

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091118\
 Data File : VX004476.D
 Acq On : 11 Sep 2018 20:07
 Operator : JC/MD
 Sample : J4857-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS033-180910

Quant Time: Sep 12 05:53:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 15:21:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	196375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	313683	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	304080	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167230	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	141288	55.80	ug/l	0.00
Spiked Amount			Recovery	=	111.60%	
35) Dibromofluoromethane	5.51	113	124188	43.26	ug/l	0.00
Spiked Amount			Recovery	=	86.52%	
50) Toluene-d8	8.72	98	454036	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
62) 4-Bromofluorobenzene	11.14	95	159970	46.56	ug/l	0.00
Spiked Amount			Recovery	=	93.12%	

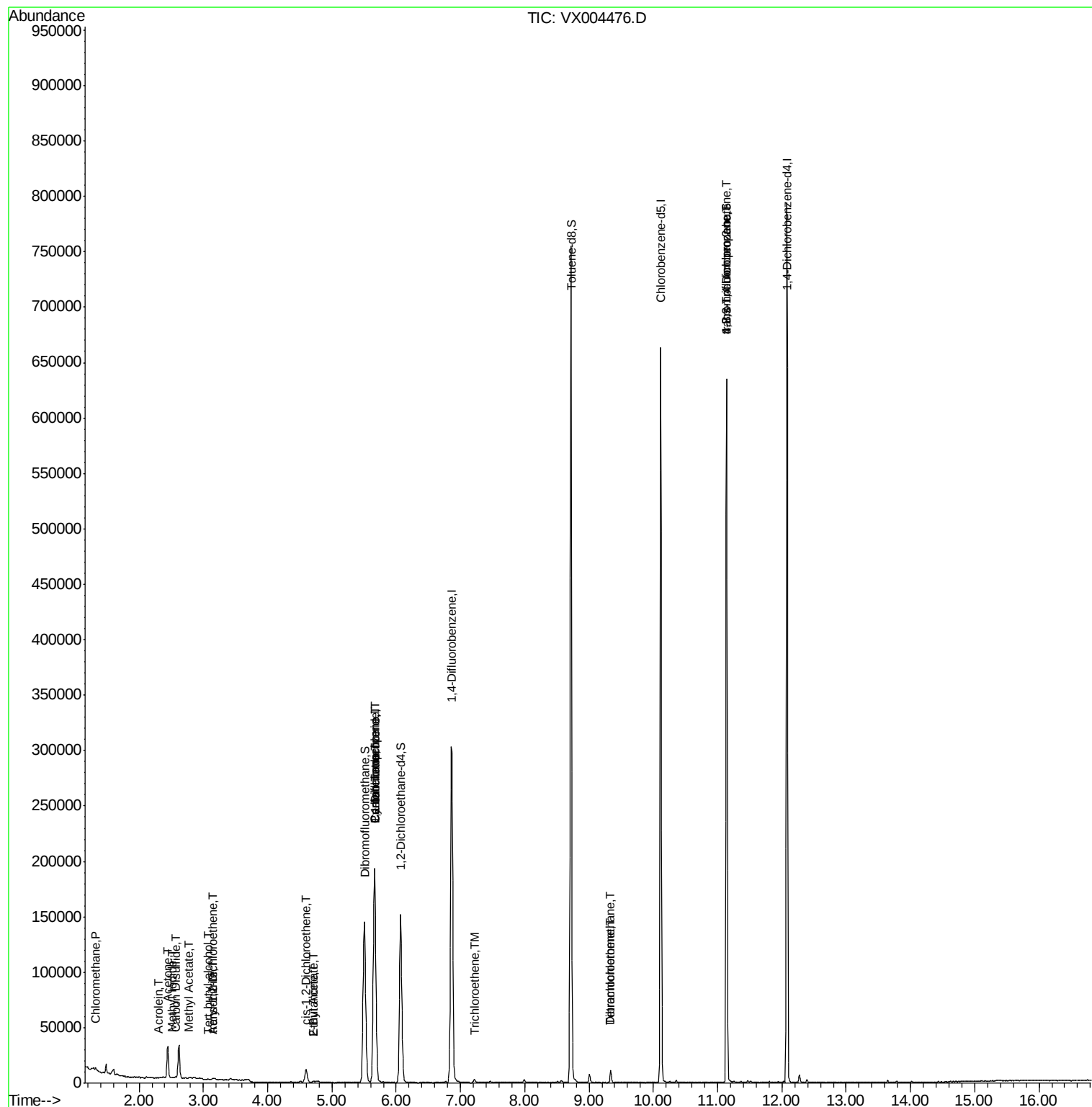
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1035	0.41	ug/l	99
5) Bromomethane	1.65	94	1174	Below Cal		85
10) Methyl Iodide	2.53	142	874	4.56	ug/l #	92
11) Tert butyl alcohol	3.07	59	926	1.53	ug/l #	79
13) Acrolein	2.29	56	173	0.73	ug/l #	44
15) Acrylonitrile	3.14	53	332	0.23	ug/l	86
16) Acetone	2.45	43	30796	24.92	ug/l	100
17) Carbon Disulfide	2.57	76	1389	0.23	ug/l #	82
18) Methyl Acetate	2.78	43	871	0.25	ug/l #	89
21) trans-1,2-Dichloroethene	3.15	96	508	0.22	ug/l #	63
25) 2-Butanone	4.71	43	2649	1.35	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	7367	2.91	ug/l	94
31) Cyclohexane	5.67	56	3757	1.03	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13546	3.56	ug/l #	50
37) Ethyl Acetate	4.71	43	2649	0.61	ug/l #	67
38) Carbon Tetrachloride	5.66	117	17393	4.68	ug/l #	18
44) Trichloroethene	7.22	130	1156	0.39	ug/l	76
60) Dibromochloromethane	9.34	129	2185	0.81	ug/l #	11
64) Tetrachloroethene	9.34	164	2334	0.61	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	77060	23.58	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	77060	73.01	ug/l #	10

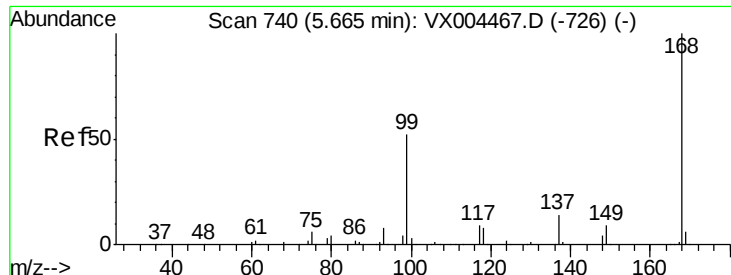
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004476.D

Acq: 11 Sep 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

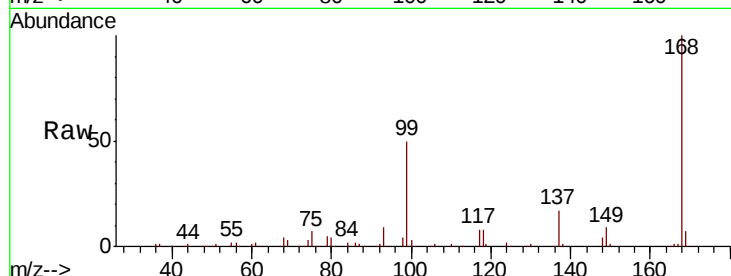
KY038PS033-180910

Tot Ion:168 Resp: 196375

Ion Ratio Lower Upper

168 100

99 50.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

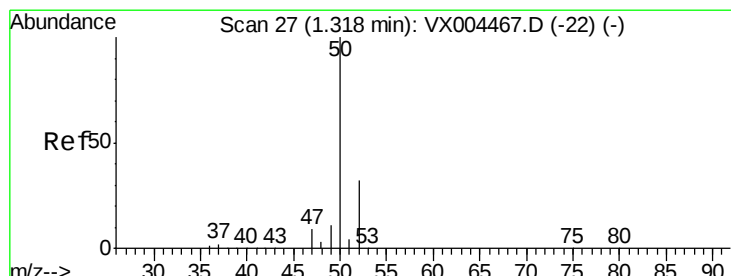
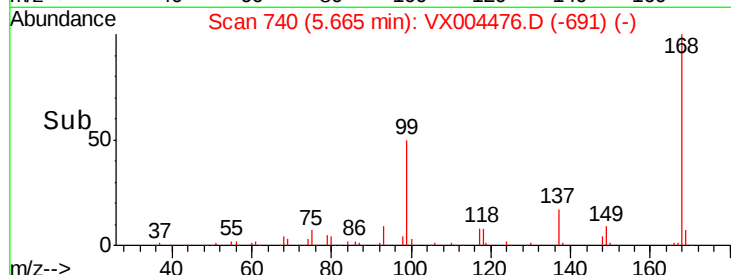
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.41 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004476.D

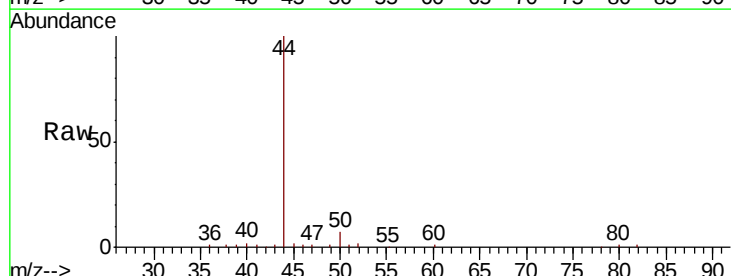
Acq: 11 Sep 2018 20:07

Tgt Ion: 50 Resp: 1035

Ion Ratio Lower Upper

50 100

52 32.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

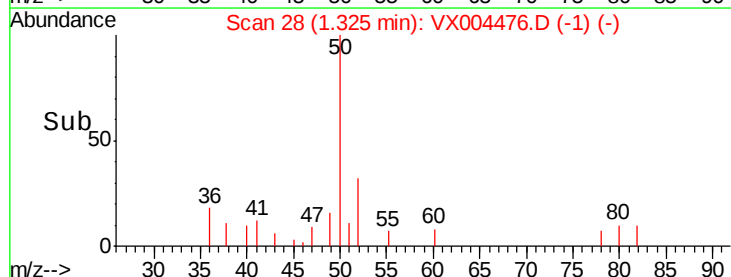
600

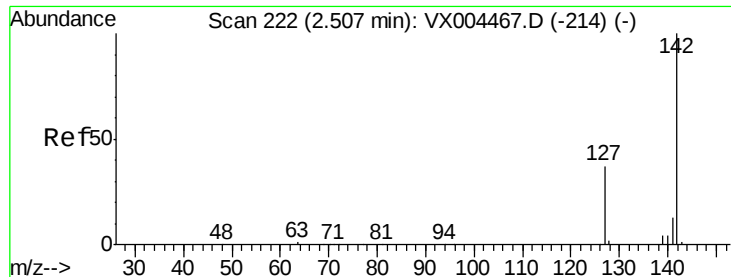
400

200

0

Time--> 1.30 1.35

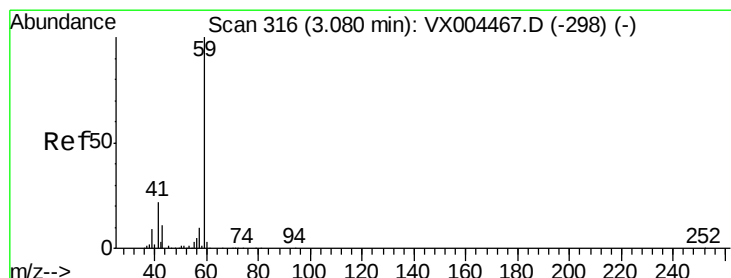
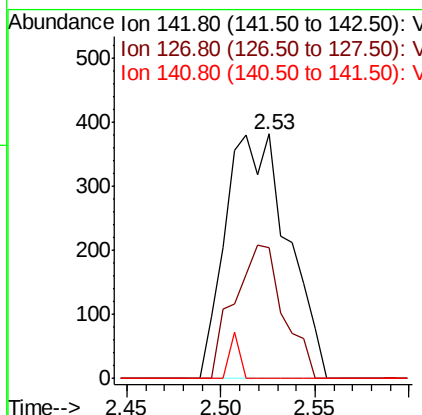
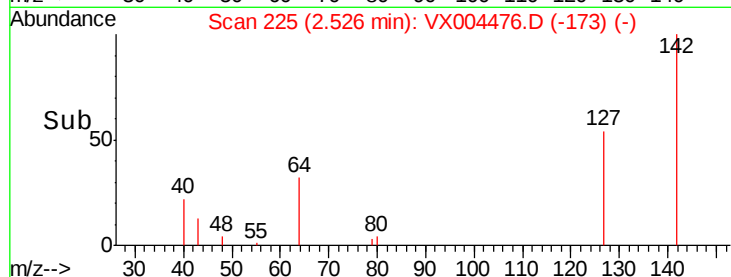
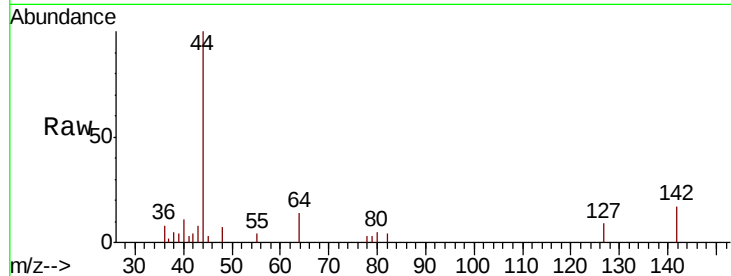




#10
Methvl Iodide
Concen: 4.56 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

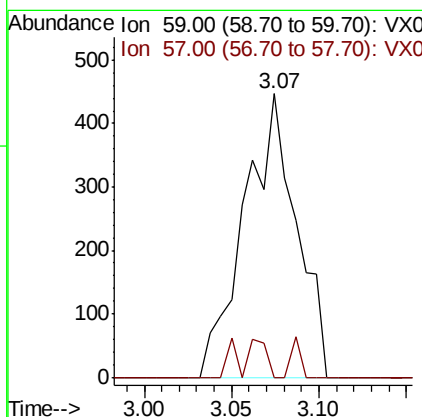
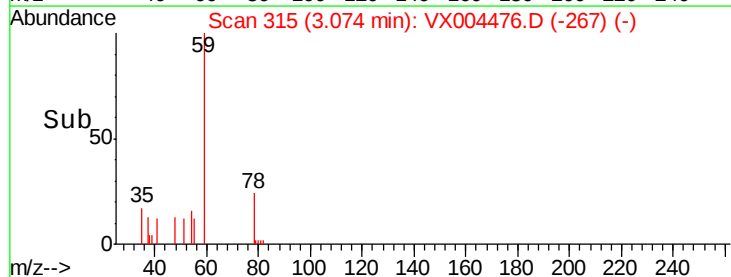
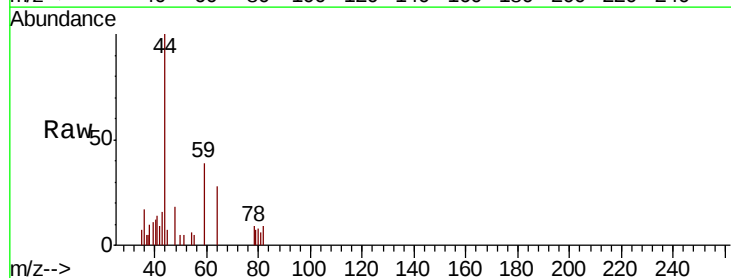
Instrument :
MSVOA_X
ClientSampleId :
KY038PS033-180910

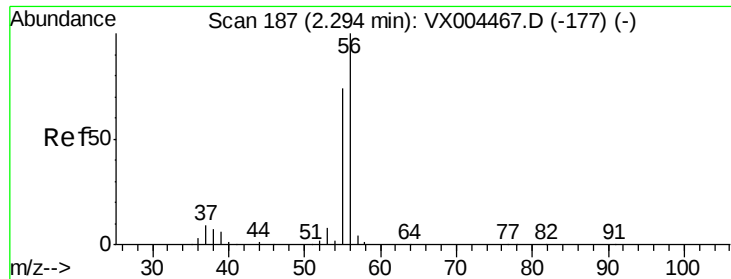
Tot Ion:142 Resp: 874
Ion Ratio Lower Upper
142 100
127 42.9 33.8 50.6
141 3.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.53 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

Tgt Ion: 59 Resp: 926
Ion Ratio Lower Upper
59 100
57 2.5 8.2 12.4#





#13

Acrolein

Concen: 0.73 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX004476.D

Acq: 11 Sep 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

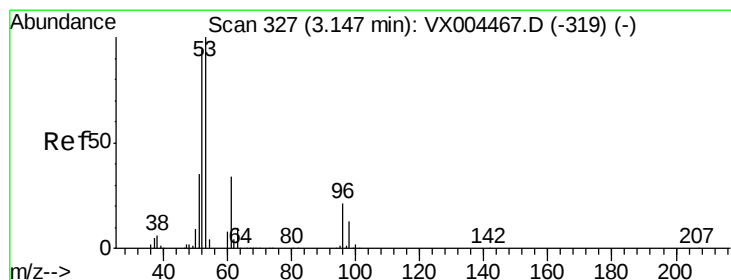
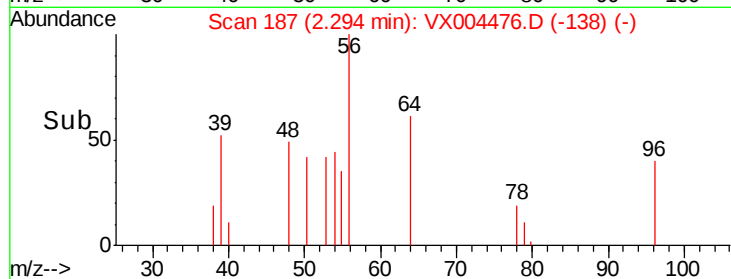
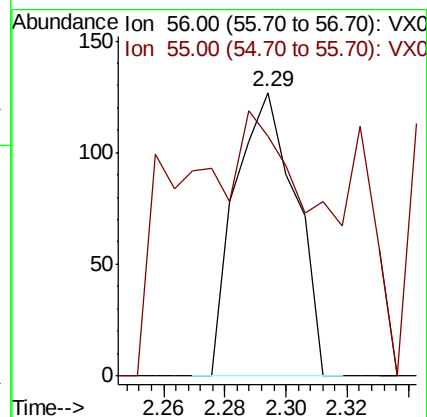
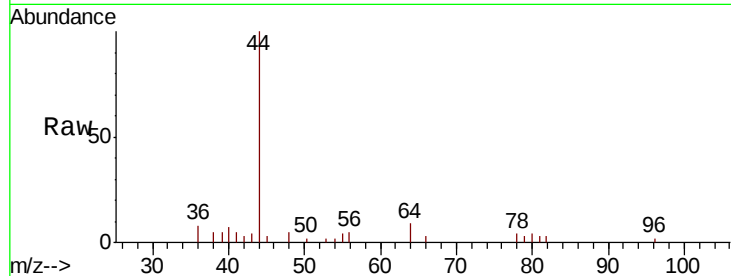
KY038PS033-180910

Tot Ion: 56 Resp: 173

Ion Ratio Lower Upper

56 100

55 113.9 54.7 82.1#



#15

Acrylonitrile

Concen: 0.23 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX004476.D

Acq: 11 Sep 2018 20:07

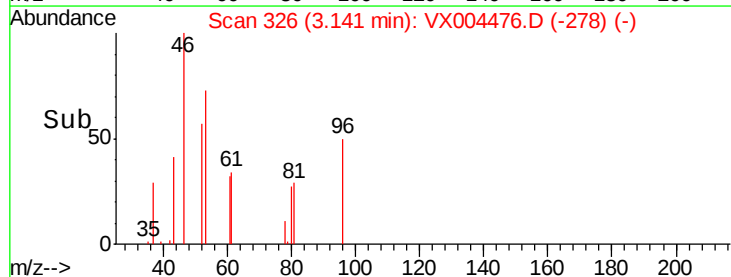
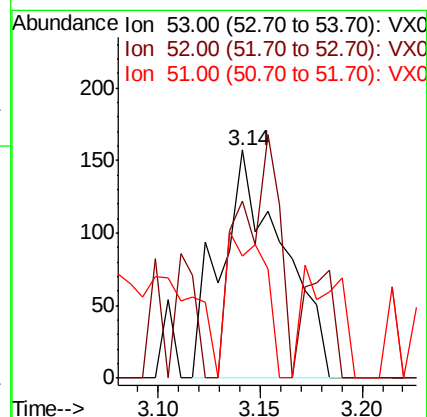
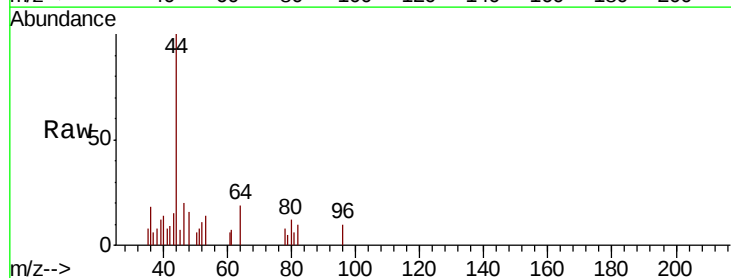
Tgt Ion: 53 Resp: 332

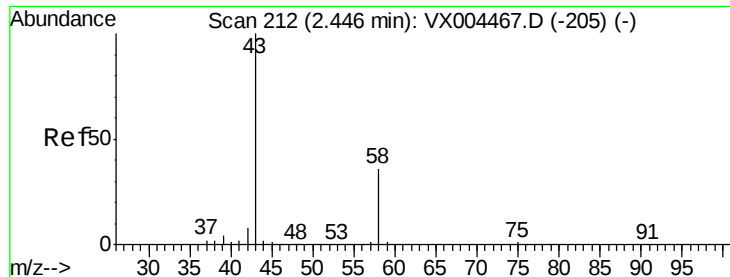
Ion Ratio Lower Upper

53 100

52 66.6 65.2 97.8

51 38.9 28.2 42.2

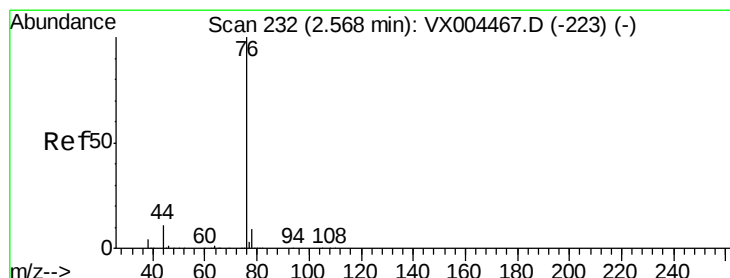
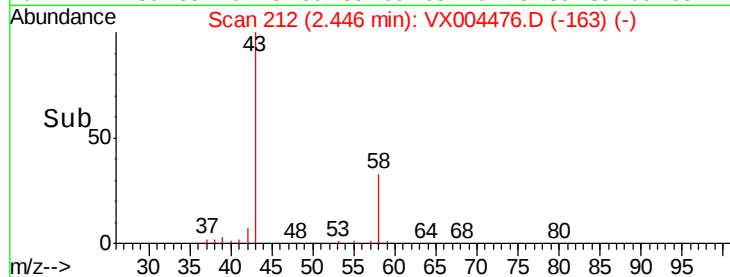
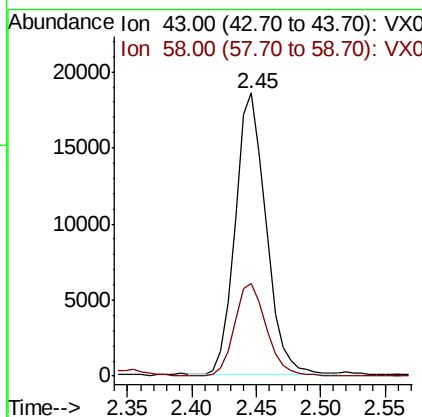
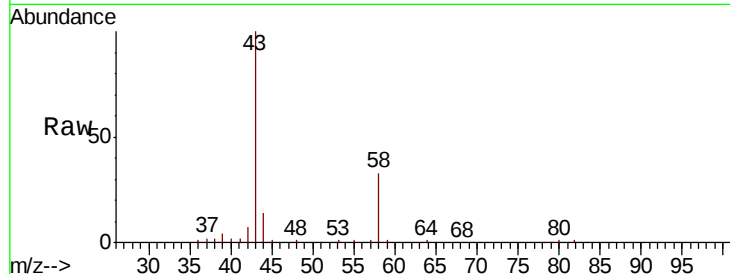




#16
Acetone
Concen: 24.92 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

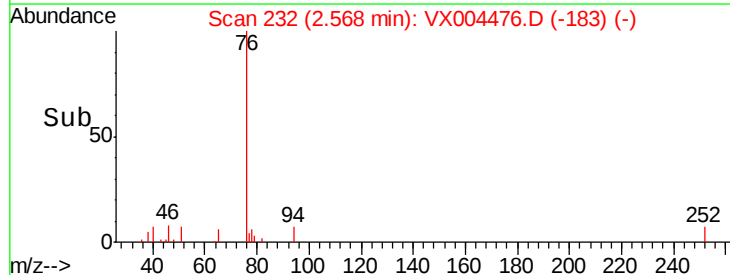
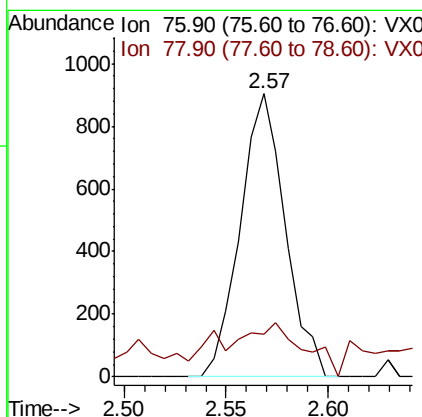
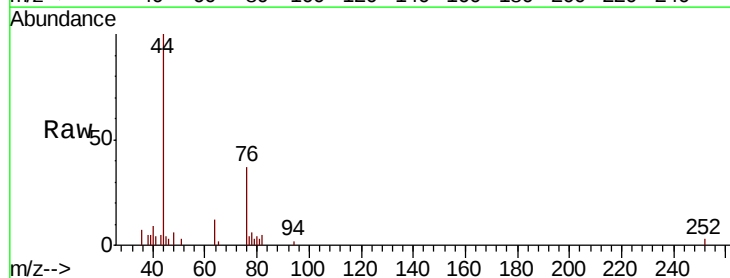
Instrument :
MSVOA_X
ClientSampleId :
KY038PS033-180910

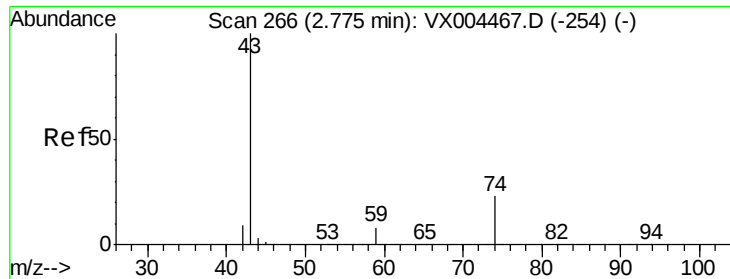
Tot Ion: 43 Resp: 30796
Ion Ratio Lower Upper
43 100
58 32.9 26.2 39.4



#17
Carbon Disulfide
Concen: 0.23 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

Tgt Ion: 76 Resp: 1389
Ion Ratio Lower Upper
76 100
78 15.3 7.0 10.6#

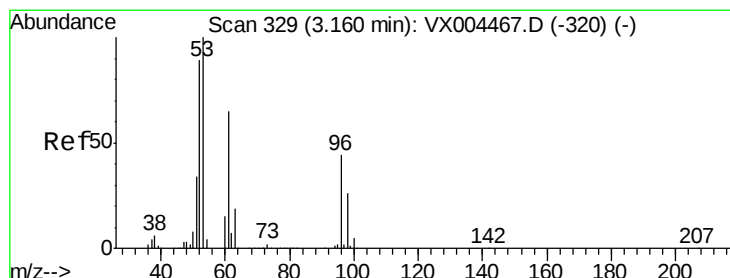
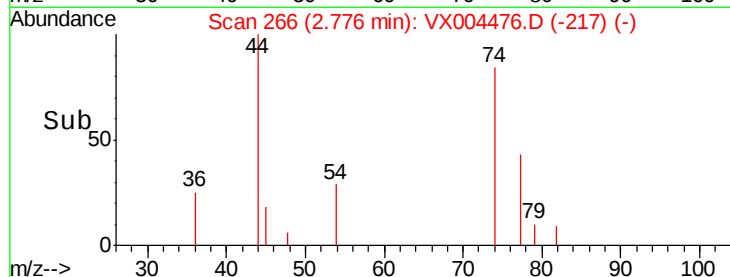
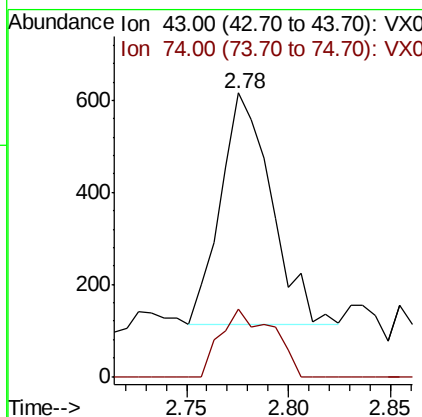
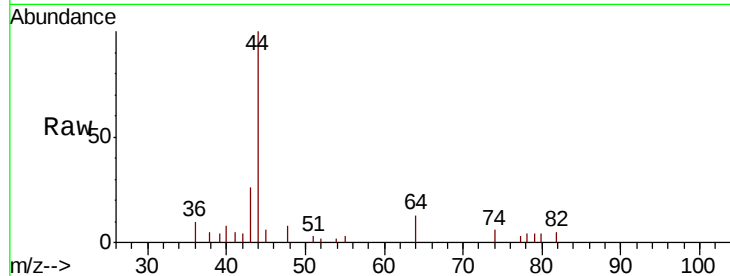




#18
Methyl Acetate
Concen: 0.25 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

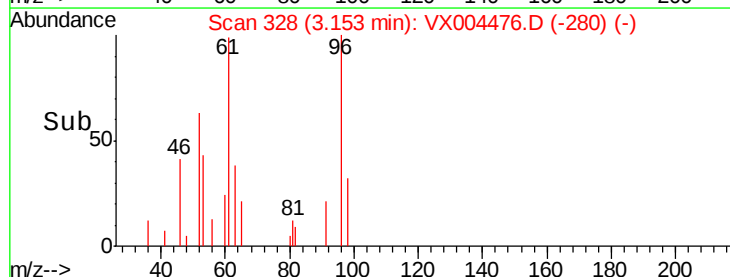
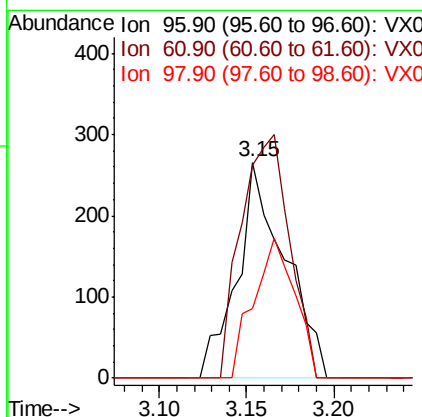
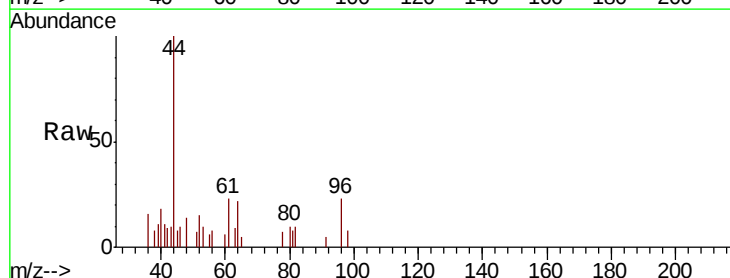
Instrument :
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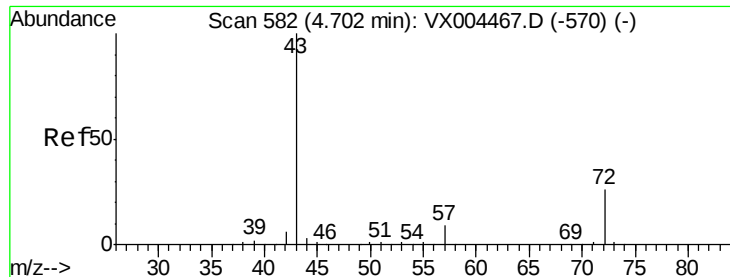
Tot Ion: 43 Resp: 871
Ion Ratio Lower Upper
43 100
74 29.9 19.4 29.2#



#21
trans-1,2-Dichloroethene
Concen: 0.22 ug/l
RT: 3.15 min Scan# 328
Delta R.T. -0.01 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

Tgt Ion: 96 Resp: 508
Ion Ratio Lower Upper
96 100
61 98.9 113.8 170.6#
98 32.3 51.8 77.8#





#25

2-Butanone

Concen: 1.35 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004476.D

Acq: 11 Sep 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

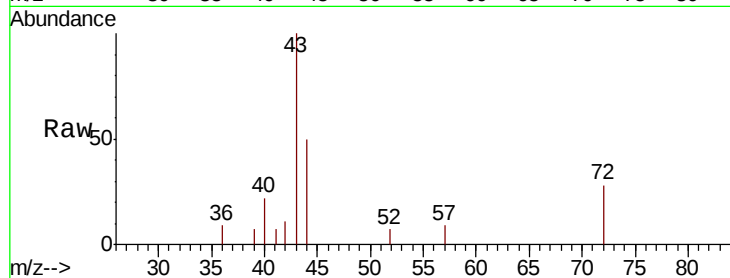
KY038PS033-180910

Tot Ion: 43 Resp: 2649

Ion Ratio Lower Upper

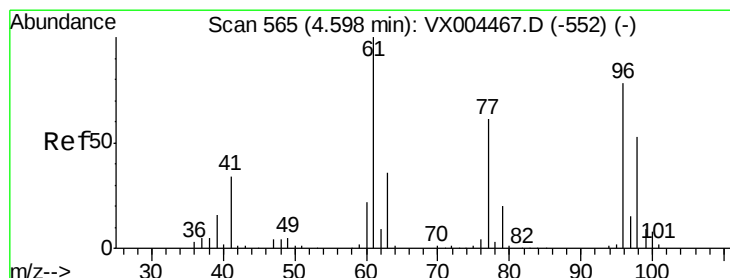
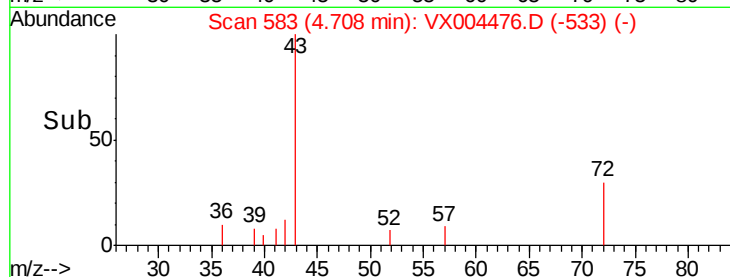
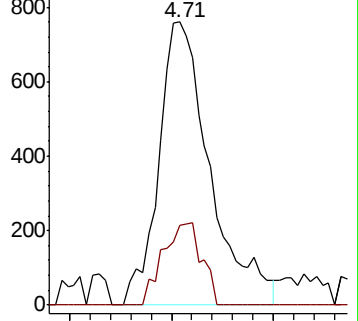
43 100

72 28.2 22.0 33.0



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: 2.91 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX004476.D

Acq: 11 Sep 2018 20:07

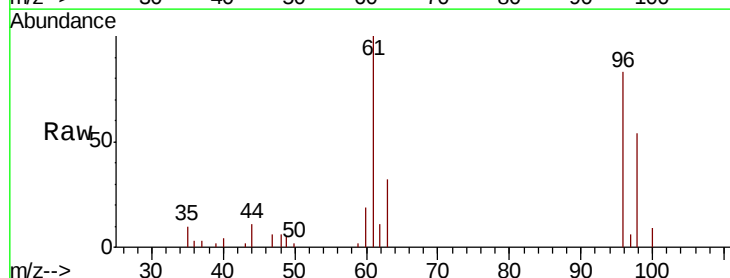
Tgt Ion: 96 Resp: 7367

Ion Ratio Lower Upper

96 100

61 131.4 0.0 282.6

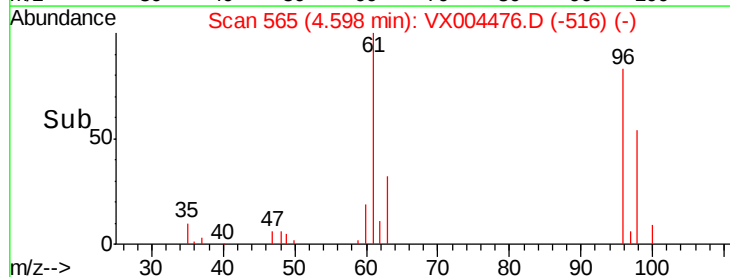
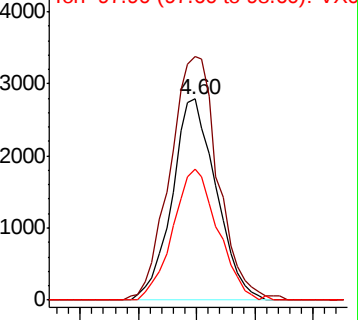
98 66.3 0.0 130.2

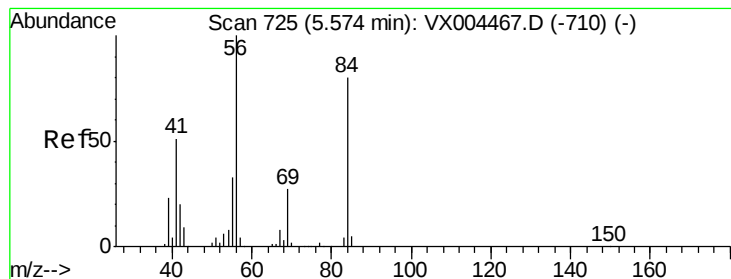


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.03 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX004476.D

Acq: 11 Sep 2018 20:07

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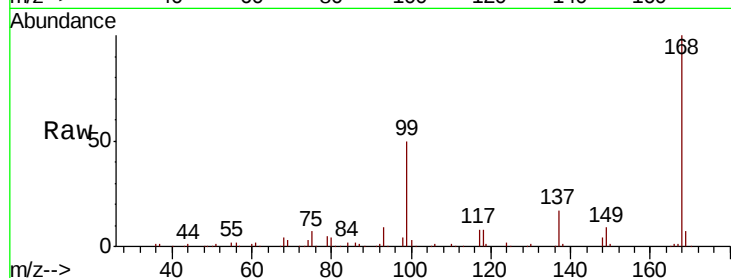
Tot Ion: 56 Resp: 3757

Ion Ratio Lower Upper

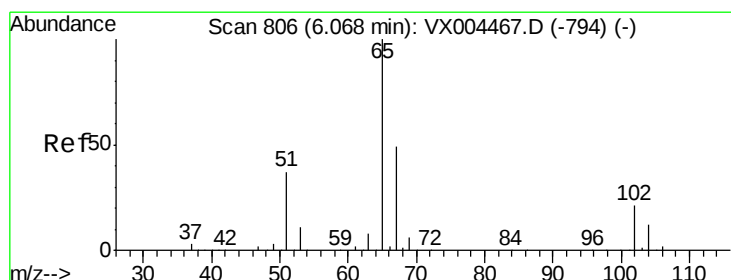
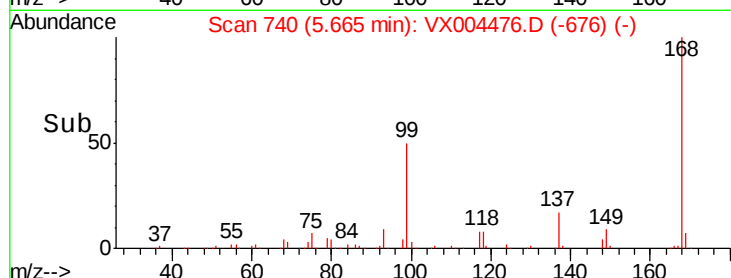
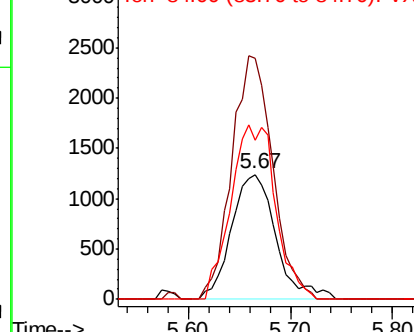
56 100

69 193.1 25.4 38.2#

84 127.8 71.4 107.2#



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: 55.80 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004476.D

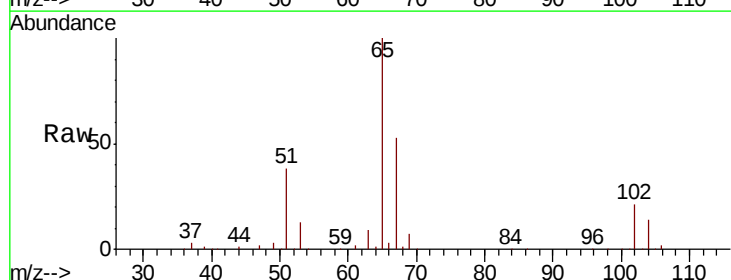
Acq: 11 Sep 2018 20:07

Tgt Ion: 65 Resp: 141288

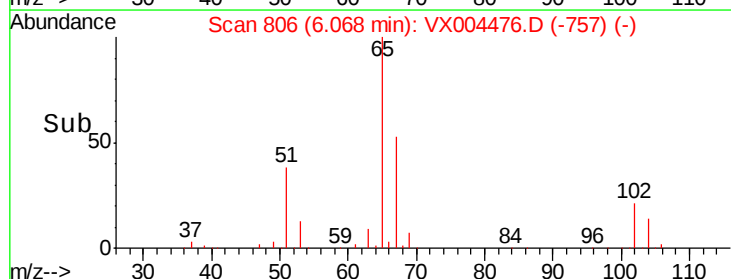
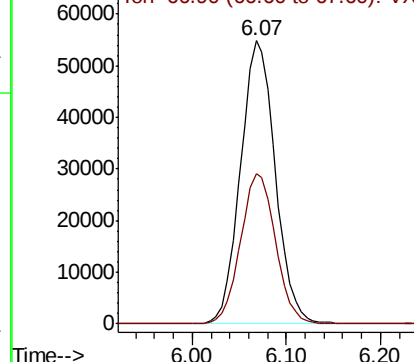
Ion Ratio Lower Upper

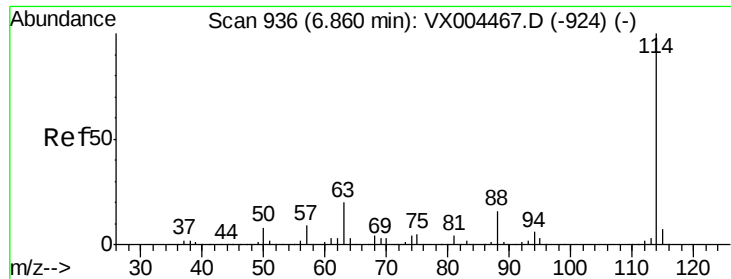
65 100

67 53.7 0.0 106.8



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

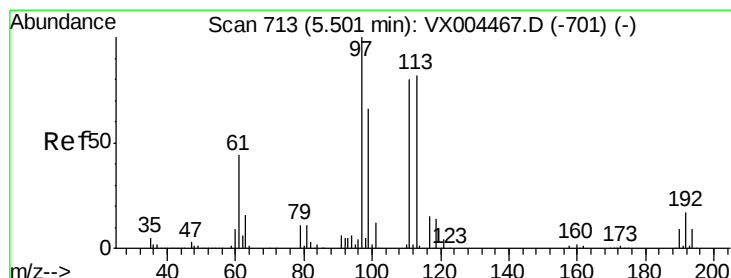
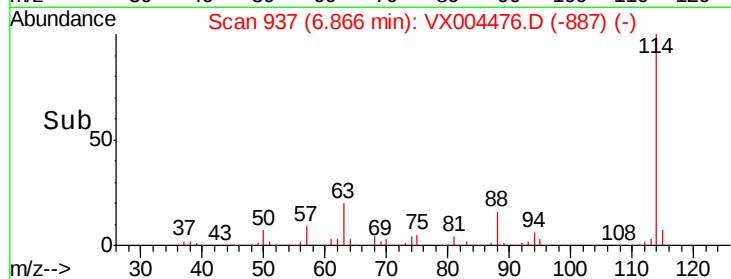
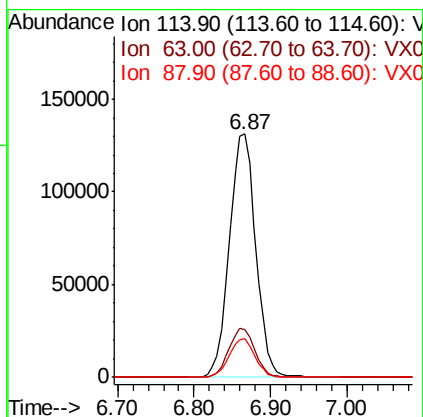
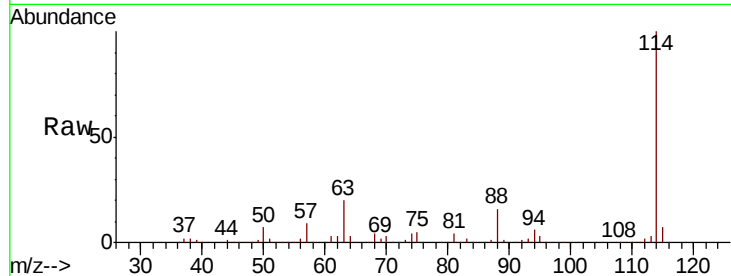




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004476.D
 Acq: 11 Sep 2018 20:07

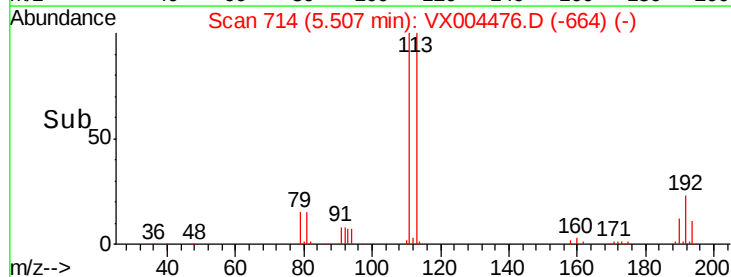
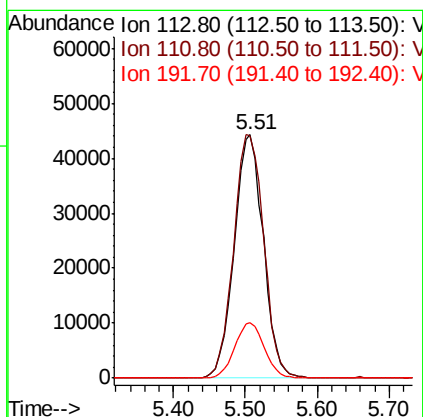
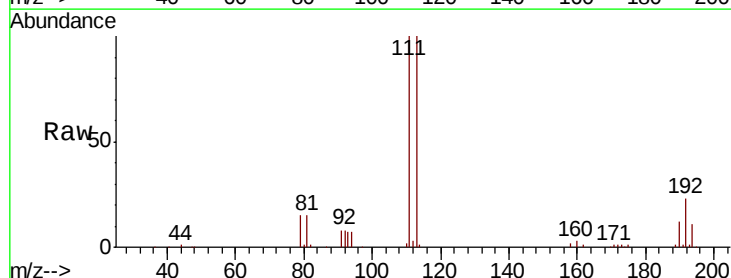
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS033-180910

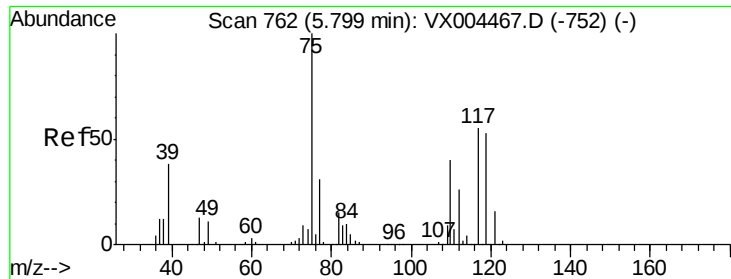
Tot Ion:114 Resp: 313683
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.0
 88 15.8 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 43.26 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004476.D
 Acq: 11 Sep 2018 20:07

Tgt Ion:113 Resp: 124188
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.4 123.6
 192 23.0 19.4 29.2

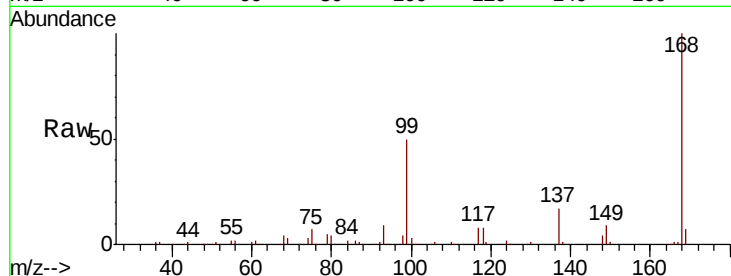




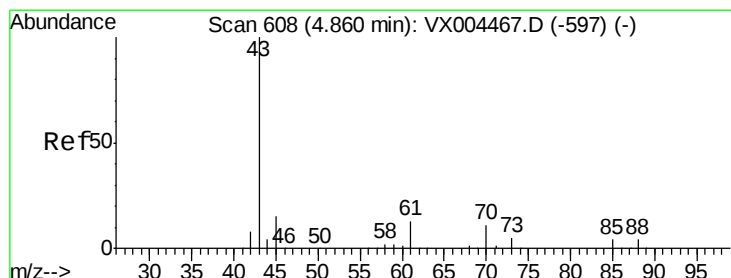
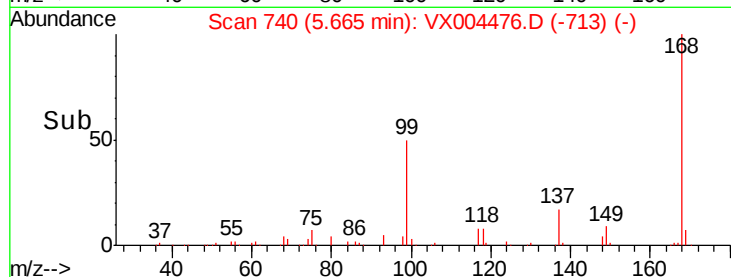
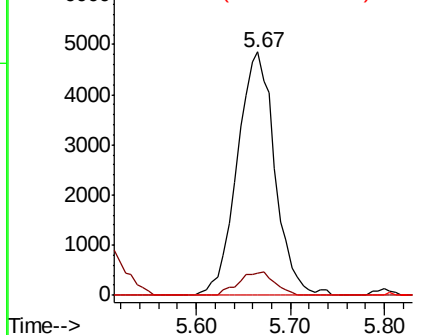
#36
 1,1-Dichloropropene
 Concen: 3.56 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004476.D
 Acq: 11 Sep 2018 20:07

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS033-180910

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.0	54.0#
77	0.0	24.6	36.8#

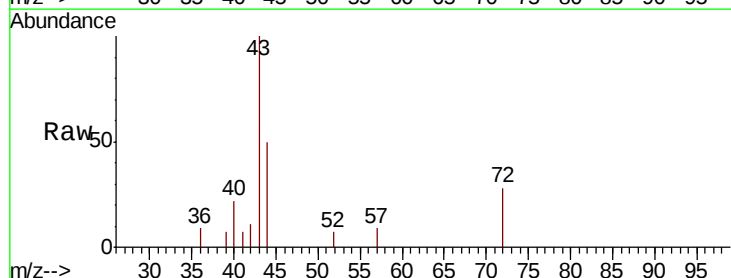


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

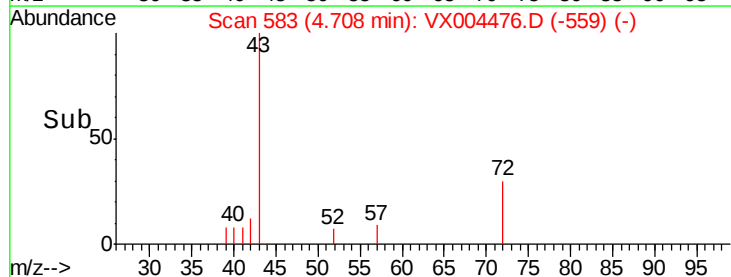
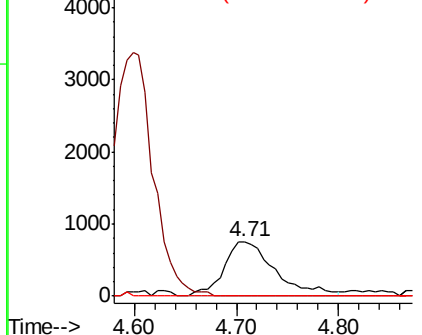


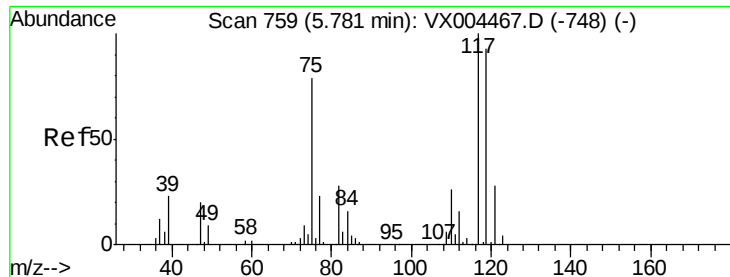
#37
 Ethyl Acetate
 Concen: 0.61 ug/l
 RT: 4.71 min Scan# 583
 Delta R.T. -0.15 min
 Lab File: VX004476.D
 Acq: 11 Sep 2018 20:07

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	0.0	9.0	13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 4.68 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004476.D

Acq: 11 Sep 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

KY038PS033-180910

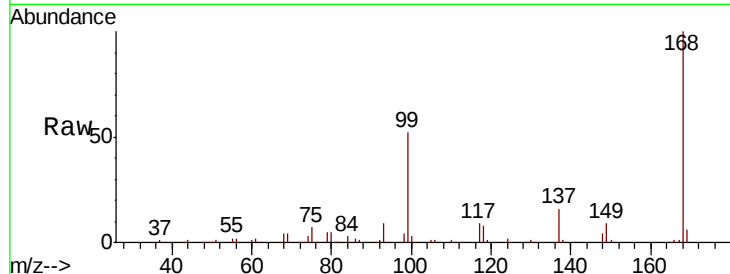
Tot Ion:117 Resp: 17393

Ion Ratio Lower Upper

117 100

119 9.6 78.8 118.2#

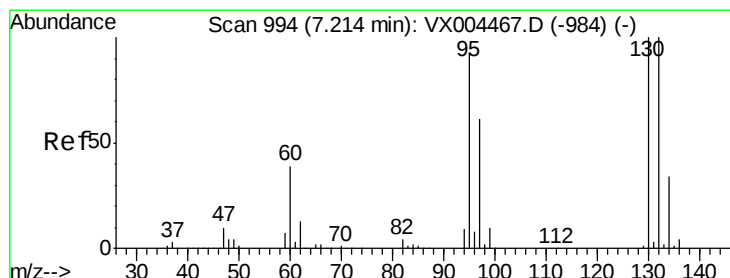
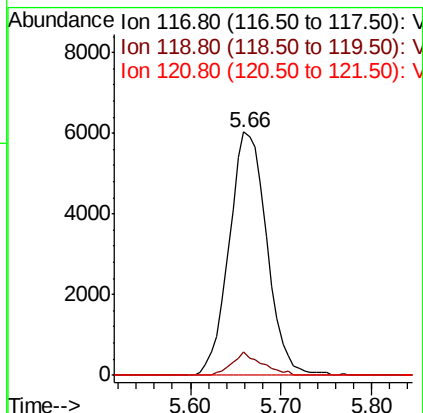
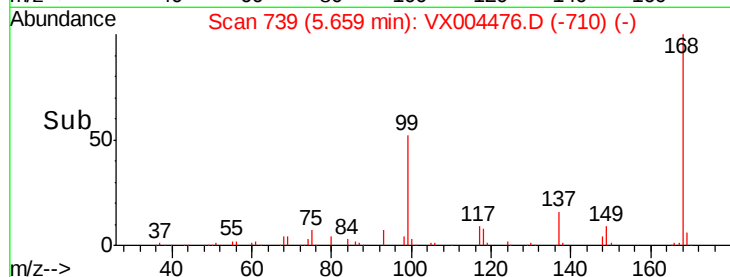
121 0.0 24.9 37.3#



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: 0.39 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX004476.D

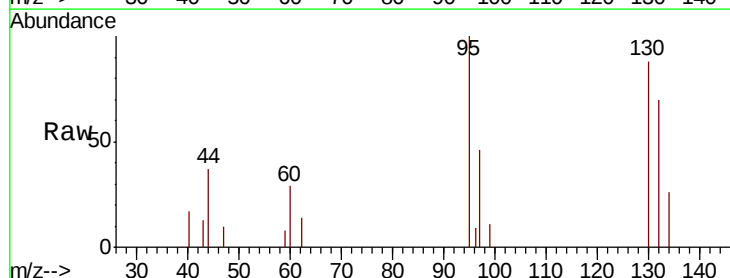
Acq: 11 Sep 2018 20:07

Tgt Ion:130 Resp: 1156

Ion Ratio Lower Upper

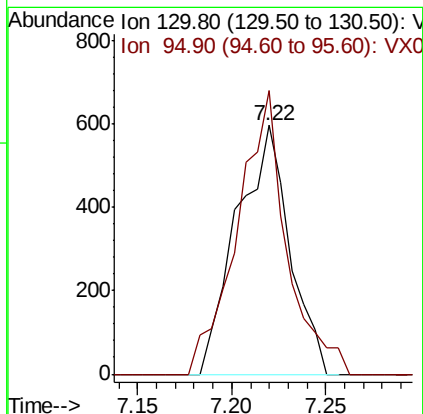
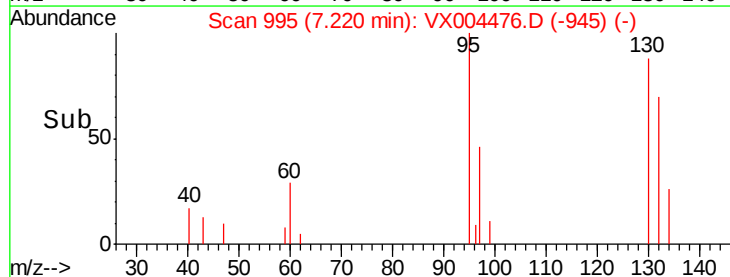
130 100

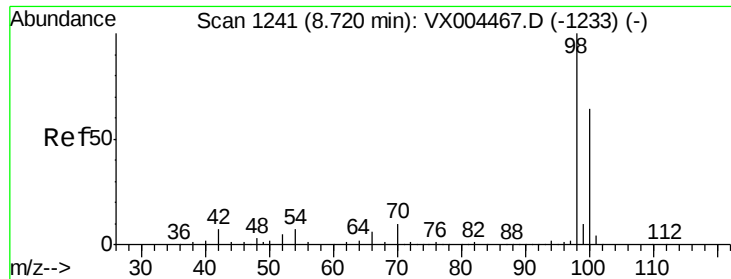
95 113.9 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

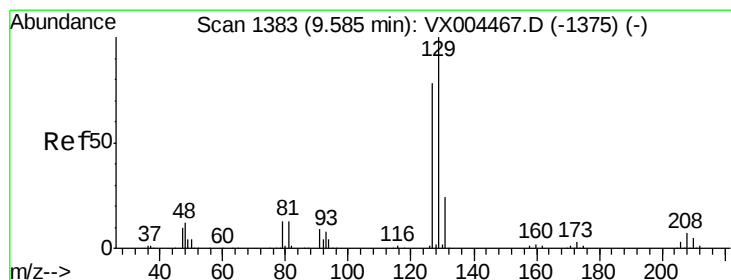
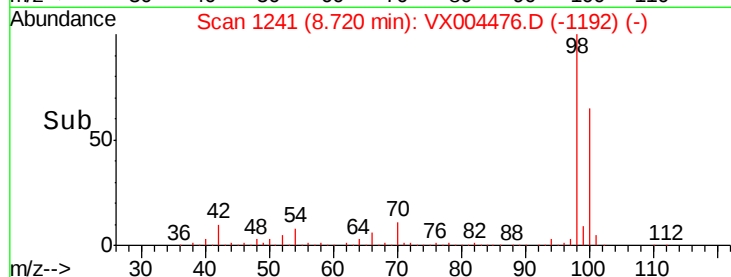
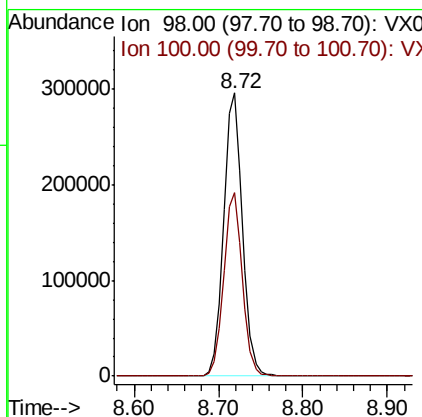
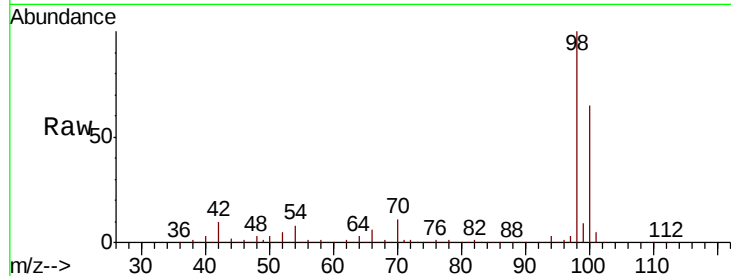




#50
Toluene-d8
Concen: 47.17 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

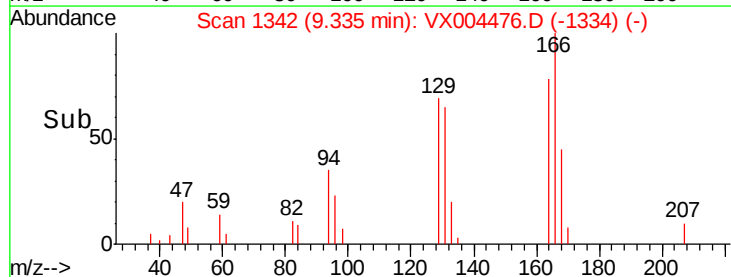
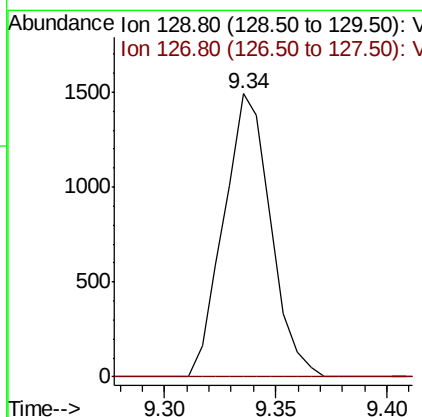
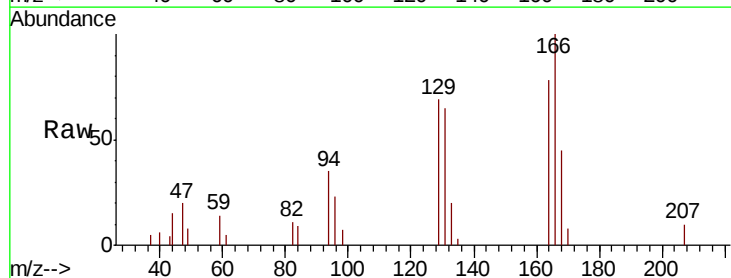
Instrument :
MSVOA_X
ClientSampleId :
KY038PS033-180910

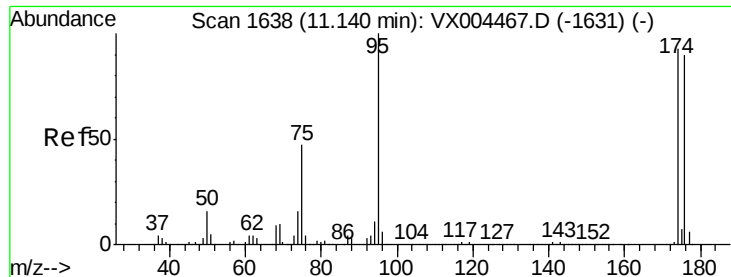
Tot Ion: 98 Resp: 454036
Ion Ratio Lower Upper
98 100
100 64.4 52.9 79.3



#60
Dibromochloromethane
Concen: 0.81 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.25 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

Tgt Ion: 129 Resp: 2185
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#

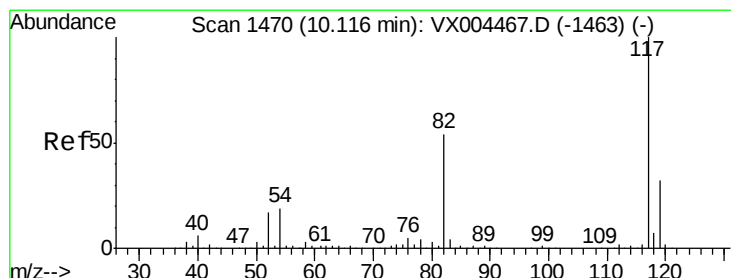
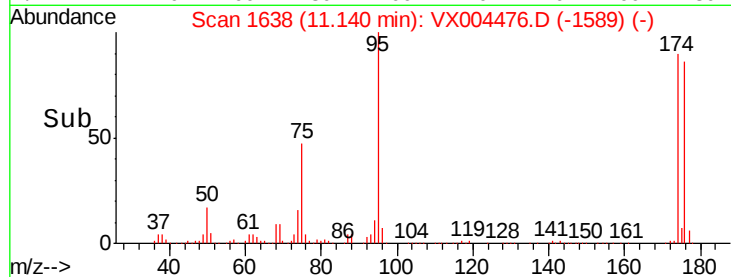
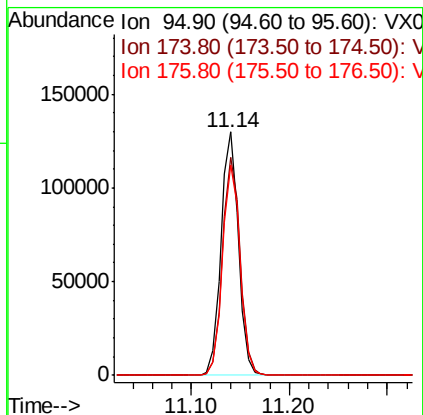
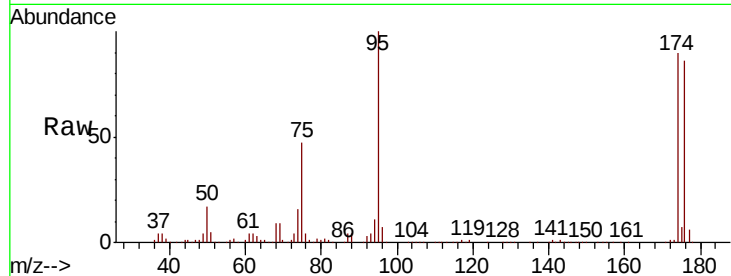




#62
4-Bromofluorobenzene
Concen: 46.56 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

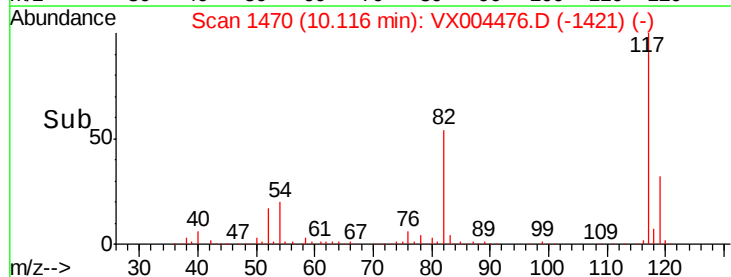
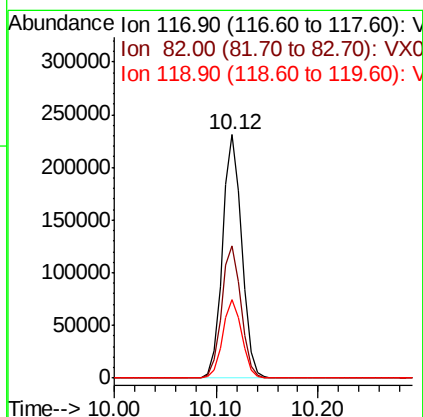
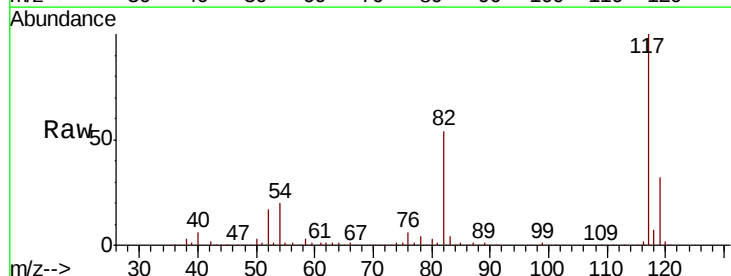
Instrument :
MSVOA_X
ClientSampleId :
KY038PS033-180910

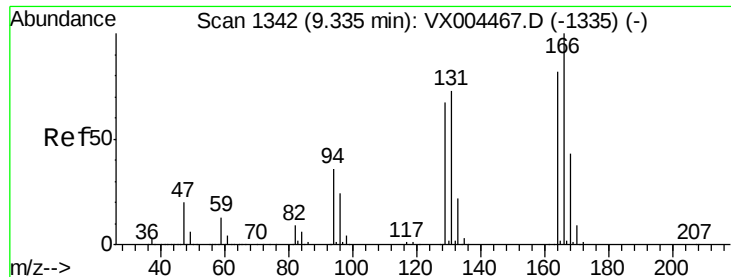
Tot Ion: 95 Resp: 159970
Ion Ratio Lower Upper
95 100
174 91.3 0.0 185.2
176 87.9 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

Tgt Ion: 117 Resp: 304080
Ion Ratio Lower Upper
117 100
82 54.4 47.8 71.6
119 32.1 29.3 43.9

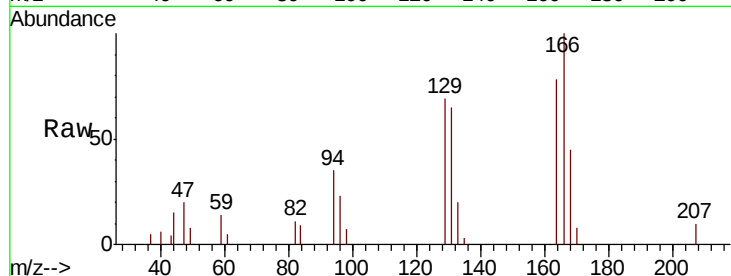




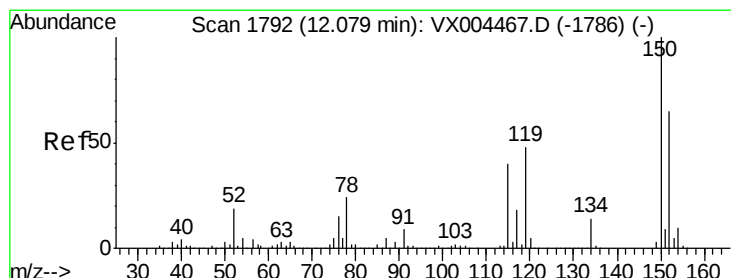
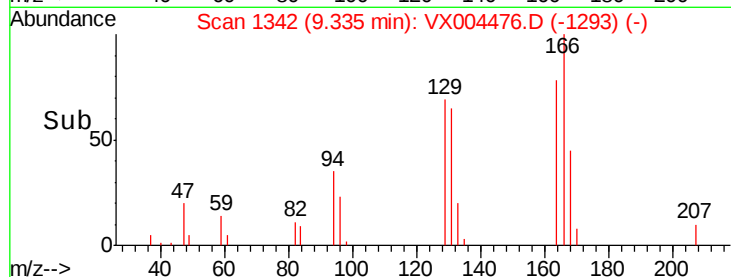
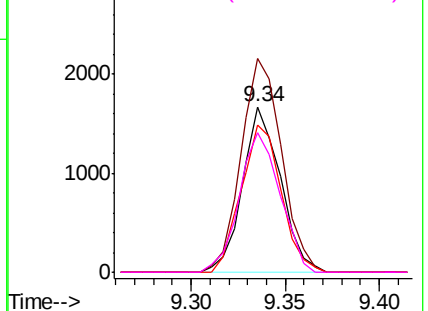
#64
Tetrachloroethene
Concen: 0.61 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

Instrument :
MSVOA_X
ClientSampleId :
KY038PS033-180910

Tot Ion:164 Resp: 2334
Ion Ratio Lower Upper
164 100
166 128.9 102.8 154.2
129 89.1 69.4 104.0
131 84.3 67.9 101.9

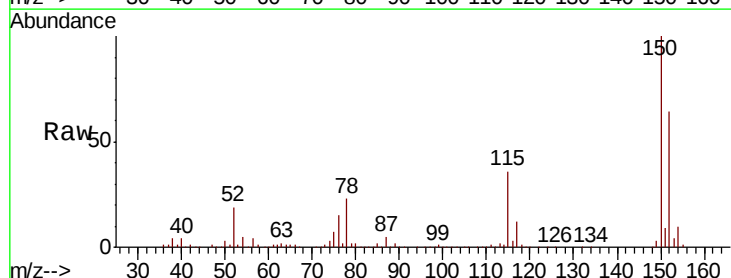


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

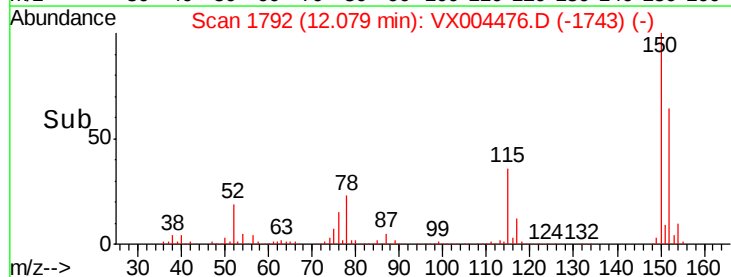
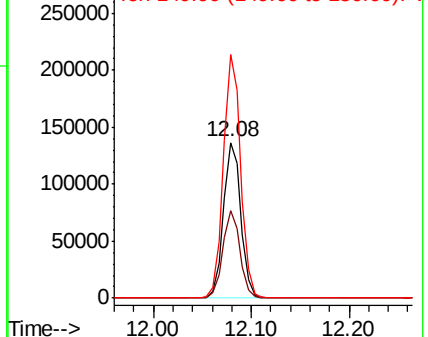


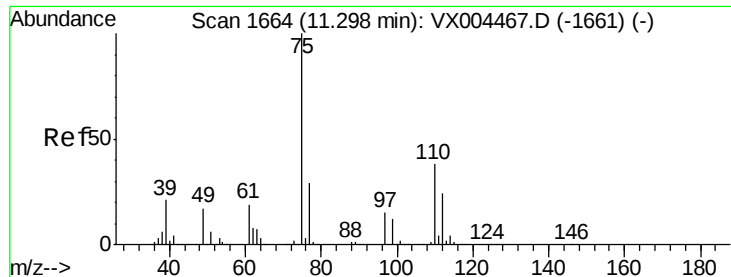
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004476.D
Acq: 11 Sep 2018 20:07

Tgt Ion:152 Resp: 167230
Ion Ratio Lower Upper
152 100
115 55.5 39.0 117.0
150 156.0 0.0 351.0



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: 23.58 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004476.D

Acq: 11 Sep 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

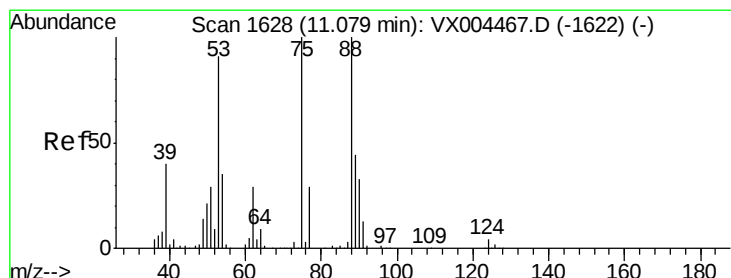
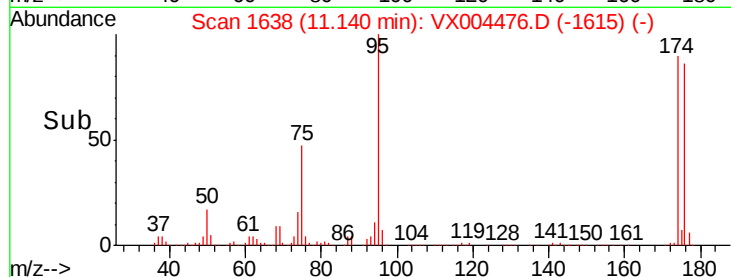
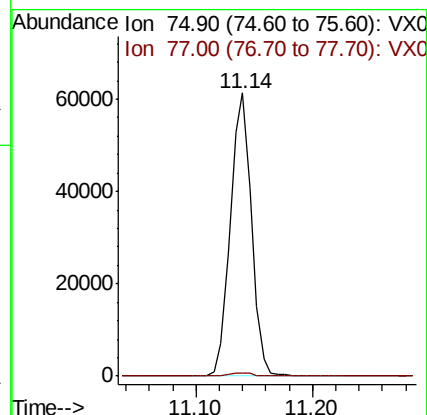
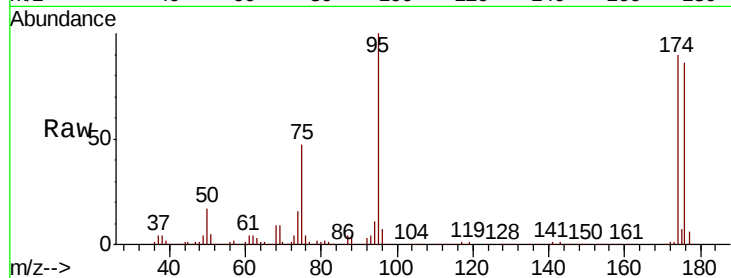
KY038PS033-180910

Tot Ion: 75 Resp: 77060

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.01 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004476.D

Acq: 11 Sep 2018 20:07

Tgt Ion: 75 Resp: 77060

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

