

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009010.D
 Acq On : 17 Apr 2019 13:27
 Operator : JC/SP
 Sample : K2425-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS035-190415

Quant Time: Apr 18 01:36:15 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	259795	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	409644	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	356650	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	151130	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	168045	45.90	ug/l	0.00
Spiked Amount			Recovery	=	91.80%	
35) Dibromofluoromethane	5.49	113	122701	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	
50) Toluene-d8	8.71	98	512909	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
62) 4-Bromofluorobenzene	11.13	95	171596	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	

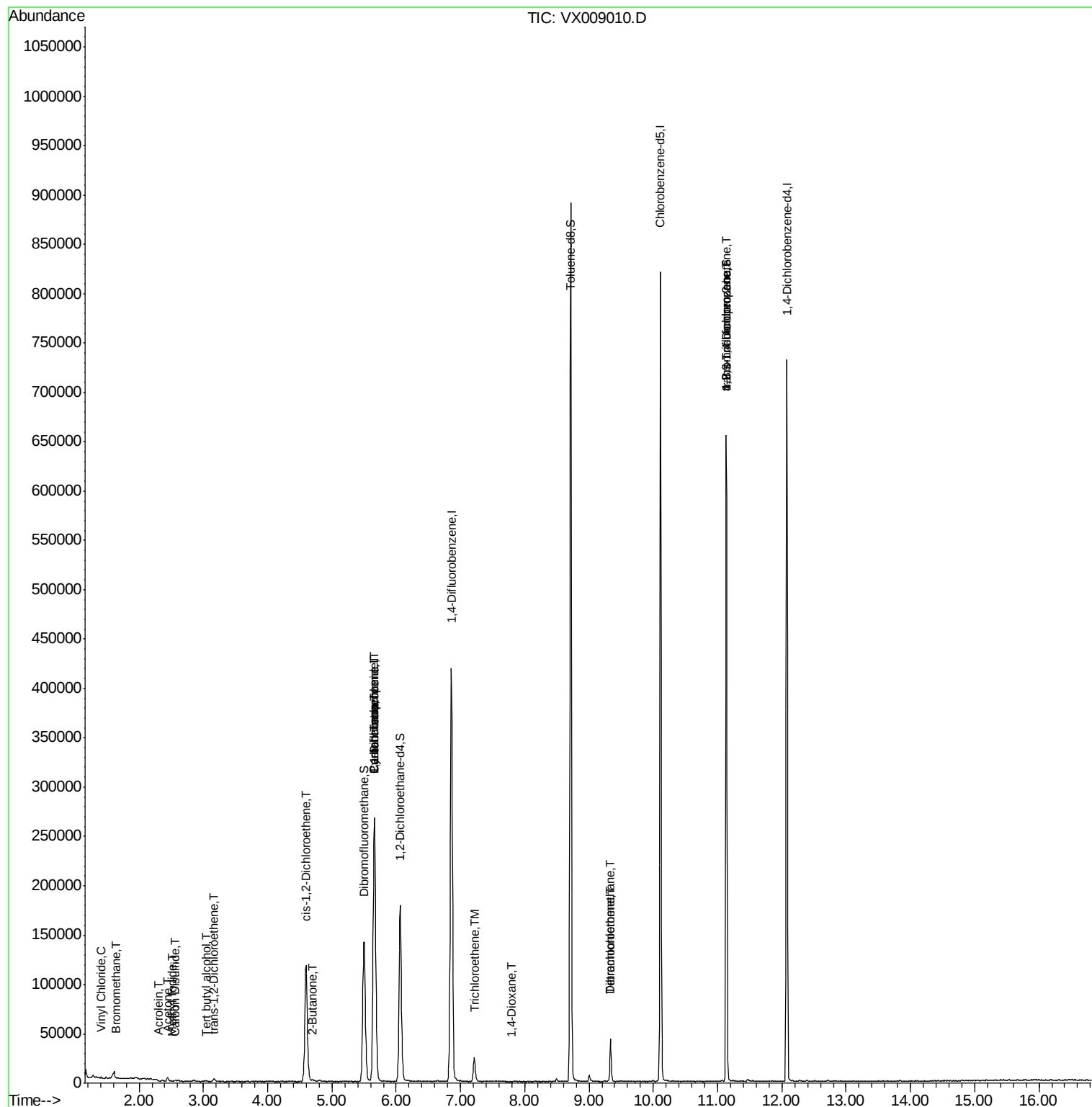
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	1003	0.281	ug/l	96
5) Bromomethane	1.65	94	309	3.976	ug/l	83
10) Methyl Iodide	2.52	142	350	4.524	ug/l #	81
11) Tert butyl alcohol	3.04	59	1113	1.370	ug/l #	91
13) Acrolein	2.30	56	183	0.261	ug/l #	21
16) Acetone	2.44	43	4355	2.294	ug/l	96
17) Carbon Disulfide	2.57	76	910	1.361	ug/l #	83
21) trans-1,2-Dichloroethene	3.17	96	843	0.284	ug/l #	75
25) 2-Butanone	4.69	43	637	0.210	ug/l #	54
27) cis-1,2-Dichloroethene	4.60	96	74795	22.169	ug/l	90
28) Bromochloromethane	5.02	49	21	Below Cal	#	21
31) Cyclohexane	5.66	56	6090	1.044	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	20580	4.858	ug/l #	51
38) Carbon Tetrachloride	5.66	117	24295	6.764	ug/l #	18
44) Trichloroethene	7.21	130	9181	2.998	ug/l	100
49) 1,4-Dioxane	7.79	88	19	0.234	ug/l #	1
60) Dibromochloromethane	9.34	129	7404	2.602	ug/l #	10
64) Tetrachloroethene	9.34	164	8475	3.128	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	86407	23.415	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	86407	60.112	ug/l #	11

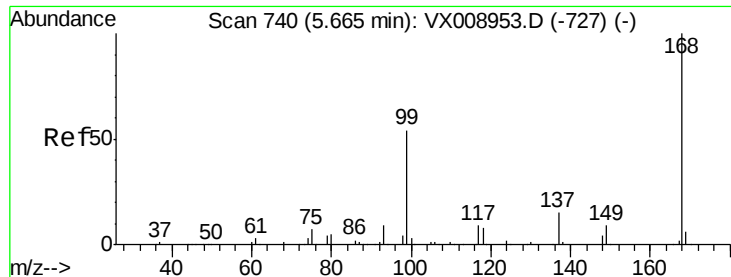
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

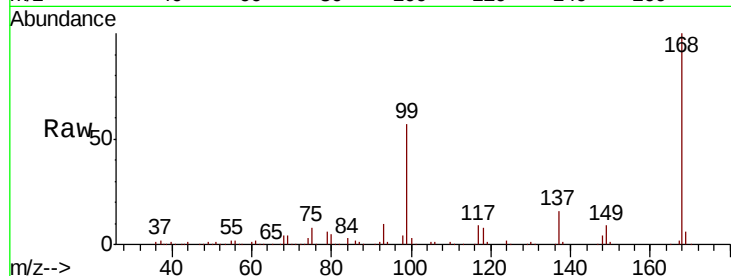
KY038PS035-190415

Tot Ion:168 Resp: 259795

Ion Ratio Lower Upper

168 100

99 56.7 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

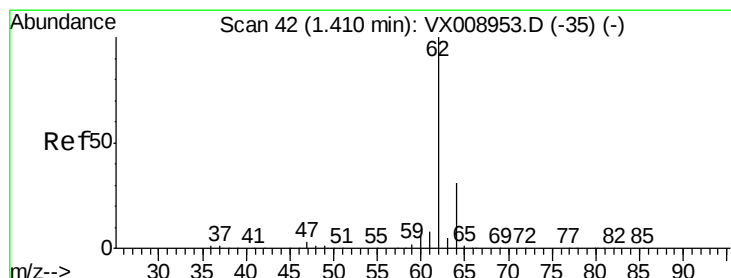
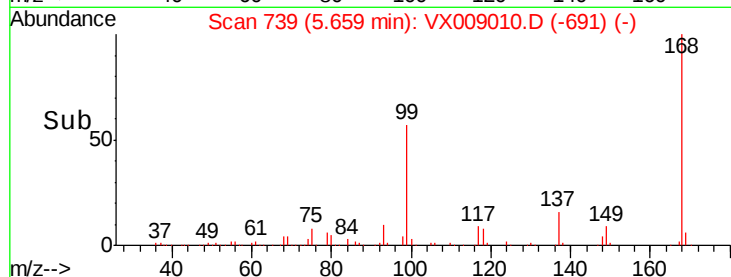
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.281 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009010.D

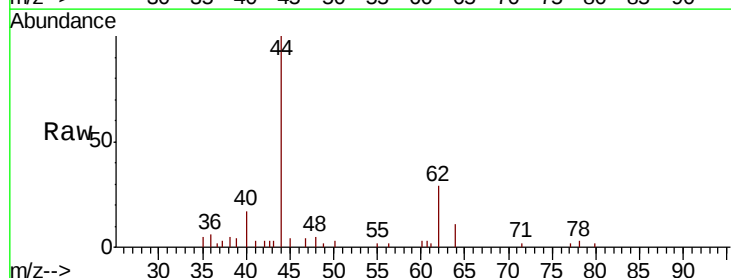
Acq: 17 Apr 2019 13:27

Tgt Ion: 62 Resp: 1003

Ion Ratio Lower Upper

62 100

64 28.9 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

800

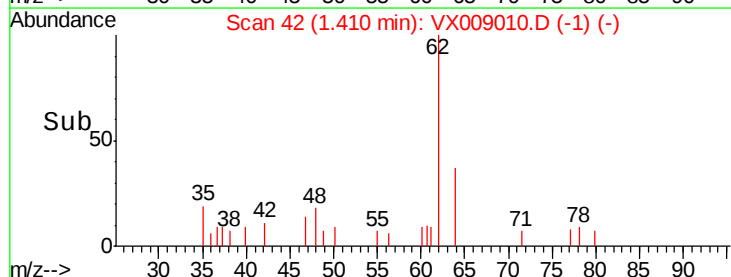
600

400

200

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 3.976 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

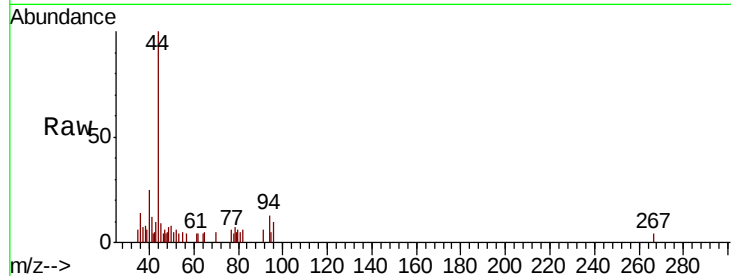
KY038PS035-190415

Tot Ion: 94 Resp: 309

Ion Ratio Lower Upper

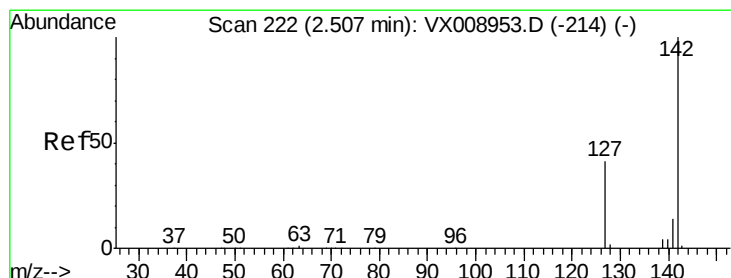
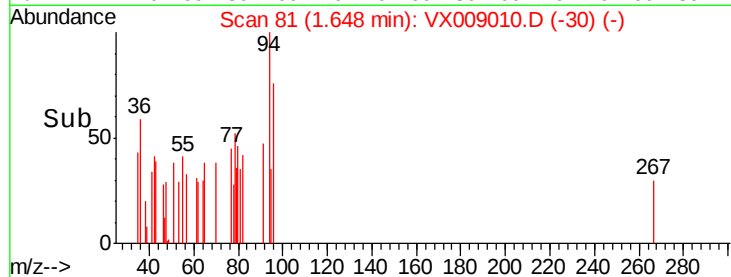
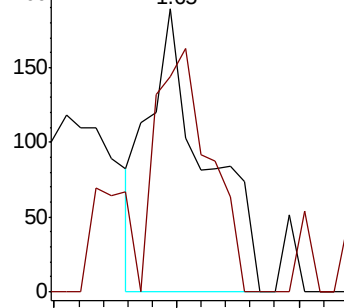
94 100

96 76.2 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.524 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

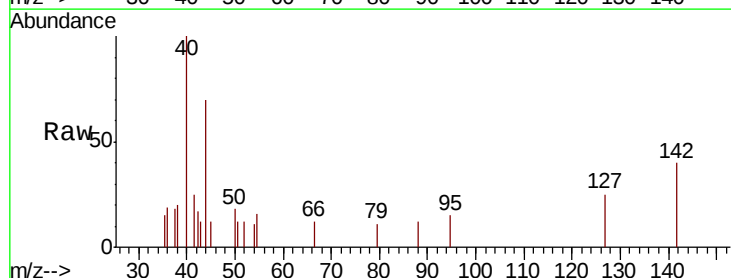
Tgt Ion: 142 Resp: 350

Ion Ratio Lower Upper

142 100

127 32.9 32.8 49.2

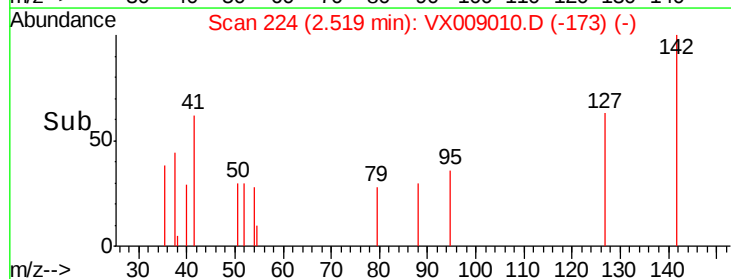
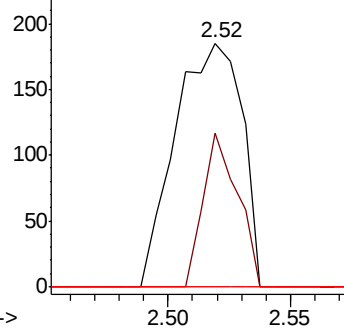
141 0.0 11.4 17.2#

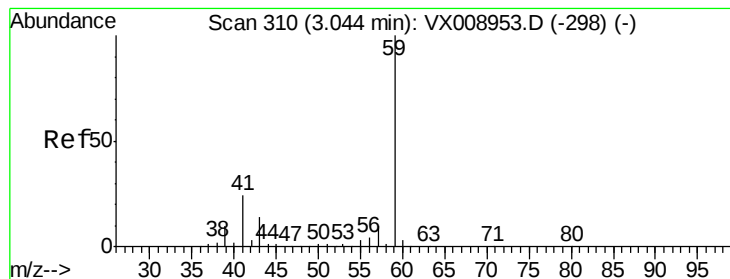


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



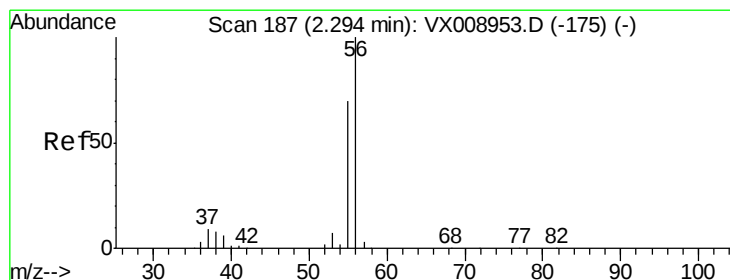
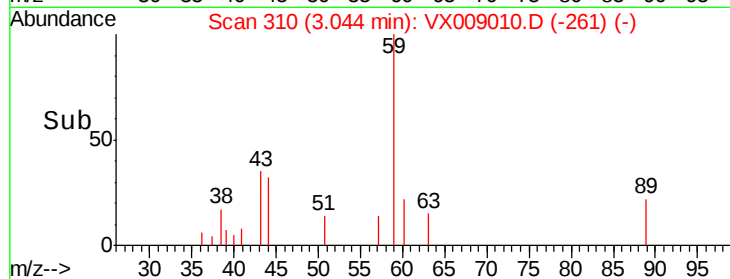
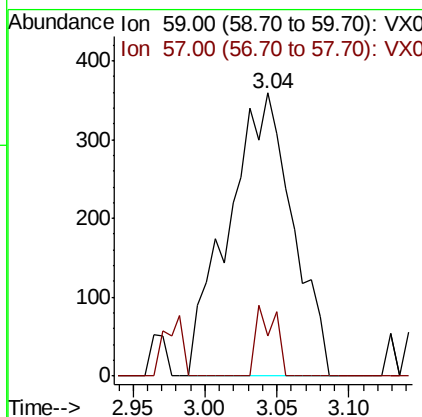
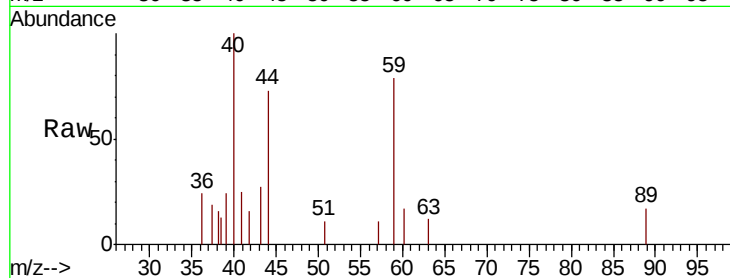


#11

Tert butyl alcohol
 Concen: 1.370 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. -0.00 min
 Lab File: VX009010.D
 Acq: 17 Apr 2019 13:27

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS035-190415

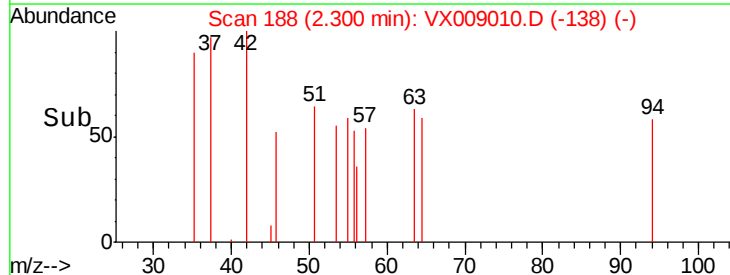
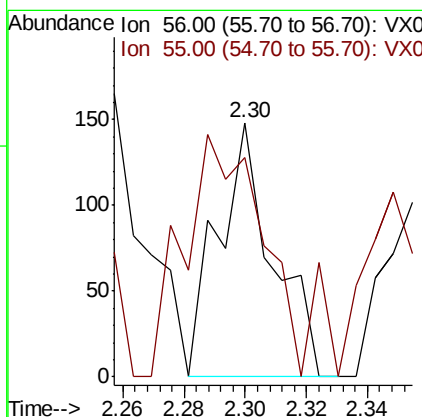
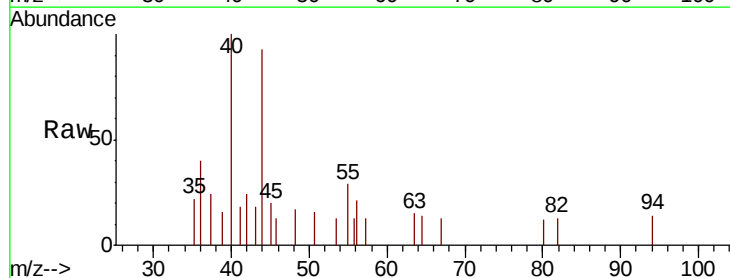
Tot Ion: 59 Resp: 1113
 Ion Ratio Lower Upper
 59 100
 57 7.3 8.4 12.6#

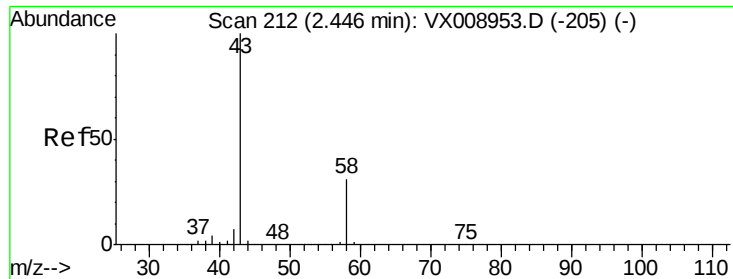


#13

Acrolein
 Concen: 0.261 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX009010.D
 Acq: 17 Apr 2019 13:27

Tgt Ion: 56 Resp: 183
 Ion Ratio Lower Upper
 56 100
 55 135.5 56.6 84.8#





#16

Acetone

Concen: 2.294 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

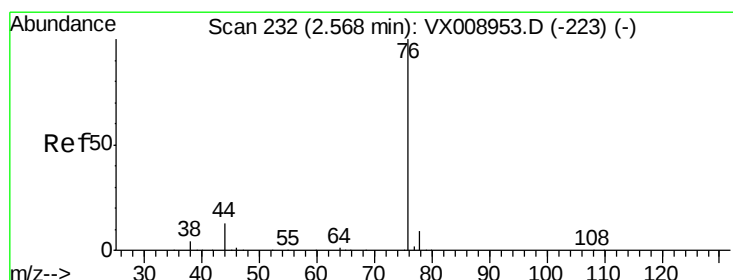
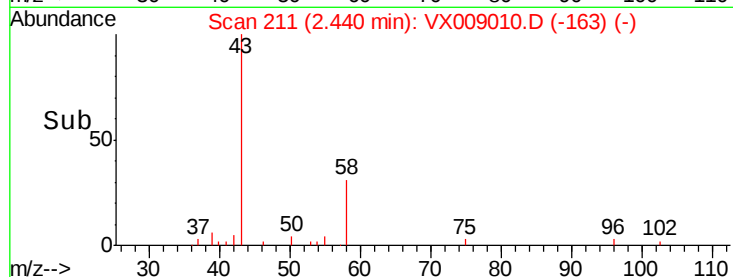
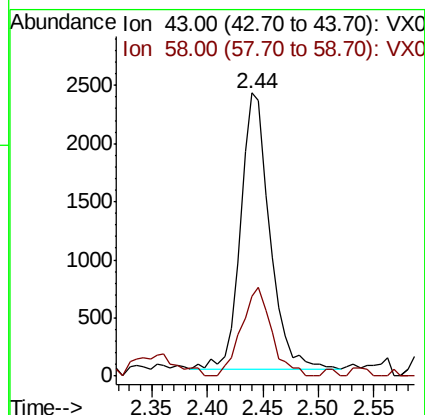
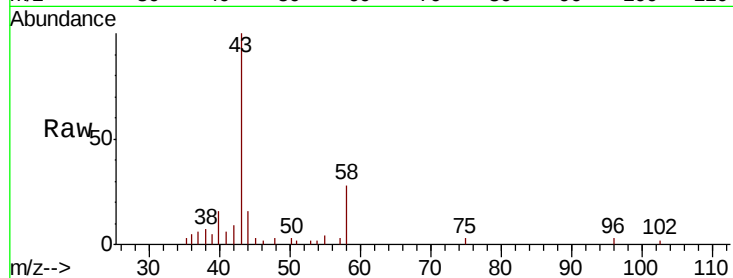
KY038PS035-190415

Tot Ion: 43 Resp: 4355

Ion Ratio Lower Upper

43 100

58 29.0 24.8 37.2



#17

Carbon Disulfide

Concen: 1.361 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009010.D

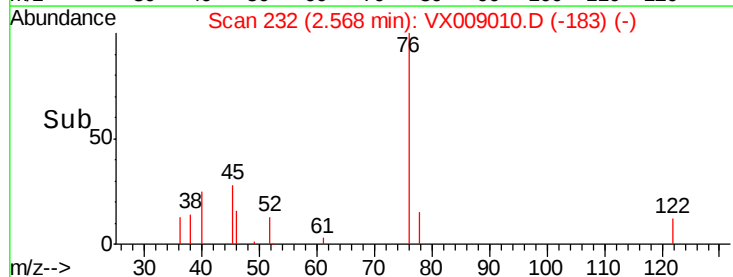
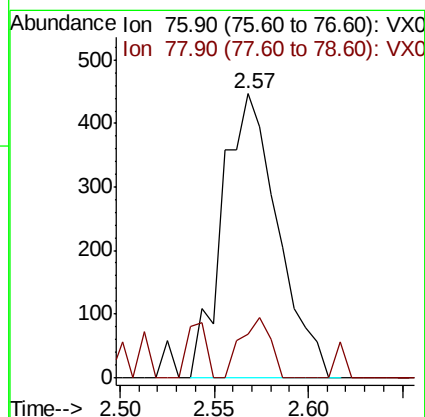
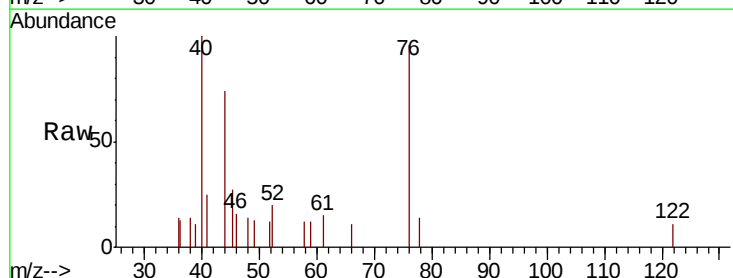
Acq: 17 Apr 2019 13:27

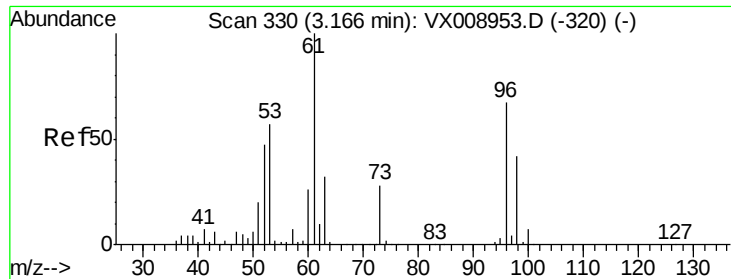
Tgt Ion: 76 Resp: 910

Ion Ratio Lower Upper

76 100

78 2.7 7.2 10.8#





#21

trans-1,2-Dichloroethene

Concen: 0.284 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

KY038PS035-190415

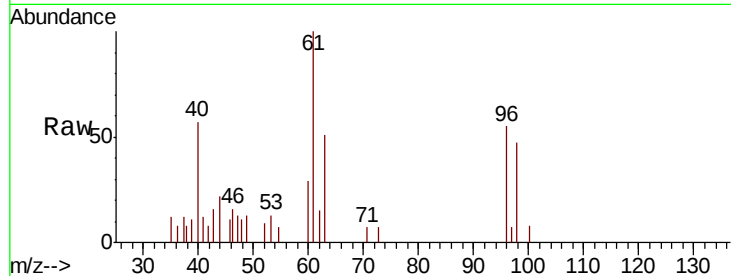
Tot Ion: 96 Resp: 843

Ion Ratio Lower Upper

96 100

61 180.8 120.3 180.5#

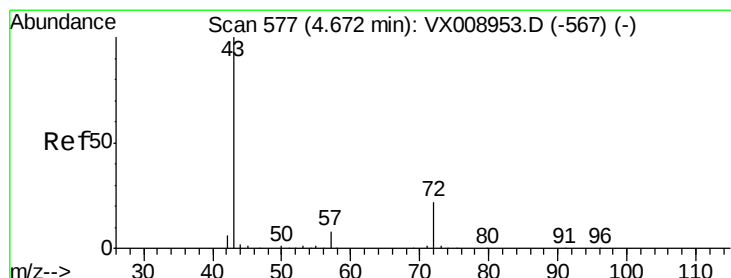
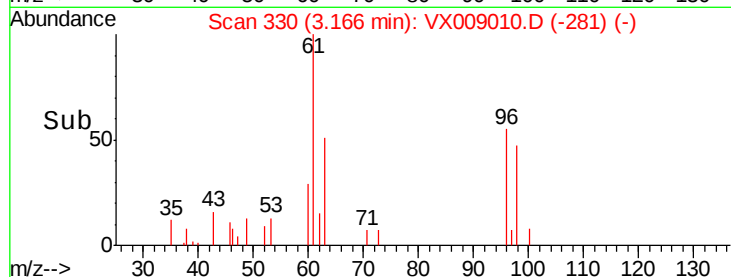
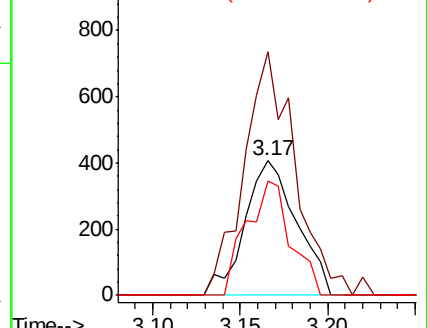
98 84.8 50.2 75.2#



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



#25

2-Butanone

Concen: 0.210 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009010.D

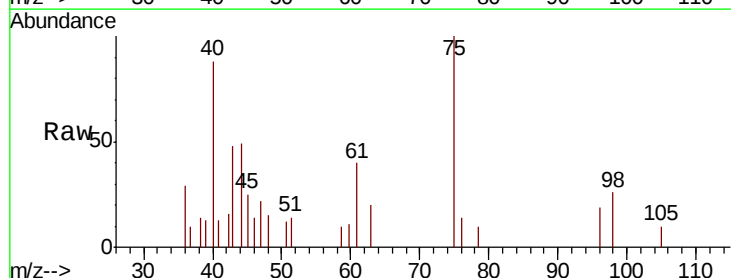
Acq: 17 Apr 2019 13:27

Tgt Ion: 43 Resp: 637

Ion Ratio Lower Upper

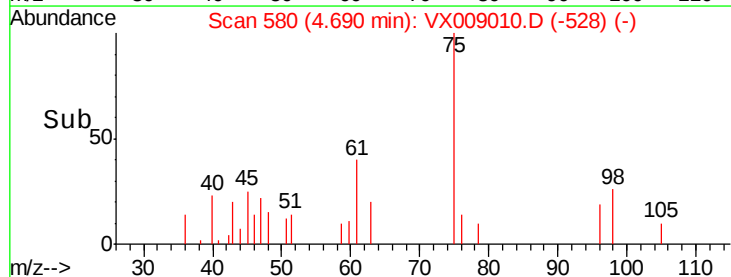
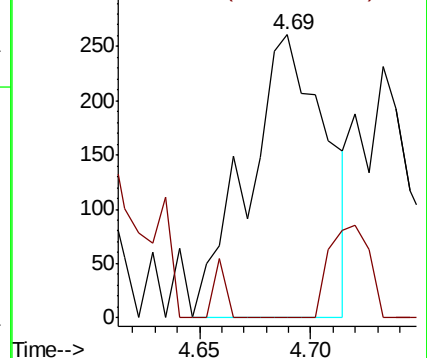
43 100

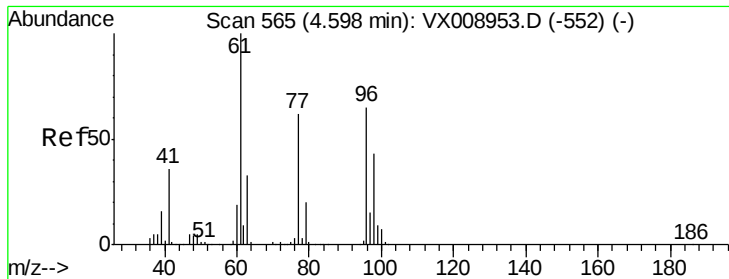
72 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



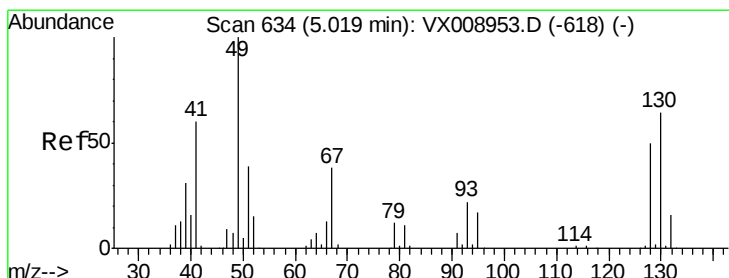
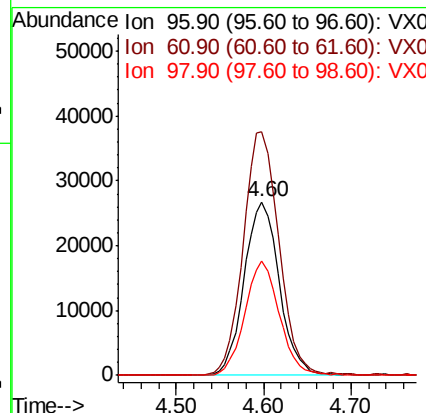
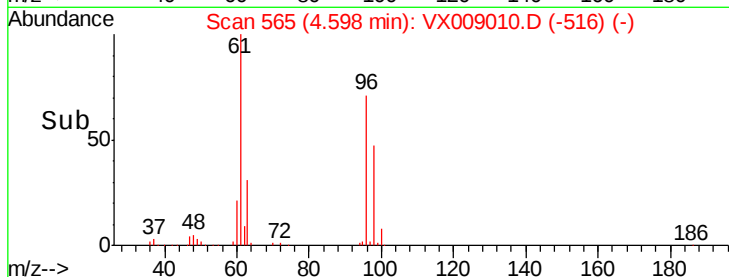
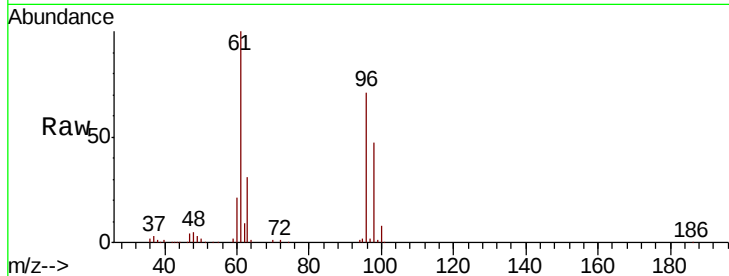


#27

cis-1,2-Dichloroethene
 Concen: 22.169 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX009010.D
 Acq: 17 Apr 2019 13:27

Instrument :
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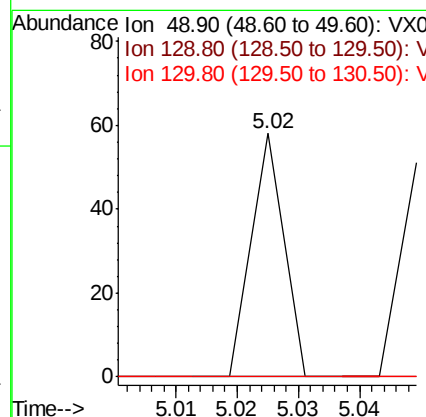
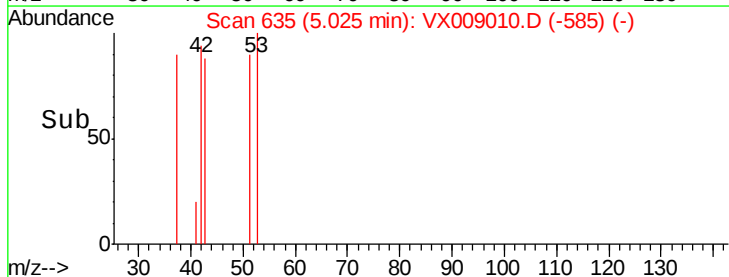
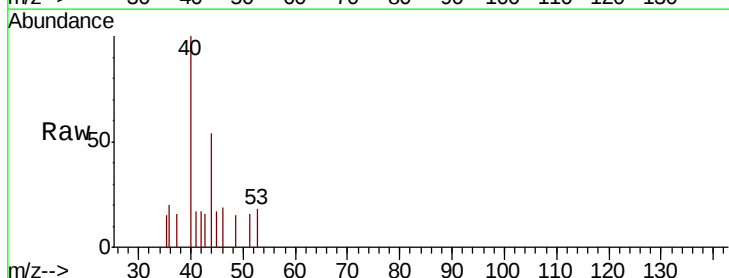
Tot Ion	Ratio	Lower	Upper
96	100		
61	142.7	0.0	322.0
98	64.5	0.0	128.4

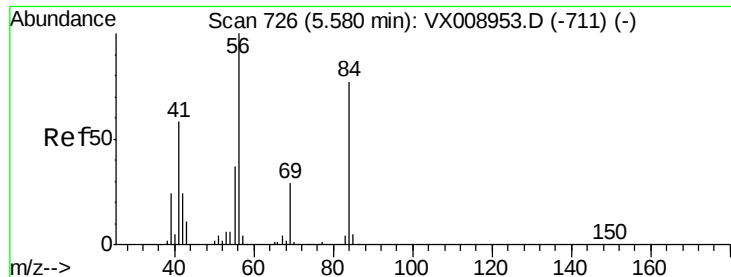


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.02 min Scan# 635
 Delta R.T. 0.01 min
 Lab File: VX009010.D
 Acq: 17 Apr 2019 13:27

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	50.4	75.6#

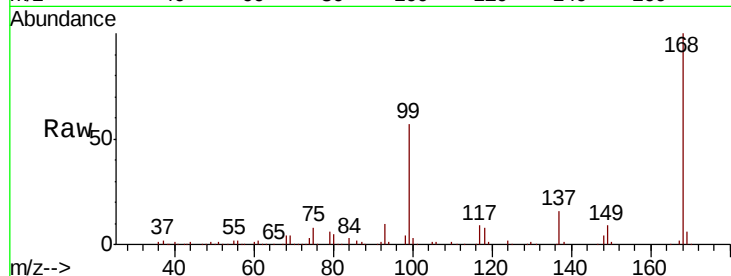




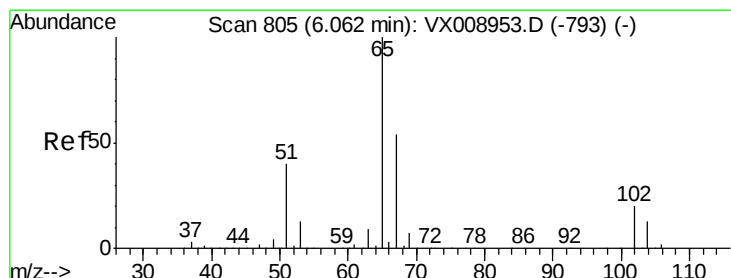
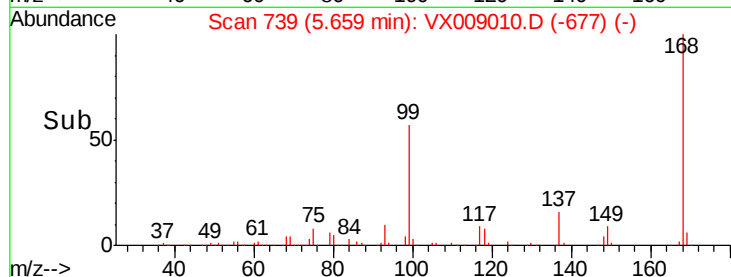
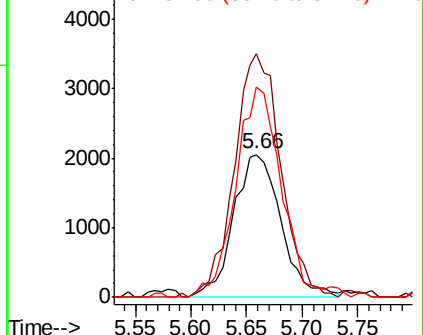
#31
Cyclohexane
Concen: 1.044 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009010.D
Acq: 17 Apr 2019 13:27

Instrument :
MSVOA_X
ClientSampleId :
KY038PS035-190415

Tot Ion: 56 Resp: 6090
Ion Ratio Lower Upper
56 100
69 170.8 23.3 34.9#
84 148.0 61.7 92.5#

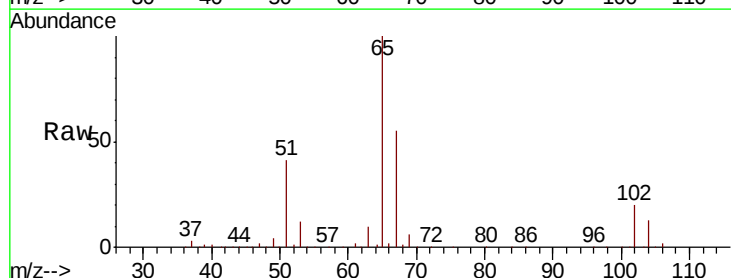


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

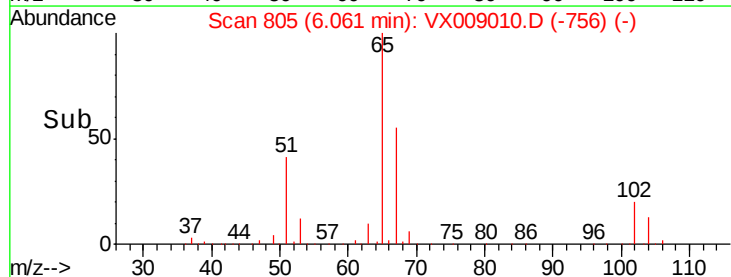
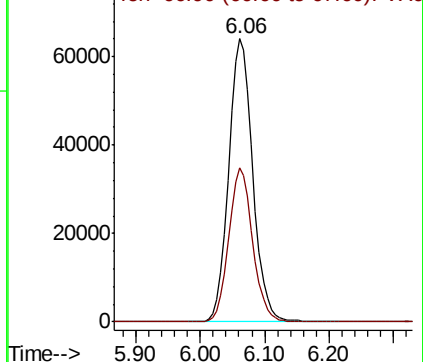


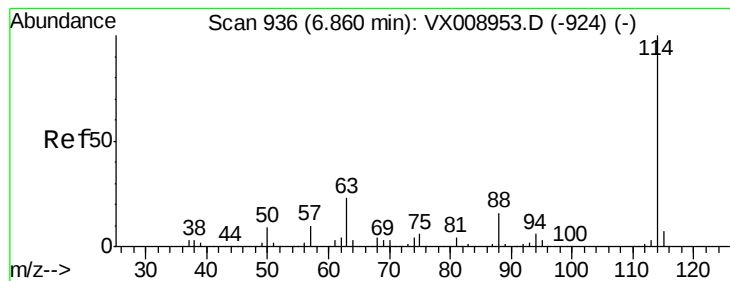
#33
1,2-Dichloroethane-d4
Concen: 45.898 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009010.D
Acq: 17 Apr 2019 13:27

Tgt Ion: 65 Resp: 168045
Ion Ratio Lower Upper
65 100
67 53.9 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: VX009010.D

Acq: 17 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

KY038PS035-190415

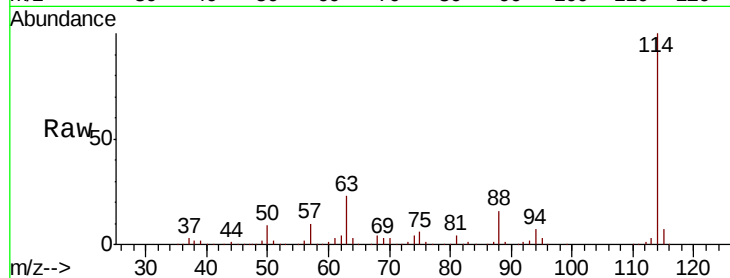
Tot Ion:114 Resp: 409644

Ion Ratio Lower Upper

114 100

63 23.3 0.0 46.0

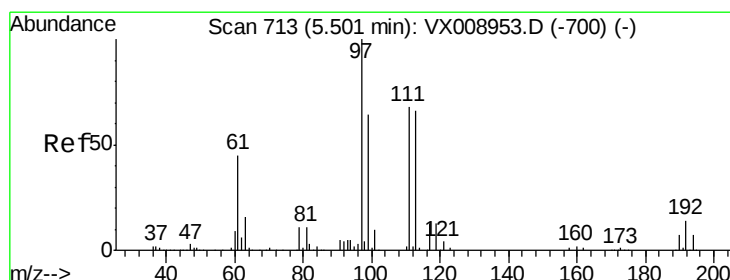
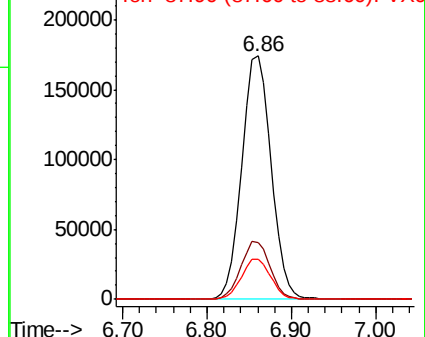
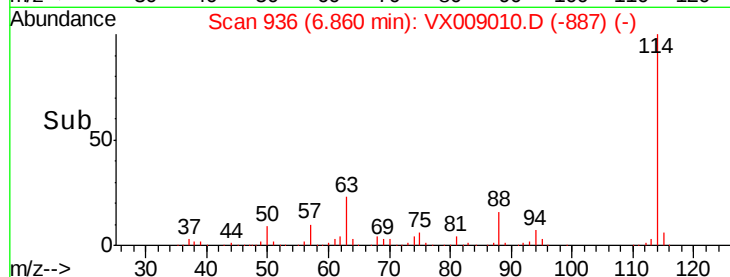
88 16.4 0.0 32.6



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: 46.672 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

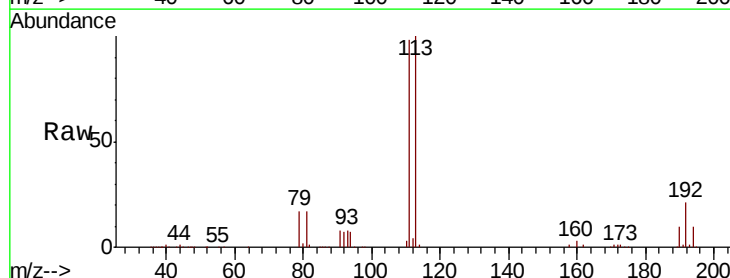
Tgt Ion:113 Resp: 122701

Ion Ratio Lower Upper

113 100

111 103.4 82.9 124.3

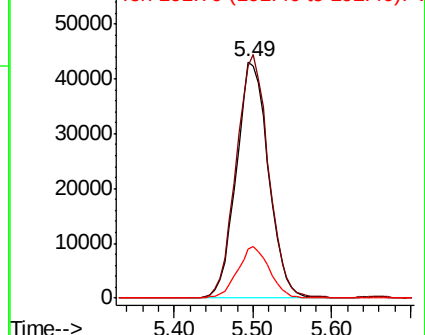
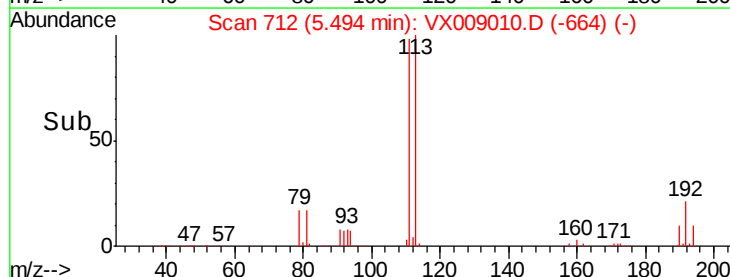
192 21.5 17.4 26.0

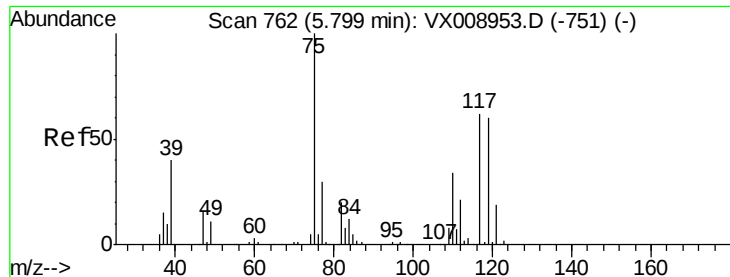


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

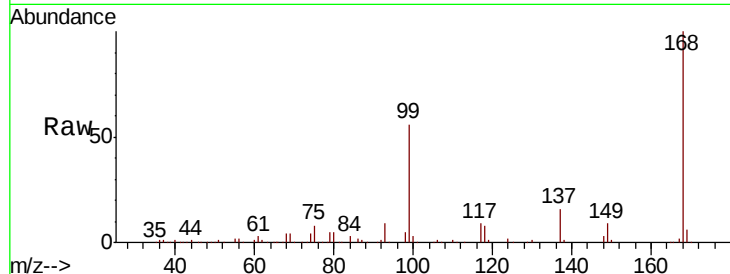




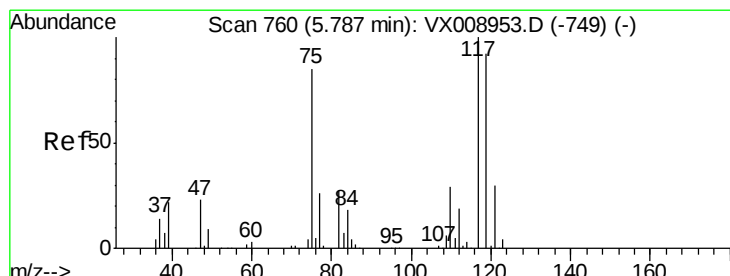
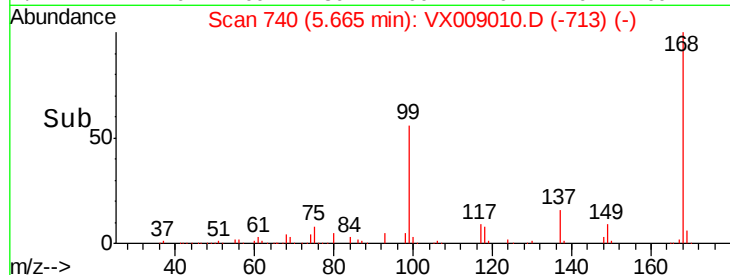
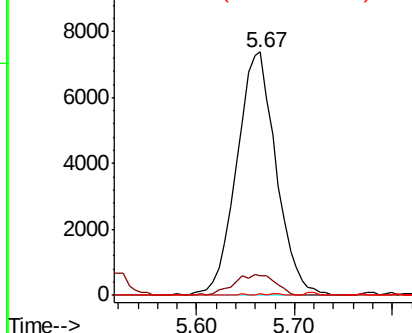
#36
 1,1-Dichloropropene
 Concen: 4.858 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009010.D
 Acq: 17 Apr 2019 13:27

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS035-190415

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.9	50.7#
77	0.1	25.0	37.4#

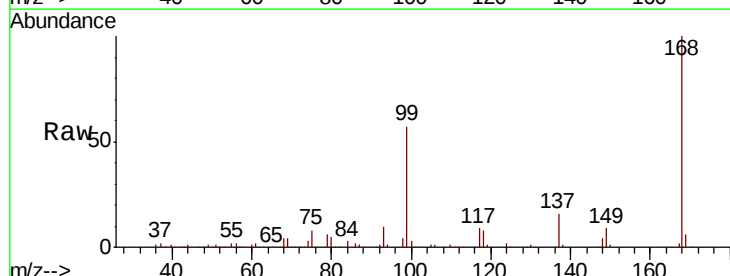


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

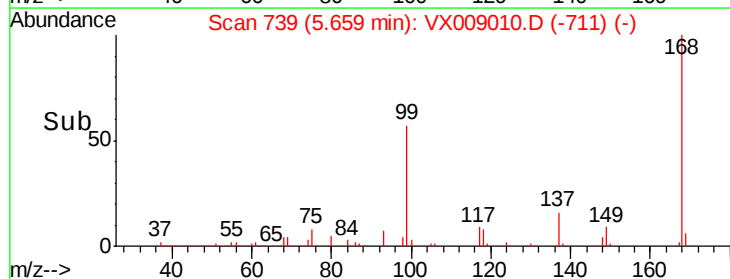
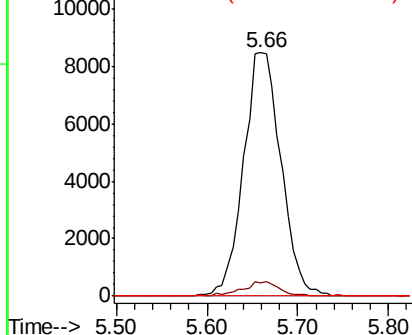


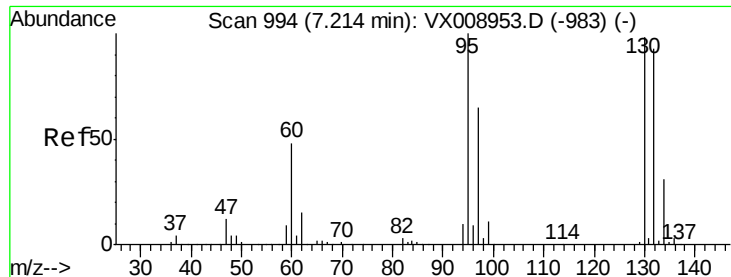
#38
 Carbon Tetrachloride
 Concen: 6.764 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX009010.D
 Acq: 17 Apr 2019 13:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	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: 2.998 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

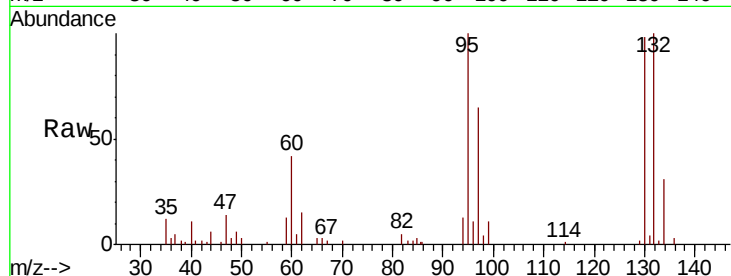
KY038PS035-190415

Tot Ion:130 Resp: 9181

Ion Ratio Lower Upper

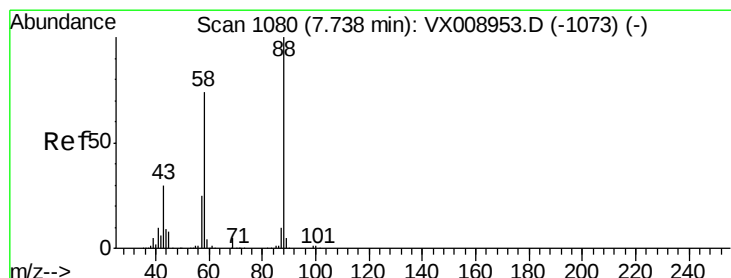
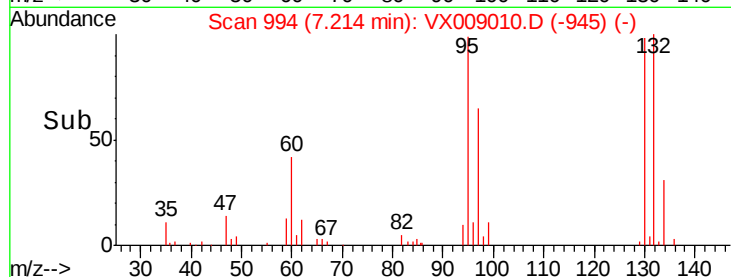
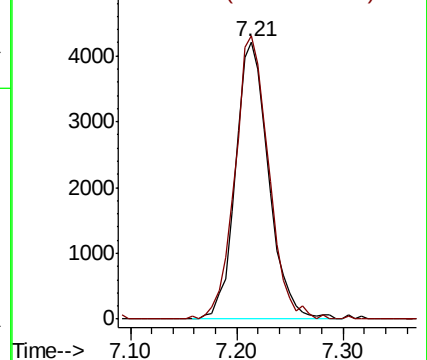
130 100

95 102.0 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.234 ug/l

RT: 7.79 min Scan# 1089

Delta R.T. 0.05 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

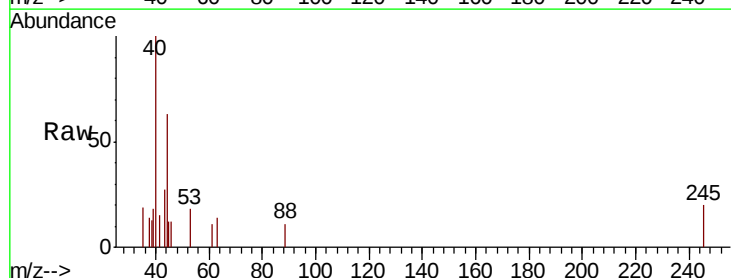
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 721.1 29.3 43.9#

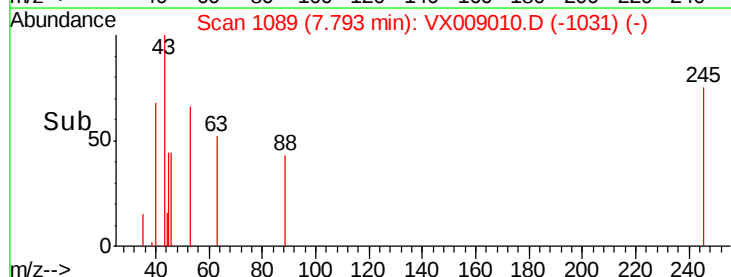
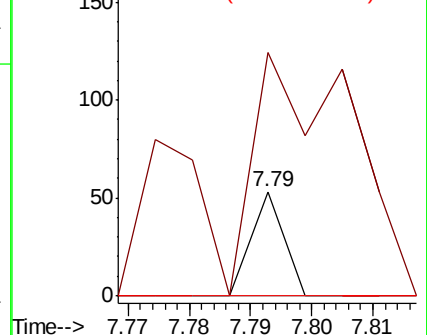
58 0.0 62.6 93.8#

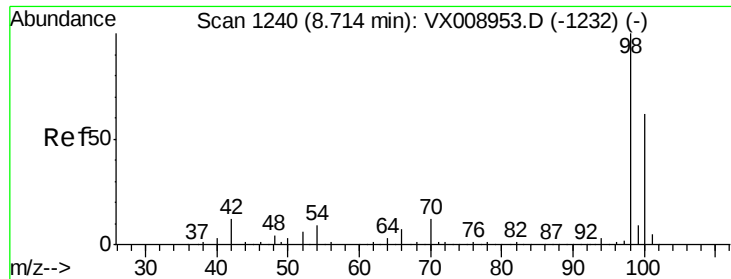


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

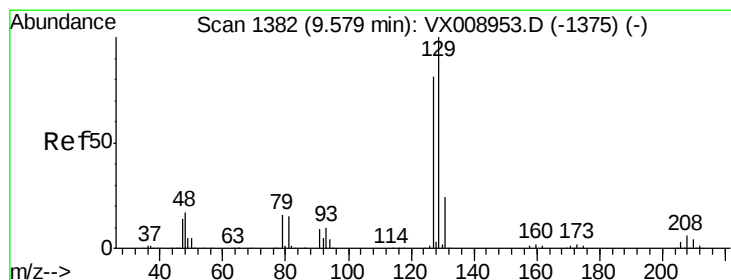
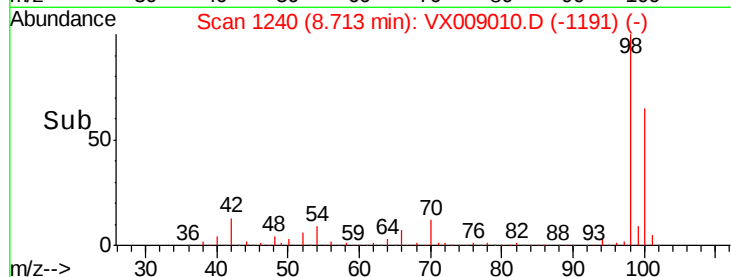
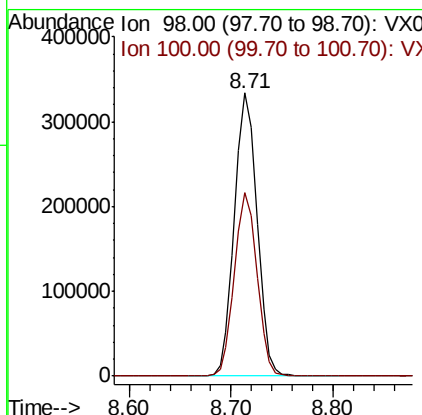
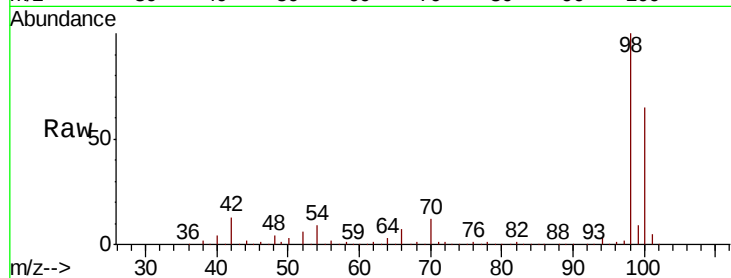




#50
Toluene-d8
Concen: 48.920 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009010.D
Acq: 17 Apr 2019 13:27

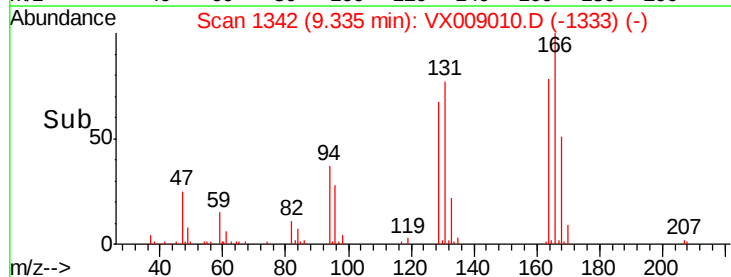
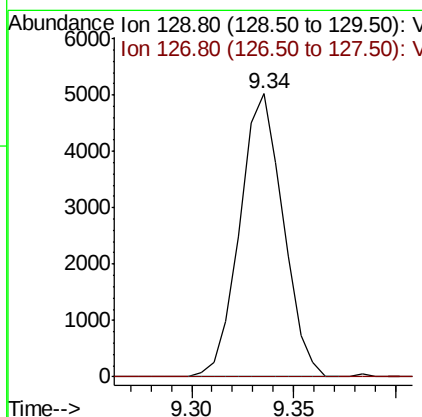
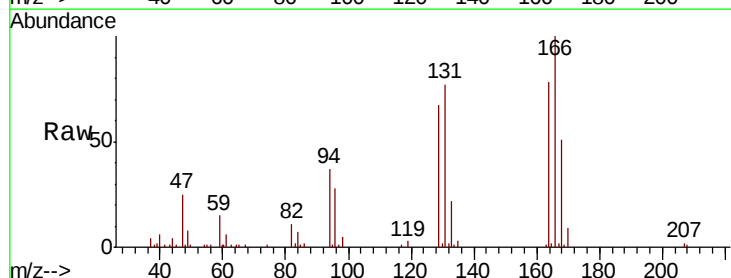
Instrument :
MSVOA_X
ClientSampleId :
KY038PS035-190415

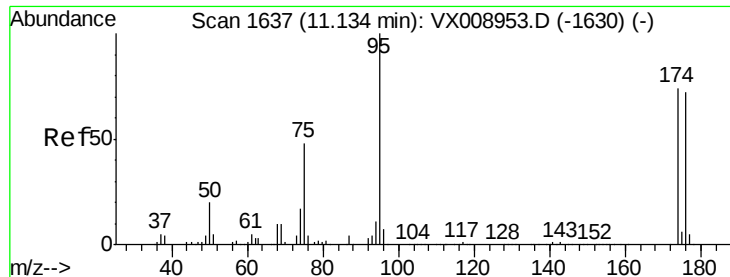
Tot Ion: 98 Resp: 512909
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.2



#60
Dibromochloromethane
Concen: 2.602 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX009010.D
Acq: 17 Apr 2019 13:27

Tgt Ion:129 Resp: 7404
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#





#62

4-Bromofluorobenzene

Concen: 46.364 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

KY038PS035-190415

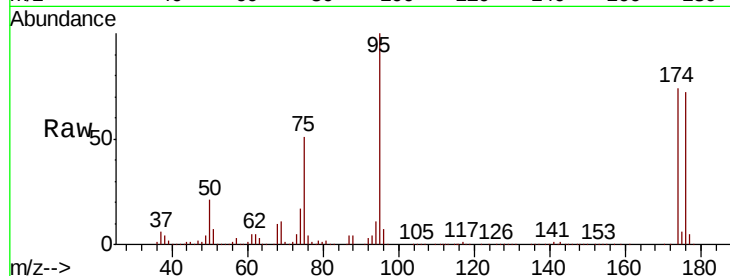
Tot Ion: 95 Resp: 171596

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.6

176 77.3 0.0 154.8

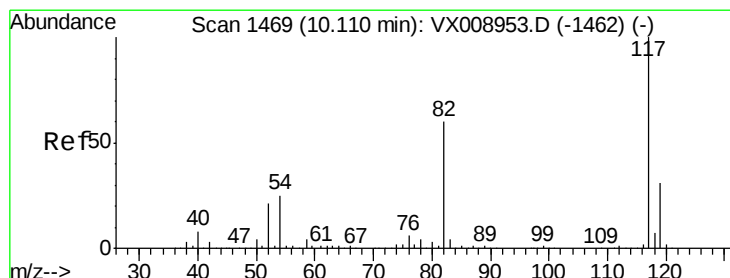
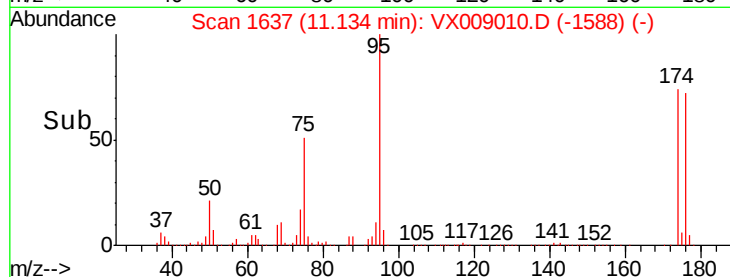


Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

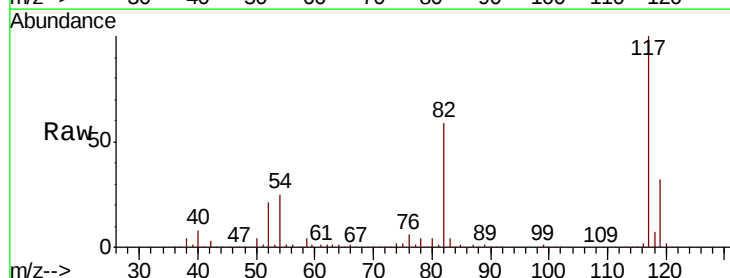
Tgt Ion: 117 Resp: 356650

Ion Ratio Lower Upper

117 100

82 59.2 48.2 72.4

119 31.6 25.0 37.6

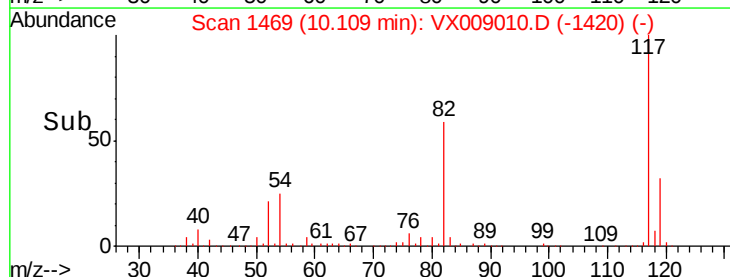


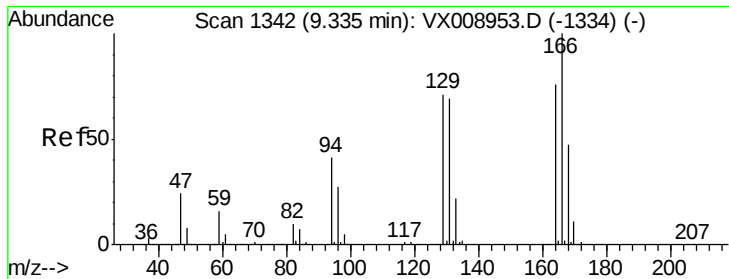
Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

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

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

Time-->





#64

Tetrachloroethene

Concen: 3.128 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

KY038PS035-190415

Tot Ion:164 Resp: 8475

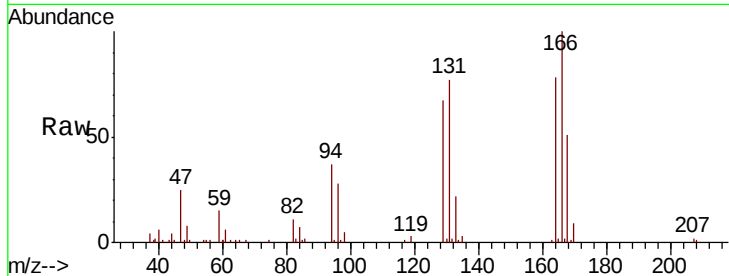
Ion Ratio Lower Upper

164 100

166 128.8 105.0 157.4

129 86.0 74.2 111.4

131 98.6 72.2 108.2



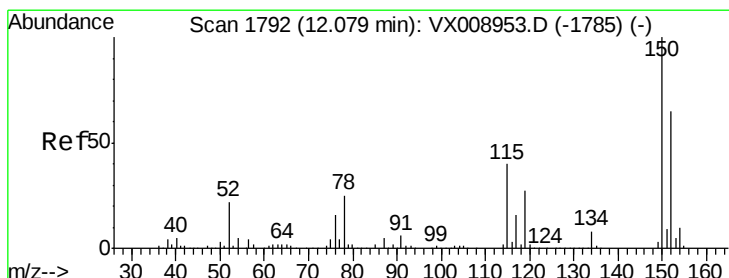
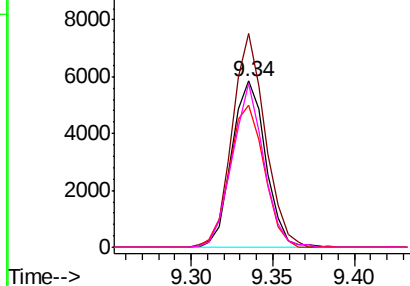
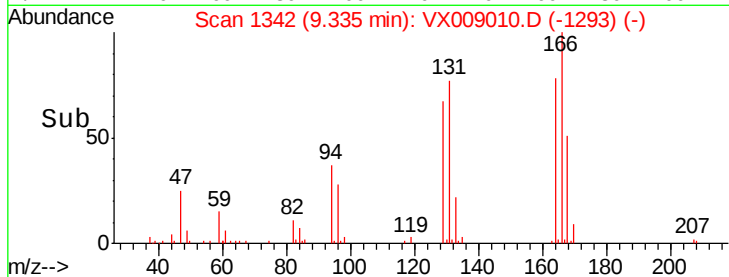
Abundance

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

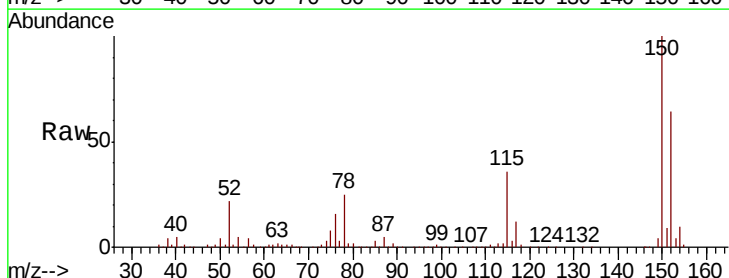
Tgt Ion:152 Resp: 151130

Ion Ratio Lower Upper

152 100

115 58.6 41.4 124.2

150 157.2 0.0 349.8

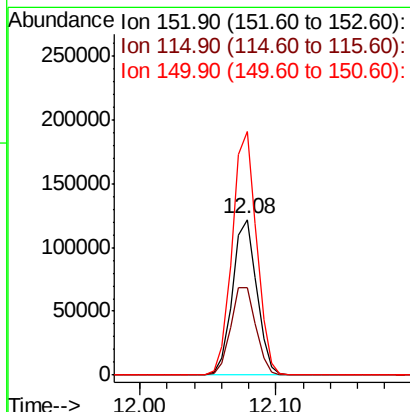
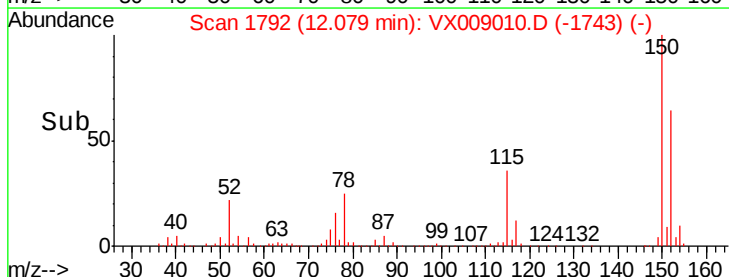


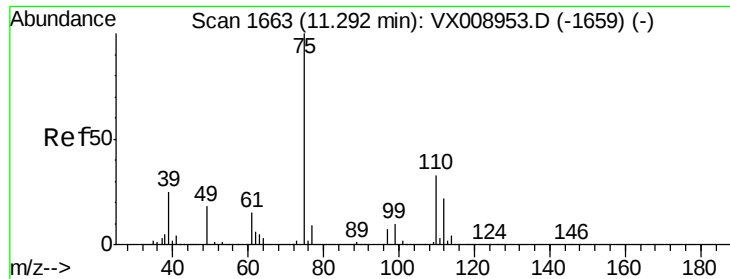
Abundance

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: 23.415 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

Instrument :

MSVOA_X

ClientSampleId :

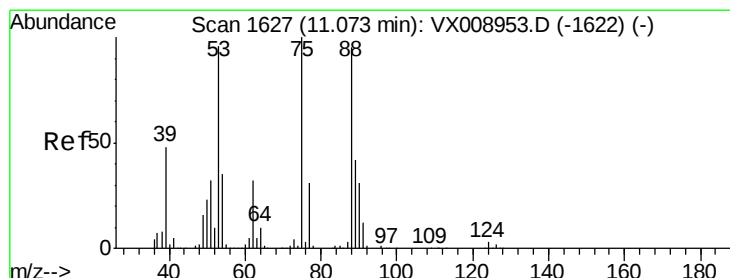
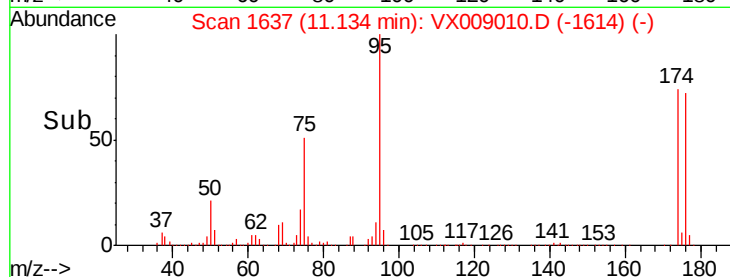
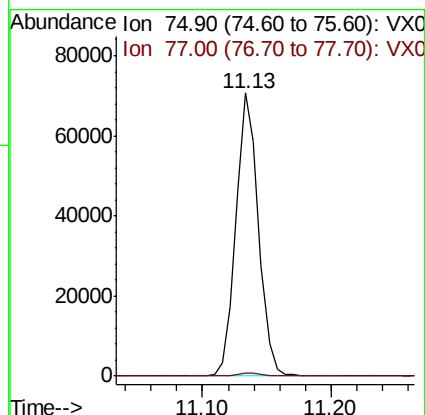
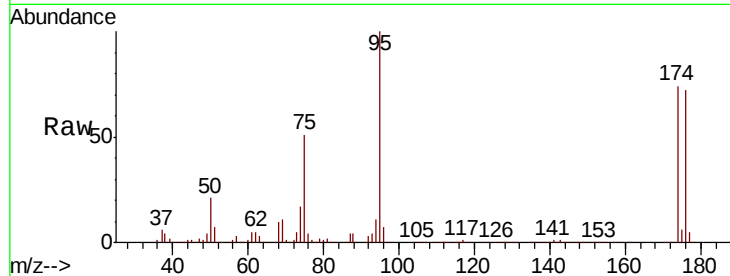
KY038PS035-190415

Tot Ion: 75 Resp: 86407

Ion Ratio Lower Upper

75 100

77 1.3 22.7 68.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.112 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009010.D

Acq: 17 Apr 2019 13:27

Tgt Ion: 75 Resp: 86407

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

