

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082018\
 Data File : VX004154.D
 Acq On : 20 Aug 2018 15:49
 Operator : JC/MD
 Sample : J4541-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY070MW233-180815

Quant Time: Aug 21 01:03:23 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	259494	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	403341	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	390773	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	201145	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	191741	52.44	ug/l	0.00
Spiked Amount			Recovery	=	104.88%	
35) Dibromofluoromethane	5.51	113	165356	54.78	ug/l	0.00
Spiked Amount			Recovery	=	109.56%	
50) Toluene-d8	8.72	98	579213	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
62) 4-Bromofluorobenzene	11.14	95	199159	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	

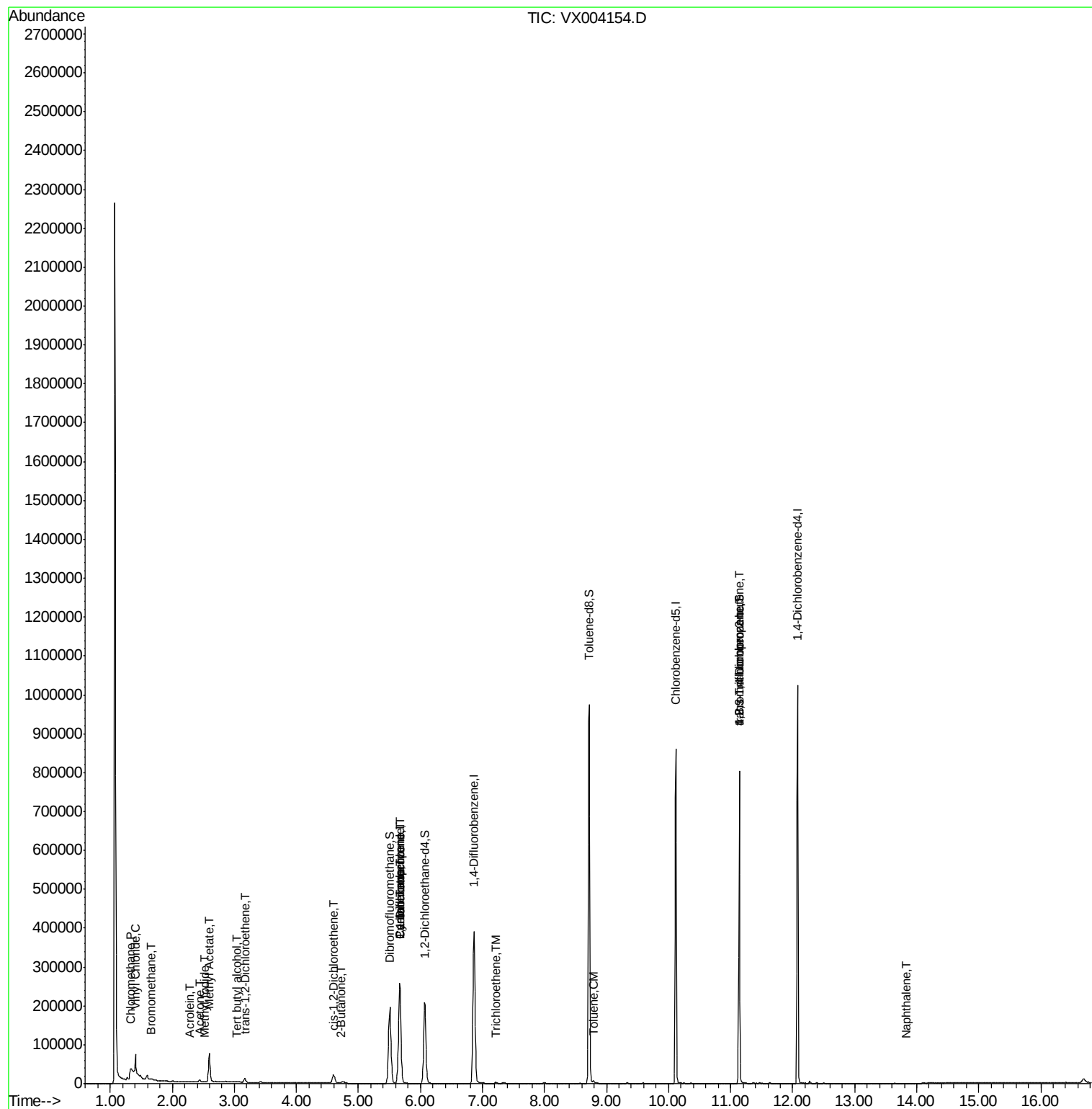
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	4911	1.58	ug/l	88
4) Vinyl Chloride	1.40	62	29919	8.92	ug/l	# 71
5) Bromomethane	1.66	94	894	0.35	ug/l	90
6) Chloroethane	1.72	64	1923	Below Cal	#	64
10) Methyl Iodide	2.53	142	483	5.15	ug/l	# 65
11) Tert butyl alcohol	3.04	59	1919	2.61	ug/l	95
13) Acrolein	2.29	56	86	11.11	ug/l	# 1
16) Acetone	2.44	43	6091	3.20	ug/l	95
18) Methyl Acetate	2.59	43	19831	4.69	ug/l	# 52
20) Methylene Chloride	2.86	84	549	Below Cal		88
21) trans-1,2-Dichloroethene	3.17	96	3874	1.25	ug/l	93
25) 2-Butanone	4.71	43	1284	0.42	ug/l	# 82
27) cis-1,2-Dichloroethene	4.60	96	14311	4.10	ug/l	86
31) Cyclohexane	5.67	56	4432	0.88	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17555	3.82	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	23013	5.16	ug/l	# 15
44) Trichloroethene	7.21	130	1335	0.36	ug/l	96
52) Toluene	8.79	92	1874	0.22	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	94523	23.43	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	94523	72.54	ug/l	# 10
95) Naphthalene	13.83	128	262	1.16	ug/l	# 69

(#) = 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: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

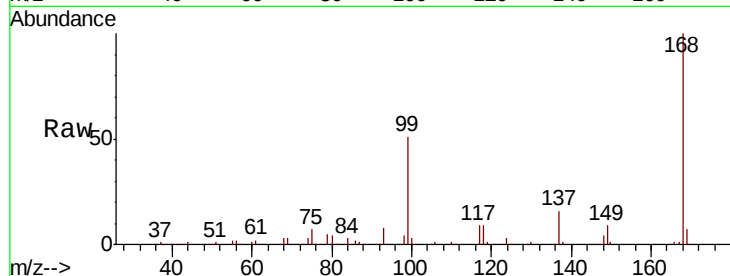
KY070MW233-180815

Tot Ion:168 Resp: 259494

Ion Ratio Lower Upper

168 100

99 51.2 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

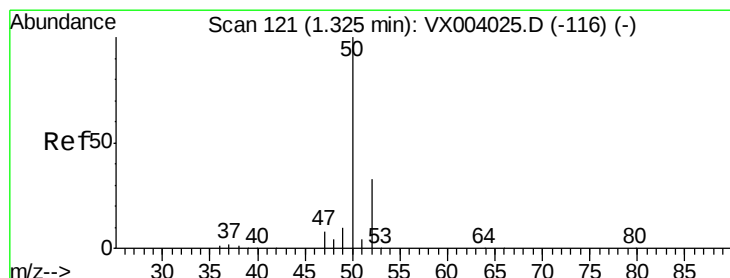
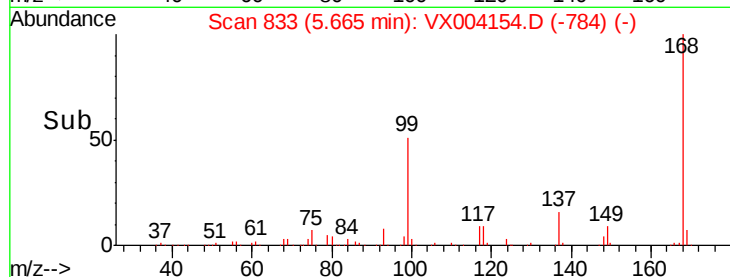
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.58 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004154.D

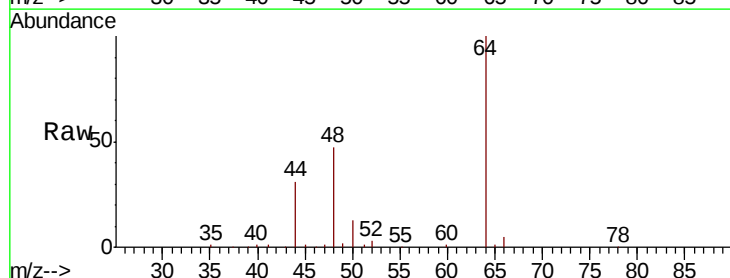
Acq: 20 Aug 2018 15:49

Tgt Ion: 50 Resp: 4911

Ion Ratio Lower Upper

50 100

52 26.6 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

2500

2000

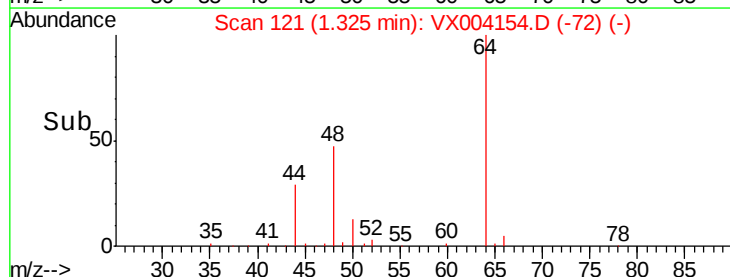
1500

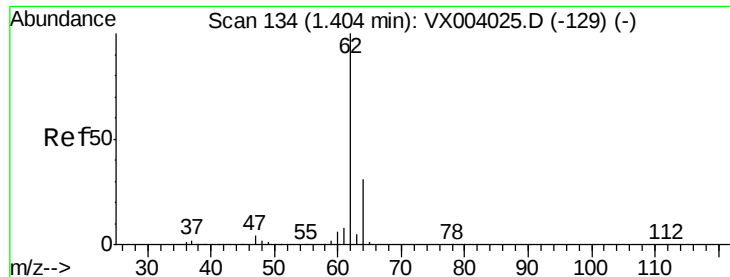
1000

500

0

Time--> 1.25 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 8.92 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

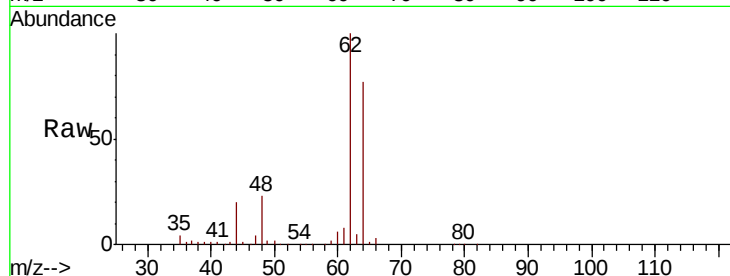
KY070MW233-180815

Tot Ion: 62 Resp: 29919

Ion Ratio Lower Upper

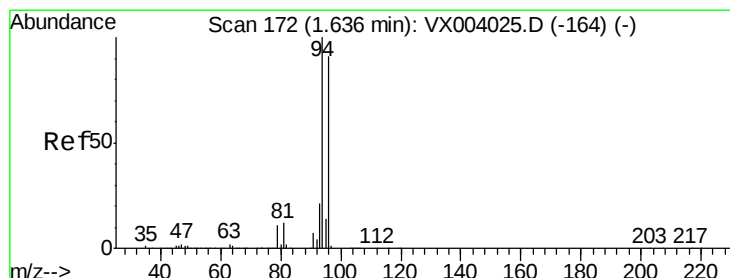
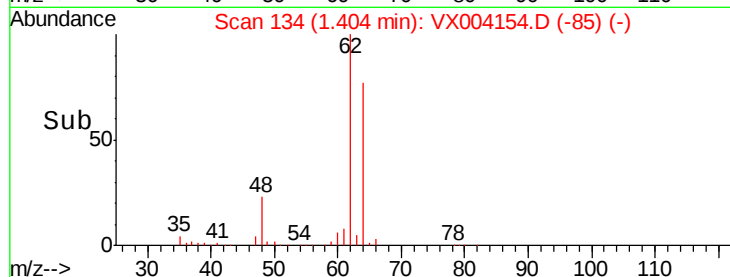
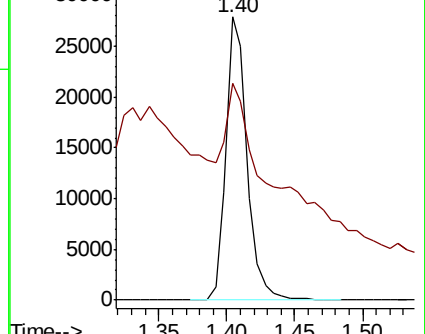
62 100

64 48.8 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.35 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX004154.D

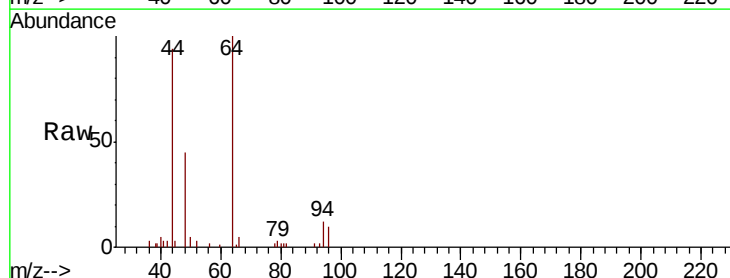
Acq: 20 Aug 2018 15:49

Tgt Ion: 94 Resp: 894

Ion Ratio Lower Upper

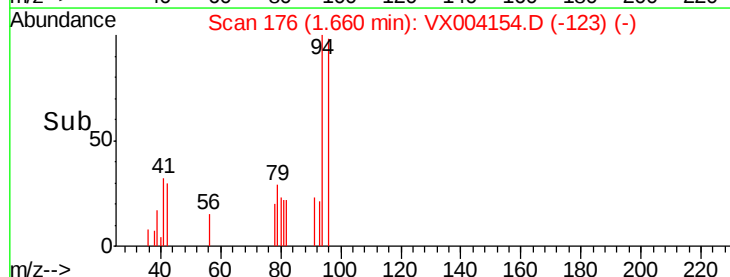
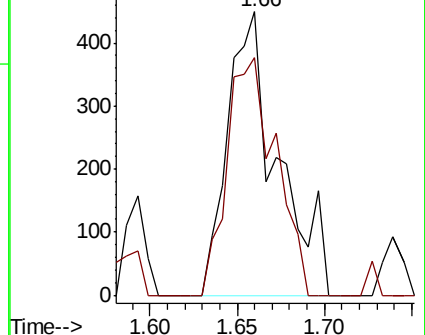
94 100

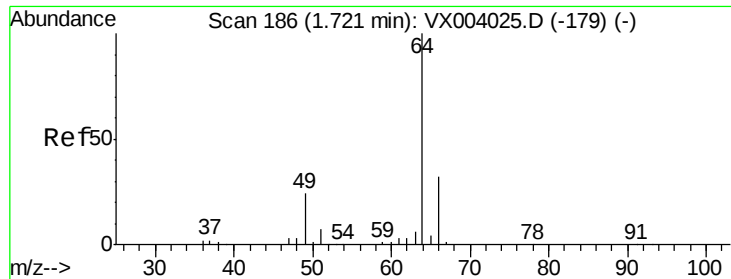
96 84.0 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

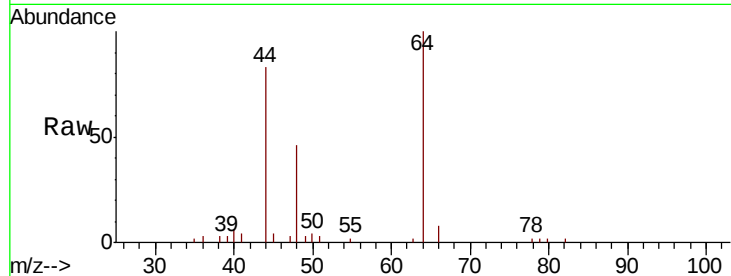
KY070MW233-180815

Tot Ion: 64 Resp: 1923

Ion Ratio Lower Upper

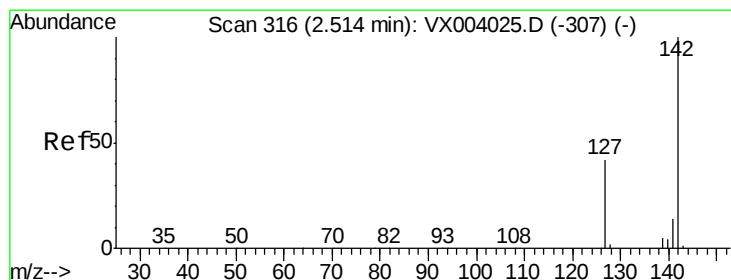
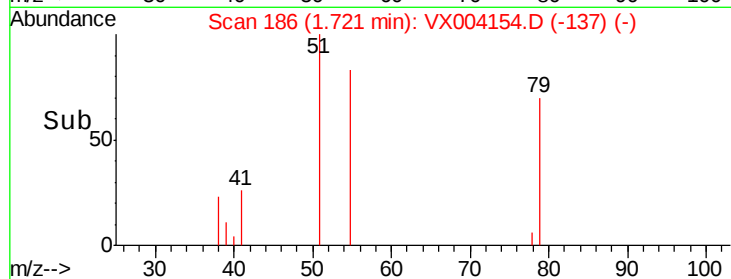
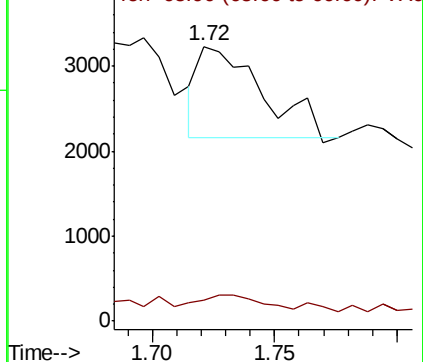
64 100

66 12.7 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.15 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

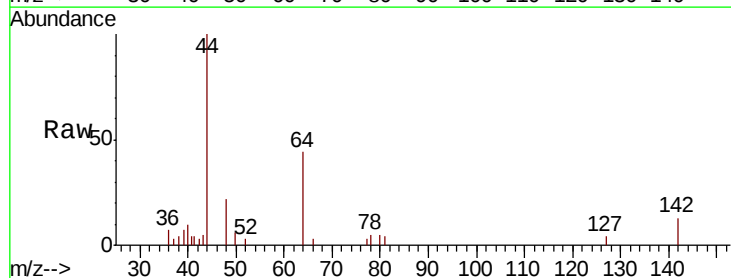
Tgt Ion: 142 Resp: 483

Ion Ratio Lower Upper

142 100

127 19.5 33.1 49.7#

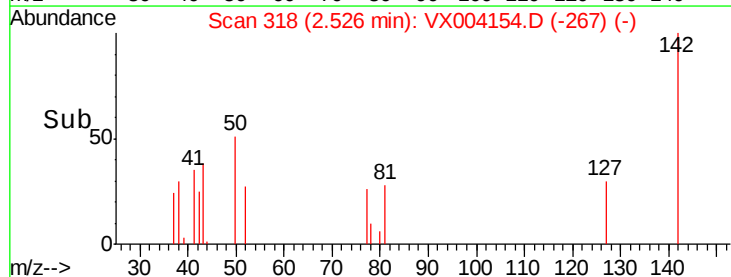
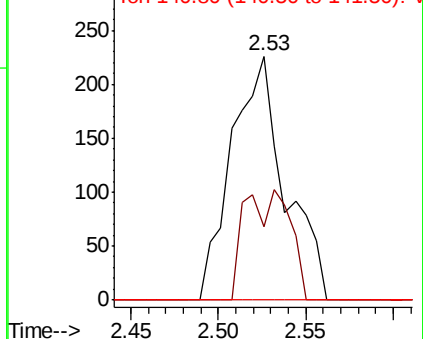
141 0.0 11.1 16.7#

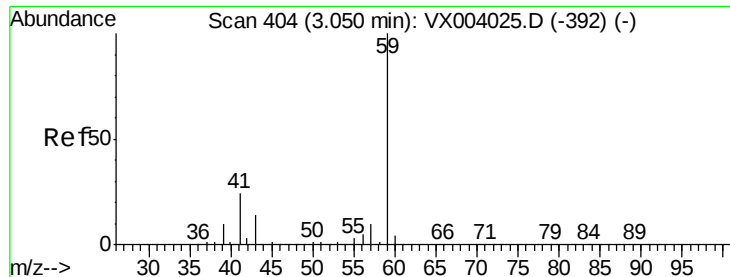


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

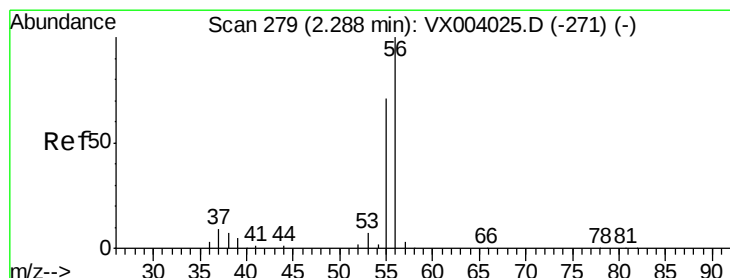
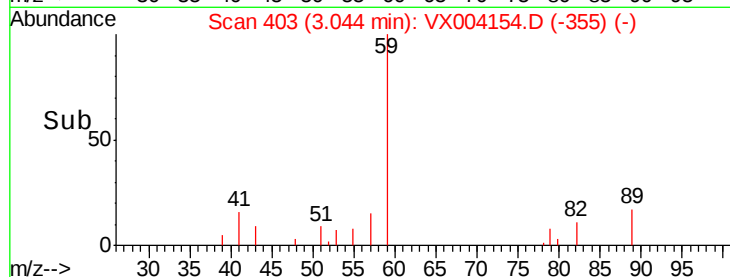
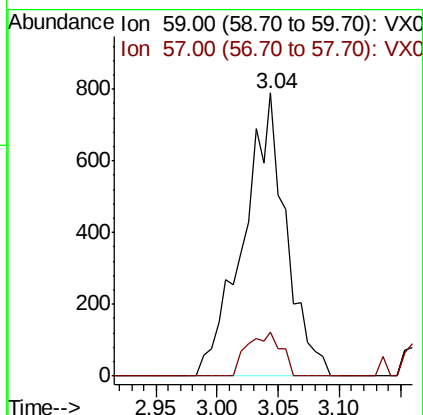
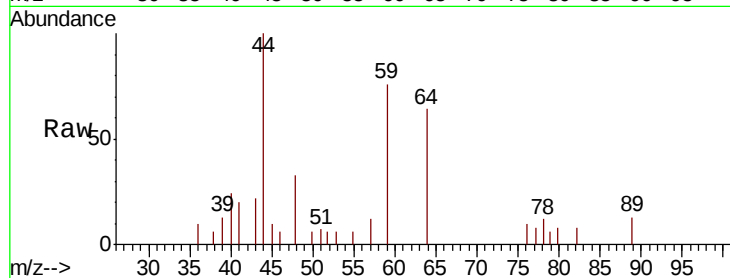




#11
Tert butyl alcohol
Concen: 2.61 ug/l
RT: 3.04 min Scan# 403
Delta R.T. -0.01 min
Lab File: VX004154.D
Acq: 20 Aug 2018 15:49

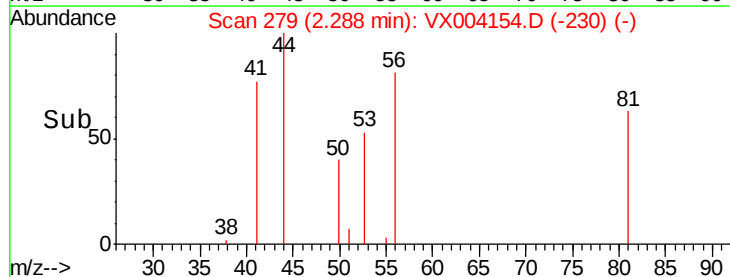
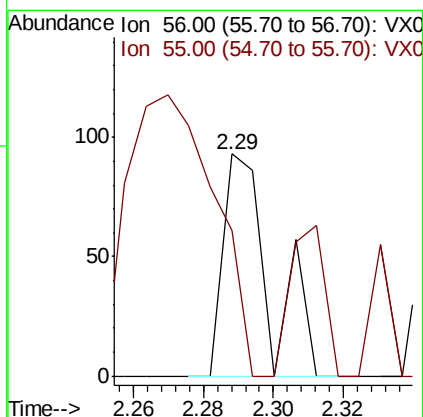
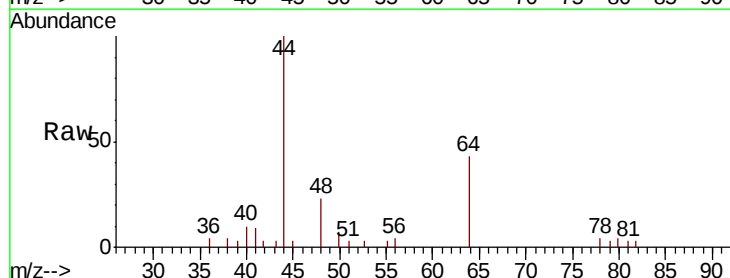
Instrument :
MSVOA_X
ClientSampleId :
KY070MW233-180815

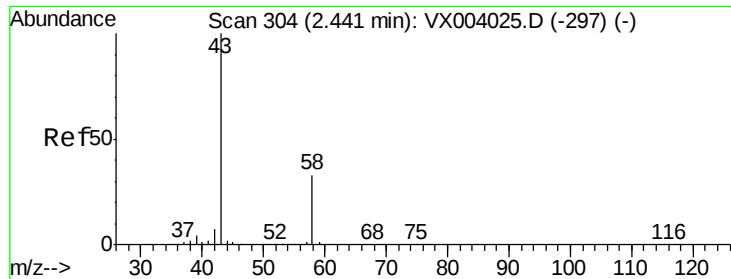
Tot Ion: 59 Resp: 1919
Ion Ratio Lower Upper
59 100
57 12.0 8.1 12.1



#13
Acrolein
Concen: 11.11 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004154.D
Acq: 20 Aug 2018 15:49

Tgt Ion: 56 Resp: 86
Ion Ratio Lower Upper
56 100
55 237.2 56.1 84.1#





#16

Acetone

Concen: 3.20 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

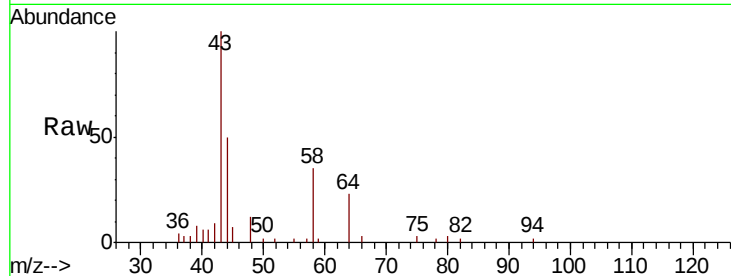
KY070MW233-180815

Tot Ion: 43 Resp: 6091

Ion Ratio Lower Upper

43 100

58 36.1 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

4000

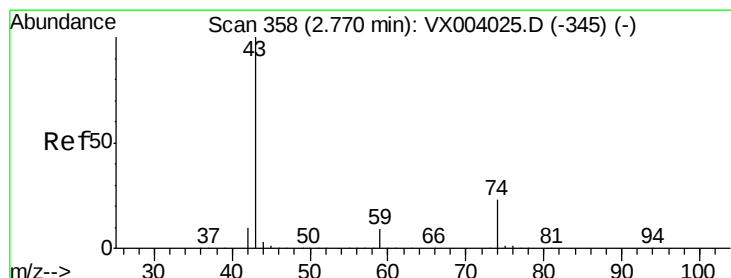
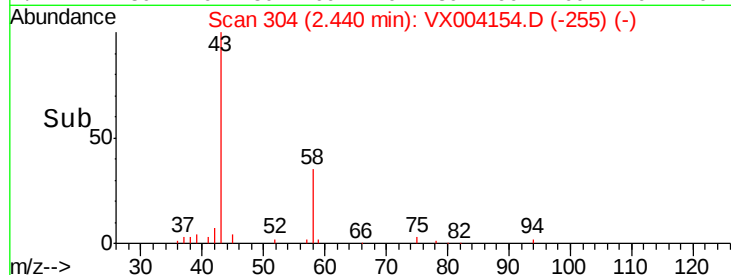
3000

2000

1000

0

Time--> 2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 4.69 ug/l

RT: 2.59 min Scan# 329

Delta R.T. -0.18 min

Lab File: VX004154.D

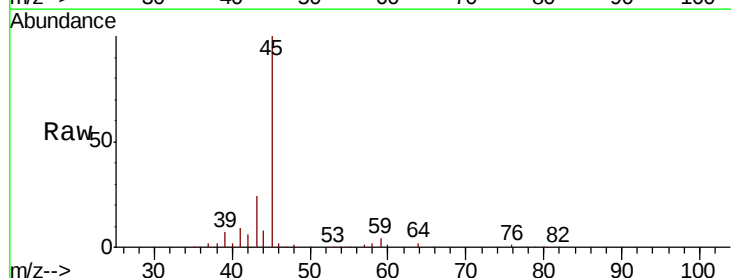
Acq: 20 Aug 2018 15:49

Tgt Ion: 43 Resp: 19831

Ion Ratio Lower Upper

43 100

74 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

12000

10000

8000

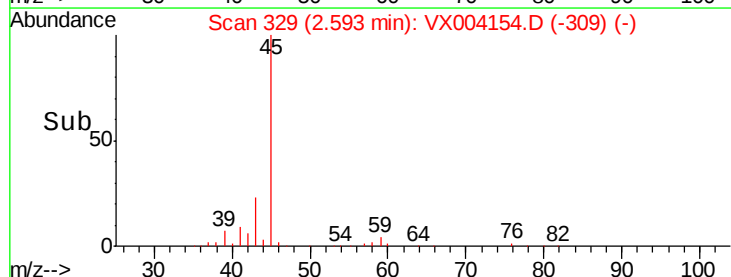
6000

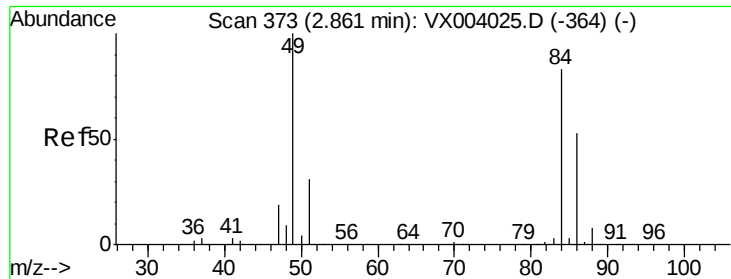
4000

2000

0

Time--> 2.50 2.55 2.60 2.65 2.70

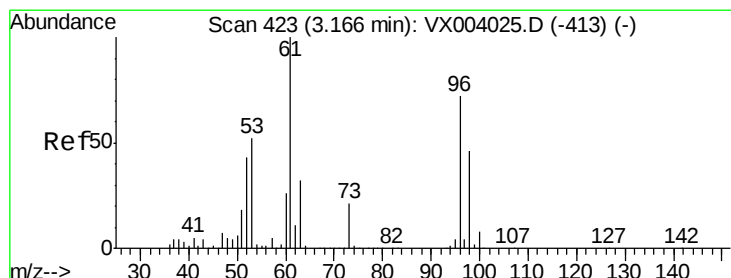
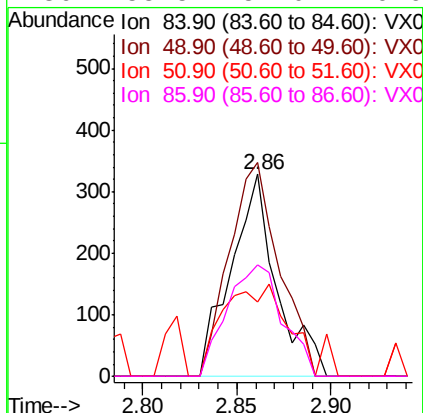
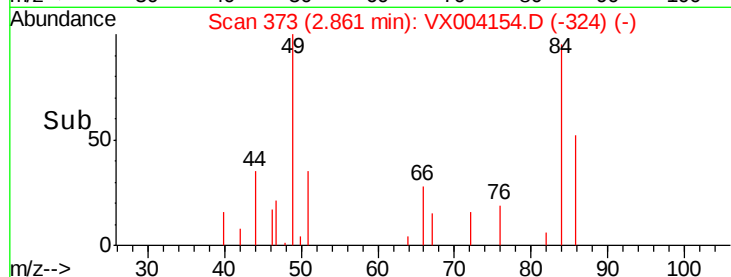
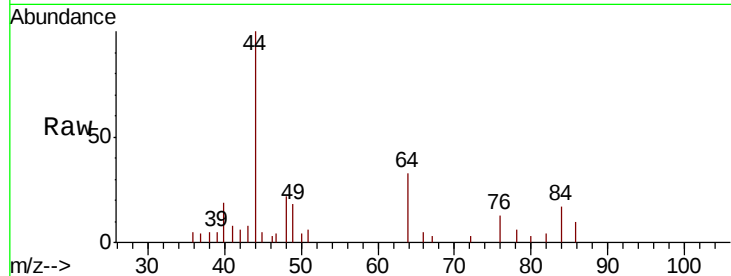




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX004154.D
Acq: 20 Aug 2018 15:49

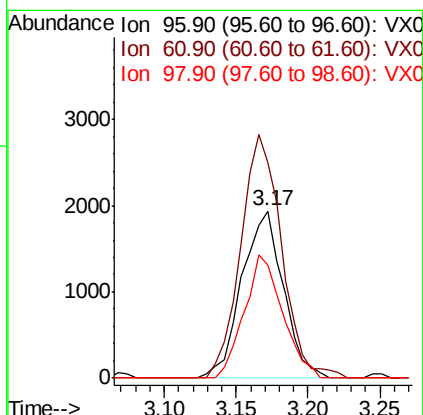
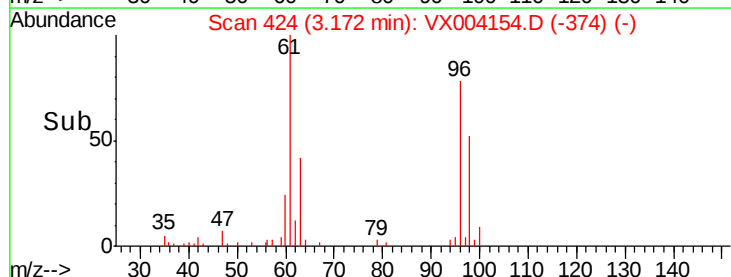
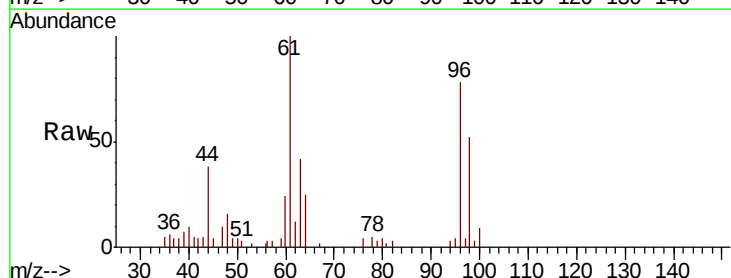
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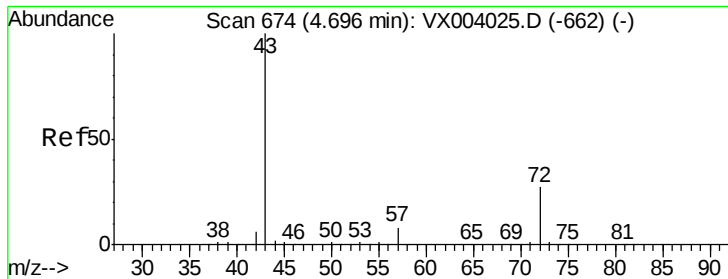
Tot Ion:	84	Resp:	549
Ion	Ratio	Lower	Upper
84	100		
49	105.8	98.9	148.3
51	36.9	29.9	44.9
86	55.5	51.0	76.6



#21
trans-1,2-Dichloroethene
Concen: 1.25 ug/l
RT: 3.17 min Scan# 424
Delta R.T. 0.01 min
Lab File: VX004154.D
Acq: 20 Aug 2018 15:49

Tgt Ion:	96	Resp:	3874
Ion	Ratio	Lower	Upper
96	100		
61	128.9	111.8	167.6
98	67.2	51.8	77.6





#25

2-Butanone

Concen: 0.42 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.02 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

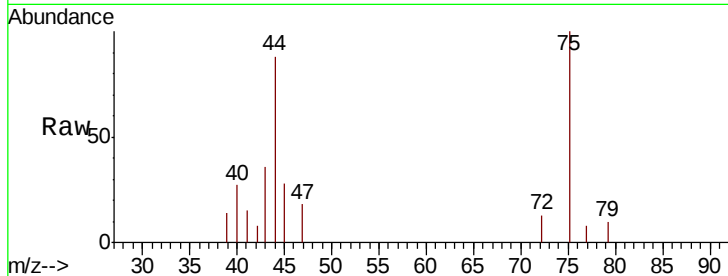
KY070MW233-180815

Tot Ion: 43 Resp: 1284

Ion Ratio Lower Upper

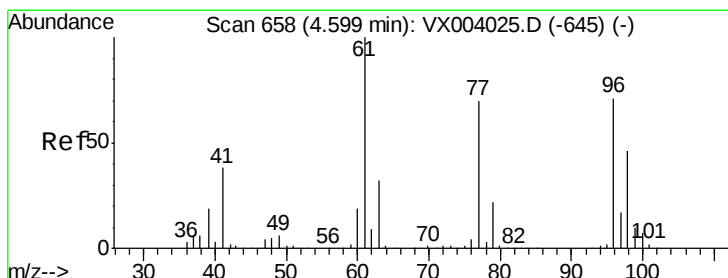
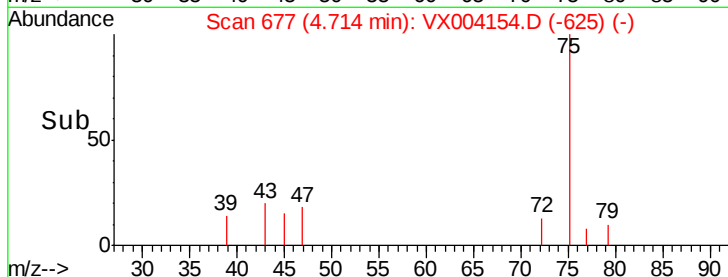
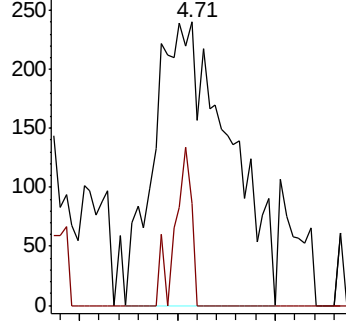
43 100

72 35.8 21.4 32.0#



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: 4.10 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

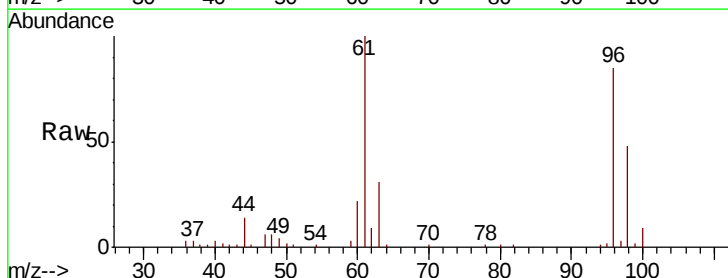
Tgt Ion: 96 Resp: 14311

Ion Ratio Lower Upper

96 100

61 123.8 0.0 293.0

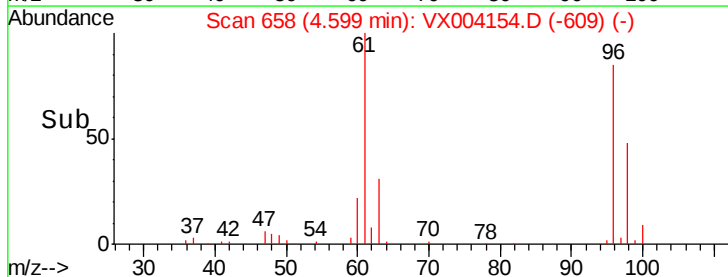
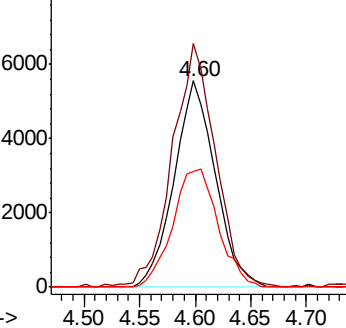
98 63.0 0.0 131.8

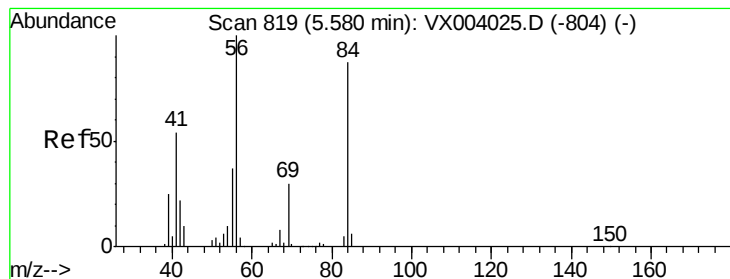


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 0.88 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

KY070MW233-180815

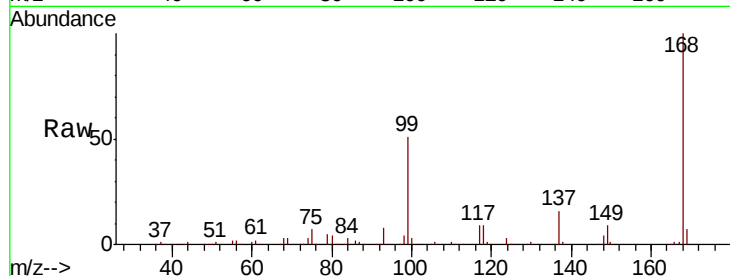
Tot Ion: 56 Resp: 4432

Ion Ratio Lower Upper

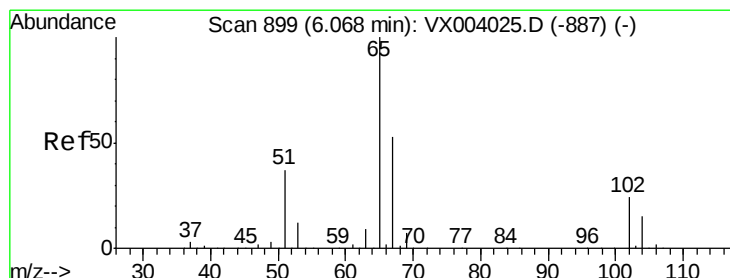
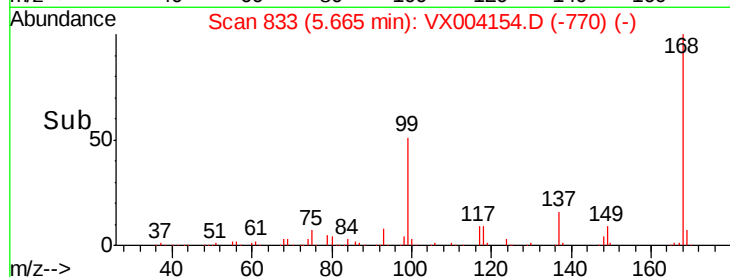
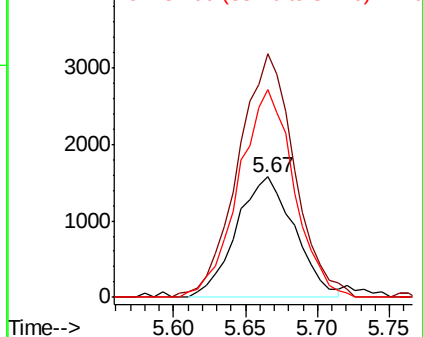
56 100

69 198.0 24.9 37.3#

84 168.0 71.7 107.5#



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: 52.44 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004154.D

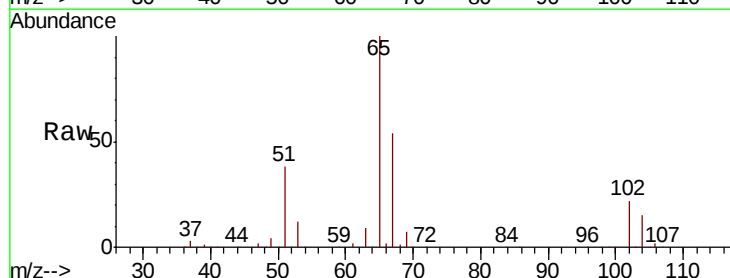
Acq: 20 Aug 2018 15:49

Tgt Ion: 65 Resp: 191741

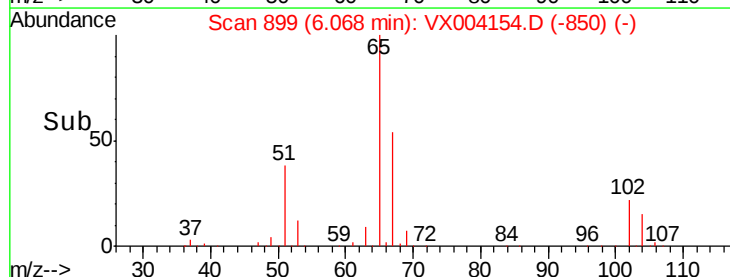
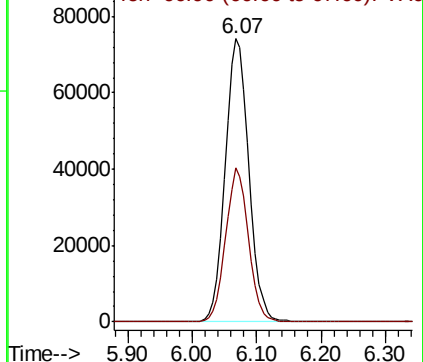
Ion Ratio Lower Upper

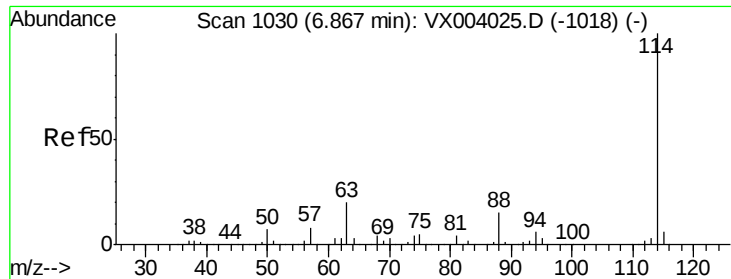
65 100

67 52.7 0.0 105.8



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# 1030

Delta R.T. -0.00 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

KY070MW233-180815

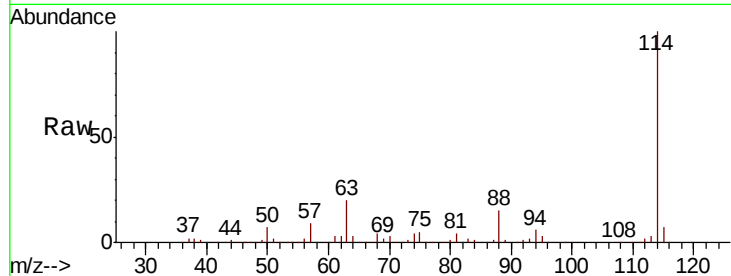
Tot Ion:114 Resp: 403341

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

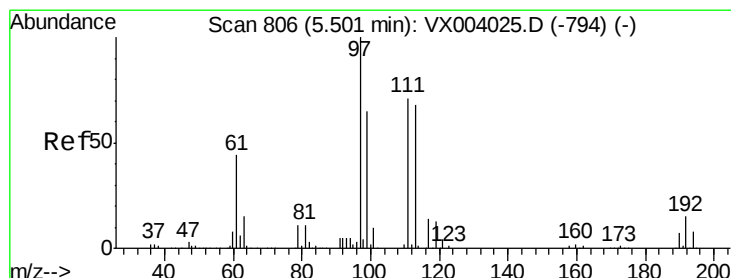
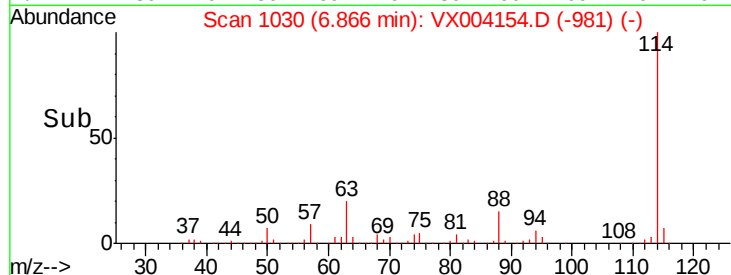
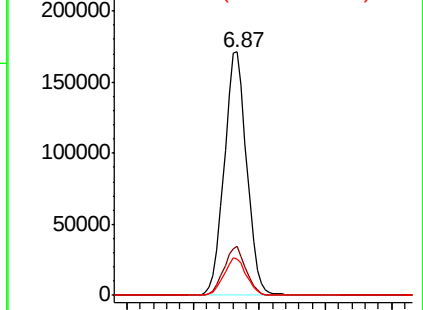
88 15.1 0.0 32.0



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: 54.78 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

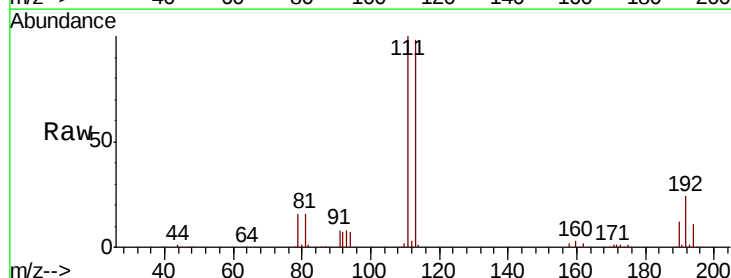
Tgt Ion:113 Resp: 165356

Ion Ratio Lower Upper

113 100

111 101.7 82.0 123.0

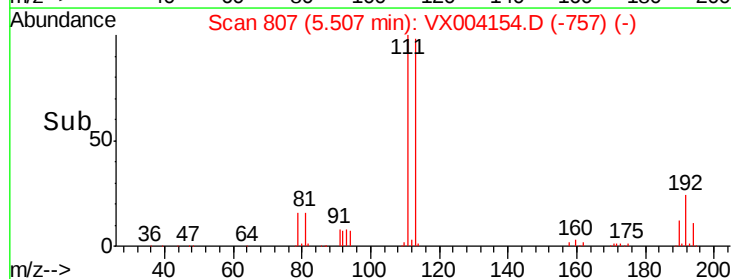
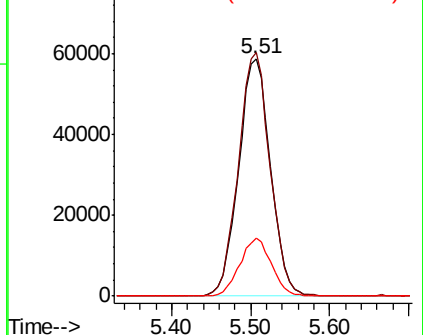
192 24.1 19.0 28.4

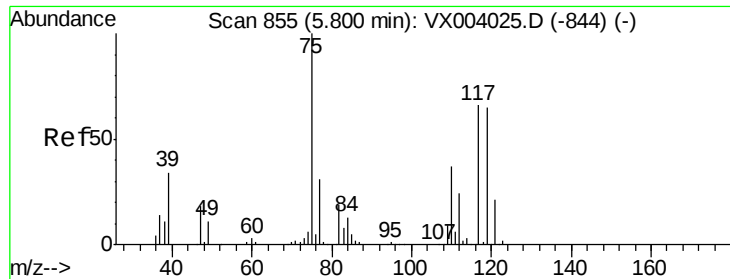


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

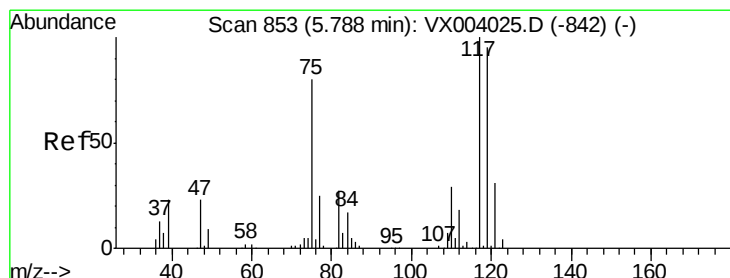
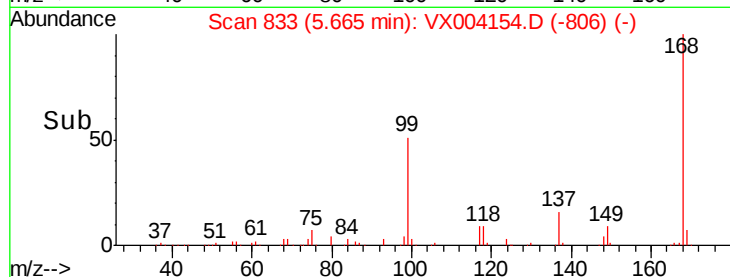
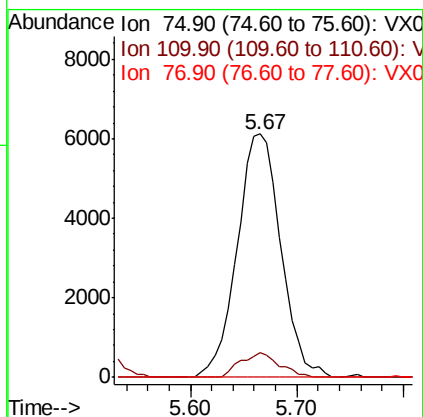
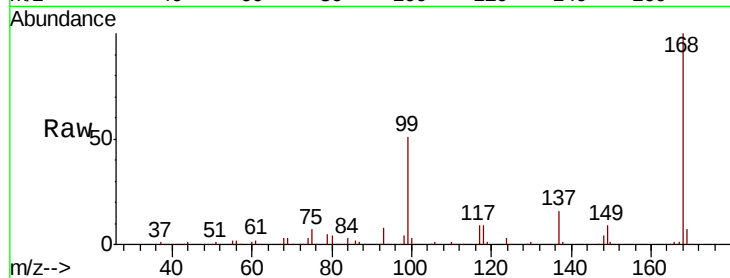




#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004154.D
 Acq: 20 Aug 2018 15:49

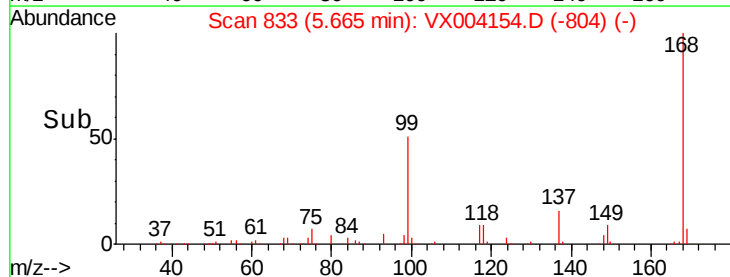
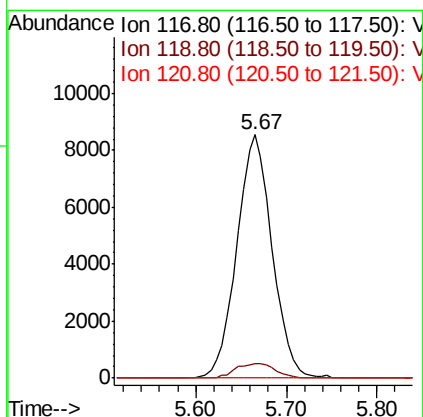
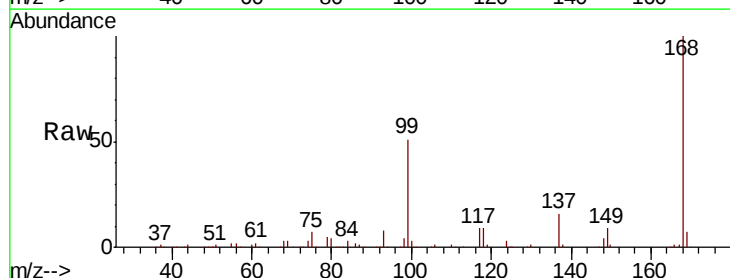
Instrument :
 MSVOA_X
 ClientSampleId :
 KY070MW233-180815

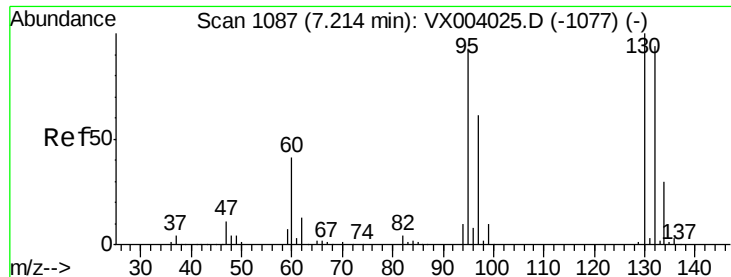
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.2	54.6#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.16 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX004154.D
 Acq: 20 Aug 2018 15:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	79.5	119.3#
121	0.0	25.0	37.4#





#44

Trichloroethene

Concen: 0.36 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

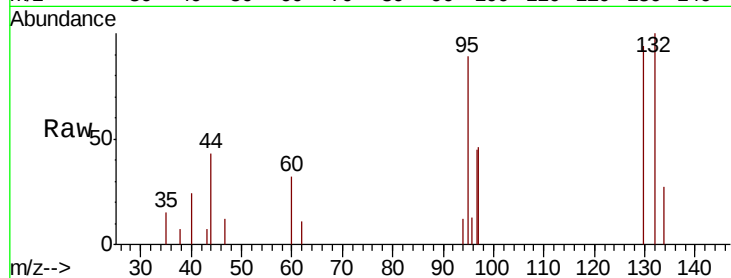
KY070MW233-180815

Tot Ion:130 Resp: 1335

Ion Ratio Lower Upper

130 100

95 95.5 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

800

600

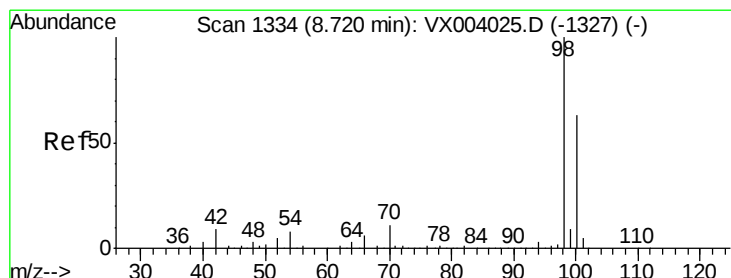
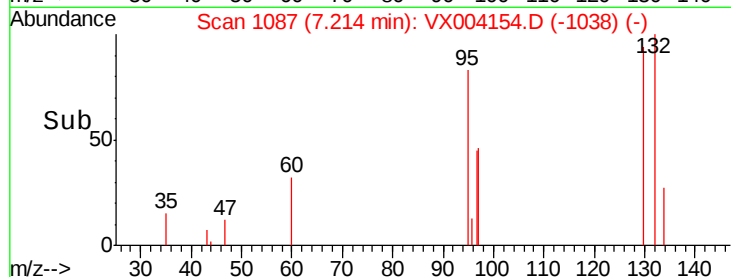
400

200

0

7.15 7.20 7.25

Time-->



#50

Toluene-d8

Concen: 47.32 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004154.D

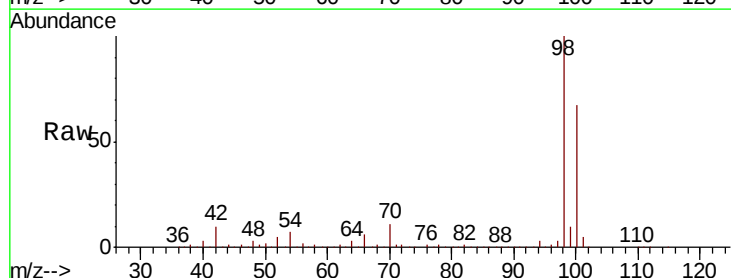
Acq: 20 Aug 2018 15:49

Tgt Ion: 98 Resp: 579213

Ion Ratio Lower Upper

98 100

100 65.3 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

400000

300000

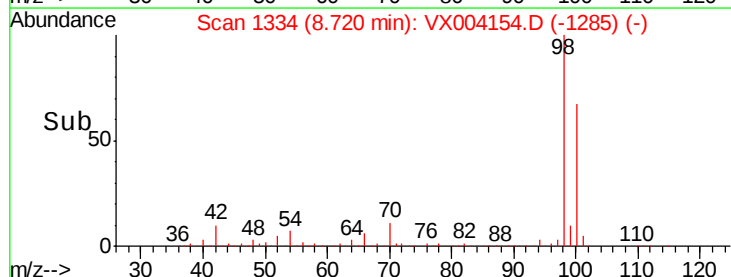
200000

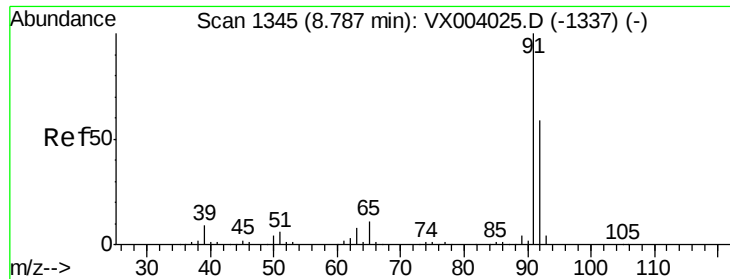
100000

0

8.60 8.70 8.80 8.90

Time-->





#52

Toluene

Concen: 0.22 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

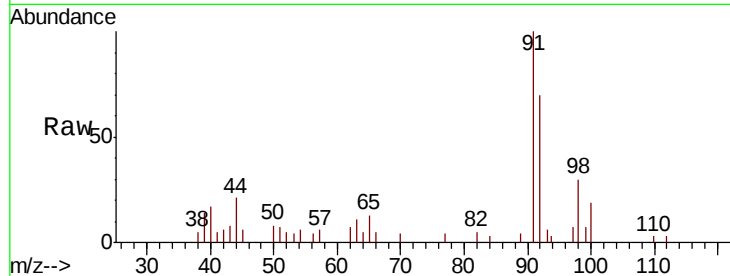
KY070MW233-180815

Tot Ion: 92 Resp: 1874

Ion Ratio Lower Upper

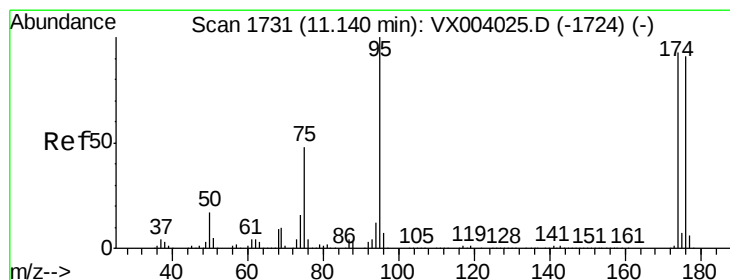
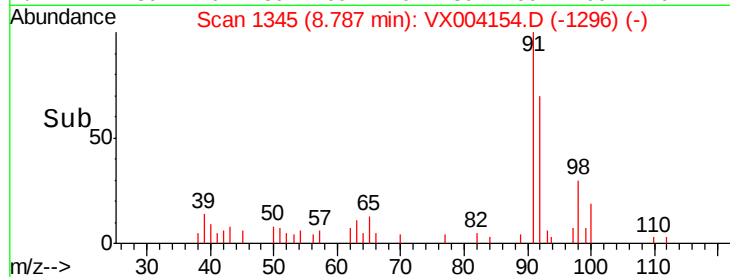
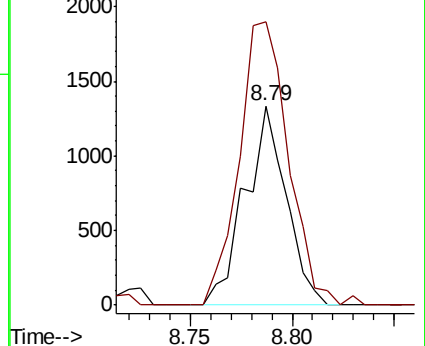
92 100

91 170.7 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 44.87 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

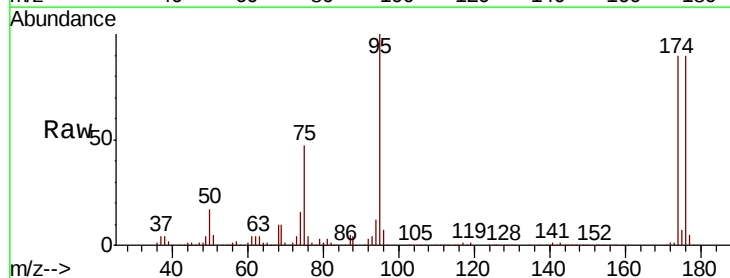
Tgt Ion: 95 Resp: 199159

Ion Ratio Lower Upper

95 100

174 91.8 0.0 182.8

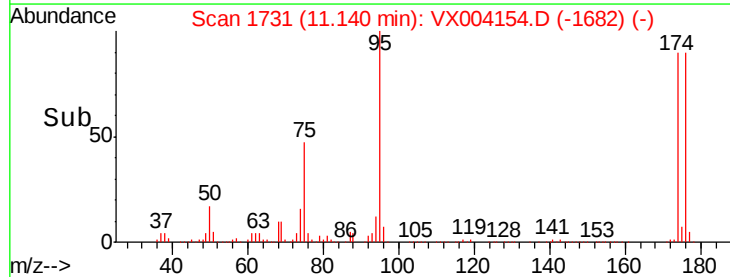
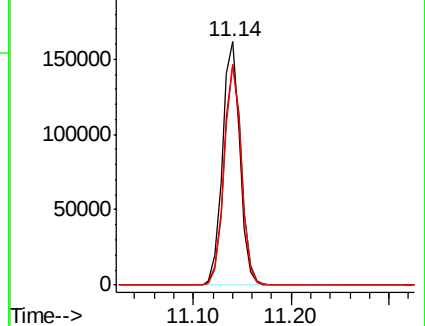
176 88.8 0.0 179.0

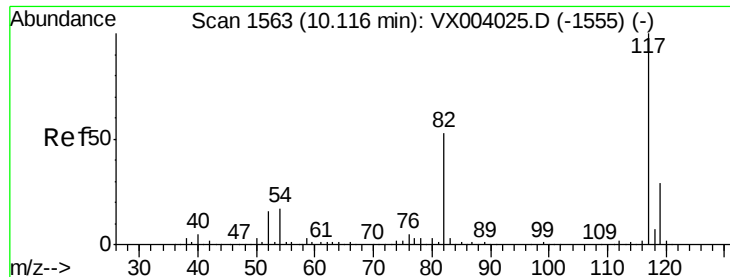


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

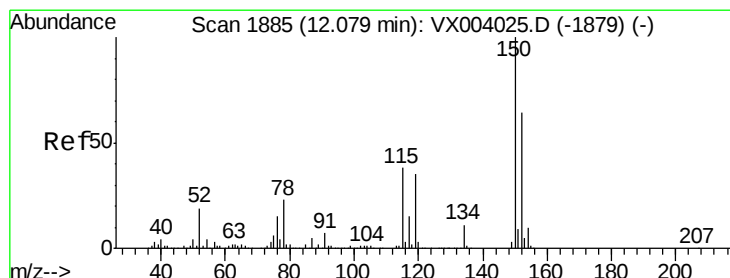
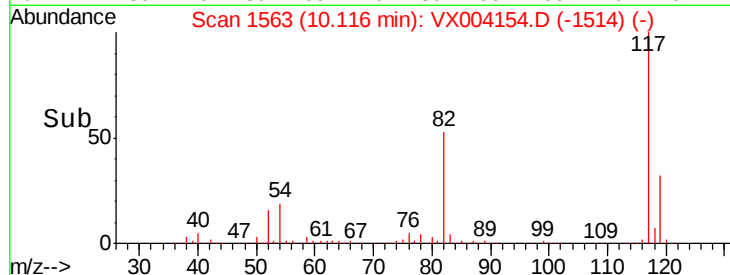
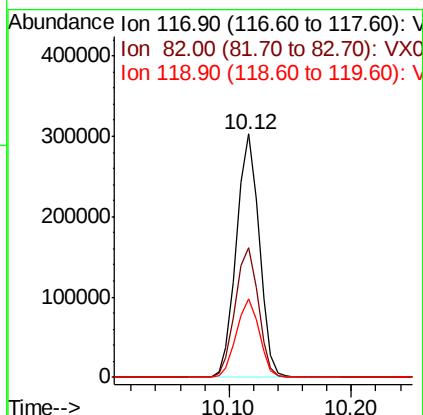
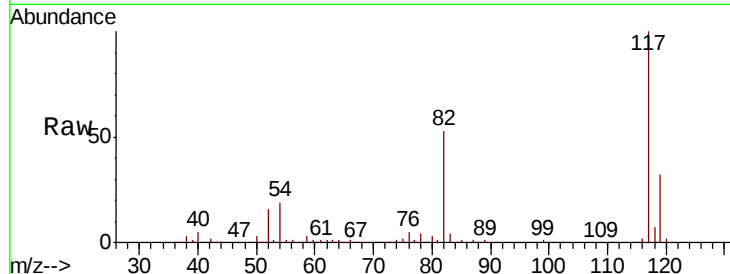




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004154.D
Acq: 20 Aug 2018 15:49

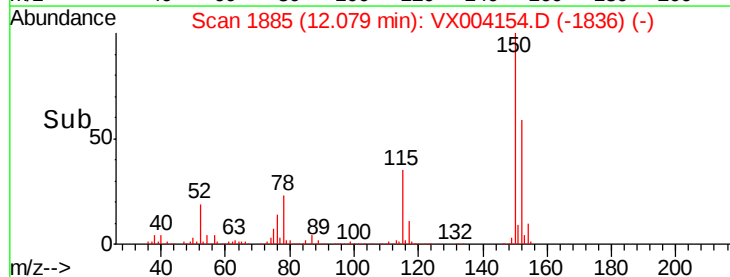
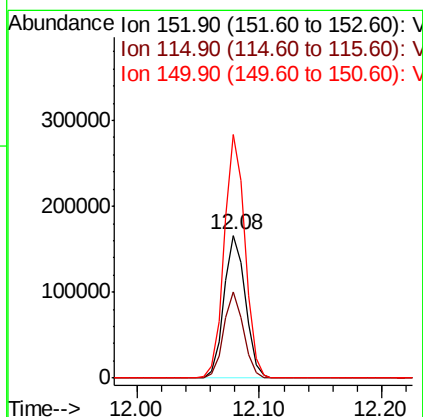
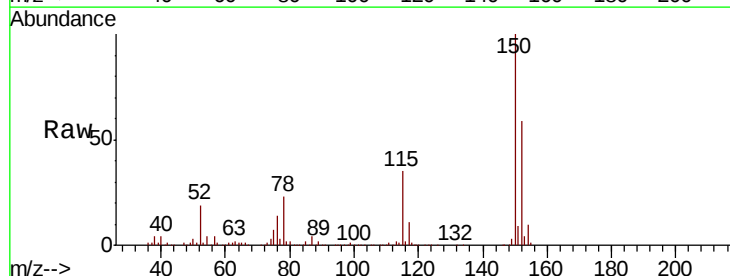
Instrument :
MSVOA_X
ClientSampleId :
KY070MW233-180815

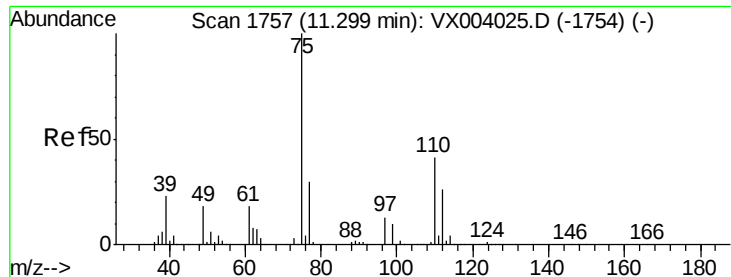
Tot Ion:117 Resp: 390773
Ion Ratio Lower Upper
117 100
82 53.0 45.4 68.0
119 32.2 26.6 40.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004154.D
Acq: 20 Aug 2018 15:49

Tgt Ion:152 Resp: 201145
Ion Ratio Lower Upper
152 100
115 56.6 39.1 117.3
150 165.2 0.0 349.2

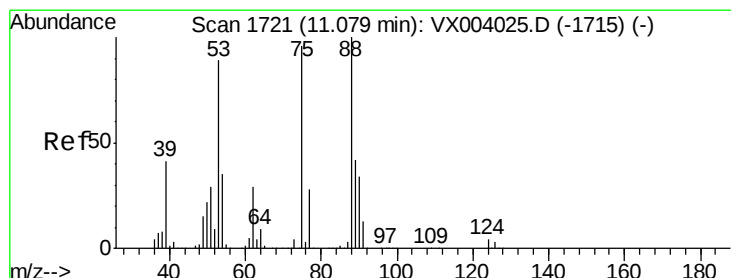
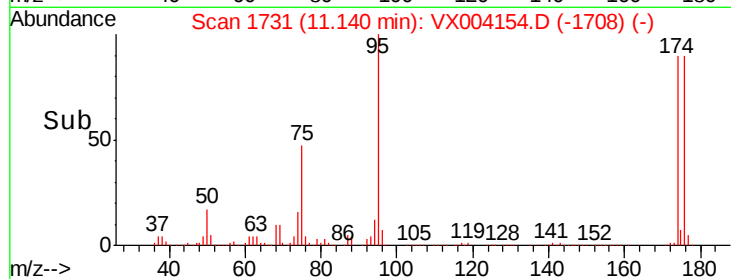
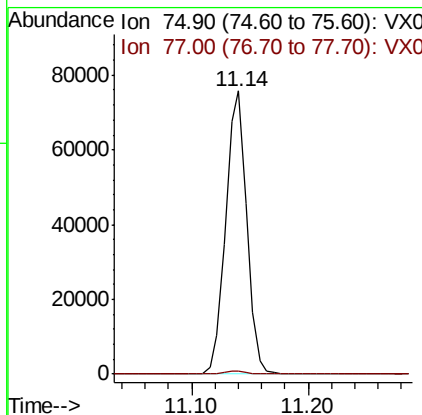
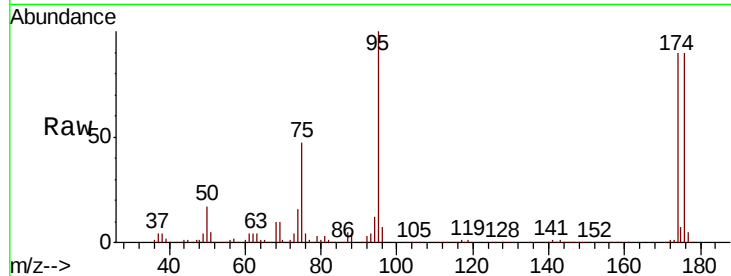




#76
 1,2,3-Trichloropropane
 Concen: 23.43 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX004154.D
 Acq: 20 Aug 2018 15:49

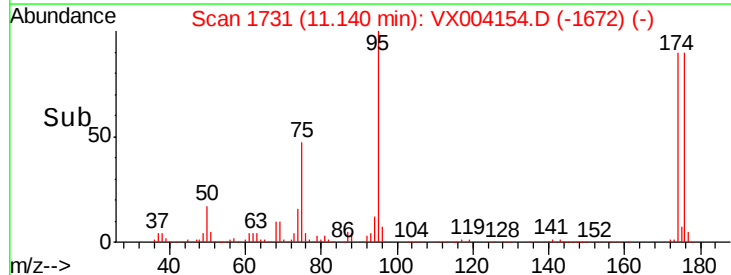
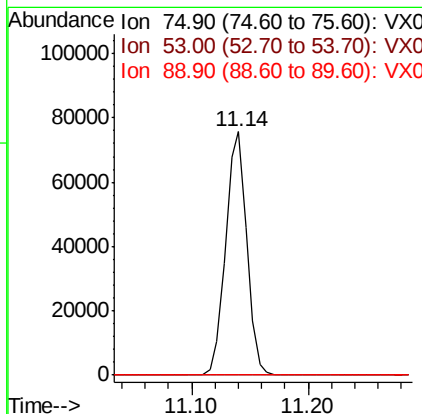
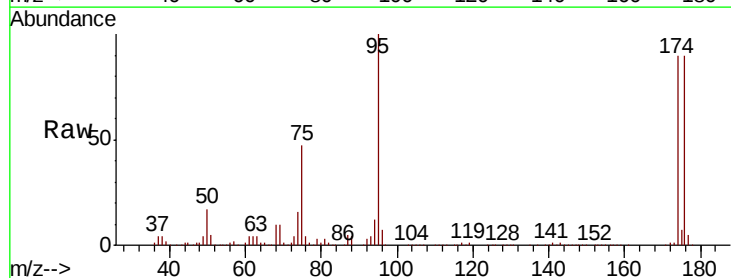
Instrument :
 MSVOA_X
 ClientSampleId :
 KY070MW233-180815

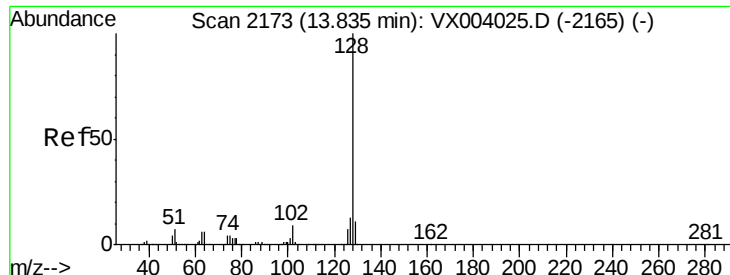
Tot Ion: 75 Resp: 94523
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.54 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX004154.D
 Acq: 20 Aug 2018 15:49

Tgt Ion: 75 Resp: 94523
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.3 120.5#
 89 0.0 37.8 56.8#





#95

Naphthalene

Concen: 1.16 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004154.D

Acq: 20 Aug 2018 15:49

Instrument :

MSVOA_X

ClientSampleId :

KY070MW233-180815

Tot Ion:128 Resp: 262

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#

