

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042219\
 Data File : VX009089.D
 Acq On : 22 Apr 2019 12:06
 Operator : JC/SP
 Sample : K2488-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Apr 23 02:32:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	245380	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	394456	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	341940	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144527	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	160464	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
35) Dibromofluoromethane	5.50	113	118780	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
50) Toluene-d8	8.71	98	493160	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
62) 4-Bromofluorobenzene	11.13	95	161963	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	

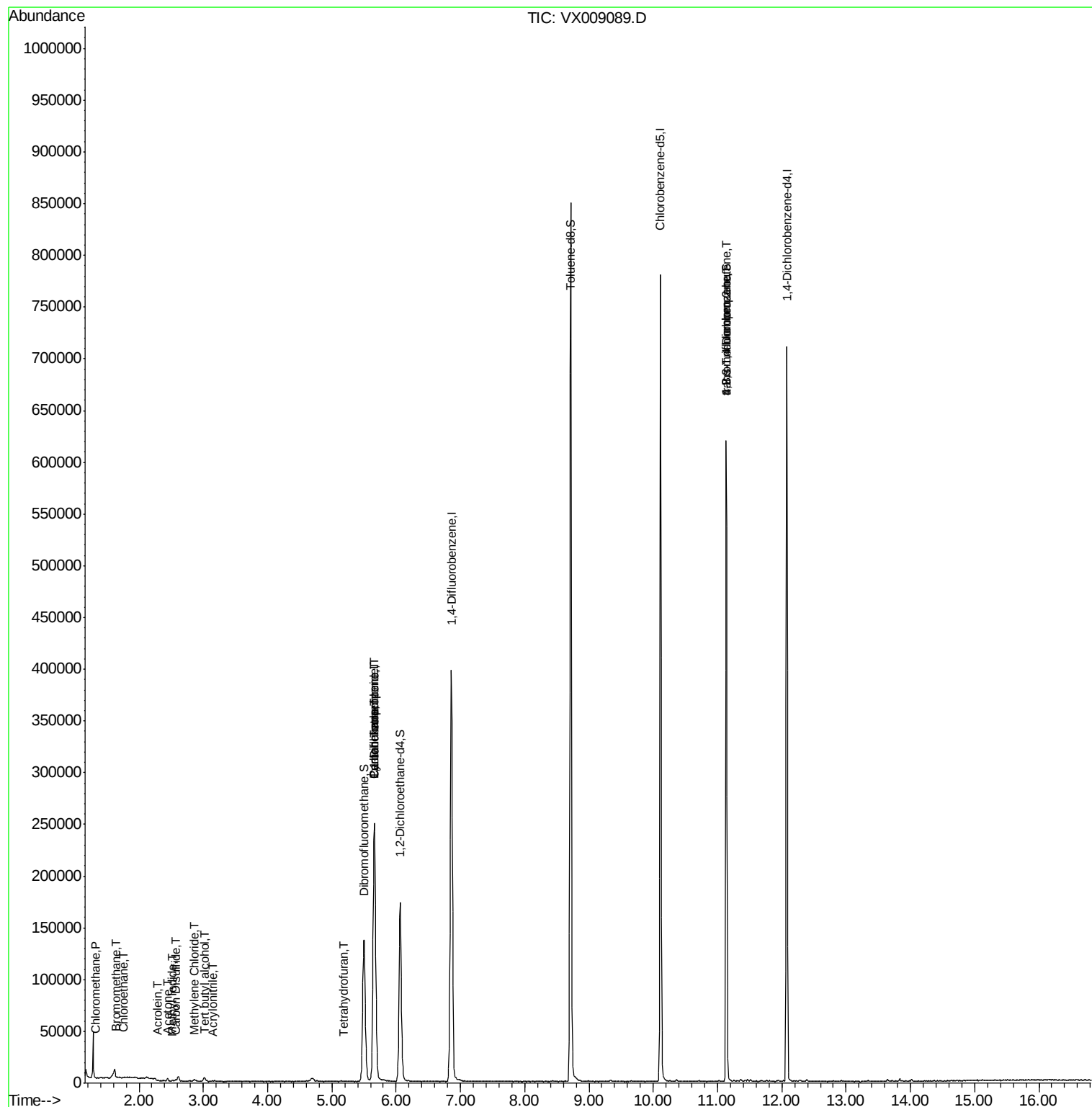
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	746	0.215	ug/l #	75
5) Bromomethane	1.64	94	389	4.018	ug/l #	75
6) Chloroethane	1.75	64	1157	0.583	ug/l #	44
10) Methyl Iodide	2.52	142	606	4.615	ug/l #	98
11) Tert butyl alcohol	3.01	59	2189	2.852	ug/l #	80
13) Acrolein	2.29	56	399	0.602	ug/l #	29
15) Acrylonitrile	3.15	53	395	0.203	ug/l #	36
16) Acetone	2.45	43	2603	1.452	ug/l	99
17) Carbon Disulfide	2.57	76	1588	1.453	ug/l #	75
20) Methylene Chloride	2.85	84	758	0.247	ug/l #	90
28) Bromochloromethane	5.00	49	87	Below Cal	#	21
29) Tetrahydrofuran	5.18	42	930	0.485	ug/l #	38
31) Cyclohexane	5.66	56	5812	1.055	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	19946	4.889	ug/l #	49
38) Carbon Tetrachloride	5.67	117	23372	6.758	ug/l #	18
76) 1,2,3-Trichloropropane	11.13	75	81708	23.153	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	81708	59.440	ug/l #	11

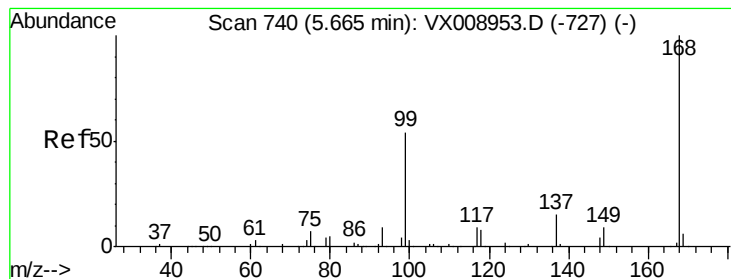
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009089.D

Acq: 22 Apr 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

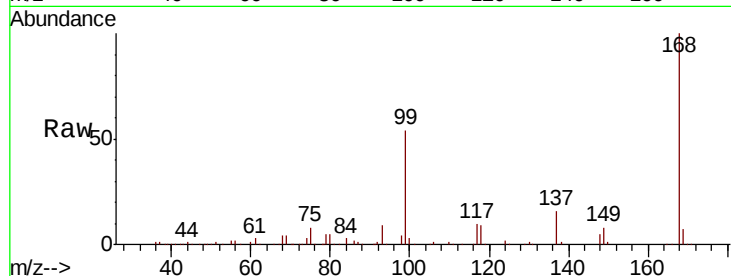
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 245380

Ion Ratio Lower Upper

168 100

99 54.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

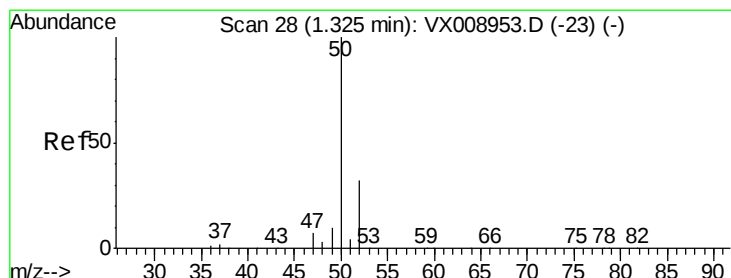
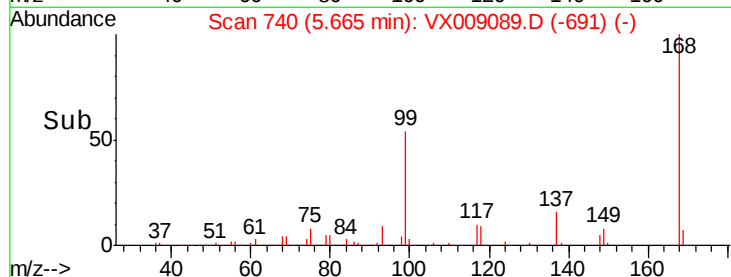
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.215 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009089.D

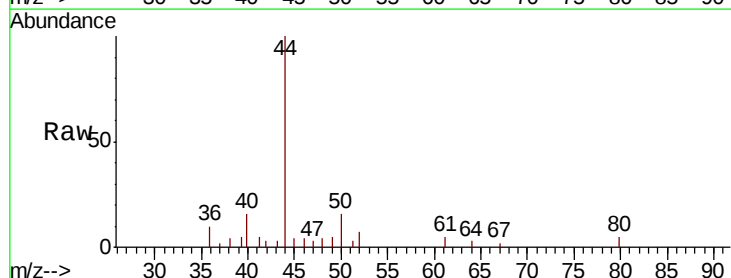
Acq: 22 Apr 2019 12:06

Tgt Ion: 50 Resp: 746

Ion Ratio Lower Upper

50 100

52 45.7 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

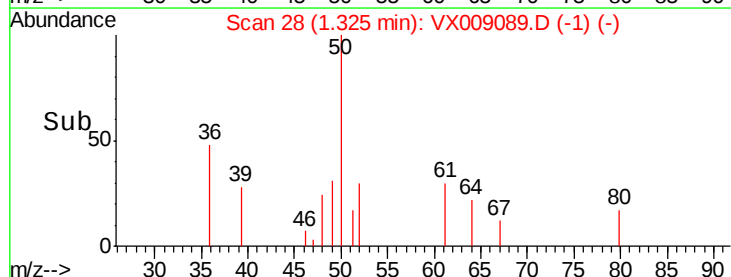
200

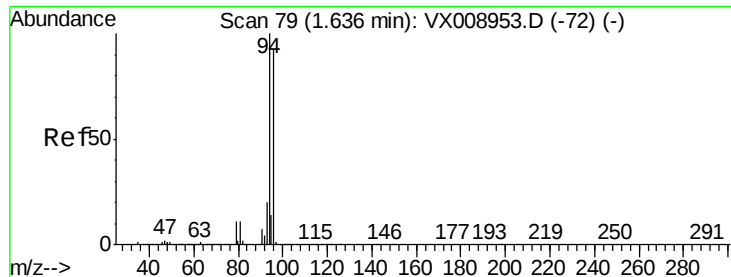
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 4.018 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009089.D

Acq: 22 Apr 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

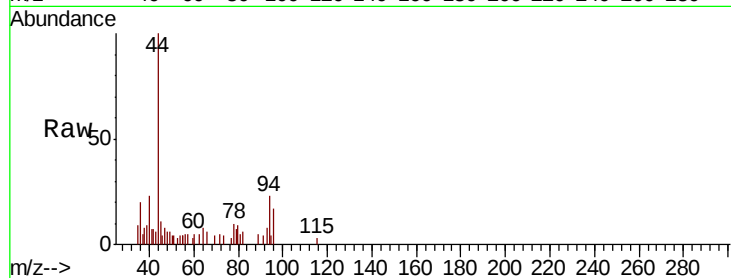
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 94 Resp: 389

Ion Ratio Lower Upper

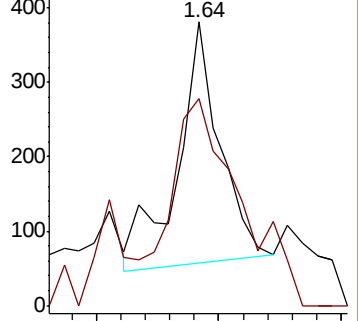
94 100

96 68.3 73.9 110.9#

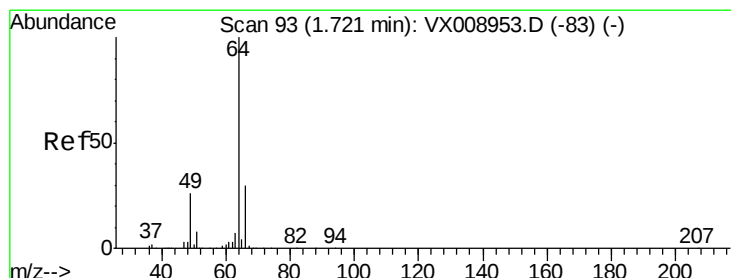
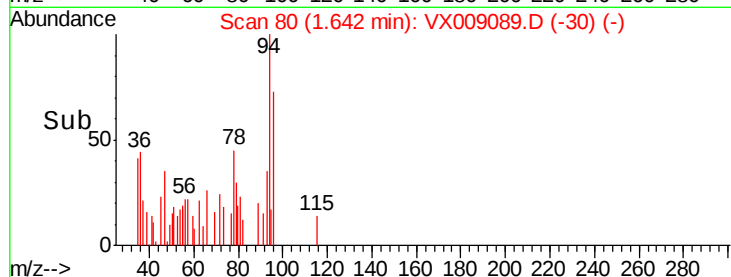


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.583 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.03 min

Lab File: VX009089.D

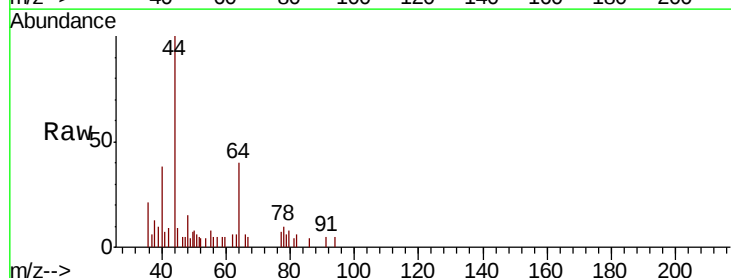
Acq: 22 Apr 2019 12:06

Tgt Ion: 64 Resp: 1157

Ion Ratio Lower Upper

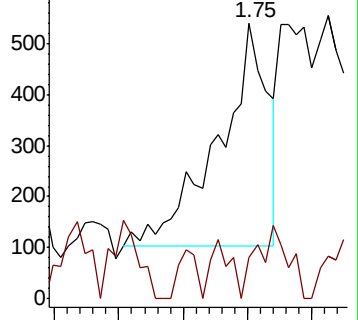
64 100

66 0.0 24.2 36.2#

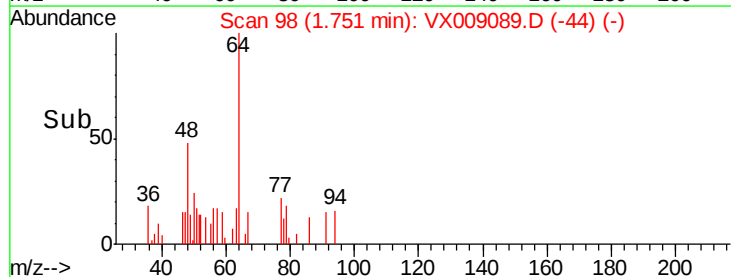


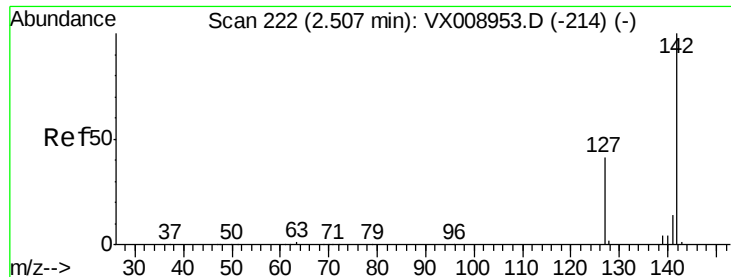
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

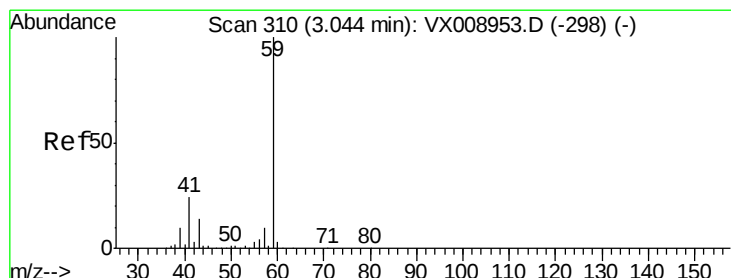
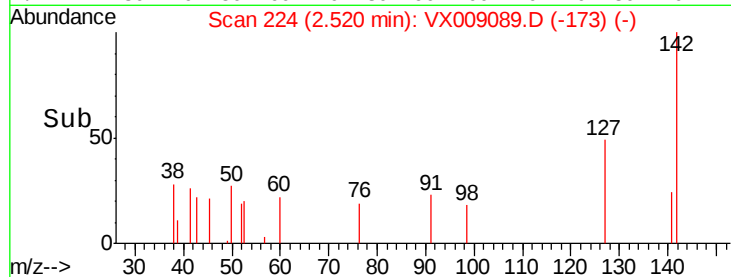
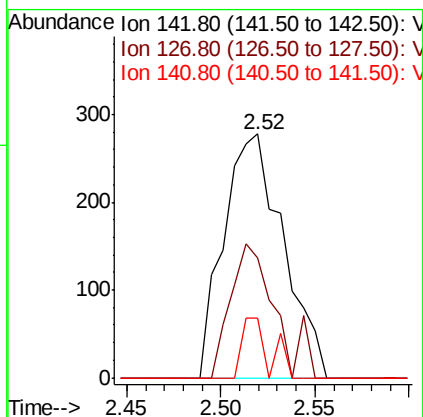
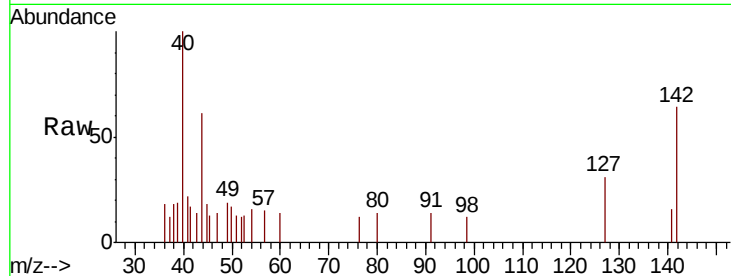




#10
Methvl Iodide
Concen: 4.615 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009089.D
Acq: 22 Apr 2019 12:06

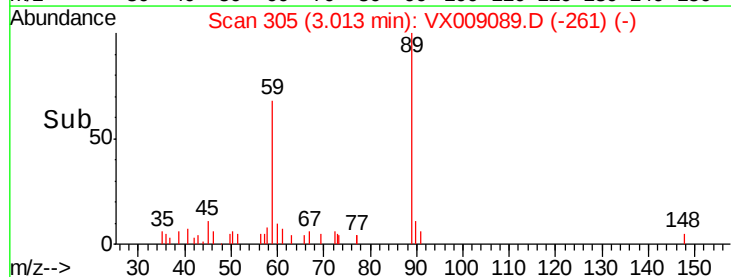
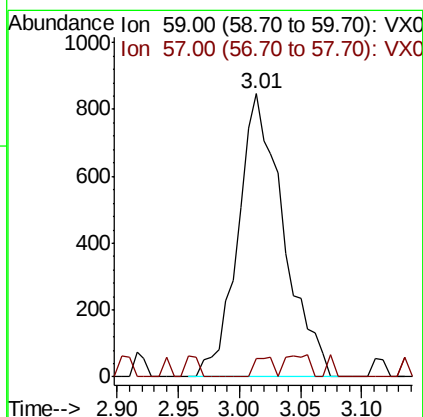
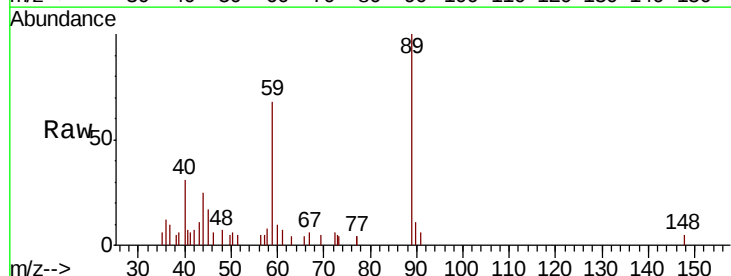
Instrument :
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STORAGE-BLANK-SOIL-REF-6

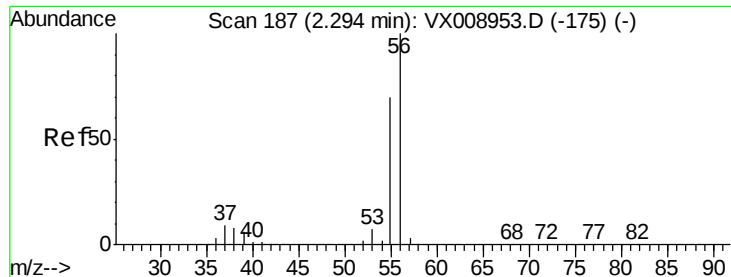
Tot Ion:142 Resp: 606
Ion Ratio Lower Upper
142 100
127 41.4 32.8 49.2
141 11.2 11.4 17.2#



#11
Tert butyl alcohol
Concen: 2.852 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.03 min
Lab File: VX009089.D
Acq: 22 Apr 2019 12:06

Tgt Ion: 59 Resp: 2189
Ion Ratio Lower Upper
59 100
57 2.9 8.4 12.6#





#13

Acrolein

Concen: 0.602 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009089.D

Acq: 22 Apr 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

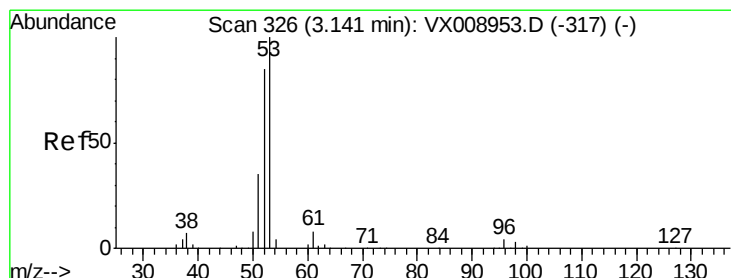
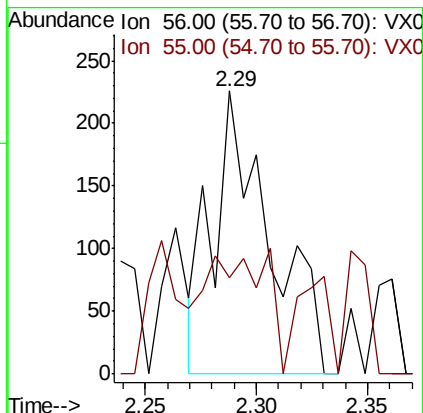
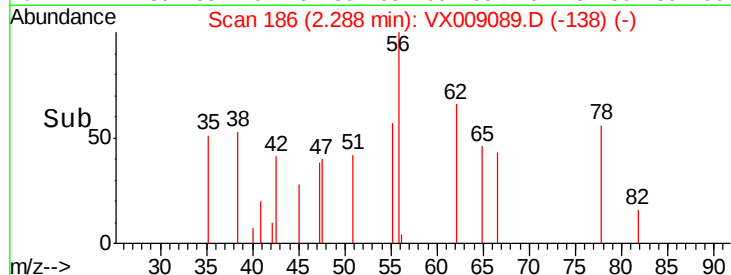
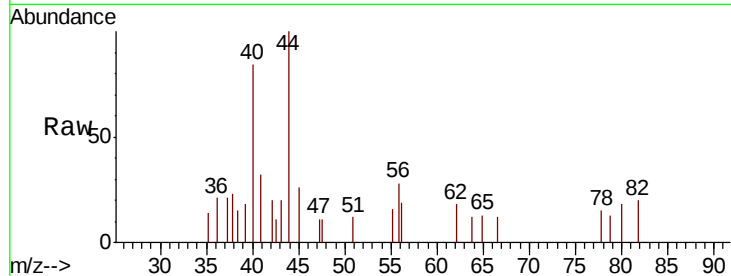
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 56 Resp: 399

Ion Ratio Lower Upper

56 100

55 12.5 56.6 84.8#



#15

Acrylonitrile

Concen: 0.203 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009089.D

Acq: 22 Apr 2019 12:06

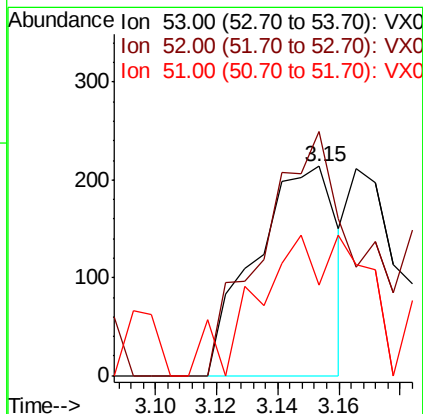
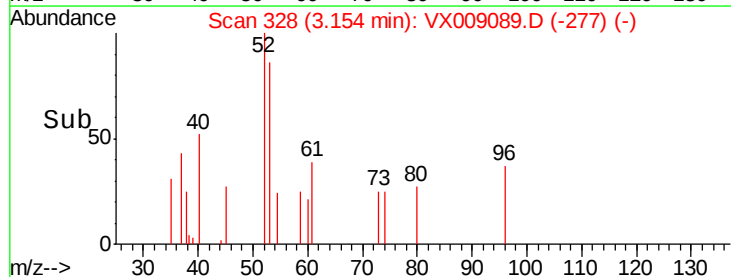
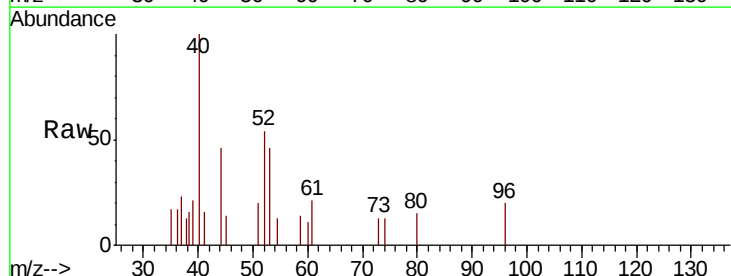
Tgt Ion: 53 Resp: 395

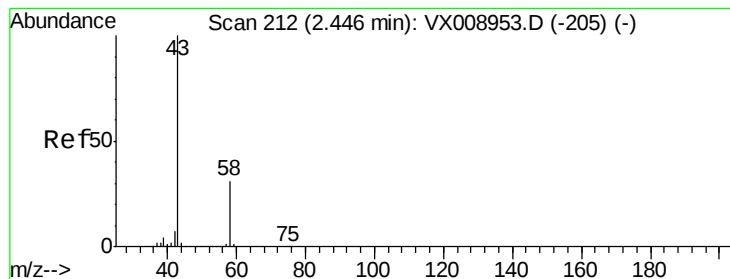
Ion Ratio Lower Upper

53 100

52 154.7 66.6 100.0#

51 52.9 28.3 42.5#





#16

Acetone

Concen: 1.452 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009089.D

Acq: 22 Apr 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

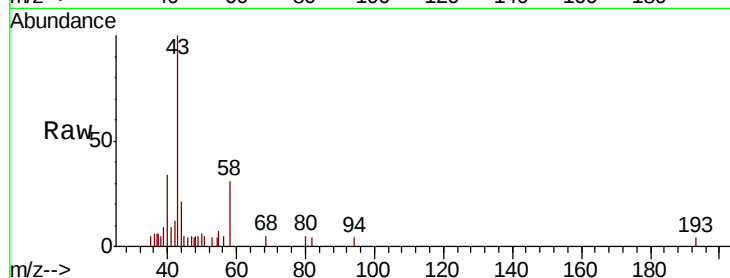
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 2603

Ion Ratio Lower Upper

43 100

58 31.4 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

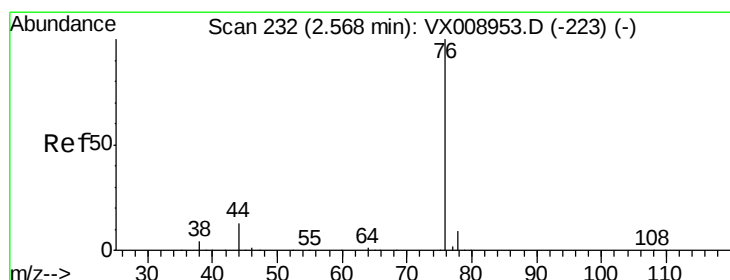
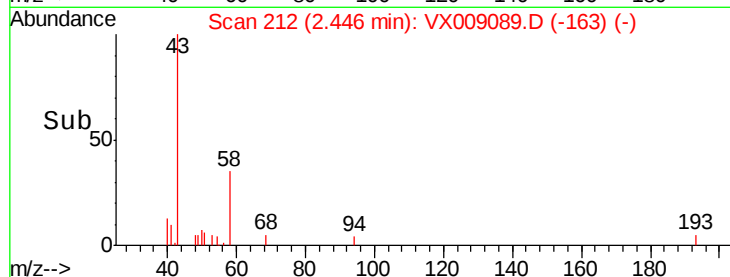
1500

1000

500

0

Time--> 2.35 2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: 1.453 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009089.D

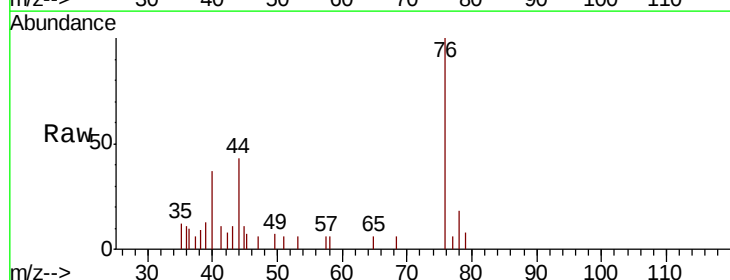
Acq: 22 Apr 2019 12:06

Tgt Ion: 76 Resp: 1588

Ion Ratio Lower Upper

76 100

78 18.1 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1000

800

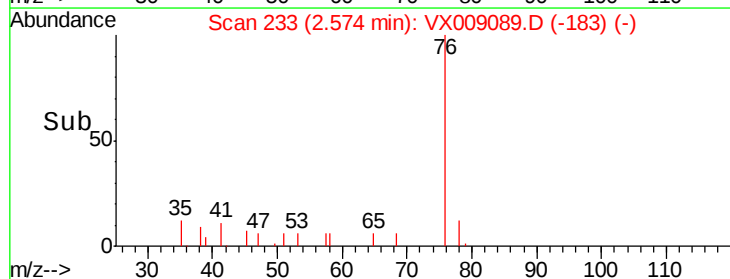
600

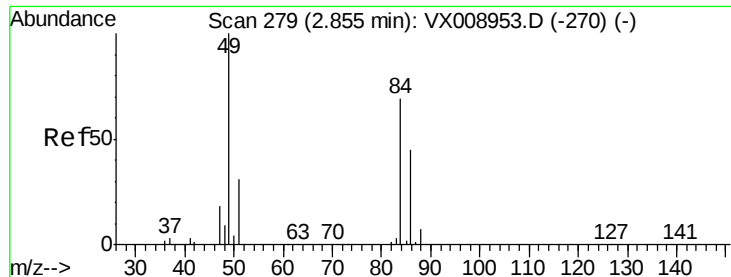
400

200

0

Time--> 2.50 2.55 2.60

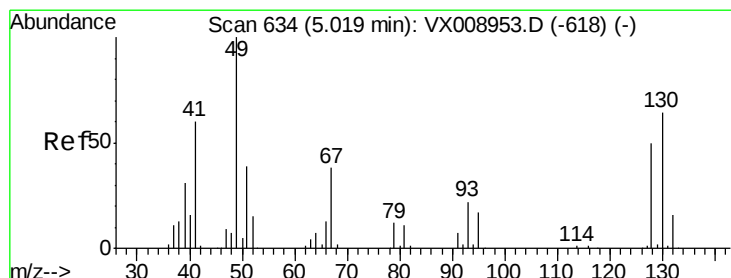
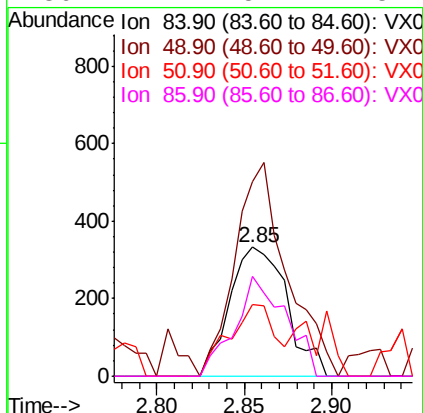
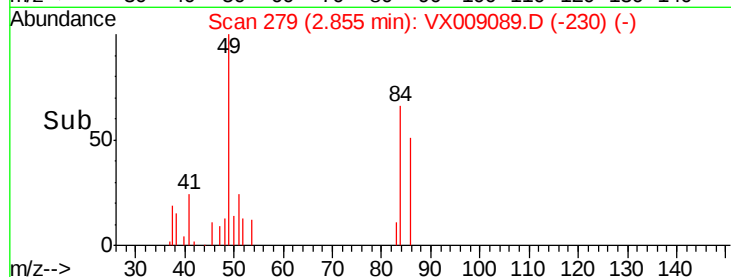
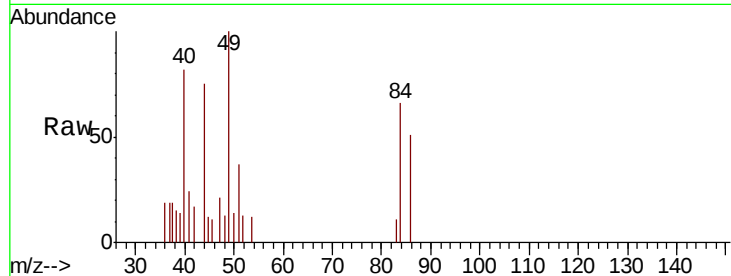




#20
Methvlene Chloride
Concen: 0.247 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX009089.D
Acq: 22 Apr 2019 12:06

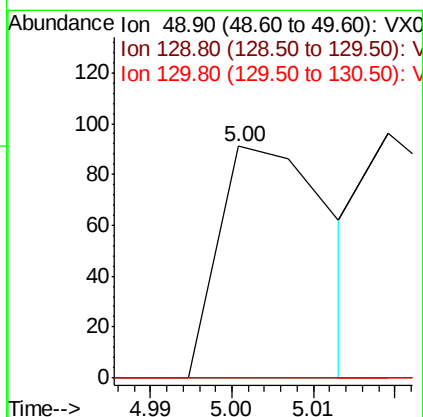
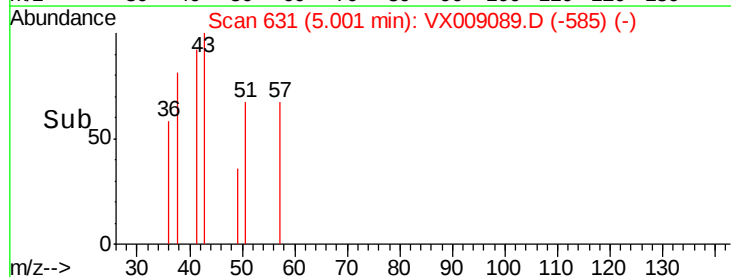
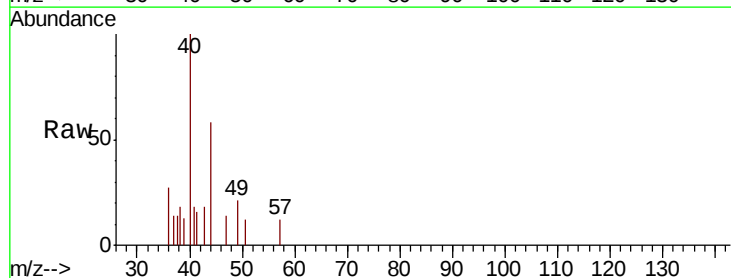
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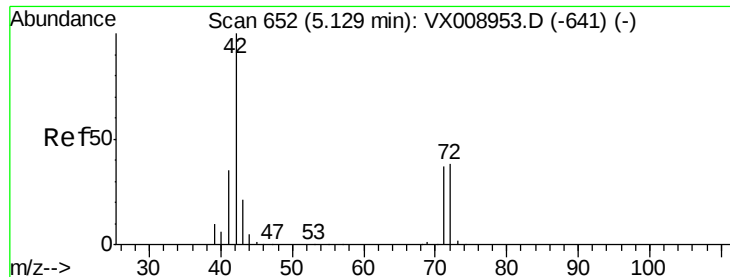
Tot Ion: 84 Resp: 758
Ion Ratio Lower Upper
84 100
49 150.9 115.4 173.0
51 56.0 35.8 53.6#
86 77.7 52.1 78.1



#28
Bromochloromethane
Concen: Below Cal
RT: 5.00 min Scan# 631
Delta R.T. -0.02 min
Lab File: VX009089.D
Acq: 22 Apr 2019 12:06

Tgt Ion: 49 Resp: 87
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 50.4 75.6#

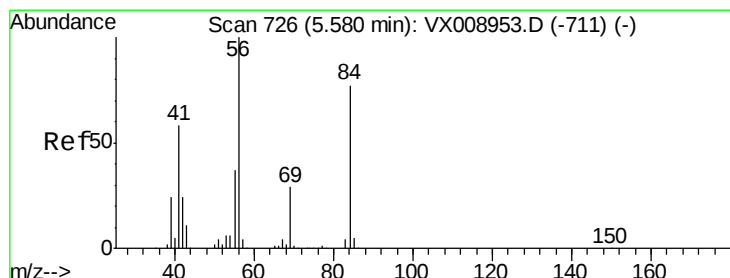
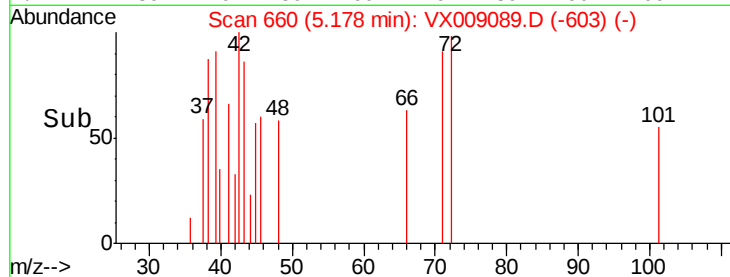
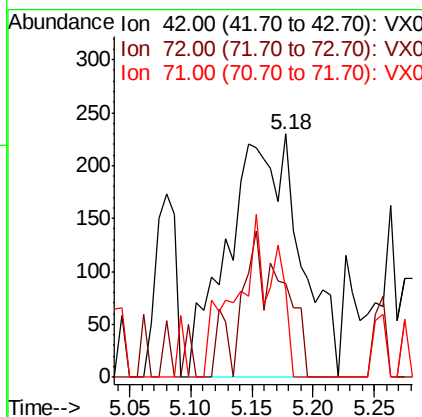
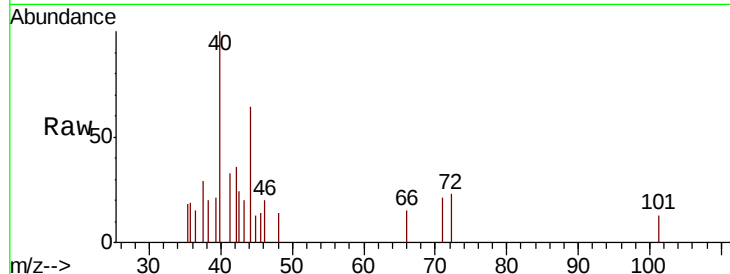




#29
Tetrahydrofuran
Concen: 0.485 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.05 min
Lab File: VX009089.D
Acq: 22 Apr 2019 12:06

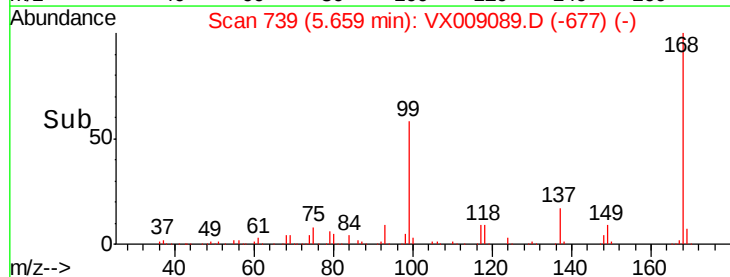
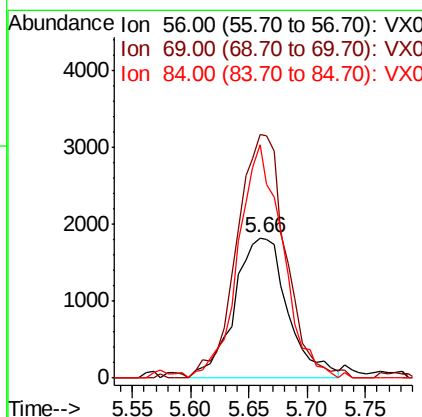
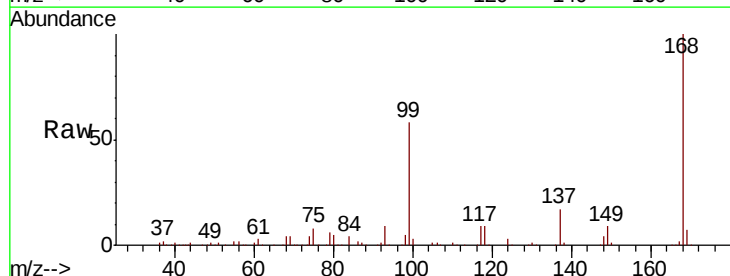
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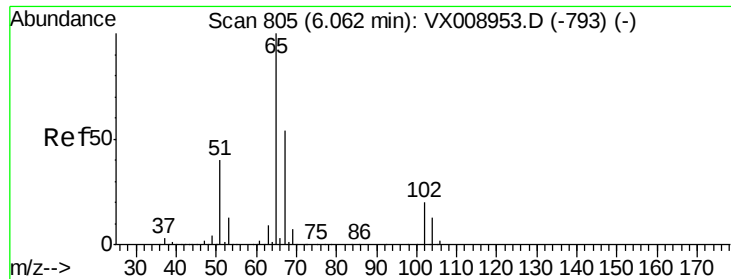
Tot Ion: 42 Resp: 930
Ion Ratio Lower Upper
42 100
72 0.0 30.6 45.8#
71 0.0 28.8 43.2#



#31
Cyclohexane
Concen: 1.055 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009089.D
Acq: 22 Apr 2019 12:06

Tgt Ion: 56 Resp: 5812
Ion Ratio Lower Upper
56 100
69 173.3 23.3 34.9#
84 166.1 61.7 92.5#

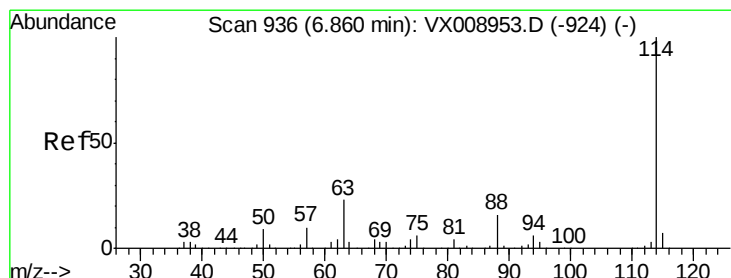
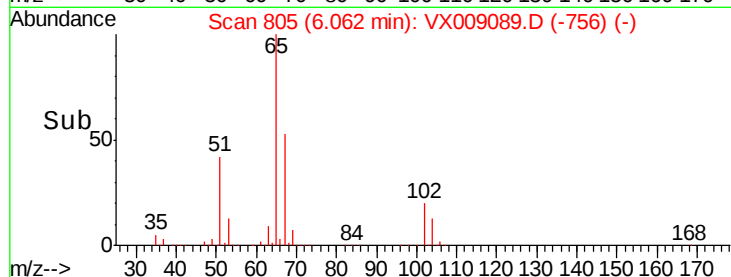
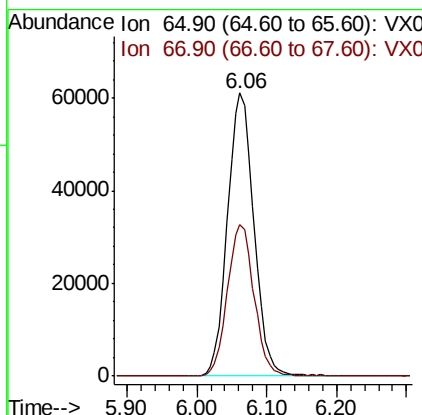
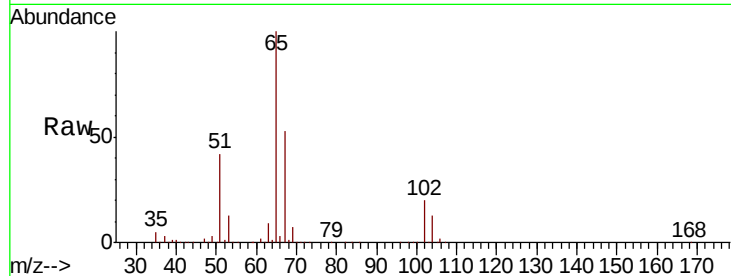




#33
 1,2-Dichloroethane-d4
 Concen: 46.402 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009089.D
 Acq: 22 Apr 2019 12:06

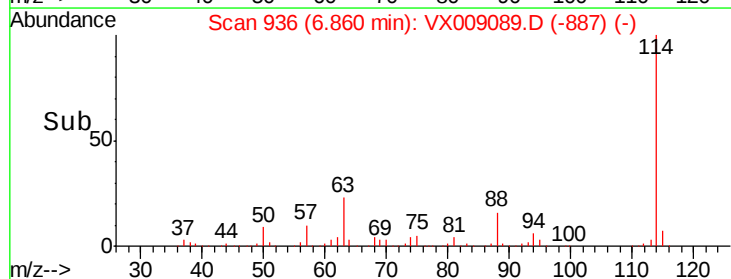
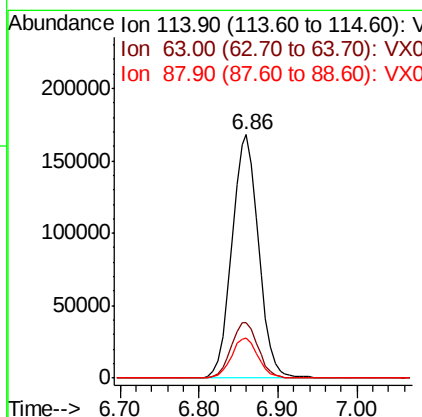
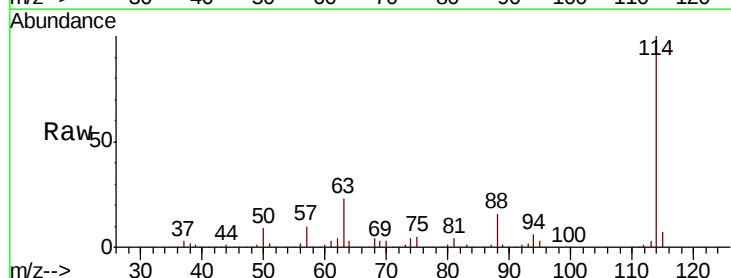
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

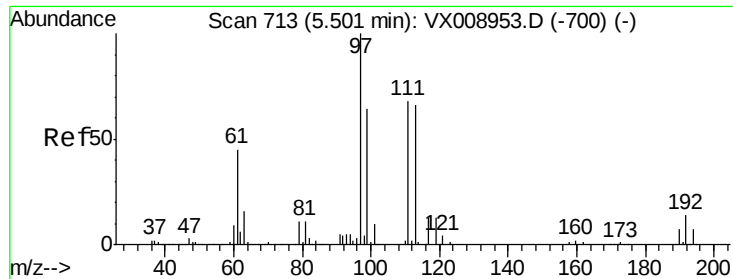
Tot Ion: 65 Resp: 160464
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009089.D
 Acq: 22 Apr 2019 12:06

Tgt Ion: 114 Resp: 394456
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 46.0
 88 16.2 0.0 32.6

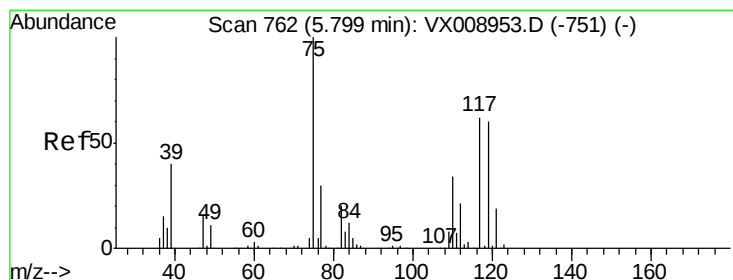
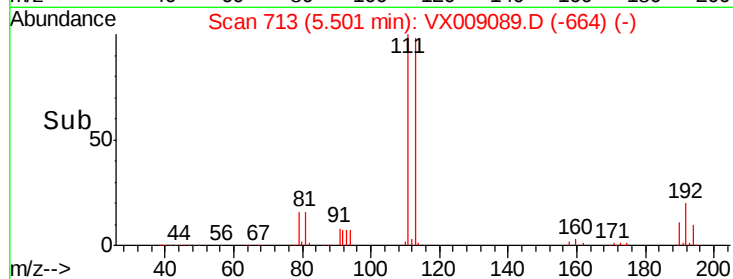
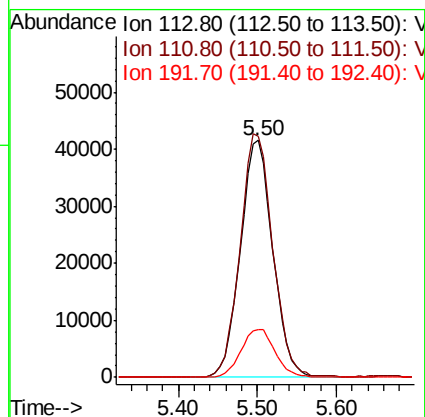
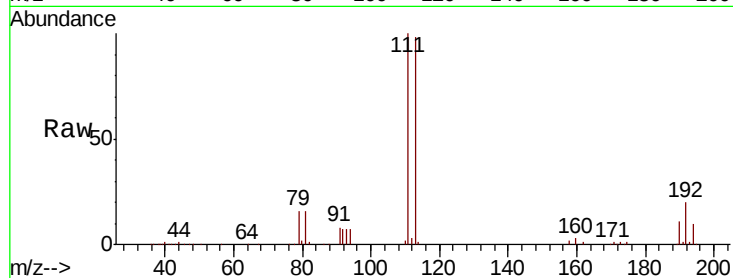




#35
 Dibromofluoromethane
 Concen: 46.920 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX009089.D
 Acq: 22 Apr 2019 12:06

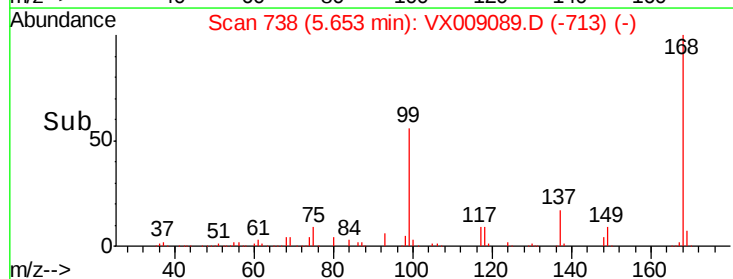
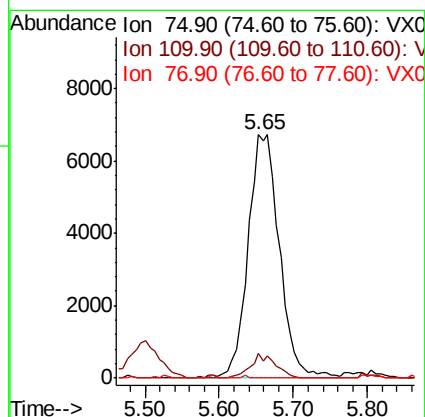
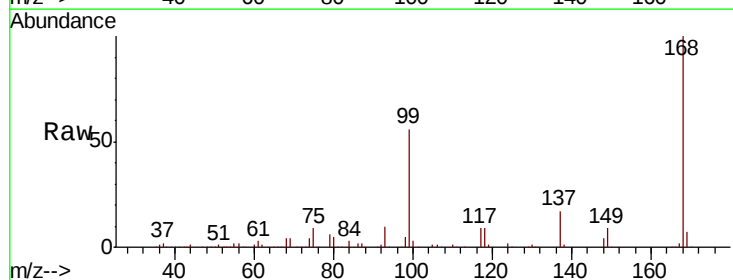
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

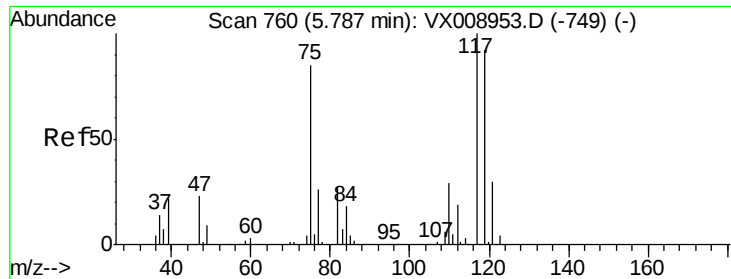
Tot Ion:113 Resp: 118780
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.9 124.3
 192 21.2 17.4 26.0



#36
 1,1-Dichloropropene
 Concen: 4.889 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX009089.D
 Acq: 22 Apr 2019 12:06

Tgt Ion: 75 Resp: 19946
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.9 50.7#
 77 0.1 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.758 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009089.D

Acq: 22 Apr 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

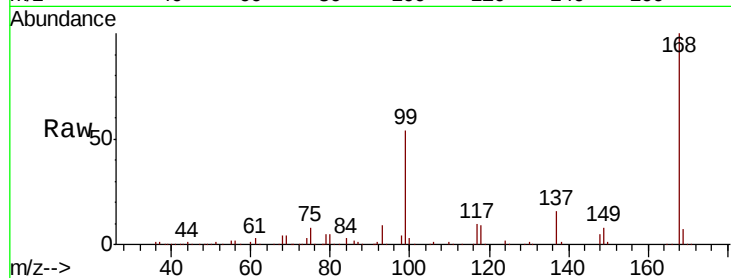
Tot Ion:117 Resp: 23372

Ion Ratio Lower Upper

117 100

119 5.1 73.8 110.8#

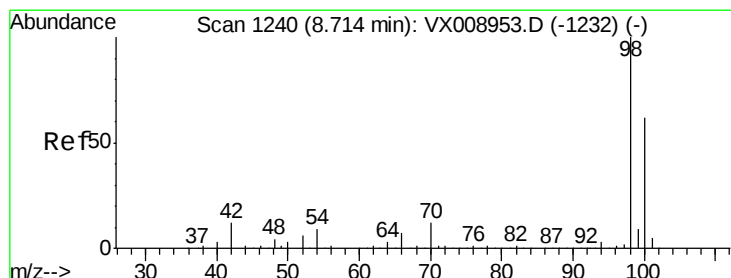
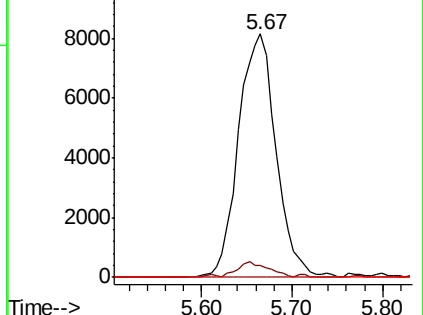
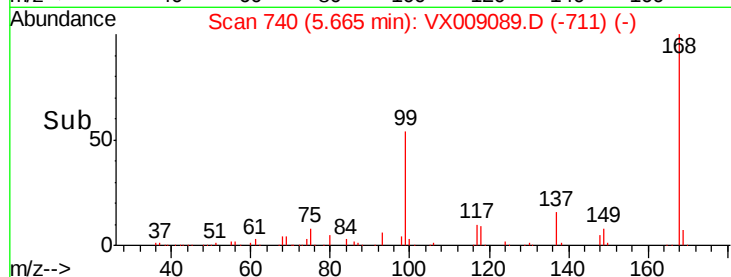
121 0.0 23.6 35.4#



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: 48.848 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009089.D

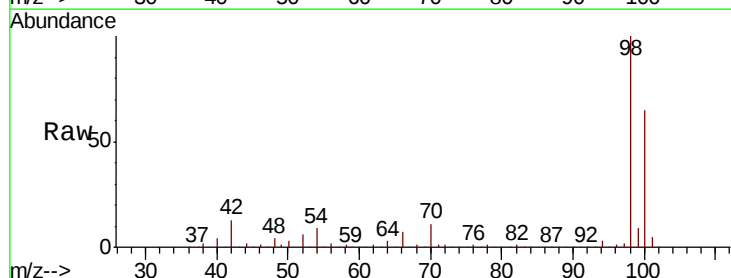
Acq: 22 Apr 2019 12:06

Tgt Ion: 98 Resp: 493160

Ion Ratio Lower Upper

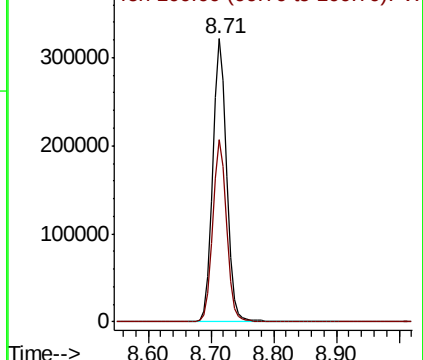
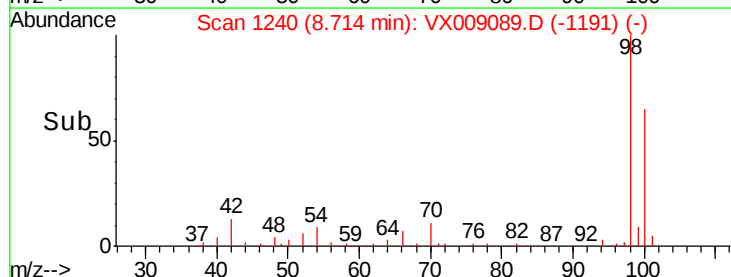
98 100

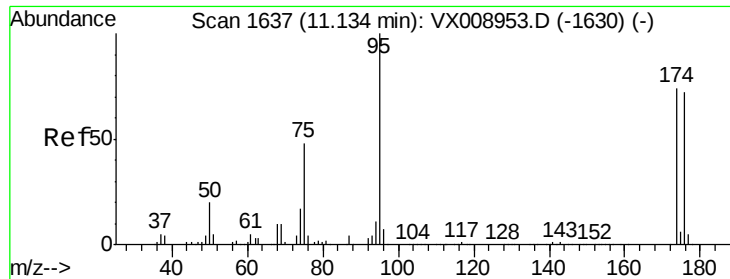
100 64.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.446 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009089.D

Acq: 22 Apr 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

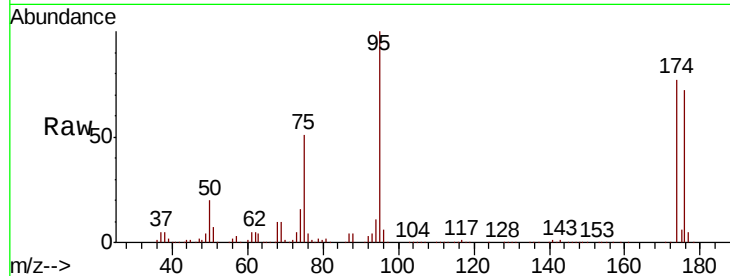
Tot Ion: 95 Resp: 161963

Ion Ratio Lower Upper

95 100

174 80.5 0.0 159.6

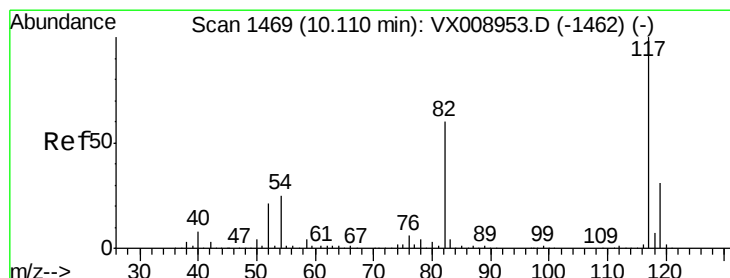
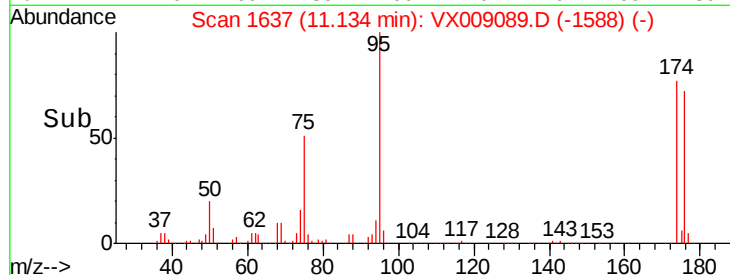
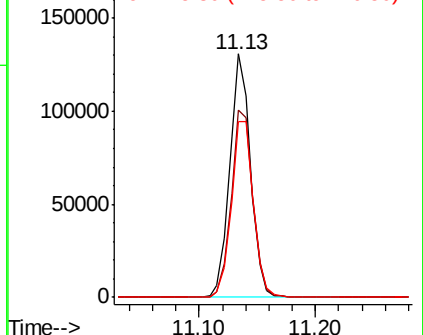
176 76.9 0.0 154.8



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: VX009089.D

Acq: 22 Apr 2019 12:06

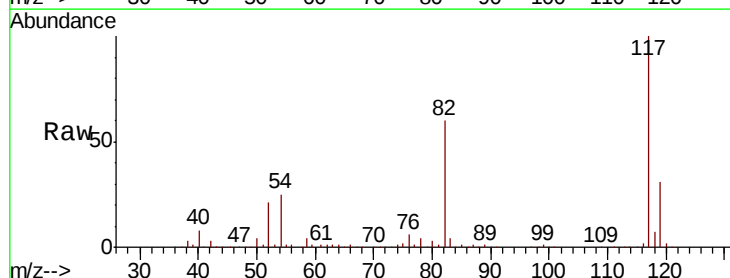
Tgt Ion: 117 Resp: 341940

Ion Ratio Lower Upper

117 100

82 60.5 48.2 72.4

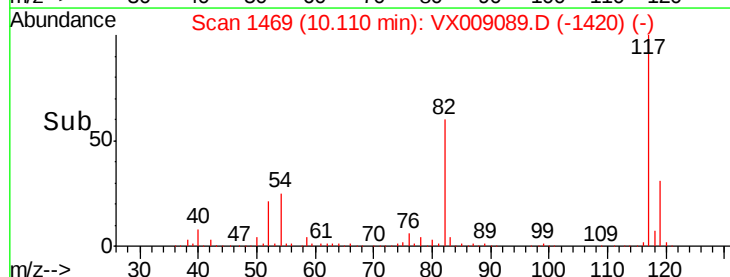
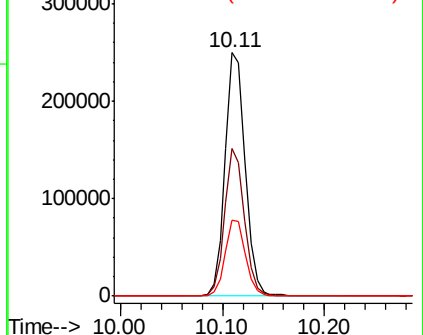
119 31.4 25.0 37.6

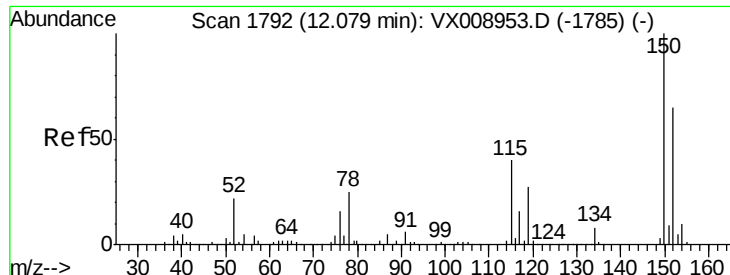


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009089.D

Acq: 22 Apr 2019 12:06

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

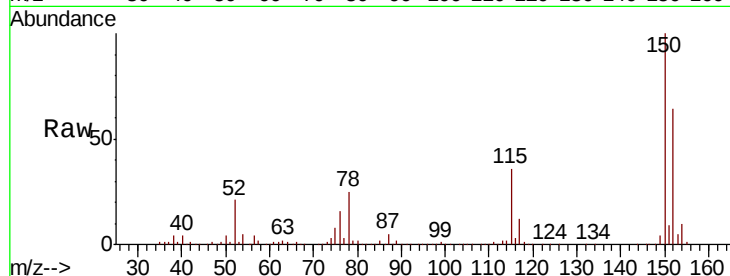
Tot Ion:152 Resp: 144527

Ion Ratio Lower Upper

152 100

115 58.3 41.4 124.2

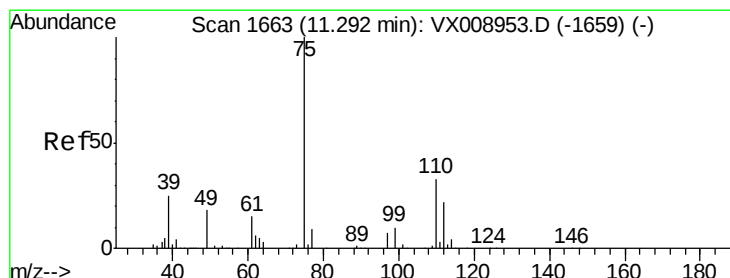
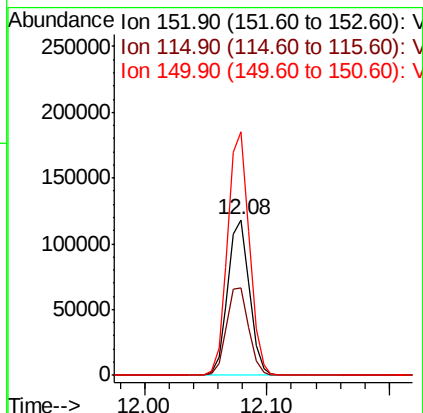
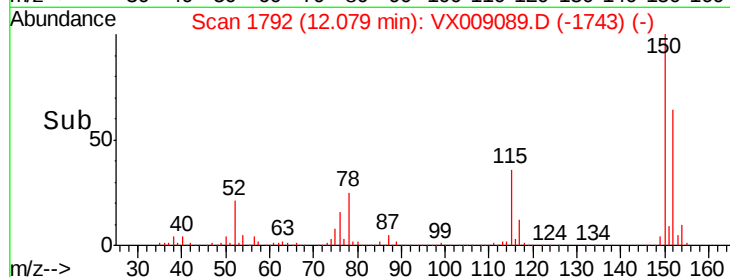
150 156.5 0.0 349.8



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: 23.153 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009089.D

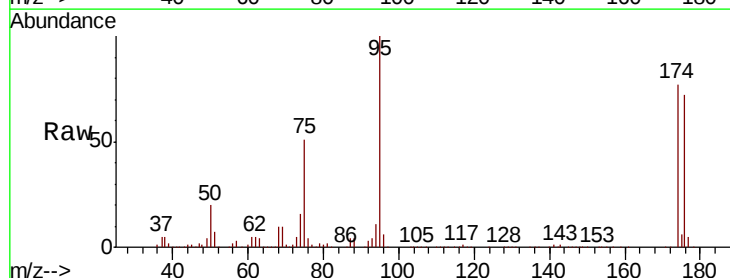
Acq: 22 Apr 2019 12:06

Tgt Ion: 75 Resp: 81708

Ion Ratio Lower Upper

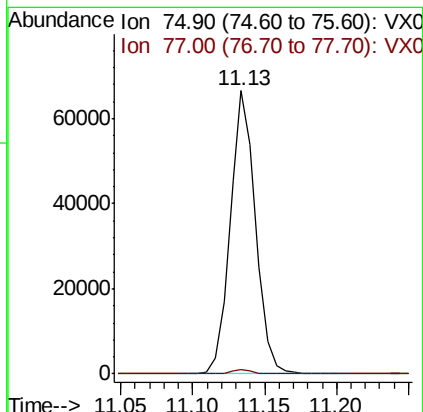
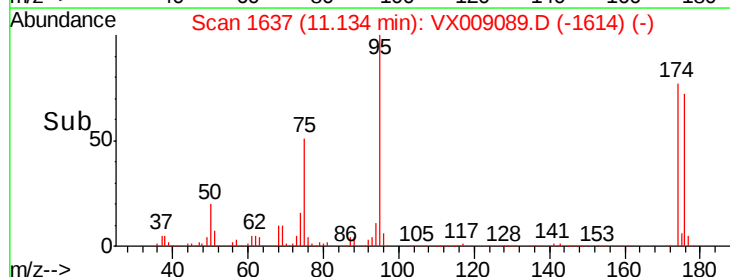
75 100

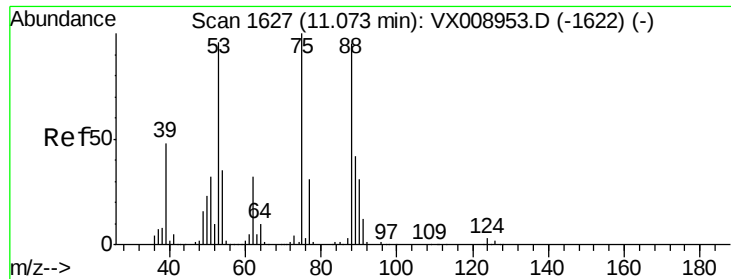
77 1.4 22.7 68.0#



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: 59.440 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009089.D
 Acq: 22 Apr 2019 12:06

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Tot Ion: 75 Resp: 81708
 Ion Ratio Lower Upper
 75 100
 53 0.2 78.2 117.4#
 89 0.0 36.0 54.0#

