

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004082.D
 Acq On : 15 Aug 2018 19:34
 Operator : JC/MD
 Sample : J4473-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS034-180813

Quant Time: Aug 16 05:53:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257384	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	389595	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	370877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	186404	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	187920	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
35) Dibromofluoromethane	5.51	113	157885	54.15	ug/l	0.00
Spiked Amount			Recovery	=	108.30%	
50) Toluene-d8	8.72	98	560923	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	
62) 4-Bromofluorobenzene	11.14	95	184871	43.12	ug/l	0.00
Spiked Amount			Recovery	=	86.24%	

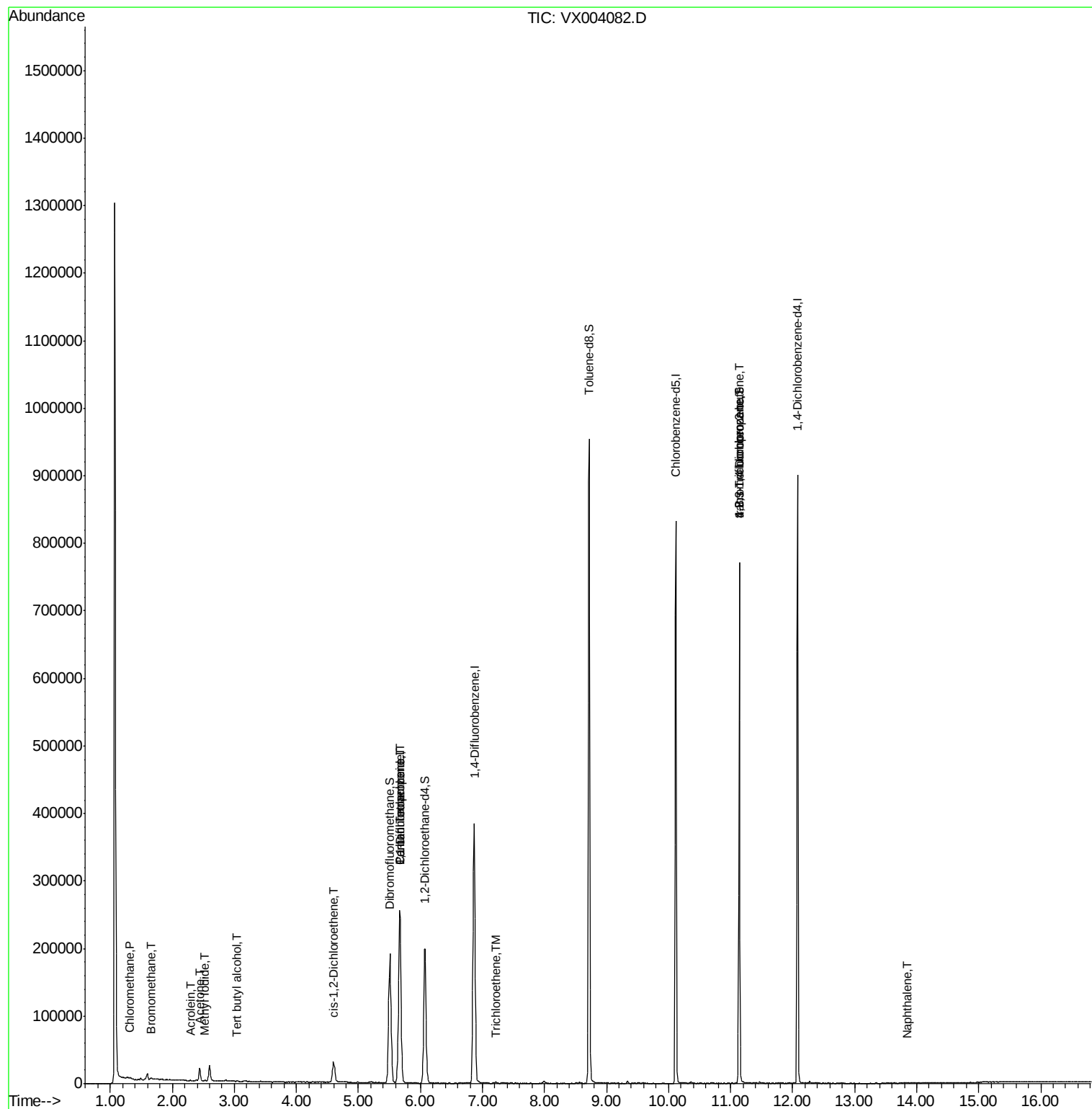
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1111	0.36	ug/l	# 77
5) Bromomethane	1.65	94	951	0.39	ug/l	# 93
6) Chloroethane	1.65	64	714	Below Cal	#	42
10) Methyl Iodide	2.52	142	667	5.20	ug/l	# 82
11) Tert butyl alcohol	3.04	59	595	0.81	ug/l	# 85
13) Acrolein	2.29	56	63	11.07	ug/l	# 61
16) Acetone	2.44	43	20695	10.98	ug/l	# 95
20) Methylene Chloride	2.85	84	541	Below Cal	#	88
27) cis-1,2-Dichloroethene	4.60	96	19569	5.66	ug/l	# 95
36) 1,1-Dichloropropene	5.66	75	17580	3.97	ug/l	# 41
38) Carbon Tetrachloride	5.67	117	23285	5.41	ug/l	# 15
44) Trichloroethene	7.22	130	730	0.20	ug/l	# 69
76) 1,2,3-Trichloropropane	11.14	75	90194	24.13	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	90194	74.69	ug/l	# 10
95) Naphthalene	13.84	128	387	1.17	ug/l	# 84

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

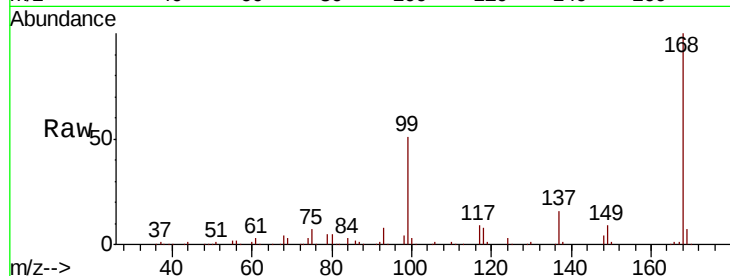
KY038PS034-180813

Tot Ion:168 Resp: 257384

Ion Ratio Lower Upper

168 100

99 50.9 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

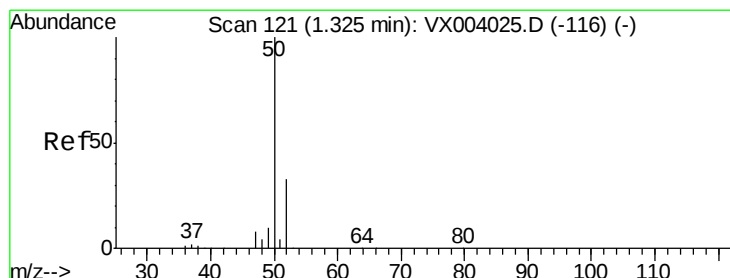
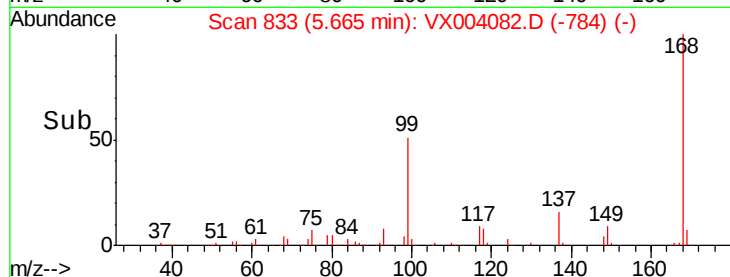
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.36 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004082.D

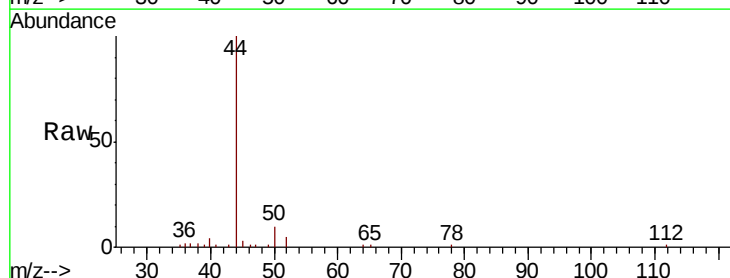
Acq: 15 Aug 2018 19:34

Tgt Ion: 50 Resp: 1111

Ion Ratio Lower Upper

50 100

52 46.2 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

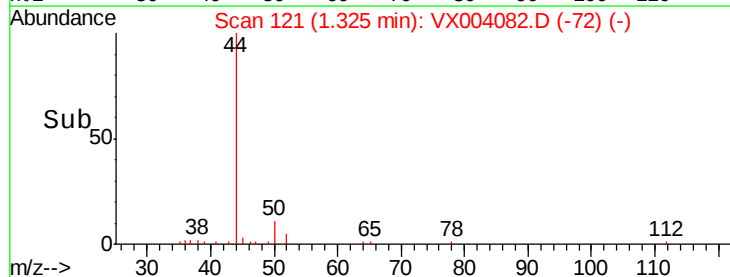
600

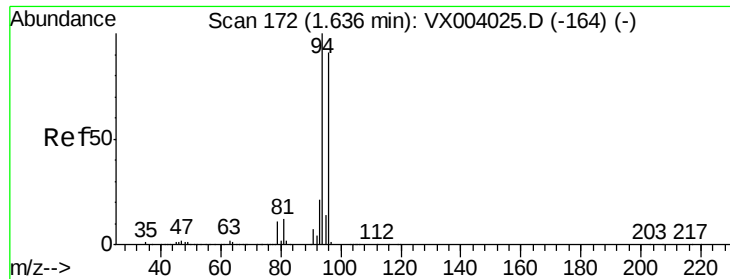
400

200

0

Time--> 1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.39 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

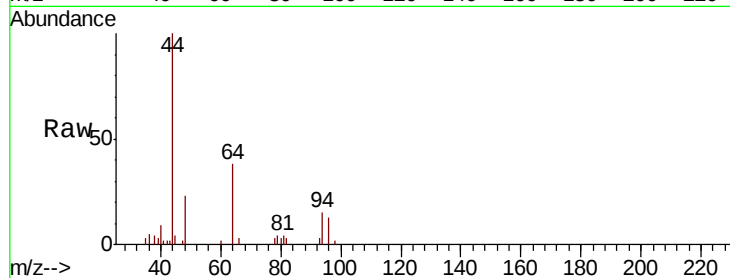
KY038PS034-180813

Tot Ion: 94 Resp: 951

Ion Ratio Lower Upper

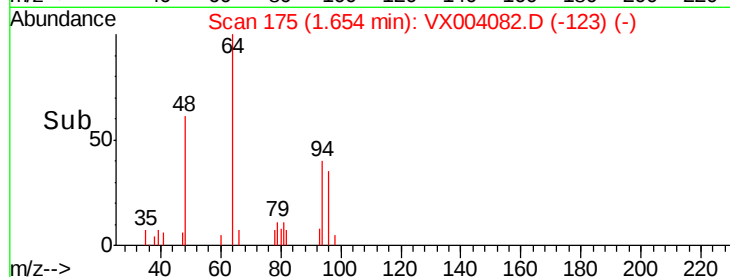
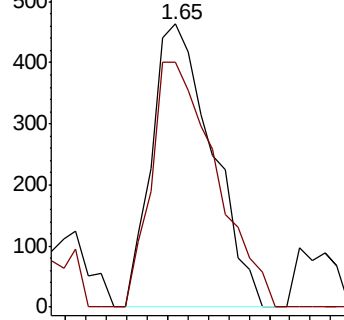
94 100

96 86.8 75.2 112.8

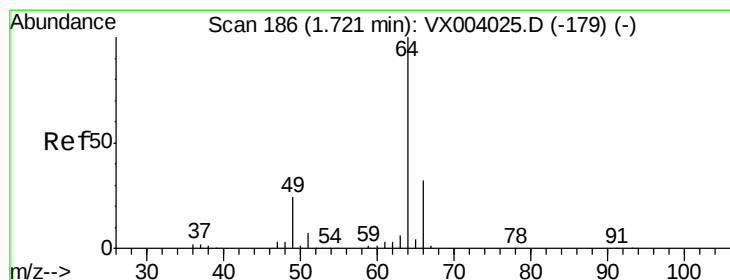


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. -0.07 min

Lab File: VX004082.D

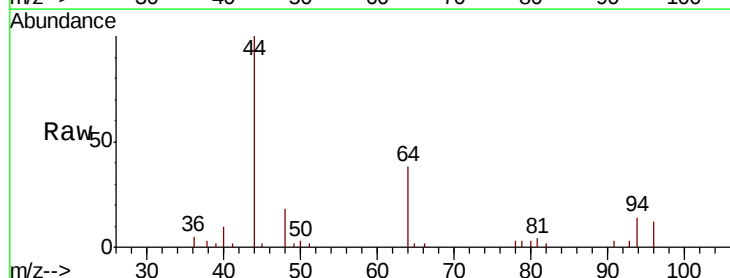
Acq: 15 Aug 2018 19:34

Tgt Ion: 64 Resp: 714

Ion Ratio Lower Upper

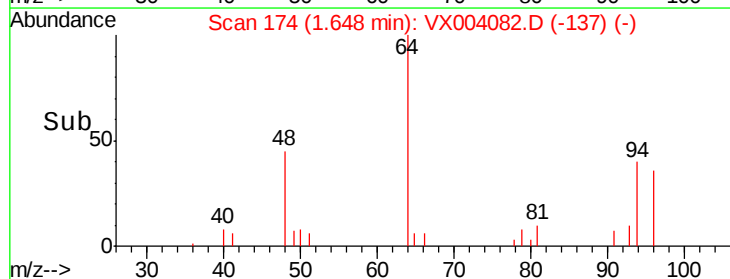
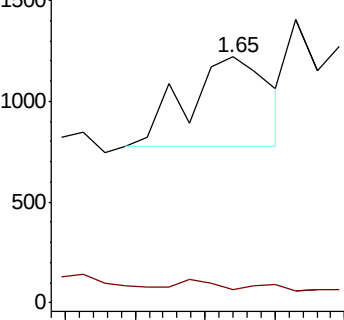
64 100

66 0.0 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



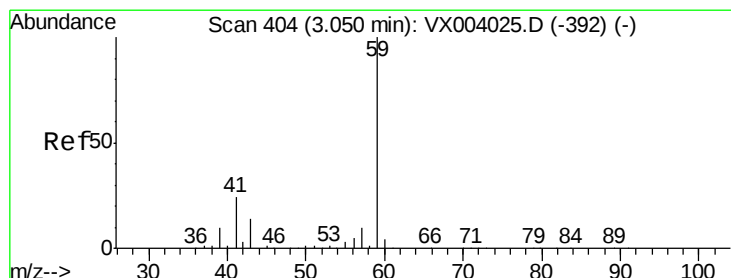
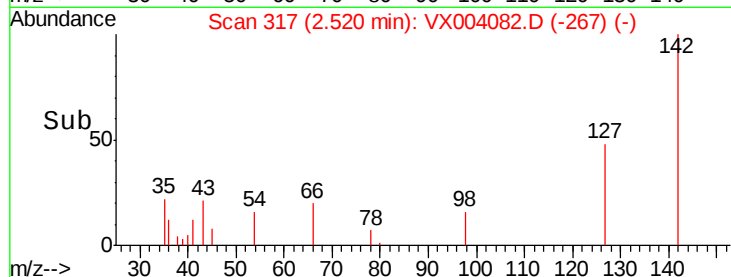
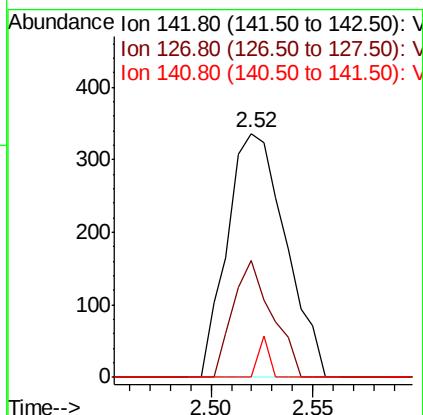
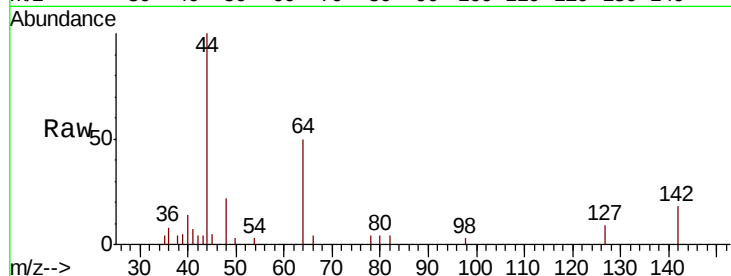
Time-->



#10
Methyl Iodide
Concen: 5.20 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004082.D
Acq: 15 Aug 2018 19:34

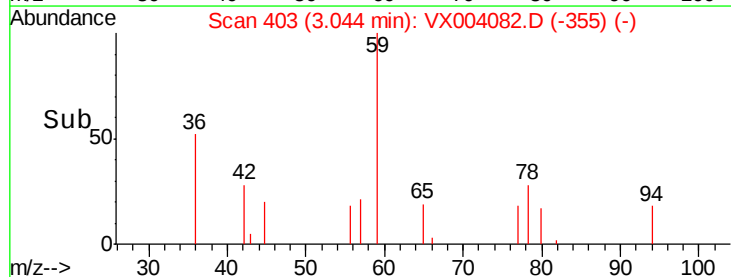
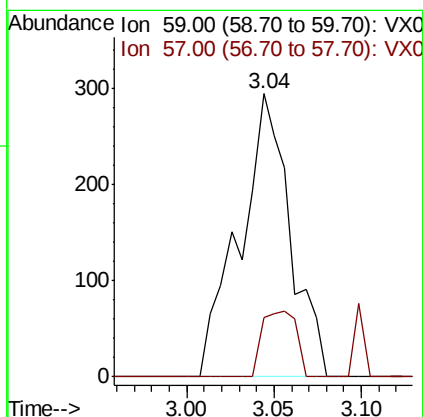
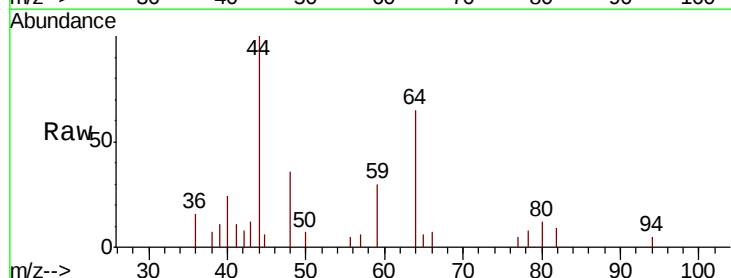
Instrument :
MSVOA_X
ClientSampleId :
KY038PS034-180813

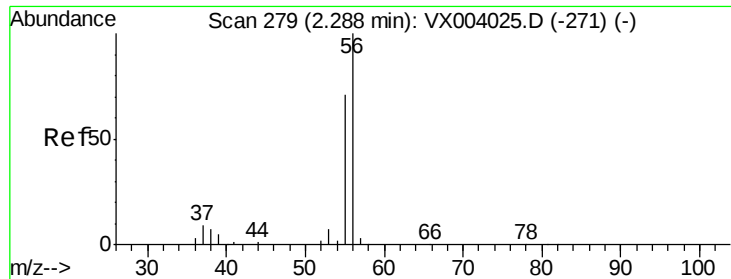
Tot Ion:142 Resp: 667
Ion Ratio Lower Upper
142 100
127 32.1 33.1 49.7#
141 3.1 11.1 16.7#



#11
Tert butyl alcohol
Concen: 0.81 ug/l
RT: 3.04 min Scan# 403
Delta R.T. -0.01 min
Lab File: VX004082.D
Acq: 15 Aug 2018 19:34

Tgt Ion: 59 Resp: 595
Ion Ratio Lower Upper
59 100
57 15.8 8.1 12.1#





#13

Acrolein

Concen: 11.07 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

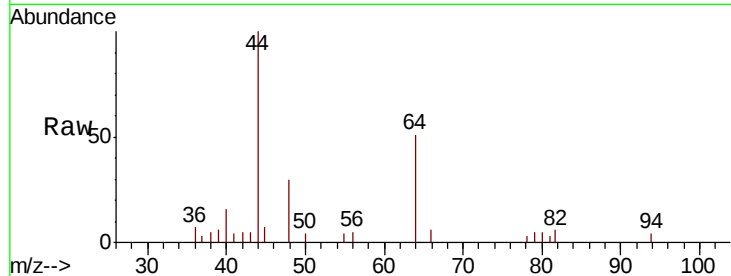
KY038PS034-180813

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

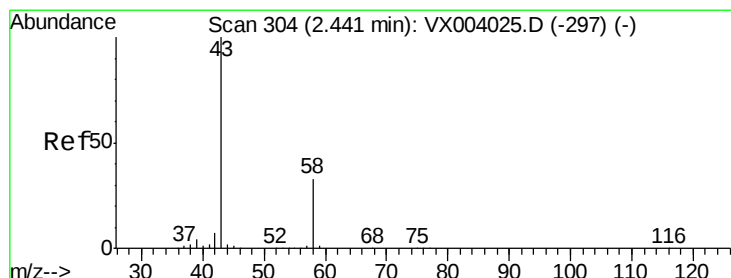
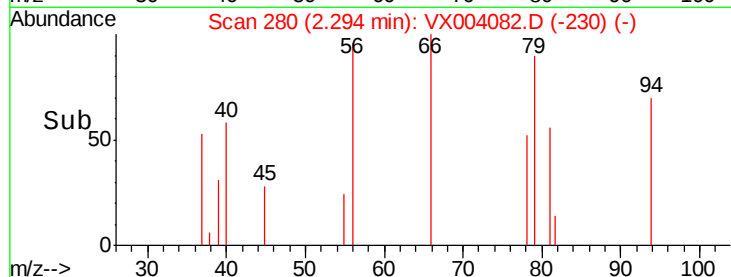
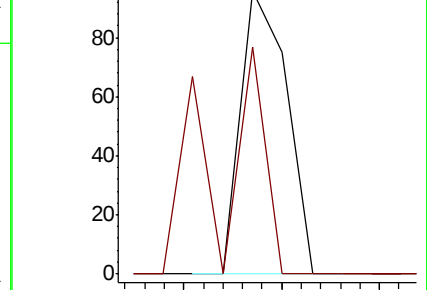
56 100

55 38.1 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 10.98 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004082.D

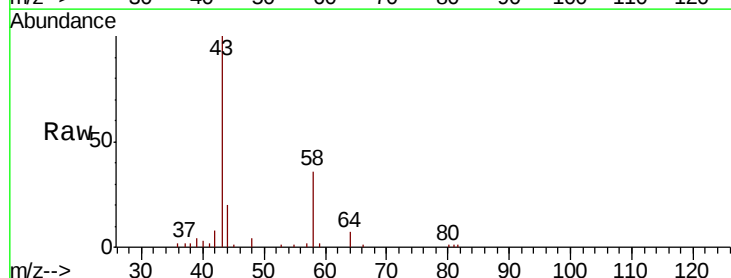
Acq: 15 Aug 2018 19:34

Tgt Ion: 43 Resp: 20695

Ion Ratio Lower Upper

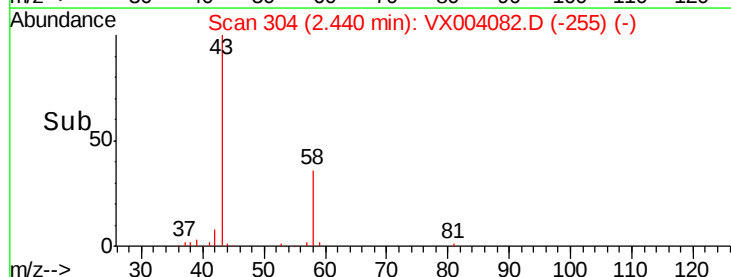
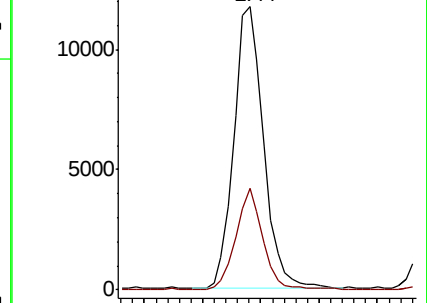
43 100

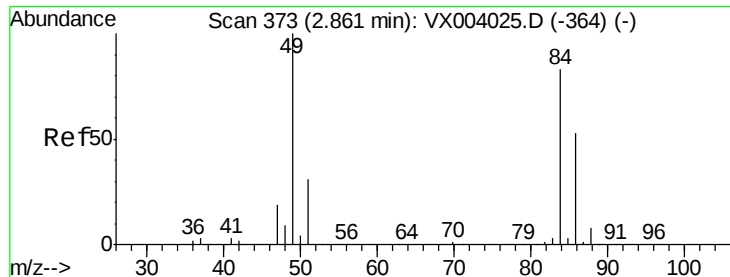
58 36.0 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



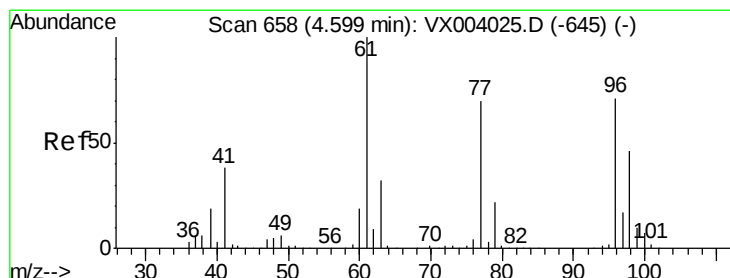
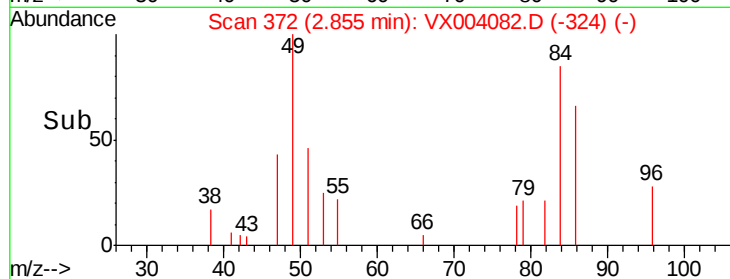
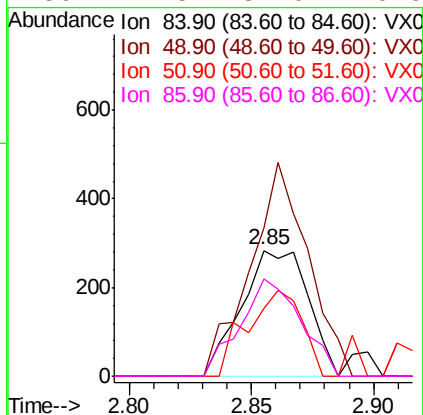
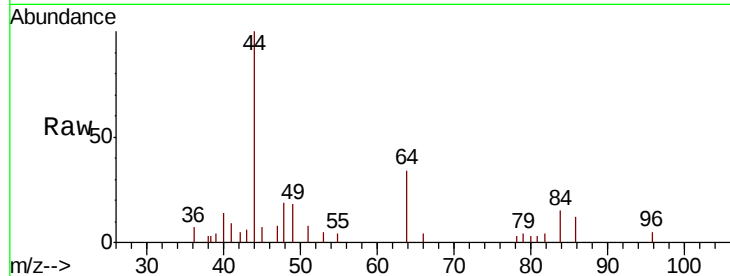


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.85 min Scan# 372
 Delta R.T. -0.01 min
 Lab File: VX004082.D
 Acq: 15 Aug 2018 19:34

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS034-180813

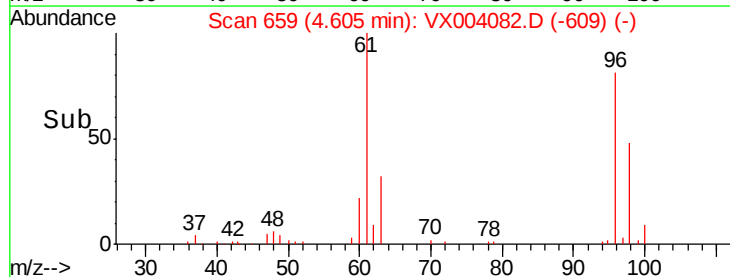
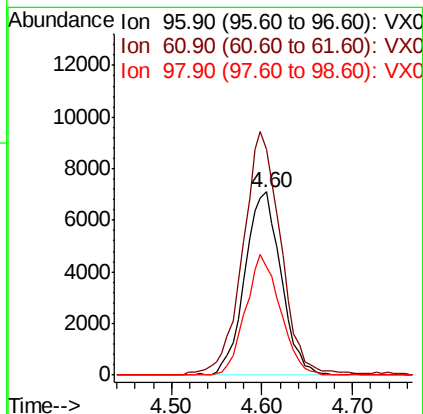
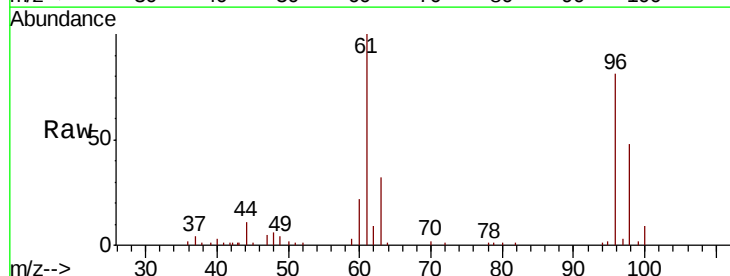
Tot Ion: 84 Resp: 541
 Ion Ratio Lower Upper
 84 100
 49 118.0 98.9 148.3
 51 54.2 29.9 44.9#
 86 77.5 51.0 76.6#

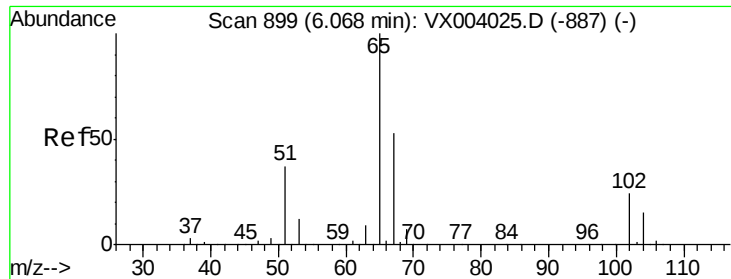


#27

cis-1,2-Dichloroethene
 Concen: 5.66 ug/l
 RT: 4.60 min Scan# 659
 Delta R.T. 0.01 min
 Lab File: VX004082.D
 Acq: 15 Aug 2018 19:34

Tgt Ion: 96 Resp: 19569
 Ion Ratio Lower Upper
 96 100
 61 139.8 0.0 293.0
 98 63.2 0.0 131.8

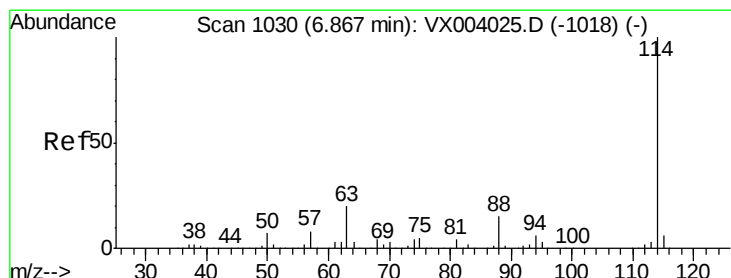
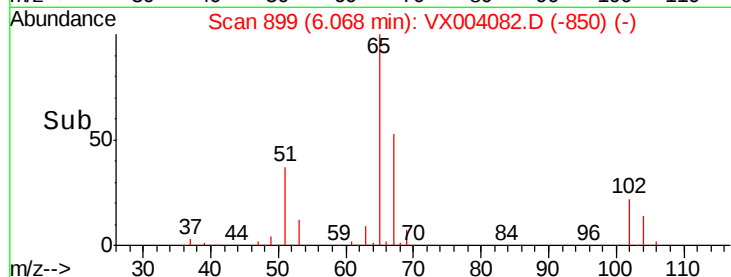
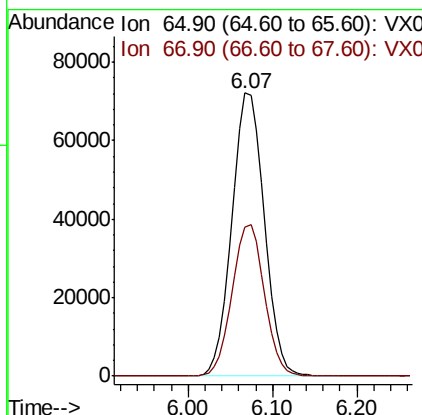
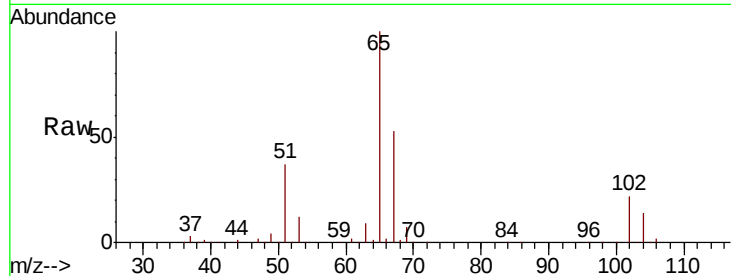




#33
 1,2-Dichloroethane-d4
 Concen: 51.82 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004082.D
 Acq: 15 Aug 2018 19:34

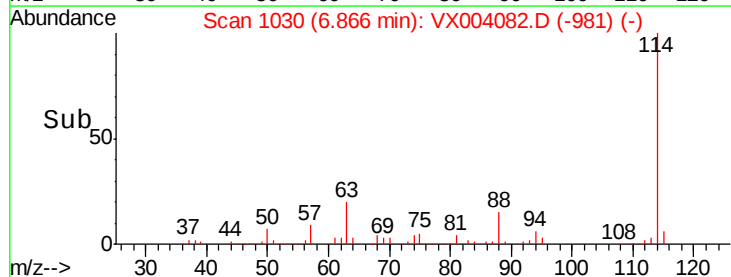
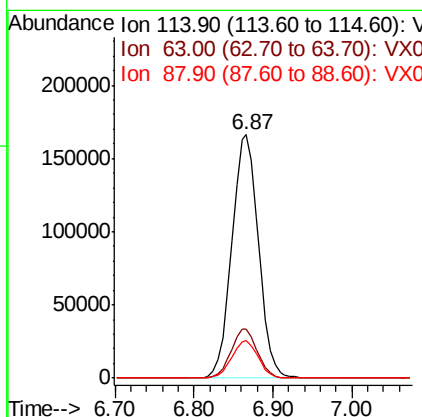
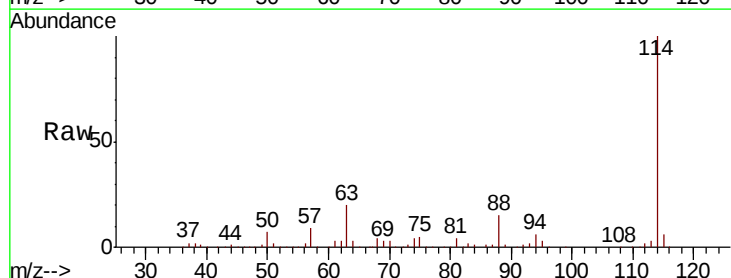
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS034-180813

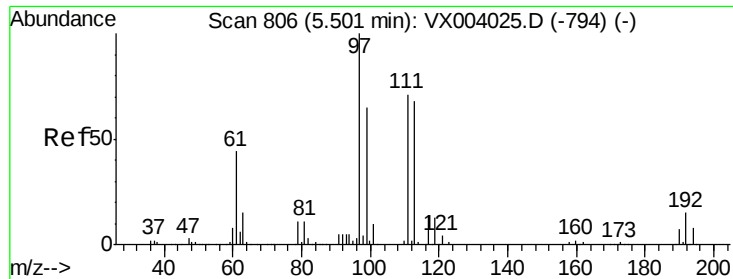
Tot Ion: 65 Resp: 187920
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004082.D
 Acq: 15 Aug 2018 19:34

Tgt Ion: 114 Resp: 389595
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.0
 88 15.5 0.0 32.0





#35

Dibromofluoromethane

Concen: 54.15 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

KY038PS034-180813

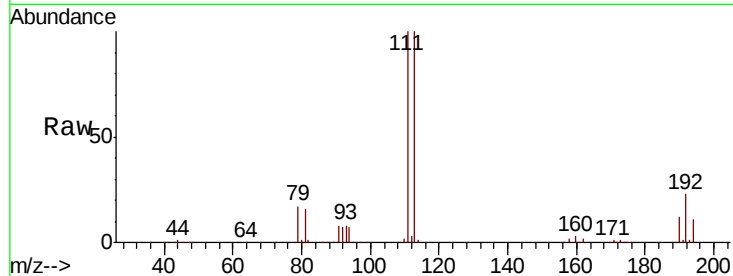
Tot Ion:113 Resp: 157885

Ion Ratio Lower Upper

113 100

111 103.0 82.0 123.0

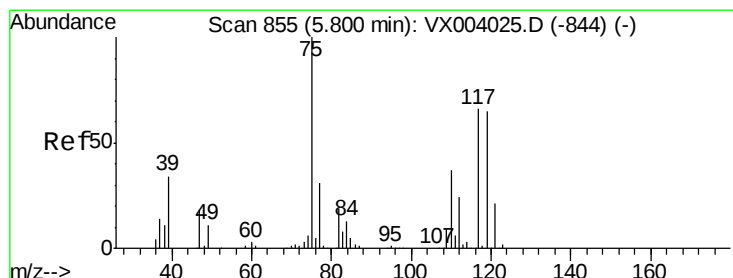
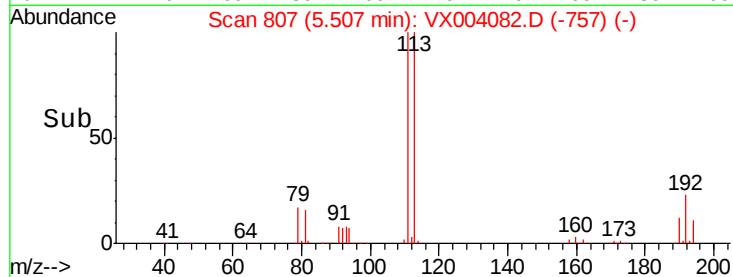
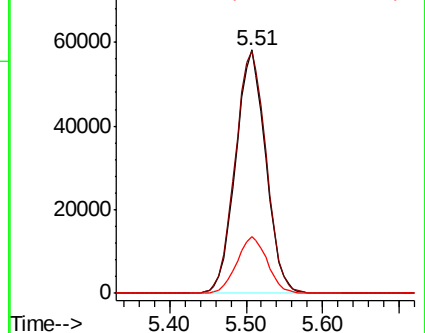
192 23.4 19.0 28.4



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: 3.97 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

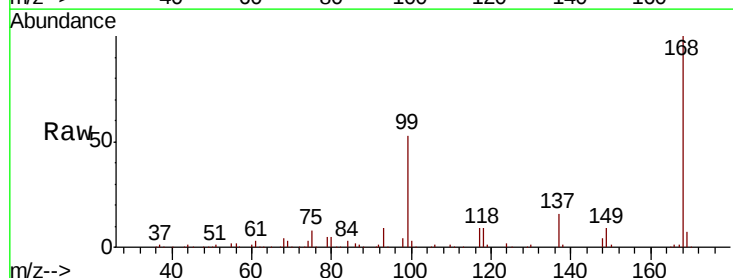
Tgt Ion: 75 Resp: 17580

Ion Ratio Lower Upper

75 100

110 0.0 18.2 54.6#

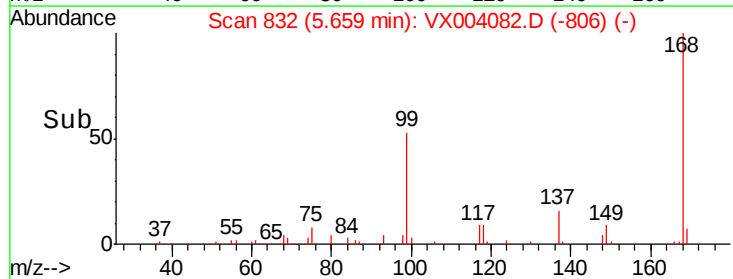
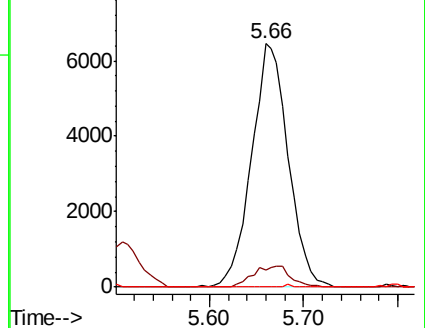
77 0.0 25.0 37.4#

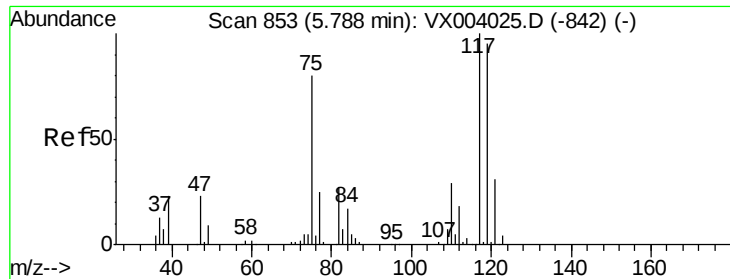


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.41 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

KY038PS034-180813

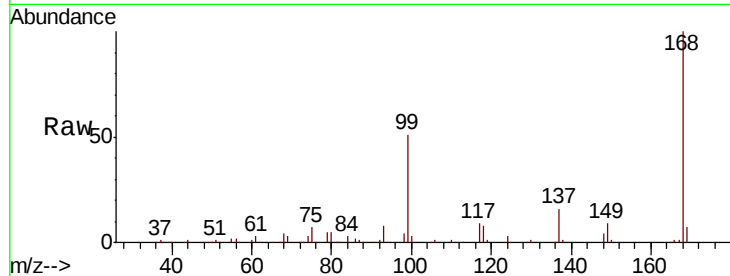
Tot Ion:117 Resp: 23285

Ion Ratio Lower Upper

117 100

119 6.3 79.5 119.3#

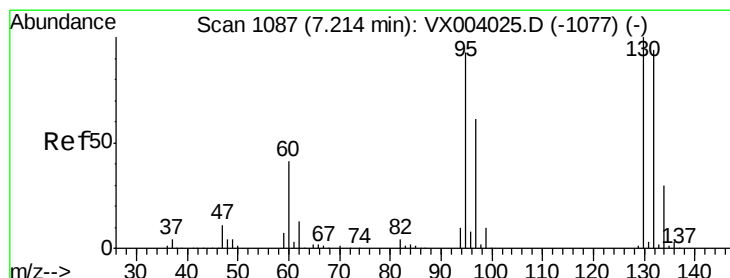
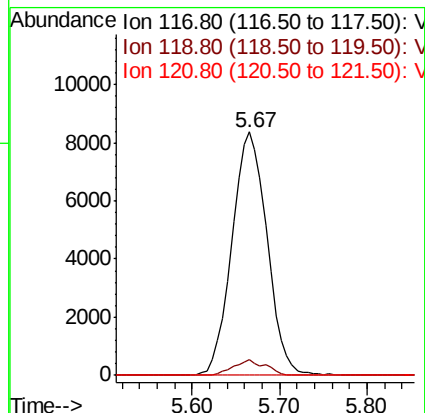
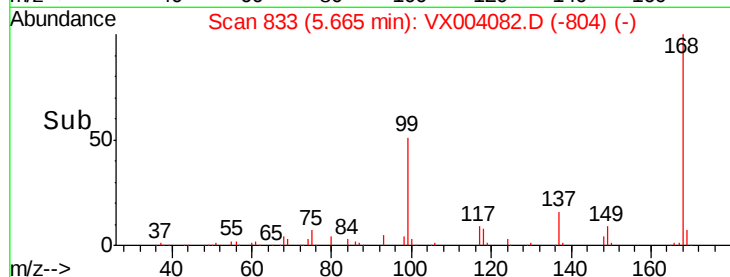
121 0.0 25.0 37.4#



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: 0.20 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX004082.D

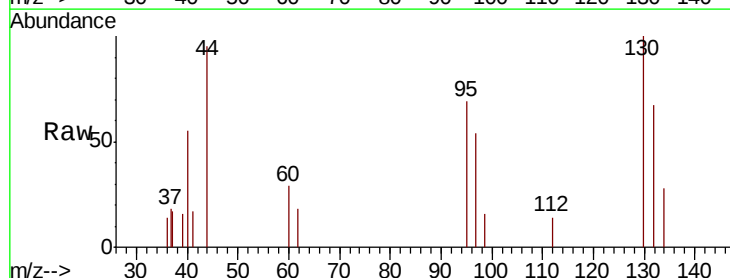
Acq: 15 Aug 2018 19:34

Tgt Ion:130 Resp: 730

Ion Ratio Lower Upper

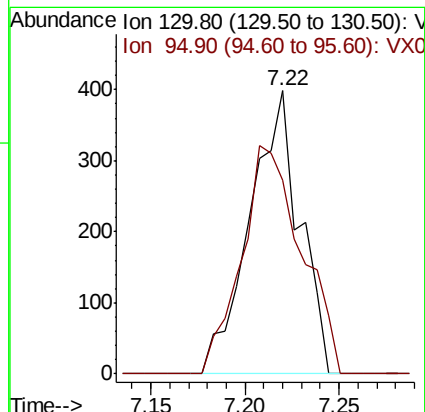
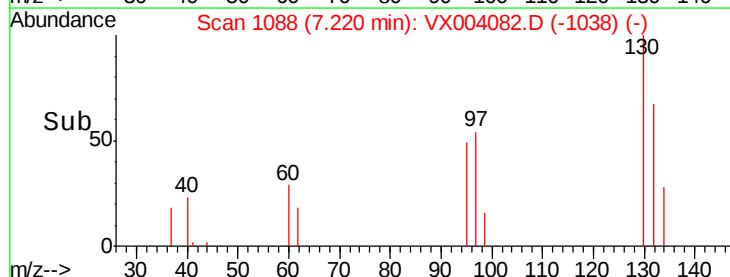
130 100

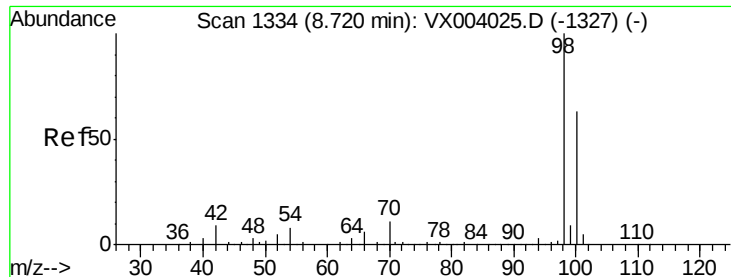
95 68.6 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 47.45 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

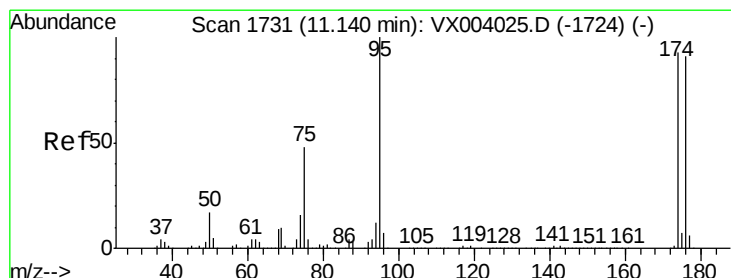
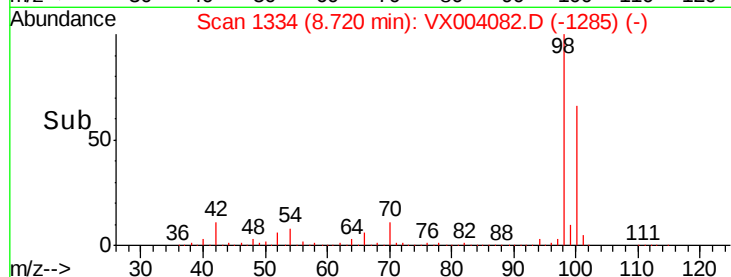
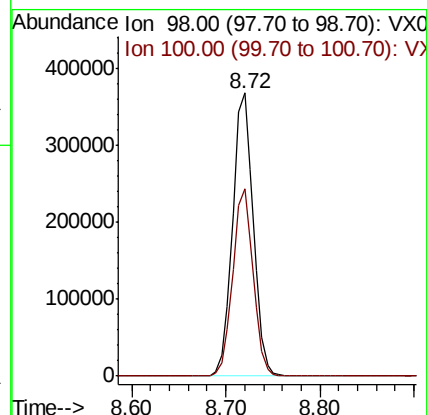
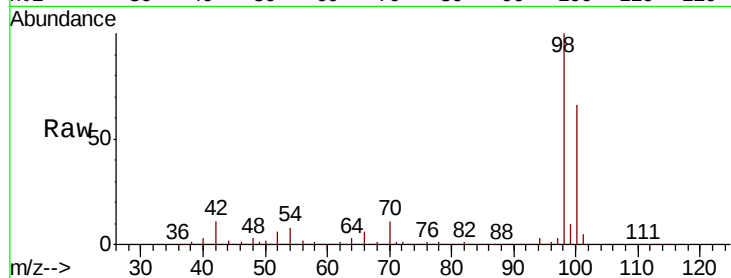
KY038PS034-180813

Tot Ion: 98 Resp: 560923

Ion Ratio Lower Upper

98 100

100 65.3 53.3 79.9



#62

4-Bromofluorobenzene

Concen: 43.12 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

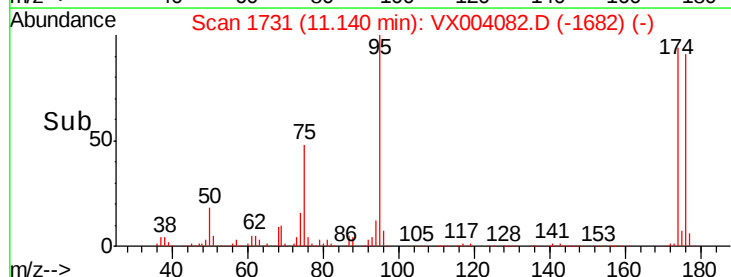
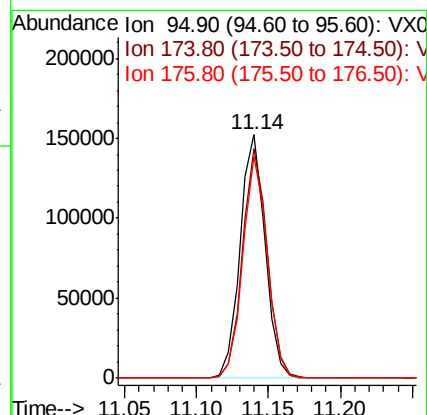
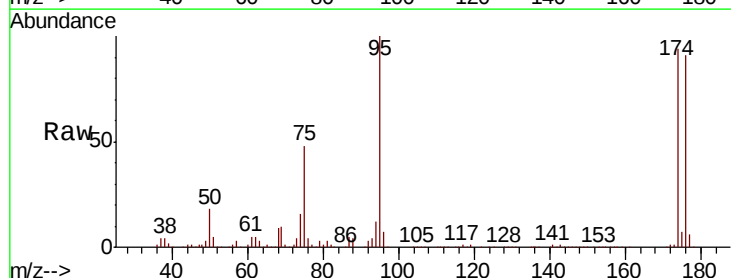
Tgt Ion: 95 Resp: 184871

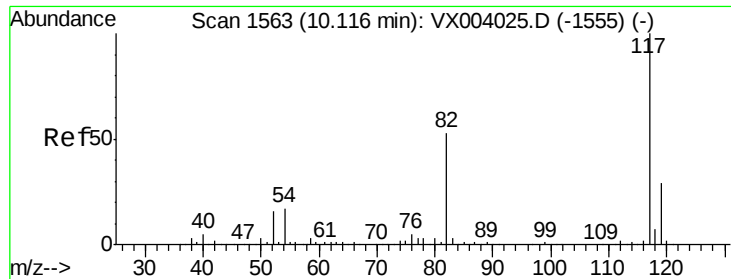
Ion Ratio Lower Upper

95 100

174 93.2 0.0 182.8

176 89.1 0.0 179.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

KY038PS034-180813

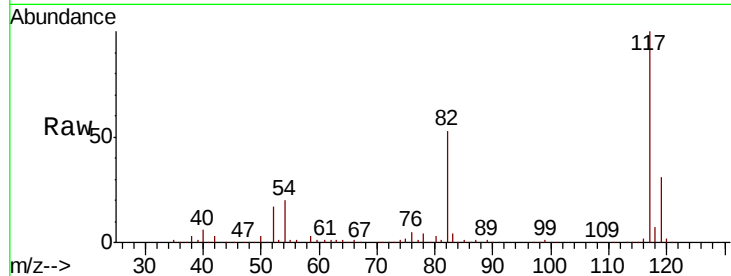
Tot Ion:117 Resp: 370877

Ion Ratio Lower Upper

117 100

82 52.7 45.4 68.0

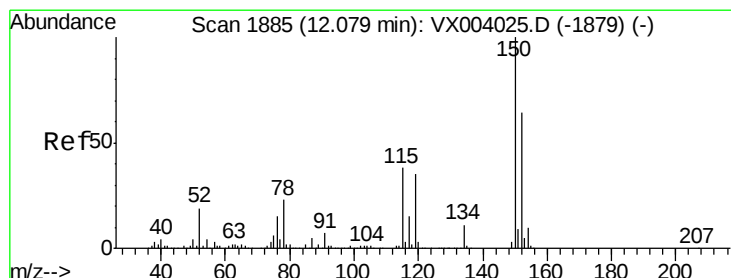
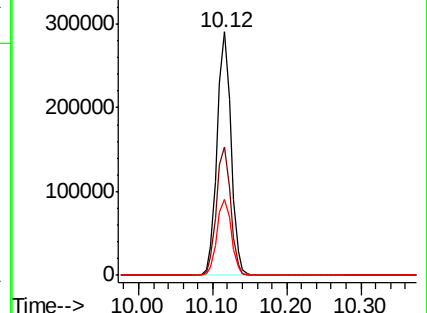
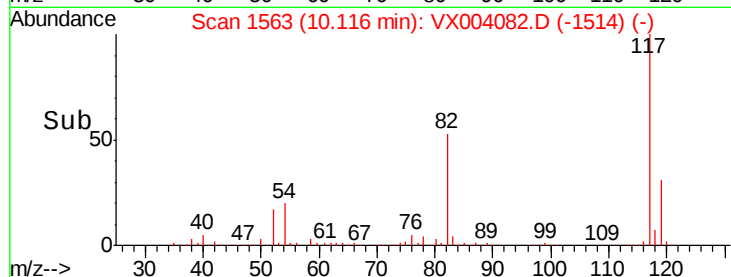
119 31.4 26.6 40.0



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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

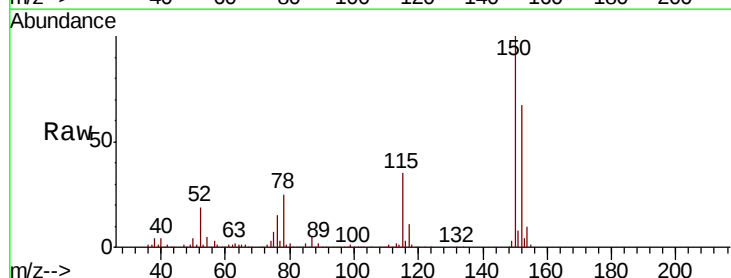
Tgt Ion:152 Resp: 186404

Ion Ratio Lower Upper

152 100

115 55.0 39.1 117.3

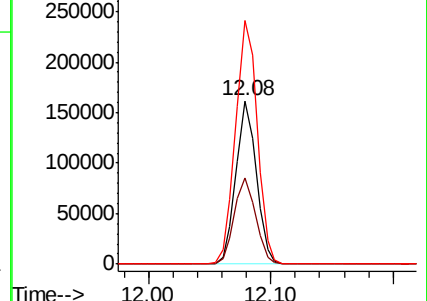
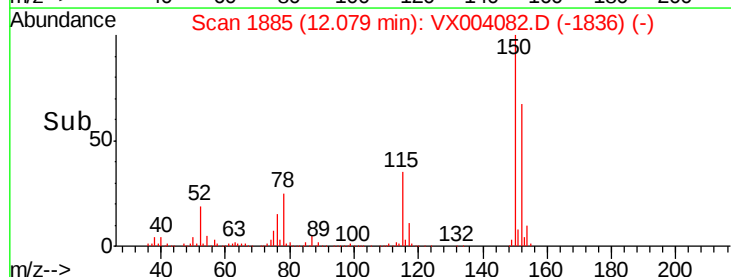
150 158.1 0.0 349.2

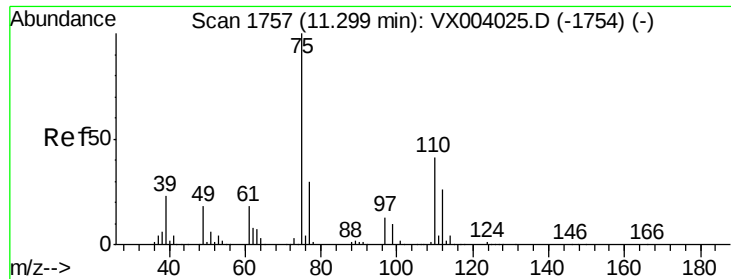


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.13 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

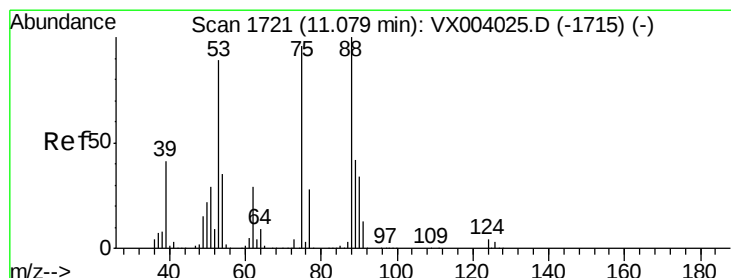
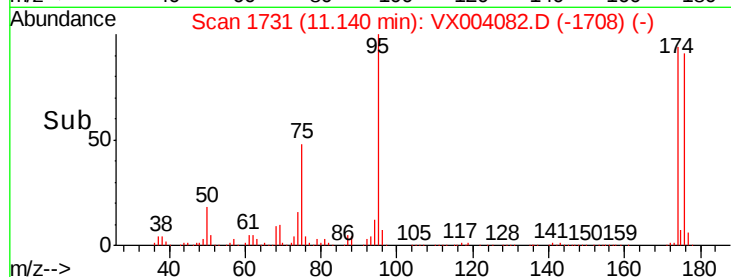
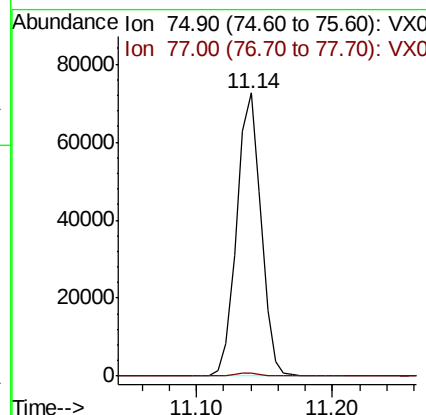
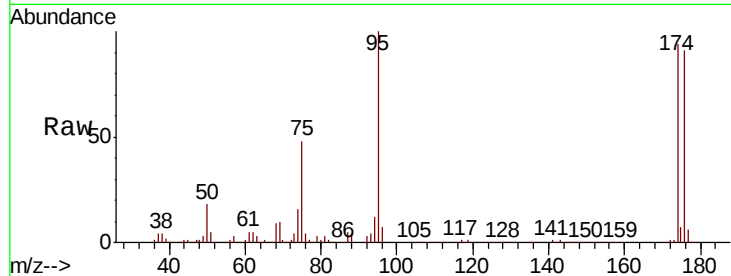
KY038PS034-180813

Tot Ion: 75 Resp: 90194

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.69 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

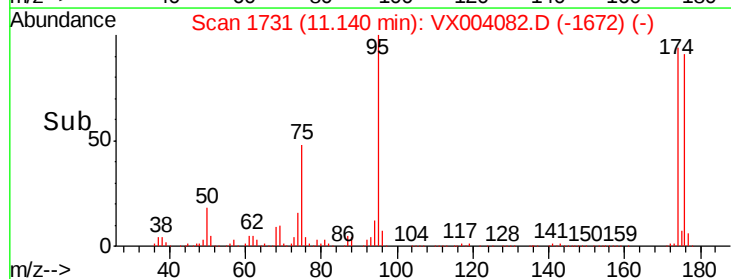
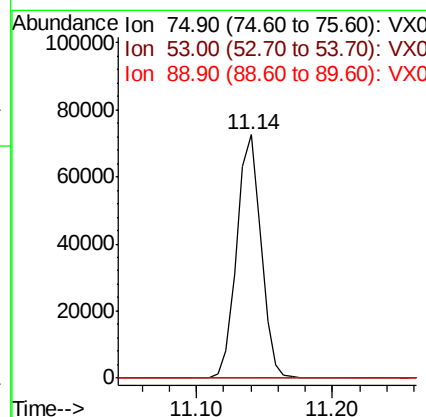
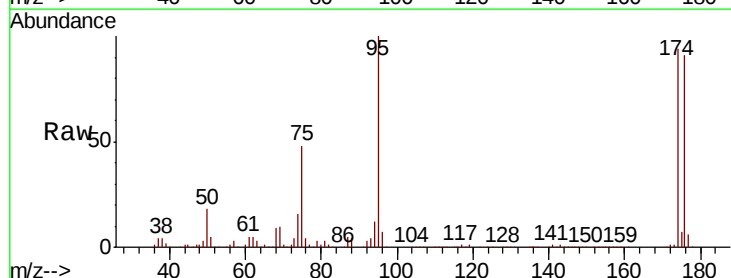
Tgt Ion: 75 Resp: 90194

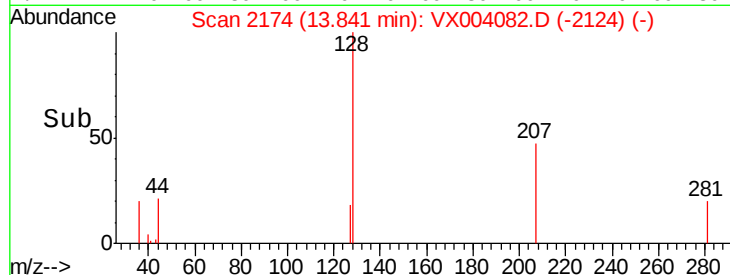
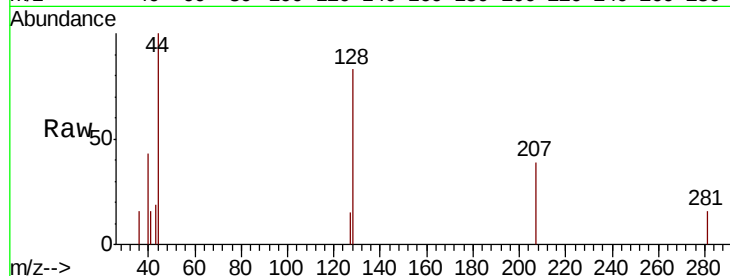
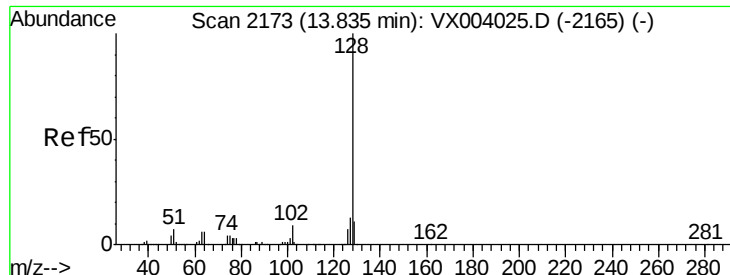
Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

89 0.0 37.8 56.8#





#95

Naphthalene

Concen: 1.17 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX004082.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

KY038PS034-180813

Tot Ion:128 Resp: 387

Ion Ratio Lower Upper

128 100

127 10.6 10.2 15.2

129 0.0 8.8 13.2#

