

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031519\
 Data File : VX008130.D
 Acq On : 16 Mar 2019 02:11
 Operator : JC/SP
 Sample : K1894-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RFK-RMAB-MW12-GW

Quant Time: Mar 16 03:12:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	262639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	392297	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	377155	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	194792	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	128570	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
35) Dibromofluoromethane	5.51	113	125629	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
50) Toluene-d8	8.71	98	472061	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	11.13	95	177659	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	

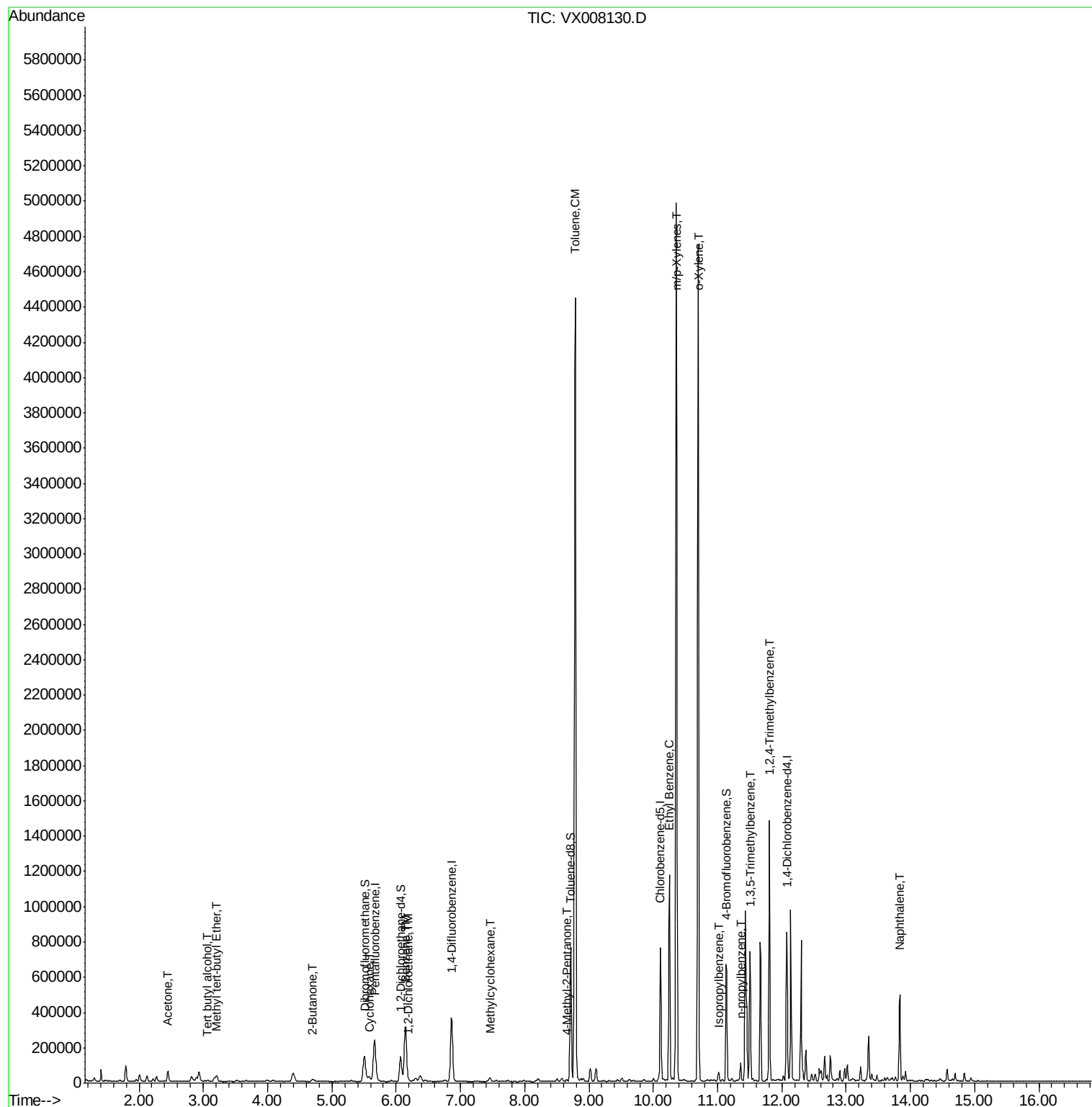
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.07	59	11136	21.756	ug/l	98
16) Acetone	2.45	43	64385	51.477	ug/l	97
19) Methyl tert-butyl Ether	3.21	73	35597	5.258	ug/l	100
25) 2-Butanone	4.70	43	25338	13.198	ug/l	93
31) Cyclohexane	5.57	56	18827	4.970	ug/l	92
39) Methylcyclohexane	7.46	83	10147	2.460	ug/l	91
40) Benzene	6.15	78	391468	39.594	ug/l	99
42) 1,2-Dichloroethane	6.20	62	5174	1.636	ug/l	97
51) 4-Methyl-2-Pentanone	8.65	43	6327	1.719	ug/l	99
52) Toluene	8.79	92	1753784	279.058	ug/l	99
67) Ethyl Benzene	10.25	91	684938	55.290	ug/l	99
68) m/p-Xylenes	10.36	106	1207466	254.722	ug/l	98
69) o-Xylene	10.70	106	1100356	238.117	ug/l	97
73) Isopropylbenzene	11.02	105	25421	2.038	ug/l	100
78) n-propylbenzene	11.36	91	60306	4.406	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	322010	31.322	ug/l	100
84) 1,2,4-Trimethylbenzene	11.80	105	643753	60.706	ug/l	97
95) Naphthalene	13.83	128	317125	26.478	ug/l	100

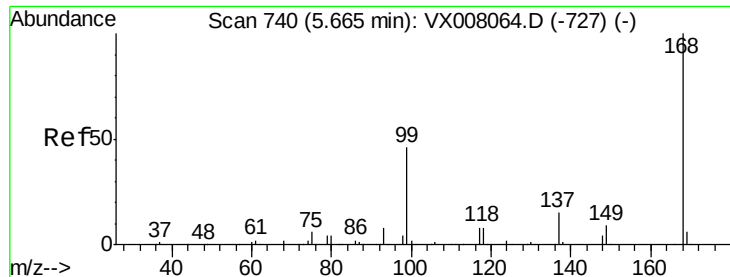
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

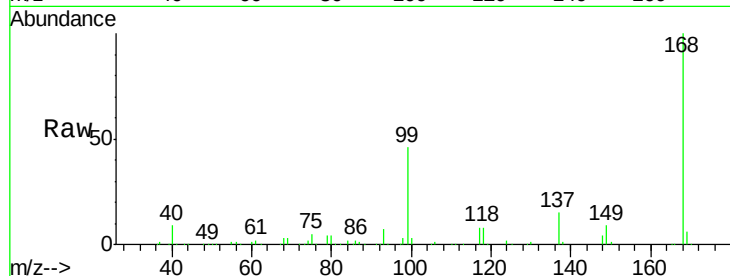
RFK-RMAB-MW12-GW

Tot Ion:168 Resp: 262639

Ion Ratio Lower Upper

168 100

99 45.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

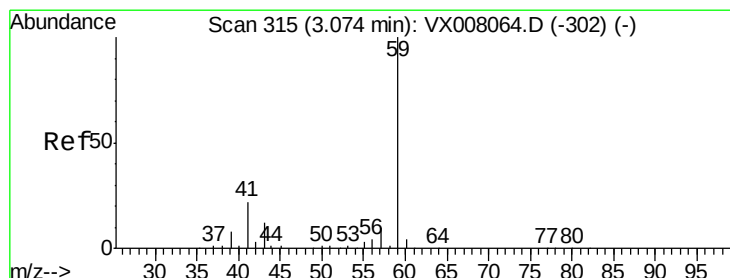
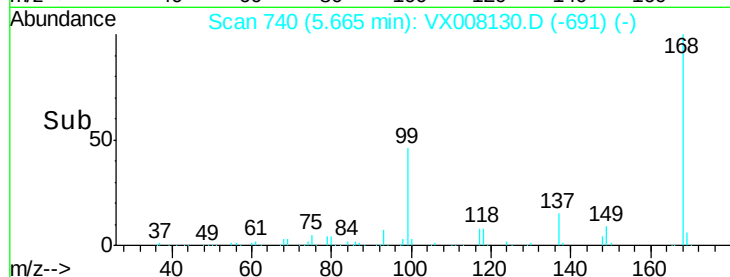
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 21.756 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX008130.D

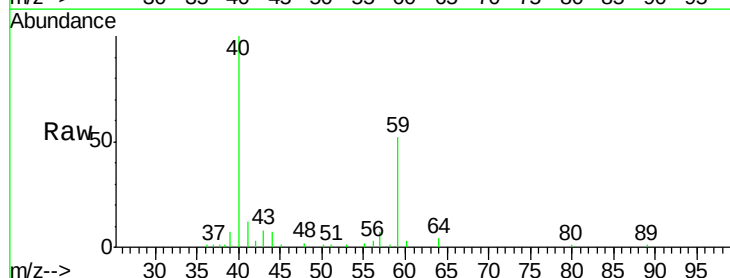
Acq: 16 Mar 2019 02:11

Tgt Ion: 59 Resp: 11136

Ion Ratio Lower Upper

59 100

57 9.5 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

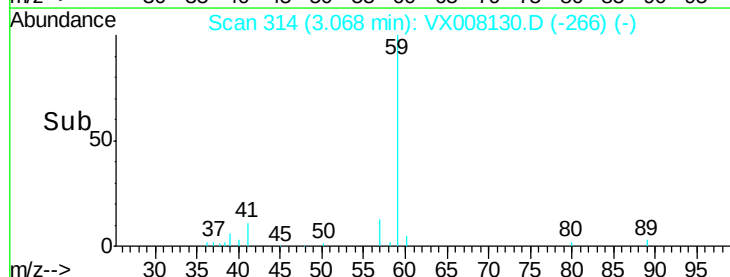
6000

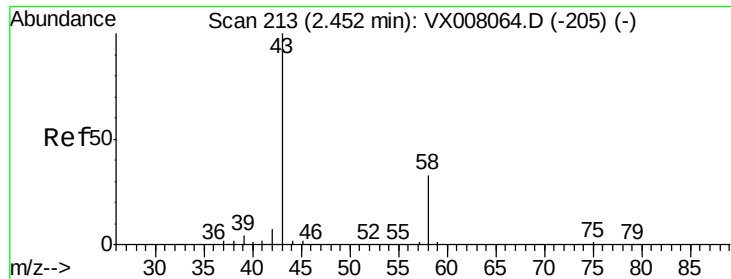
4000

2000

0

Time--> 2.90 3.00 3.10 3.20





#16

Acetone

Concen: 51.477 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

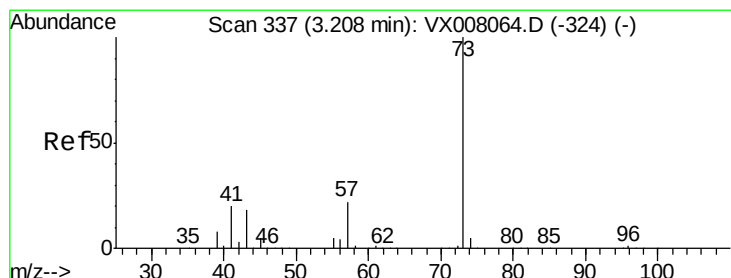
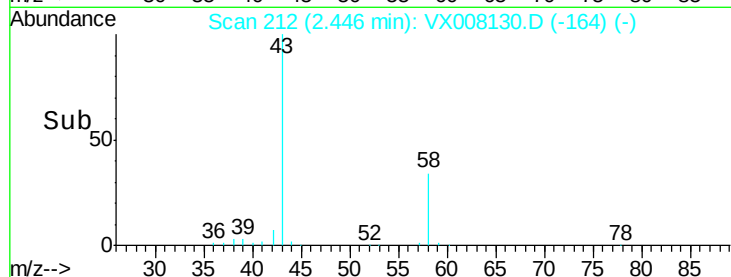
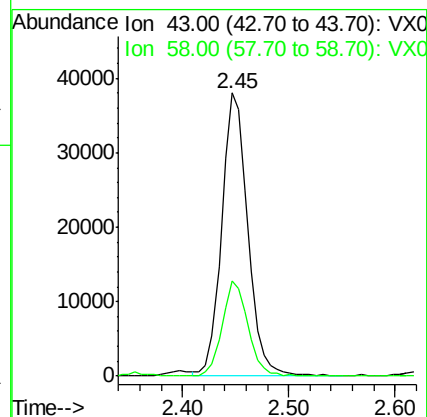
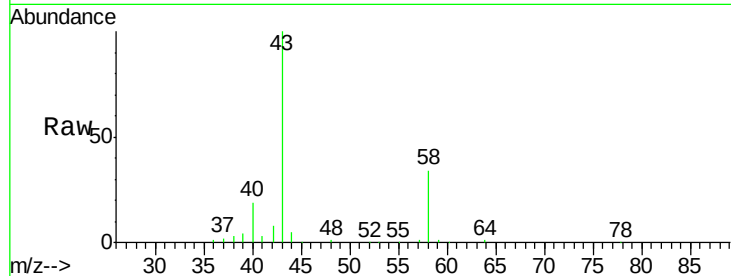
RFK-RMAB-MW12-GW

Tot Ion: 43 Resp: 64385

Ion Ratio Lower Upper

43 100

58 33.8 25.5 38.3



#19

Methyl tert-butyl Ether

Concen: 5.258 ug/l

RT: 3.21 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX008130.D

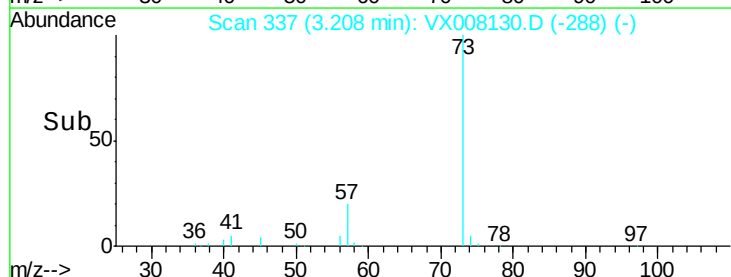
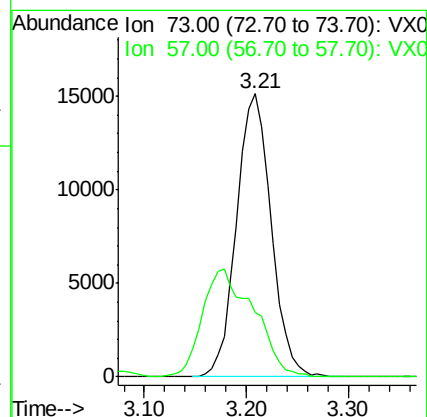
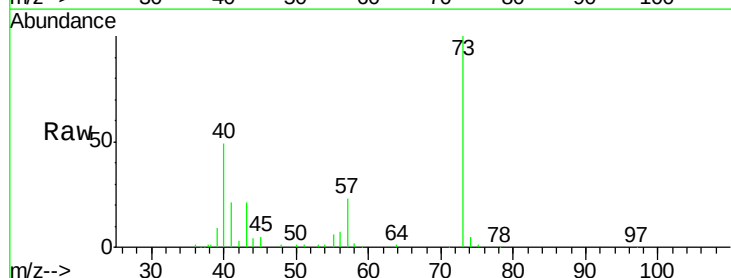
Acq: 16 Mar 2019 02:11

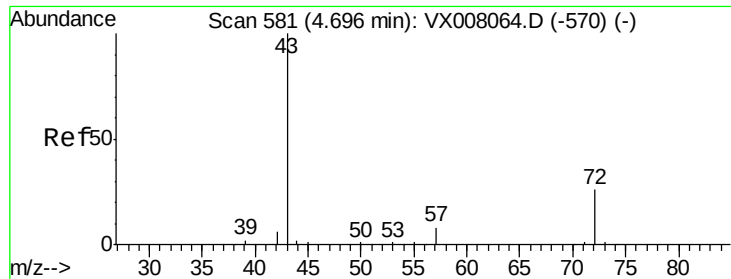
Tgt Ion: 73 Resp: 35597

Ion Ratio Lower Upper

73 100

57 23.0 18.2 27.4





#25

2-Butanone

Concen: 13.198 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

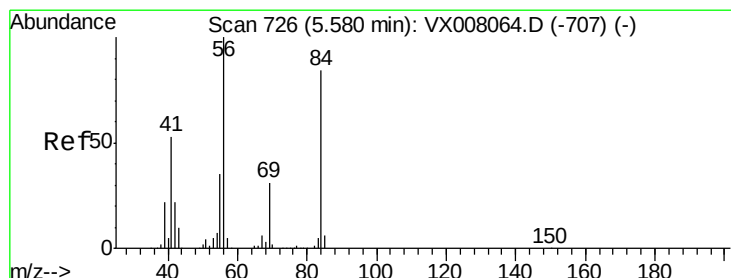
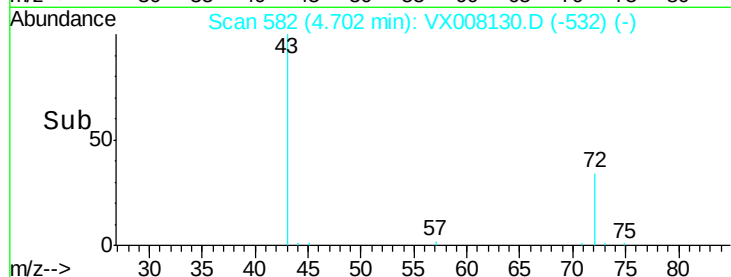
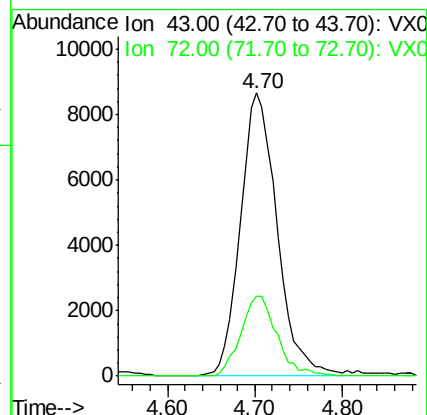
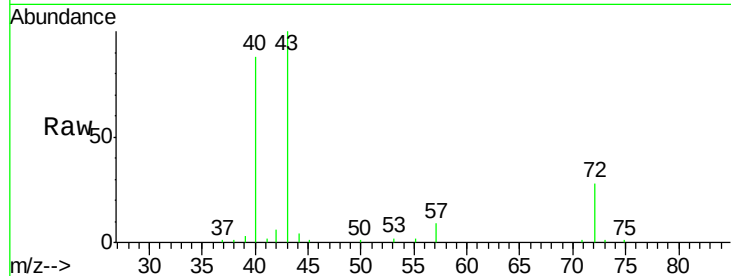
RFK-RMAB-MW12-GW

Tot Ion: 43 Resp: 25338

Ion Ratio Lower Upper

43 100

72 28.4 19.9 29.9



#31

Cyclohexane

Concen: 4.970 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

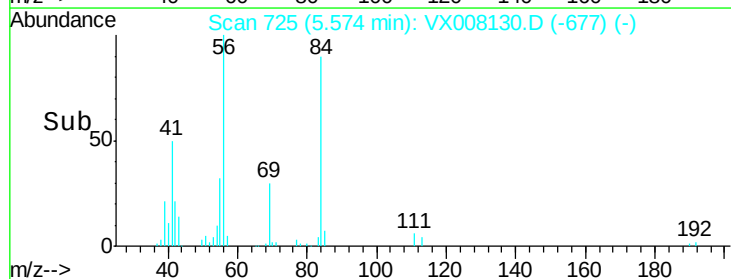
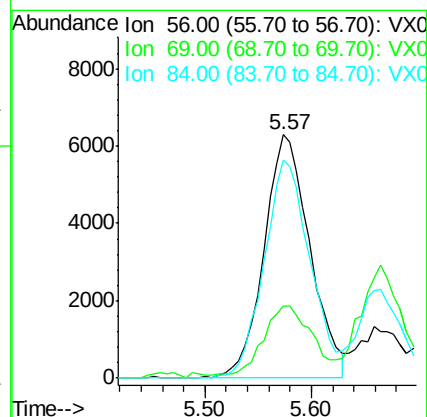
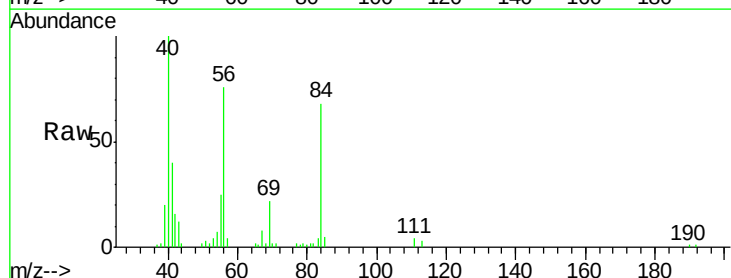
Tgt Ion: 56 Resp: 18827

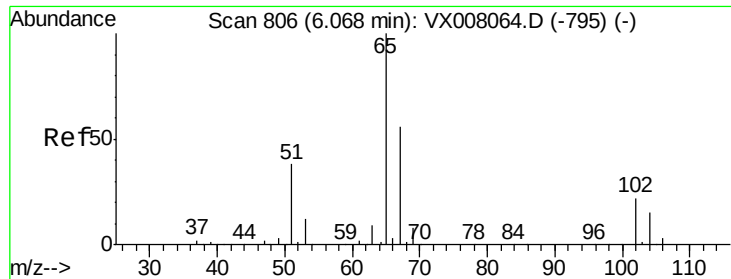
Ion Ratio Lower Upper

56 100

69 27.6 24.0 36.0

84 89.7 65.3 97.9

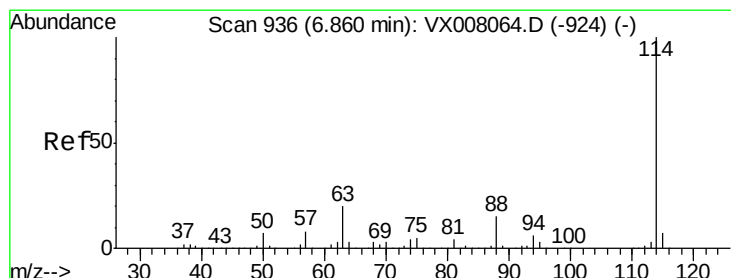
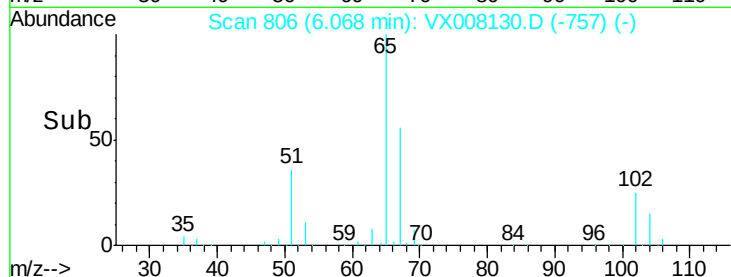
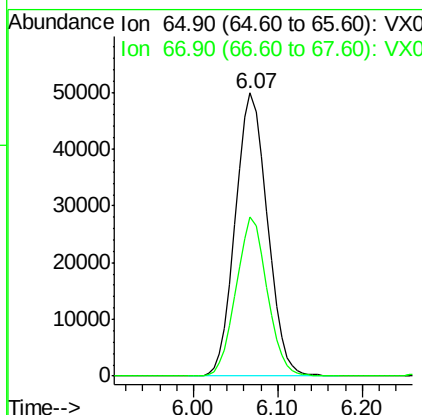
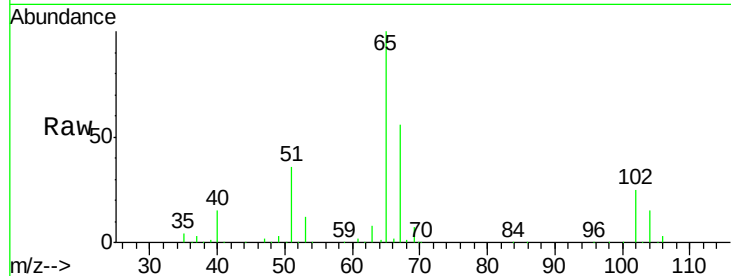




#33
 1,2-Dichloroethane-d4
 Concen: 48.529 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008130.D
 Acq: 16 Mar 2019 02:11

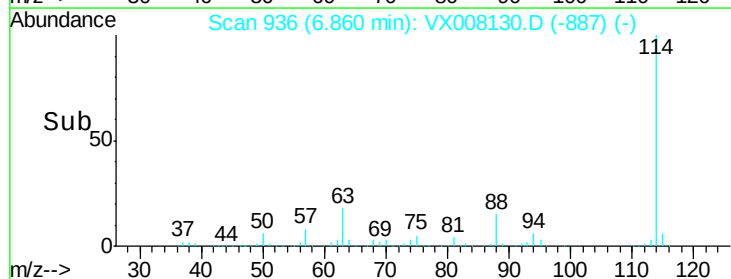
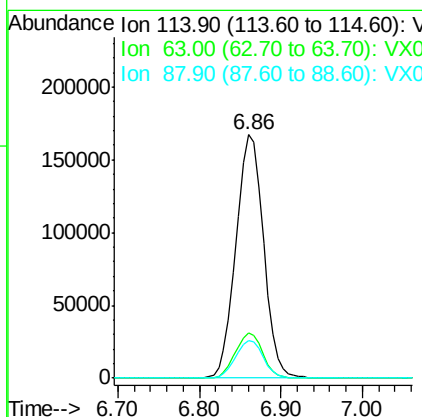
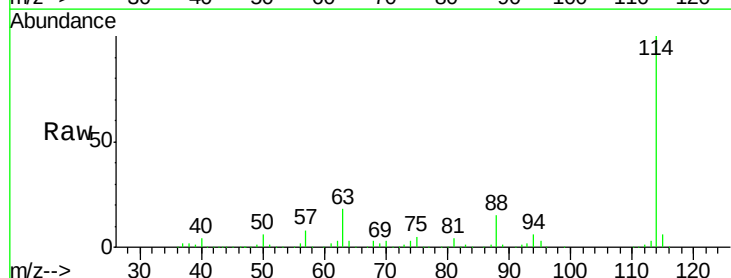
Instrument :
 MSVOA_X
 ClientSampleId :
 RFK-RMAB-MW12-GW

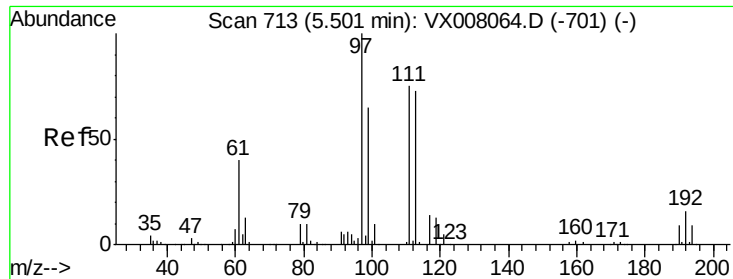
Tot Ion: 65 Resp: 128570
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008130.D
 Acq: 16 Mar 2019 02:11

Tgt Ion: 114 Resp: 392297
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 39.8
 88 15.5 0.0 31.4

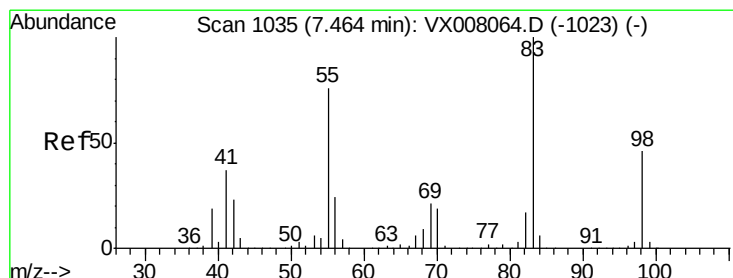
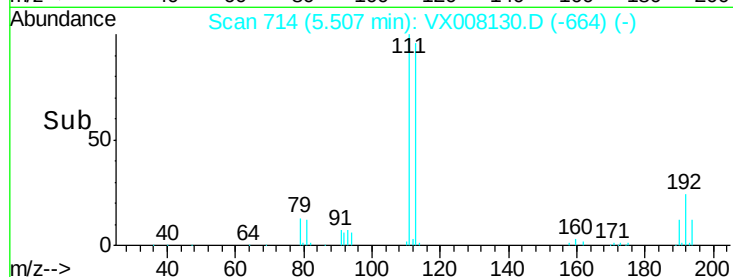
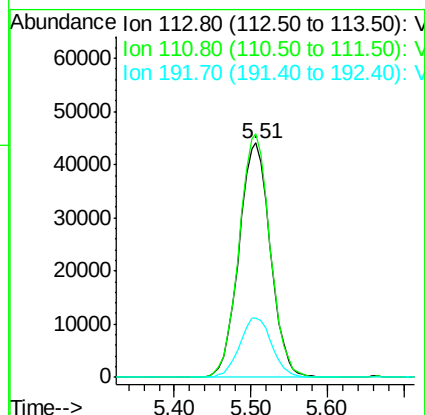
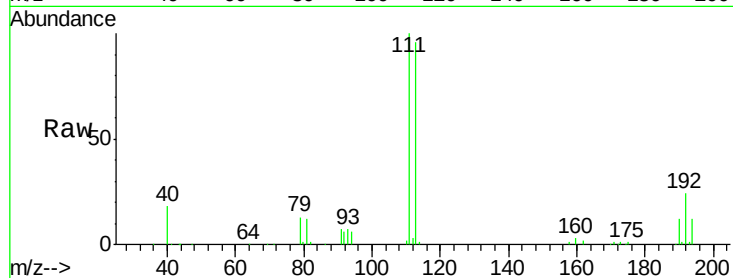




#35
 Dibromofluoromethane
 Concen: 50.499 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX008130.D
 Acq: 16 Mar 2019 02:11

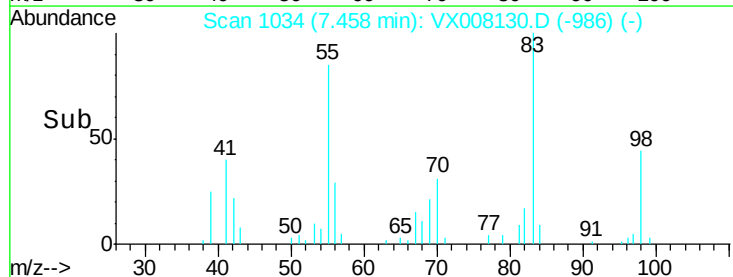
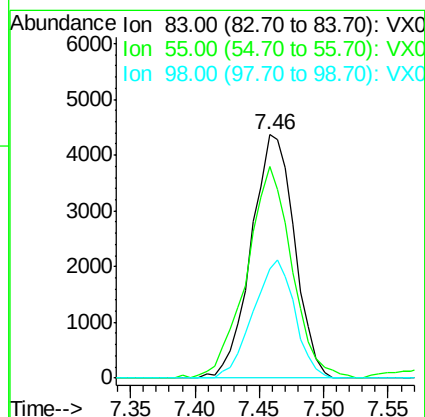
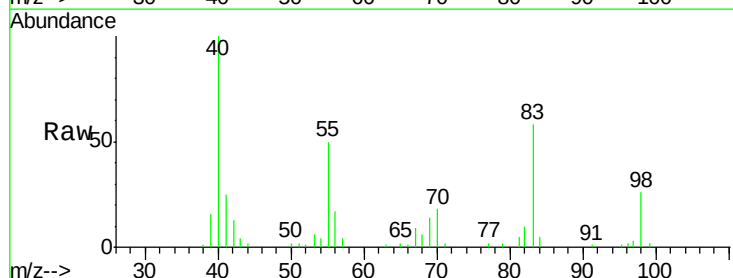
Instrument :
 MSVOA_X
 ClientSampleId :
 RFK-RMAB-MW12-GW

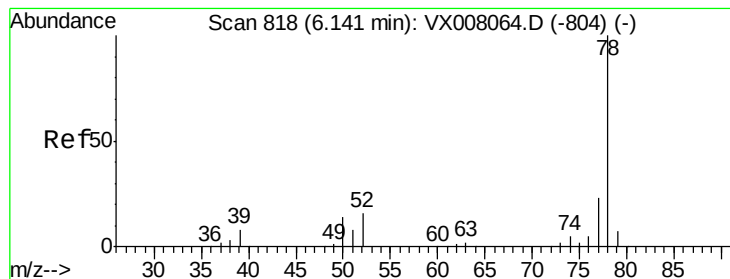
Tot Ion:113 Resp: 125629
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.4 122.0
 192 26.0 19.4 29.0



#39
 Methylcyclohexane
 Concen: 2.460 ug/l
 RT: 7.46 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: VX008130.D
 Acq: 16 Mar 2019 02:11

Tgt Ion: 83 Resp: 10147
 Ion Ratio Lower Upper
 83 100
 55 86.7 60.4 90.6
 98 44.8 36.5 54.7





#40

Benzene

Concen: 39.594 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

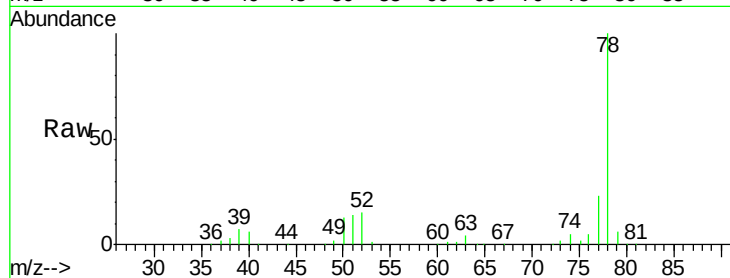
RFK-RMAB-MW12-GW

Tot Ion: 78 Resp: 391468

Ion Ratio Lower Upper

78 100

77 23.3 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

150000

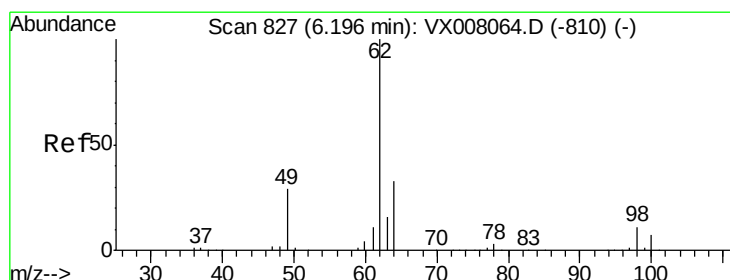
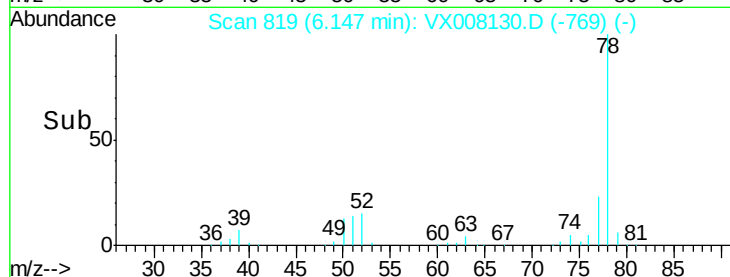
100000

50000

0

6.00 6.10 6.20 6.30

Time-->



#42

1,2-Dichloroethane

Concen: 1.636 ug/l

RT: 6.20 min Scan# 827

Delta R.T. 0.00 min

Lab File: VX008130.D

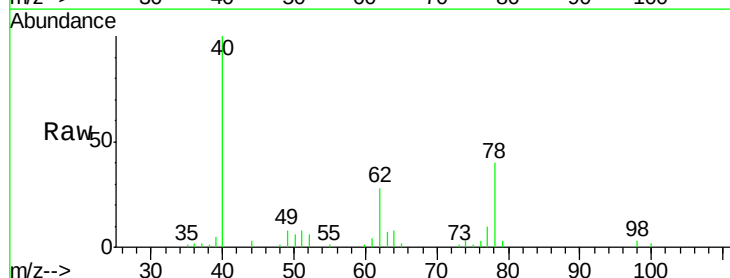
Acq: 16 Mar 2019 02:11

Tgt Ion: 62 Resp: 5174

Ion Ratio Lower Upper

62 100

98 11.4 0.0 20.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

2000

1500

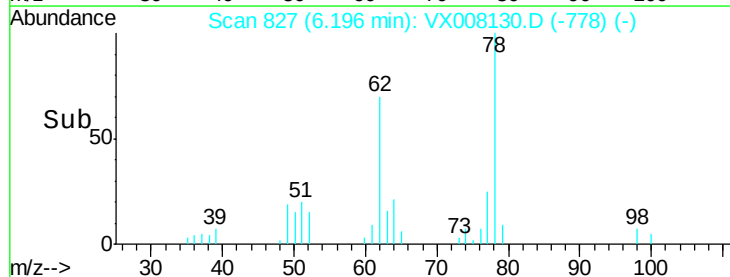
1000

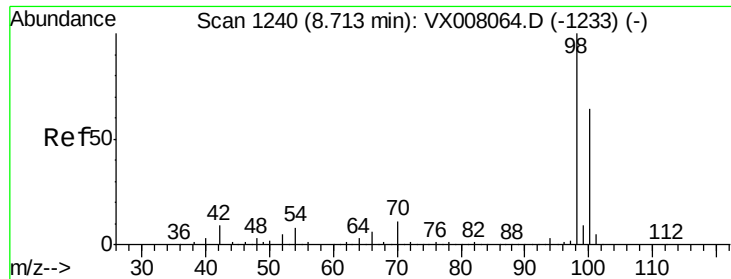
500

0

6.15 6.20 6.25 6.30

Time-->

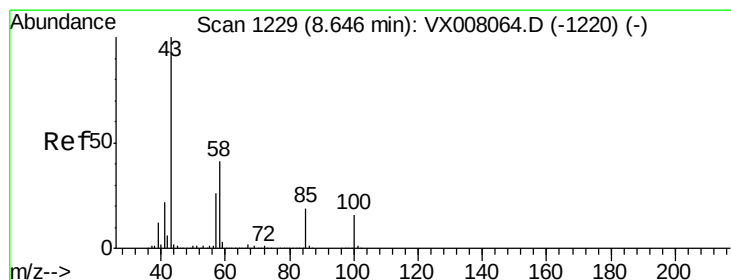
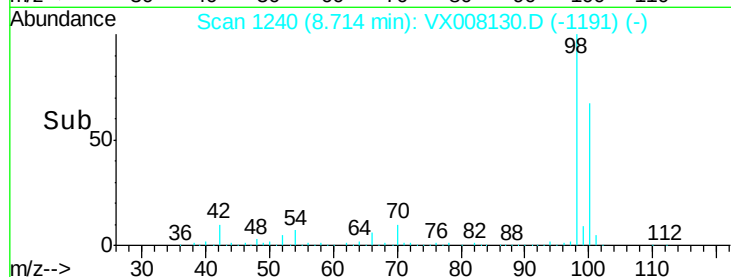
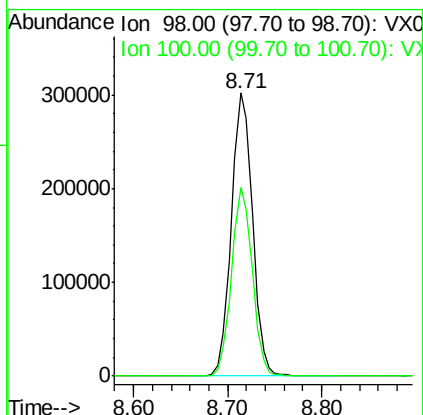
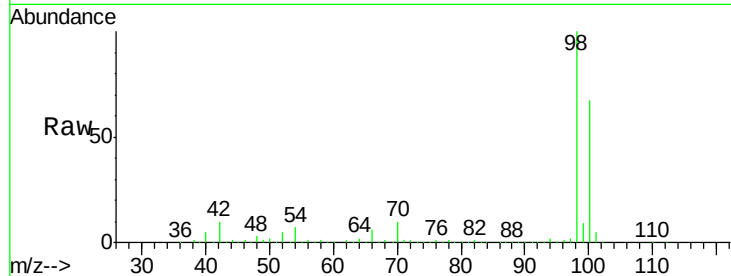




#50
Toluene-d8
Concen: 49.892 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008130.D
Acq: 16 Mar 2019 02:11

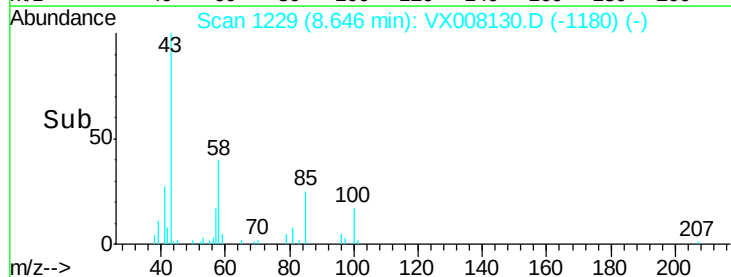
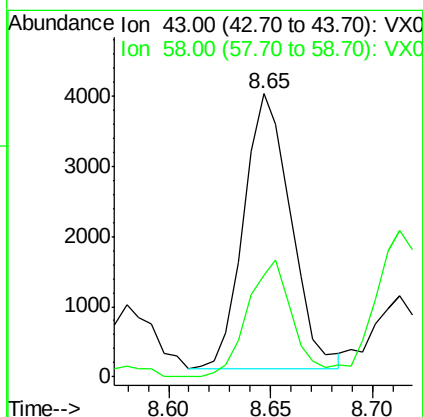
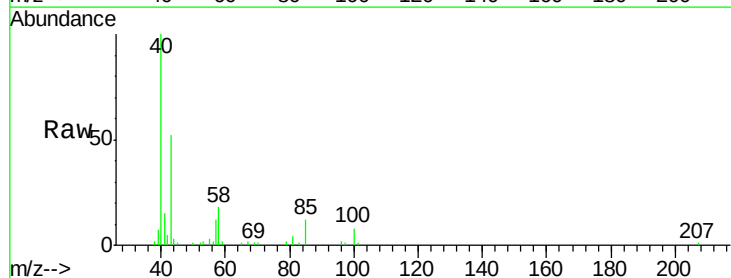
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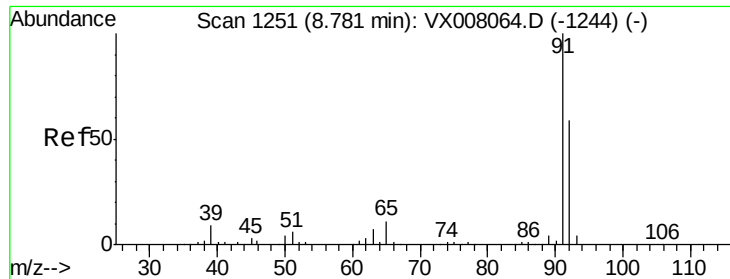
Tot Ion: 98 Resp: 472061
Ion Ratio Lower Upper
98 100
100 65.0 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.719 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VX008130.D
Acq: 16 Mar 2019 02:11

Tgt Ion: 43 Resp: 6327
Ion Ratio Lower Upper
43 100
58 39.9 31.3 46.9





#52

Toluene

Concen: 279.058 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

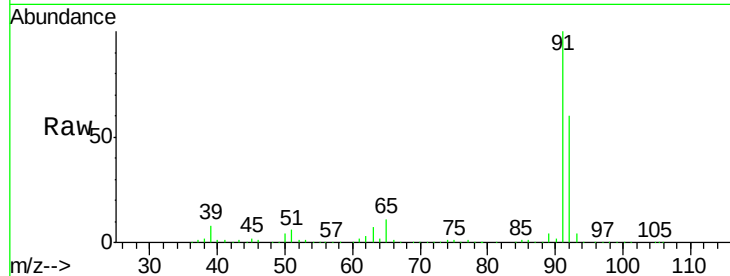
RFK-RMAB-MW12-GW

Tot Ion: 92 Resp: 1753784

Ion Ratio Lower Upper

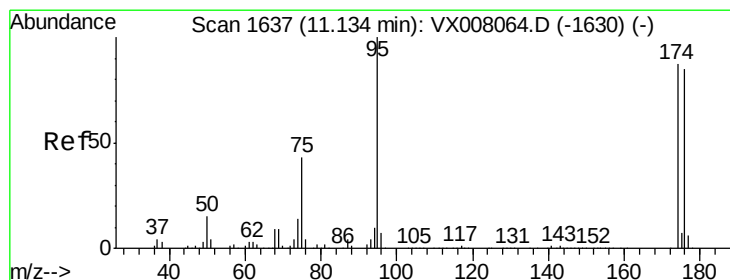
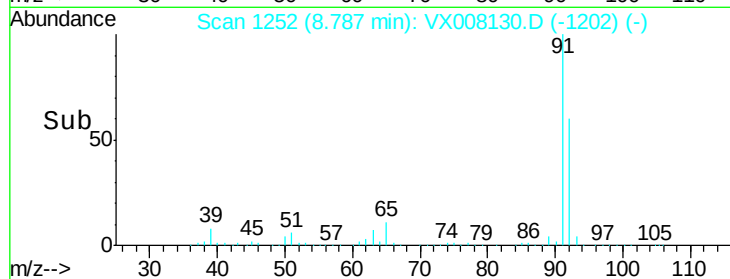
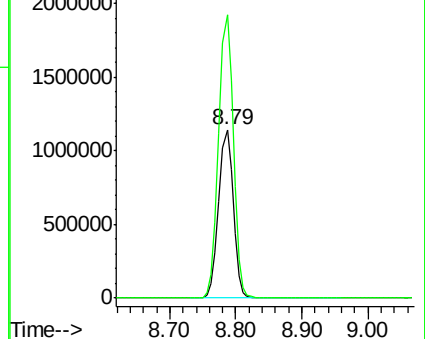
92 100

91 169.8 137.4 206.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 52.415 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

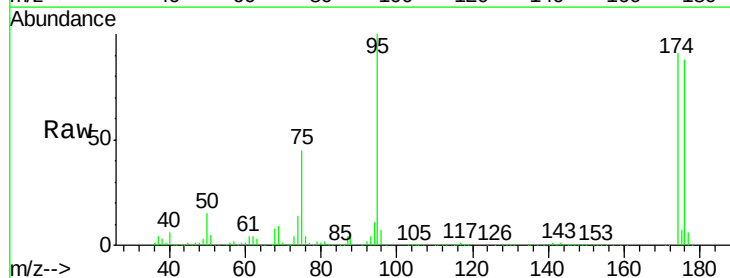
Tgt Ion: 95 Resp: 177659

Ion Ratio Lower Upper

95 100

174 97.3 0.0 182.8

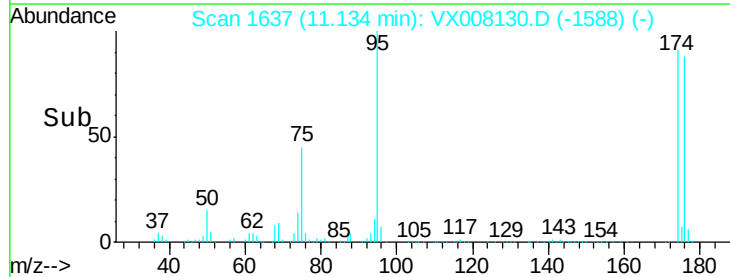
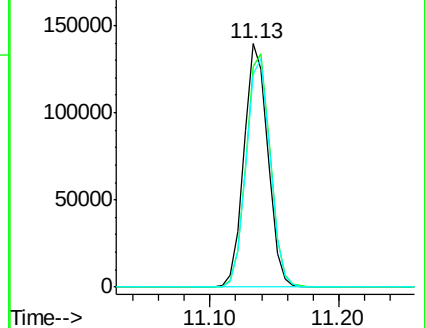
176 94.6 0.0 178.0

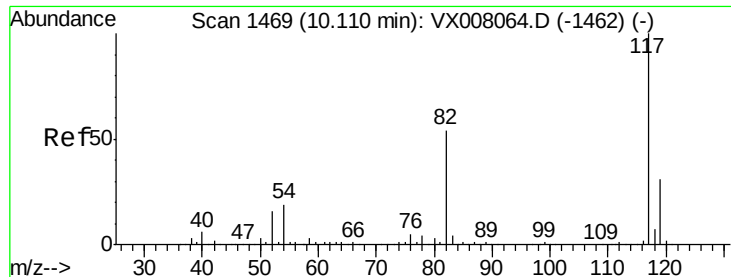


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

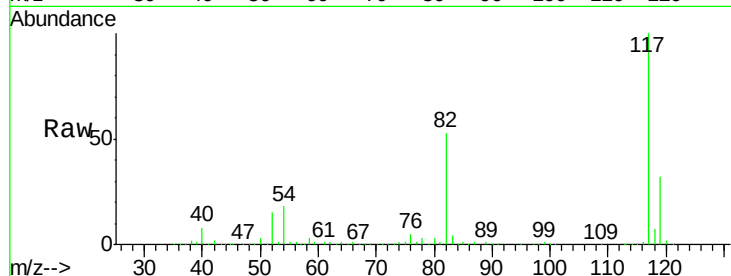




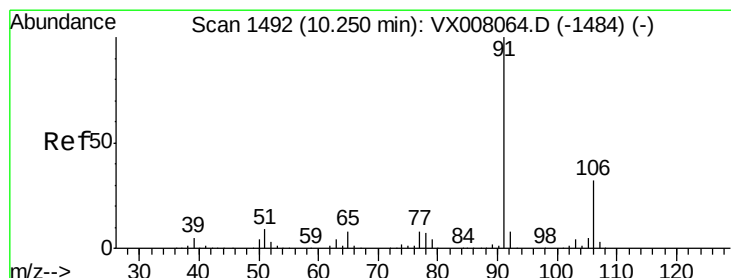
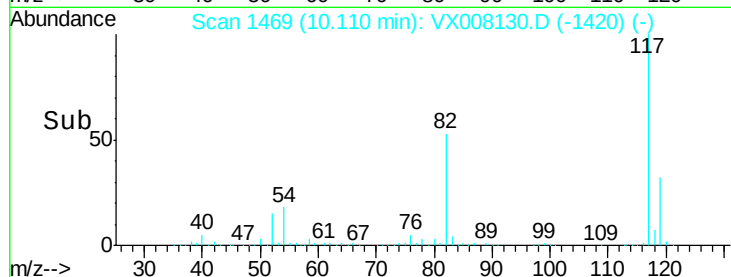
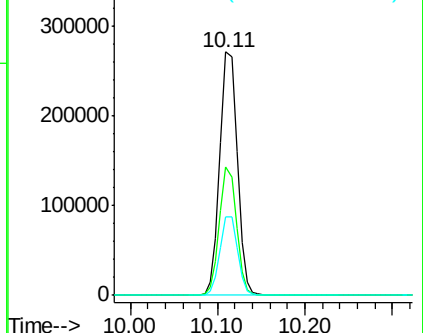
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008130.D
Acq: 16 Mar 2019 02:11

Instrument :
MSVOA_X
ClientSampleId :
RFK-RMAB-MW12-GW

Tot Ion:117 Resp: 377155
Ion Ratio Lower Upper
117 100
82 52.5 44.3 66.5
119 32.1 25.3 37.9

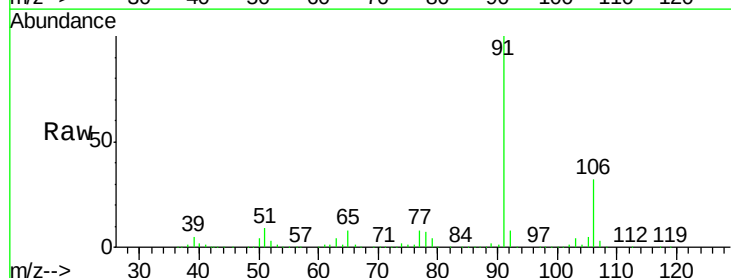


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

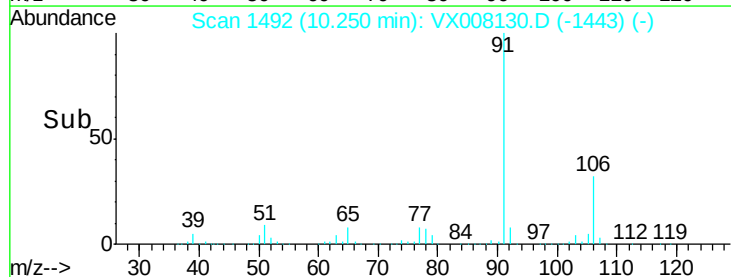
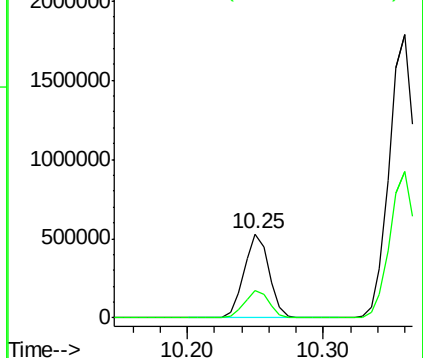


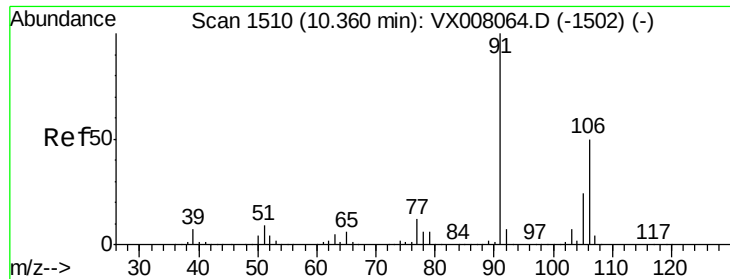
#67
Ethyl Benzene
Concen: 55.290 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX008130.D
Acq: 16 Mar 2019 02:11

Tgt Ion: 91 Resp: 684938
Ion Ratio Lower Upper
91 100
106 32.3 25.2 37.8



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

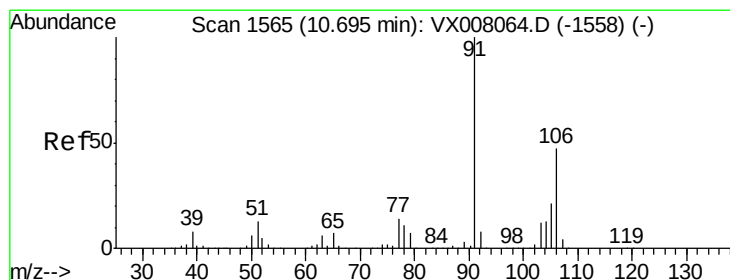
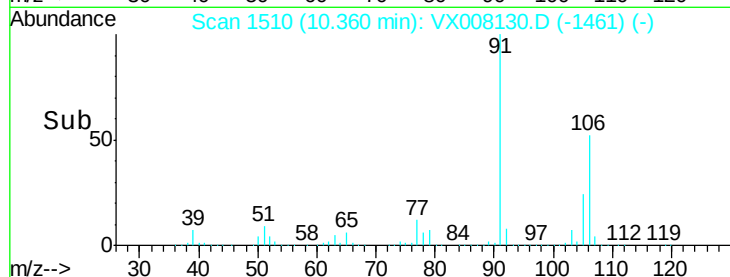
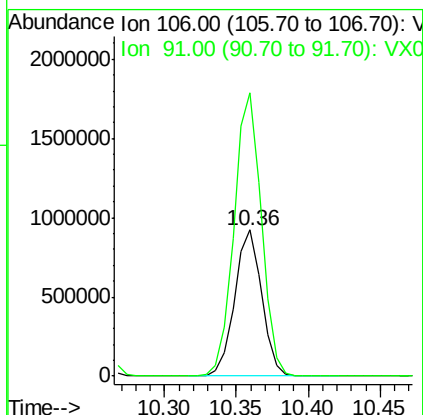
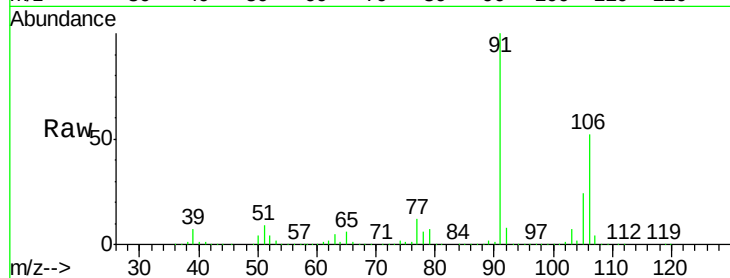




#68
m/p-Xylenes
Concen: 254.722 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX008130.D
Acq: 16 Mar 2019 02:11

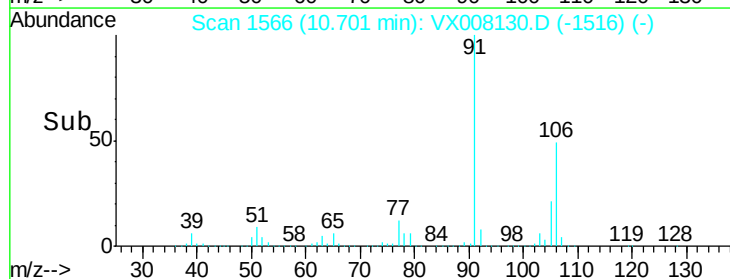
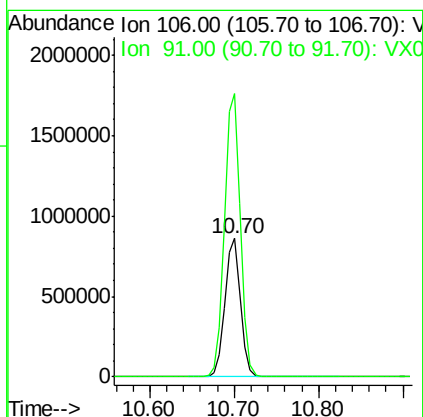
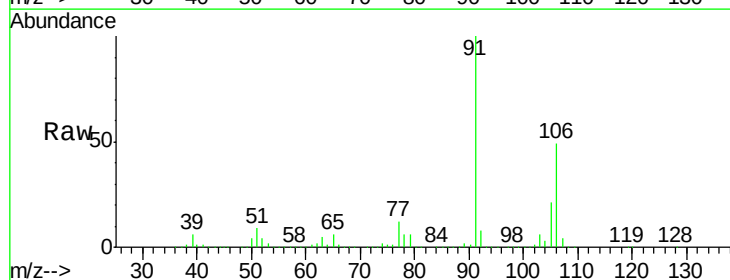
Instrument :
MSVOA_X
ClientSampleId :
RFK-RMAB-MW12-GW

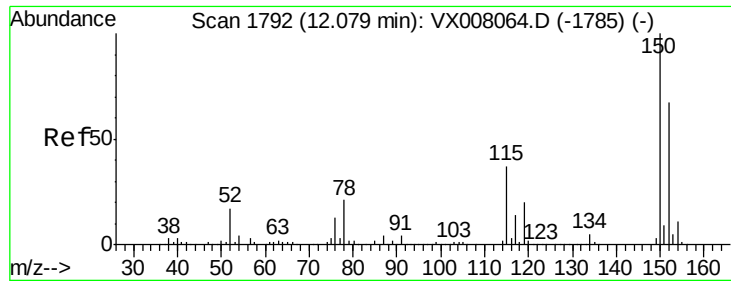
Tot Ion:106 Resp: 1207466
Ion Ratio Lower Upper
106 100
91 196.5 159.8 239.6



#69
o-Xylene
Concen: 238.117 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008130.D
Acq: 16 Mar 2019 02:11

Tgt Ion:106 Resp: 1100356
Ion Ratio Lower Upper
106 100
91 208.4 106.3 318.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

RFK-RMAB-MW12-GW

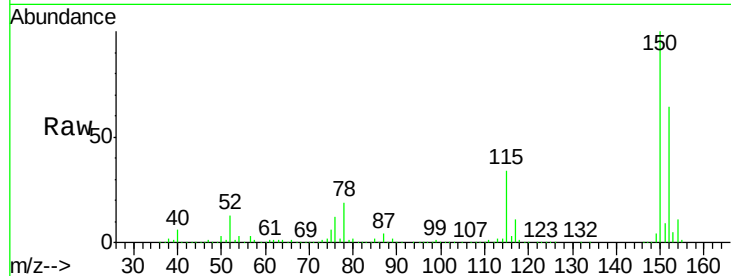
Tot Ion:152 Resp: 194792

Ion Ratio Lower Upper

152 100

115 53.8 38.6 115.7

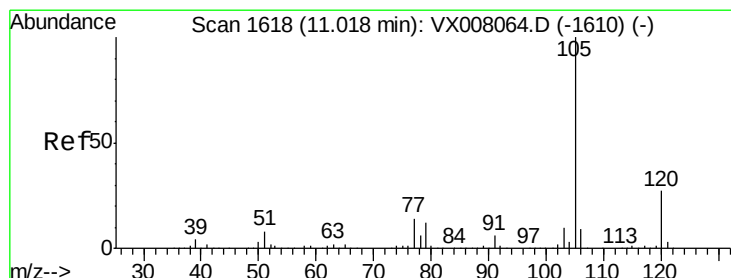
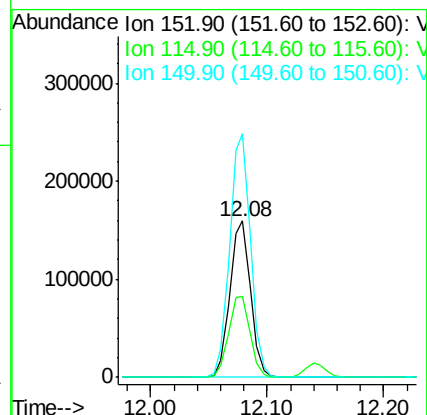
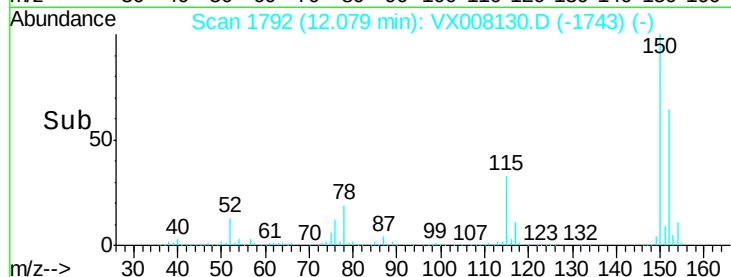
150 157.1 0.0 348.4



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: 2.038 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX008130.D

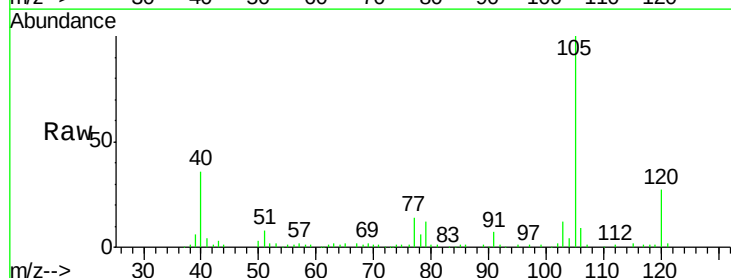
Acq: 16 Mar 2019 02:11

Tgt Ion:105 Resp: 25421

Ion Ratio Lower Upper

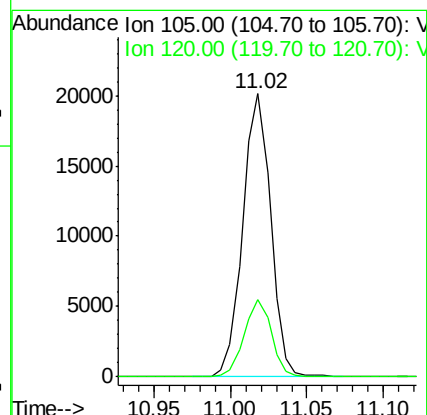
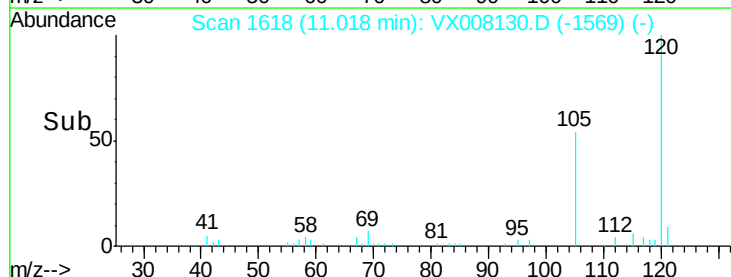
105 100

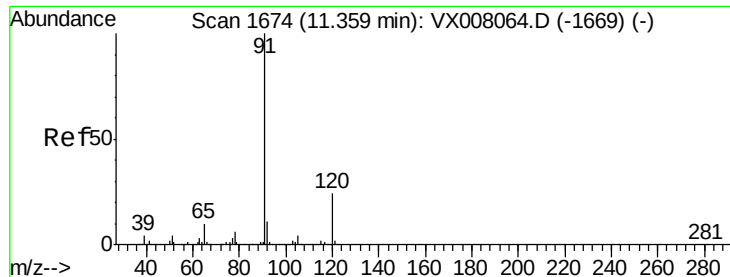
120 26.5 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 4.406 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

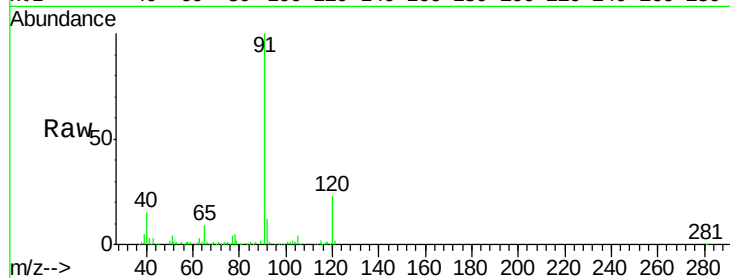
RFK-RMAB-MW12-GW

Tot Ion: 91 Resp: 60306

Ion Ratio Lower Upper

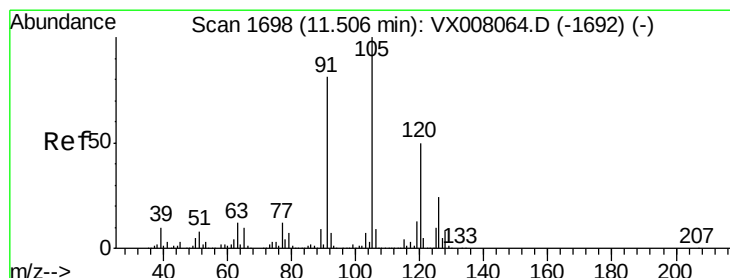
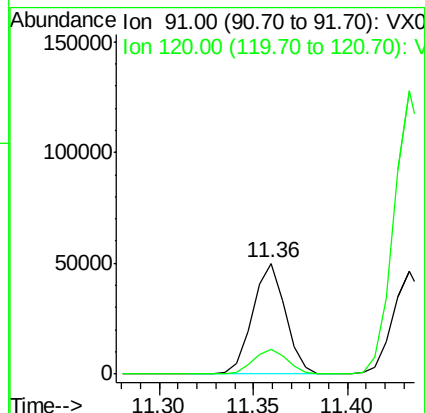
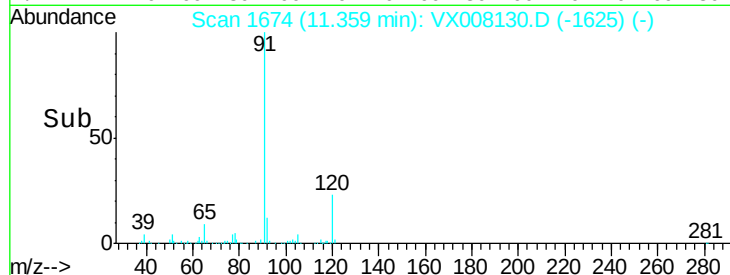
91 100

120 23.5 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VX008130.D (-1625) (-)

Ion 120.00 (119.70 to 120.70): VX008130.D (-1625) (-)



#80

1,3,5-Trimethylbenzene

Concen: 31.322 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX008130.D

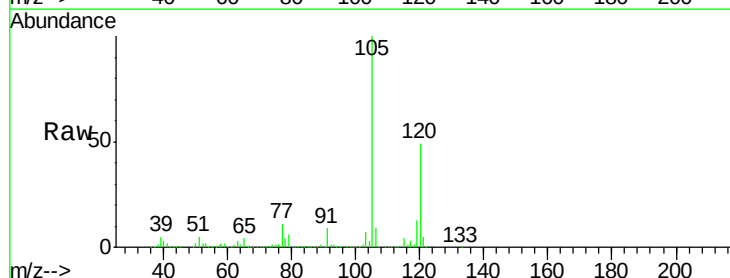
Acq: 16 Mar 2019 02:11

Tgt Ion: 105 Resp: 322010

Ion Ratio Lower Upper

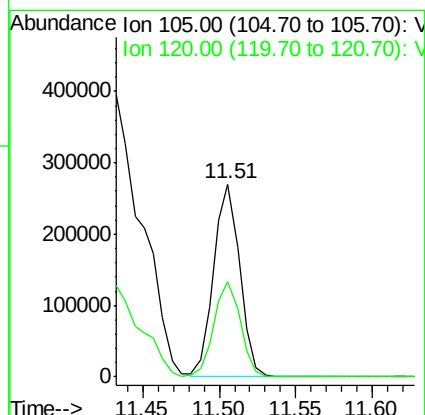
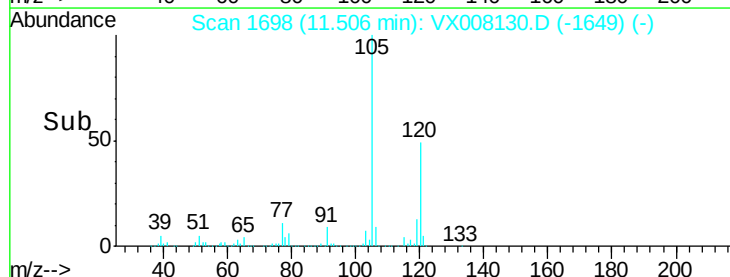
105 100

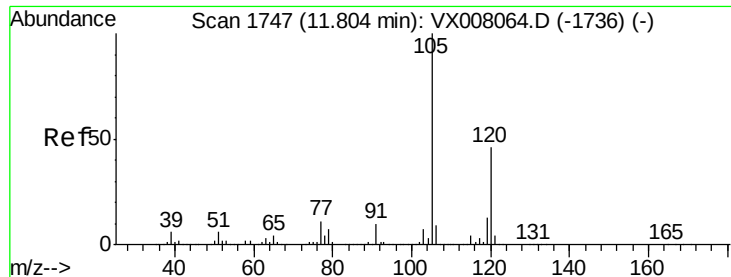
120 50.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VX008130.D (-1649) (-)

Ion 120.00 (119.70 to 120.70): VX008130.D (-1649) (-)





#84

1,2,4-Trimethylbenzene

Concen: 60.706 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

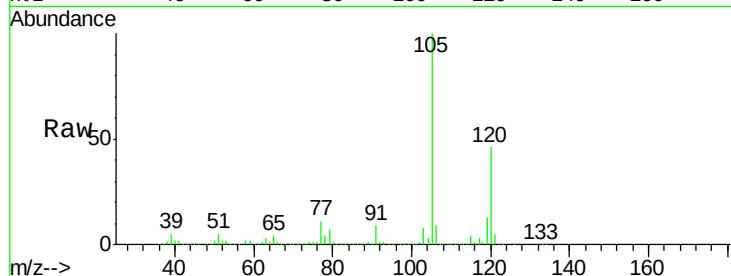
RFK-RMAB-MW12-GW

Tot Ion:105 Resp: 643753

Ion Ratio Lower Upper

105 100

120 46.8 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

600000

500000

400000

300000

200000

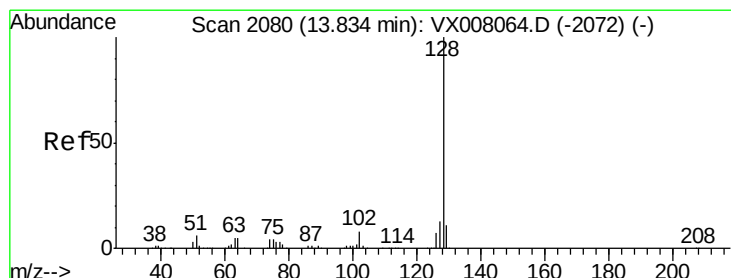
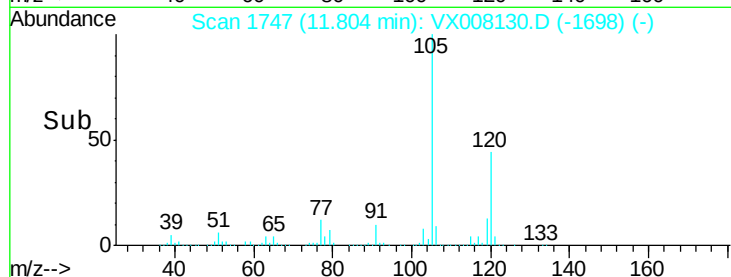
100000

0

11.80

11.90

Time-->



#95

Naphthalene

Concen: 26.478 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008130.D

Acq: 16 Mar 2019 02:11

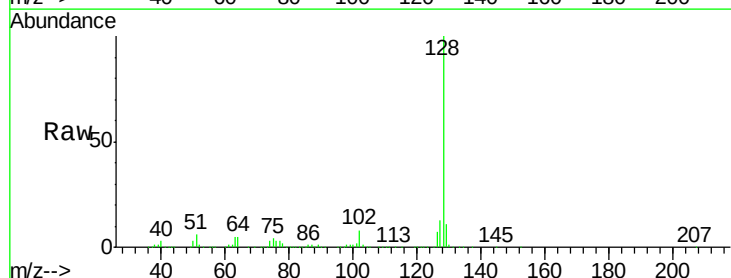
Tgt Ion:128 Resp: 317125

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

129 10.9 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

300000

200000

100000

0

13.83

13.90

Time-->

