009.D

Acq: 17 Apr 2019 13:04

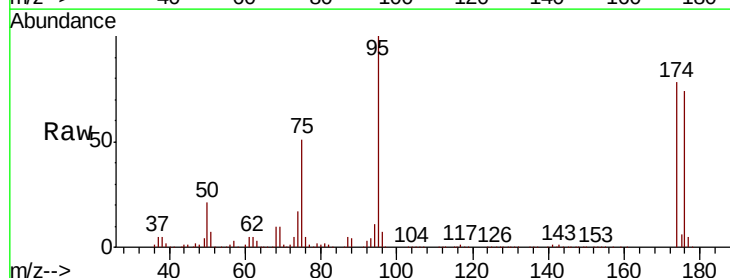
Tgt Ion: 75 Resp: 88929

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 36.0 54.0#



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

100000

80000

60000

40000

20000

0

Time-->

11.10 11.20

