

Data File : VX000170.D

Acq On : 28 Feb 2018 16:37

Operator : JC/MD

Sample : J1683-06

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW13-GW

Quant Time: Mar 01 06:33:13 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	85829	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	136699	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	127749	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	66845	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.09	65	54784	51.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.22%	
35) Dibromofluoromethane	5.52	113	40642	47.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.22%	
50) Toluene-d8	8.73	98	167218	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	11.15	95	60920	45.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.30%	

Target Compounds

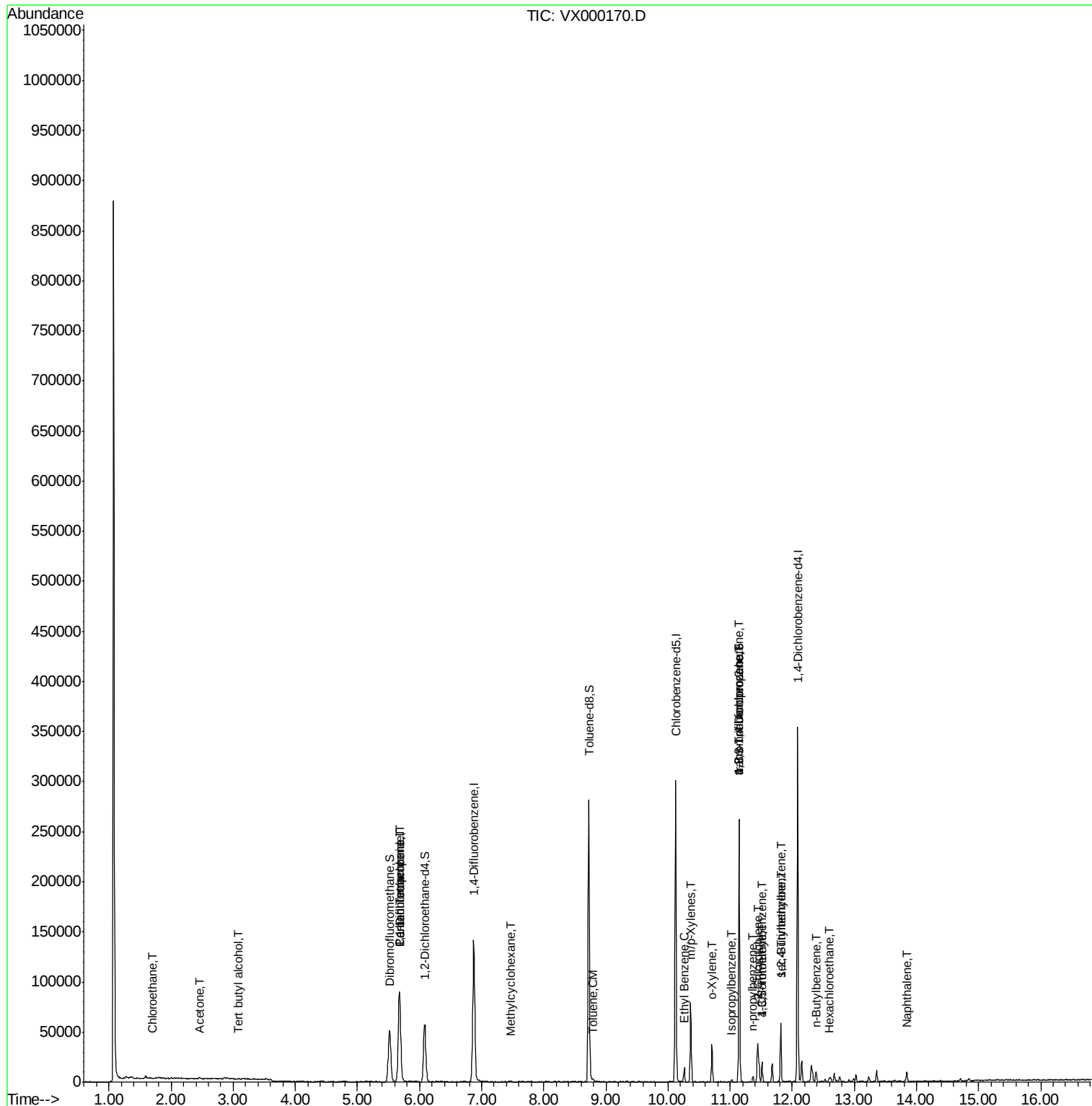
						Qvalue
5) Bromomethane	1.65	94	225	Below Cal	#	47
6) Chloroethane	1.71	64	282	0.43	ug/l #	42
11) Tert butyl alcohol	3.07	59	629	1.52	ug/l	97
16) Acetone	2.45	43	1148	1.65	ug/l #	65
20) Methylene Chloride	2.86	84	214	Below Cal		97
36) 1,1-Dichloropropene	5.67	75	7162	5.84	ug/l #	48
38) Carbon Tetrachloride	5.68	117	8576	6.47	ug/l #	16
39) Methylcyclohexane	7.48	83	441	0.30	ug/l #	70
41) Methacrylonitrile	5.12	41	68	Below Cal	#	30
52) Toluene	8.80	92	615	0.26	ug/l	96
67) Ethyl Benzene	10.26	91	8225	1.82	ug/l	92
68) m/p-Xylenes	10.37	106	16638	9.28	ug/l	92
69) o-Xylene	10.71	106	7812	4.52	ug/l	92
73) Isopropylbenzene	11.02	105	1198	0.28	ug/l	92
76) 1,2,3-Trichloropropane	11.15	75	33464	24.17	ug/l #	33
78) n-propylbenzene	11.37	91	3502	0.70	ug/l	96
79) 2-Chlorotoluene	11.44	91	3723	1.30	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.51	105	8303	2.32	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.15	75	33464	68.83	ug/l #	12
82) 4-Chlorotoluene	11.51	91	1077	0.31	ug/l #	41
84) 1,2,4-Trimethylbenzene	11.82	105	23824	6.41	ug/l	100
85) sec-Butylbenzene	11.82	105	23824	5.30	ug/l #	55
89) n-Butylbenzene	12.39	91	1461	0.39	ug/l #	29
90) Hexachloroethane	12.60	117	424	0.65	ug/l #	8
95) Naphthalene	13.84	128	5695	1.03	ug/l	97

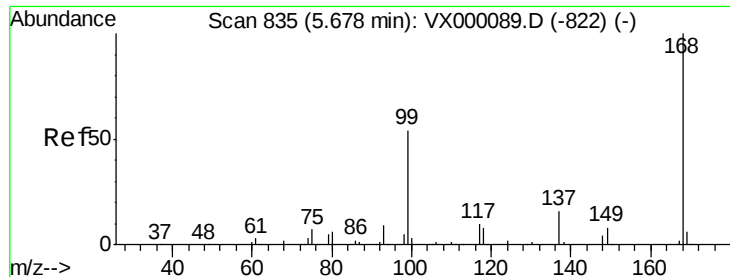
(#)=qualifier out of range (m)=manual integration (+)=signals summed

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Instrument :
MSVOA_X
ClientSampleId :
RFK-RMAB-MW13-GW

Quant Time: Mar 01 06:33:13 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: VX000170.D

Acq: 28 Feb 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

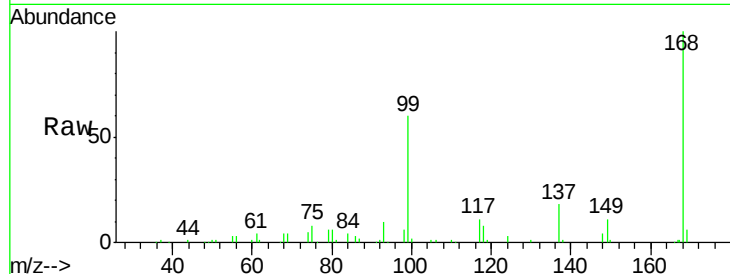
RFK-RMAB-MW13-GW

Tgt Ion: 168 Resp: 85829

Ion Ratio Lower Upper

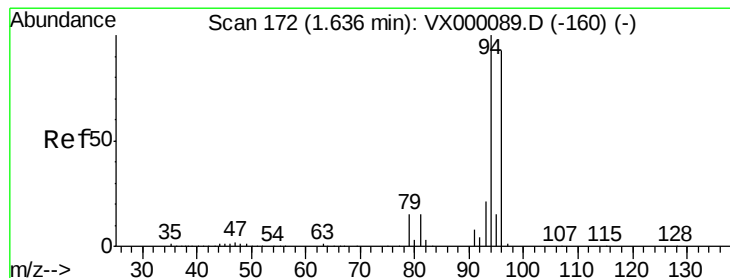
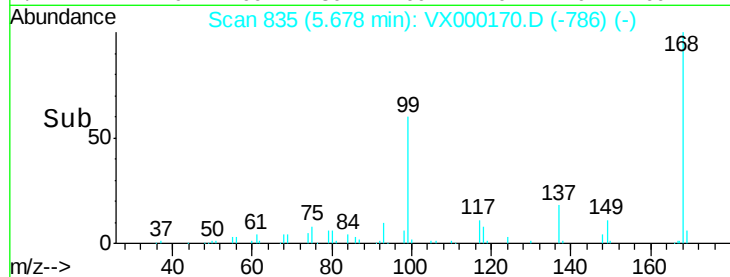
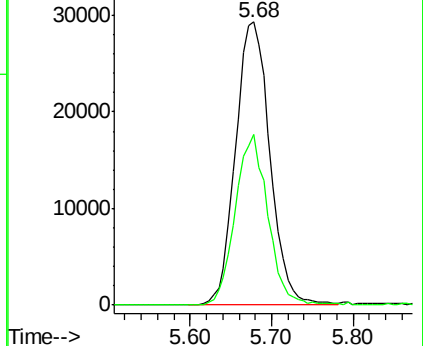
168 100

99 60.2 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX000170.D

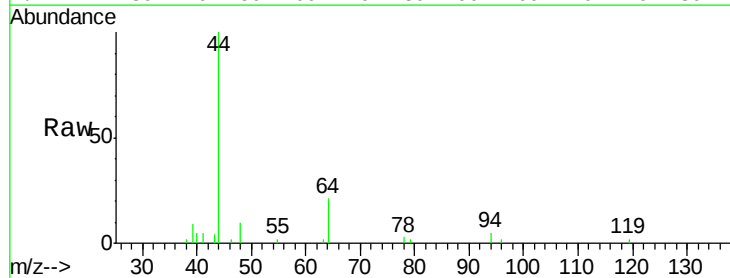
Acq: 28 Feb 2018 16:37

Tgt Ion: 94 Resp: 225

Ion Ratio Lower Upper

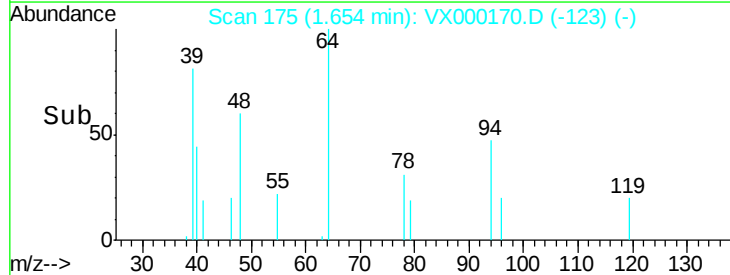
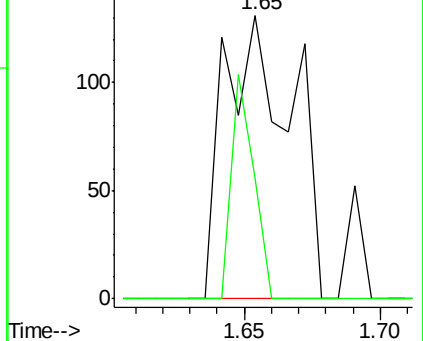
94 100

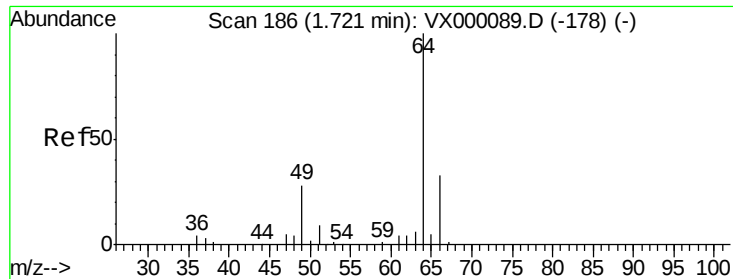
96 42.7 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.43 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

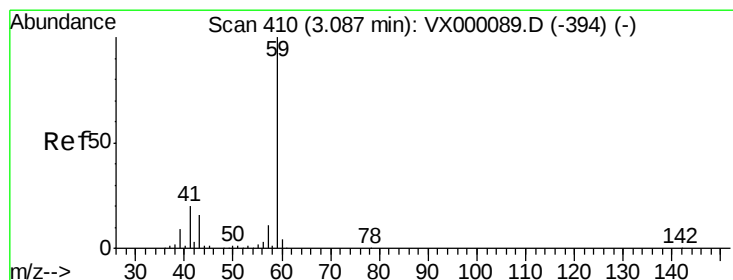
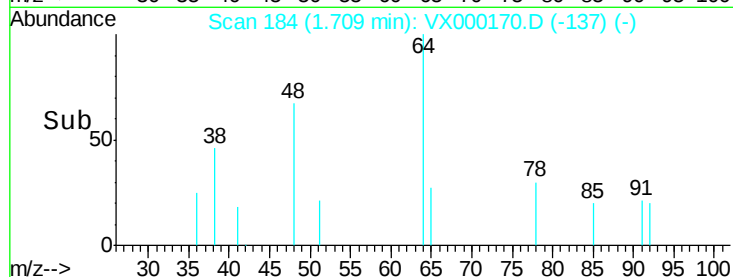
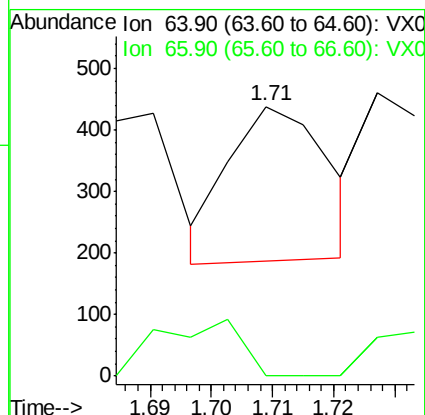
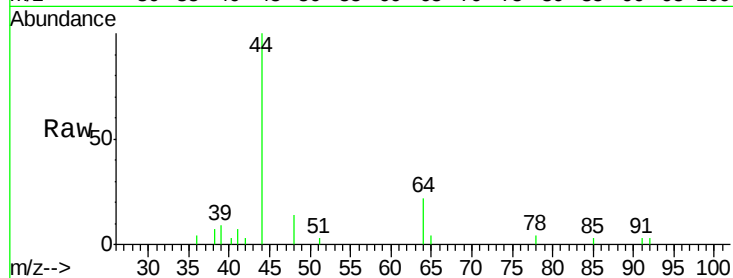
RFK-RMAB-MW13-GW

Tgt Ion: 64 Resp: 282

Ion Ratio Lower Upper

64 100

66 0.0 26.0 39.0#



#11

Tert butyl alcohol

Concen: 1.52 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX000170.D

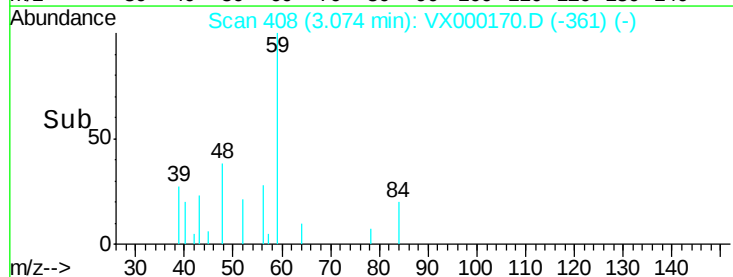
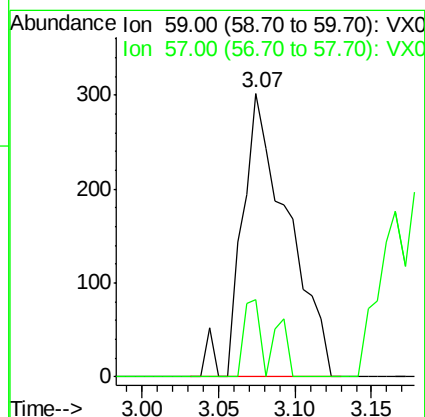
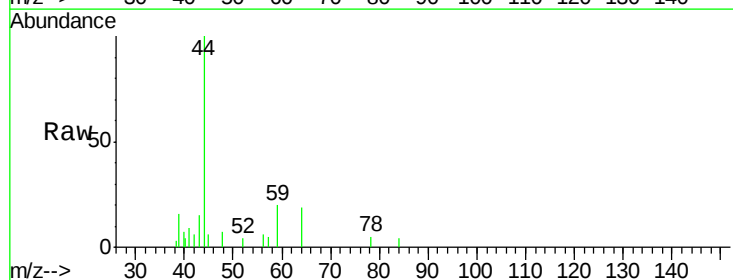
Acq: 28 Feb 2018 16:37

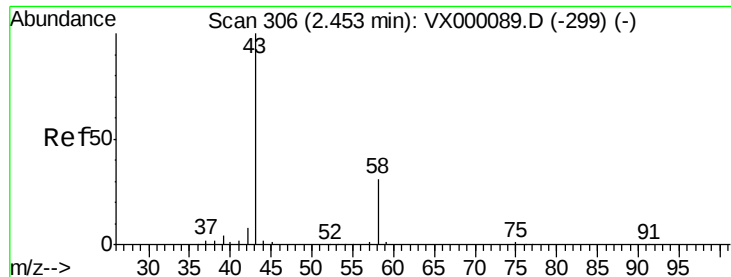
Tgt Ion: 59 Resp: 629

Ion Ratio Lower Upper

59 100

57 9.4 8.3 12.5





#16

Acetone

Concen: 1.65 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

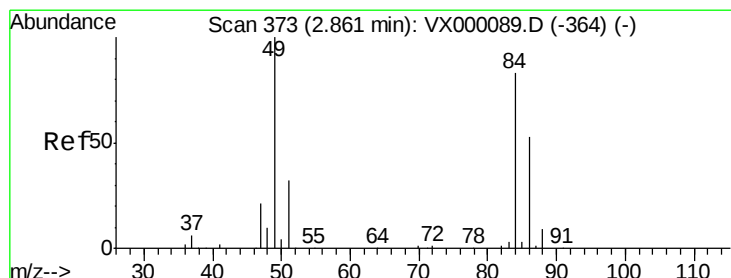
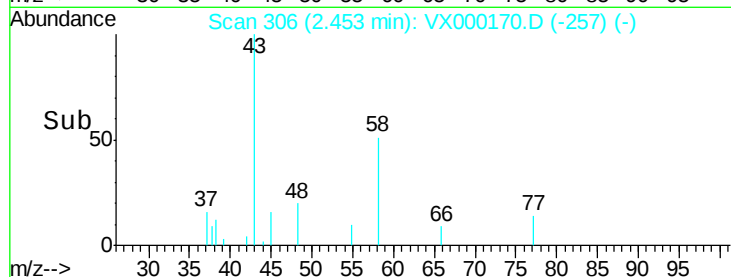
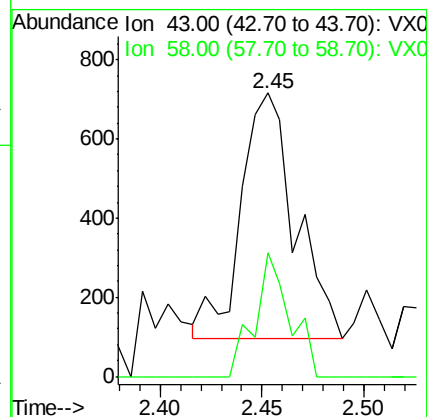
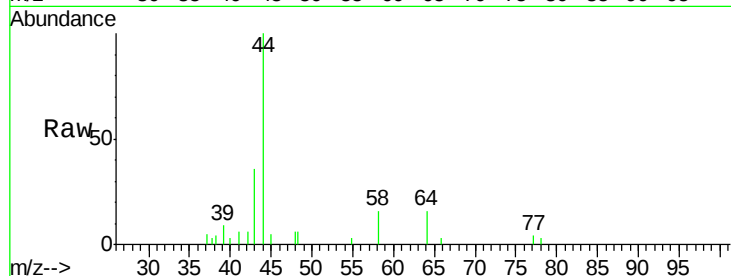
RFK-RMAB-MW13-GW

Tgt Ion: 43 Resp: 1148

Ion Ratio Lower Upper

43 100

58 50.5 25.0 37.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

Tgt Ion: 84 Resp: 214

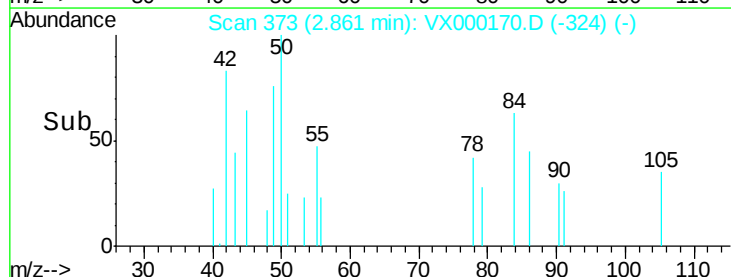
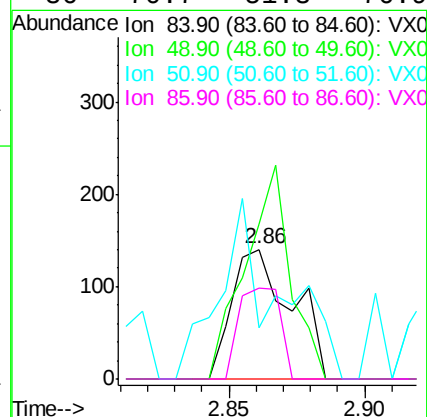
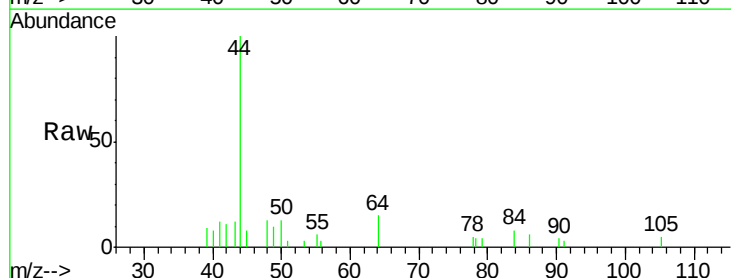
Ion Ratio Lower Upper

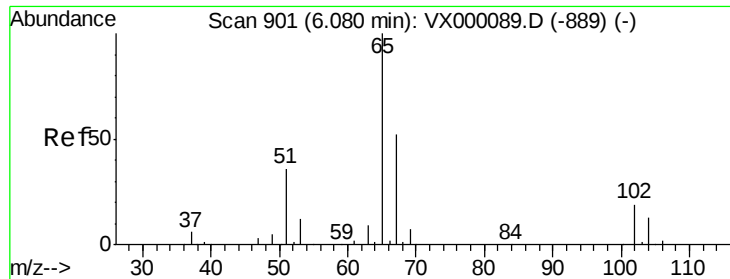
84 100

49 120.0 96.1 144.1

51 40.0 30.5 45.7

86 70.7 51.3 76.9

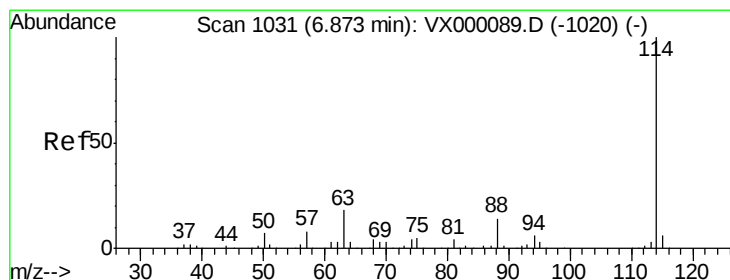
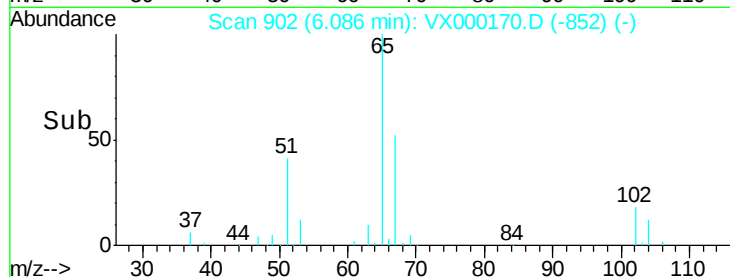
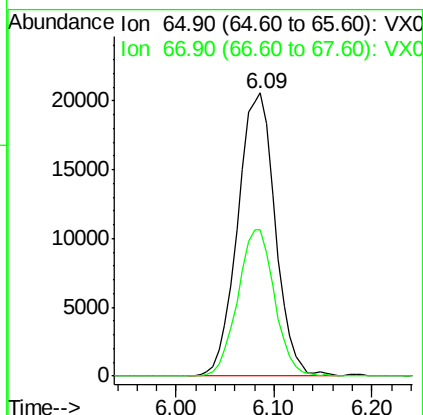
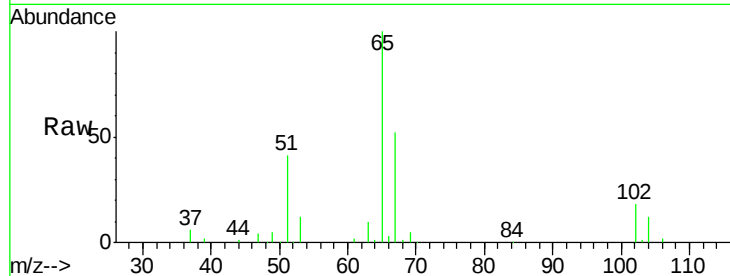




#33
 1,2-Dichloroethane-d4
 Concen: 51.11 ug/l
 RT: 6.09 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: VX000170.D
 Acq: 28 Feb 2018 16:37

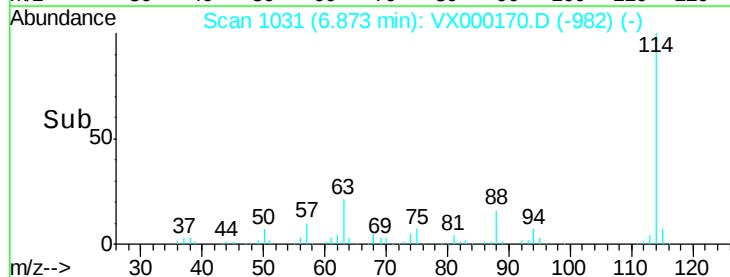
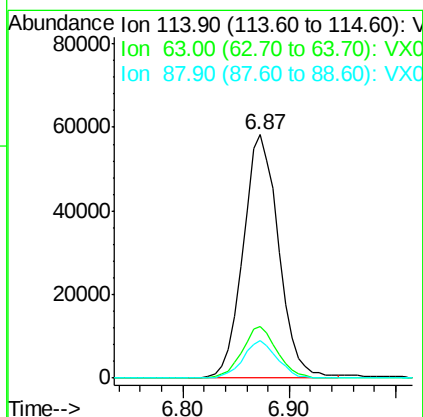
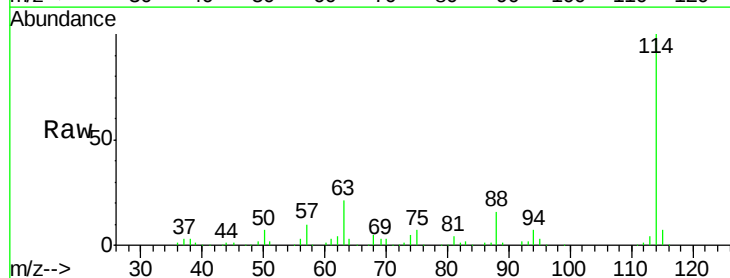
Instrument :
 MSVOA_X
 ClientSampleId :
 RFK-RMAB-MW13-GW

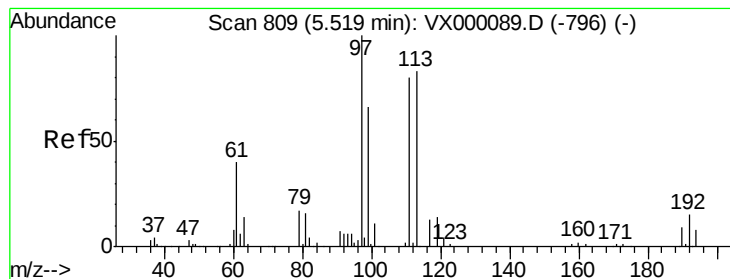
Tgt Ion: 65 Resp: 54784
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000170.D
 Acq: 28 Feb 2018 16:37

Tgt Ion: 114 Resp: 136699
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 36.4
 88 15.6 0.0 29.0





#35

Dibromofluoromethane

Concen: 47.11 ug/l

RT: 5.52 min Scan# 809

Delta R.T. -0.00 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW13-GW

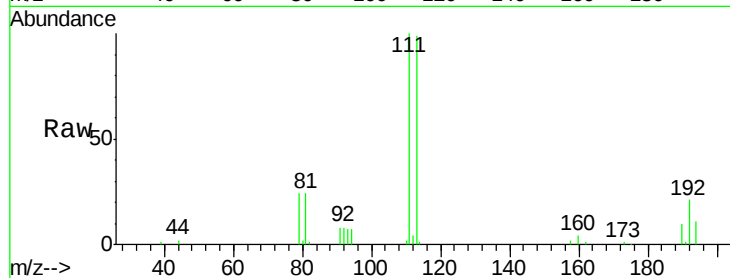
Tgt Ion:113 Resp: 40642

Ion Ratio Lower Upper

113 100

111 104.1 81.0 121.6

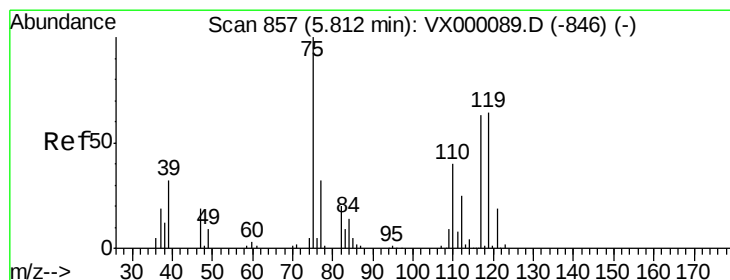
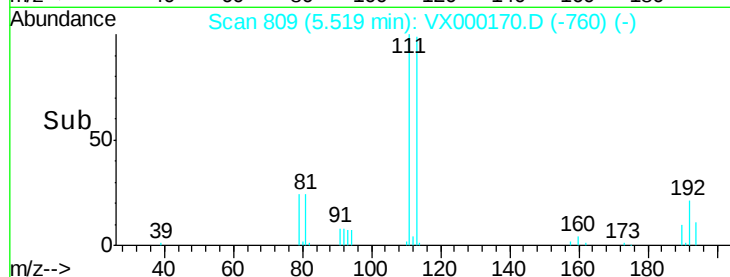
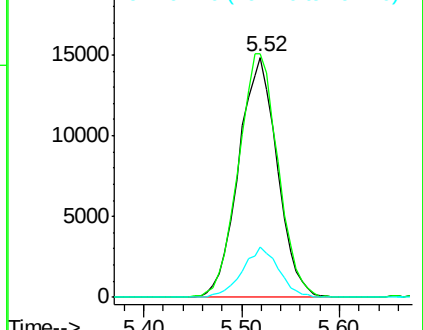
192 19.7 15.7 23.5



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: 5.84 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

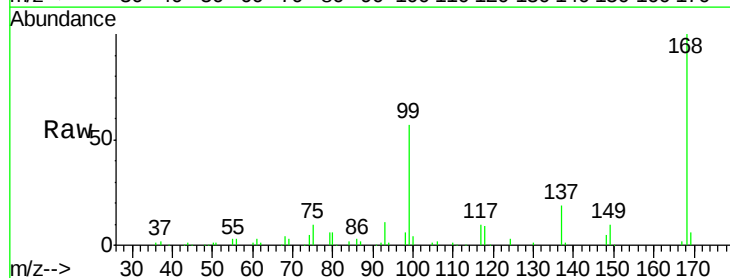
Tgt Ion: 75 Resp: 7162

Ion Ratio Lower Upper

75 100

110 9.5 19.5 58.5#

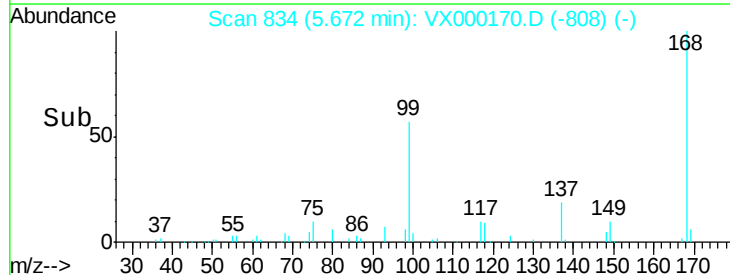
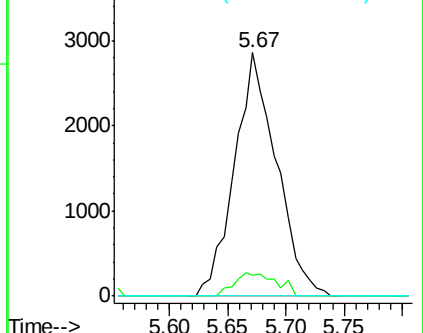
77 0.0 24.7 37.1#

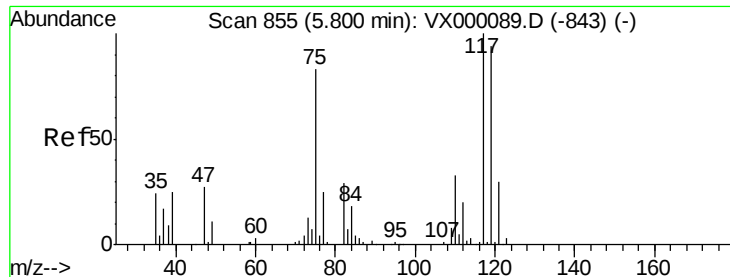


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

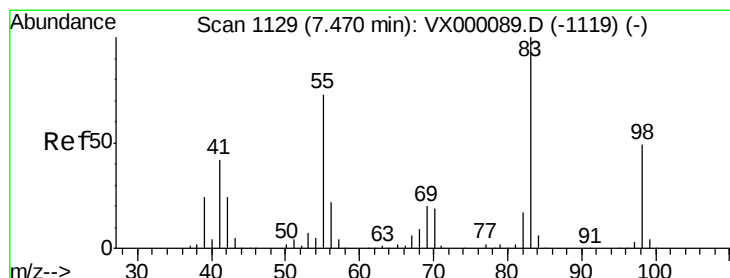
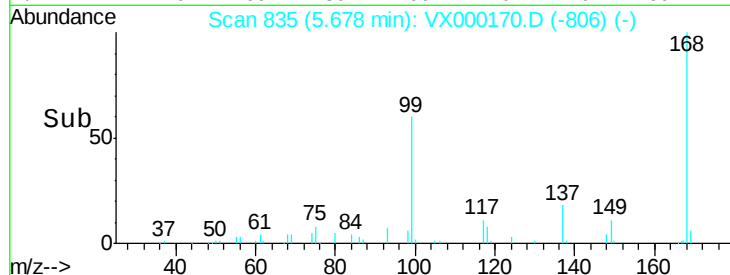
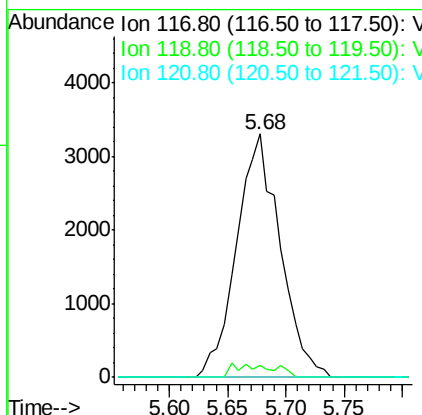
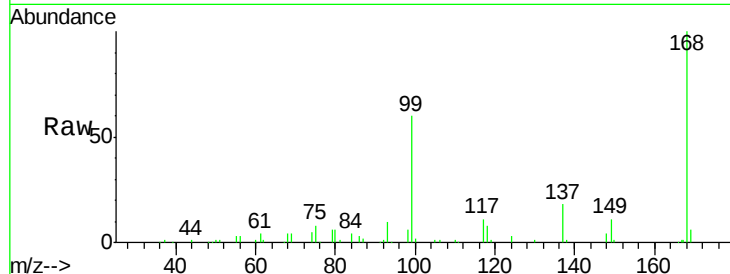




#38
Carbon Tetrachloride
Concen: 6.47 ug/l
RT: 5.68 min Scan# 835
Delta R.T. -0.12 min
Lab File: VX000170.D
Acq: 28 Feb 2018 16:37

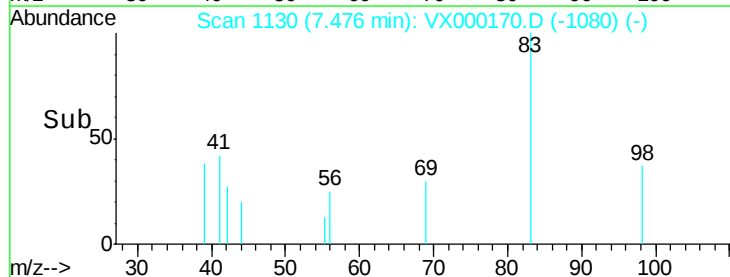
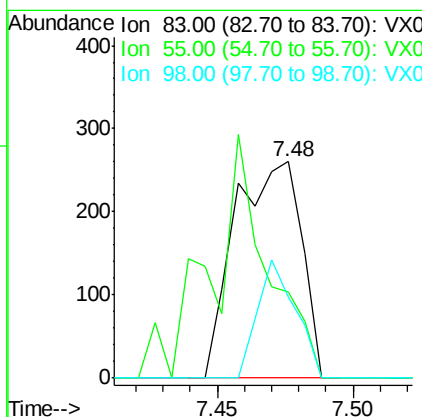
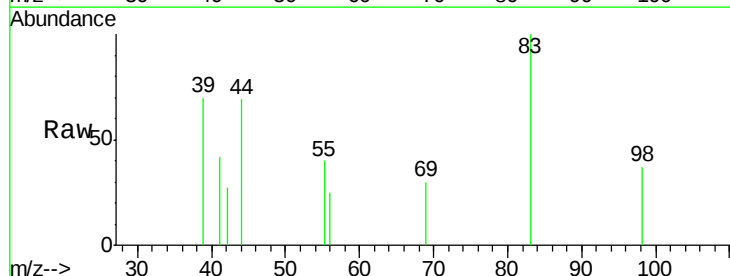
Instrument :
MSVOA_X
ClientSampleId :
RFK-RMAB-MW13-GW

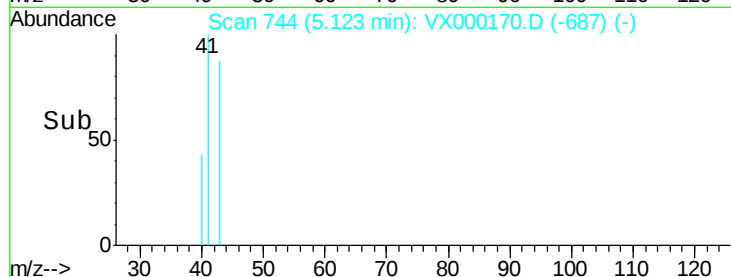
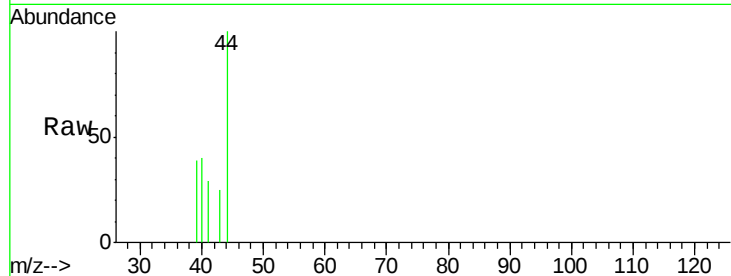
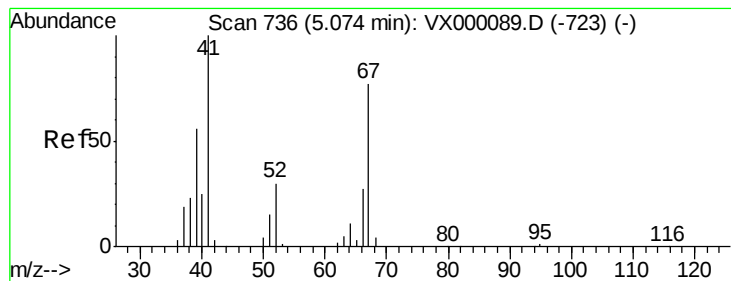
Tgt Ion: 117 Resp: 8576
Ion Ratio Lower Upper
117 100
119 4.7 75.3 112.9#
121 0.0 23.7 35.5#



#39
Methylcyclohexane
Concen: 0.30 ug/l
RT: 7.48 min Scan# 1130
Delta R.T. 0.01 min
Lab File: VX000170.D
Acq: 28 Feb 2018 16:37

Tgt Ion: 83 Resp: 441
Ion Ratio Lower Upper
83 100
55 40.0 58.2 87.2#
98 37.3 39.0 58.6#





#41

Methacrylonitrile

Concen: Below Cal

RT: 5.12 min Scan# 744

Delta R.T. 0.05 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW13-GW

Tgt Ion: 41 Resp: 68

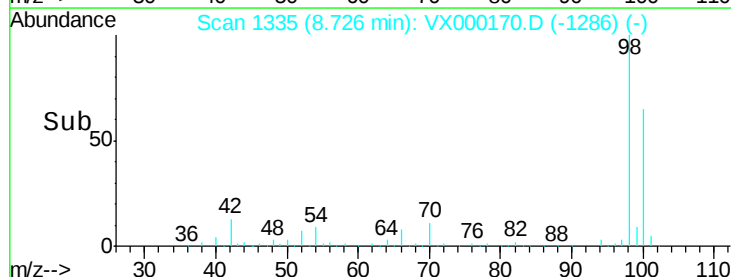
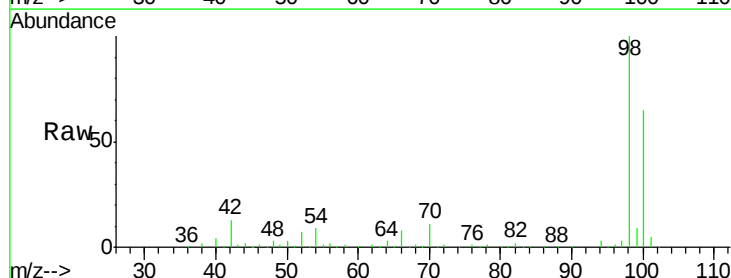
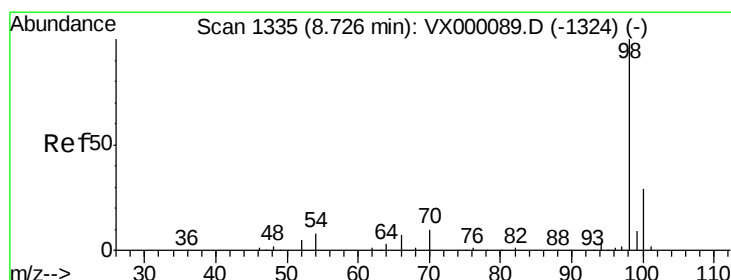
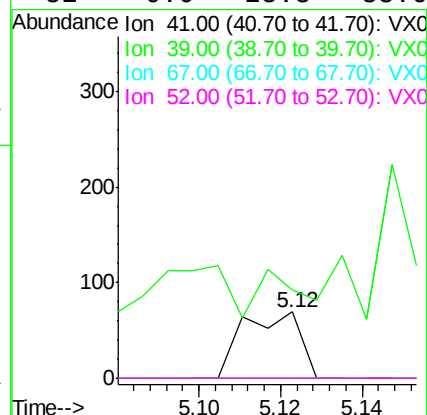
Ion Ratio Lower Upper

41 100

39 94.1 45.1 67.7#

67 0.0 61.0 91.4#

52 0.0 25.8 38.6#



#50

Toluene-d8

Concen: 49.13 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000170.D

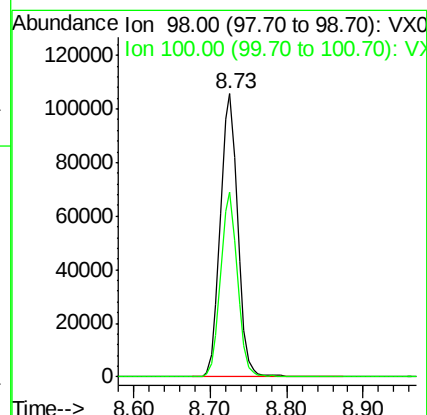
Acq: 28 Feb 2018 16:37

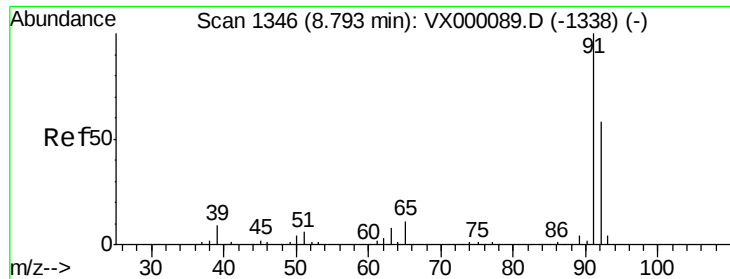
Tgt Ion: 98 Resp: 167218

Ion Ratio Lower Upper

98 100

100 62.8 52.2 78.2





#52

Toluene

Concen: 0.26 ug/l

RT: 8.80 min Scan# 1347

Delta R.T. 0.01 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

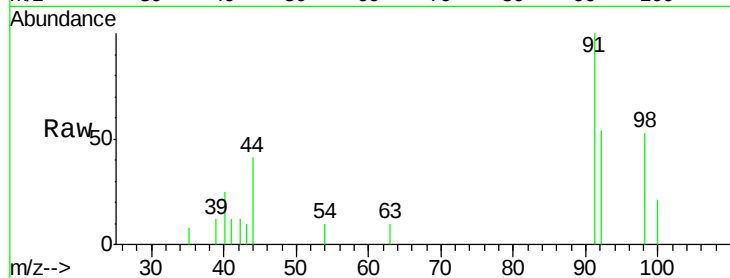
RFK-RMAB-MW13-GW

Tgt Ion: 92 Resp: 615

Ion Ratio Lower Upper

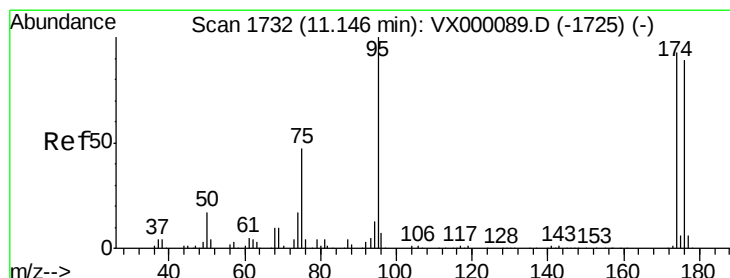
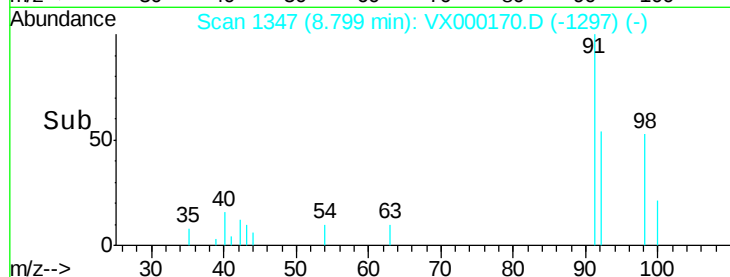
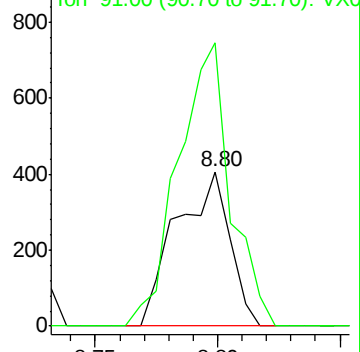
92 100

91 180.0 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.65 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

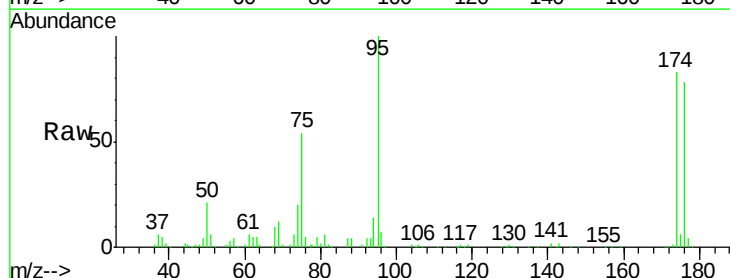
Tgt Ion: 95 Resp: 60920

Ion Ratio Lower Upper

95 100

174 82.4 0.0 187.8

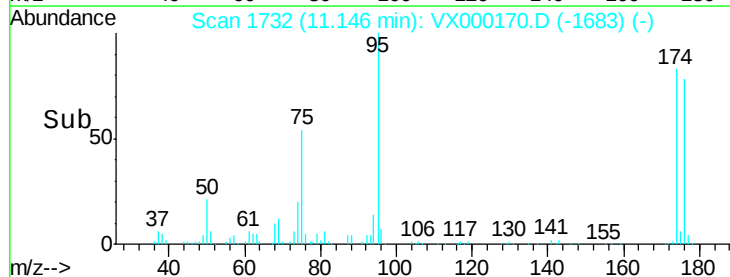
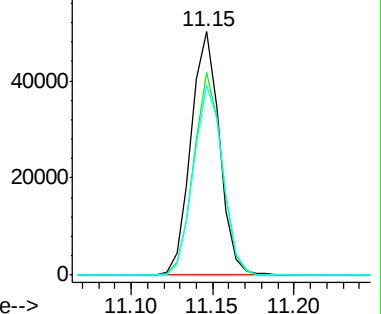
176 80.8 0.0 181.2

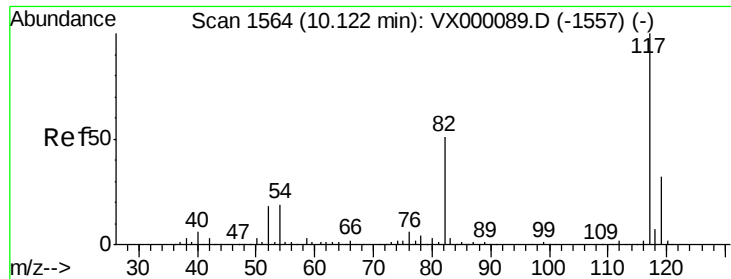


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

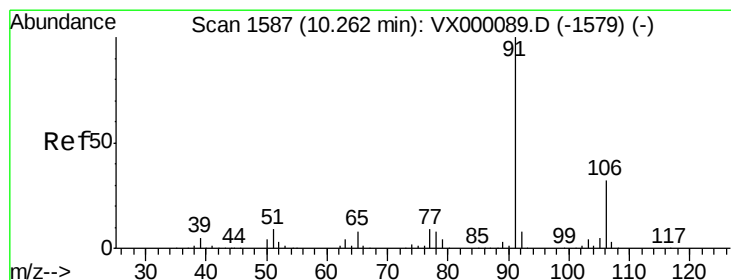
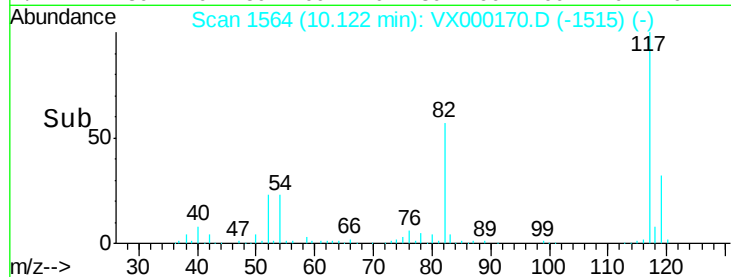
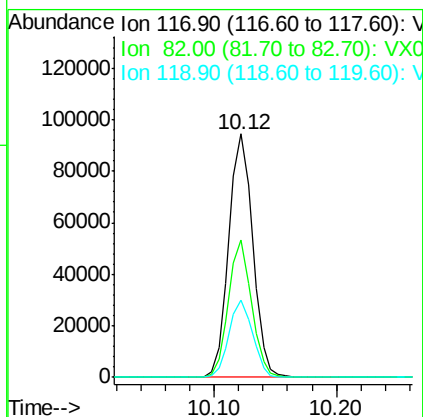
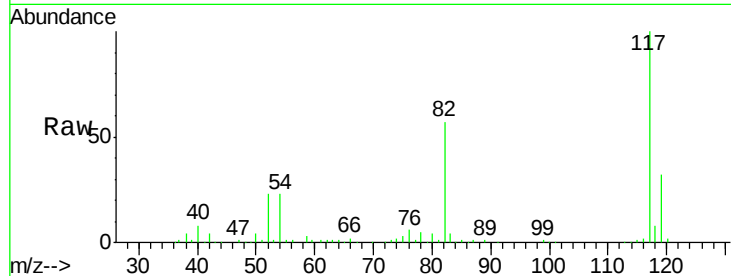




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000170.D
Acq: 28 Feb 2018 16:37

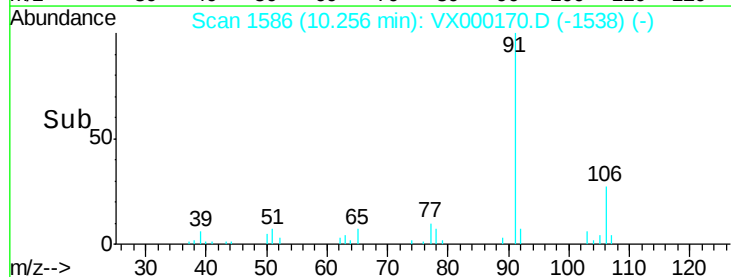
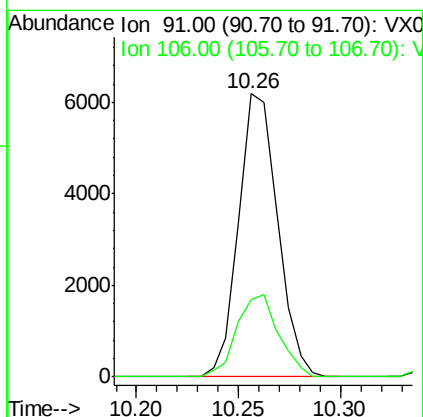
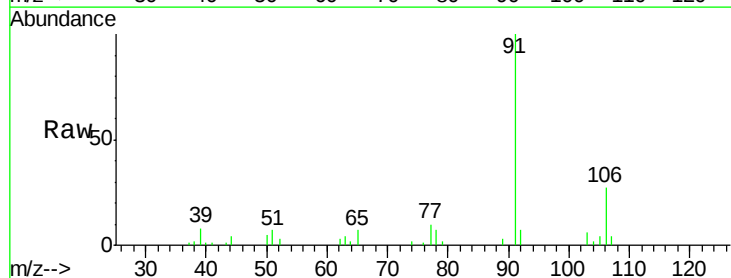
Instrument :
MSVOA_X
ClientSampleId :
RFK-RMAB-MW13-GW

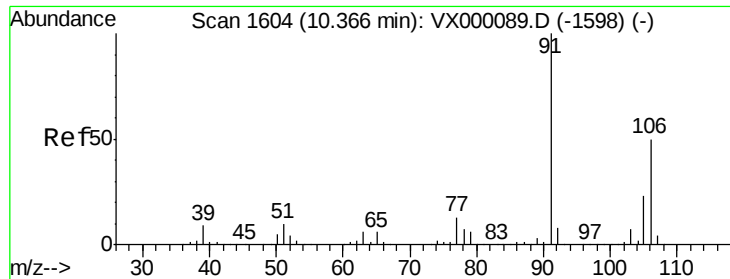
Tgt Ion: 117 Resp: 127749
Ion Ratio Lower Upper
117 100
82 56.7 41.0 61.6
119 31.8 25.5 38.3



#67
Ethyl Benzene
Concen: 1.82 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. -0.01 min
Lab File: VX000170.D
Acq: 28 Feb 2018 16:37

Tgt Ion: 91 Resp: 8225
Ion Ratio Lower Upper
91 100
106 27.5 25.8 38.6

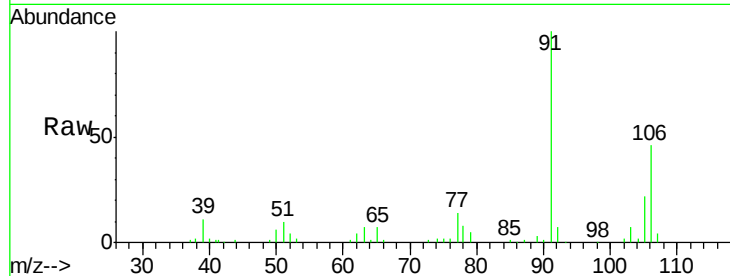




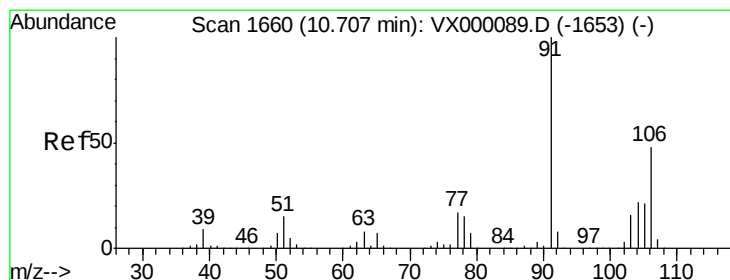
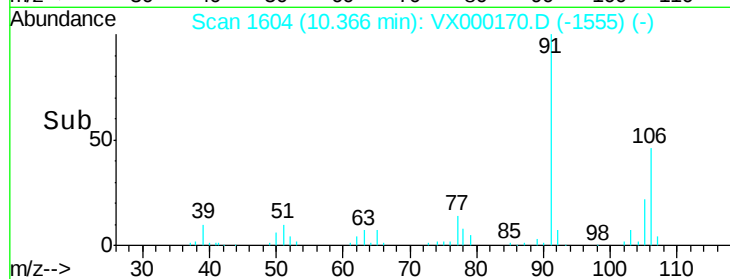
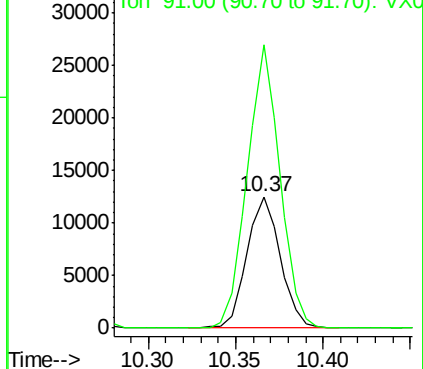
#68
m/p-Xylenes
Concen: 9.28 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VX000170.D
Acq: 28 Feb 2018 16:37

Instrument :
MSVOA_X
ClientSampleId :
RFK-RMAB-MW13-GW

Tgt Ion:106 Resp: 16638
Ion Ratio Lower Upper
106 100
91 211.0 159.1 238.7

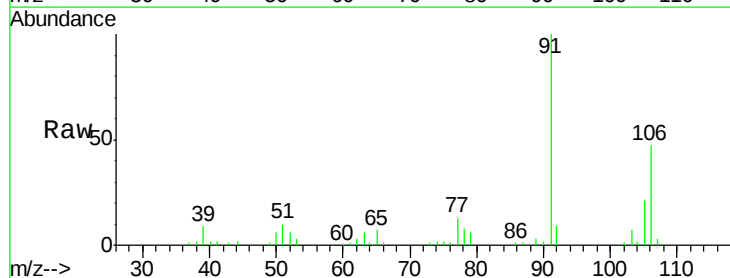


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

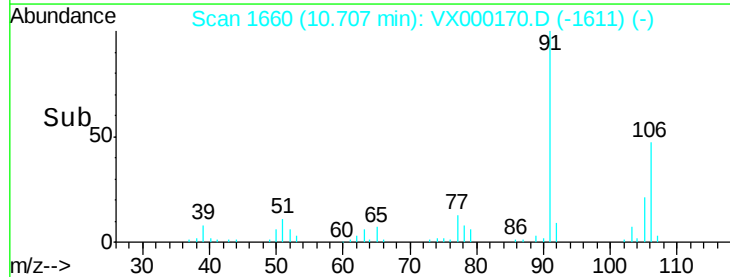
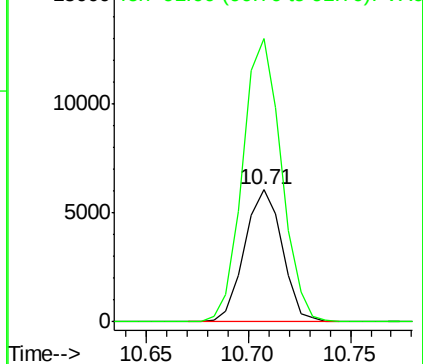


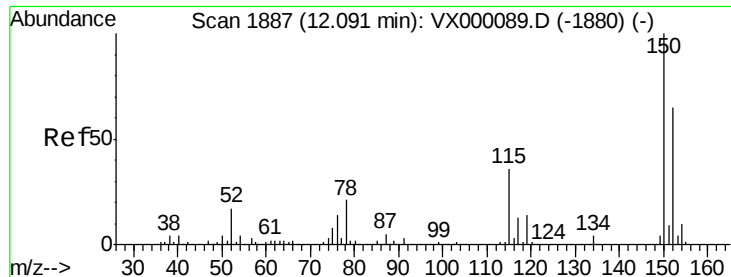
#69
o-Xylene
Concen: 4.52 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VX000170.D
Acq: 28 Feb 2018 16:37

Tgt Ion:106 Resp: 7812
Ion Ratio Lower Upper
106 100
91 220.2 103.8 311.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.01 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW13-GW

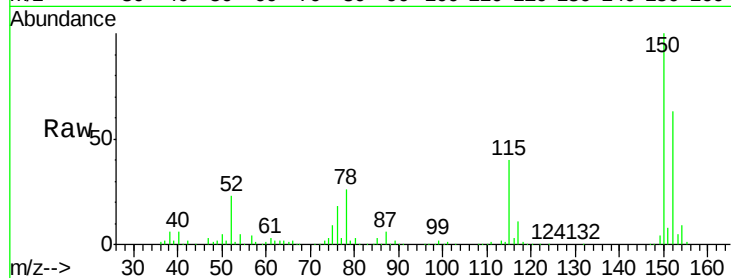
Tgt Ion:152 Resp: 66845

Ion Ratio Lower Upper

152 100

115 59.8 39.1 117.2

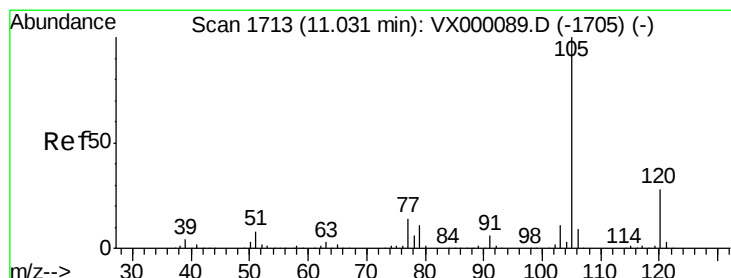
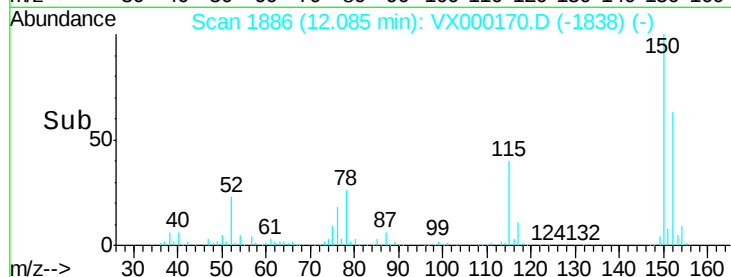
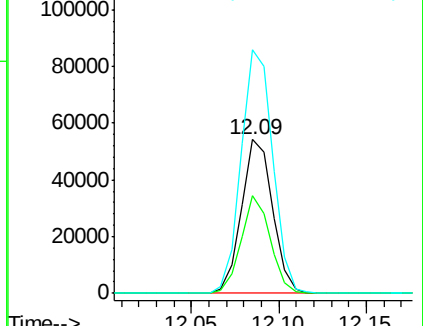
150 162.0 0.0 348.2



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



#73

Isopropylbenzene

Concen: 0.28 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. -0.01 min

Lab File: VX000170.D

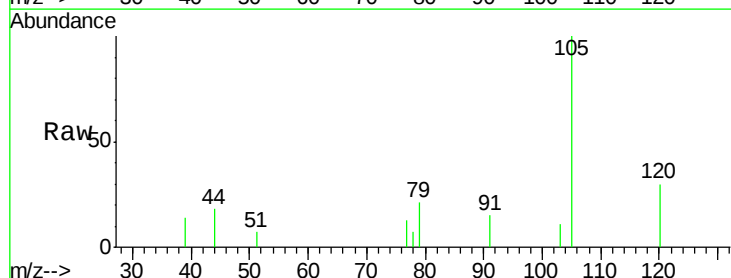
Acq: 28 Feb 2018 16:37

Tgt Ion:105 Resp: 1198

Ion Ratio Lower Upper

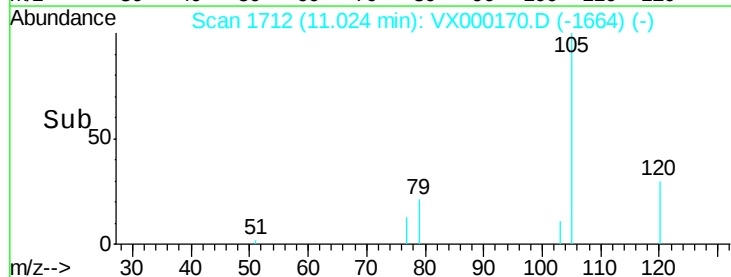
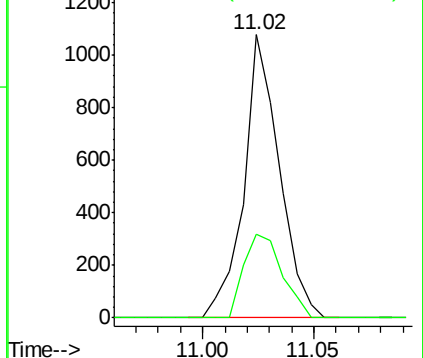
105 100

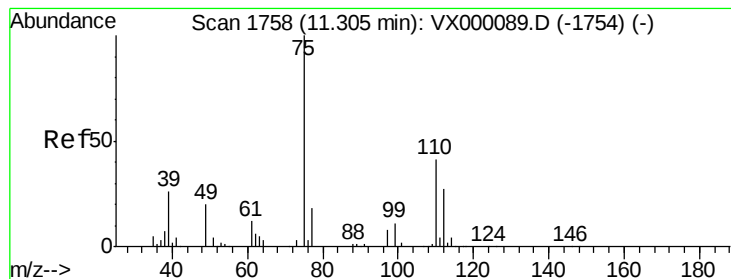
120 32.1 14.0 42.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 24.17 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

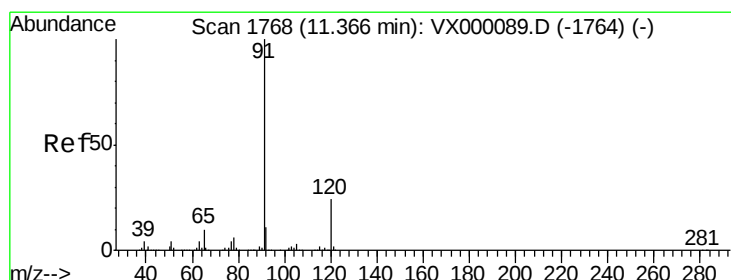
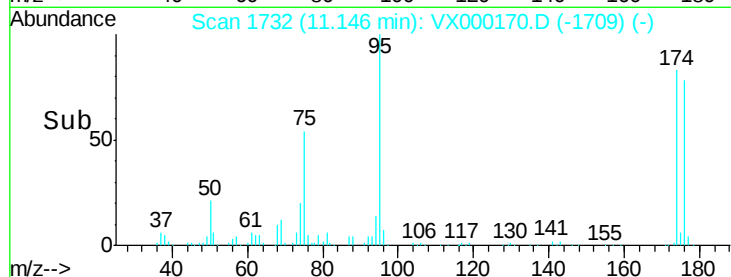
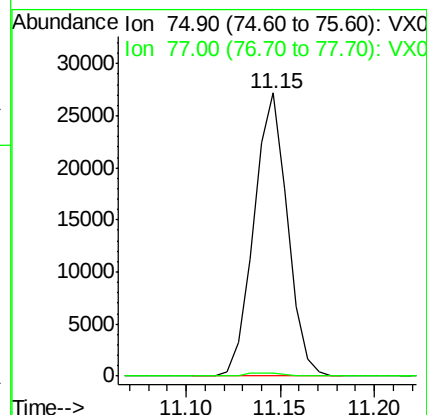
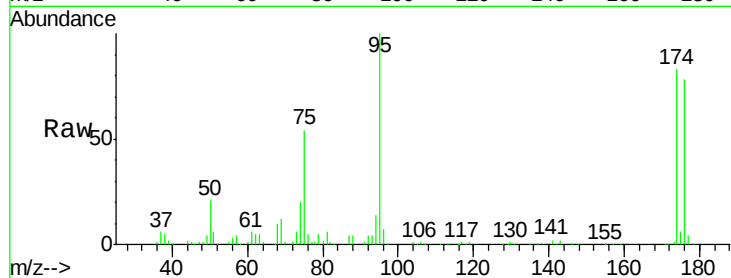
RFK-RMAB-MW13-GW

Tgt Ion: 75 Resp: 33464

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#78

n-propylbenzene

Concen: 0.70 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VX000170.D

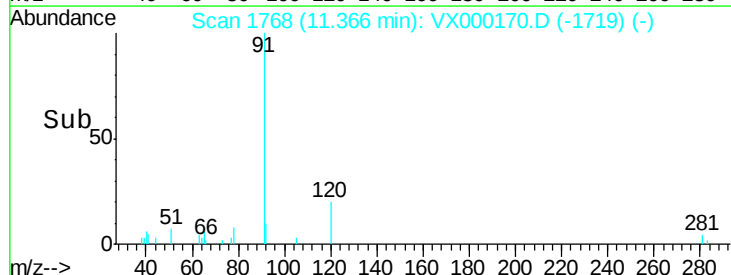
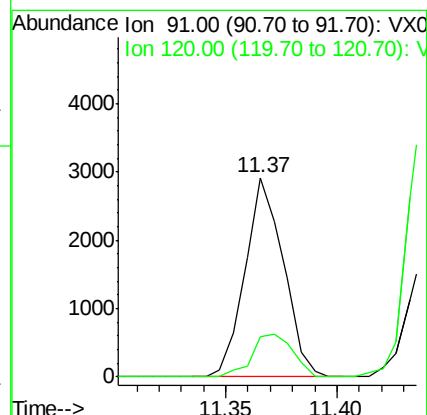
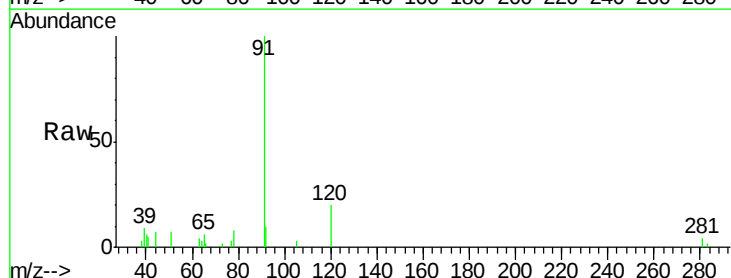
Acq: 28 Feb 2018 16:37

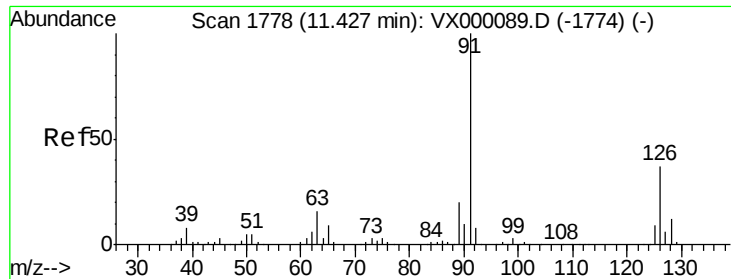
Tgt Ion: 91 Resp: 3502

Ion Ratio Lower Upper

91 100

120 22.8 12.3 36.9

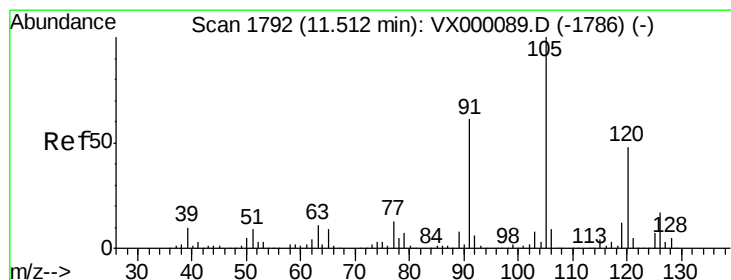
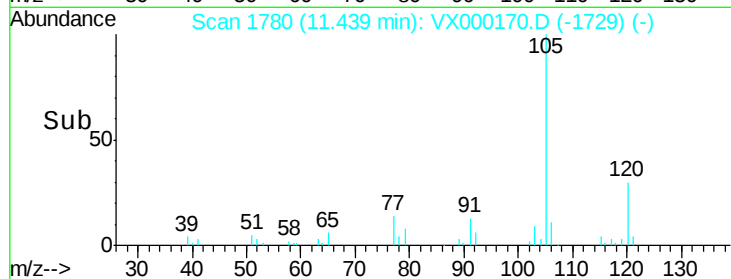
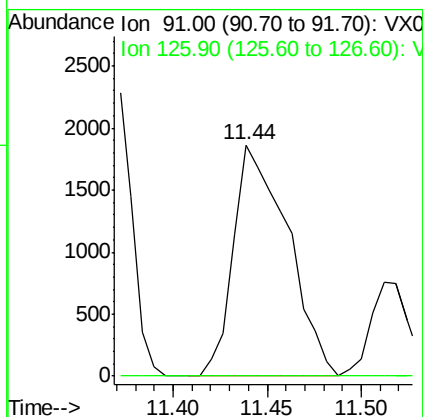
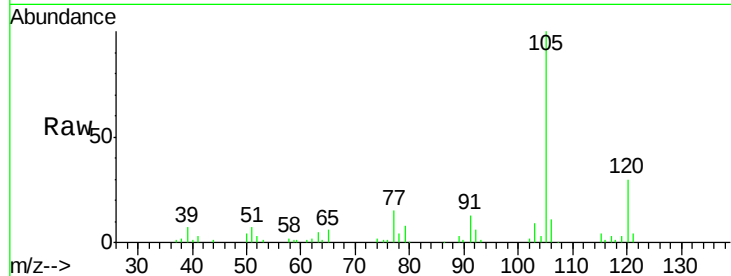




#79
 2-Chlorotoluene
 Concen: 1.30 ug/l
 RT: 11.44 min Scan# 1780
 Delta R.T. 0.01 min
 Lab File: VX000170.D
 Acq: 28 Feb 2018 16:37

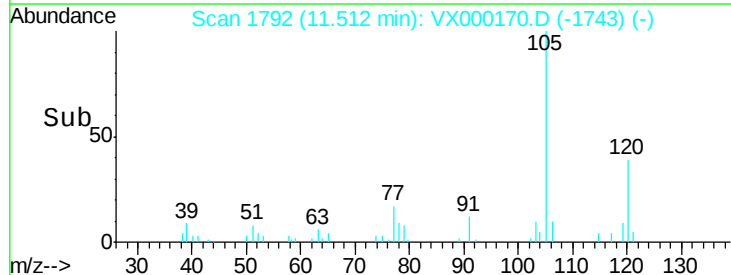
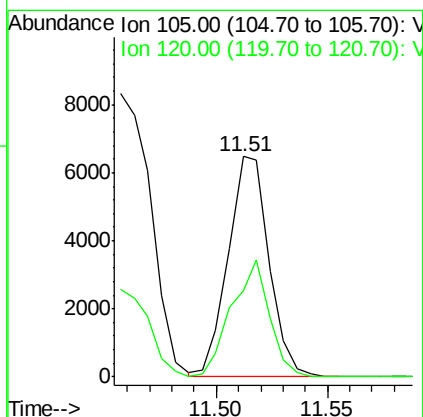
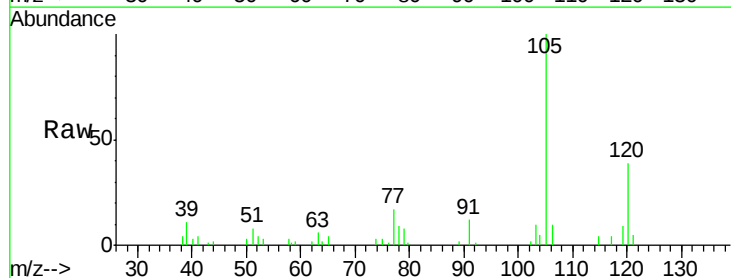
Instrument :
 MSVOA_X
 ClientSampleId :
 RFK-RMAB-MW13-GW

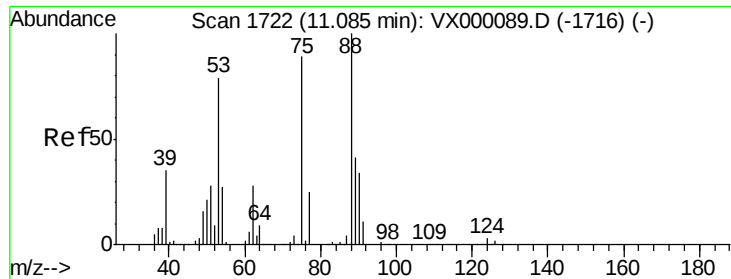
Tgt Ion: 91 Resp: 3723
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.4 55.2#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.32 ug/l
 RT: 11.51 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX000170.D
 Acq: 28 Feb 2018 16:37

Tgt Ion: 105 Resp: 8303
 Ion Ratio Lower Upper
 105 100
 120 49.0 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 68.83 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000170.D

Acq: 28 Feb 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW13-GW

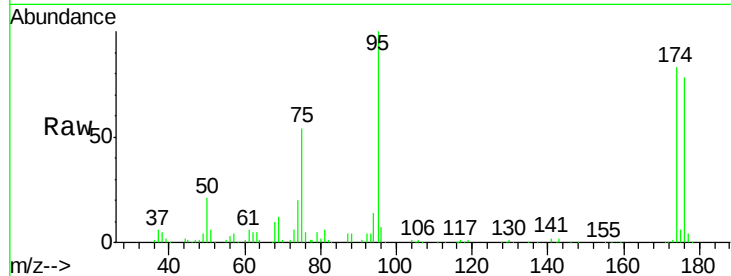
Tgt Ion: 75 Resp: 33464

Ion Ratio Lower Upper

75 100

53 0.0 72.3 108.5#

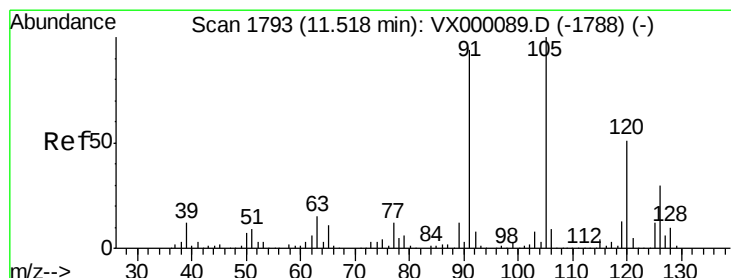
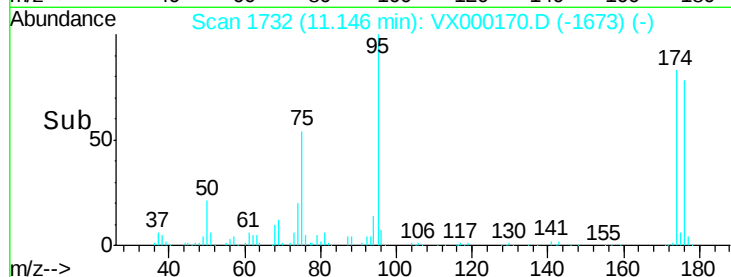
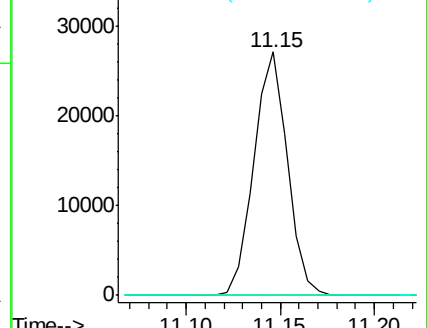
89 0.0 40.6 60.8#



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



#82

4-Chlorotoluene

Concen: 0.31 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. -0.01 min

Lab File: VX000170.D

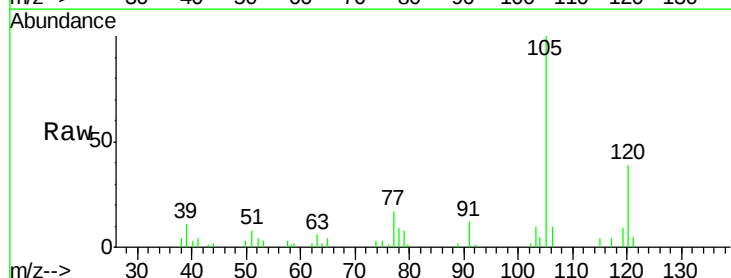
Acq: 28 Feb 2018 16:37

Tgt Ion: 91 Resp: 1077

Ion Ratio Lower Upper

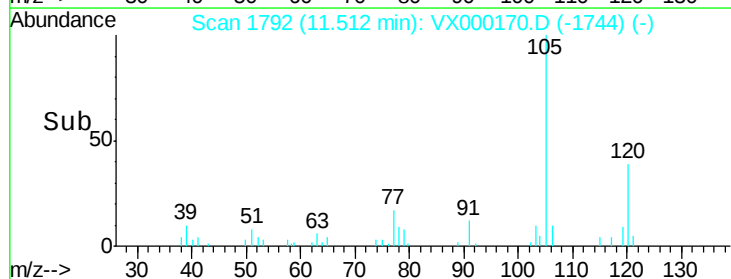
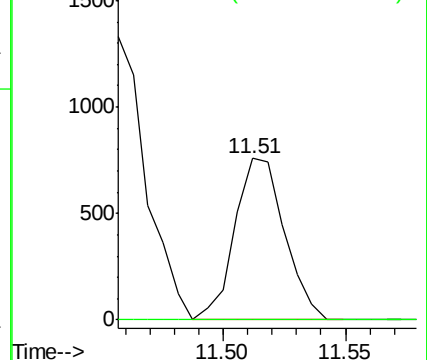
91 100

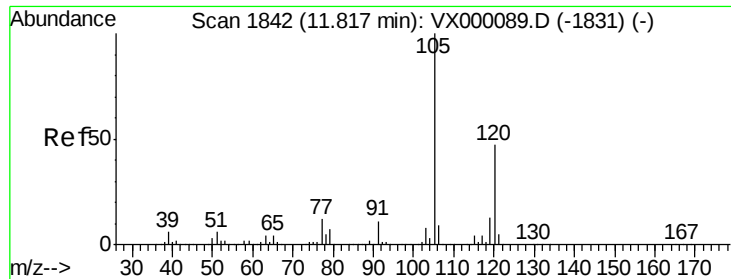
126 0.0 16.7 50.0#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

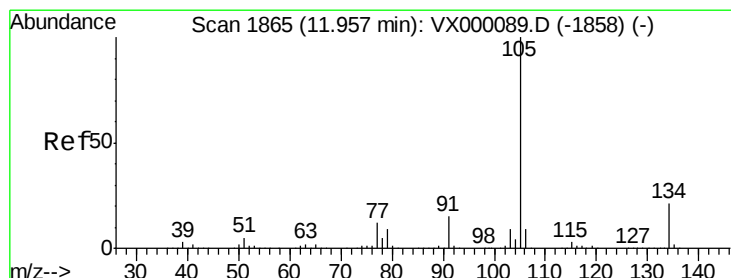
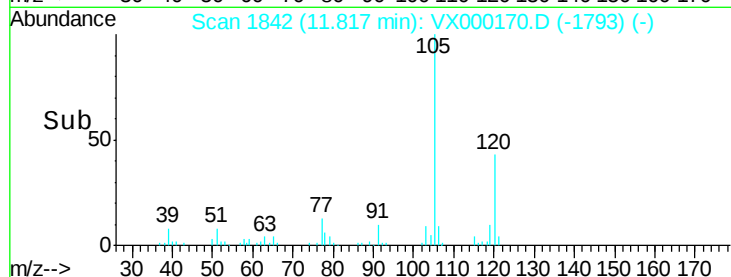
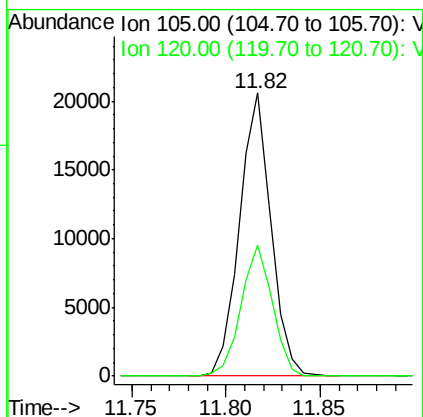
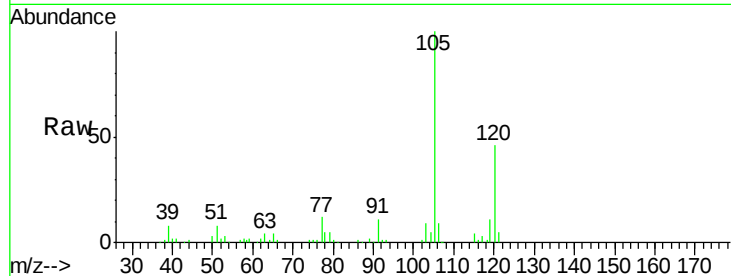




#84
 1,2,4-Trimethylbenzene
 Concen: 6.41 ug/l
 RT: 11.82 min Scan# 1842
 Delta R.T. -0.00 min
 Lab File: VX000170.D
 Acq: 28 Feb 2018 16:37

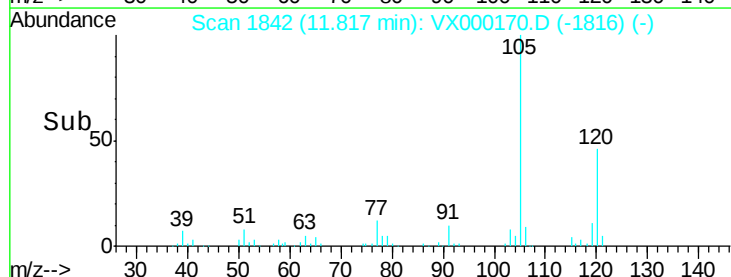
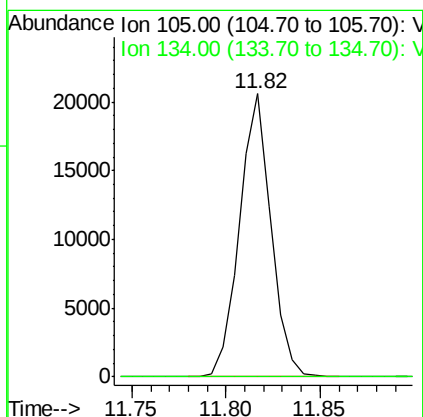
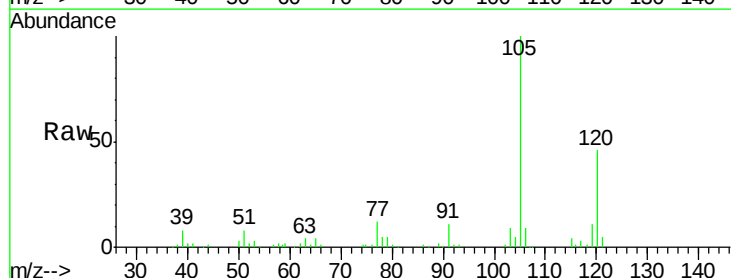
Instrument :
 MSVOA_X
 ClientSampleId :
 RFK-RMAB-MW13-GW

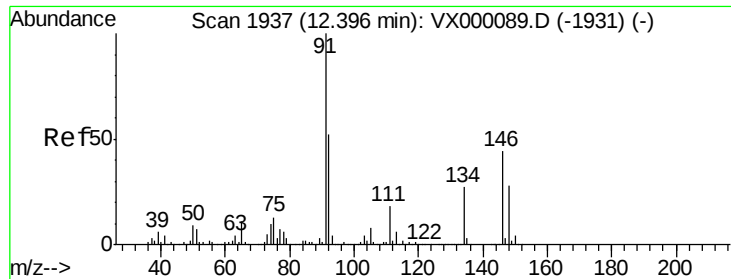
Tgt Ion:105 Resp: 23824
 Ion Ratio Lower Upper
 105 100
 120 45.9 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 5.30 ug/l
 RT: 11.82 min Scan# 1842
 Delta R.T. -0.14 min
 Lab File: VX000170.D
 Acq: 28 Feb 2018 16:37

Tgt Ion:105 Resp: 23824
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.5 31.6#

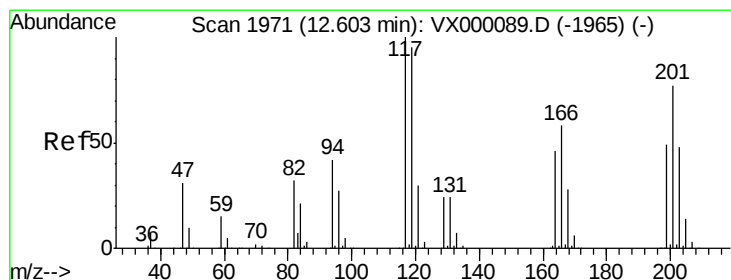
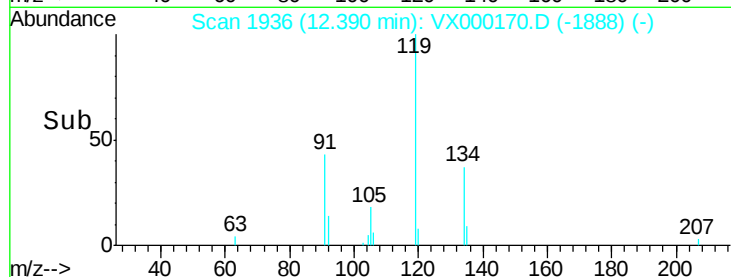
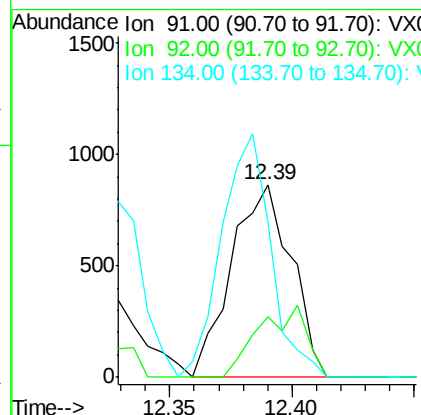
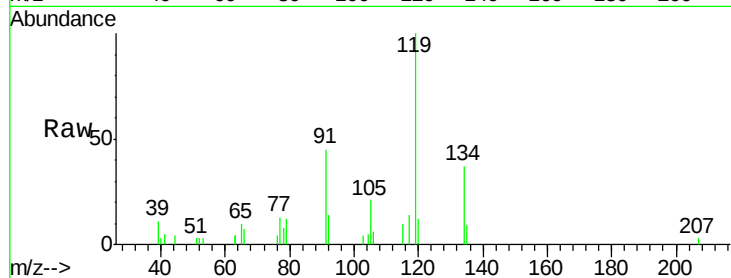




#89
n-Butylbenzene
Concen: 0.39 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. -0.01 min
Lab File: VX000170.D
Acq: 28 Feb 2018 16:37

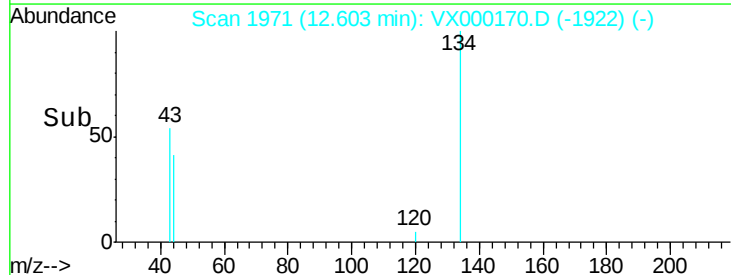
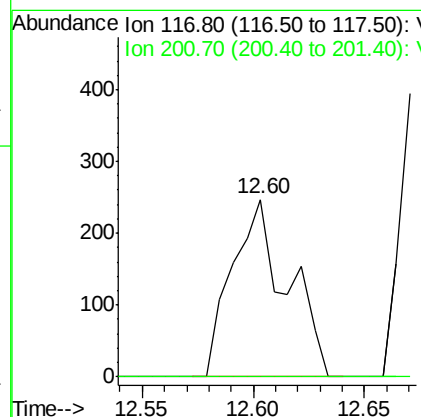
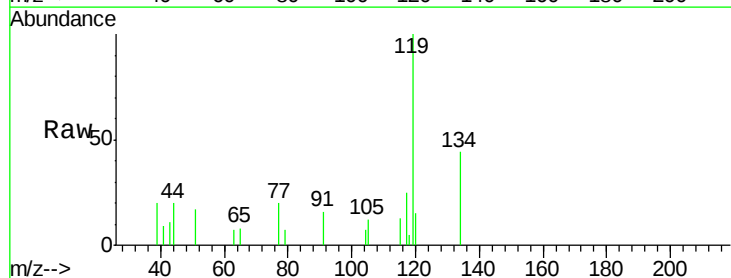
Instrument :
MSVOA_X
ClientSampleId :
RFK-RMAB-MW13-GW

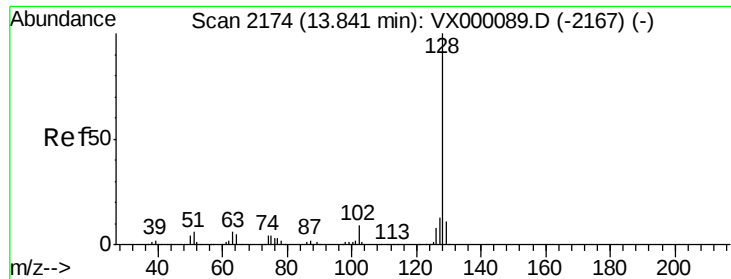
Tgt Ion: 91 Resp: 1461
Ion Ratio Lower Upper
91 100
92 30.0 26.2 78.6
134 104.4 14.3 42.9#



#90
Hexachloroethane
Concen: 0.65 ug/l
RT: 12.60 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VX000170.D
Acq: 28 Feb 2018 16:37

Tgt Ion: 117 Resp: 424
Ion Ratio Lower Upper
117 100
201 0.0 41.1 123.4#

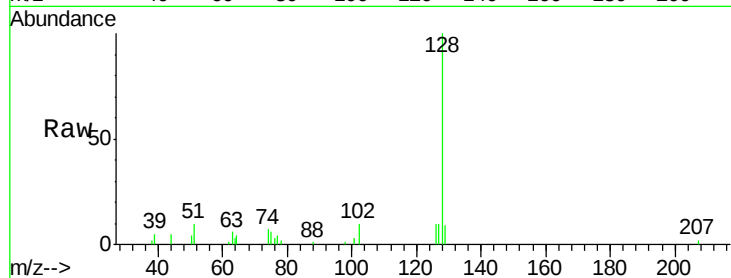




#95
Naphthalene
Concen: 1.03 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX000170.D
Acq: 28 Feb 2018 16:37

Instrument :
MSVOA_X
ClientSampleId :
RFK-RMAB-MW13-GW

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.4	15.6
129	10.2	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

