

Data File : VX000173.D

Acq On : 28 Feb 2018 17:58

Operator : JC/MD

Sample : J1683-01

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW06-GW

Quant Time: Mar 01 06:34:28 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X021418W.M

Quant Title : SW846 8260

QLast Update : Thu Feb 15 12:46:41 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	121860	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	204905	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	190875	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	101828	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	85720	56.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.66%	
35) Dibromofluoromethane	5.51	113	65023	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
50) Toluene-d8	8.73	98	250909	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
62) 4-Bromofluorobenzene	11.15	95	95467	47.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.46%	

Target Compounds

						Qvalue
5) Bromomethane	1.67	94	260	Below Cal		91
6) Chloroethane	1.75	64	302	0.33 ug/l	#	42
11) Tert butyl alcohol	3.07	59	664	1.13 ug/l	#	56
16) Acetone	2.45	43	1704	1.73 ug/l		99
20) Methylene Chloride	2.87	84	225	Below Cal	#	71
25) 2-Butanone	4.72	43	326	0.24 ug/l	#	48
28) Bromochloromethane	5.23	49	283	0.29 ug/l	#	7
30) Chloroform	5.23	83	2715	1.17 ug/l		88
31) Cyclohexane	5.67	56	2984	1.57 ug/l	#	36
36) 1,1-Dichloropropene	5.68	75	9953	5.41 ug/l	#	47
38) Carbon Tetrachloride	5.67	117	12617	6.35 ug/l	#	16
41) Methacrylonitrile	5.06	41	63	Below Cal	#	21
43) Isopropyl Acetate	6.36	43	3698	1.02 ug/l	#	60
51) 4-Methyl-2-Pentanone	8.68	43	1027	0.39 ug/l	#	36
74) N-amyl acetate	6.36	43	3698	1.13 ug/l	#	57
76) 1,2,3-Trichloropropane	11.15	75	53050	25.15 ug/l	#	32
81) trans-1,4-Dichloro-2-buten	11.15	75	53050	71.63 ug/l	#	12
92) 1,2-Dibromo-3-Chloropropan	12.83	75	200	0.32 ug/l	#	1
95) Naphthalene	13.84	128	1785	0.21 ug/l		96

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

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ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW06-GW

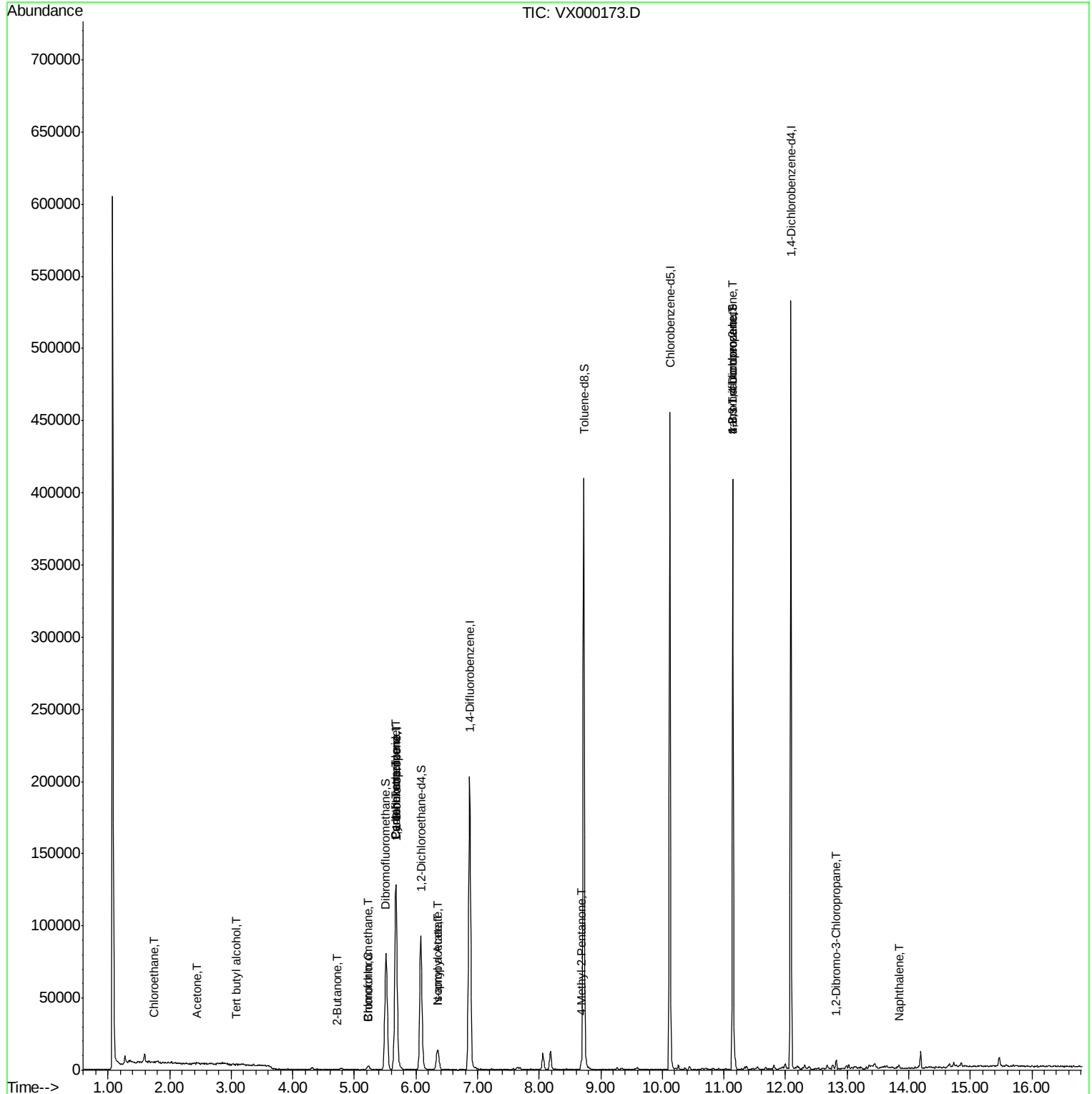
Quant Time: Mar 01 06:34:28 2018

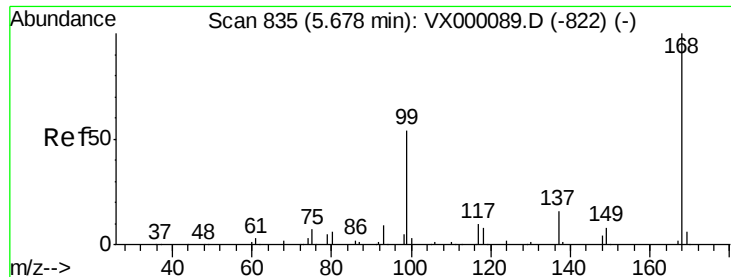
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X021418W.M

Quant Title : SW846 8260

QLast Update : Thu Feb 15 12:46:41 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

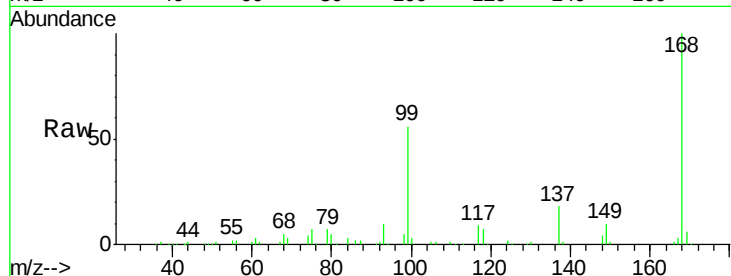
RFK-RMAB-MW06-GW

Tgt Ion: 168 Resp: 121860

Ion Ratio Lower Upper

168 100

99 56.3 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

40000

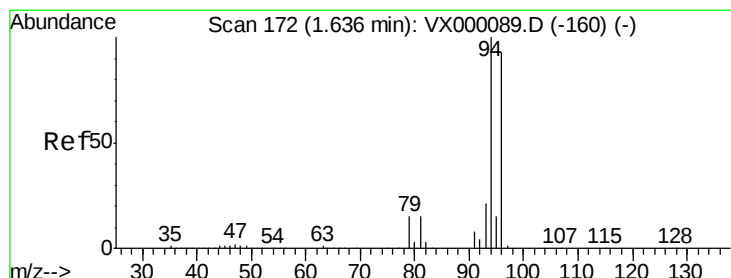
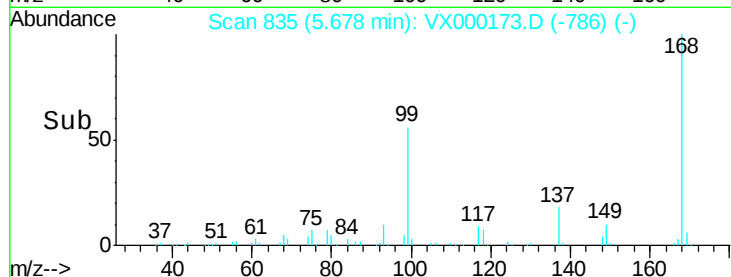
30000

20000

10000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX000173.D

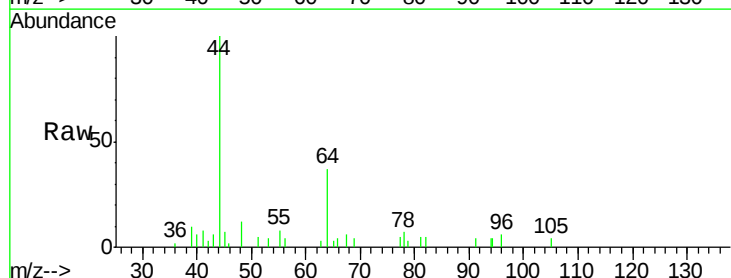
Acq: 28 Feb 2018 17:58

Tgt Ion: 94 Resp: 260

Ion Ratio Lower Upper

94 100

96 84.6 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.67

200

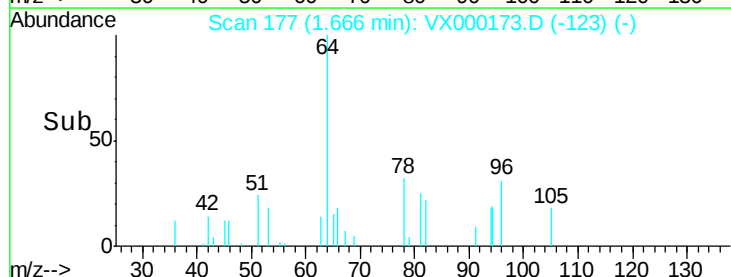
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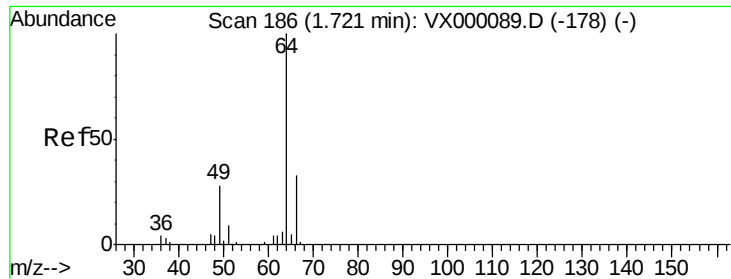
100

50

0

Time-->





#6

Chloroethane

Concen: 0.33 ug/l

RT: 1.75 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

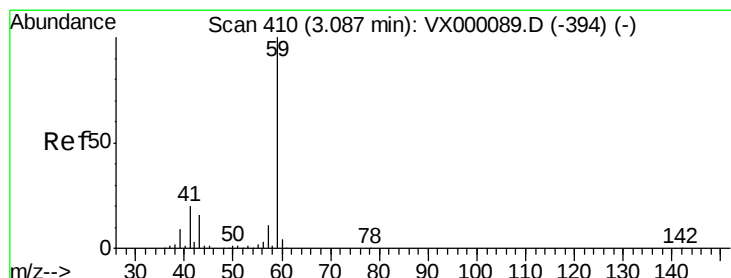
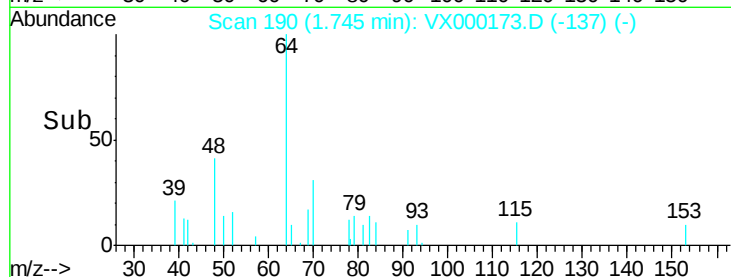
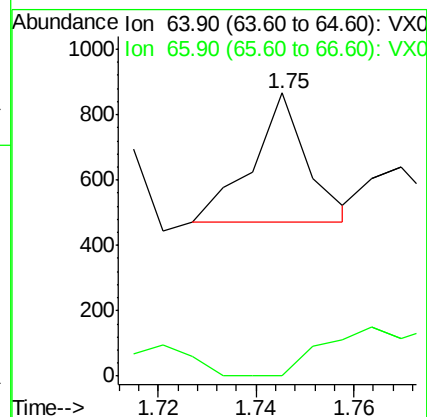
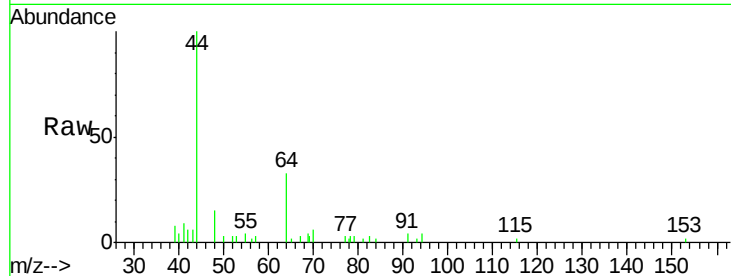
RFK-RMAB-MW06-GW

Tgt Ion: 64 Resp: 302

Ion Ratio Lower Upper

64 100

66 0.0 26.0 39.0#



#11

Tert butyl alcohol

Concen: 1.13 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX000173.D

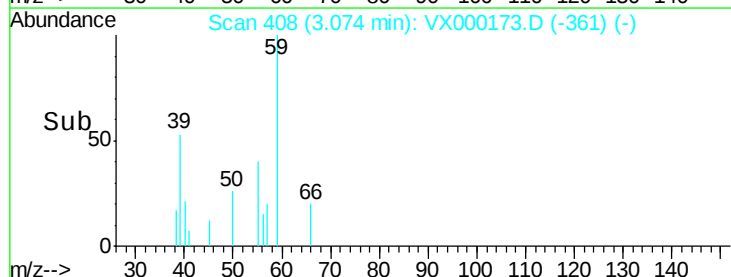
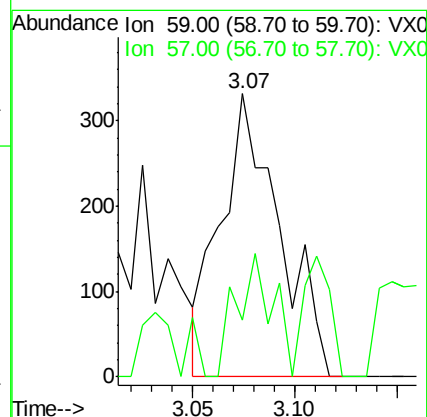
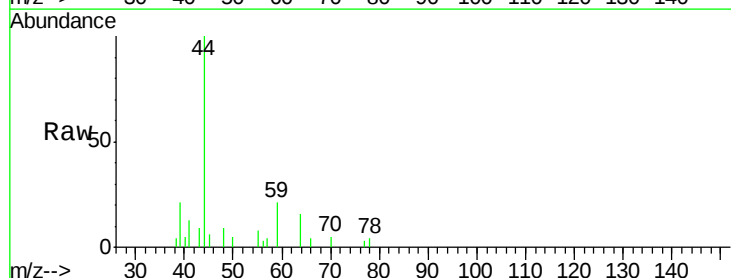
Acq: 28 Feb 2018 17:58

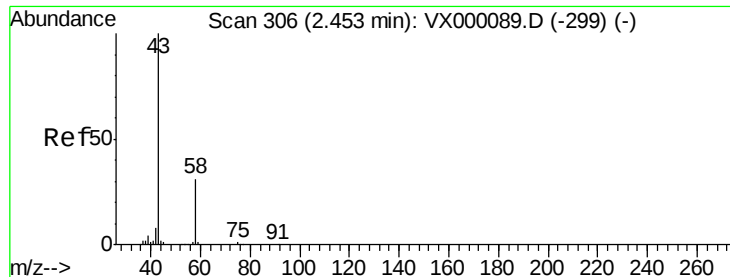
Tgt Ion: 59 Resp: 664

Ion Ratio Lower Upper

59 100

57 27.0 8.3 12.5#





#16

Acetone

Concen: 1.73 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

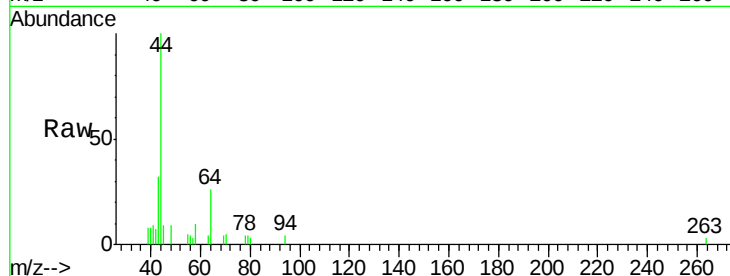
RFK-RMAB-MW06-GW

Tgt Ion: 43 Resp: 1704

Ion Ratio Lower Upper

43 100

58 30.7 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

600

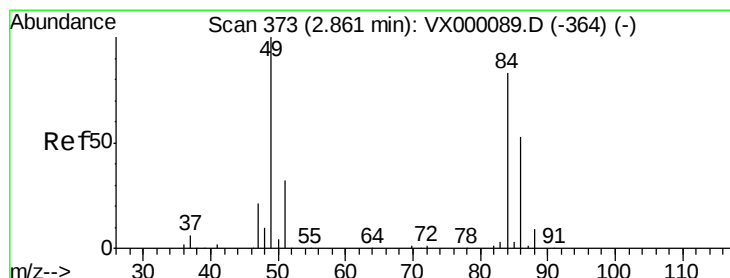
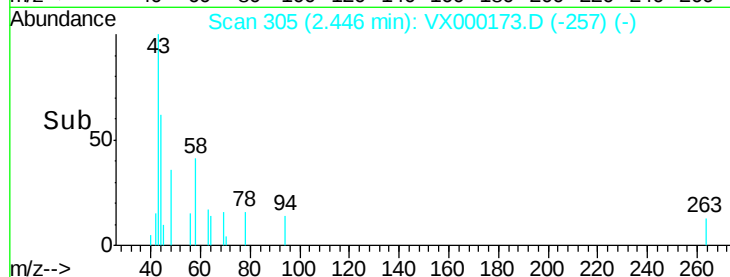
400

200

0

2.40 2.45 2.50

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Tgt Ion: 84 Resp: 225

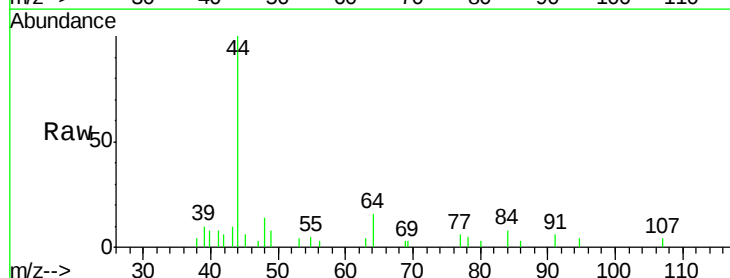
Ion Ratio Lower Upper

84 100

49 102.5 96.1 144.1

51 0.0 30.5 45.7#

86 38.0 51.3 76.9#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

250

200

150

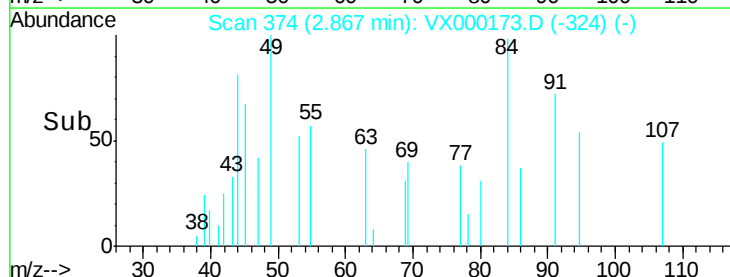
100

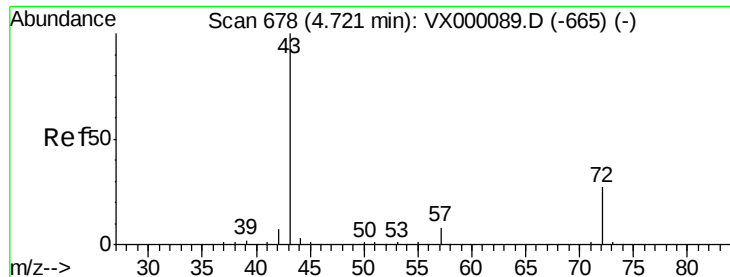
50

0

2.85 2.87 2.90

Time-->





#25

2-Butanone

Concen: 0.24 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.00 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

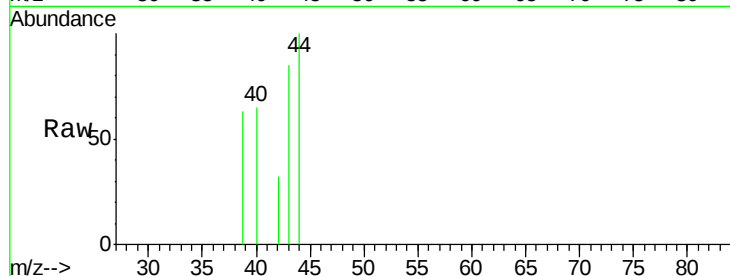
RFK-RMAB-MW06-GW

Tgt Ion: 43 Resp: 326

Ion Ratio Lower Upper

43 100

72 0.0 21.3 31.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.72

150

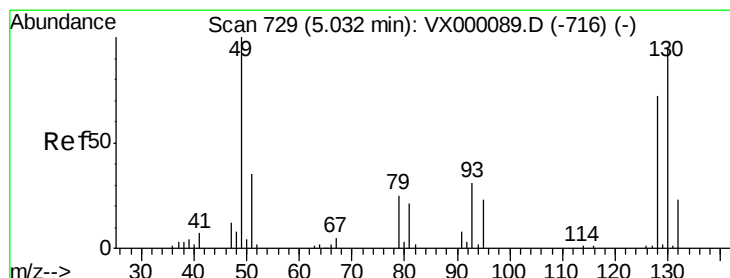
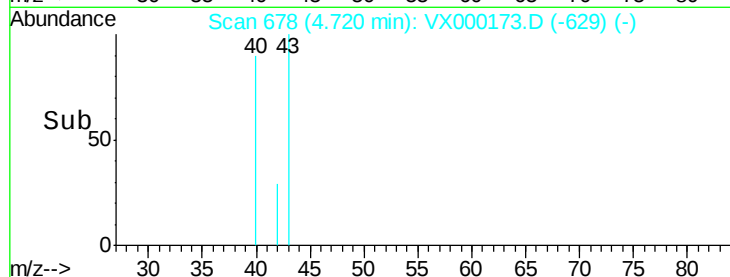
100

50

0

4.70 4.75 4.80

Time-->



#28

Bromochloromethane

Concen: 0.29 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.19 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

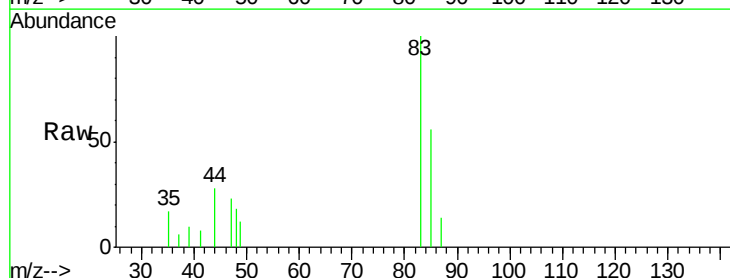
Tgt Ion: 49 Resp: 283

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 0.0 71.9 107.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

150

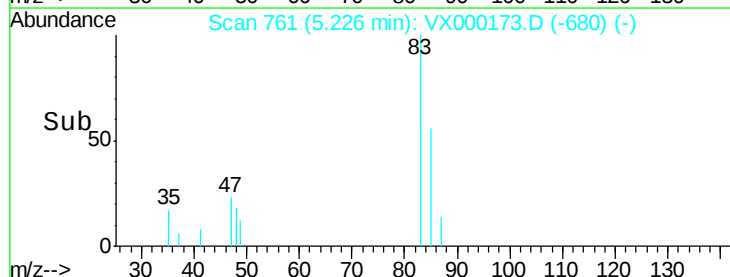
100

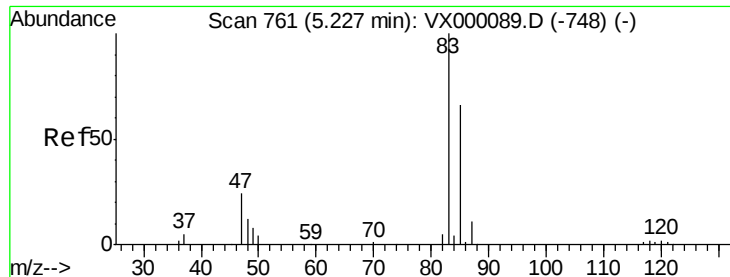
50

0

5.15 5.20 5.25

Time-->





#30

Chloroform

Concen: 1.17 ug/l

RT: 5.23 min Scan# 761

Delta R.T. -0.00 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

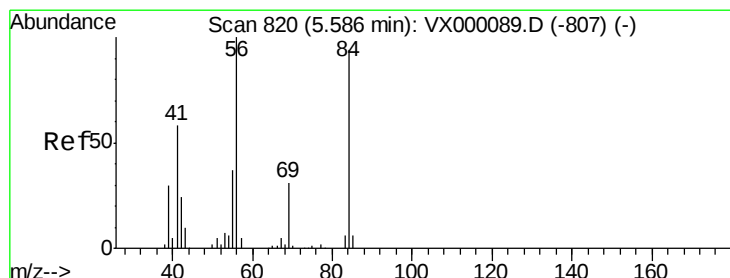
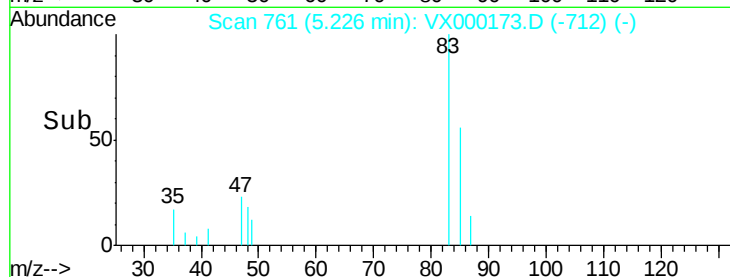
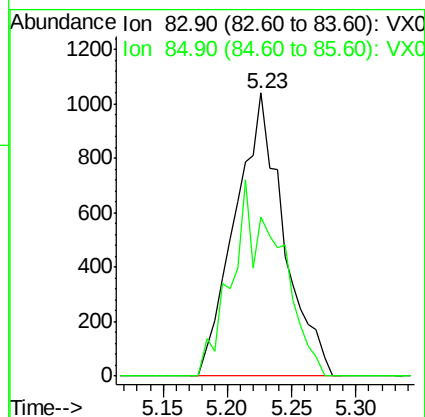
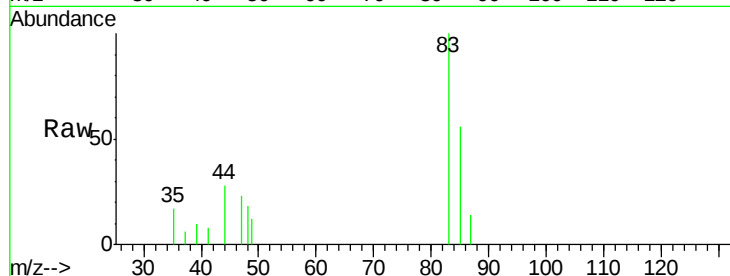
RFK-RMAB-MW06-GW

Tgt Ion: 83 Resp: 2715

Ion Ratio Lower Upper

83 100

85 56.3 52.7 79.1



#31

Cyclohexane

Concen: 1.57 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.08 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

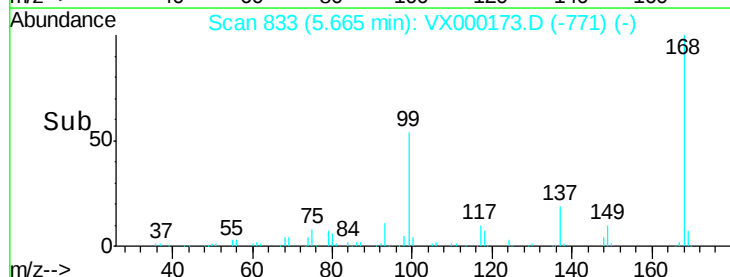
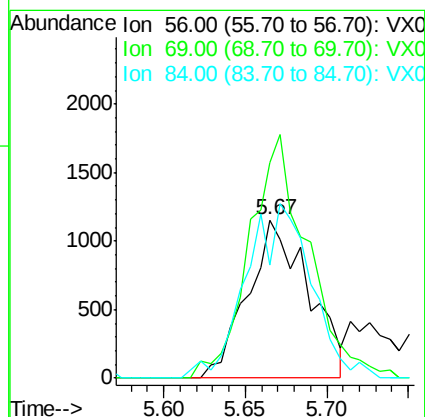
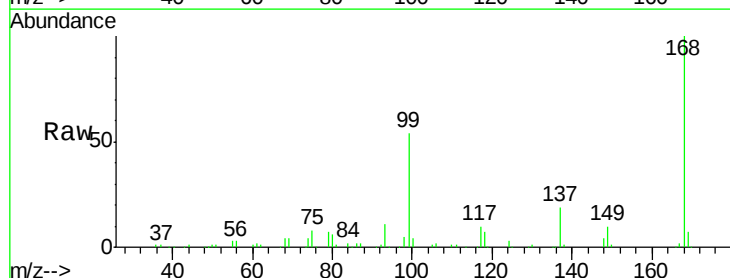
Tgt Ion: 56 Resp: 2984

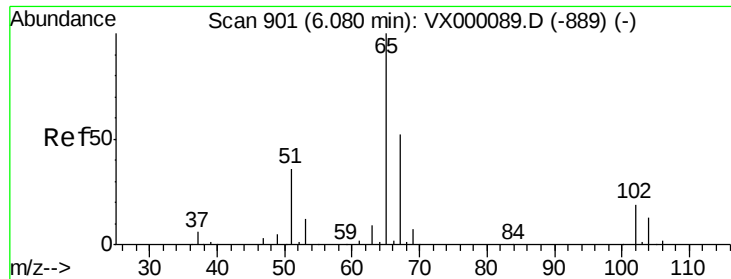
Ion Ratio Lower Upper

56 100

69 136.0 24.9 37.3#

84 72.6 75.0 112.4#

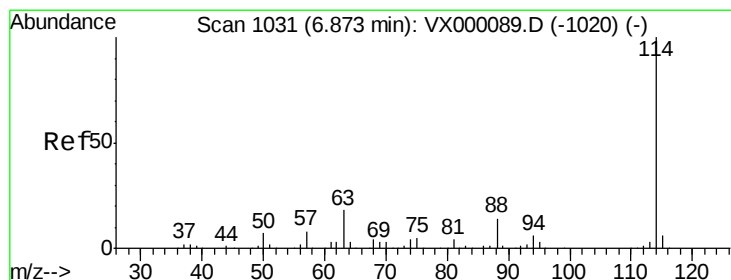
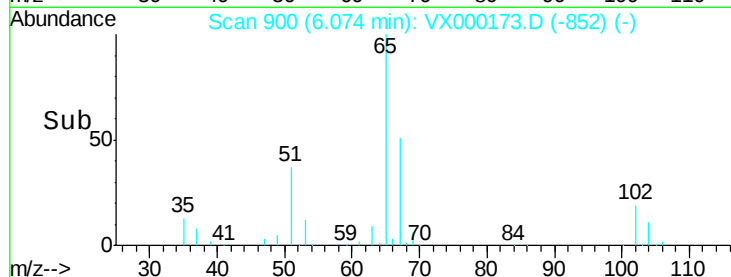
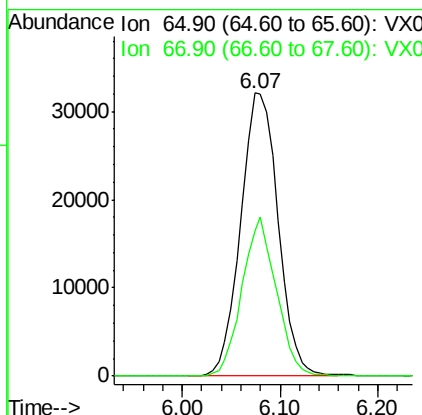
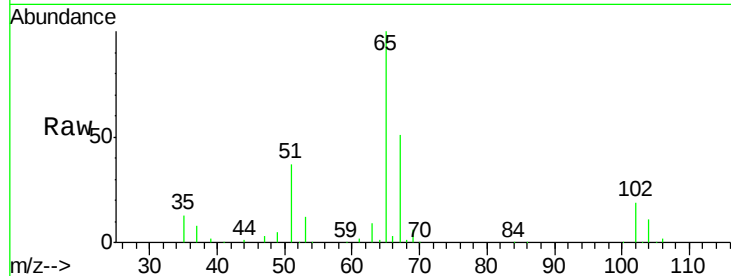




#33
 1,2-Dichloroethane-d4
 Concen: 56.33 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: VX000173.D
 Acq: 28 Feb 2018 17:58

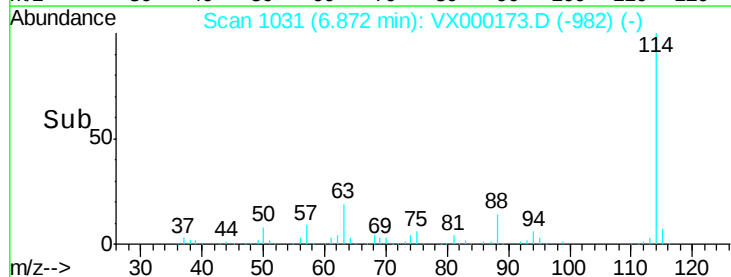
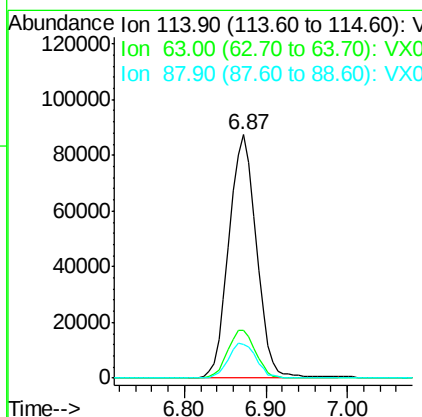
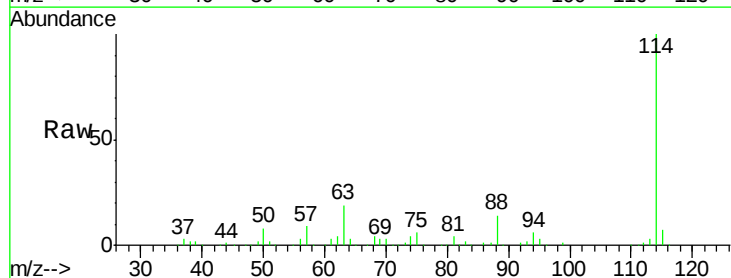
Instrument :
 MSVOA_X
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 RFK-RMAB-MW06-GW

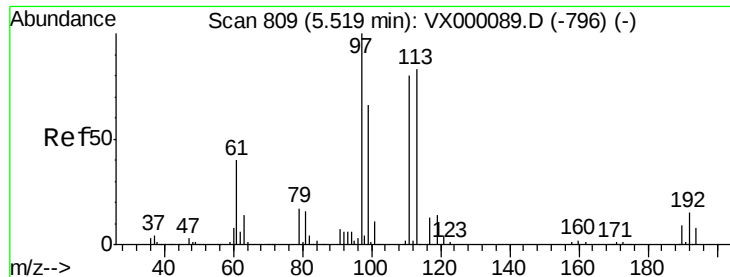
Tgt Ion: 65 Resp: 85720
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000173.D
 Acq: 28 Feb 2018 17:58

Tgt Ion: 114 Resp: 204905
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 36.4
 88 13.7 0.0 29.0

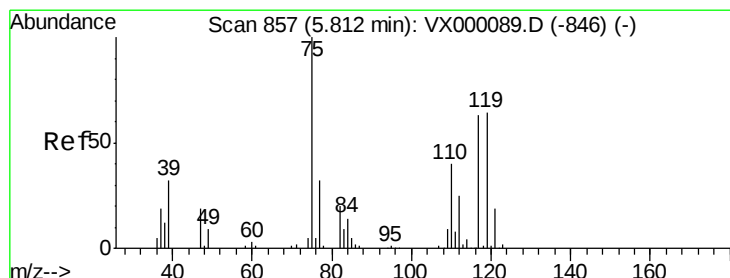
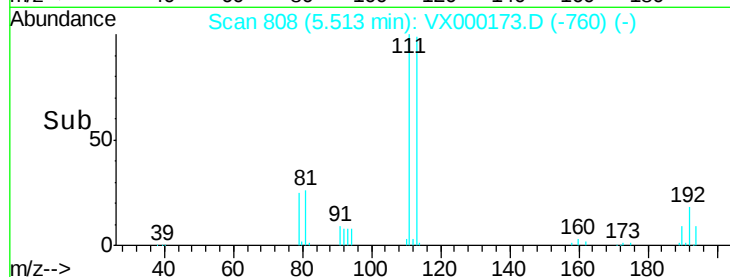
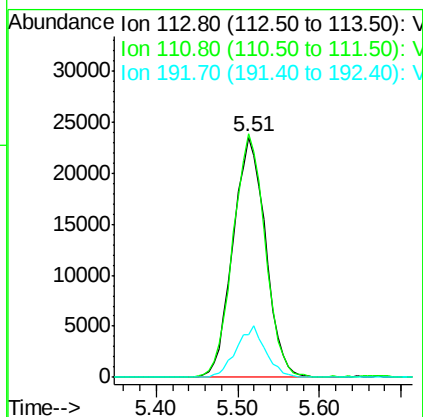
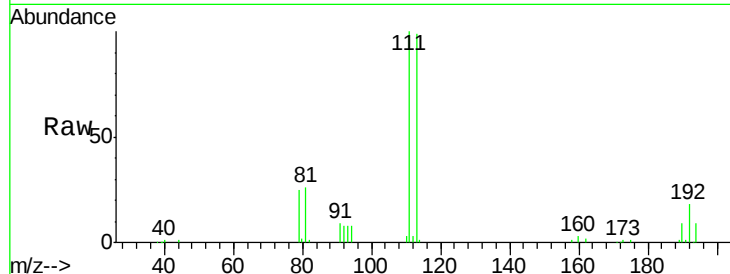




#35
 Dibromofluoromethane
 Concen: 50.28 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.01 min
 Lab File: VX000173.D
 Acq: 28 Feb 2018 17:58

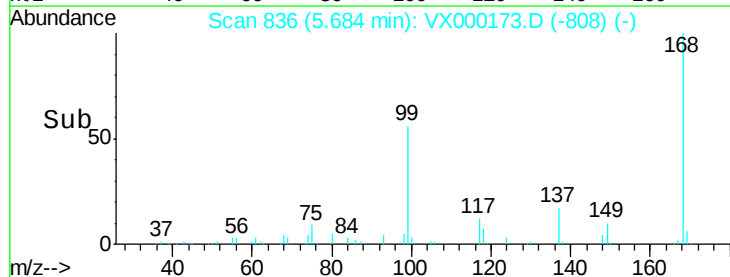
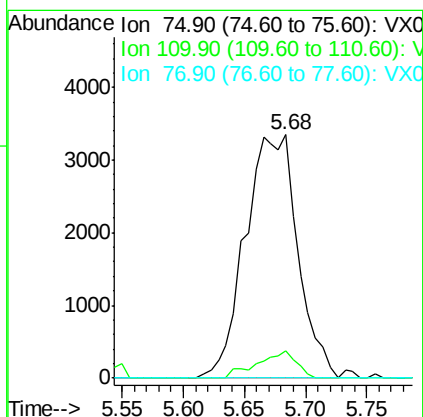
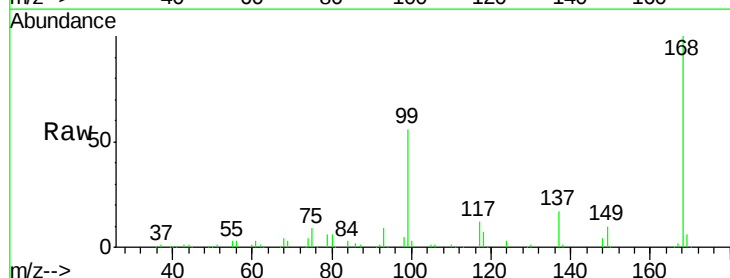
Instrument :
 MSVOA_X
 ClientSampleId :
 RFK-RMAB-MW06-GW

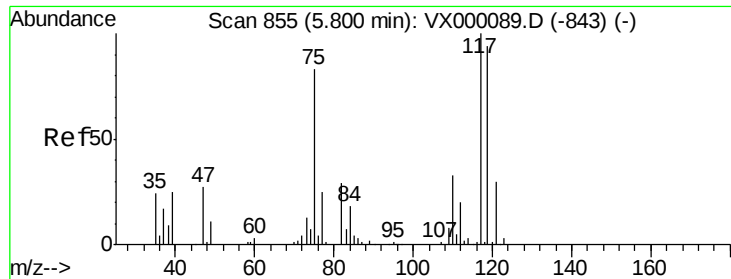
Tgt Ion:113 Resp: 65023
 Ion Ratio Lower Upper
 113 100
 111 100.0 81.0 121.6
 192 19.1 15.7 23.5



#36
 1,1-Dichloropropene
 Concen: 5.41 ug/l
 RT: 5.68 min Scan# 836
 Delta R.T. -0.13 min
 Lab File: VX000173.D
 Acq: 28 Feb 2018 17:58

Tgt Ion: 75 Resp: 9953
 Ion Ratio Lower Upper
 75 100
 110 8.3 19.5 58.5#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.35 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW06-GW

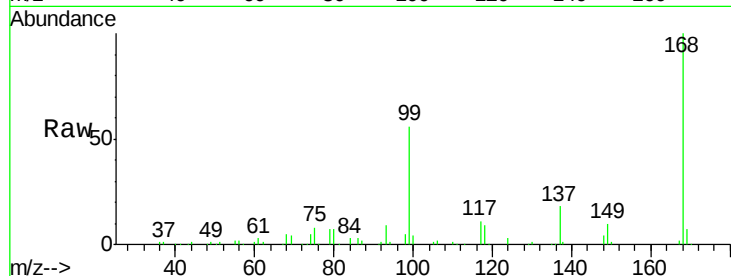
Tgt Ion:117 Resp: 12617

Ion Ratio Lower Upper

117 100

119 4.4 75.3 112.9#

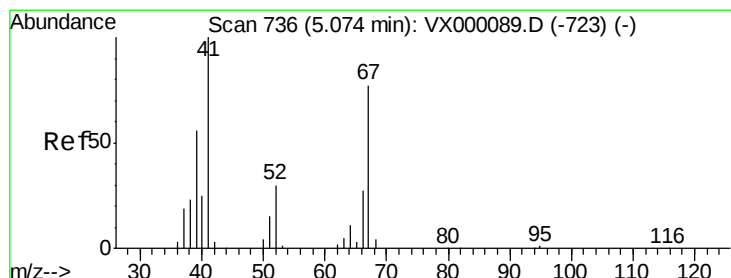
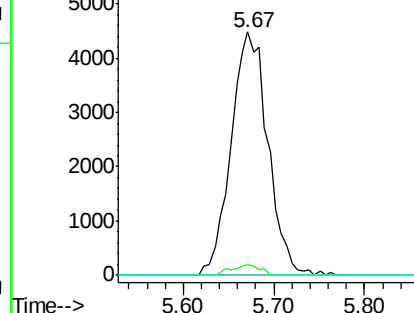
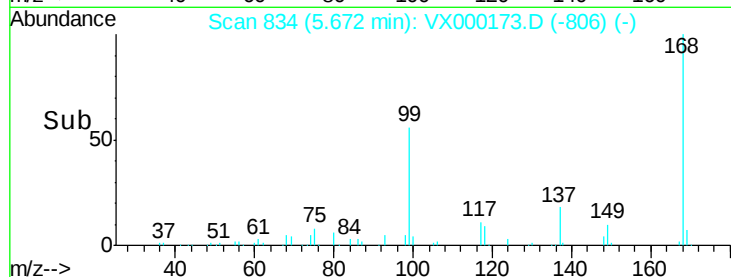
121 0.0 23.7 35.5#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 5.06 min Scan# 733

Delta R.T. -0.02 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Tgt Ion: 41 Resp: 63

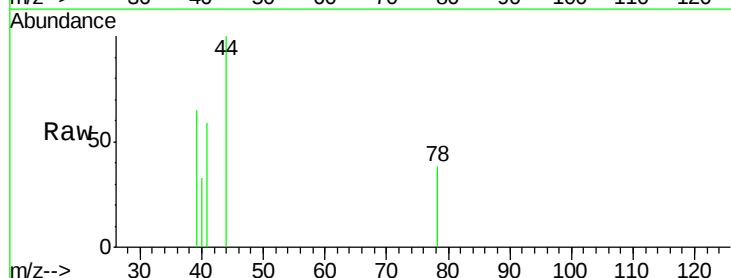
Ion Ratio Lower Upper

41 100

39 0.0 45.1 67.7#

67 0.0 61.0 91.4#

52 0.0 25.8 38.6#

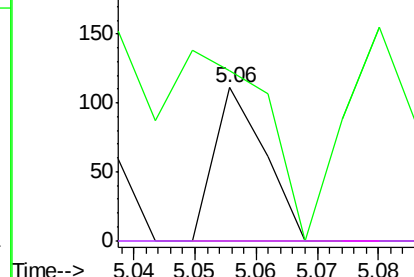
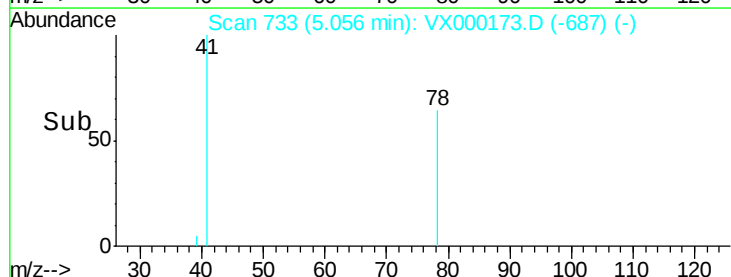


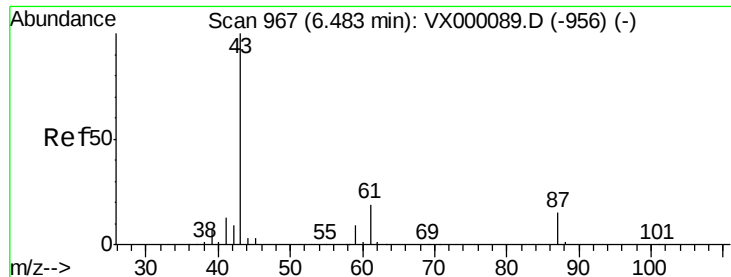
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 1.02 ug/l

RT: 6.36 min Scan# 947

Delta R.T. -0.12 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW06-GW

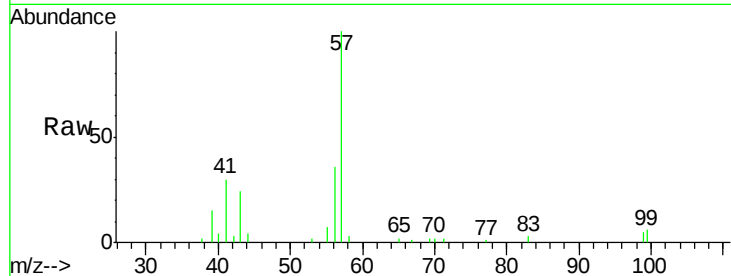
Tgt Ion: 43 Resp: 3698

Ion Ratio Lower Upper

43 100

61 0.0 15.6 23.4#

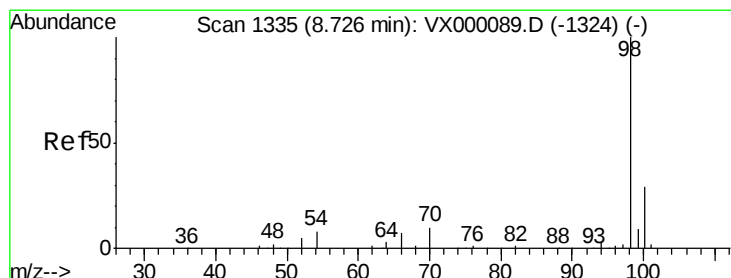
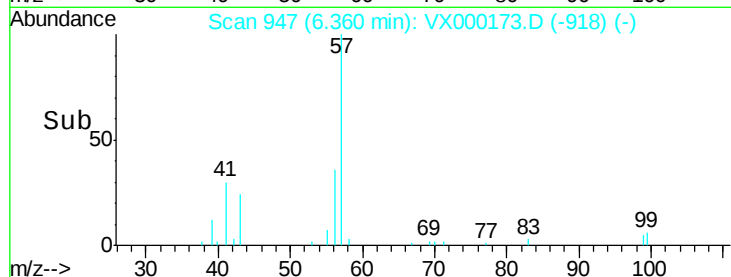
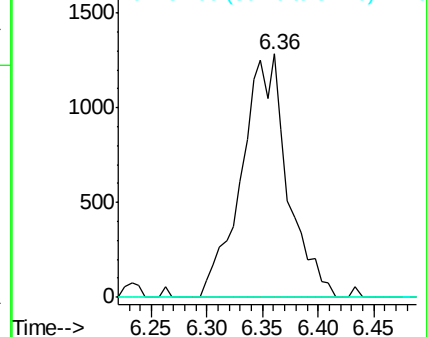
87 0.0 11.7 17.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 49.18 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000173.D

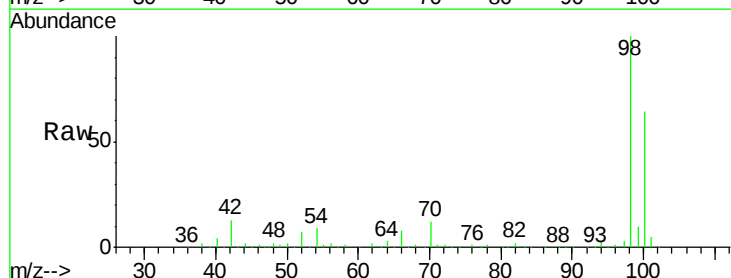
Acq: 28 Feb 2018 17:58

Tgt Ion: 98 Resp: 250909

Ion Ratio Lower Upper

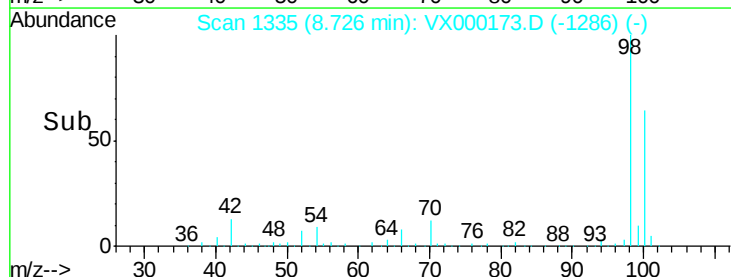
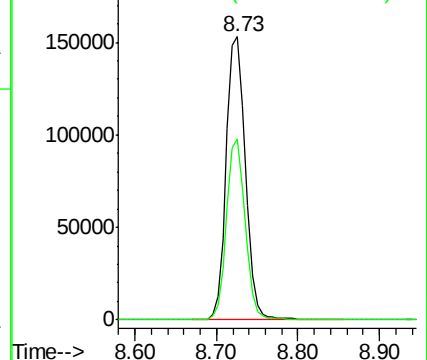
98 100

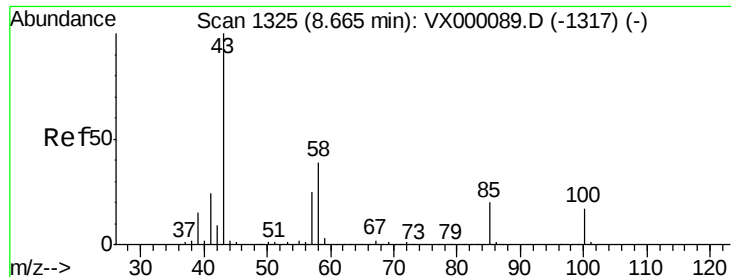
100 62.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.39 ug/l

RT: 8.68 min Scan# 1328

Delta R.T. 0.02 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

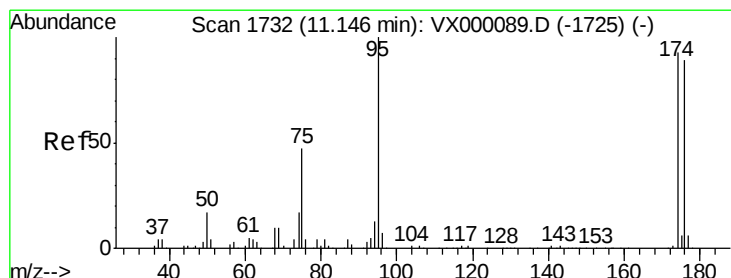
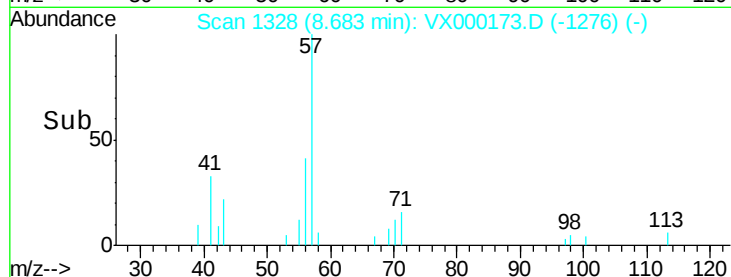
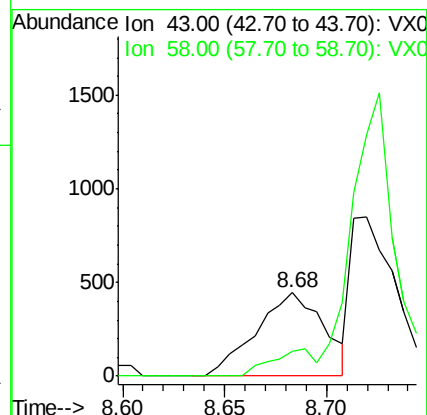
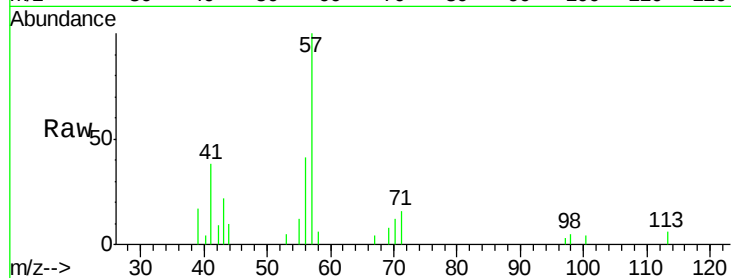
RFK-RMAB-MW06-GW

Tgt Ion: 43 Resp: 1027

Ion Ratio Lower Upper

43 100

58 0.0 31.6 47.4#



#62

4-Bromofluorobenzene

Concen: 47.73 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

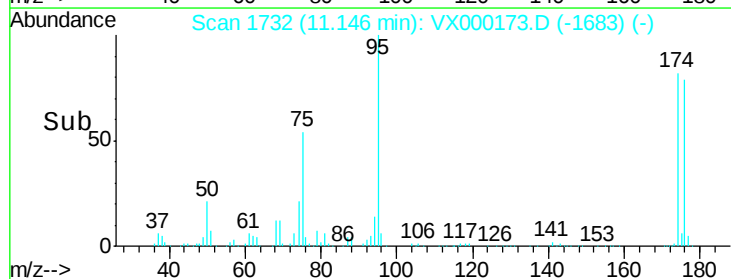
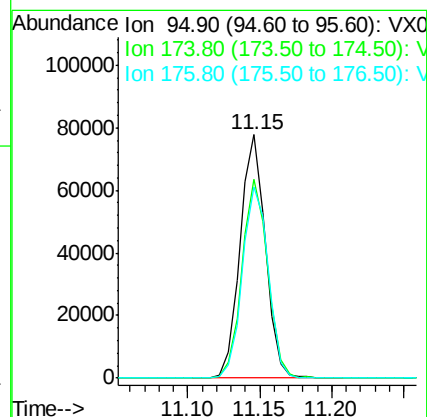
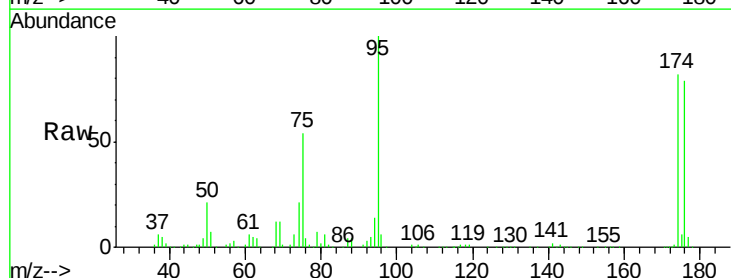
Tgt Ion: 95 Resp: 95467

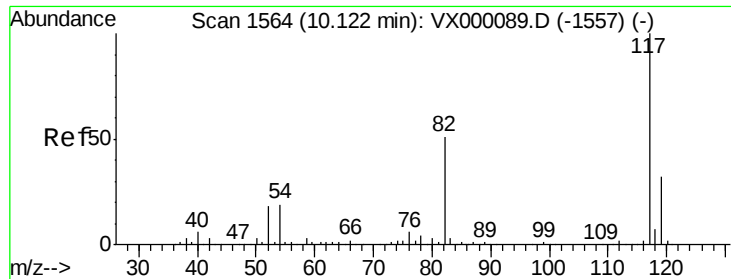
Ion Ratio Lower Upper

95 100

174 82.5 0.0 187.8

176 80.1 0.0 181.2

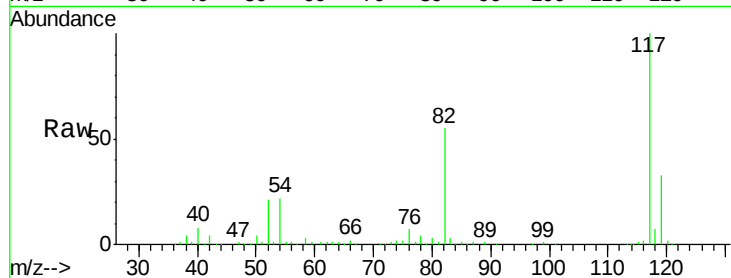




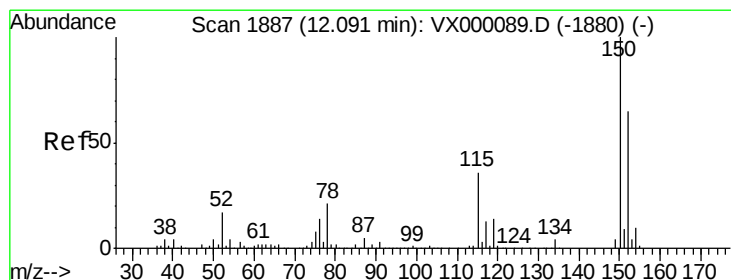
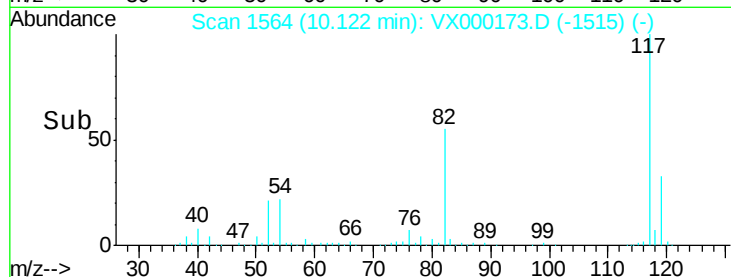
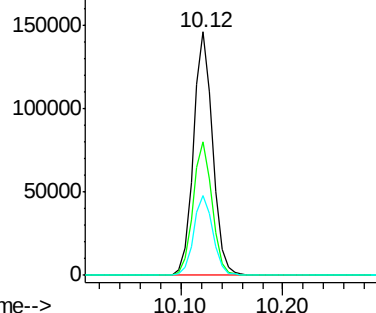
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000173.D
Acq: 28 Feb 2018 17:58

Instrument :
MSVOA_X
ClientSampleId :
RFK-RMAB-MW06-GW

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.6	41.0	61.6
119	32.7	25.5	38.3

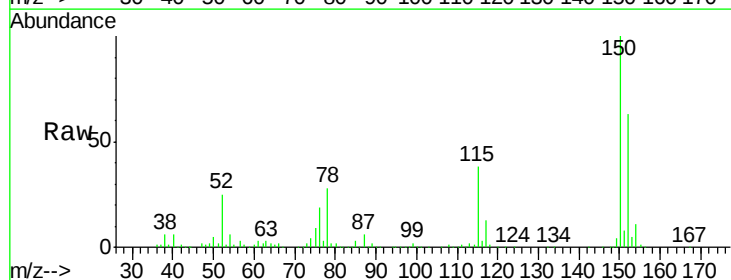


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

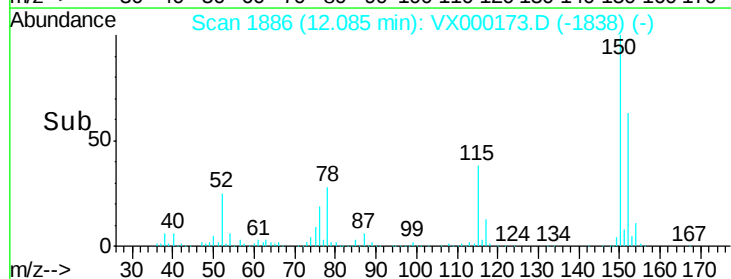
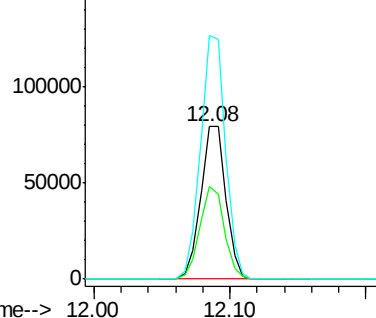


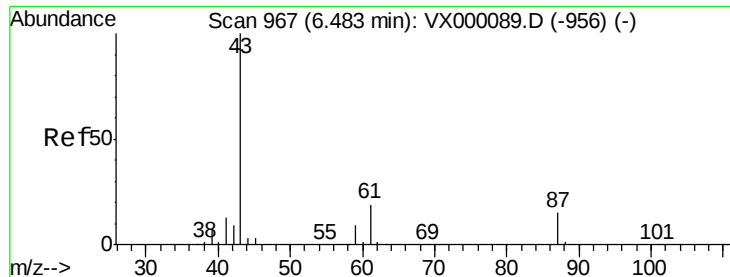
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.01 min
Lab File: VX000173.D
Acq: 28 Feb 2018 17:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.4	39.1	117.2
150	158.7	0.0	348.2



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





#74

N-ethyl acetate

Concen: 1.13 ug/l

RT: 6.36 min Scan# 947

Delta R.T. -0.12 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW06-GW

Tgt Ion: 43 Resp: 3698

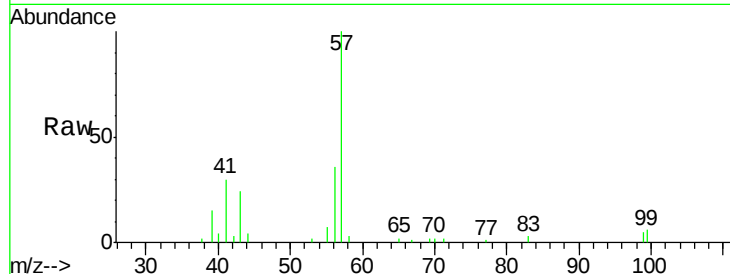
Ion Ratio Lower Upper

43 100

70 2.8 0.0 0.0#

55 22.9 0.1 0.1#

61 0.0 15.6 23.4#

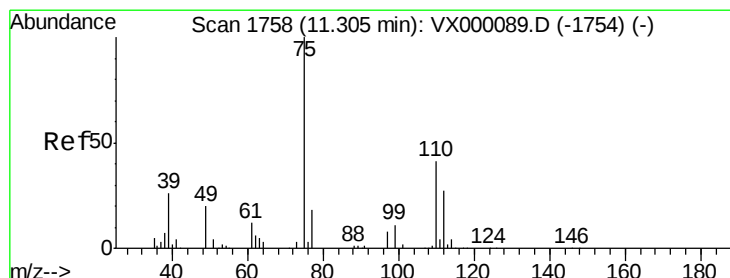
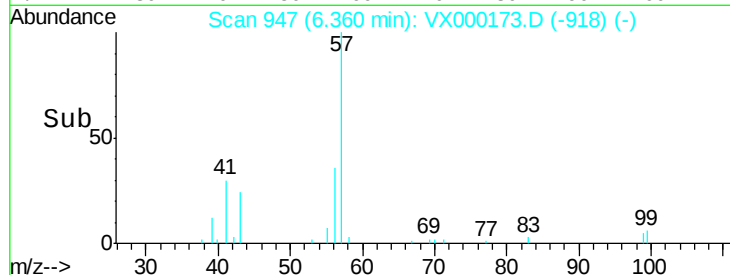
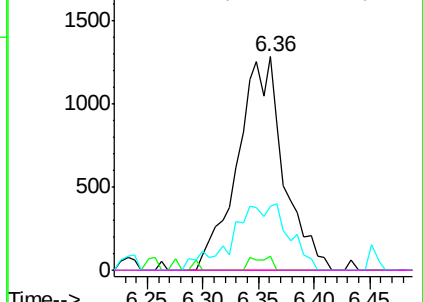


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 25.15 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000173.D

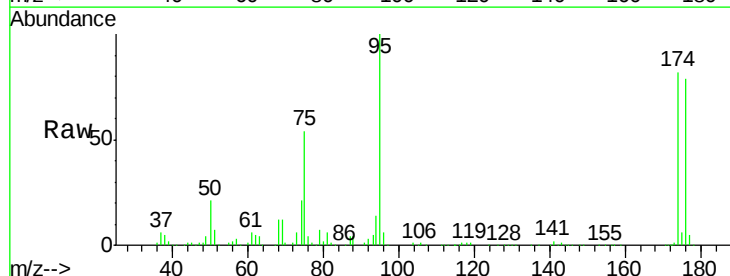
Acq: 28 Feb 2018 17:58

Tgt Ion: 75 Resp: 53050

Ion Ratio Lower Upper

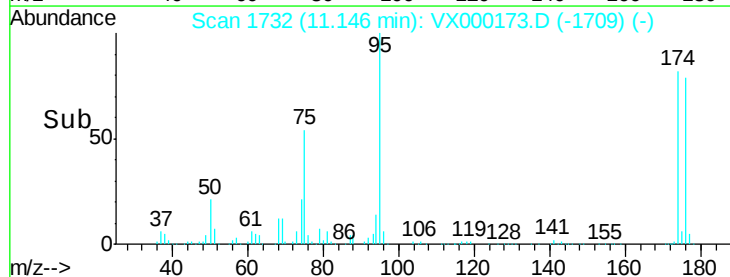
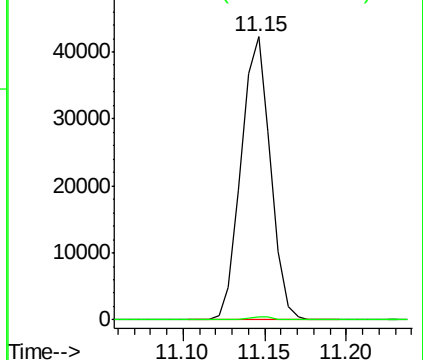
75 100

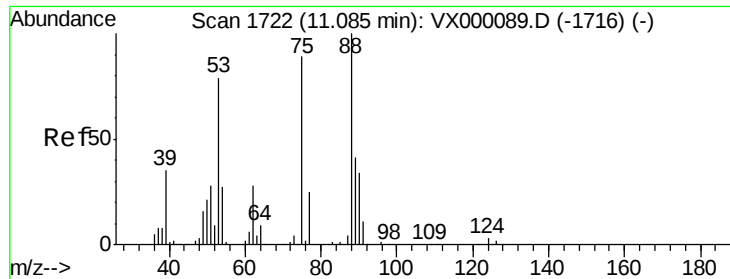
77 1.0 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.63 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW06-GW

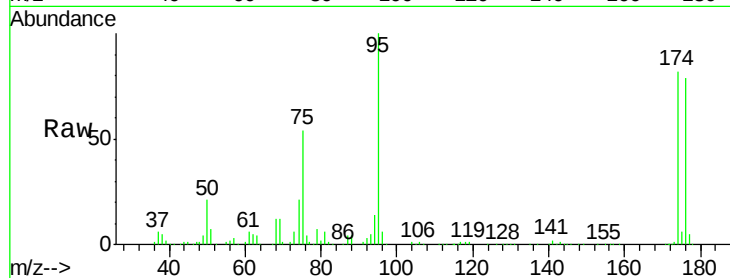
Tgt Ion: 75 Resp: 53050

Ion Ratio Lower Upper

75 100

53 0.0 72.3 108.5#

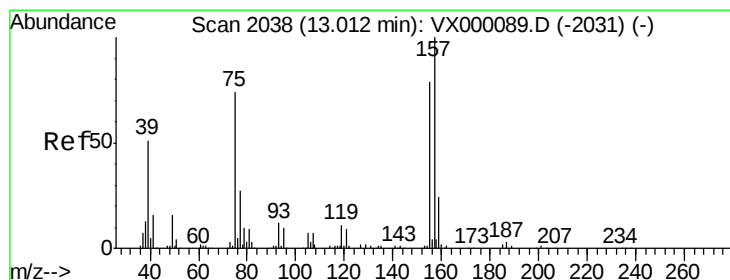
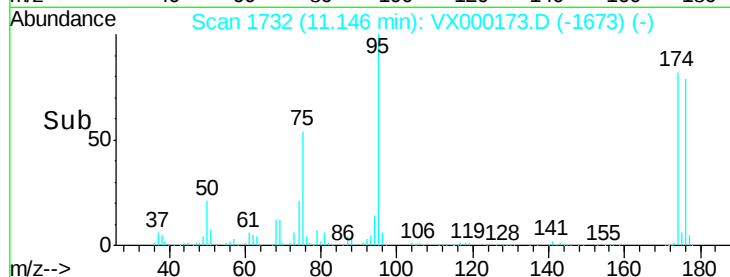
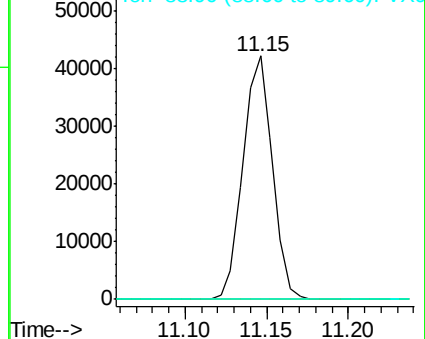
89 0.0 40.6 60.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.32 ug/l

RT: 12.83 min Scan# 2008

Delta R.T. -0.18 min

Lab File: VX000173.D

Acq: 28 Feb 2018 17:58

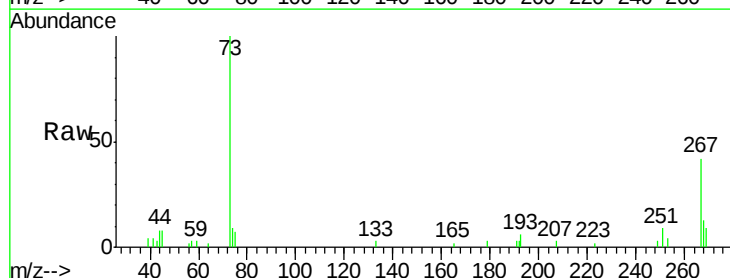
Tgt Ion: 75 Resp: 200

Ion Ratio Lower Upper

75 100

155 0.0 49.3 147.9#

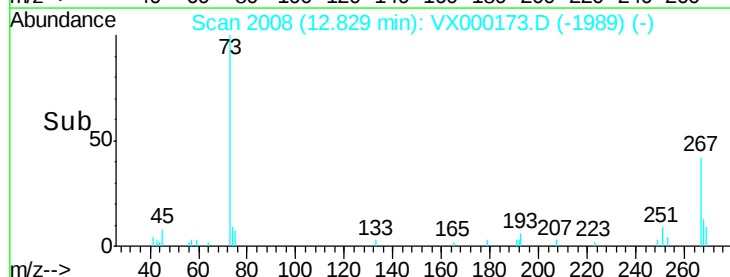
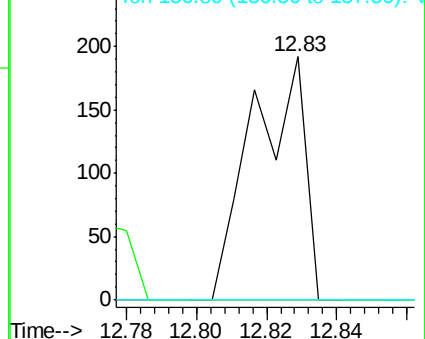
157 0.0 63.7 191.1#

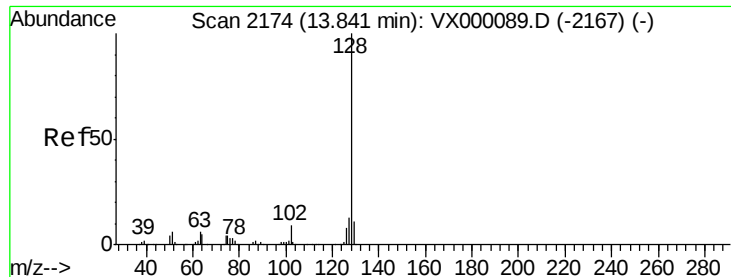


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 0.21 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000173.D

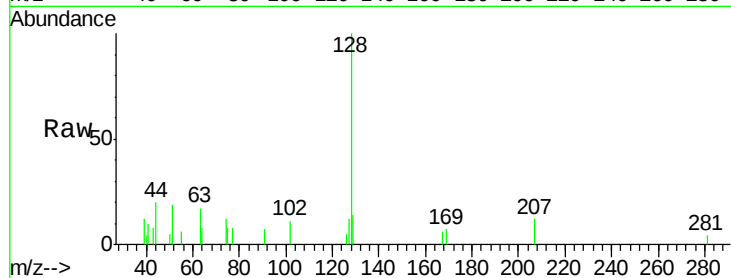
Acq: 28 Feb 2018 17:58

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW06-GW



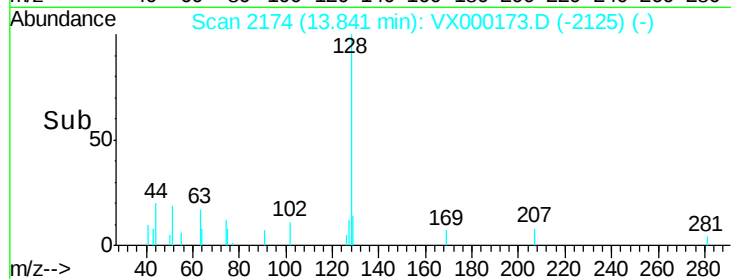
Tgt Ion:128 Resp: 1785

Ion Ratio Lower Upper

128 100

127 11.8 10.4 15.6

129 12.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

