

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX050718\
 Data File : VX001501.D
 Acq On : 08 May 2018 07:45
 Operator : JC/MD
 Sample : J2736-03 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MS-SOIL

Quant Time: May 08 08:10:43 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
 Quant Title : SW846 8260
 QLast Update : Sun May 06 07:59:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	266486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	366836	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	323979	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	183052	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	179447	46.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.70%	
35) Dibromofluoromethane	5.51	113	138738	42.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.04%	
50) Toluene-d8	8.72	98	507021	42.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.14%	
62) 4-Bromofluorobenzene	11.14	95	169839	37.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.30%	

Target Compounds

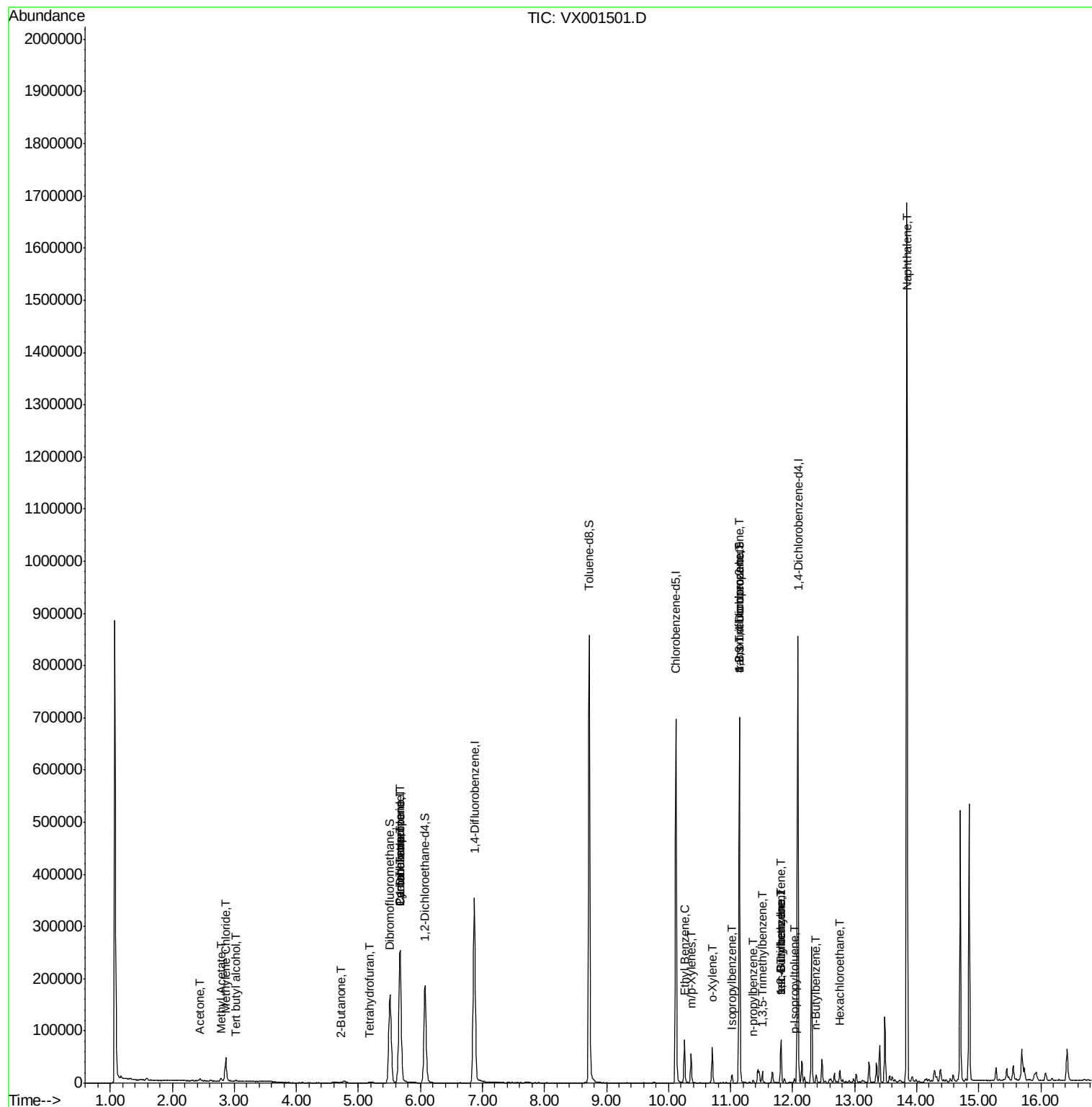
						Qvalue
5) Bromomethane	1.63	94	110	Below Cal	#	3
11) Tert butyl alcohol	3.03	59	1015	1.26	ug/l #	77
13) Acrolein	2.31	56	90	Below Cal	#	1
16) Acetone	2.45	43	4685	2.69	ug/l	95
18) Methyl Acetate	2.78	43	5916	1.29	ug/l	94
20) Methylene Chloride	2.86	84	20671	6.00	ug/l	96
25) 2-Butanone	4.71	43	621	0.25	ug/l #	84
29) Tetrahydrofuran	5.17	42	456	0.28	ug/l #	91
31) Cyclohexane	5.67	56	4796	0.97	ug/l #	21
36) 1,1-Dichloropropene	5.67	75	16737	3.59	ug/l #	49
38) Carbon Tetrachloride	5.67	117	23248	4.67	ug/l #	16
67) Ethyl Benzene	10.26	91	45971	2.95	ug/l	99
68) m/p-Xylenes	10.36	106	13470	2.19	ug/l	100
69) o-Xylene	10.70	106	14967	2.50	ug/l	96
73) Isopropylbenzene	11.02	105	7925	0.63	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	85528	23.04	ug/l #	38
78) n-propylbenzene	11.37	91	2914	0.21	ug/l	96
80) 1,3,5-Trimethylbenzene	11.51	105	9180	0.87	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.14	75	85528	71.44	ug/l #	7
83) tert-Butylbenzene	11.81	119	4474	0.43	ug/l #	48
84) 1,2,4-Trimethylbenzene	11.81	105	34726	3.20	ug/l	98
85) sec-Butylbenzene	11.81	105	34726	2.76	ug/l #	54
86) p-Isopropyltoluene	12.03	119	3530	0.31	ug/l	97
89) n-Butylbenzene	12.38	91	1924	0.20	ug/l #	14
90) Hexachloroethane	12.76	117	9143	5.25	ug/l #	1
95) Naphthalene	13.84	128	1015432	74.88	ug/l	100

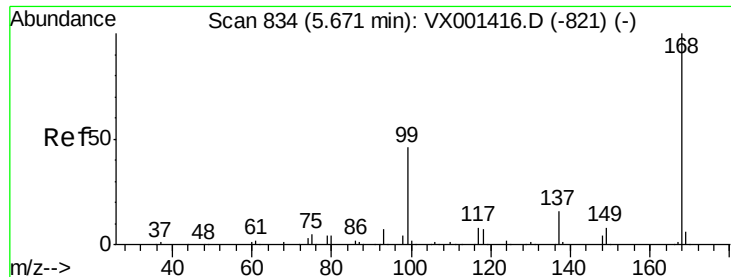
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
Quant Title : SW846 8260
QLast Update : Sun May 06 07:59:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

Instrument :

MSVOA_X

ClientSampleId :

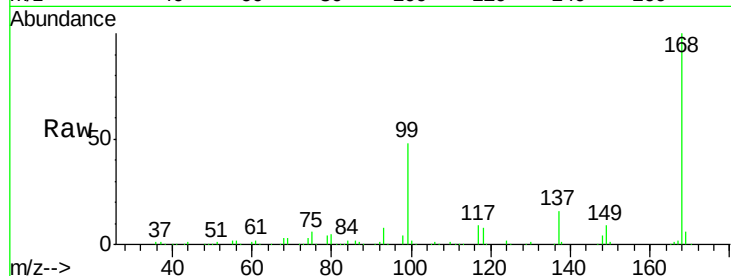
MS-SOIL

Tgt Ion:168 Resp: 266486

Ion Ratio Lower Upper

168 100

99 47.6 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

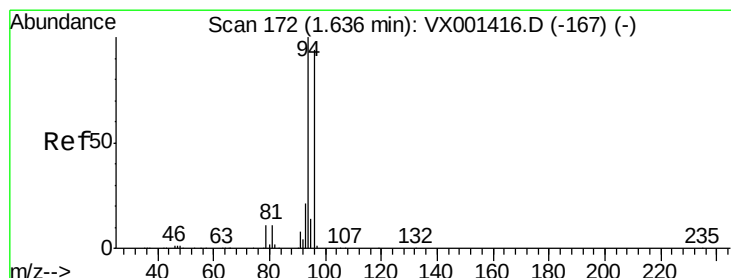
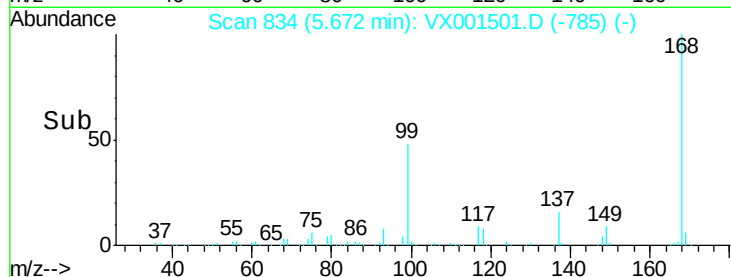
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 171

Delta R.T. -0.01 min

Lab File: VX001501.D

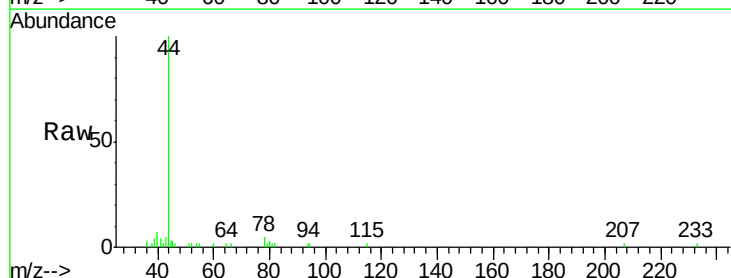
Acq: 08 May 2018 07:45

Tgt Ion: 94 Resp: 110

Ion Ratio Lower Upper

94 100

96 0.0 75.0 112.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

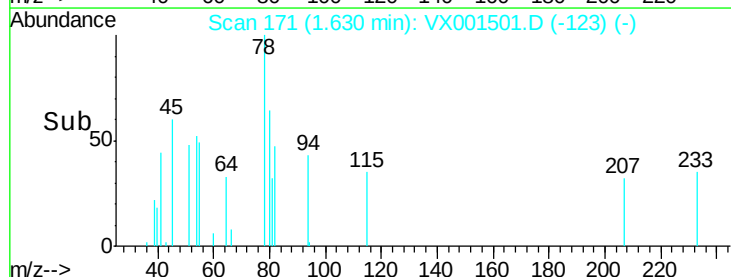
150

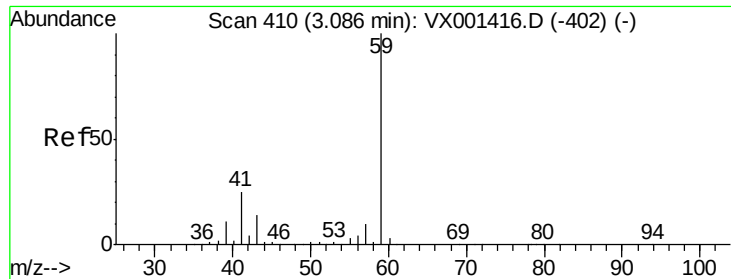
100

50

0

Time--> 1.61 1.62 1.63 1.64

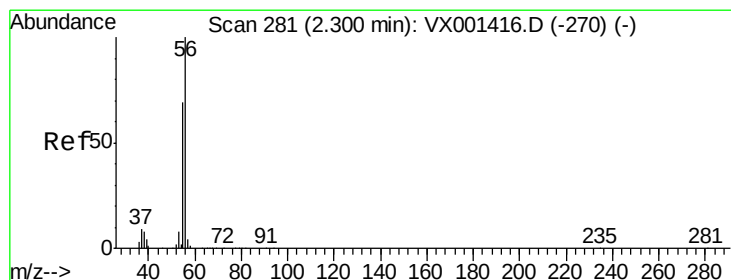
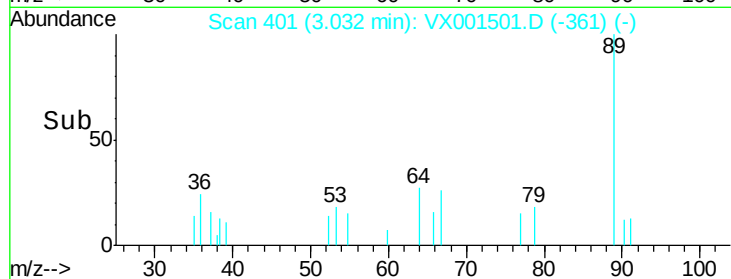
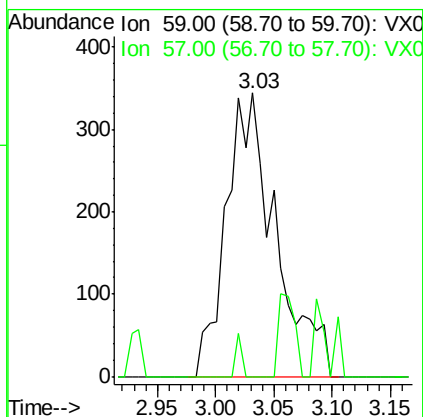
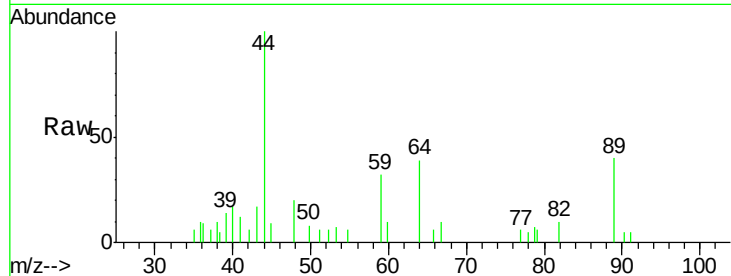




#11
Tert butyl alcohol
Concen: 1.26 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX001501.D
Acq: 08 May 2018 07:45

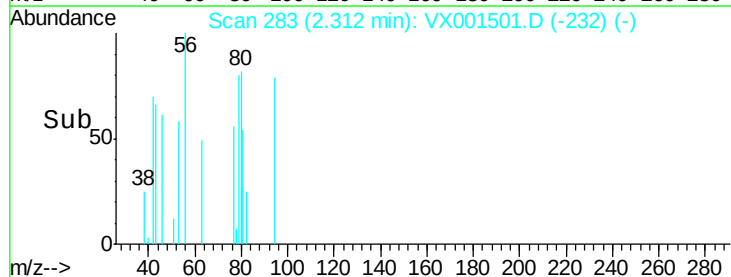
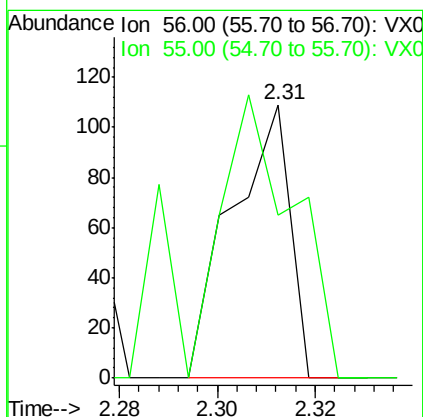
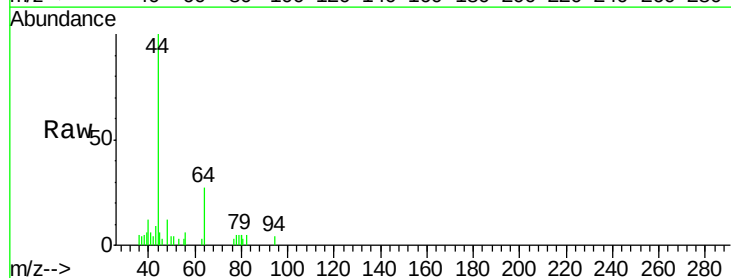
Instrument :
MSVOA_X
ClientSampleId :
MS-SOIL

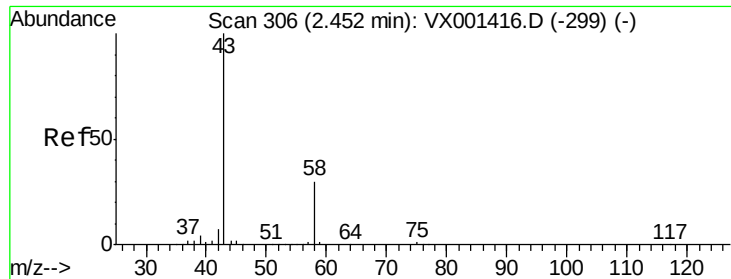
Tgt Ion: 59 Resp: 1015
Ion Ratio Lower Upper
59 100
57 1.9 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 283
Delta R.T. 0.01 min
Lab File: VX001501.D
Acq: 08 May 2018 07:45

Tgt Ion: 56 Resp: 90
Ion Ratio Lower Upper
56 100
55 158.9 54.5 81.7#





#16

Acetone

Concen: 2.69 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

Instrument :

MSVOA_X

ClientSampleId :

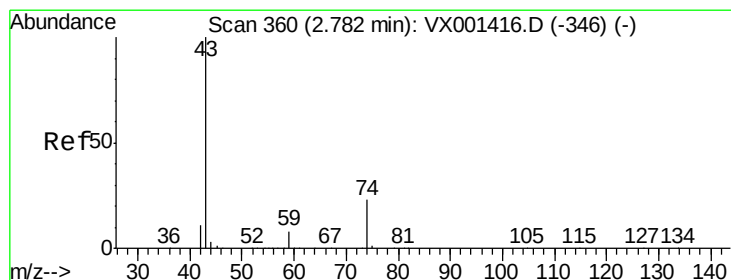
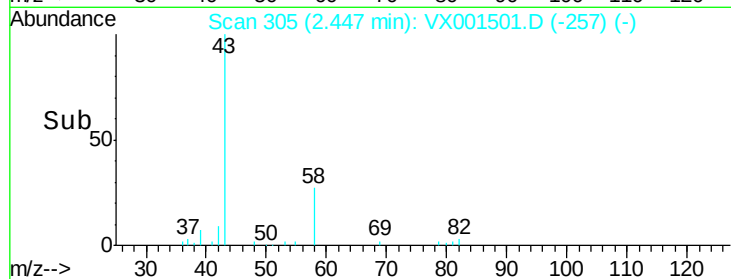
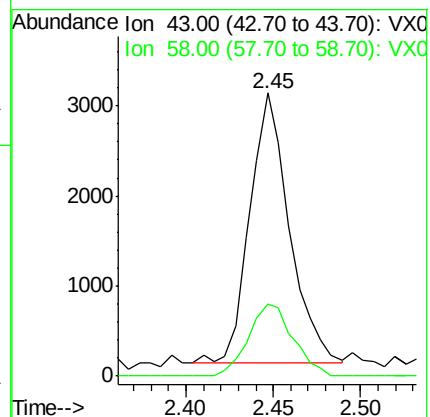
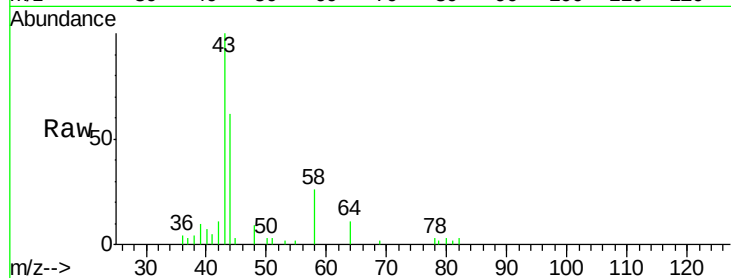
MS-SOIL

Tgt Ion: 43 Resp: 4685

Ion Ratio Lower Upper

43 100

58 27.0 23.8 35.8



#18

Methyl Acetate

Concen: 1.29 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX001501.D

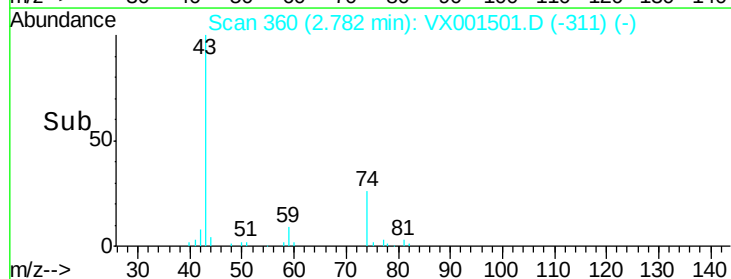
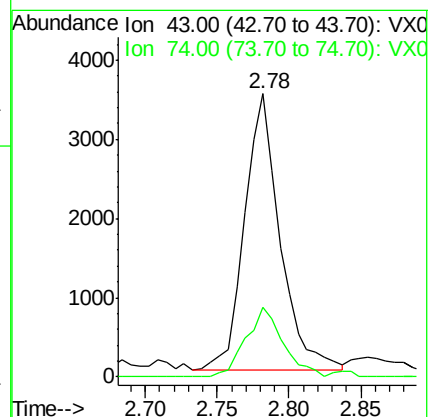
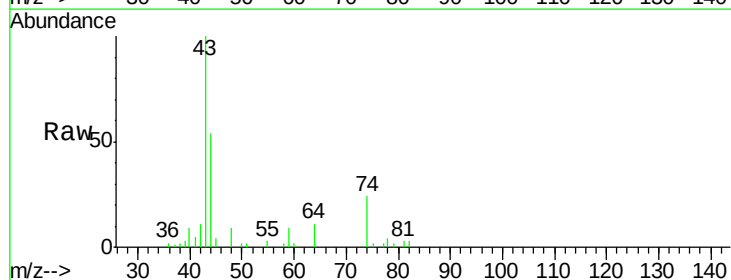
Acq: 08 May 2018 07:45

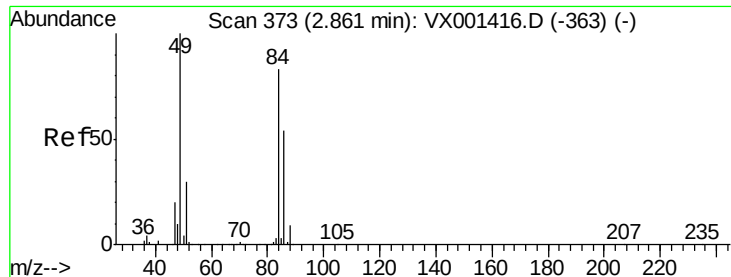
Tgt Ion: 43 Resp: 5916

Ion Ratio Lower Upper

43 100

74 26.4 18.6 27.8



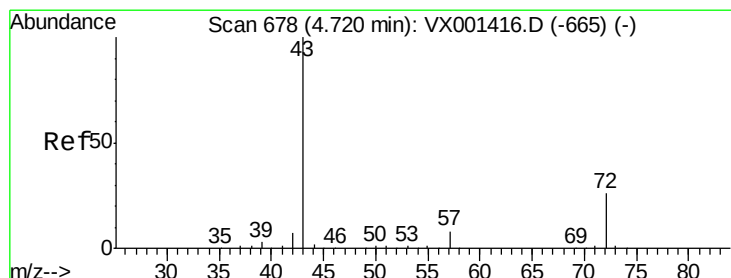
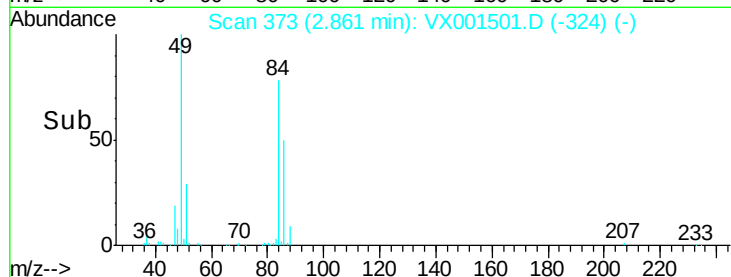
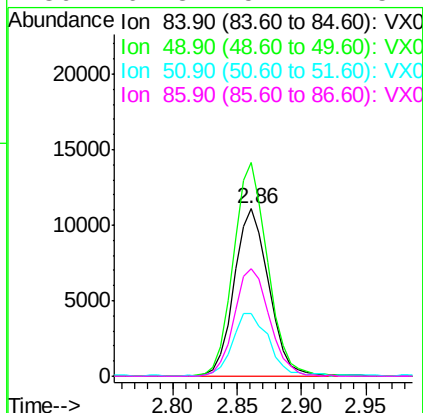
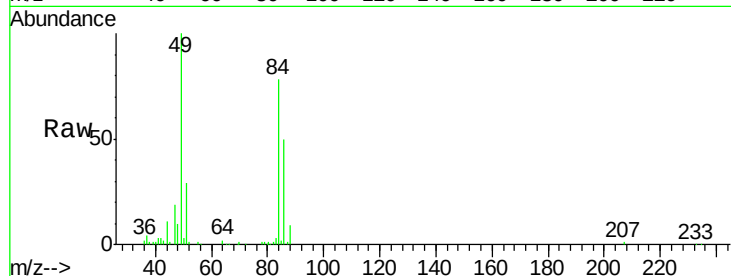


#20
Methylene Chloride
Concen: 6.00 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX001501.D
Acq: 08 May 2018 07:45

Instrument :
MSVOA_X
ClientSampled :
MS-SOIL

Tgt Ion: 84 Resp: 20671

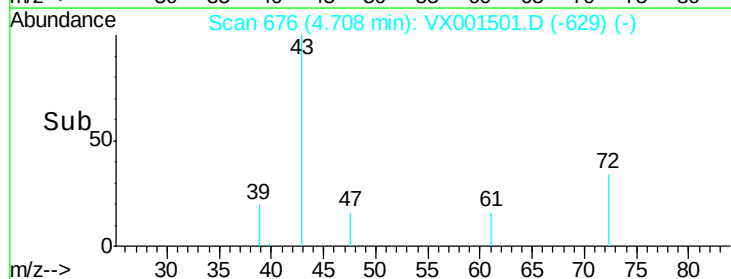
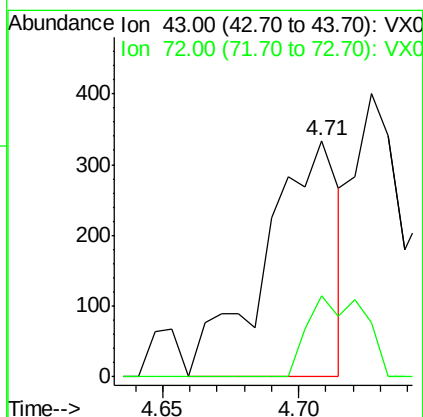
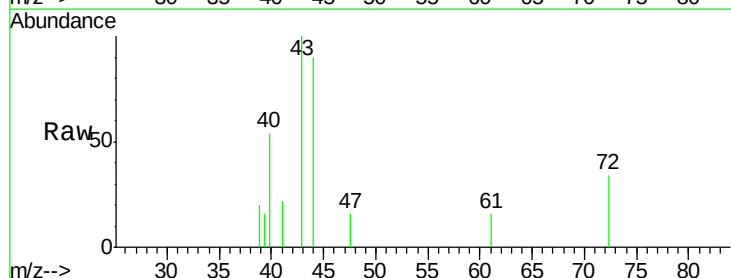
Ion	Ratio	Lower	Upper
84	100		
49	127.8	96.6	144.8
51	36.8	29.0	43.4
86	64.3	52.2	78.4

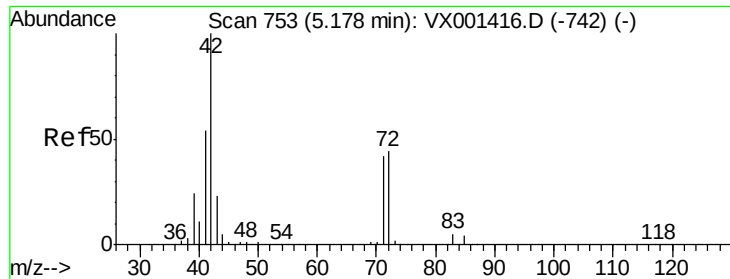


#25
2-Butanone
Concen: 0.25 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX001501.D
Acq: 08 May 2018 07:45

Tgt Ion: 43 Resp: 621

Ion	Ratio	Lower	Upper
43	100		
72	34.1	20.7	31.1#





#29

Tetrahydrofuran

Concen: 0.28 ug/l

RT: 5.17 min Scan# 752

Delta R.T. -0.01 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

Instrument :

MSVOA_X

ClientSampleId :

MS-SOIL

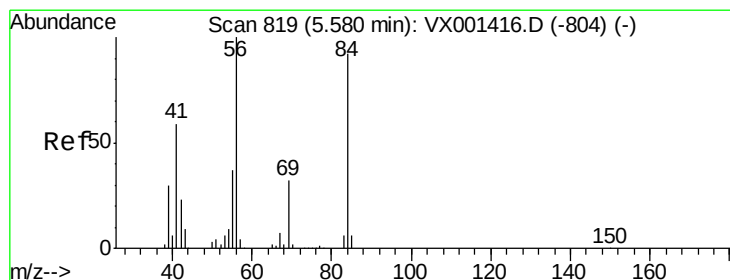
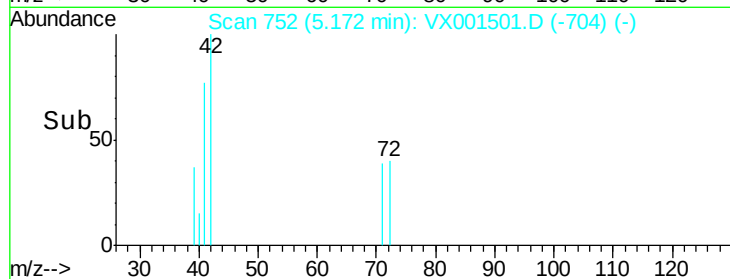
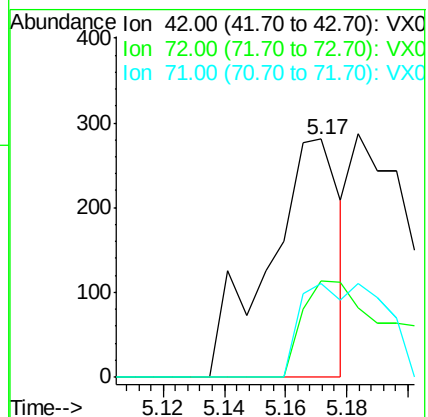
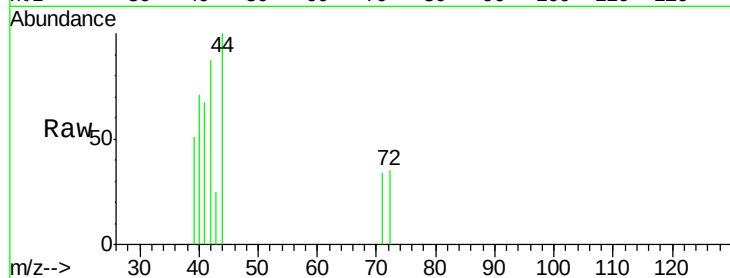
Tgt Ion: 42 Resp: 456

Ion Ratio Lower Upper

42 100

72 46.1 35.4 53.2

71 50.4 33.0 49.4#



#31

Cyclohexane

Concen: 0.97 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

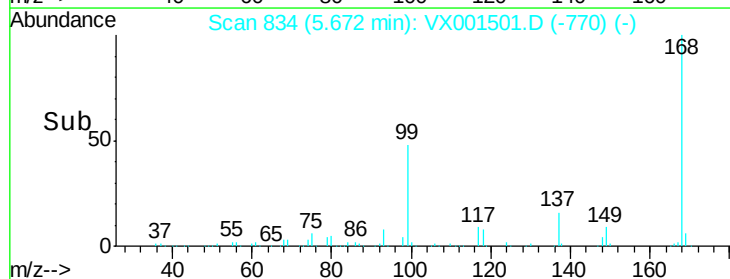
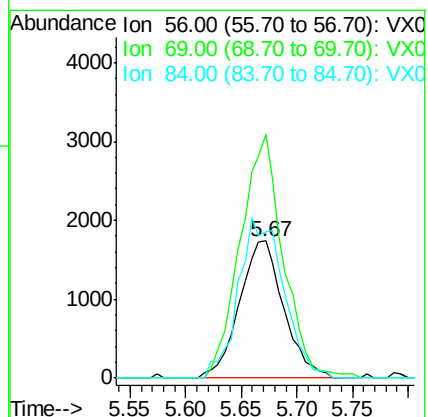
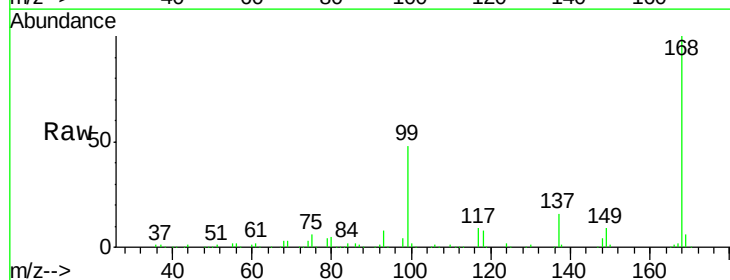
Tgt Ion: 56 Resp: 4796

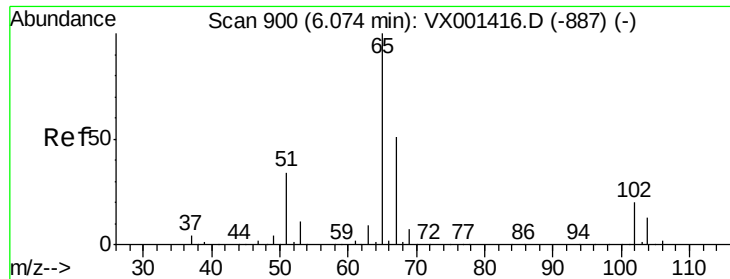
Ion Ratio Lower Upper

56 100

69 178.1 25.4 38.0#

84 107.4 73.8 110.8

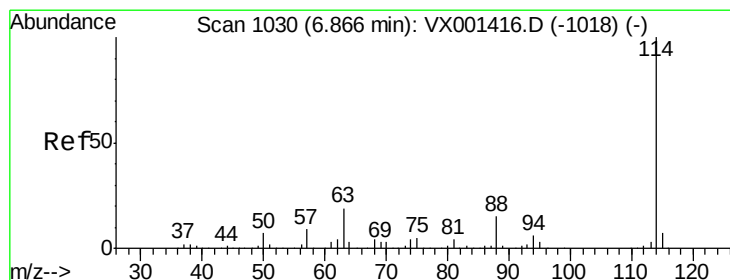
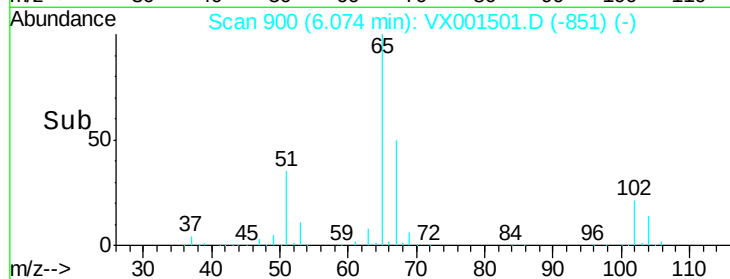
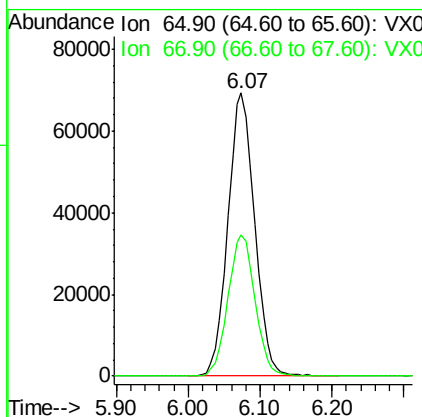
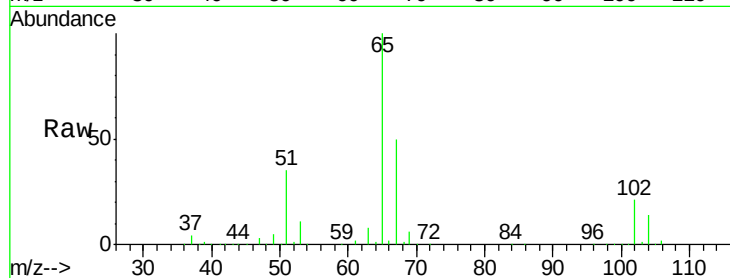




#33
 1,2-Dichloroethane-d4
 Concen: 46.85 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX001501.D
 Acq: 08 May 2018 07:45

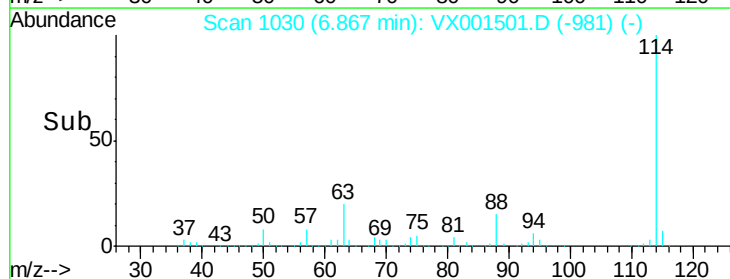
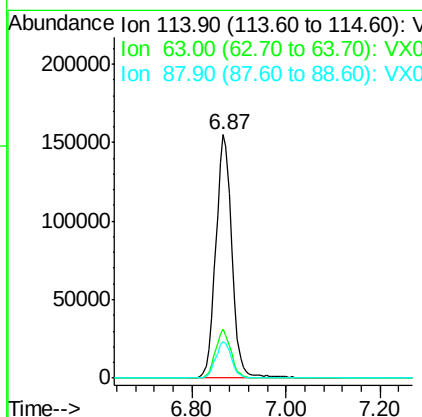
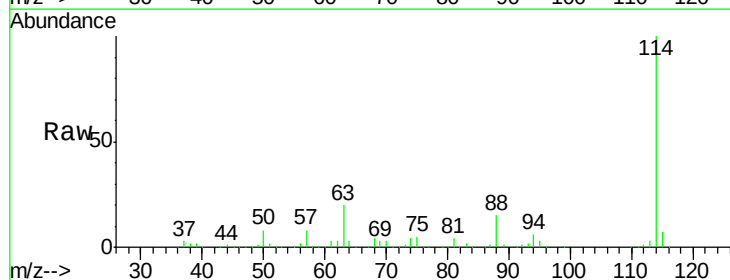
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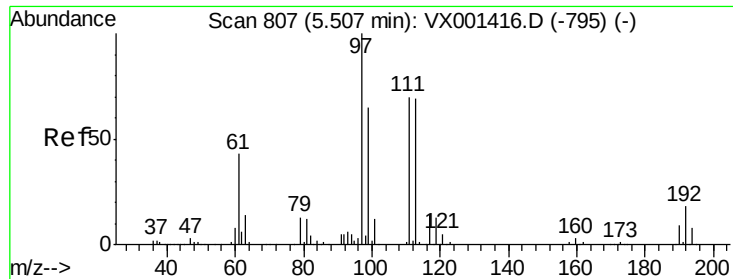
Tgt Ion: 65 Resp: 179447
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX001501.D
 Acq: 08 May 2018 07:45

Tgt Ion: 114 Resp: 366836
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 38.6
 88 15.1 0.0 30.8

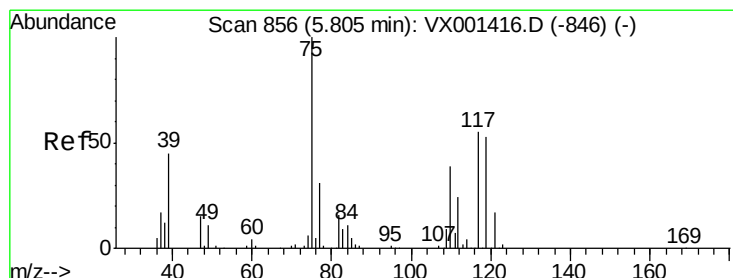
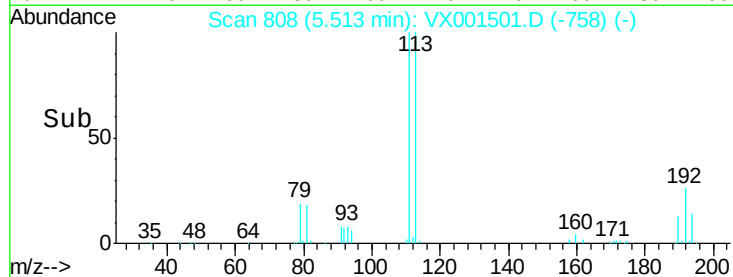
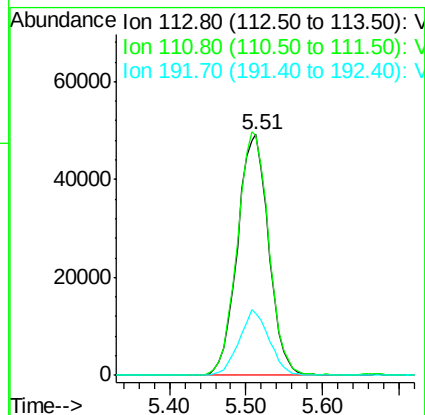
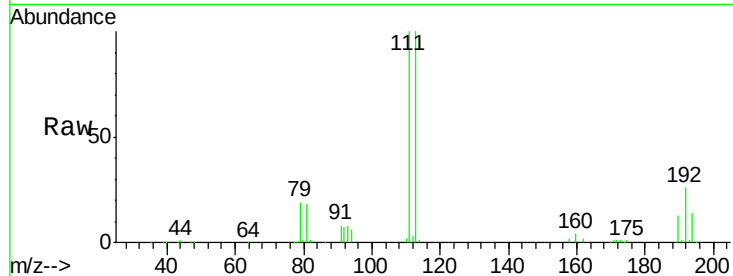




#35
 Dibromofluoromethane
 Concen: 42.52 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX001501.D
 Acq: 08 May 2018 07:45

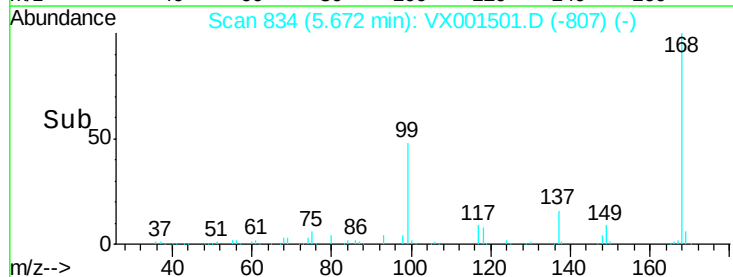
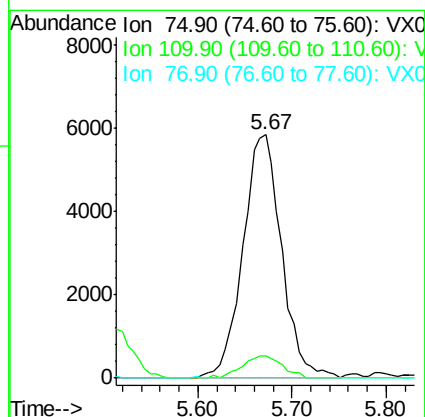
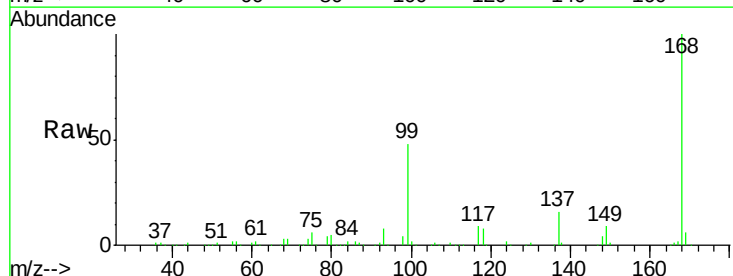
Instrument :
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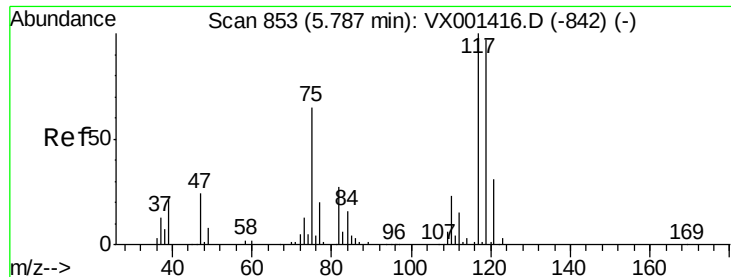
Tgt Ion:113 Resp: 138738
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.2 123.2
 192 26.2 21.4 32.0



#36
 1,1-Dichloropropene
 Concen: 3.59 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX001501.D
 Acq: 08 May 2018 07:45

Tgt Ion: 75 Resp: 16737
 Ion Ratio Lower Upper
 75 100
 110 9.6 18.9 56.7#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 4.67 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

Instrument :

MSVOA_X

ClientSampleId :

MS-SOIL

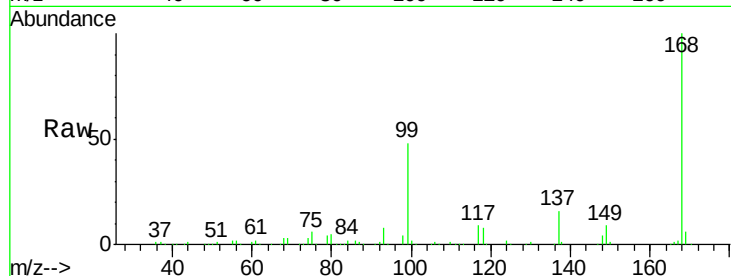
Tgt Ion:117 Resp: 23248

Ion Ratio Lower Upper

117 100

119 4.8 77.0 115.6#

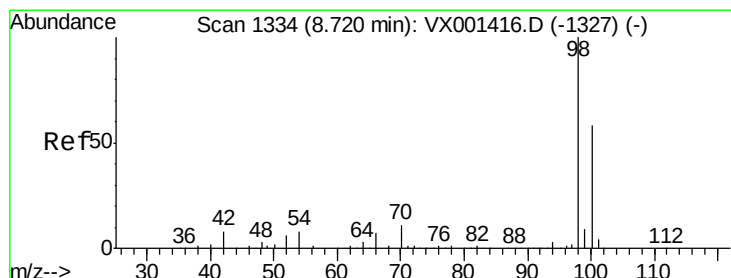
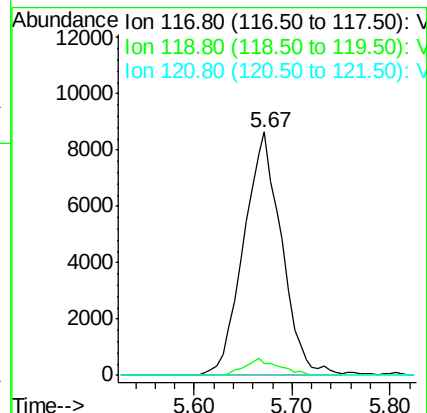
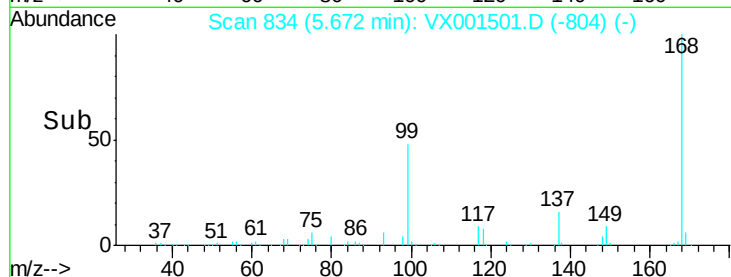
121 0.0 25.1 37.7#



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: 42.57 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001501.D

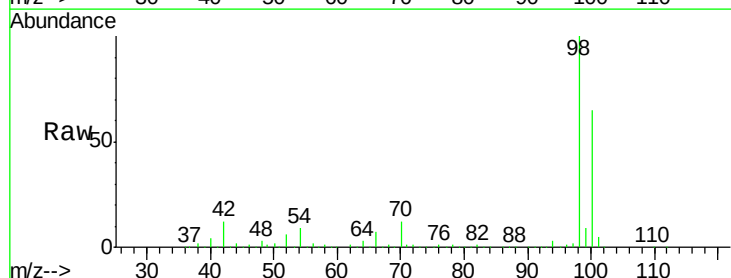
Acq: 08 May 2018 07:45

Tgt Ion: 98 Resp: 507021

Ion Ratio Lower Upper

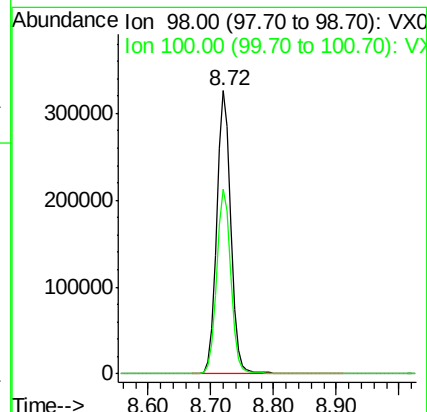
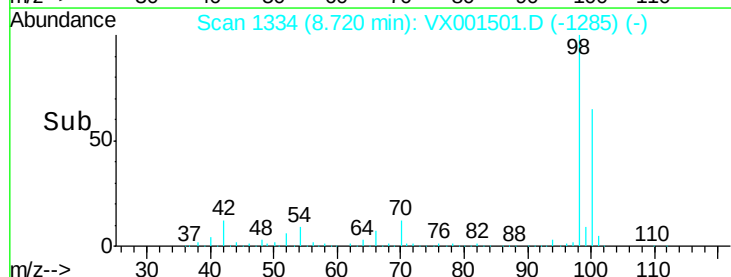
98 100

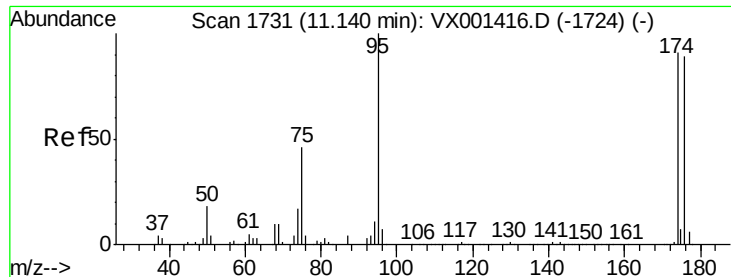
100 65.7 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 37.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

Instrument :

MSVOA_X

ClientSampleId :

MS-SOIL

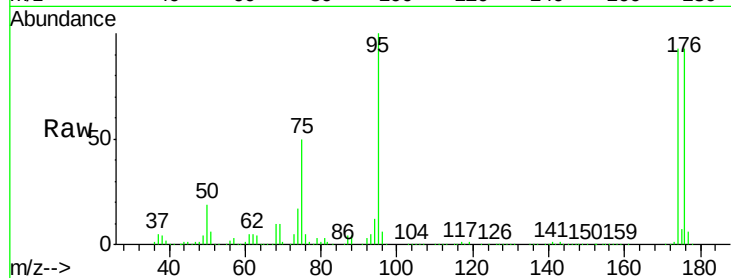
Tgt Ion: 95 Resp: 169839

Ion Ratio Lower Upper

95 100

174 100.1 0.0 202.0

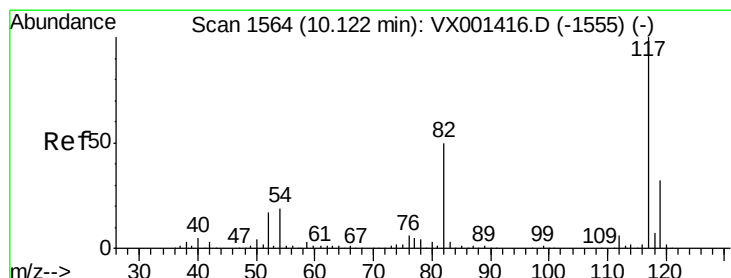
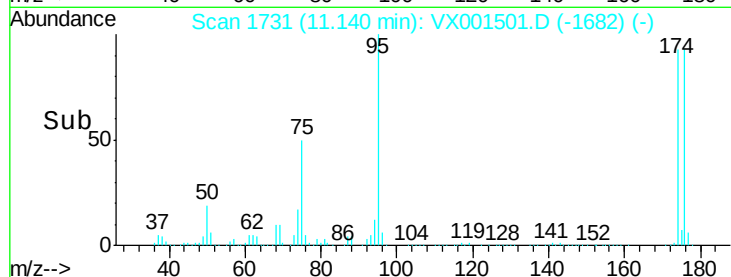
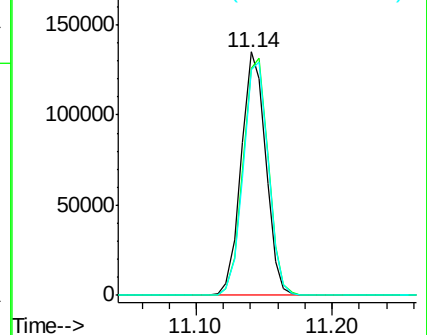
176 98.5 0.0 197.4



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# 1563

Delta R.T. -0.01 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

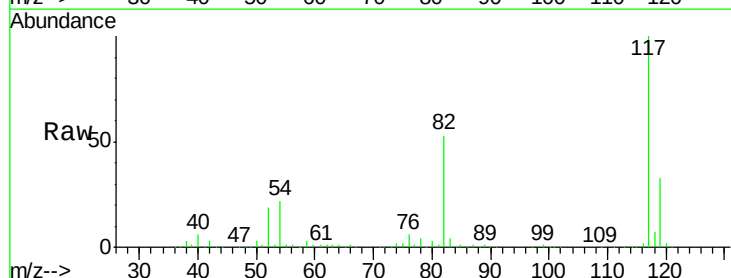
Tgt Ion: 117 Resp: 323979

Ion Ratio Lower Upper

117 100

82 53.4 40.0 60.0

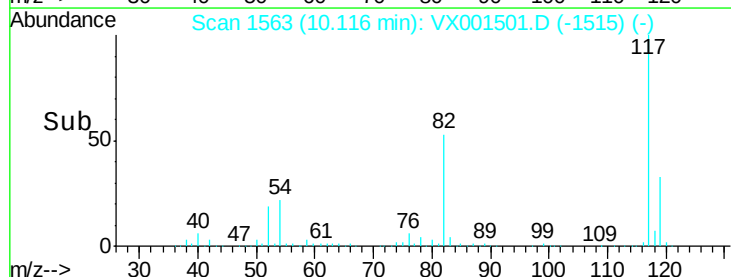
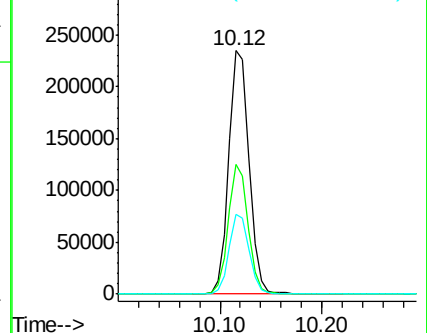
119 33.0 25.8 38.8

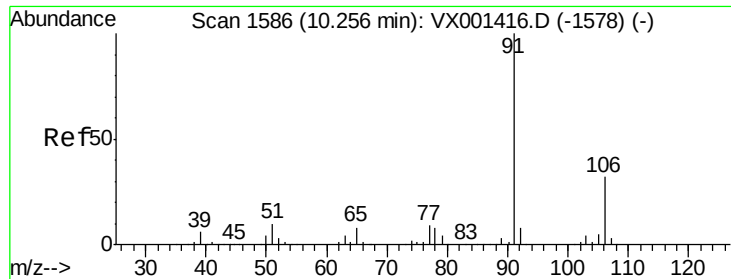


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

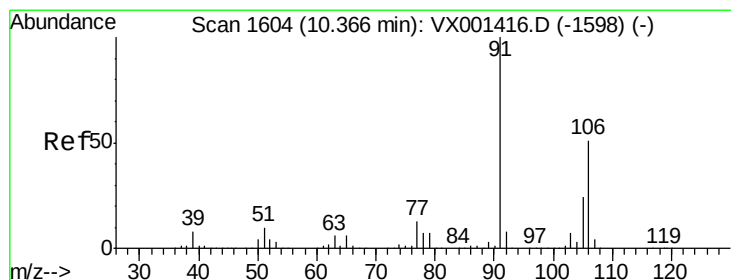
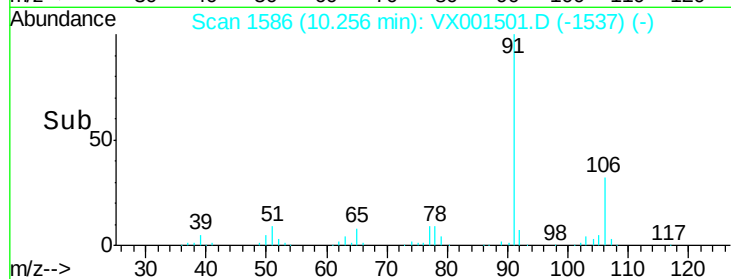
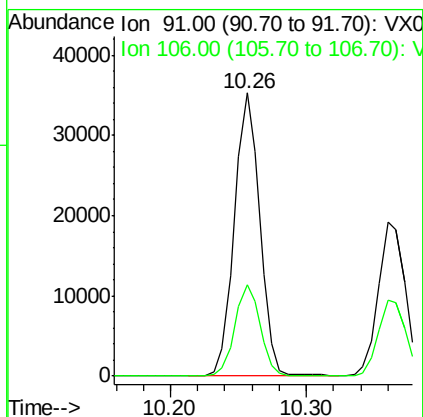
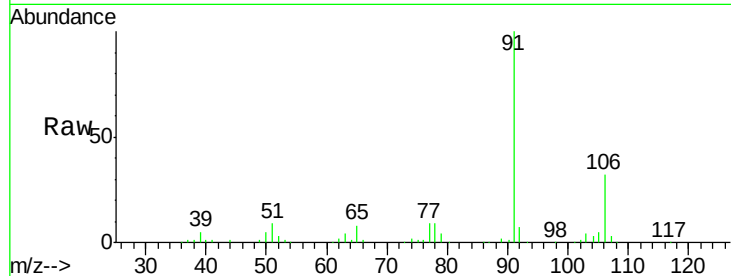




#67
Ethyl Benzene
Concen: 2.95 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX001501.D
Acq: 08 May 2018 07:45

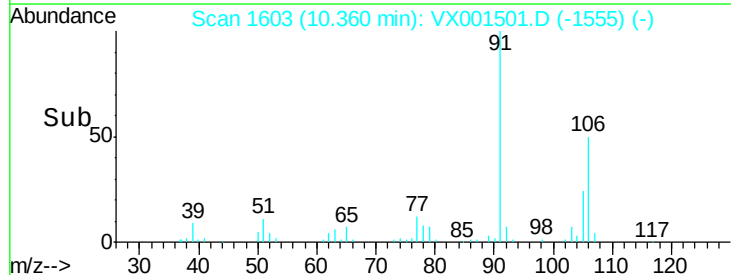
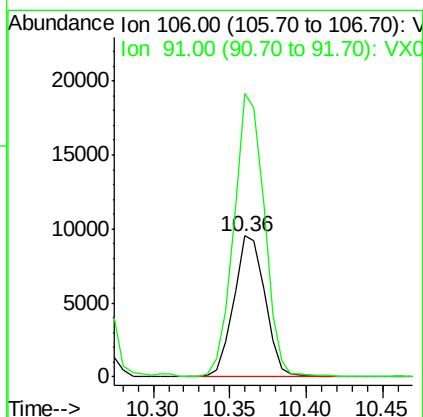
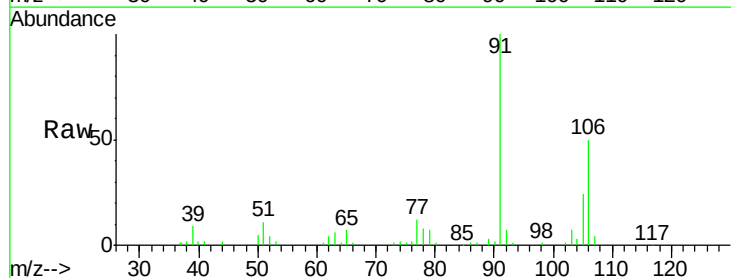
Instrument :
MSVOA_X
ClientSampled :
MS-SOIL

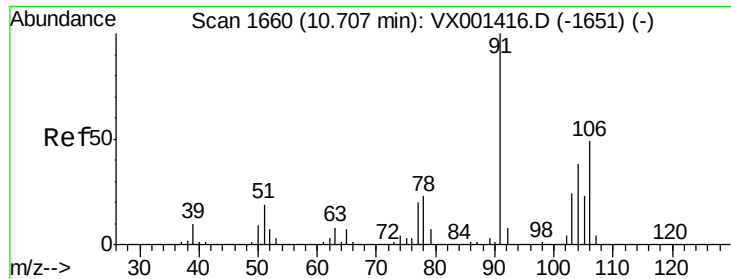
Tgt Ion: 91 Resp: 45971
Ion Ratio Lower Upper
91 100
106 32.2 25.5 38.3



#68
m/p-Xylenes
Concen: 2.19 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX001501.D
Acq: 08 May 2018 07:45

Tgt Ion: 106 Resp: 13470
Ion Ratio Lower Upper
106 100
91 196.5 157.5 236.3

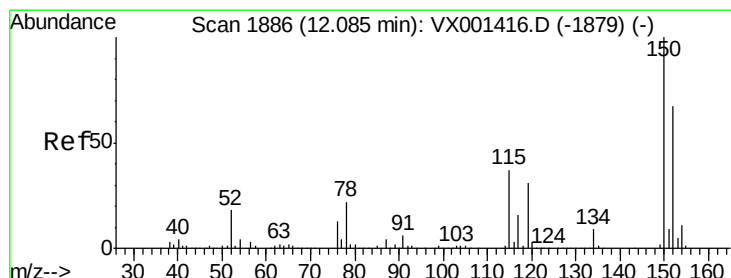
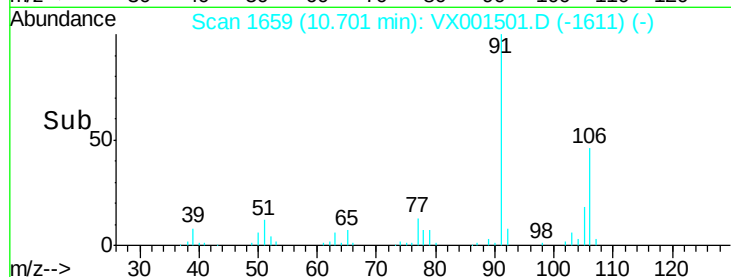
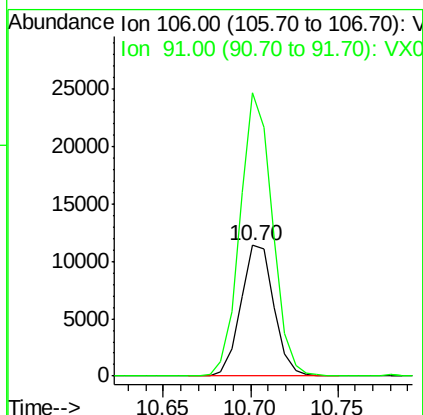
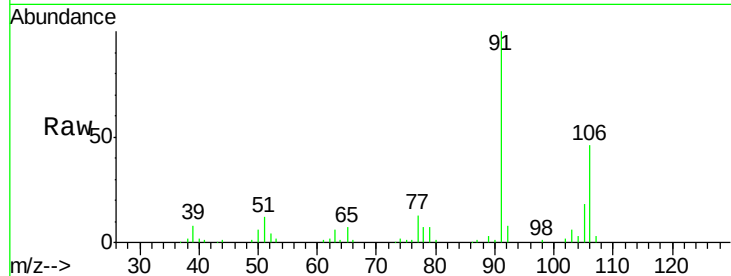




#69
o-Xylene
Concen: 2.50 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VX001501.D
Acq: 08 May 2018 07:45

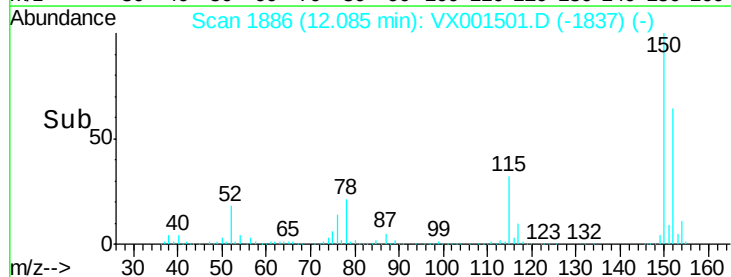
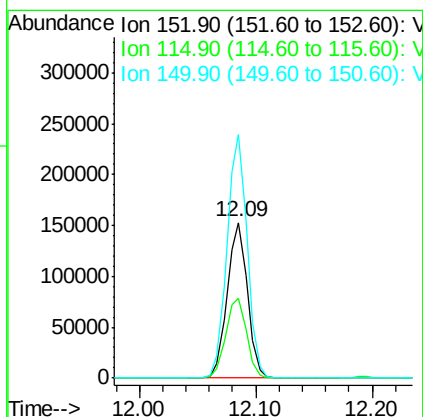
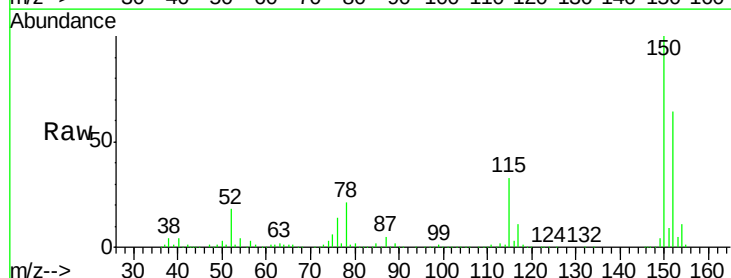
Instrument :
MSVOA_X
ClientSampled :
MS-SOIL

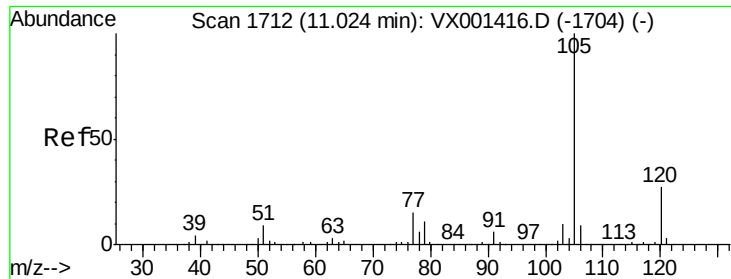
Tgt Ion:106 Resp: 14967
Ion Ratio Lower Upper
106 100
91 211.6 103.1 309.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX001501.D
Acq: 08 May 2018 07:45

Tgt Ion:152 Resp: 183052
Ion Ratio Lower Upper
152 100
115 52.8 37.7 113.1
150 156.3 0.0 349.4





#73

Isopropylbenzene

Concen: 0.63 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

Instrument :

MSVOA_X

ClientSampled :

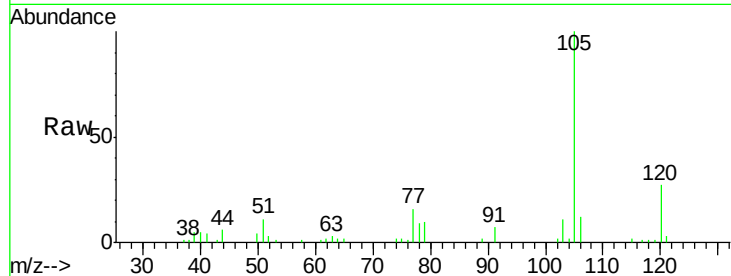
MS-SOIL

Tgt Ion: 105 Resp: 7925

Ion Ratio Lower Upper

105 100

120 26.4 13.6 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.02

6000

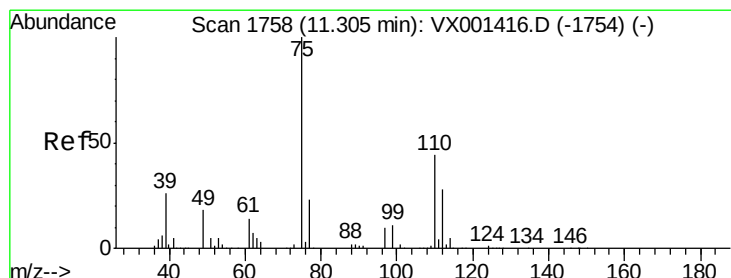
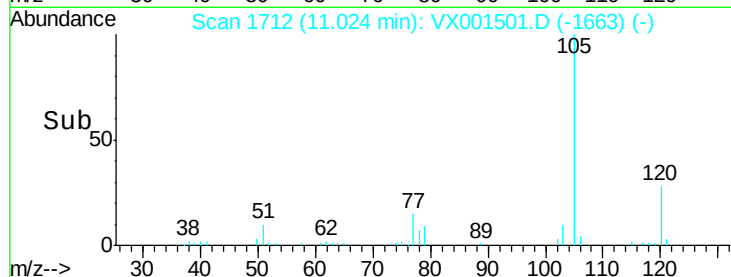
4000

2000

0

Time-->

11.00 11.05



#76

1,2,3-Trichloropropane

Concen: 23.04 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001501.D

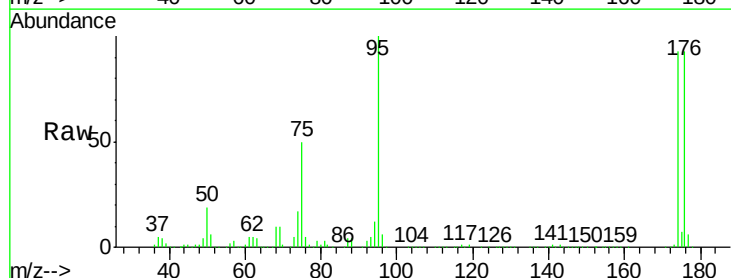
Acq: 08 May 2018 07:45

Tgt Ion: 75 Resp: 85528

Ion Ratio Lower Upper

75 100

77 1.4 19.6 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

80000

60000

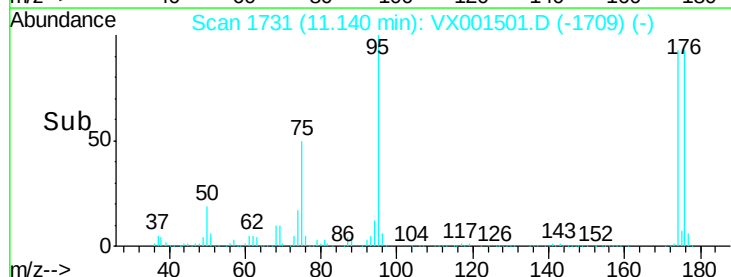
40000

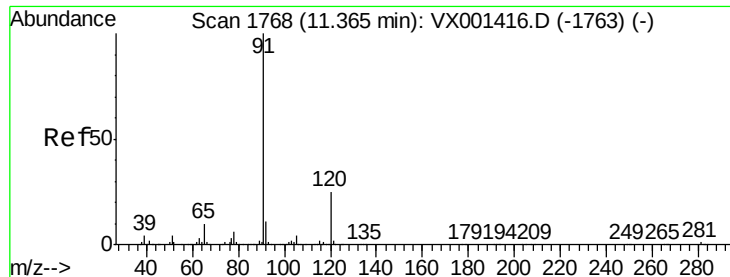
20000

0

Time-->

11.05 11.10 11.15 11.20





#78

n-propylbenzene

Concen: 0.21 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

Instrument :

MSVOA_X

ClientSampled :

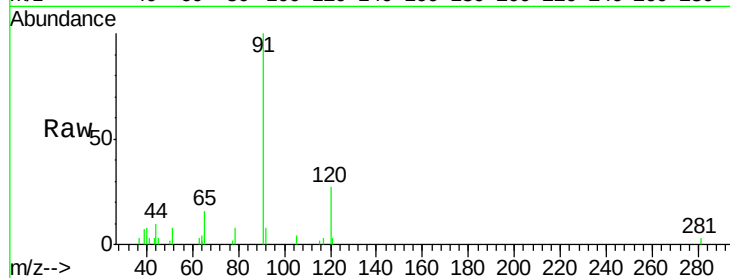
MS-SOIL

Tgt Ion: 91 Resp: 2914

Ion Ratio Lower Upper

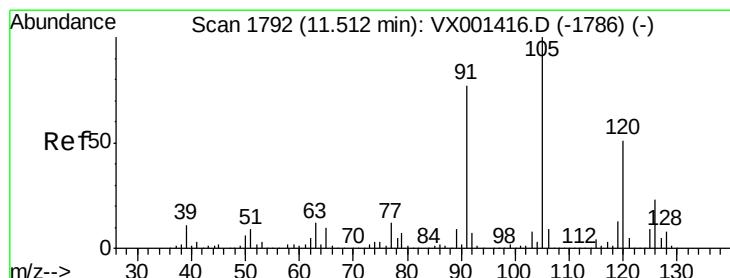
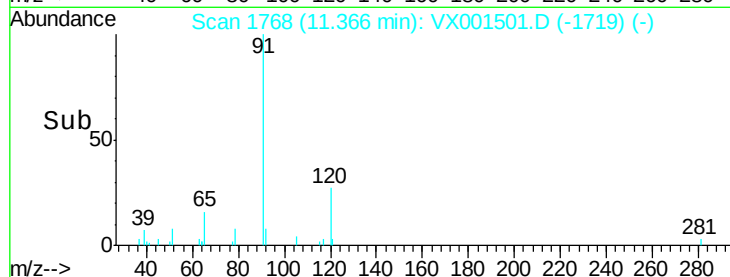
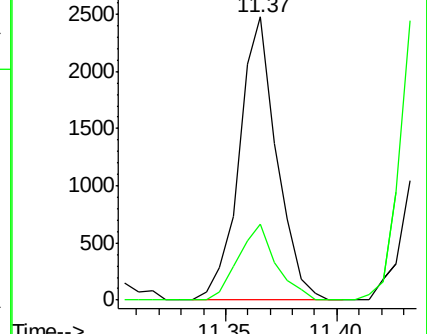
91 100

120 26.8 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 0.87 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX001501.D

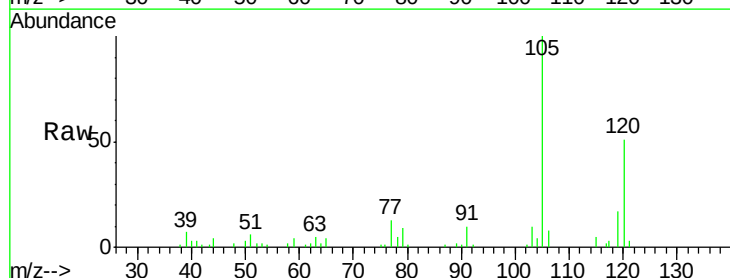
Acq: 08 May 2018 07:45

Tgt Ion: 105 Resp: 9180

Ion Ratio Lower Upper

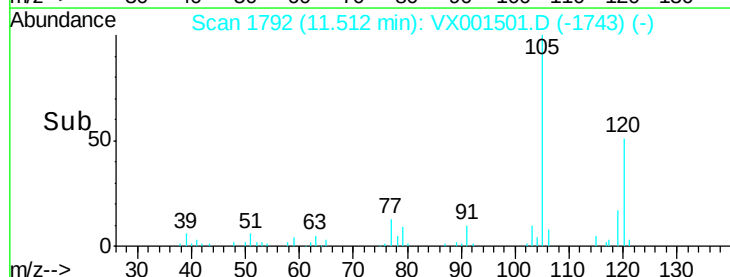
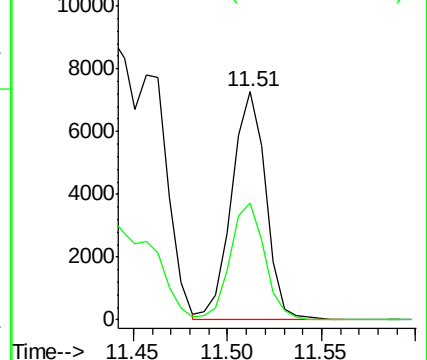
105 100

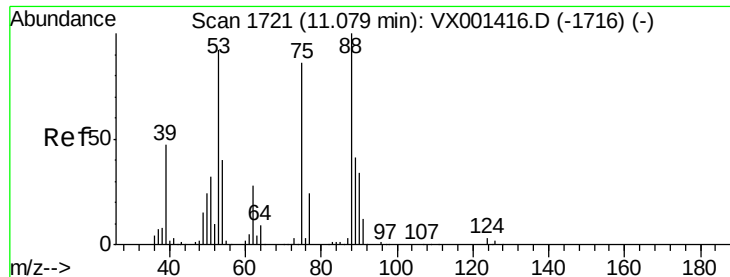
120 51.4 25.7 77.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

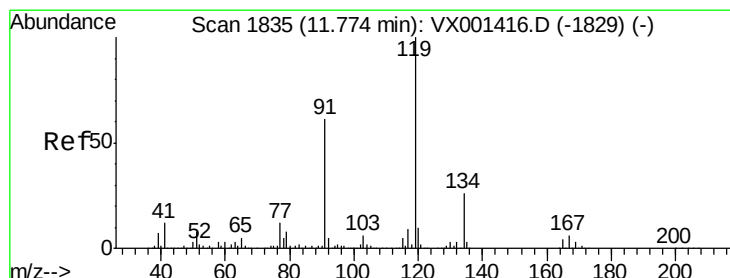
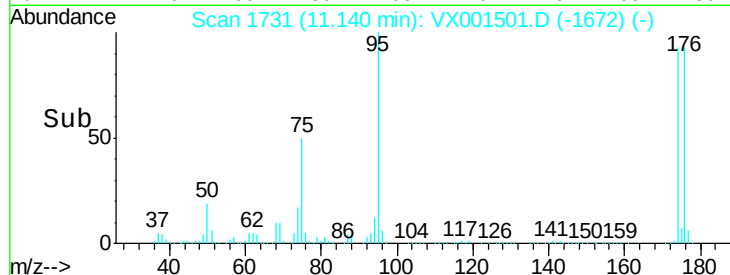
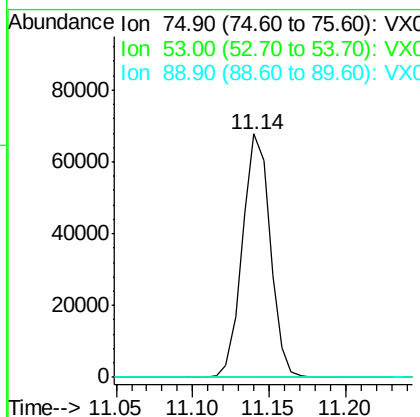
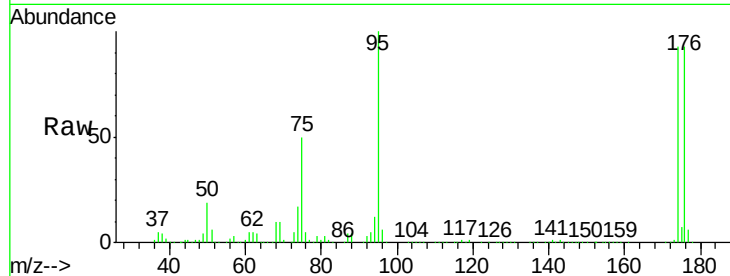




#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.44 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001501.D
 Acq: 08 May 2018 07:45

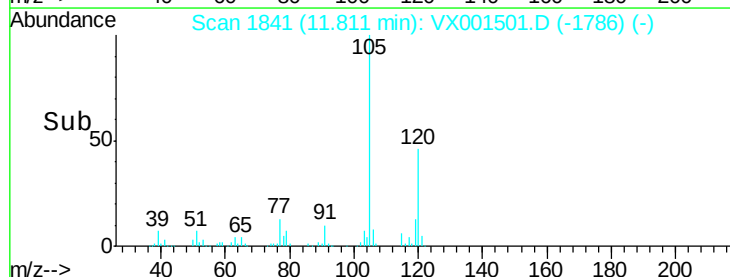
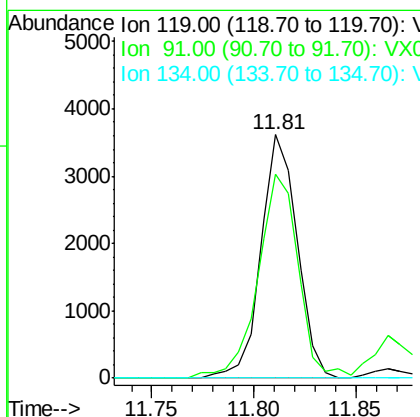
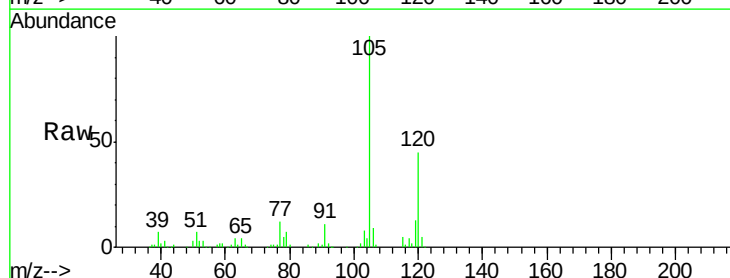
Instrument :
 MSVOA_X
 ClientSampled :
 MS-SOIL

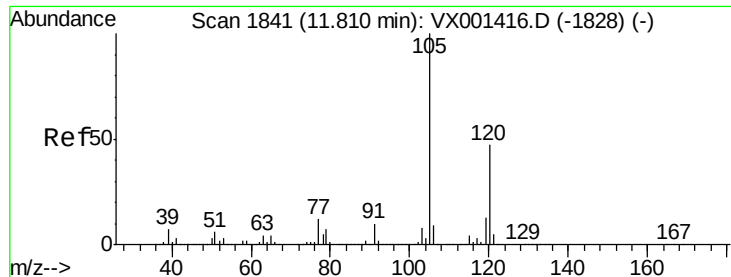
Tgt Ion: 75 Resp: 85528
 Ion Ratio Lower Upper
 75 100
 53 0.1 84.5 126.7#
 89 0.0 39.5 59.3#



#83
 tert-Butylbenzene
 Concen: 0.43 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.04 min
 Lab File: VX001501.D
 Acq: 08 May 2018 07:45

Tgt Ion: 119 Resp: 4474
 Ion Ratio Lower Upper
 119 100
 91 93.6 27.8 83.3#
 134 0.0 12.4 37.0#





#84

1,2,4-Trimethylbenzene

Concen: 3.20 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

Instrument :

MSVOA_X

ClientSampled :

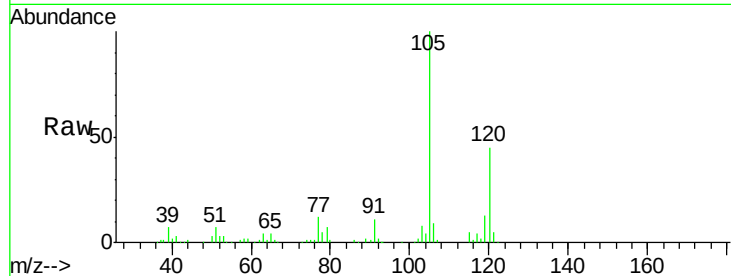
MS-SOIL

Tgt Ion:105 Resp: 34726

Ion Ratio Lower Upper

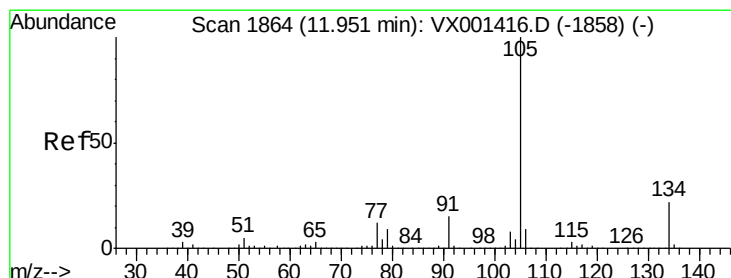
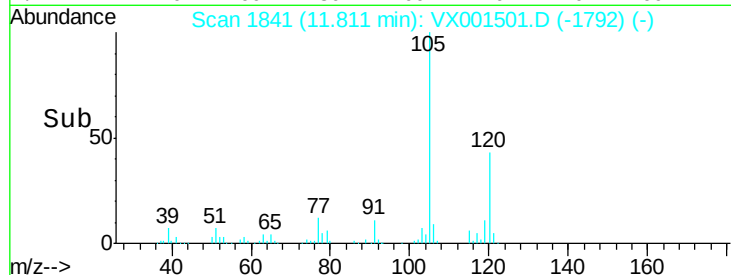
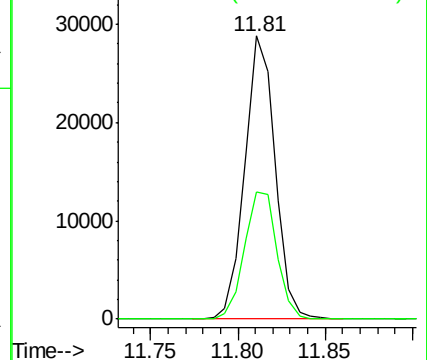
105 100

120 48.1 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 2.76 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.14 min

Lab File: VX001501.D

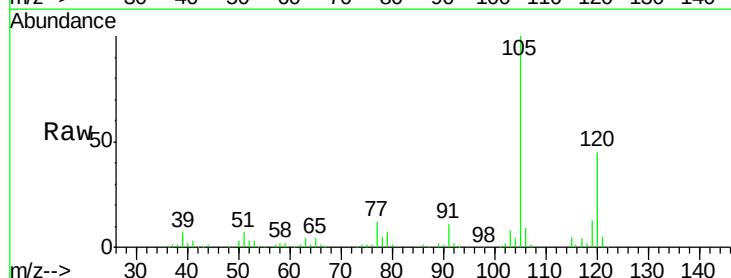
Acq: 08 May 2018 07:45

Tgt Ion:105 Resp: 34726

Ion Ratio Lower Upper

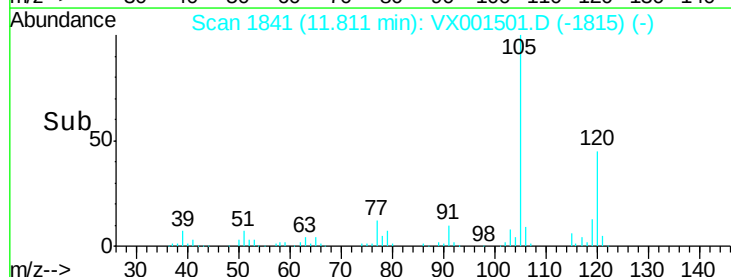
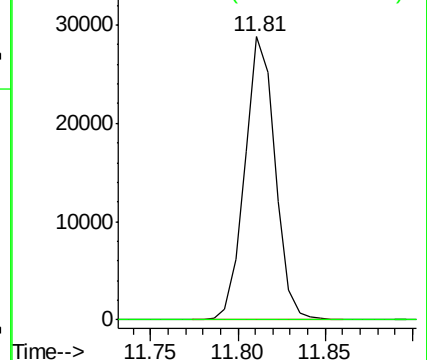
105 100

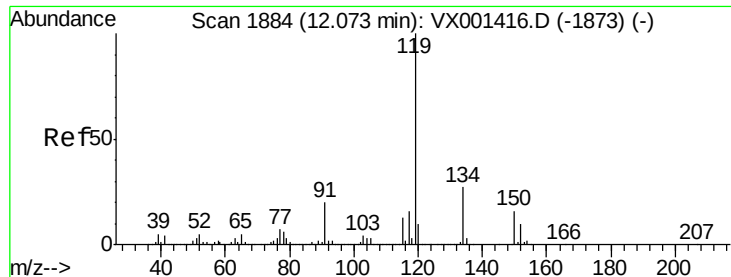
134 0.0 10.9 32.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

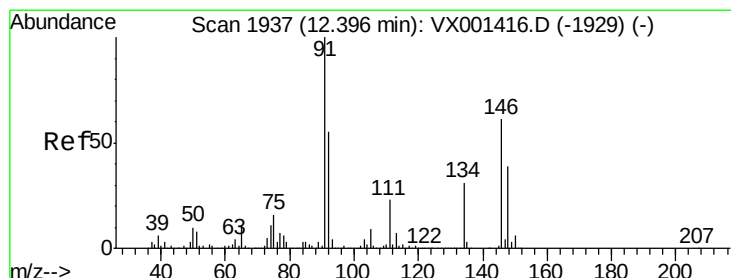
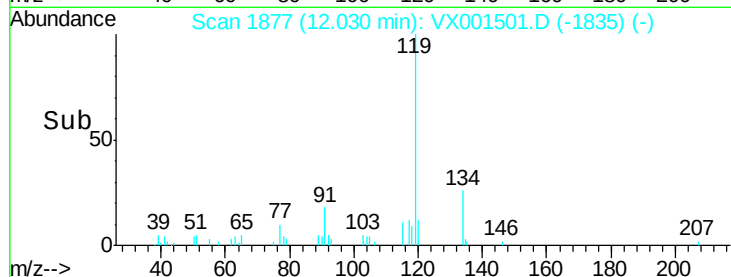
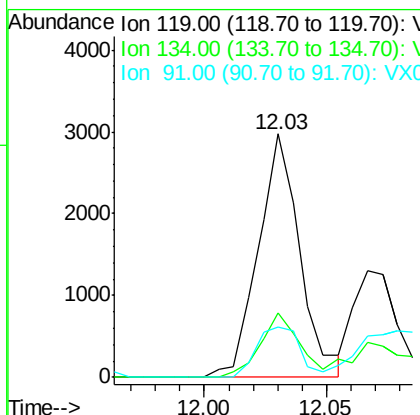
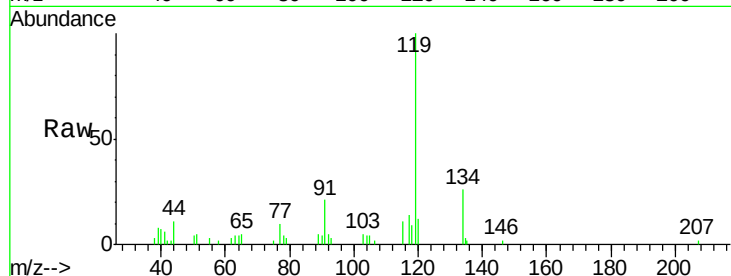




#86
 p-Isopropyltoluene
 Concen: 0.31 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. -0.04 min
 Lab File: VX001501.D
 Acq: 08 May 2018 07:45

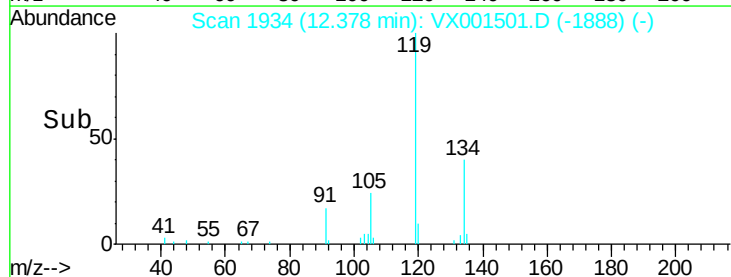
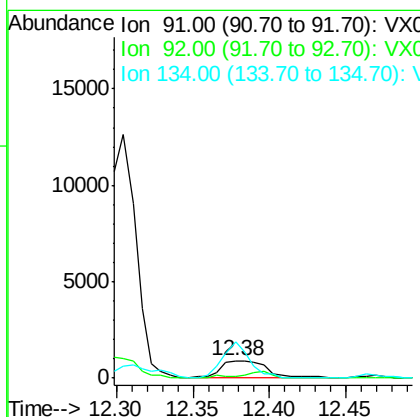
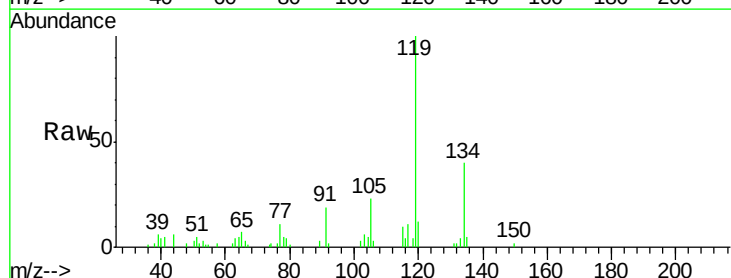
Instrument :
 MSVOA_X
 ClientSampleId :
 MS-SOIL

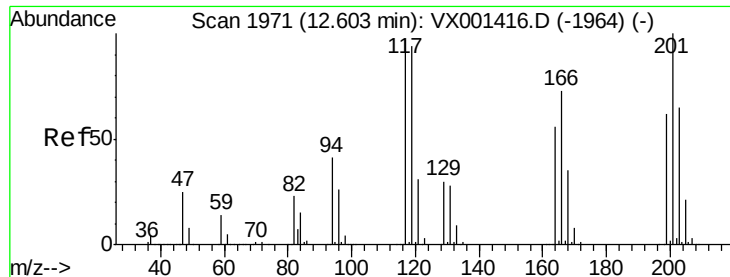
Tgt Ion: 119 Resp: 3530
 Ion Ratio Lower Upper
 119 100
 134 25.2 13.6 40.8
 91 22.0 10.8 32.3



#89
 n-Butylbenzene
 Concen: 0.20 ug/l
 RT: 12.38 min Scan# 1934
 Delta R.T. -0.02 min
 Lab File: VX001501.D
 Acq: 08 May 2018 07:45

Tgt Ion: 91 Resp: 1924
 Ion Ratio Lower Upper
 91 100
 92 25.0 27.2 81.5#
 134 120.1 14.6 44.0#





#90

Hexachloroethane

Concen: 5.25 ug/l

RT: 12.76 min Scan# 1997

Delta R.T. 0.16 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

Instrument :

MSVOA_X

ClientSampleId :

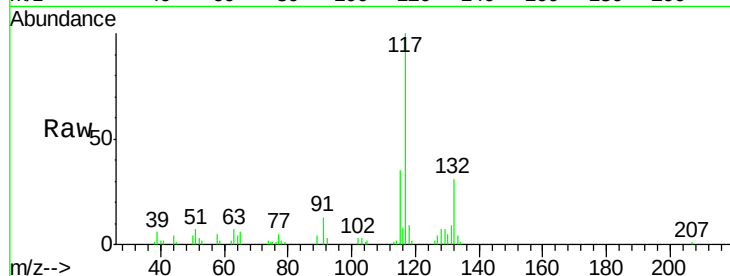
MS-SOIL

Tgt Ion:117 Resp: 9143

Ion Ratio Lower Upper

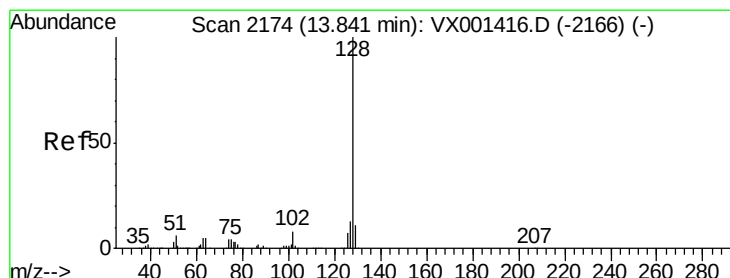
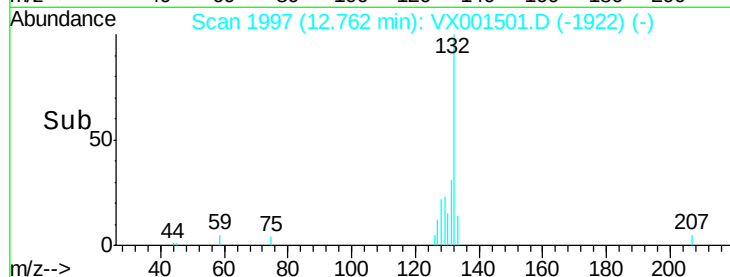
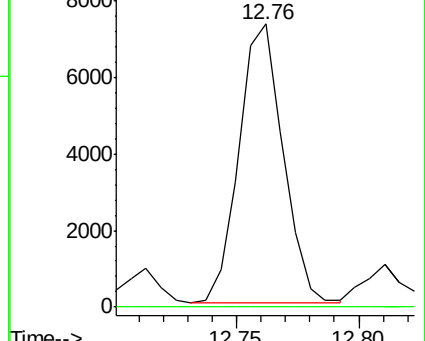
117 100

201 0.0 51.5 154.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 74.88 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001501.D

Acq: 08 May 2018 07:45

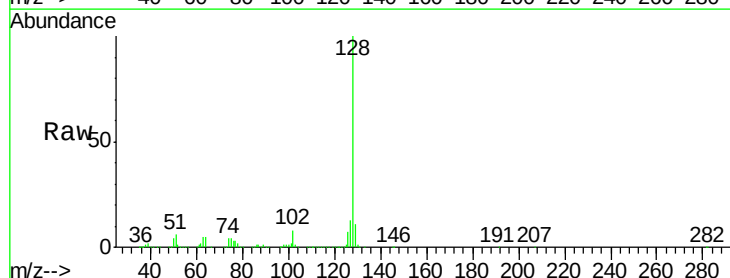
Tgt Ion:128 Resp: 1015432

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

129 11.0 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

