

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041819\
 Data File : VX009051.D
 Acq On : 18 Apr 2019 18:05
 Operator : JC/SP
 Sample : K2461-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PZ-01

Quant Time: Apr 19 01:39:43 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	5.67	168	232687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	380555	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	319051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134498	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	157726	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	5.50	113	115166	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
50) Toluene-d8	8.71	98	465654	47.81	ug/l	0.00
Spiked Amount			Recovery	=	95.62%	
62) 4-Bromofluorobenzene	11.13	95	149636	43.52	ug/l	0.00
Spiked Amount			Recovery	=	87.04%	

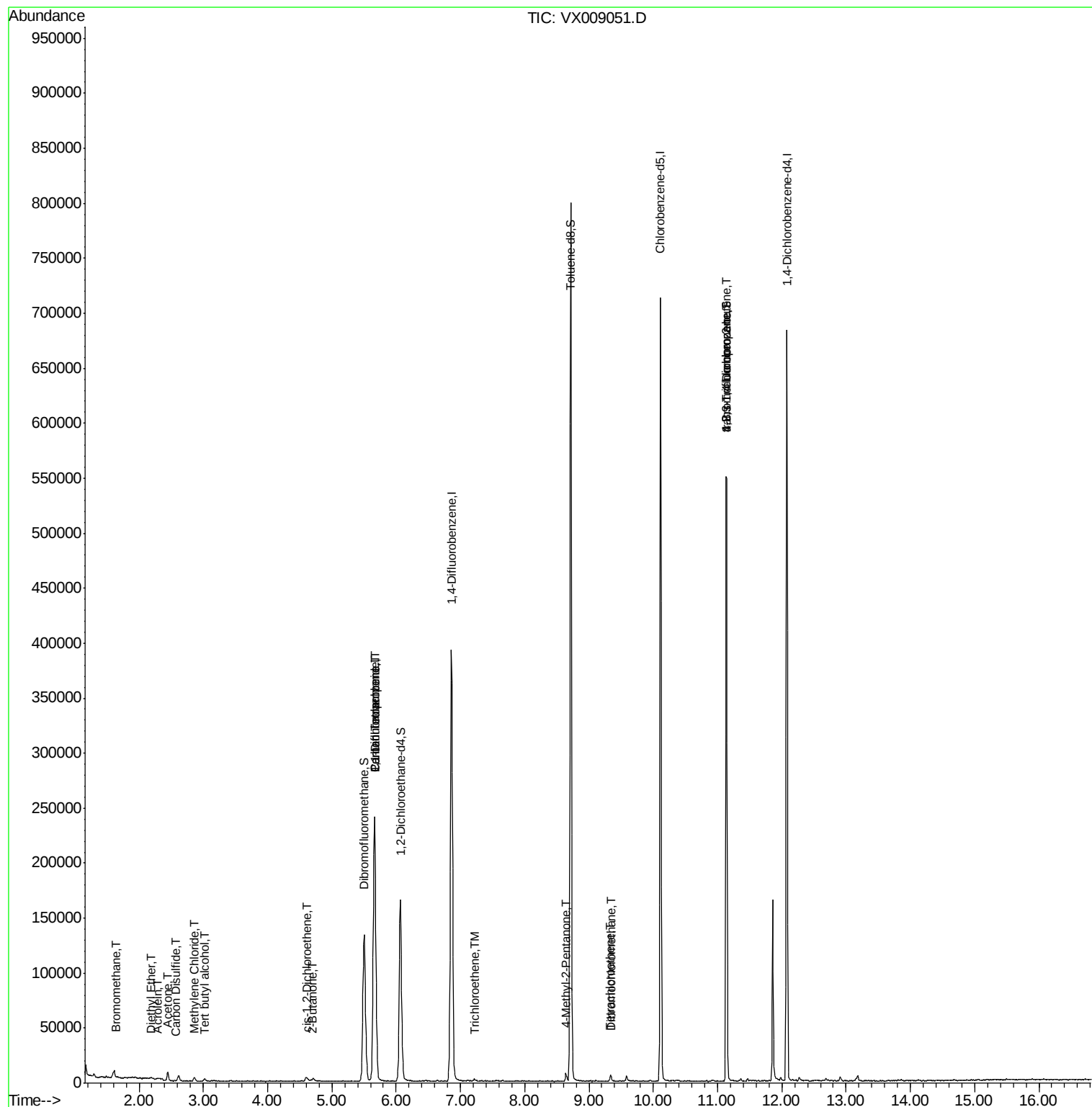
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	149	3.917	ug/l #	72
8) Diethyl Ether	2.19	74	378	0.221	ug/l	76
11) Tert butyl alcohol	3.01	59	1526	2.096	ug/l #	80
13) Acrolein	2.29	56	407	0.647	ug/l #	50
16) Acetone	2.45	43	8123	4.777	ug/l	96
17) Carbon Disulfide	2.57	76	515	1.321	ug/l #	72
20) Methylene Chloride	2.85	84	1218	0.419	ug/l #	87
25) 2-Butanone	4.69	43	685	0.252	ug/l #	54
27) cis-1,2-Dichloroethene	4.60	96	2143	0.709	ug/l	91
28) Bromochloromethane	5.01	49	60	Below Cal	#	21
36) 1,1-Dichloropropene	5.66	75	18593	4.724	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21803	6.534	ug/l #	18
44) Trichloroethene	7.22	130	653	0.230	ug/l	74
51) 4-Methyl-2-Pentanone	8.64	43	4851	0.933	ug/l	98
60) Dibromochloromethane	9.35	129	829	0.314	ug/l #	10
64) Tetrachloroethene	9.34	164	890	0.367	ug/l #	88
76) 1,2,3-Trichloropropane	11.13	75	77485	23.593	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	77485	60.571	ug/l #	11

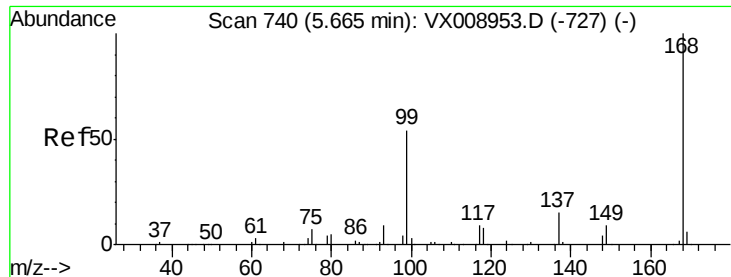
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 17 06:47:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampleId :

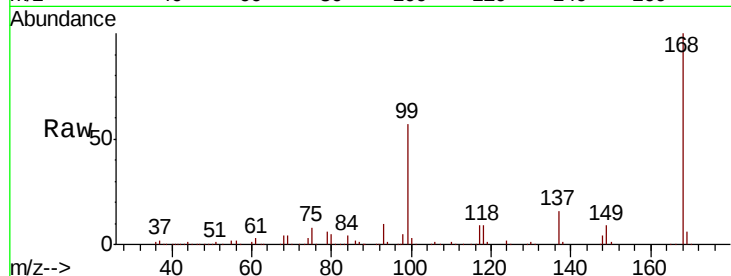
PZ-01

Tot Ion:168 Resp: 232687

Ion Ratio Lower Upper

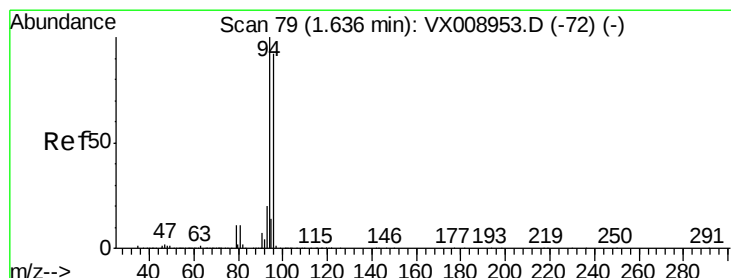
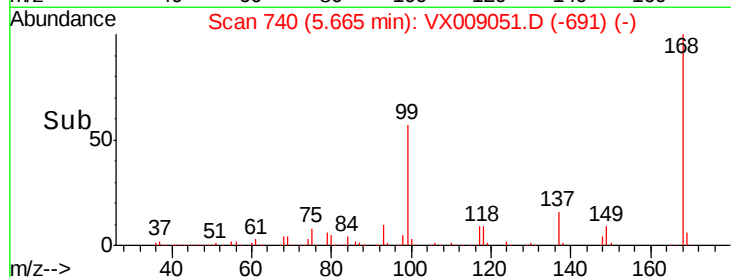
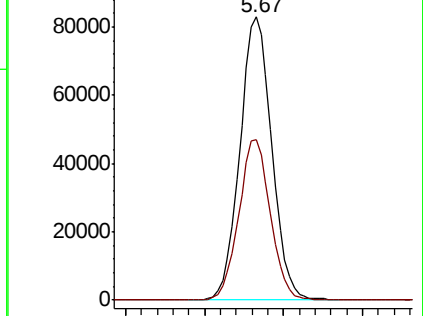
168 100

99 56.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 3.917 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009051.D

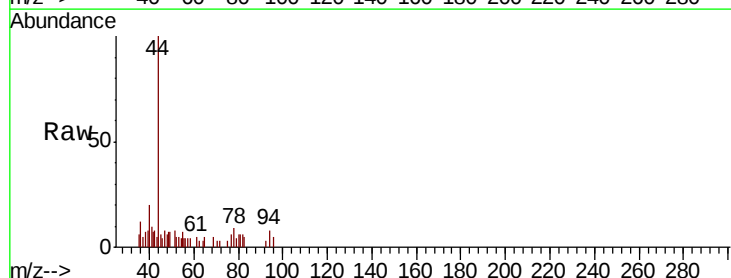
Acq: 18 Apr 2019 18:05

Tgt Ion: 94 Resp: 149

Ion Ratio Lower Upper

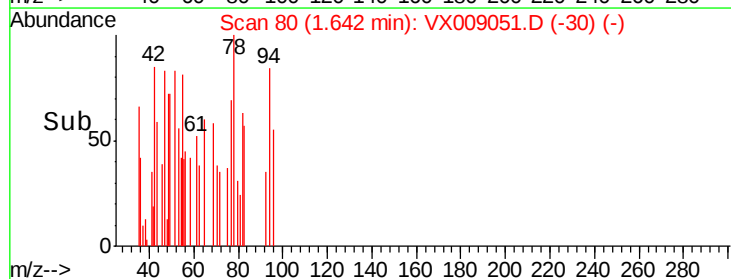
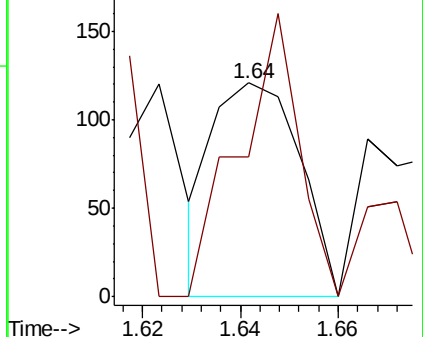
94 100

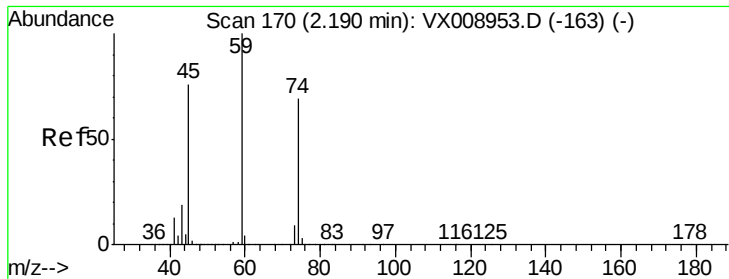
96 65.3 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.221 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampled :

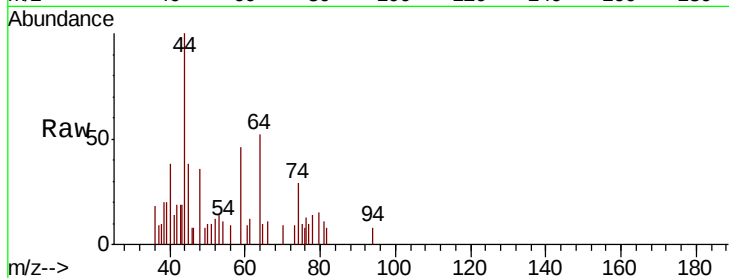
PZ-01

Tot Ion: 74 Resp: 378

Ion Ratio Lower Upper

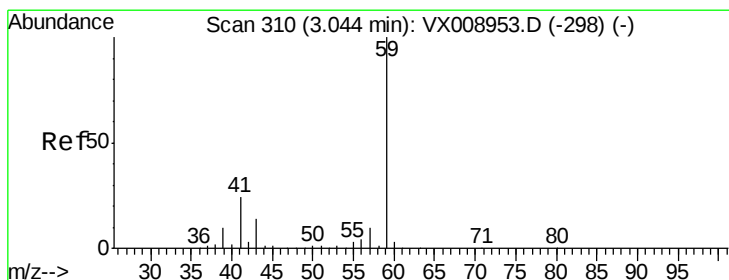
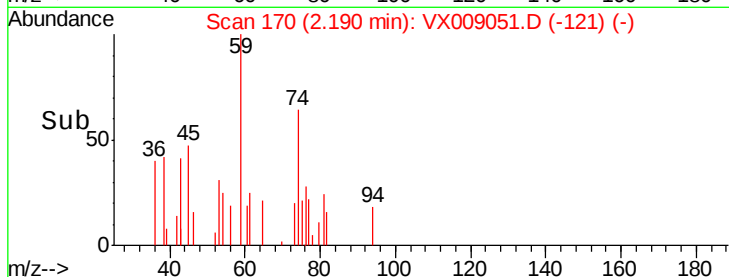
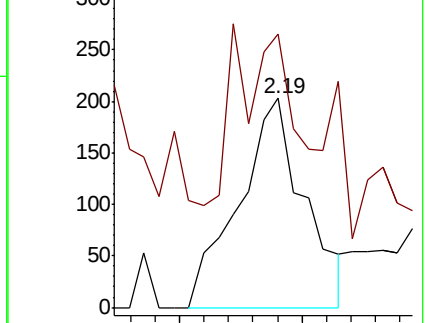
74 100

45 84.4 54.9 164.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 2.096 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.04 min

Lab File: VX009051.D

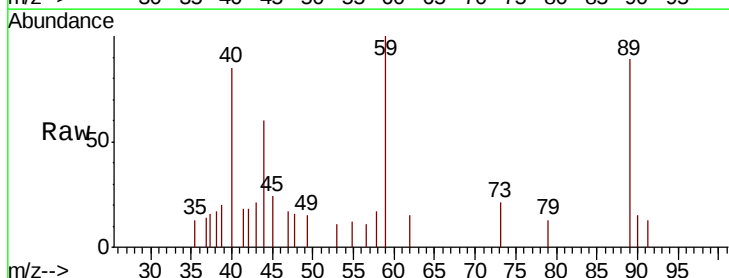
Acq: 18 Apr 2019 18:05

Tgt Ion: 59 Resp: 1526

Ion Ratio Lower Upper

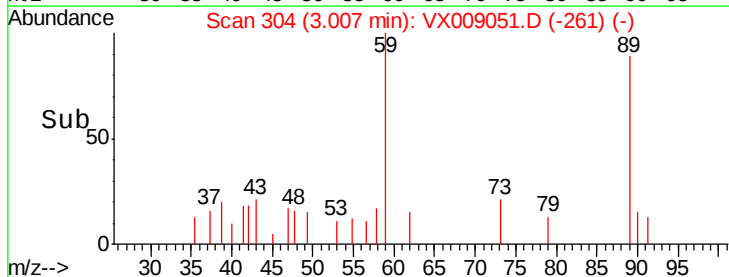
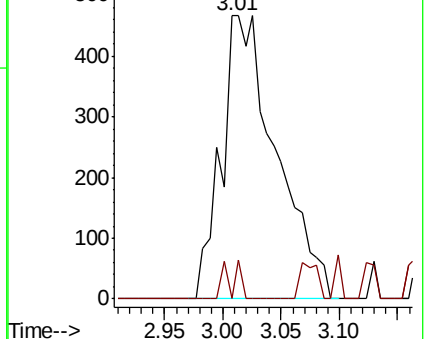
59 100

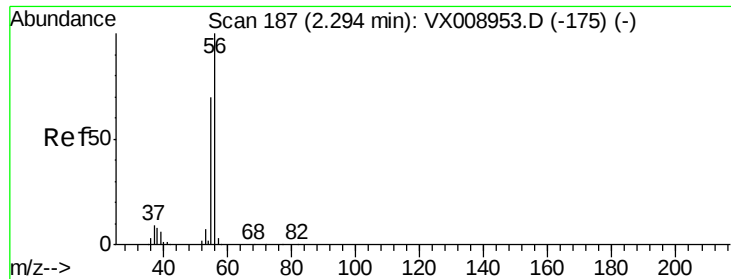
57 3.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.647 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampleId :

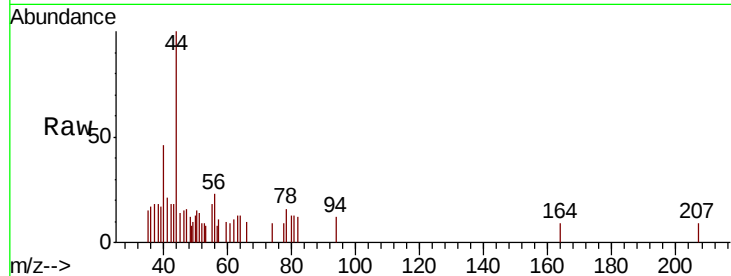
PZ-01

Tot Ion: 56 Resp: 407

Ion Ratio Lower Upper

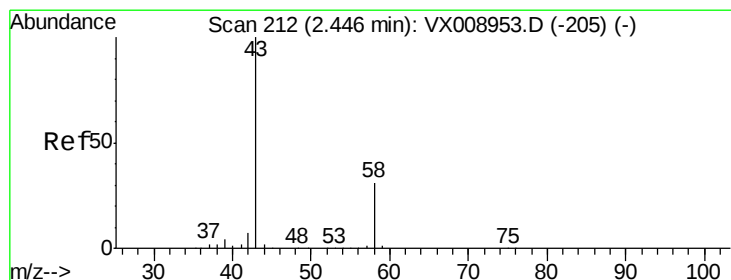
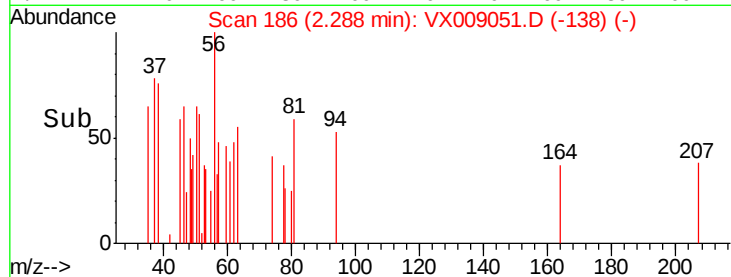
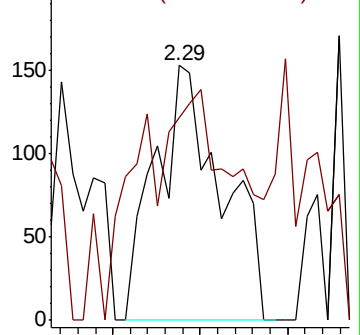
56 100

55 29.5 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 4.777 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009051.D

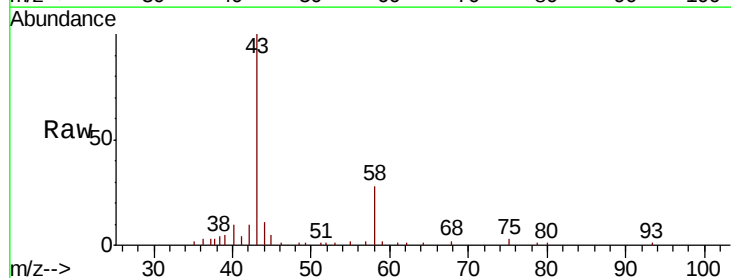
Acq: 18 Apr 2019 18:05

Tgt Ion: 43 Resp: 8123

Ion Ratio Lower Upper

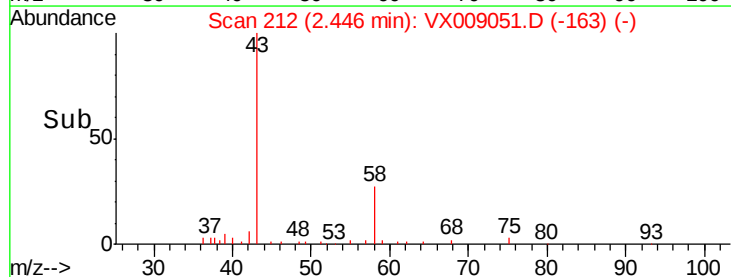
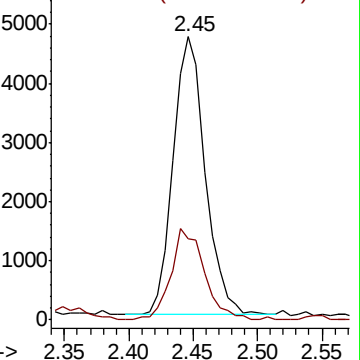
43 100

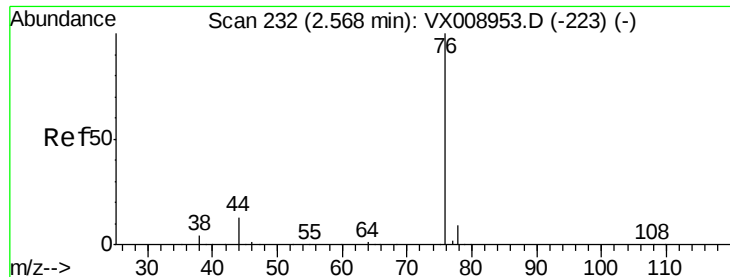
58 29.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.321 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampled :

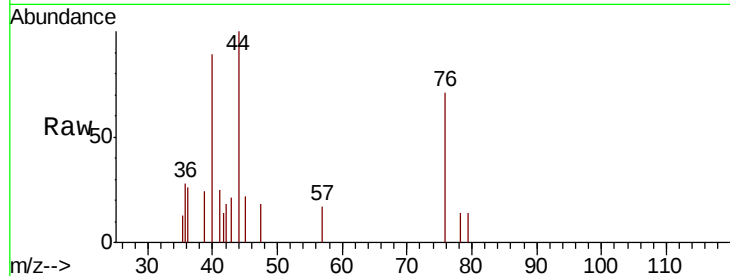
PZ-01

Tot Ion: 76 Resp: 515

Ion Ratio Lower Upper

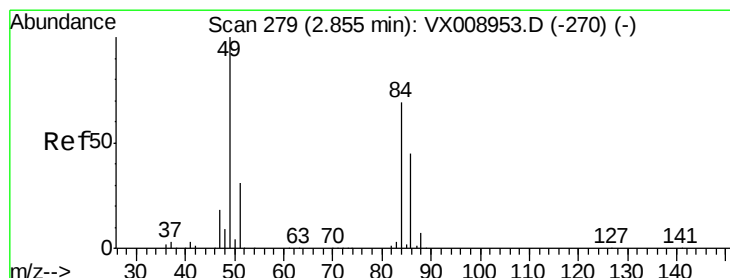
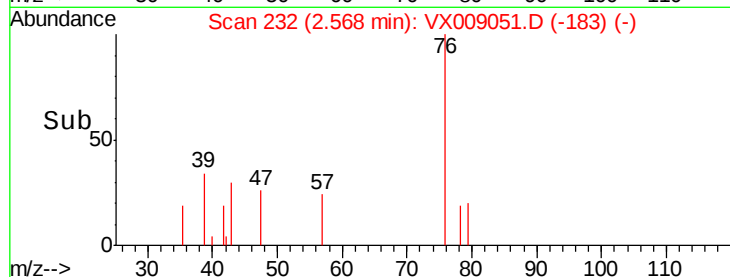
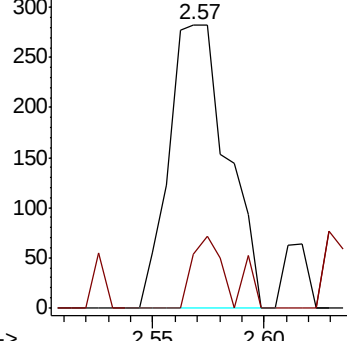
76 100

78 19.1 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: 0.419 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Tgt Ion: 84 Resp: 1218

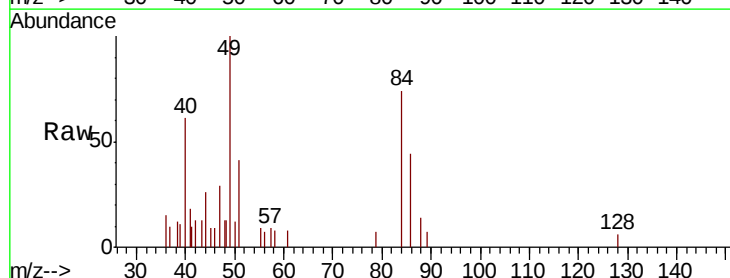
Ion Ratio Lower Upper

84 100

49 126.6 115.4 173.0

51 55.8 35.8 53.6#

86 59.1 52.1 78.1

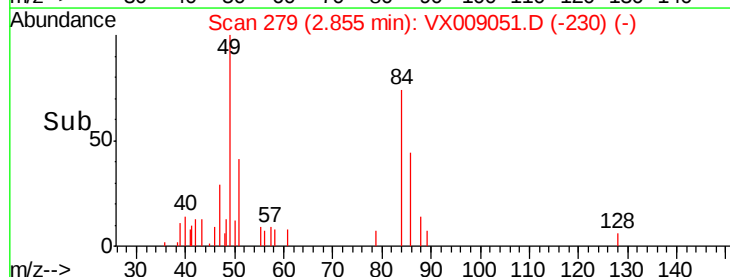
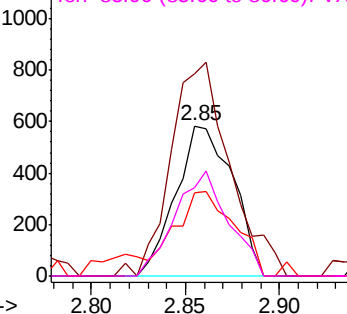


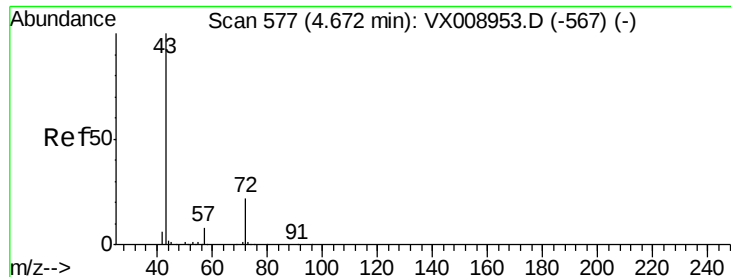
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.252 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampled :

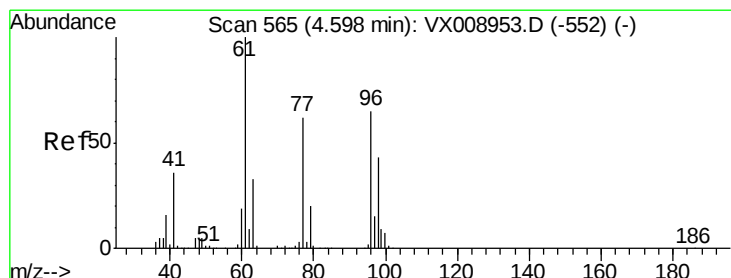
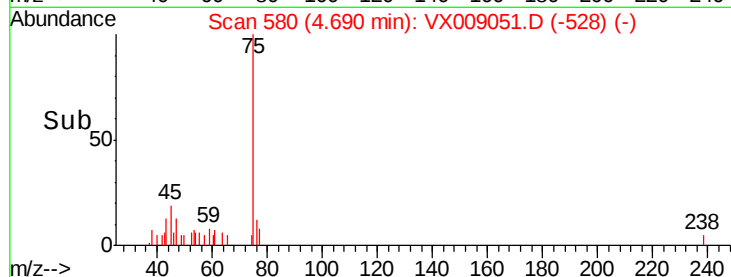
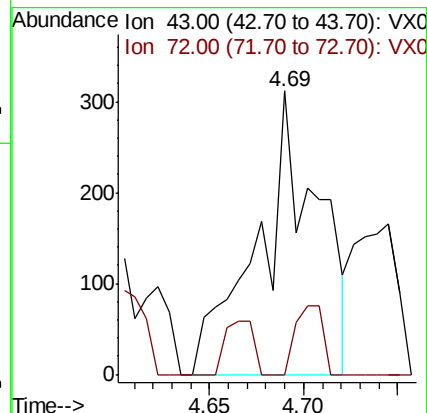
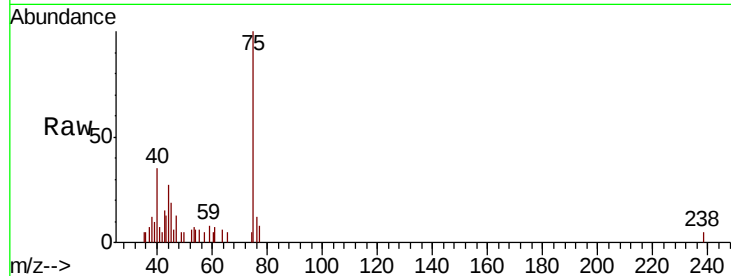
PZ-01

Tot Ion: 43 Resp: 685

Ion Ratio Lower Upper

43 100

72 0.0 17.5 26.3#



#27

cis-1,2-Dichloroethene

Concen: 0.709 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

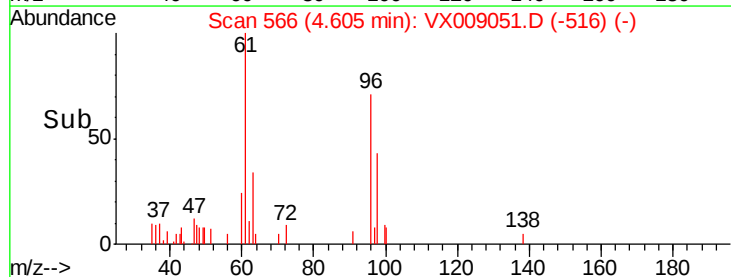
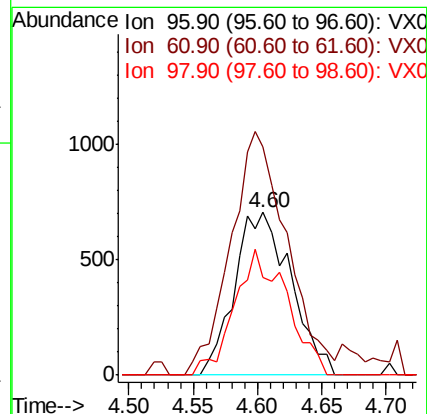
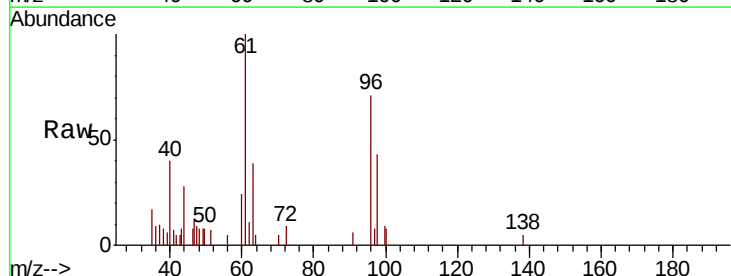
Tgt Ion: 96 Resp: 2143

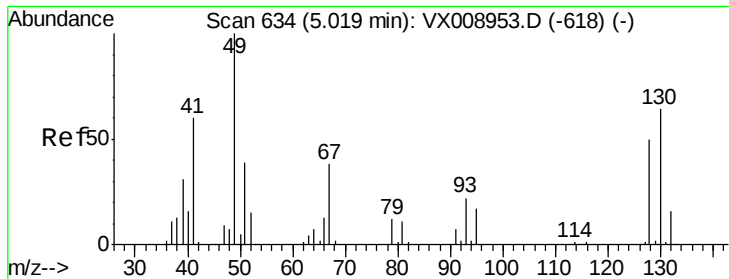
Ion Ratio Lower Upper

96 100

61 149.7 0.0 322.0

98 71.7 0.0 128.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :
MSVOA_X
ClientSampled :
PZ-01

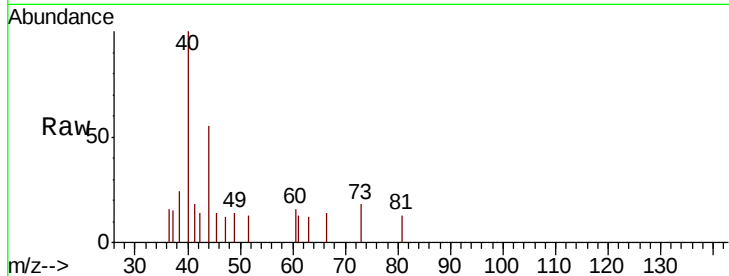
Tot Ion: 49 Resp: 60

Ion Ratio Lower Upper

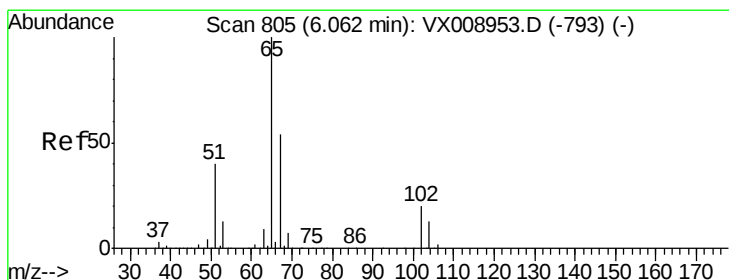
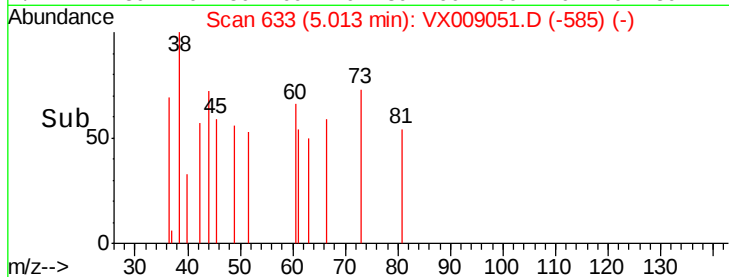
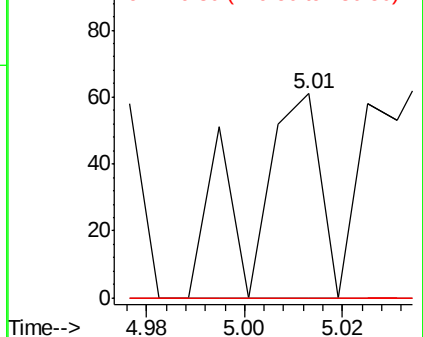
49 100

129 0.0 0.0 3.6

130 0.0 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



#33

1,2-Dichloroethane-d4

Concen: 48.099 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009051.D

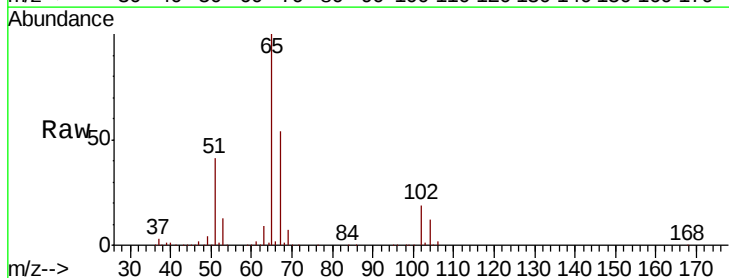
Acq: 18 Apr 2019 18:05

Tgt Ion: 65 Resp: 157726

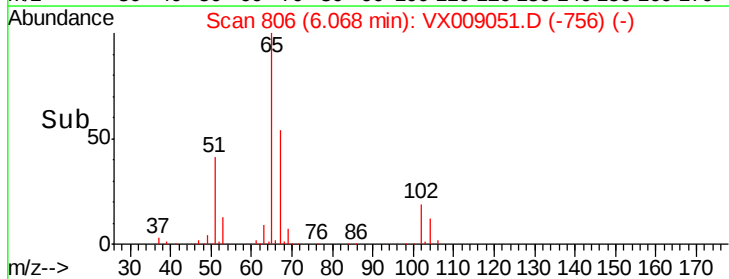
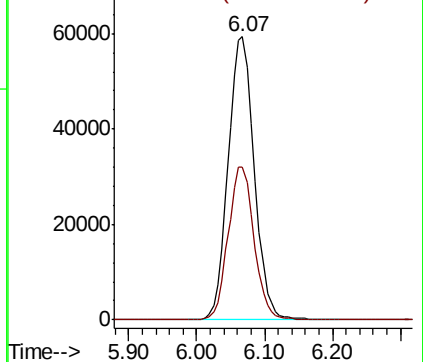
Ion Ratio Lower Upper

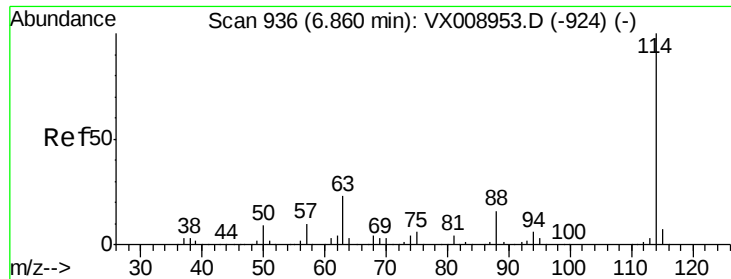
65 100

67 53.6 0.0 108.6



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

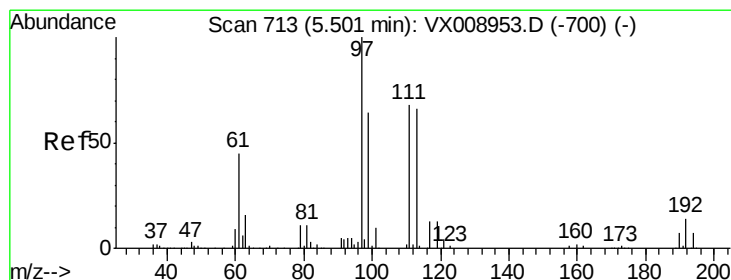
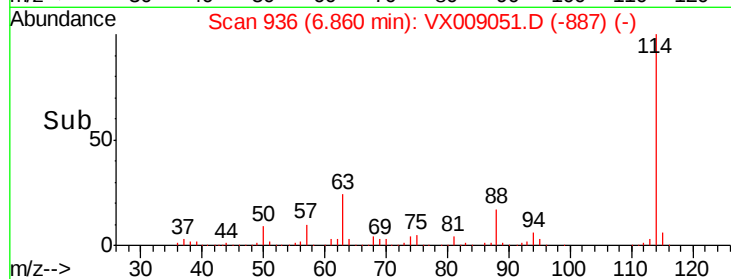
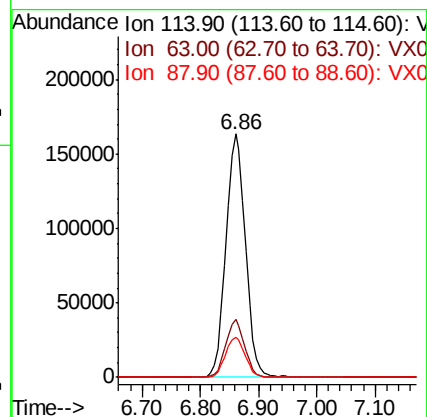
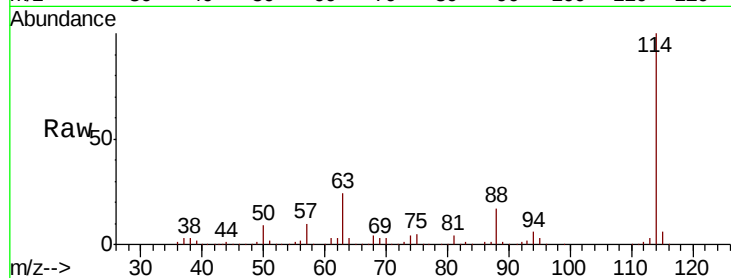




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX009051.D
Acq: 18 Apr 2019 18:05

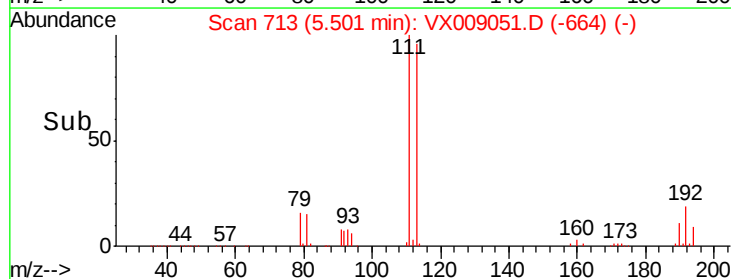
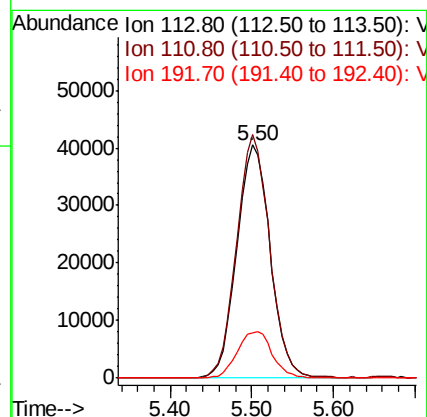
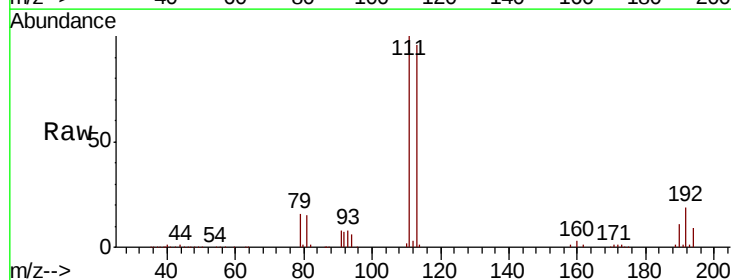
Instrument :
MSVOA_X
ClientSampleId :
PZ-01

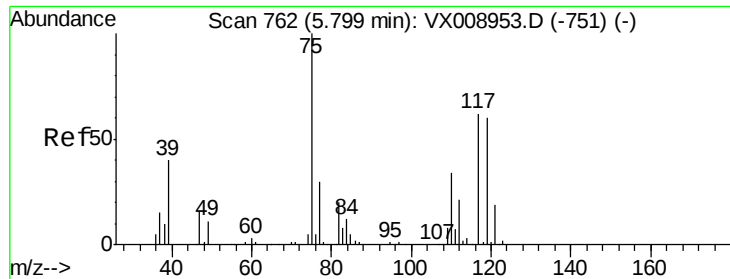
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	46.0
88	16.6	0.0	32.6



#35
Dibromofluoromethane
Concen: 47.155 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX009051.D
Acq: 18 Apr 2019 18:05

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.9	124.3
192	20.9	17.4	26.0

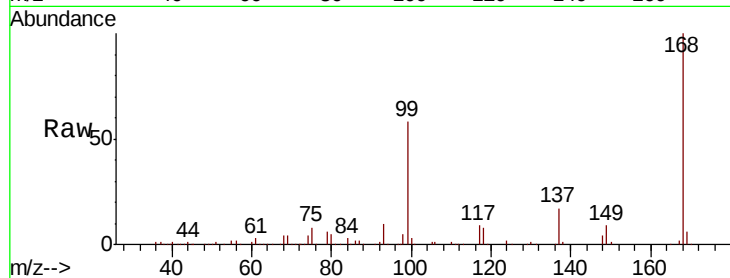




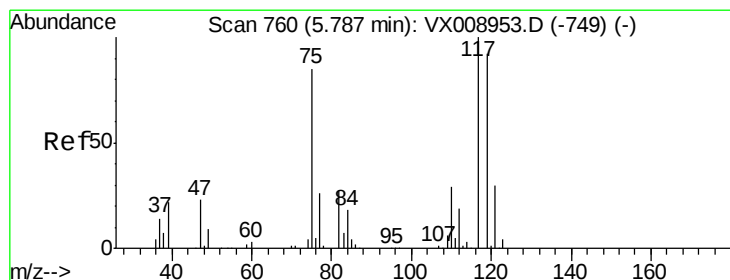
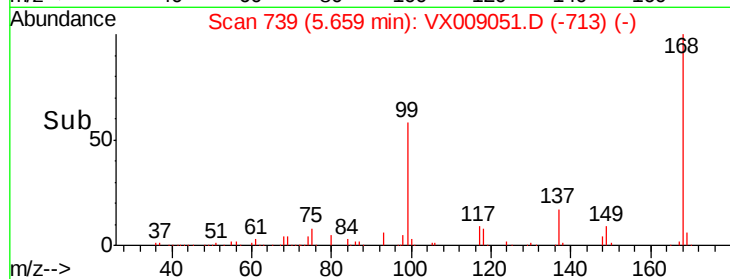
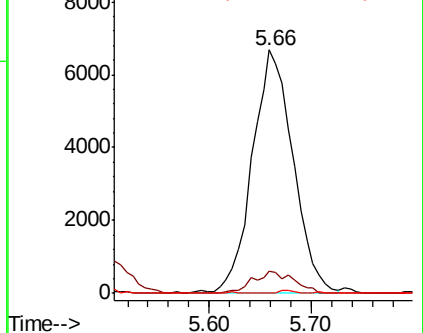
#36
 1,1-Dichloropropene
 Concen: 4.724 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009051.D
 Acq: 18 Apr 2019 18:05

Instrument :
 MSVOA_X
 ClientSampleId :
 PZ-01

Tot Ion: 75 Resp: 18593
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.9 50.7#
 77 0.4 25.0 37.4#

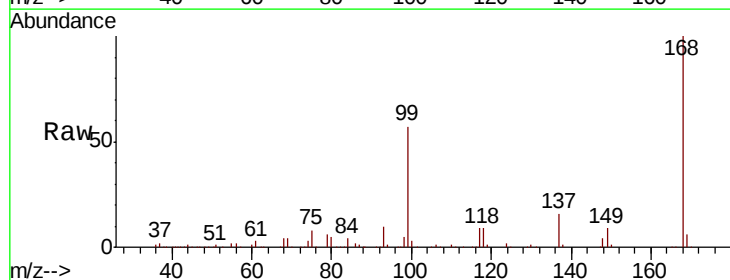


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

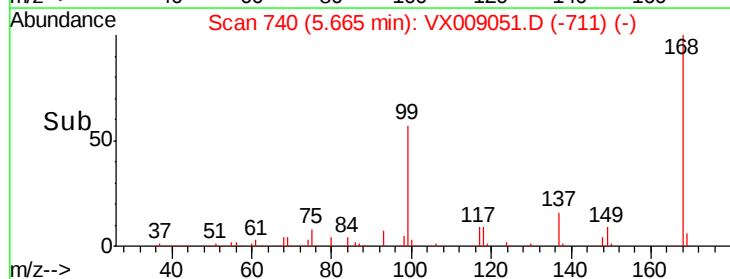
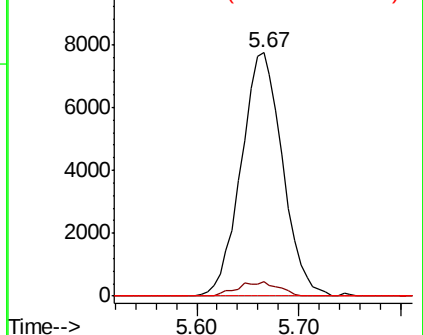


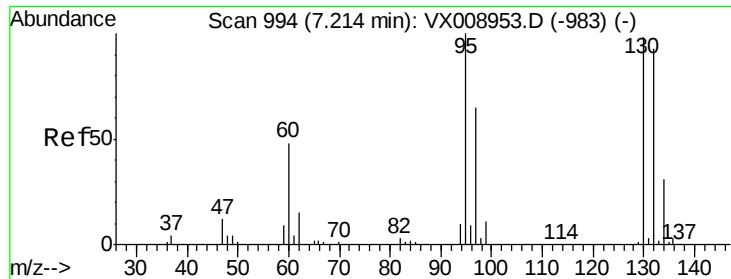
#38
 Carbon Tetrachloride
 Concen: 6.534 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX009051.D
 Acq: 18 Apr 2019 18:05

Tgt Ion: 117 Resp: 21803
 Ion Ratio Lower Upper
 117 100
 119 5.8 73.8 110.8#
 121 0.0 23.6 35.4#



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





#44

Trichloroethene

Concen: 0.230 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampleId :

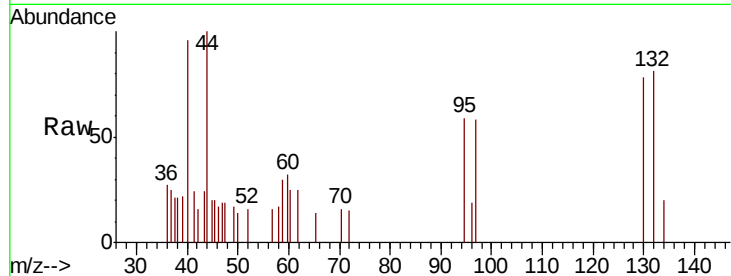
PZ-01

Tot Ion:130 Resp: 653

Ion Ratio Lower Upper

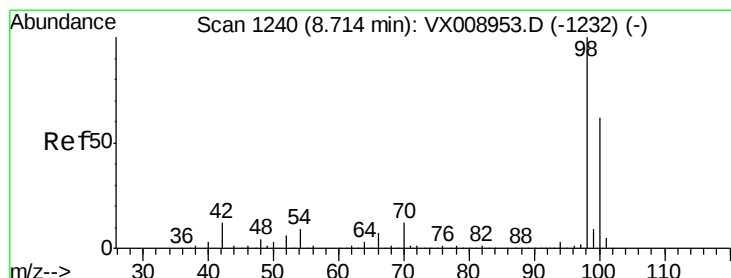
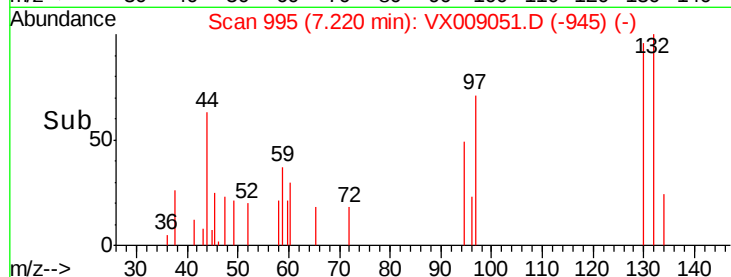
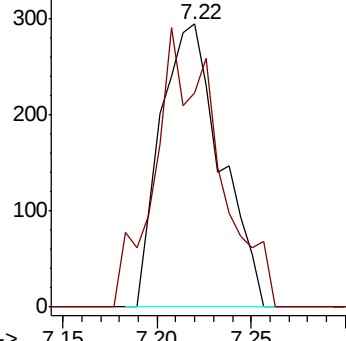
130 100

95 75.9 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 47.808 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009051.D

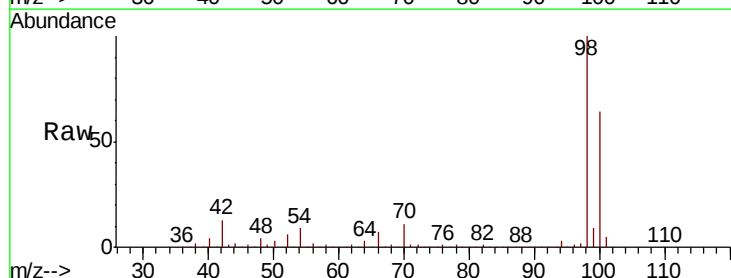
Acq: 18 Apr 2019 18:05

Tgt Ion: 98 Resp: 465654

Ion Ratio Lower Upper

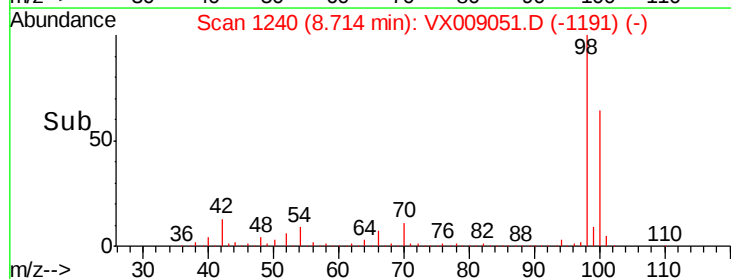
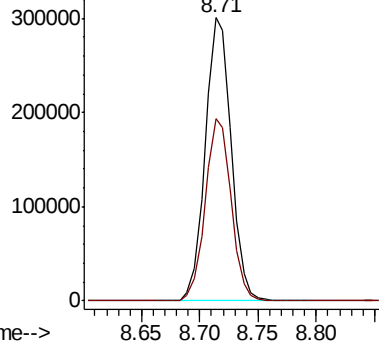
98 100

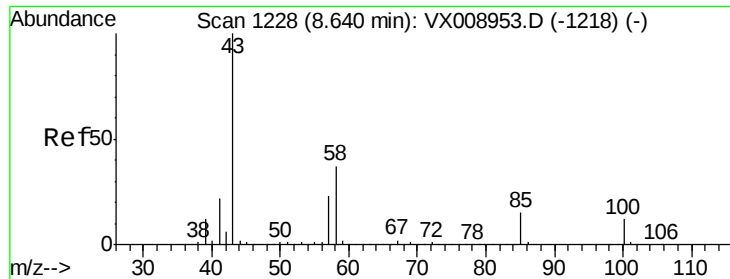
100 64.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.933 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampled :

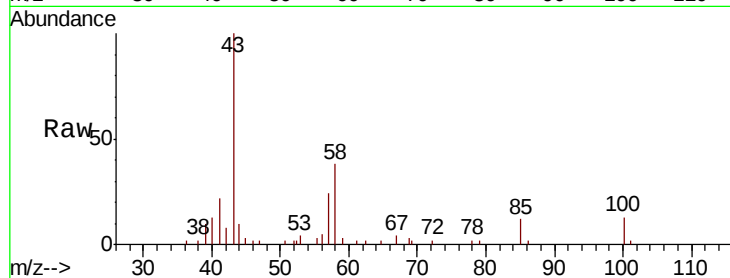
PZ-01

Tot Ion: 43 Resp: 4851

Ion Ratio Lower Upper

43 100

58 38.5 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VX008953.D (-1218) (-)

Ion 58.00 (57.70 to 58.70): VX008953.D (-1218) (-)

8.64

3000

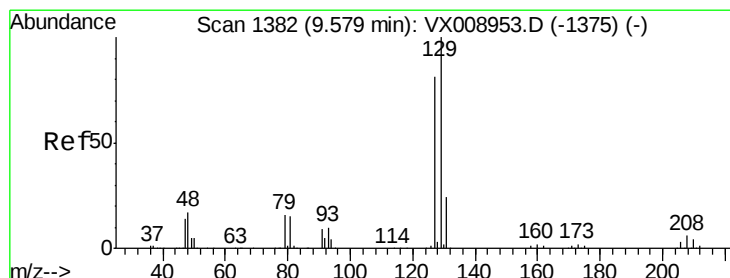
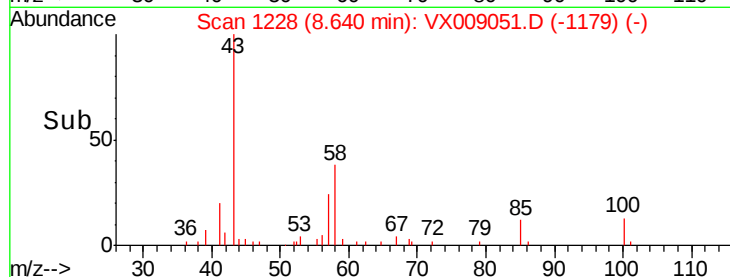
2000

1000

0

8.60 8.65 8.70

Time-->



#60

Dibromochloromethane

Concen: 0.314 ug/l

RT: 9.35 min Scan# 1344

Delta R.T. -0.23 min

Lab File: VX009051.D

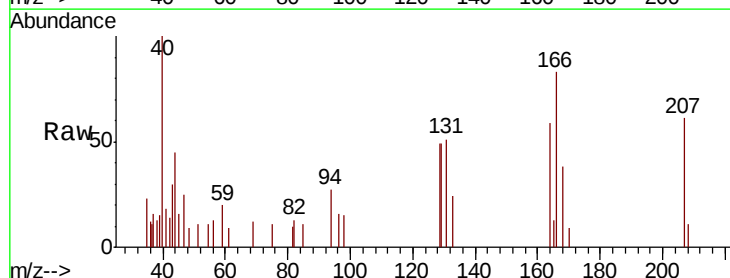
Acq: 18 Apr 2019 18:05

Tgt Ion: 129 Resp: 829

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): VX008953.D (-1375) (-)

Ion 126.80 (126.50 to 127.50): VX008953.D (-1375) (-)

9.35

600

500

400

300

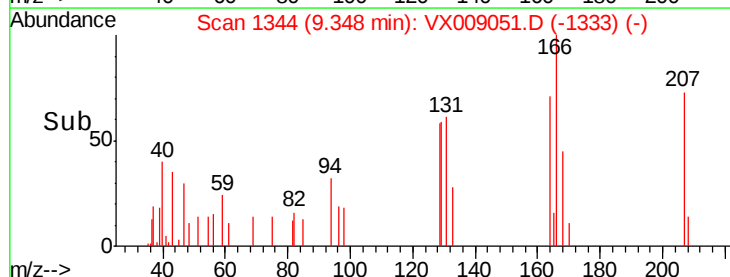
200

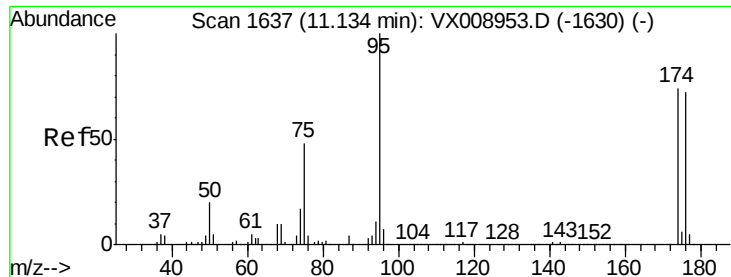
100

0

9.30 9.35

Time-->





#62

4-Bromofluorobenzene

Concen: 43.521 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampleId :

PZ-01

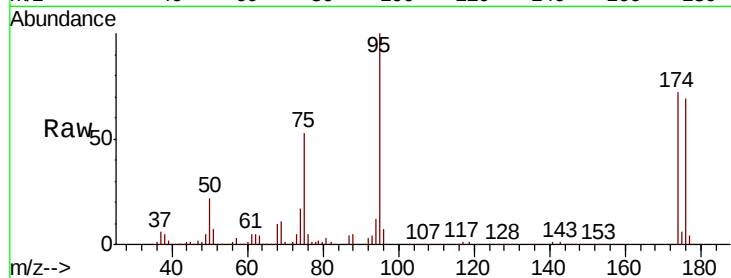
Tot Ion: 95 Resp: 149636

Ion Ratio Lower Upper

95 100

174 79.2 0.0 159.6

176 76.8 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)

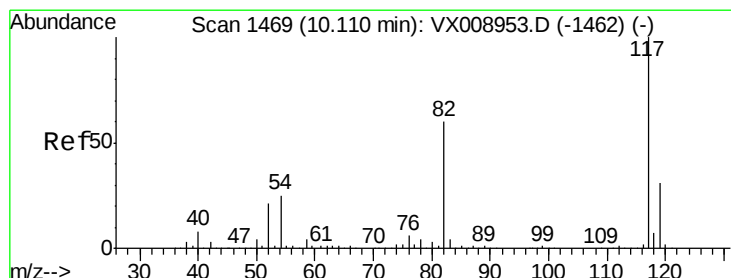
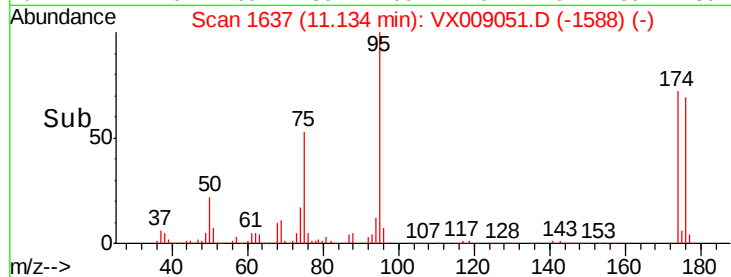
11.13

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

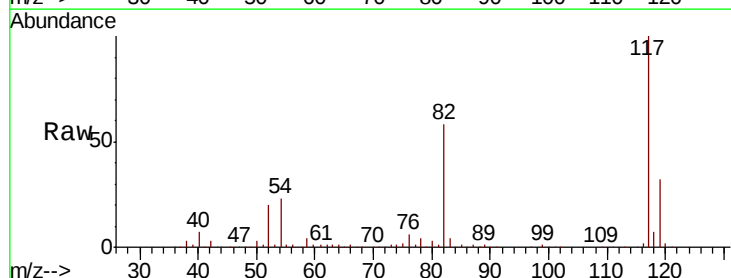
Tgt Ion: 117 Resp: 319051

Ion Ratio Lower Upper

117 100

82 57.9 48.2 72.4

119 32.5 25.0 37.6



Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)

10.12

300000

250000

200000

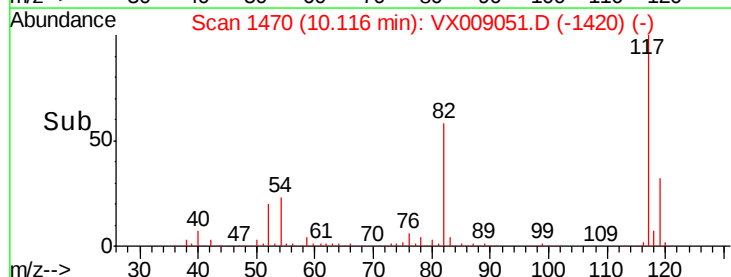
150000

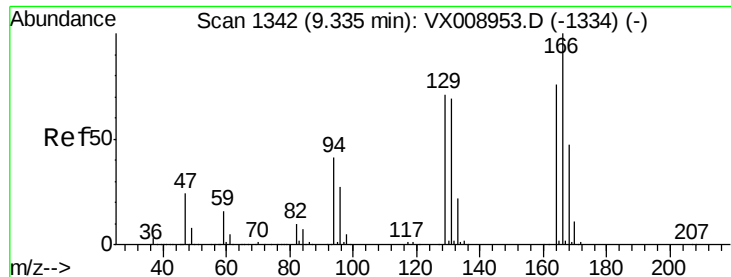
100000

50000

0

Time-->

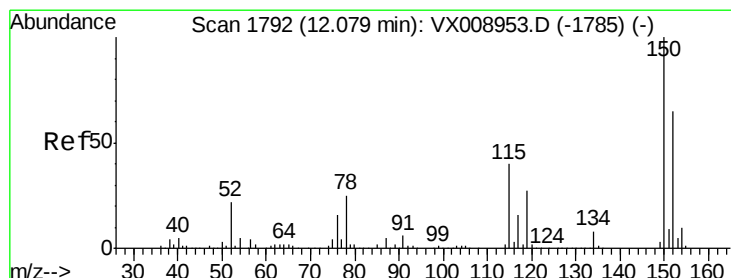
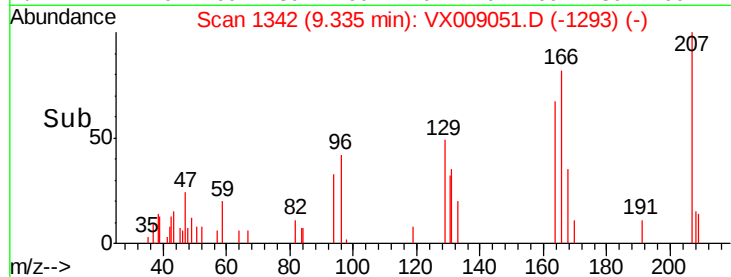
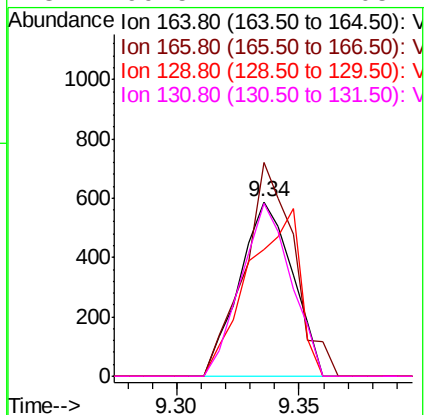
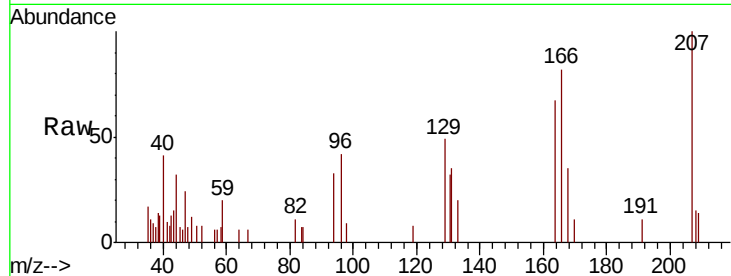




#64
Tetrachloroethene
Concen: 0.367 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009051.D
Acq: 18 Apr 2019 18:05

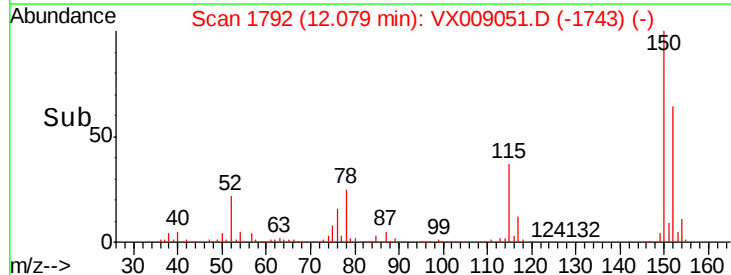
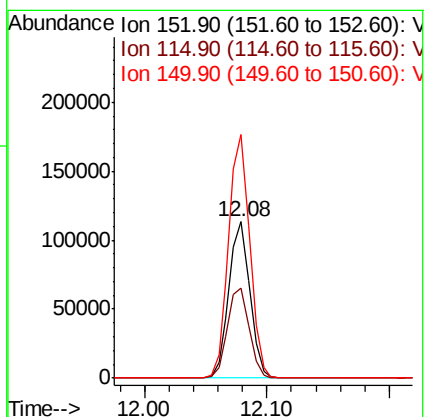
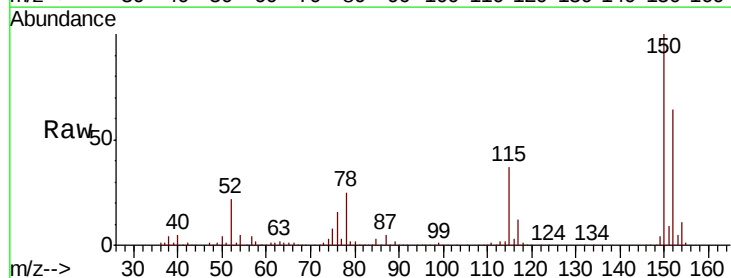
Instrument :
MSVOA_X
ClientSampled :
PZ-01

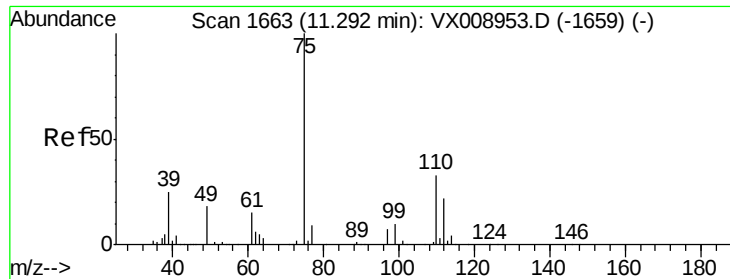
Tot Ion:164 Resp: 890
Ion Ratio Lower Upper
164 100
166 122.7 105.0 157.4
129 72.7 74.2 111.4#
131 99.5 72.2 108.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009051.D
Acq: 18 Apr 2019 18:05

Tgt Ion:152 Resp: 134498
Ion Ratio Lower Upper
152 100
115 59.8 41.4 124.2
150 156.8 0.0 349.8





#76

1,2,3-Trichloropropane

Concen: 23.593 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA_X

ClientSampleId :

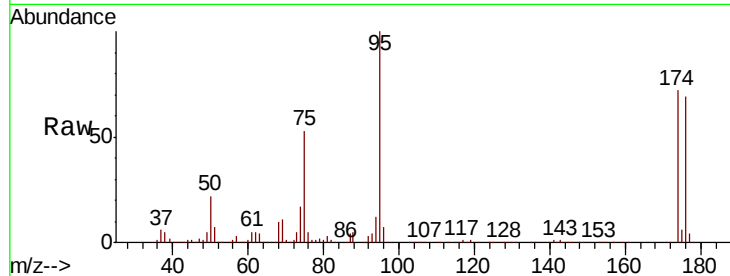
PZ-01

Tot Ion: 75 Resp: 77485

Ion Ratio Lower Upper

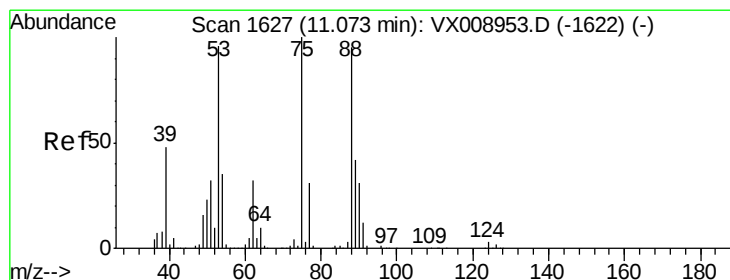
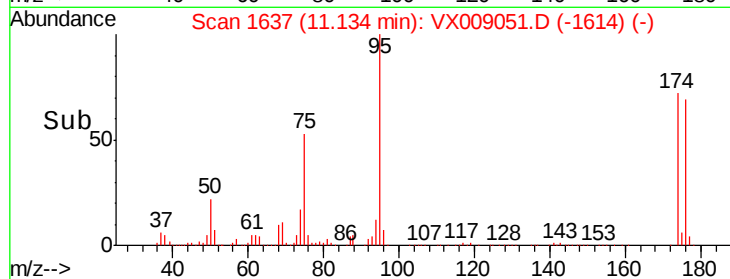
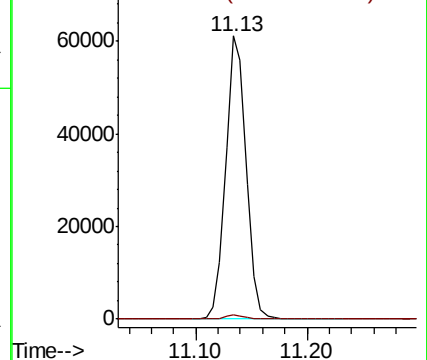
75 100

77 1.4 22.7 68.0#



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: 60.571 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

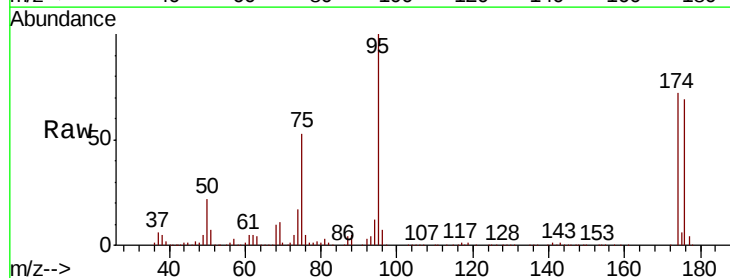
Tgt Ion: 75 Resp: 77485

Ion Ratio Lower Upper

75 100

53 0.2 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

