

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX063018\
 Data File : VX003114.D
 Acq On : 01 Jul 2018 08:39
 Operator : JC/MD
 Sample : J3799-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ULMER-PARK-FIELD-BLANK-2-6-27

Quant Time: Jul 02 05:00:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	279715	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	392538	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	367260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	216730	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	185492	47.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.96%	
35) Dibromofluoromethane	5.51	113	155890	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
50) Toluene-d8	8.72	98	550856	48.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.06%	
62) 4-Bromofluorobenzene	11.14	95	197438	45.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.20%	

Target Compounds

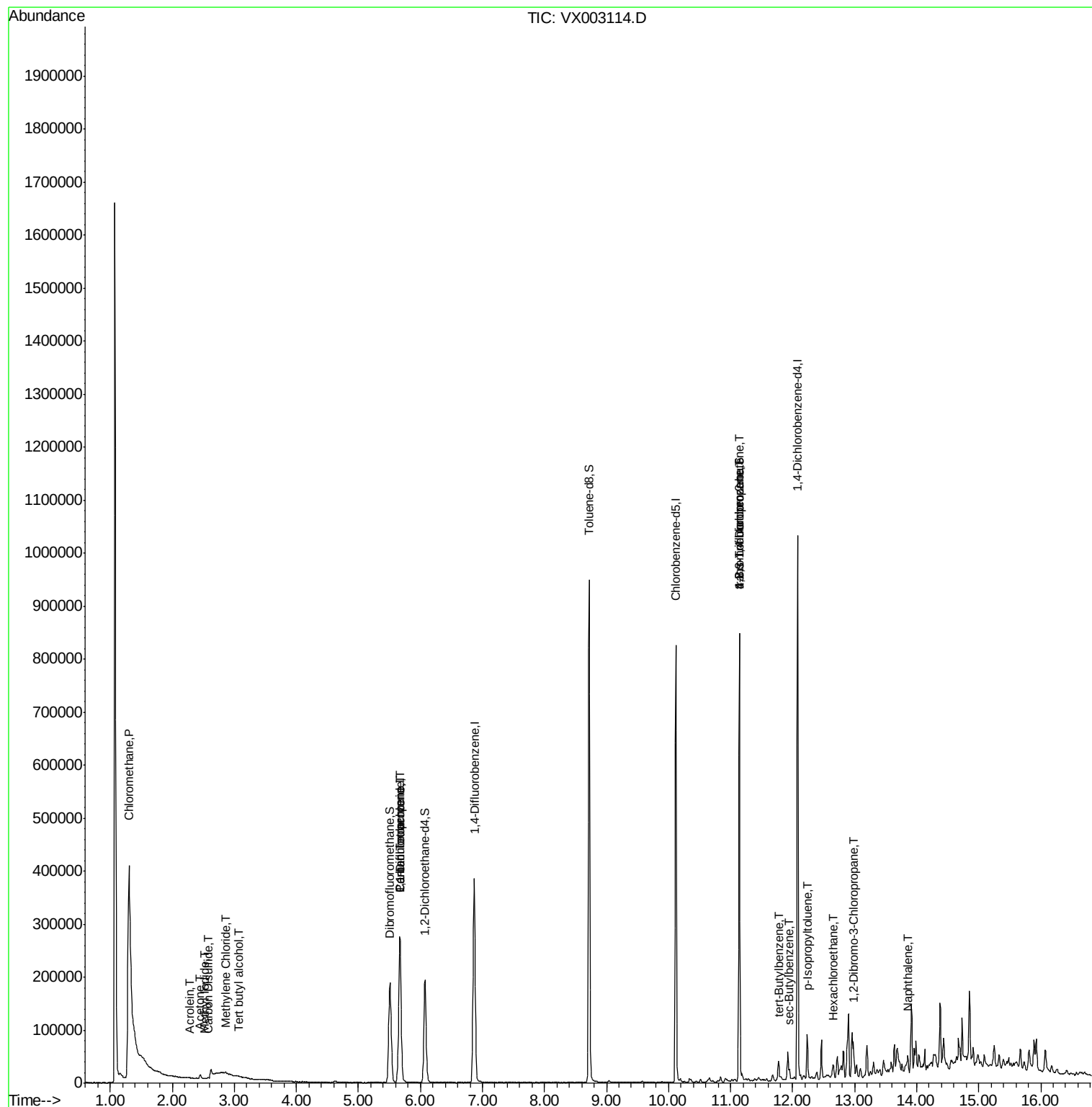
						Qvalue
2) Dichlorodifluoromethane	1.20	85	18	Below Cal	#	43
3) Chloromethane	1.30	50	27769	9.75	ug/l #	43
5) Bromomethane	1.65	94	1316	Below Cal		97
10) Methyl Iodide	2.53	142	921	6.48	ug/l #	94
11) Tert butyl alcohol	3.07	59	1364	1.77	ug/l #	59
13) Acrolein	2.29	56	308	4.94	ug/l #	35
16) Acetone	2.45	43	8454	5.28	ug/l	97
17) Carbon Disulfide	2.58	76	3301	0.45	ug/l #	71
20) Methylene Chloride	2.86	84	973	0.31	ug/l #	68
36) 1,1-Dichloropropene	5.67	75	18622	4.33	ug/l #	51
38) Carbon Tetrachloride	5.67	117	24723	5.23	ug/l #	17
76) 1,2,3-Trichloropropane	11.14	75	101234	25.79	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	101234	73.15	ug/l #	7
83) tert-Butylbenzene	11.77	119	13405	1.11	ug/l	91
85) sec-Butylbenzene	11.95	105	6851	0.47	ug/l #	56
86) p-Isopropyltoluene	12.24	119	36953	2.80	ug/l	98
90) Hexachloroethane	12.66	117	830	0.42	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.99	75	222	0.22	ug/l #	1
95) Naphthalene	13.85	128	2990	0.20	ug/l #	41

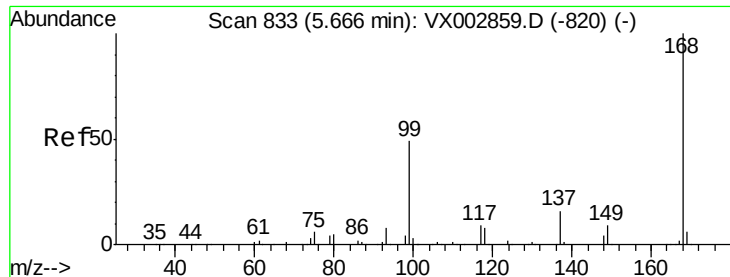
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

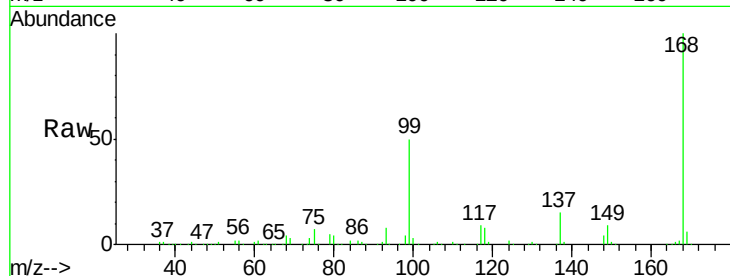
ULMER-PARK-FIELD-BLANK-2-6-27

Tot Ion:168 Resp: 279715

Ion Ratio Lower Upper

168 100

99 50.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

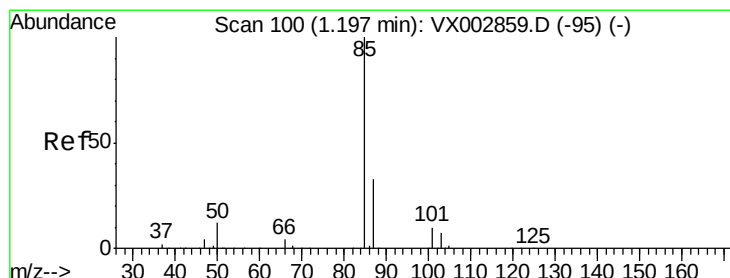
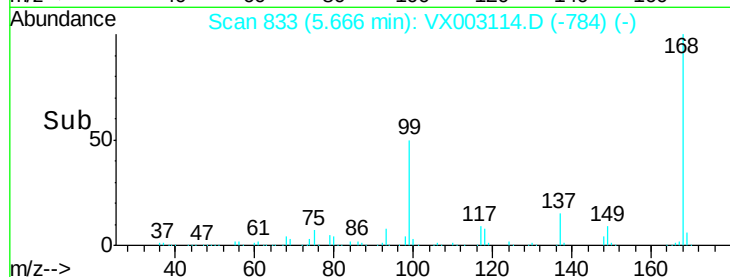
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003114.D

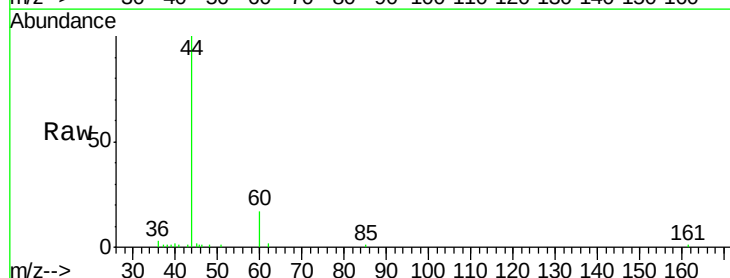
Acq: 01 Jul 2018 08:39

Tgt Ion: 85 Resp: 18

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

50

40

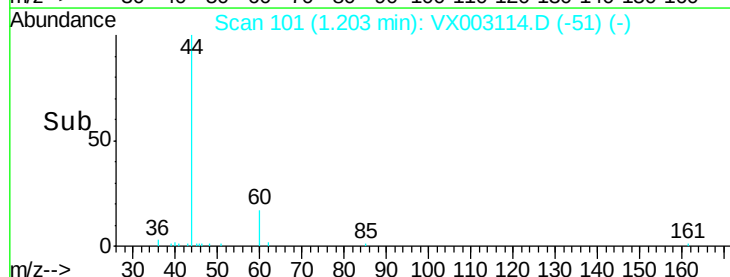
30

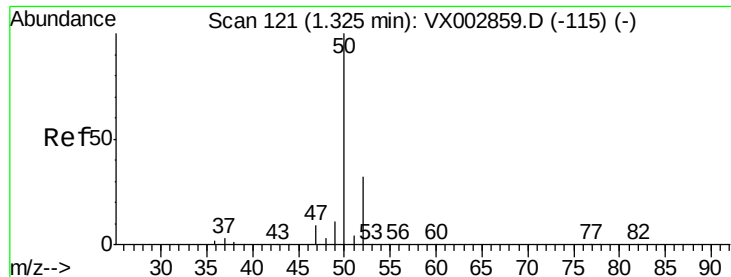
20

10

0

Time--> 1.18 1.19 1.20 1.21 1.22





#3

Chloromethane

Concen: 9.75 ua/l

RT: 1.30 min Scan# 117

Delta R.T. -0.02 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

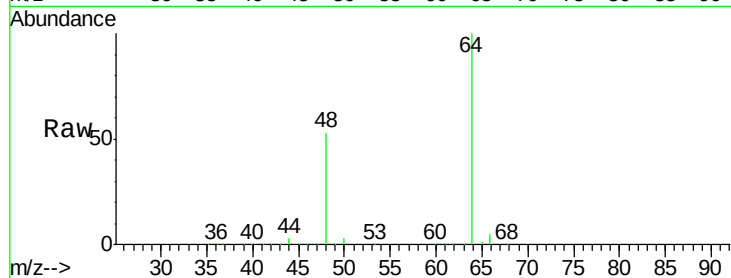
ULMER-PARK-FIELD-BLANK-2-6-27

Tot Ion: 50 Resp: 27769

Ion Ratio Lower Upper

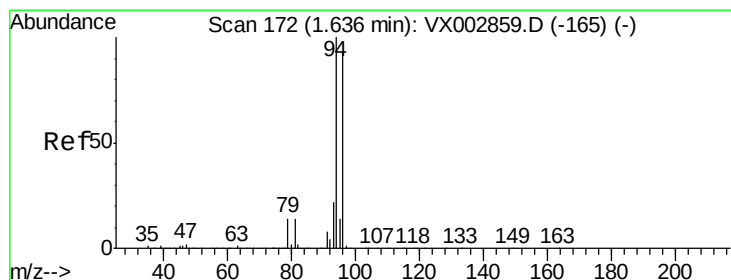
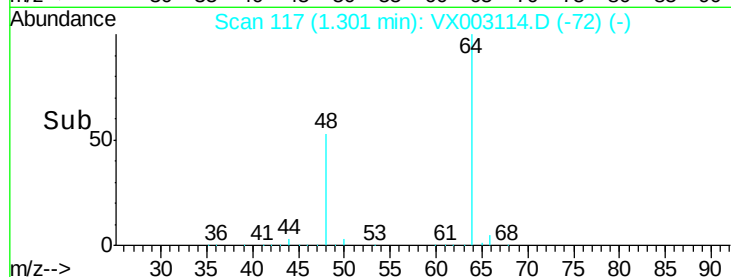
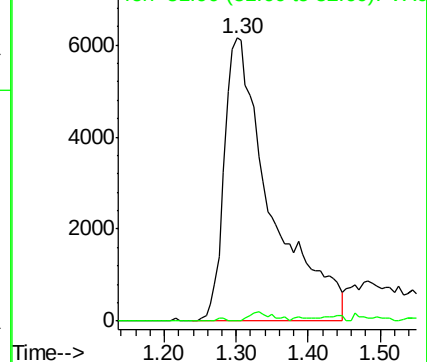
50 100

52 0.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003114.D

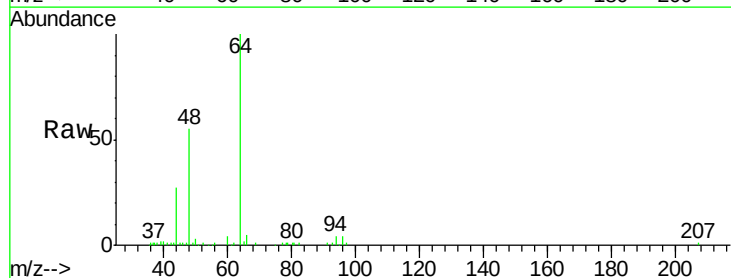
Acq: 01 Jul 2018 08:39

Tgt Ion: 94 Resp: 1316

Ion Ratio Lower Upper

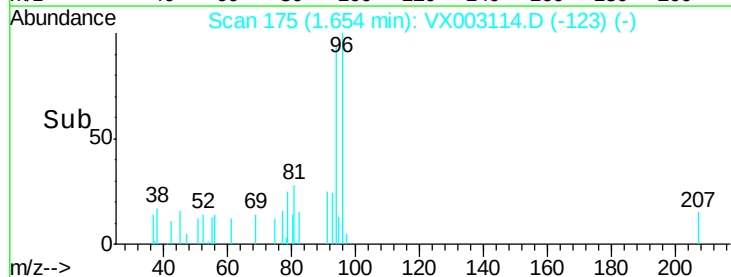
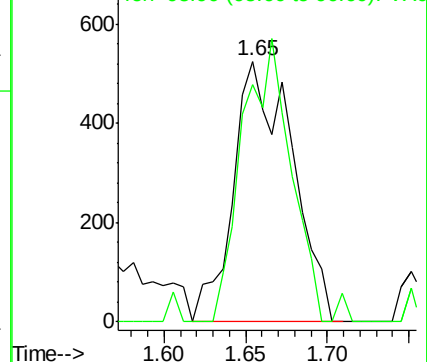
94 100

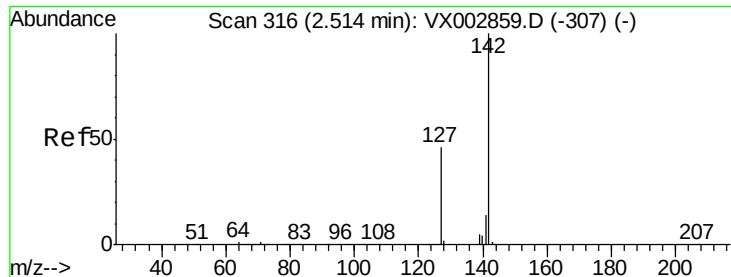
96 91.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

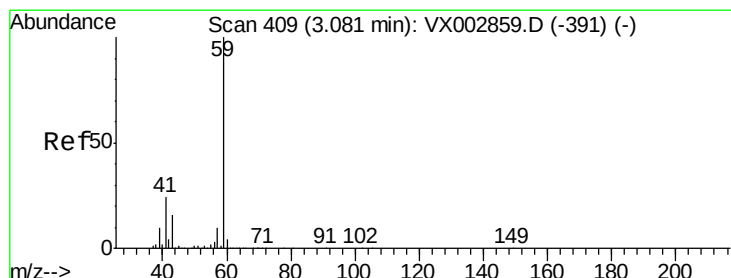
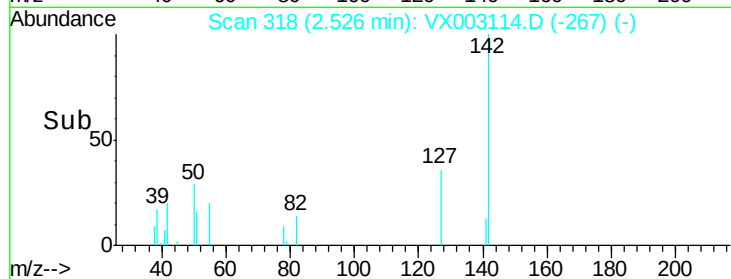
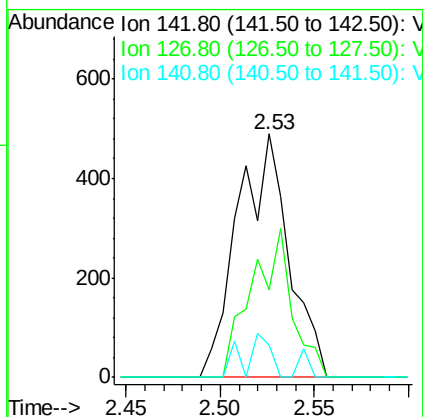
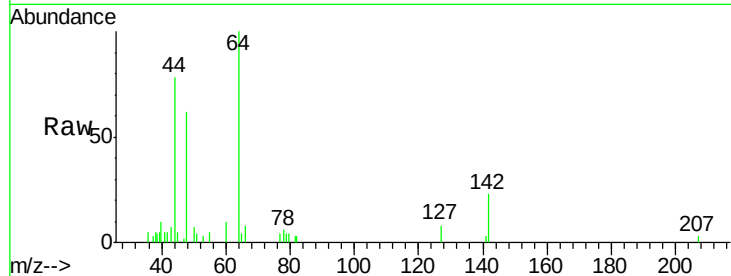




#10
Methyl Iodide
Concen: 6.48 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX003114.D
Acq: 01 Jul 2018 08:39

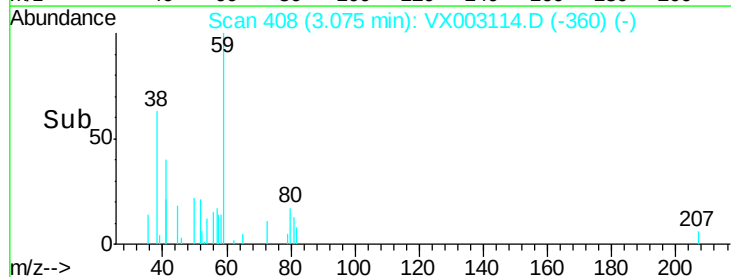
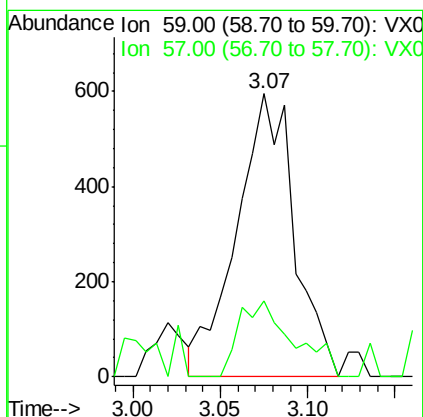
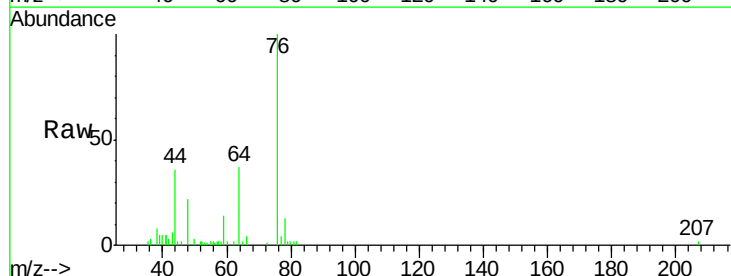
Instrument :
MSVOA_X
ClientSampleId :
ULMER-PARK-FIELD-BLANK-2-6-27

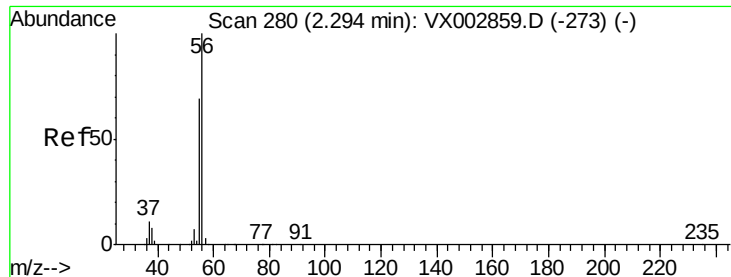
Tot Ion:142 Resp: 921
Ion Ratio Lower Upper
142 100
127 48.2 36.6 55.0
141 9.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.77 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003114.D
Acq: 01 Jul 2018 08:39

Tgt Ion: 59 Resp: 1364
Ion Ratio Lower Upper
59 100
57 25.4 8.2 12.2#





#13

Acrolein

Concen: 4.94 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

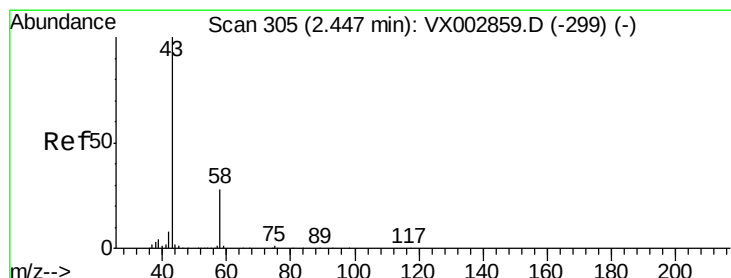
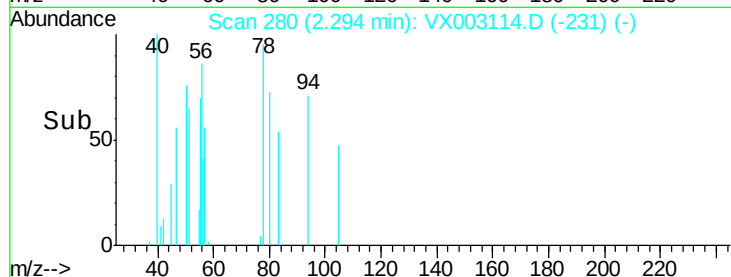
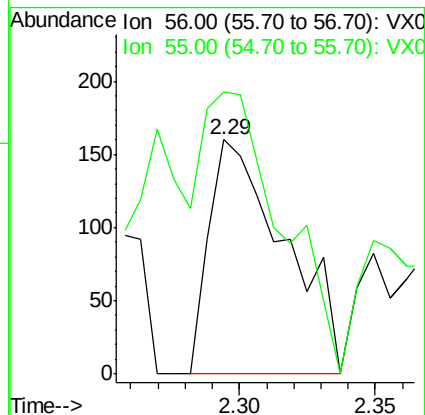
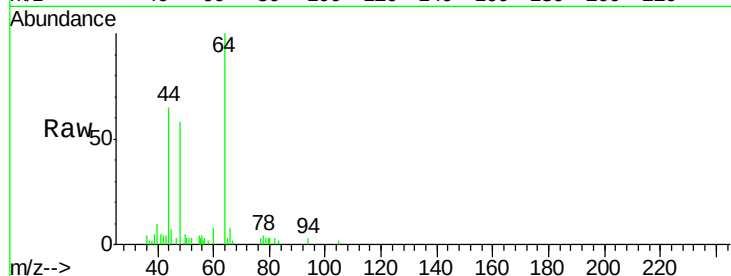
ULMER-PARK-FIELD-BLANK-2-6-27

Tot Ion: 56 Resp: 308

Ion Ratio Lower Upper

56 100

55 124.7 57.0 85.4#



#16

Acetone

Concen: 5.28 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003114.D

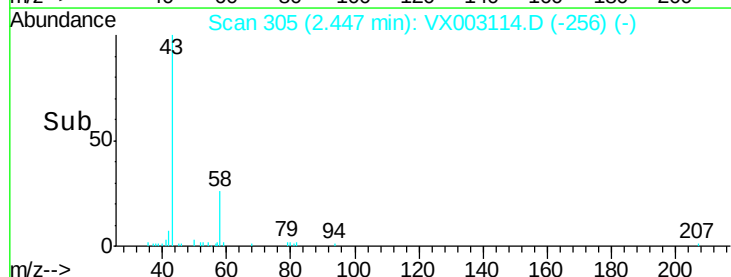
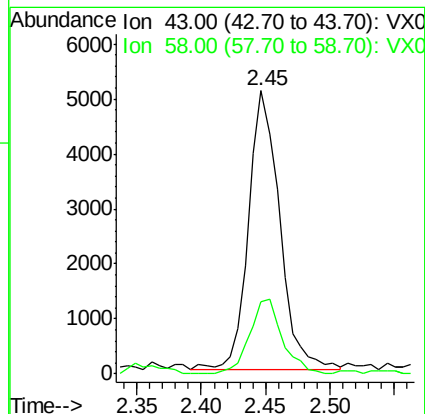
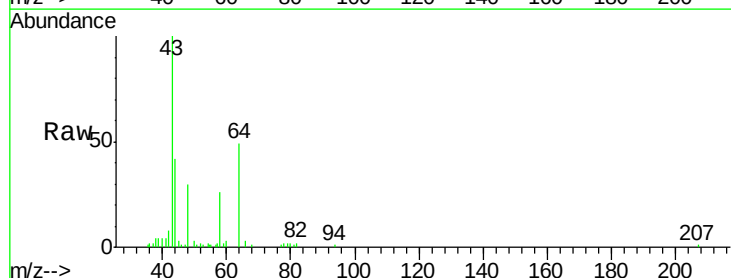
Acq: 01 Jul 2018 08:39

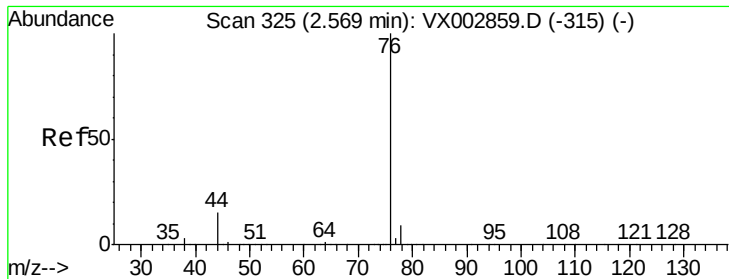
Tgt Ion: 43 Resp: 8454

Ion Ratio Lower Upper

43 100

58 26.0 22.1 33.1





#17

Carbon Disulfide

Concen: 0.45 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

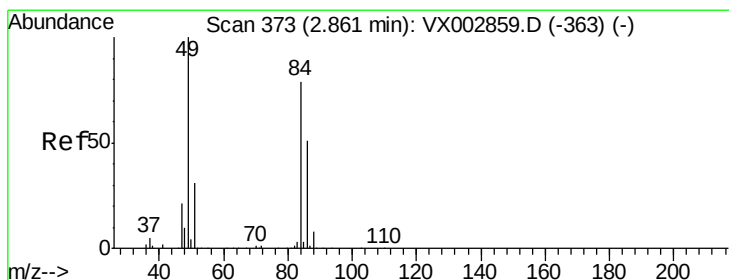
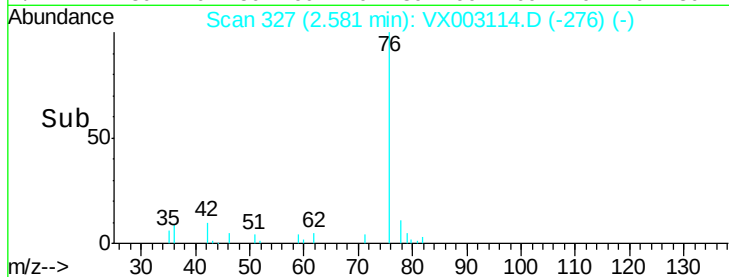
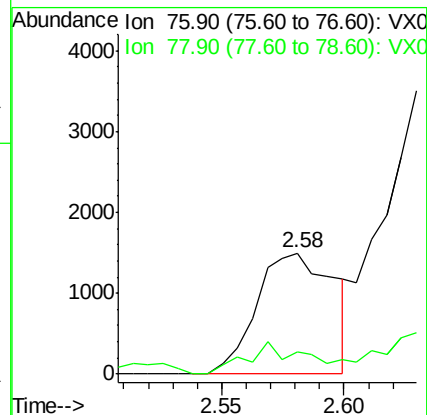
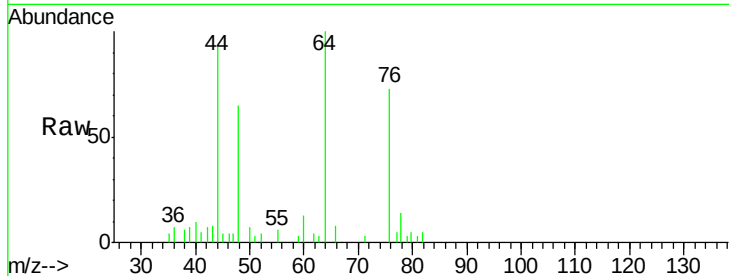
ULMER-PARK-FIELD-BLANK-2-6-27

Tot Ion: 76 Resp: 3301

Ion Ratio Lower Upper

76 100

78 18.9 6.9 10.3#



#20

Methylene Chloride

Concen: 0.31 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Tgt Ion: 84 Resp: 973

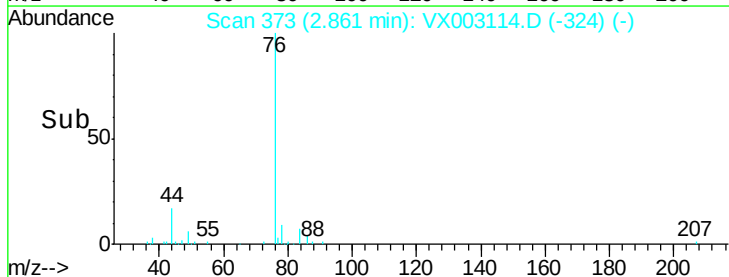
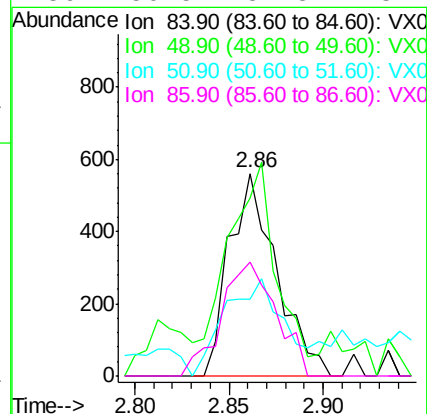
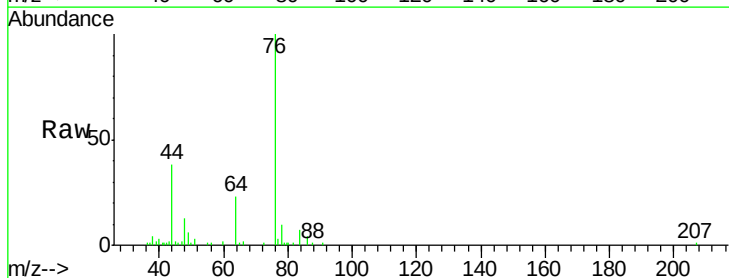
Ion Ratio Lower Upper

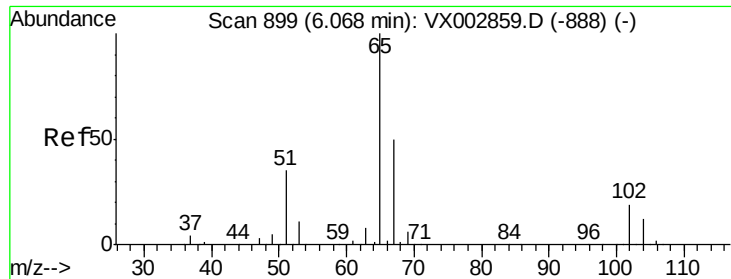
84 100

49 75.4 107.8 161.6#

51 37.8 32.8 49.2

86 56.5 52.5 78.7





#33

1,2-Dichloroethane-d4

Concen: 47.98 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

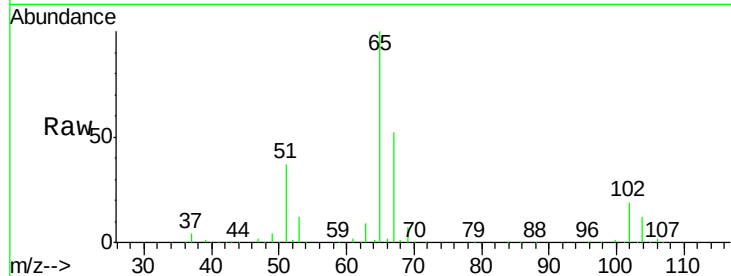
ULMER-PARK-FIELD-BLANK-2-6-27

Tot Ion: 65 Resp: 185492

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

80000

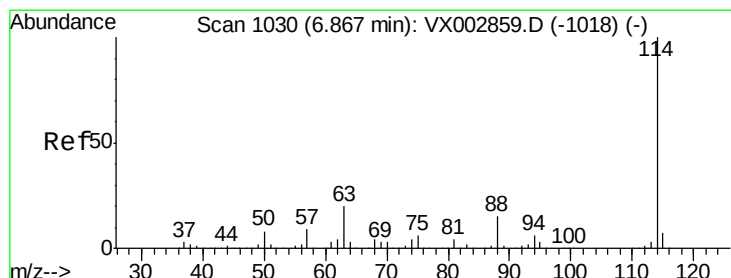
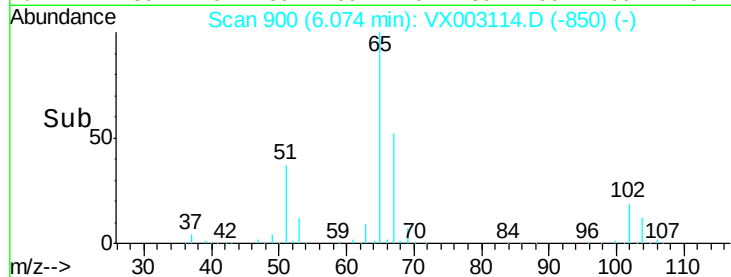
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

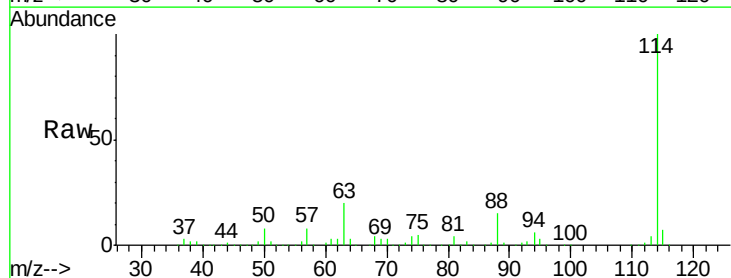
Tgt Ion: 114 Resp: 392538

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.4

88 14.6 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

200000

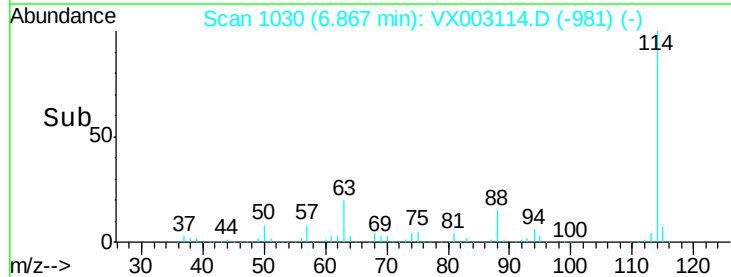
150000

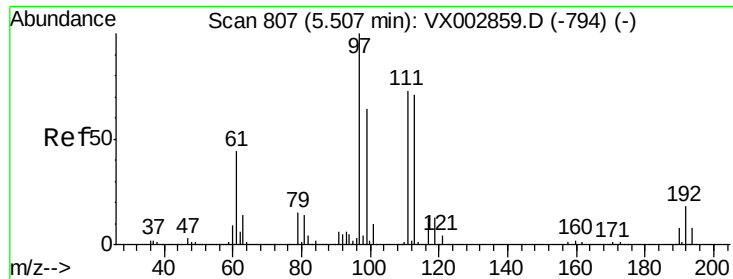
100000

50000

0

Time--> 6.70 6.80 6.90 7.00

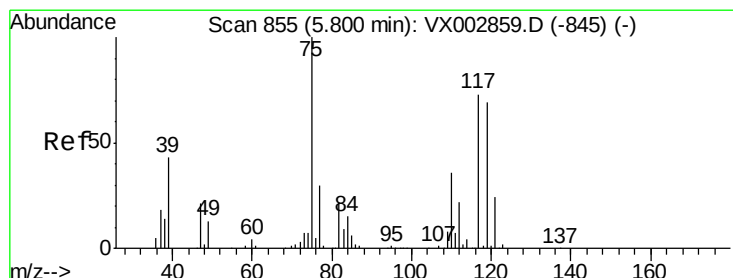
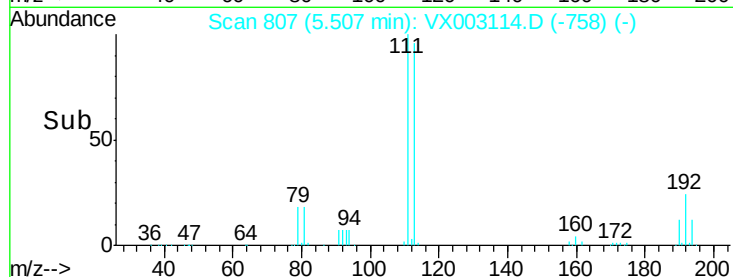
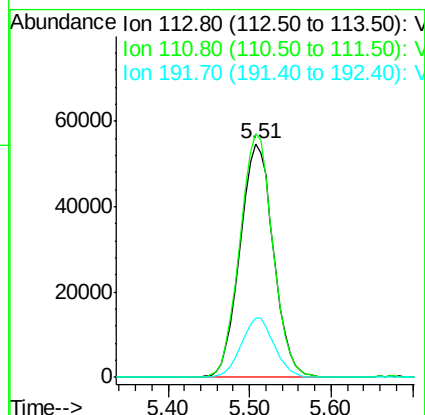
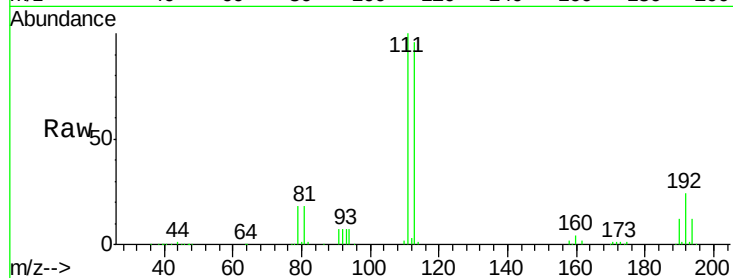




#35
Dibromofluoromethane
Concen: 50.15 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX003114.D
Acq: 01 Jul 2018 08:39

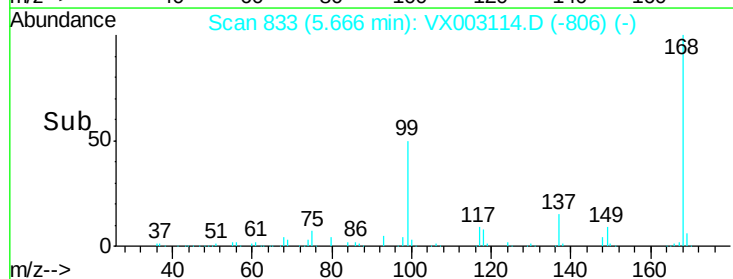
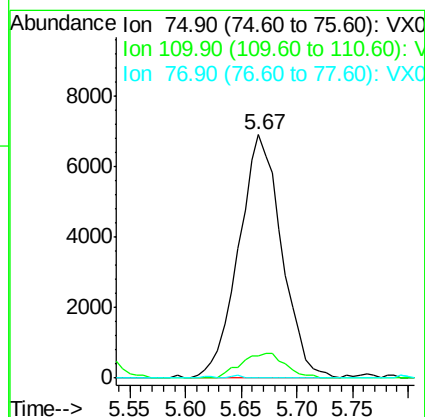
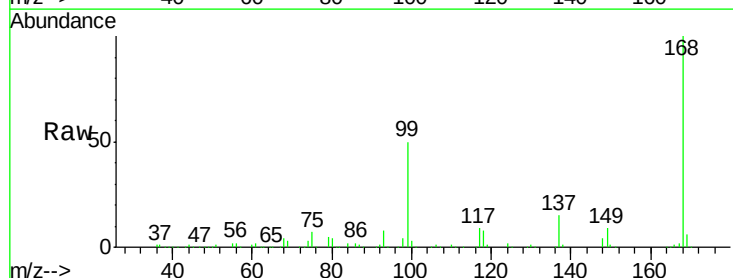
Instrument :
MSVOA_X
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ULMER-PARK-FIELD-BLANK-2-6-27

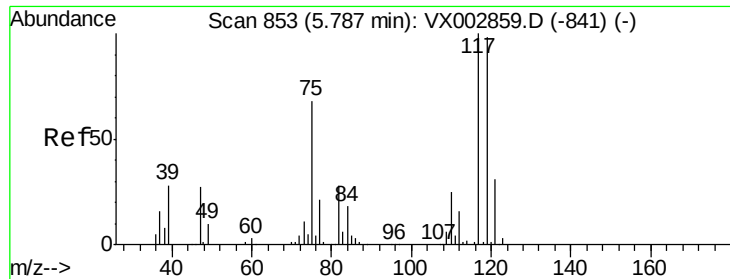
Tot Ion:113 Resp: 155890
Ion Ratio Lower Upper
113 100
111 103.0 81.4 122.0
192 25.2 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.33 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.13 min
Lab File: VX003114.D
Acq: 01 Jul 2018 08:39

Tgt Ion: 75 Resp: 18622
Ion Ratio Lower Upper
75 100
110 10.5 18.1 54.4#
77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.23 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

ULMER-PARK-FIELD-BLANK-2-6-27

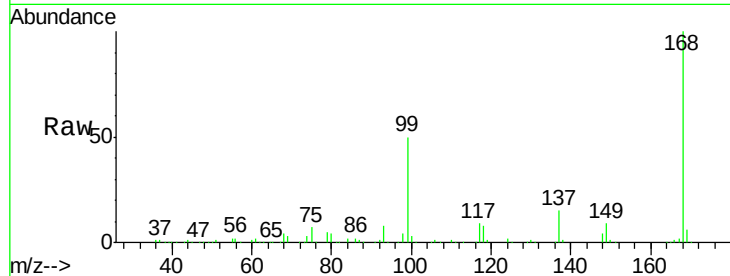
Tot Ion:117 Resp: 24723

Ion Ratio Lower Upper

117 100

119 6.3 77.4 116.0#

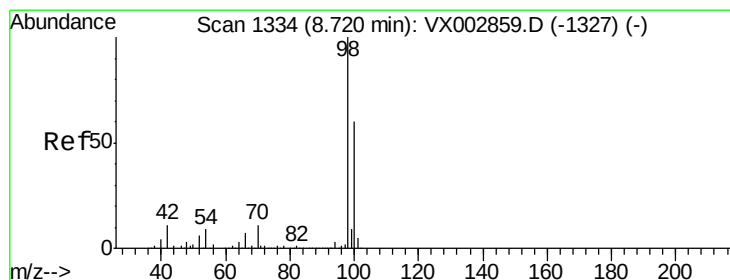
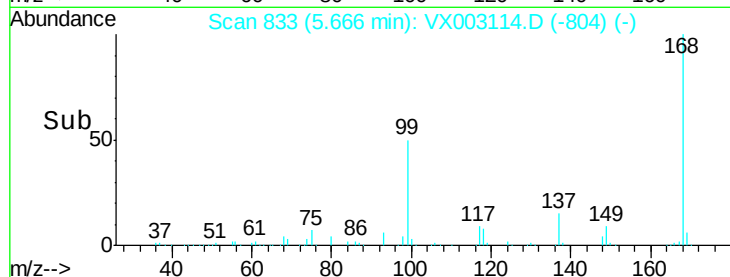
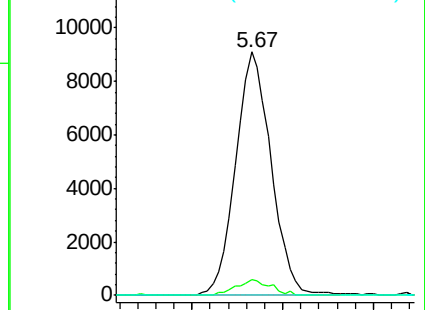
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 48.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003114.D

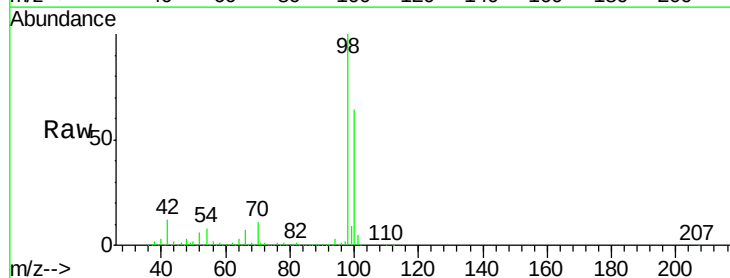
Acq: 01 Jul 2018 08:39

Tgt Ion: 98 Resp: 550856

Ion Ratio Lower Upper

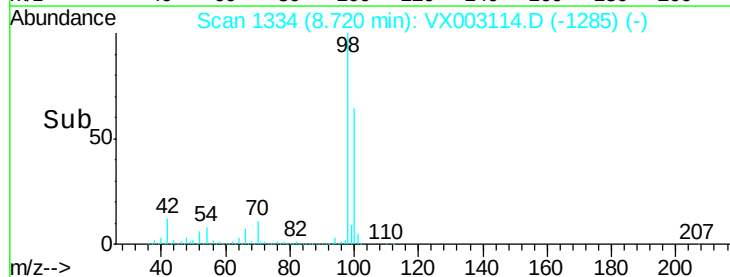
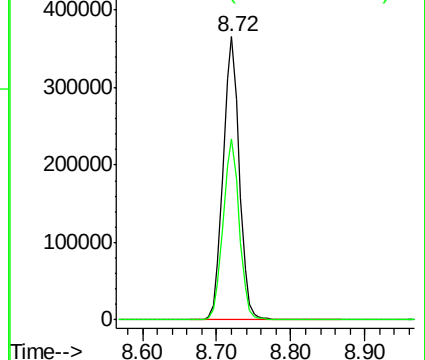
98 100

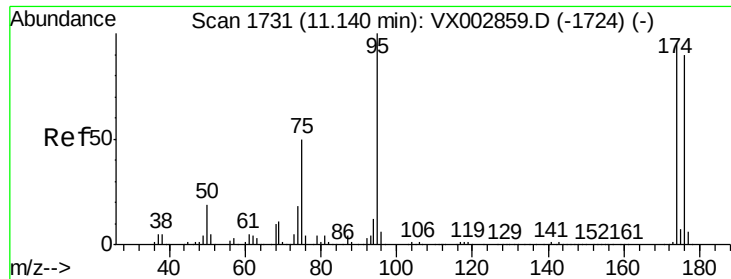
100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

ULMER-PARK-FIELD-BLANK-2-6-27

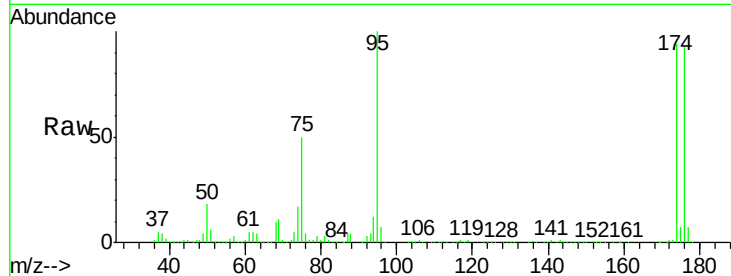
Tot Ion: 95 Resp: 197438

Ion Ratio Lower Upper

95 100

174 97.3 0.0 187.4

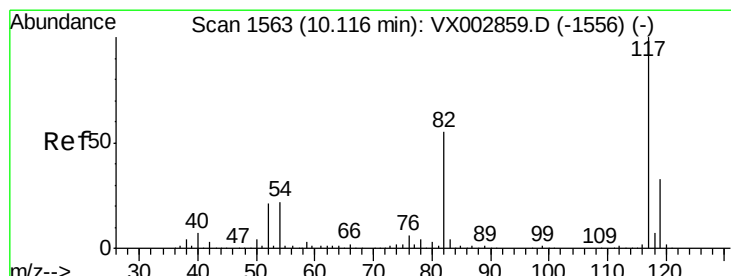
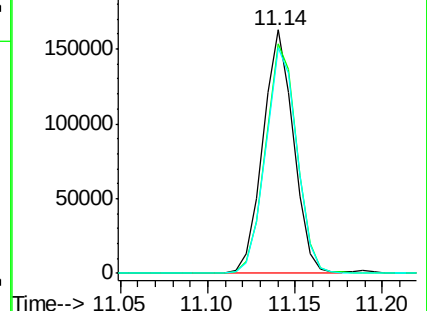
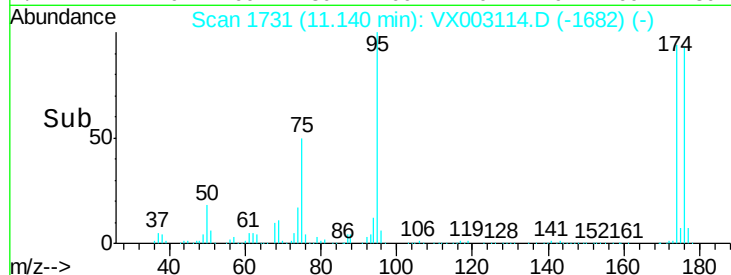
176 95.5 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003114.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003114.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003114.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

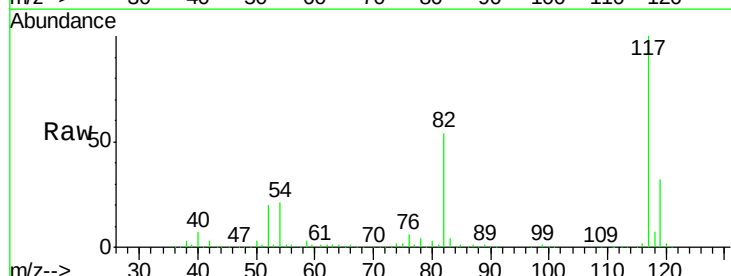
Tgt Ion: 117 Resp: 367260

Ion Ratio Lower Upper

117 100

82 53.6 45.0 67.4

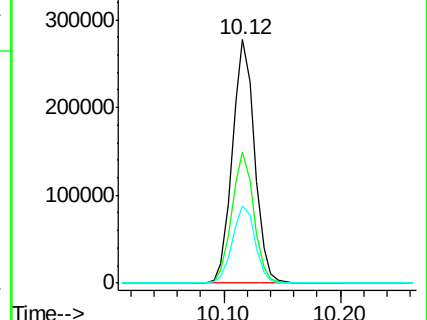
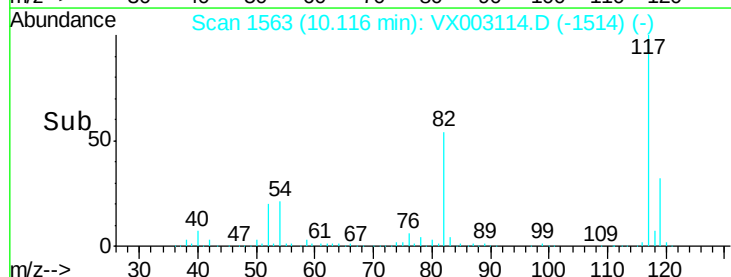
119 31.9 25.8 38.6

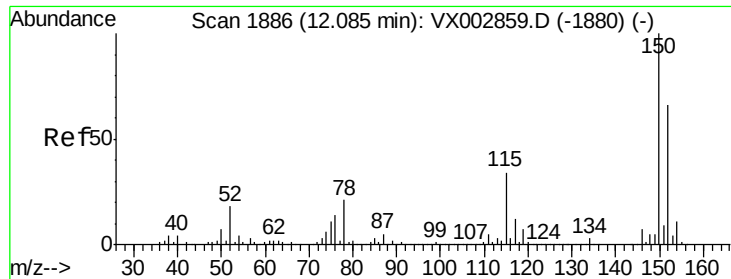


Abundance Ion 116.90 (116.60 to 117.60): VX003114.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003114.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003114.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

ULMER-PARK-FIELD-BLANK-2-6-27

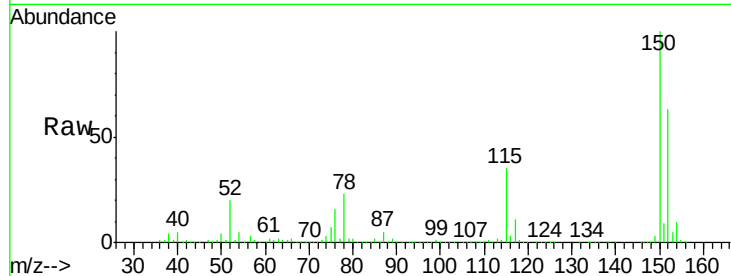
Tot Ion:152 Resp: 216730

Ion Ratio Lower Upper

152 100

115 53.9 40.1 120.2

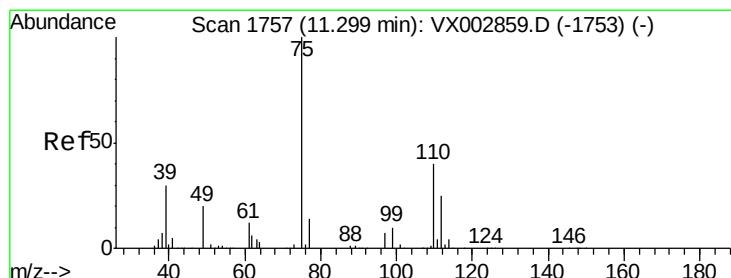
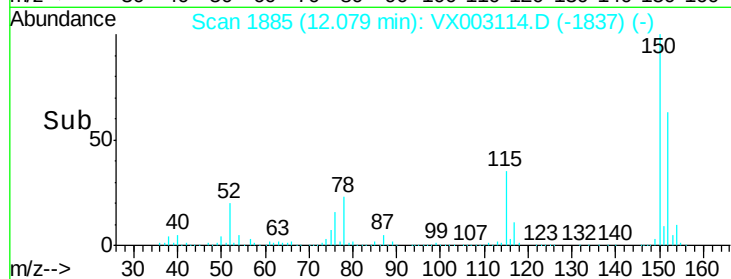
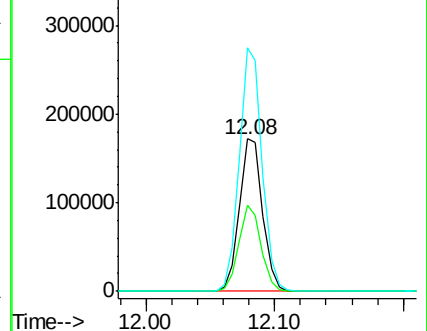
150 156.2 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.79 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003114.D

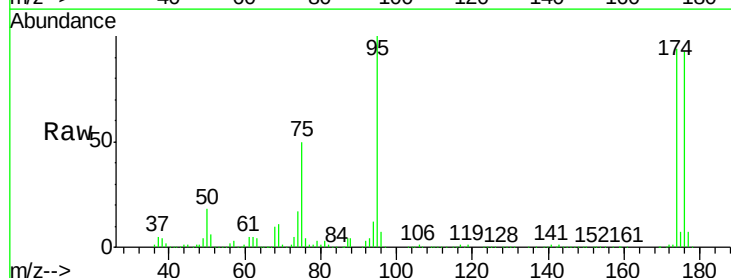
Acq: 01 Jul 2018 08:39

Tgt Ion: 75 Resp: 101234

Ion Ratio Lower Upper

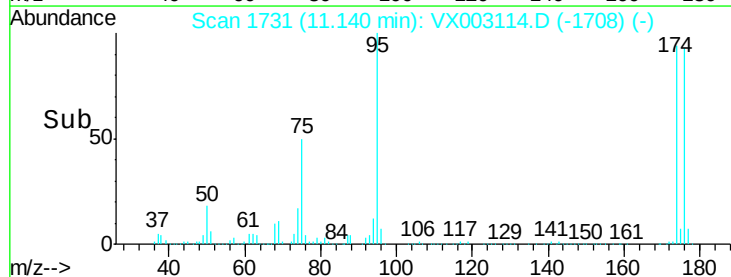
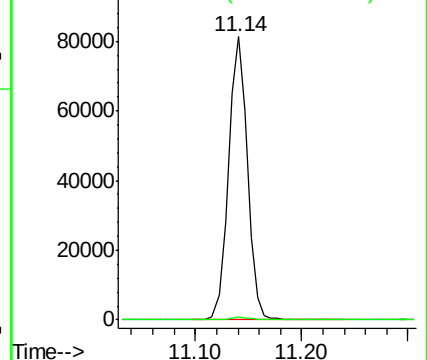
75 100

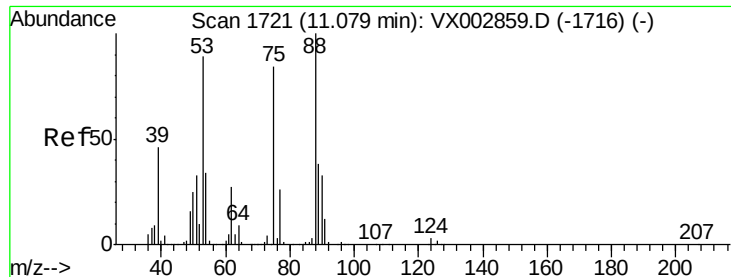
77 1.2 22.8 68.3#



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: 73.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampled :

ULMER-PARK-FIELD-BLANK-2-6-27

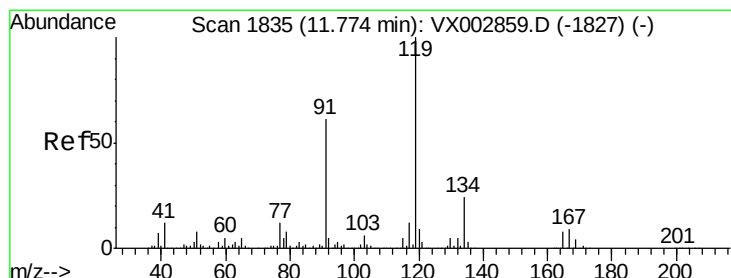
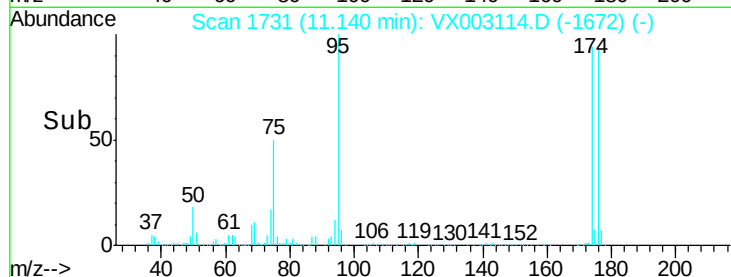
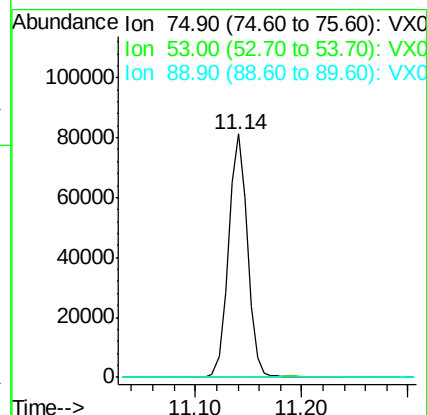
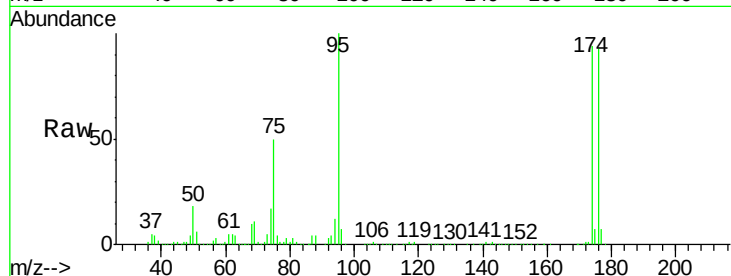
Tot Ion: 75 Resp: 101234

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



#83

tert-Butylbenzene

Concen: 1.11 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

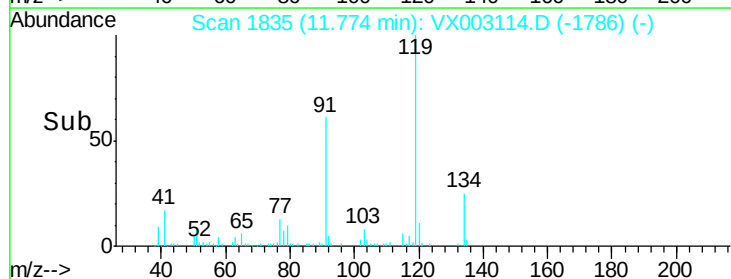
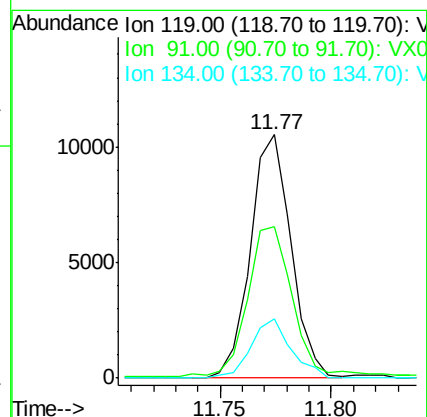
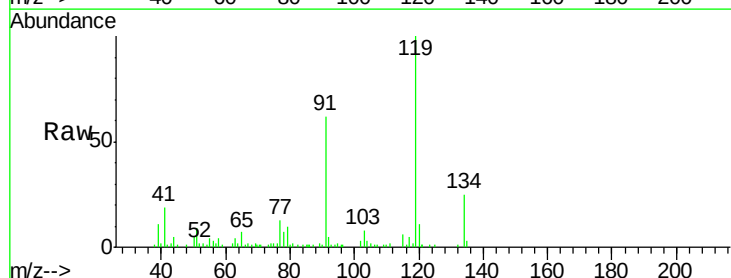
Tgt Ion: 119 Resp: 13405

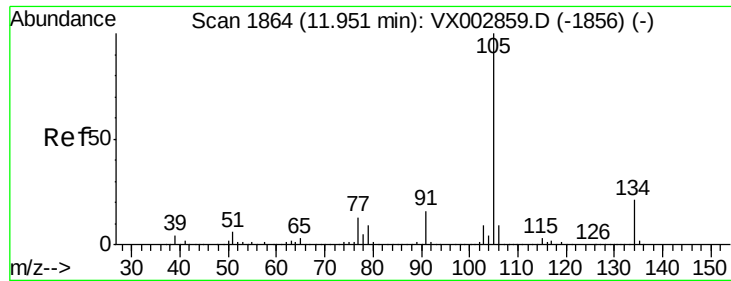
Ion Ratio Lower Upper

119 100

91 69.5 30.3 90.9

134 24.0 11.7 35.1





#85

sec-Butylbenzene

Concen: 0.47 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

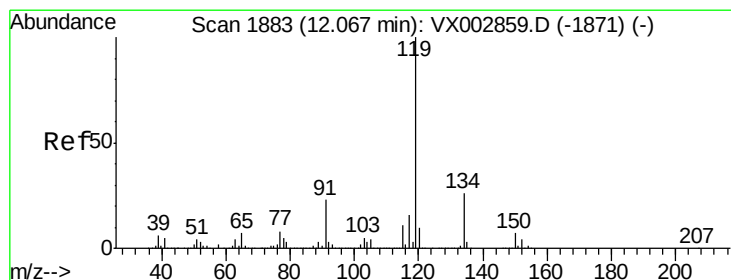
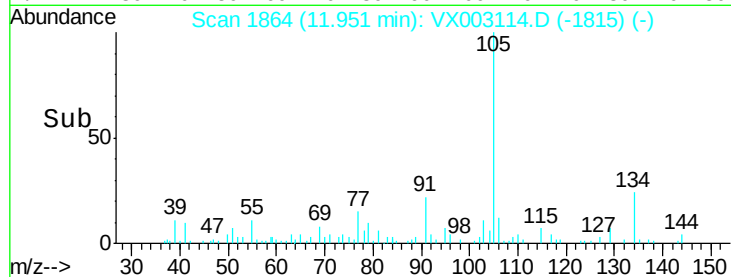
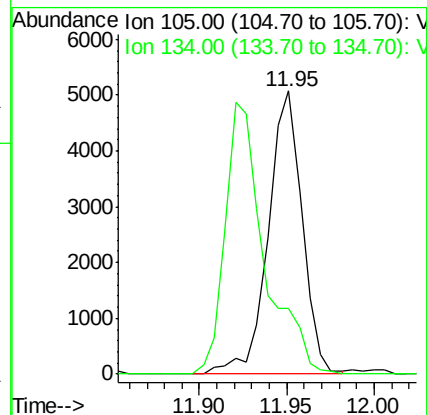
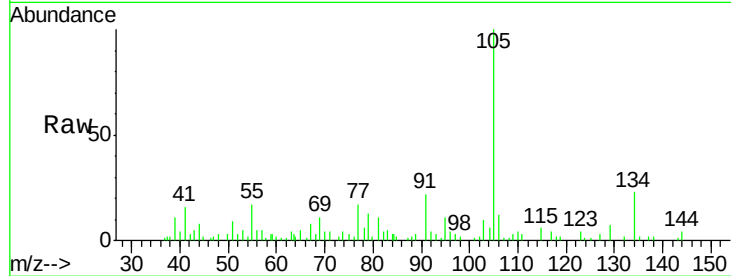
ULMER-PARK-FIELD-BLANK-2-6-27

Tot Ion:105 Resp: 6851

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.1#



#86

p-Isopropyltoluene

Concen: 2.80 ug/l

RT: 12.24 min Scan# 1911

Delta R.T. 0.17 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

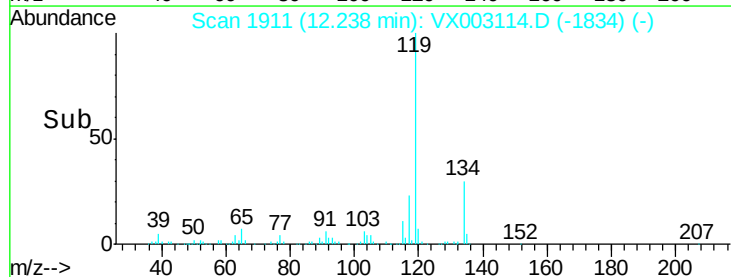
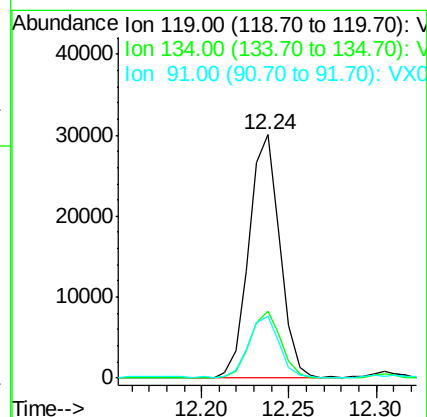
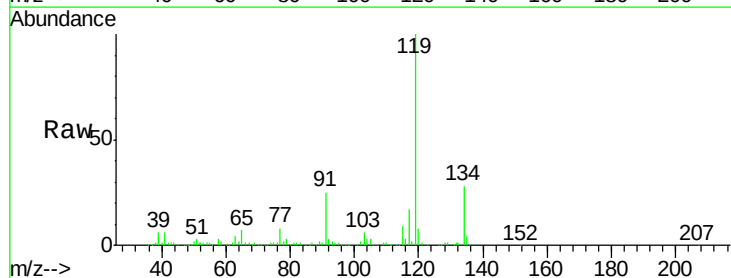
Tgt Ion:119 Resp: 36953

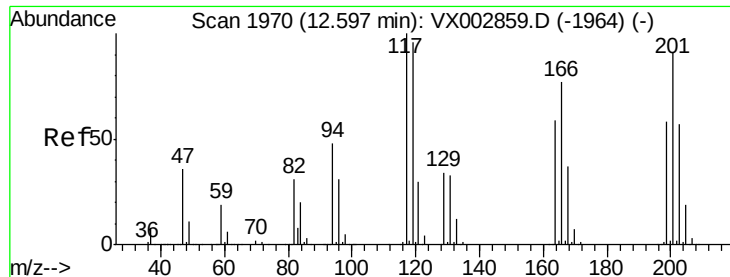
Ion Ratio Lower Upper

119 100

134 27.7 13.4 40.1

91 25.0 11.9 35.7





#90

Hexachloroethane

Concen: 0.42 ug/l

RT: 12.66 min Scan# 1980

Delta R.T. 0.06 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

Instrument :

MSVOA_X

ClientSampleId :

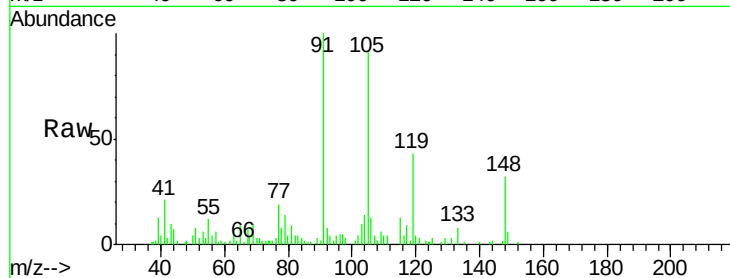
ULMER-PARK-FIELD-BLANK-2-6-27

Tot Ion:117 Resp: 830

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.66

400

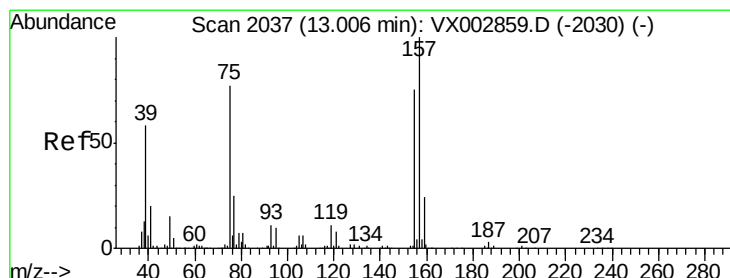
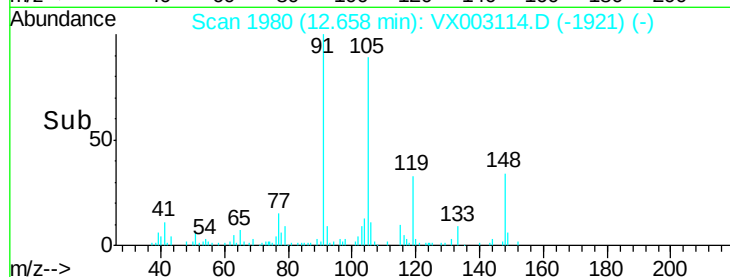
300

200

100

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.22 ug/l

RT: 12.99 min Scan# 2035

Delta R.T. -0.01 min

Lab File: VX003114.D

Acq: 01 Jul 2018 08:39

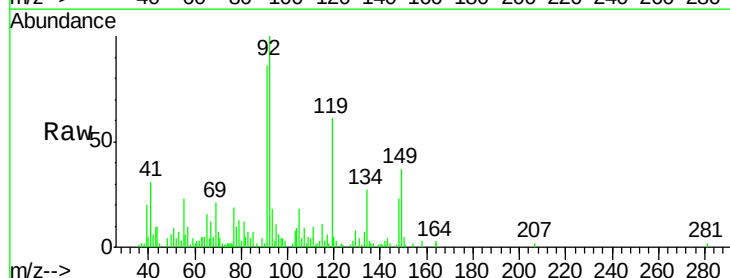
Tgt Ion: 75 Resp: 222

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



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

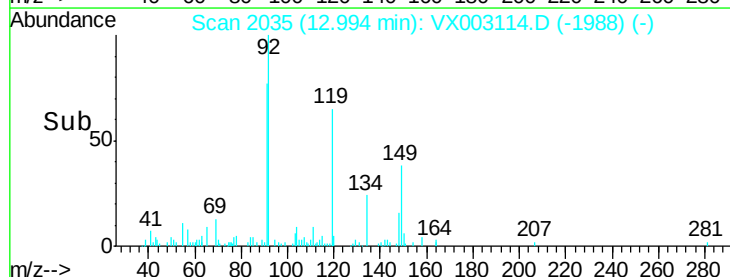
300

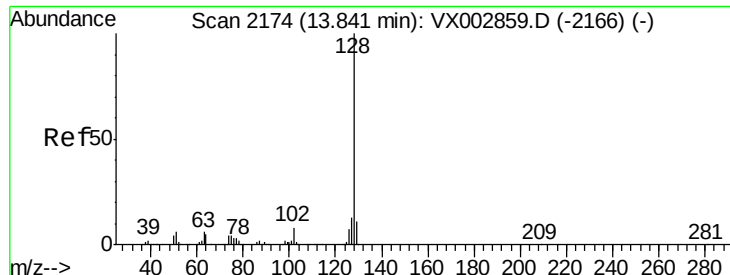
200

100

0

Time-->

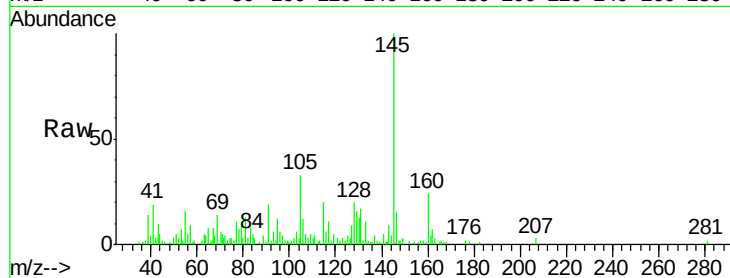




#95
Naphthalene
Concen: 0.20 ug/l
RT: 13.85 min Scan# 2176
Delta R.T. 0.01 min
Lab File: VX003114.D
Acq: 01 Jul 2018 08:39

Instrument :
MSVOA_X
ClientSampleId :
ULMER-PARK-FIELD-BLANK-2-6-27

Tot Ion:128 Resp: 2990
Ion Ratio Lower Upper
128 100
127 21.6 10.4 15.6#
129 50.1 8.6 13.0#



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

