

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\
 Data File : VX003272.D
 Acq On : 10 Jul 2018 04:04
 Operator : JC/MD
 Sample : J3896-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 JC-SOIL

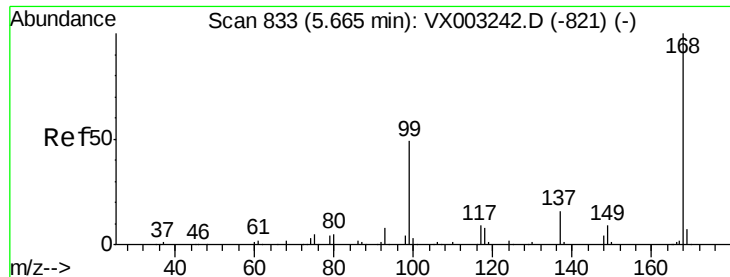
Quant Time: Jul 10 05:04:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	252561	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	358519	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	335398	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	184847	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	165148	41.55	ug/l	0.00
Spiked Amount			Recovery	=	83.10%	
35) Dibromofluoromethane	5.51	113	139031	36.10	ug/l	0.00
Spiked Amount			Recovery	=	72.20%	
50) Toluene-d8	8.72	98	501475	36.65	ug/l	0.00
Spiked Amount			Recovery	=	73.30%	
62) 4-Bromofluorobenzene	11.14	95	176858	34.98	ug/l	0.00
Spiked Amount			Recovery	=	69.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	890	0.25	ug/l	# 86
5) Bromomethane	1.66	94	1915	Below	Cal	84
10) Methyl Iodide	2.52	142	1625	6.07	ug/l	# 96
11) Tert butyl alcohol	3.08	59	736	1.02	ug/l	# 86
13) Acrolein	2.30	56	240	0.41	ug/l	# 82
16) Acetone	2.45	43	21798	15.45	ug/l	96
17) Carbon Disulfide	2.57	76	2294	0.29	ug/l	# 90
18) Methyl Acetate	2.78	43	22259	5.59	ug/l	94
20) Methylene Chloride	2.86	84	10882	3.10	ug/l	93
25) 2-Butanone	4.72	43	5590	2.24	ug/l	97
29) Tetrahydrofuran	5.18	42	2002	1.24	ug/l	94
30) Chloroform	5.22	83	4230	0.69	ug/l	93
31) Cyclohexane	5.65	56	4242	0.81	ug/l	# 30
36) 1,1-Dichloropropene	5.67	75	16029	3.16	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	22353	4.03	ug/l	# 17
47) Bromodichloromethane	7.90	83	1111	0.23	ug/l	# 78
51) 4-Methyl-2-Pentanone	8.66	43	1529	0.28	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	87518	21.91	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	87518	71.60	ug/l	# 7
95) Naphthalene	13.84	128	12322	0.83	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

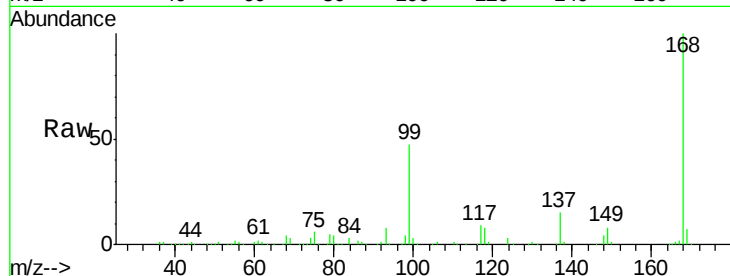
JC-SOIL

Tot Ion:168 Resp: 252561

Ion Ratio Lower Upper

168 100

99 46.6 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

80000

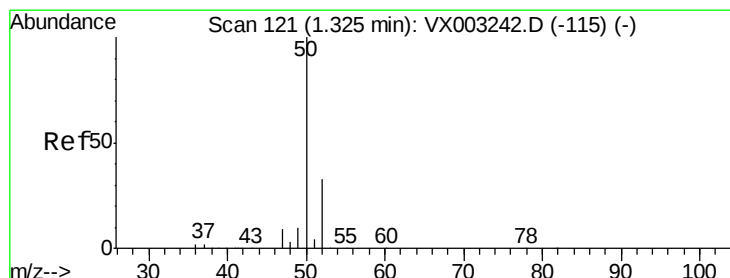
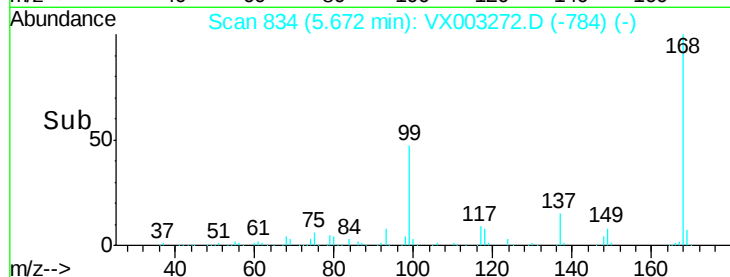
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003272.D

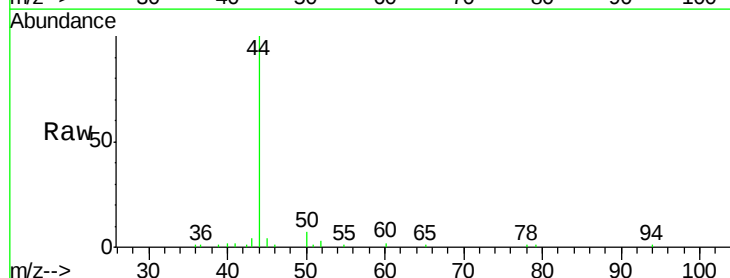
Acq: 10 Jul 2018 04:04

Tgt Ion: 50 Resp: 890

Ion Ratio Lower Upper

50 100

52 39.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

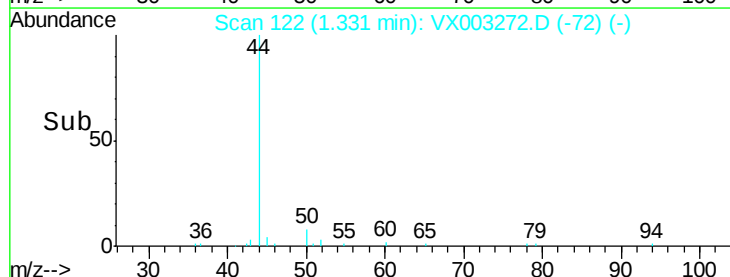
300

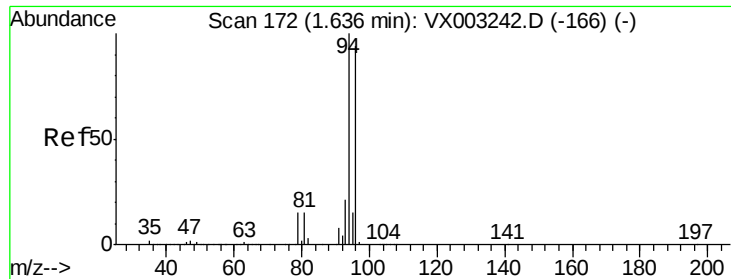
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

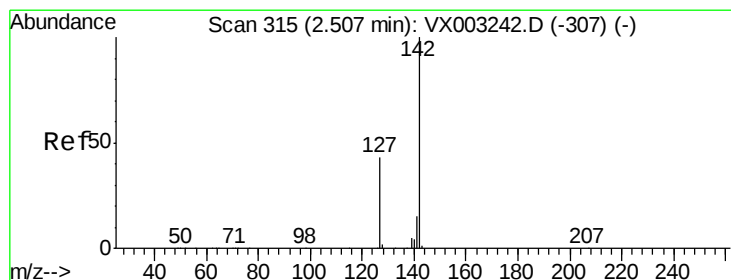
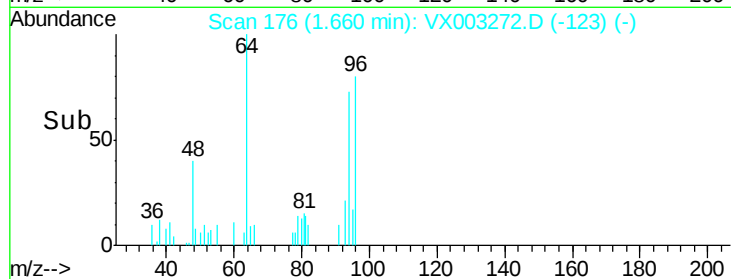
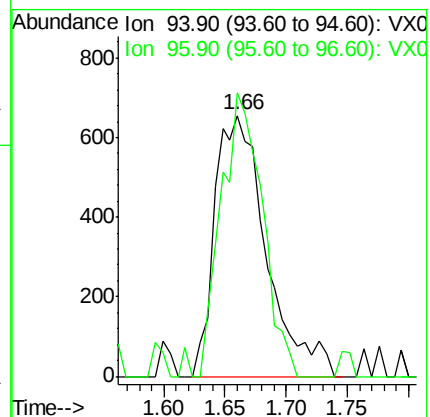
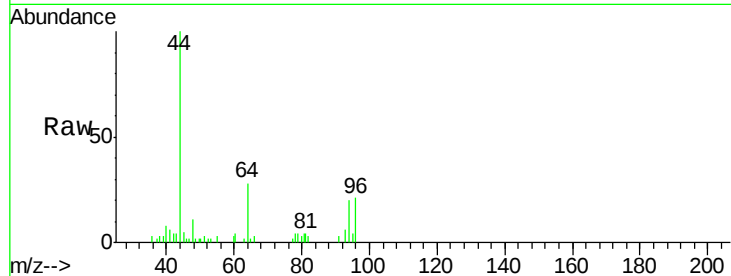
JC-SOIL

Tot Ion: 94 Resp: 1915

Ion Ratio Lower Upper

94 100

96 108.5 74.9 112.3



#10

Methyl Iodide

Concen: 6.07 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

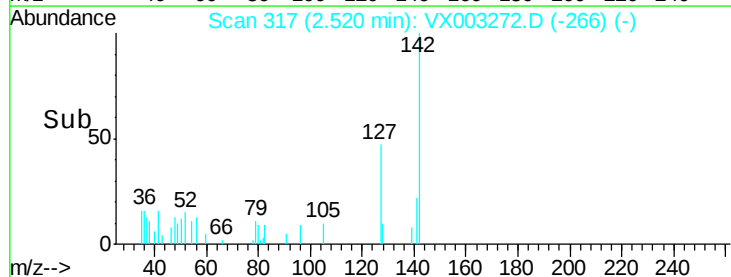
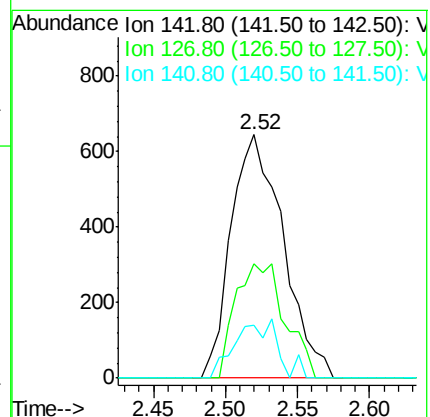
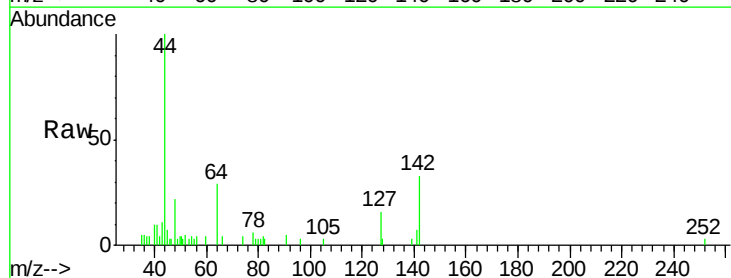
Tgt Ion: 142 Resp: 1625

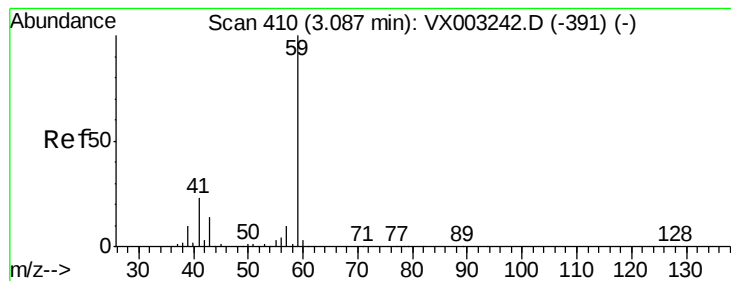
Ion Ratio Lower Upper

142 100

127 44.8 36.6 55.0

141 18.2 11.3 16.9#



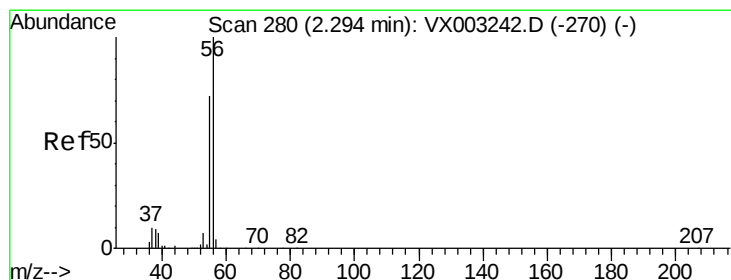
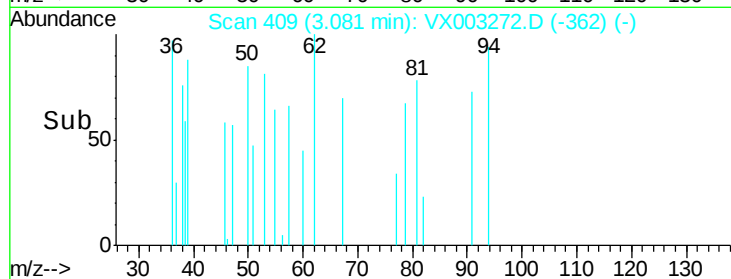
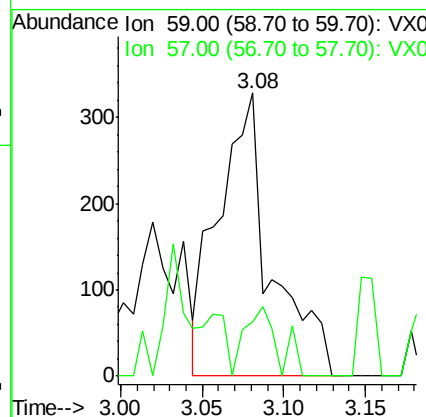
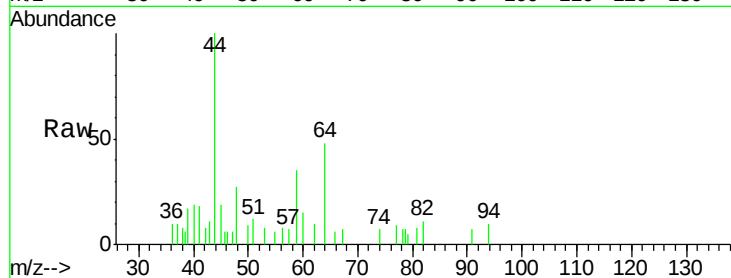


#11

Tert butyl alcohol
Concen: 1.02 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.01 min
Lab File: VX003272.D
Acq: 10 Jul 2018 04:04

Instrument :
MSVOA_X
ClientSampled :
JC-SOIL

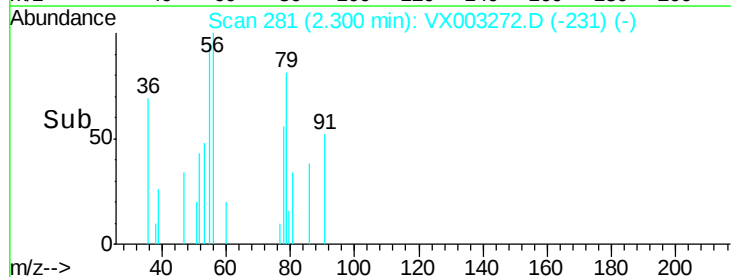
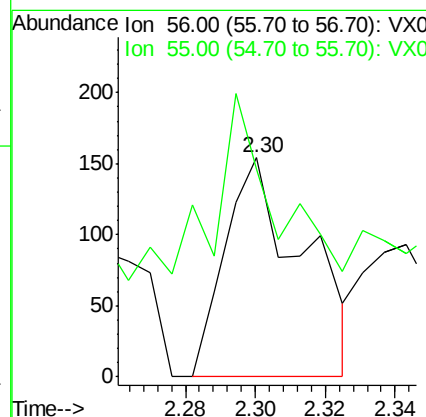
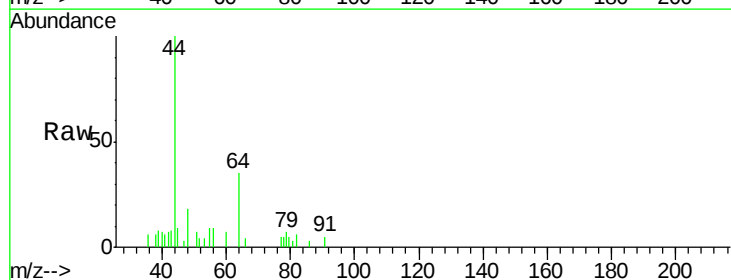
Tot Ion: 59 Resp: 736
Ion Ratio Lower Upper
59 100
57 15.5 8.2 12.2#

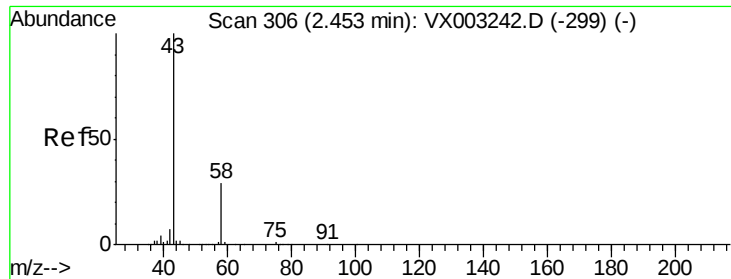


#13

Acrolein
Concen: 0.41 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX003272.D
Acq: 10 Jul 2018 04:04

Tgt Ion: 56 Resp: 240
Ion Ratio Lower Upper
56 100
55 56.3 57.0 85.4#





#16

Acetone

Concen: 15.45 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampled :

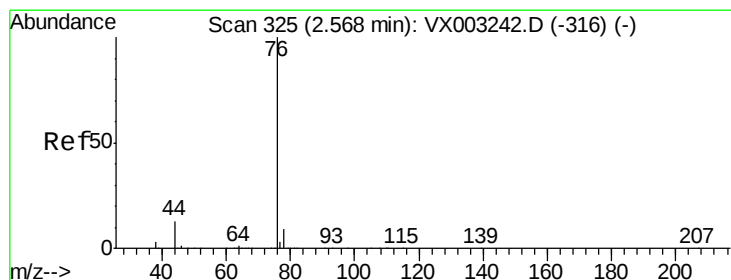
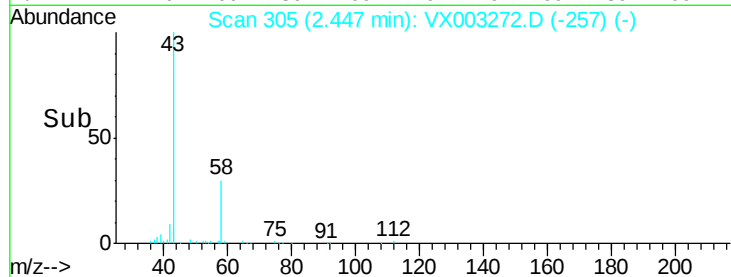
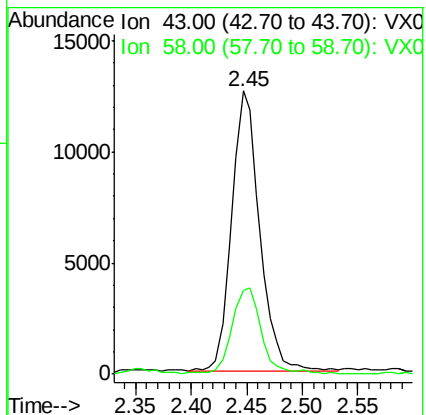
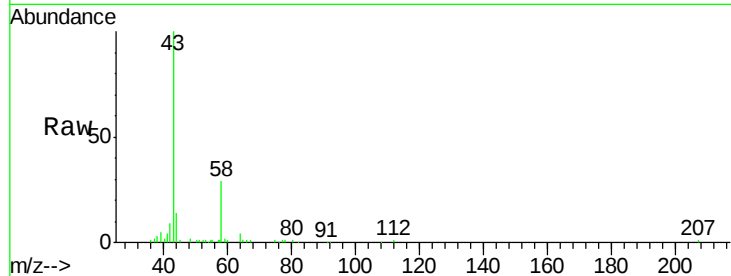
JC-SOIL

Tot Ion: 43 Resp: 21798

Ion Ratio Lower Upper

43 100

58 29.8 22.1 33.1



#17

Carbon Disulfide

Concen: 0.29 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003272.D

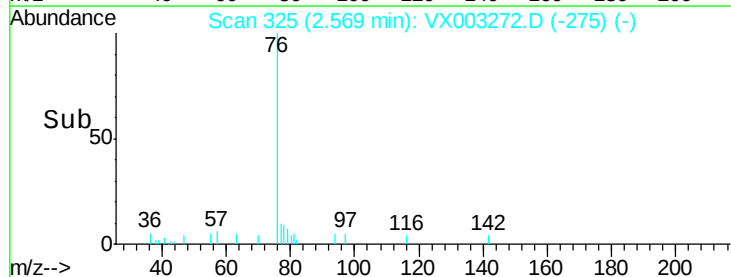
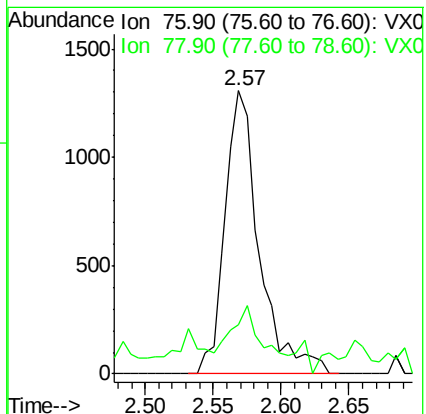
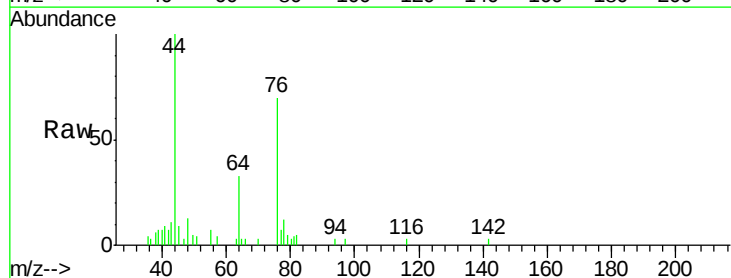
Acq: 10 Jul 2018 04:04

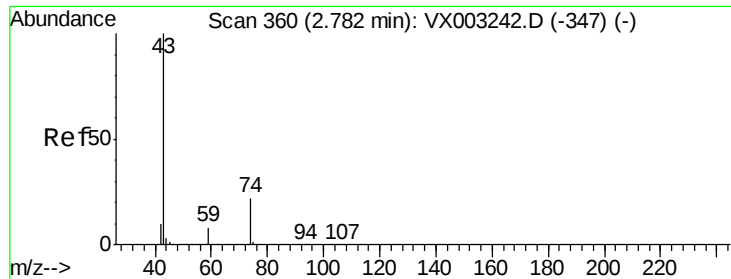
Tgt Ion: 76 Resp: 2294

Ion Ratio Lower Upper

76 100

78 12.1 6.9 10.3#

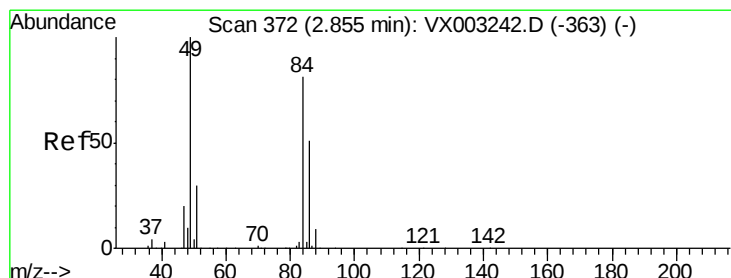
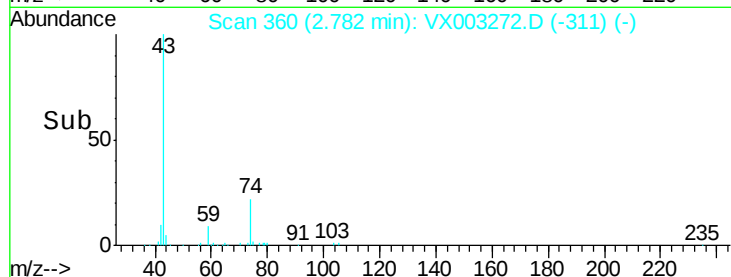
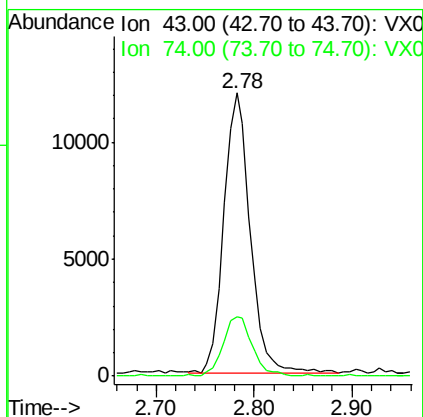
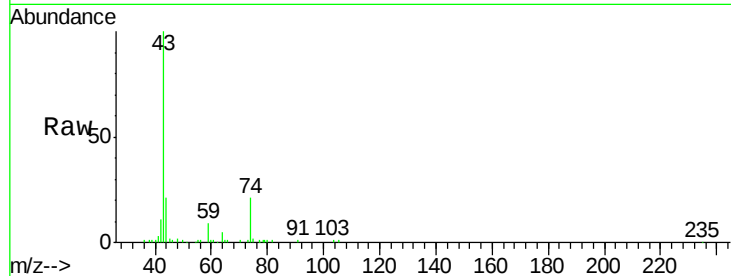




#18
Methvl Acetate
Concen: 5.59 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003272.D
Acq: 10 Jul 2018 04:04

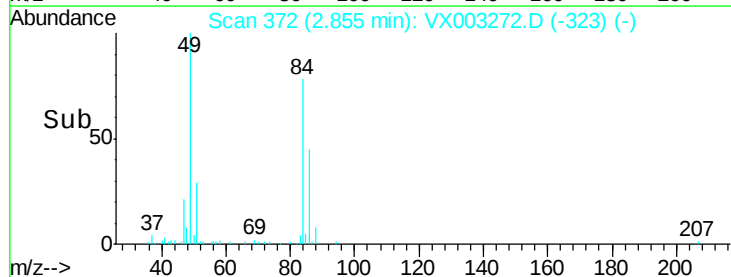
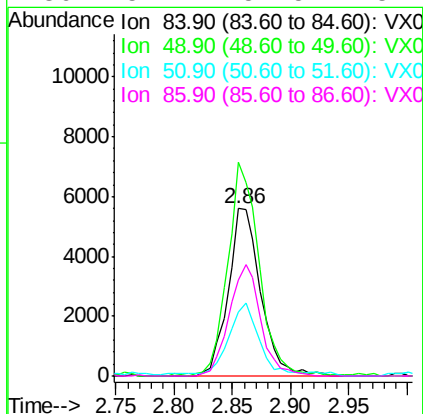
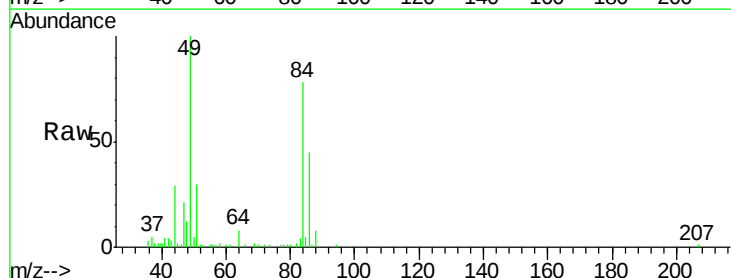
Instrument :
MSVOA_X
ClientSampled :
JC-SOIL

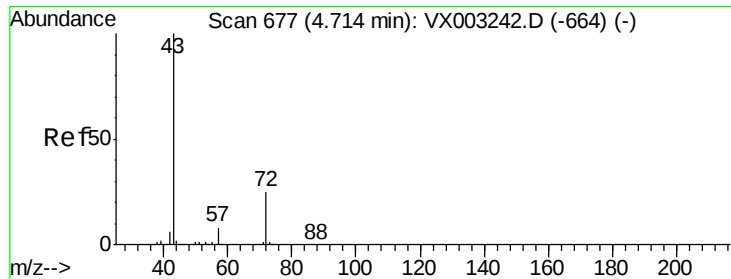
Tot Ion: 43 Resp: 22259
Ion Ratio Lower Upper
43 100
74 23.6 16.7 25.1



#20
Methylene Chloride
Concen: 3.10 ug/l
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003272.D
Acq: 10 Jul 2018 04:04

Tgt Ion: 84 Resp: 10882
Ion Ratio Lower Upper
84 100
49 127.6 107.8 161.6
51 37.5 32.8 49.2
86 57.1 52.5 78.7





#25

2-Butanone

Concen: 2.24 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

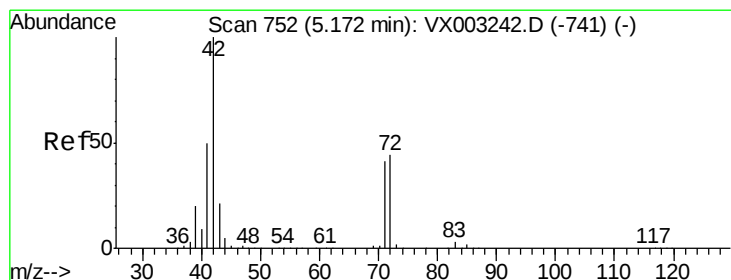
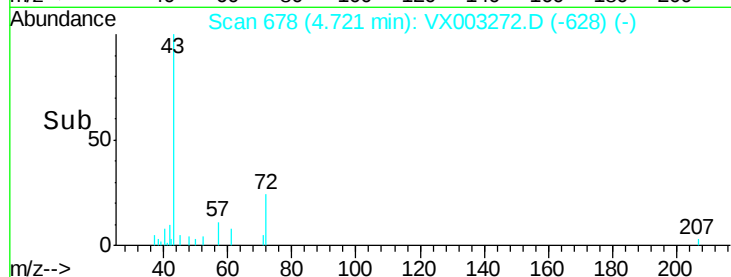
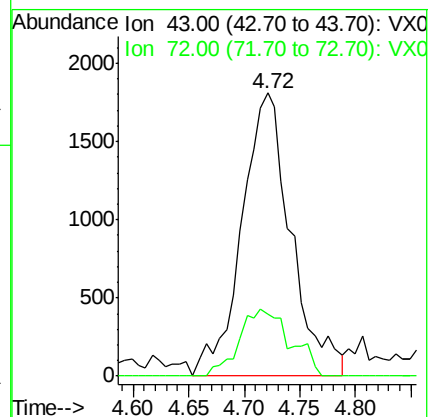
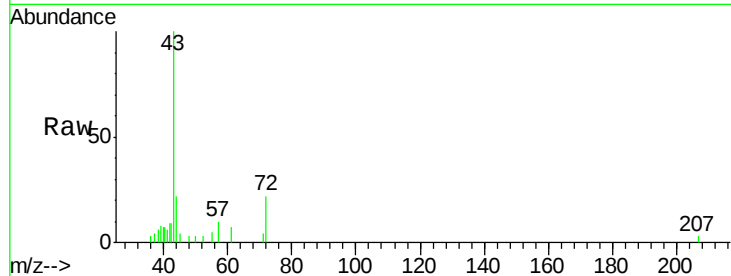
JC-SOIL

Tot Ion: 43 Resp: 5590

Ion Ratio Lower Upper

43 100

72 21.9 18.5 27.7



#29

Tetrahydrofuran

Concen: 1.24 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

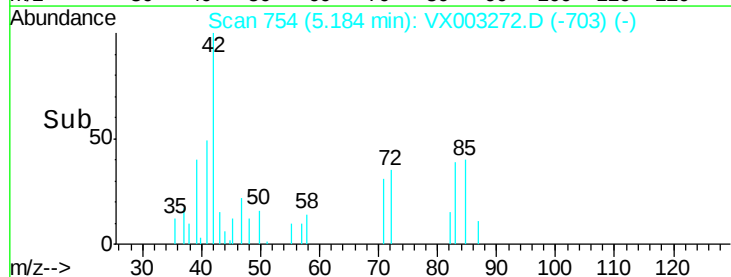
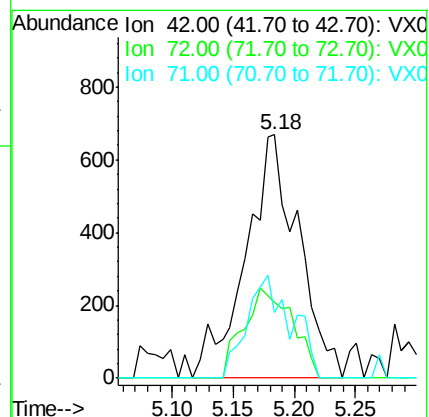
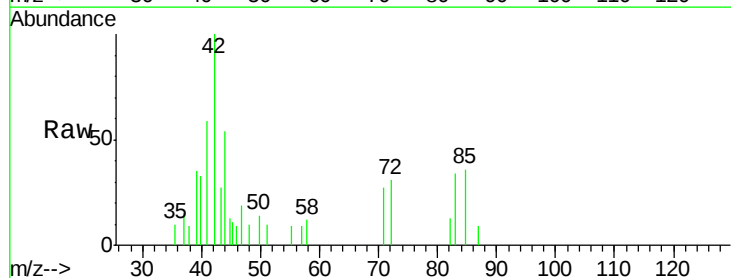
Tgt Ion: 42 Resp: 2002

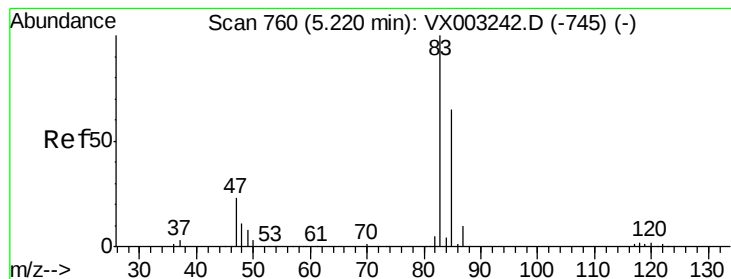
Ion Ratio Lower Upper

42 100

72 34.3 32.0 48.0

71 35.7 30.1 45.1





#30

Chloroform

Concen: 0.69 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

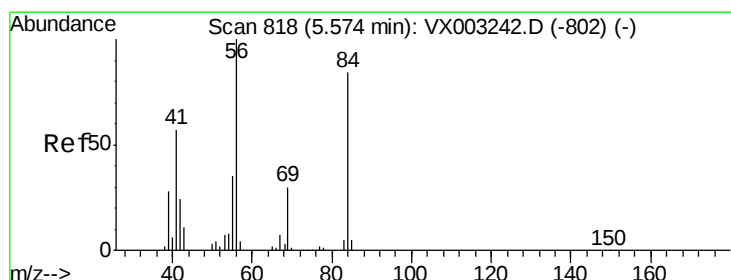
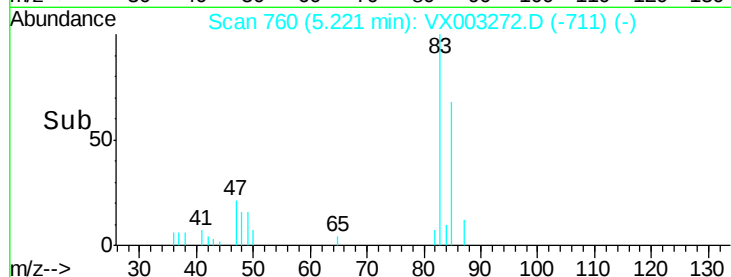
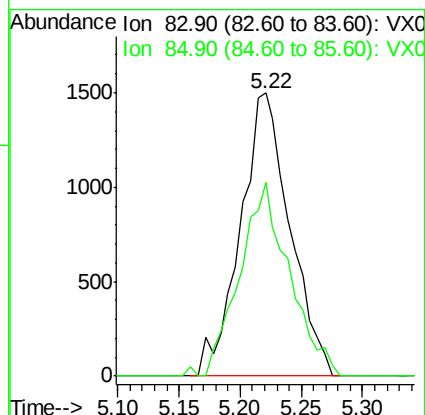
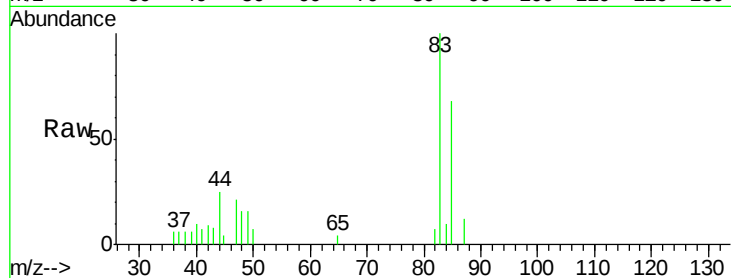
JC-SOIL

Tot Ion: 83 Resp: 4230

Ion Ratio Lower Upper

83 100

85 68.4 50.4 75.6



#31

Cyclohexane

Concen: 0.81 ug/l

RT: 5.65 min Scan# 831

Delta R.T. 0.08 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

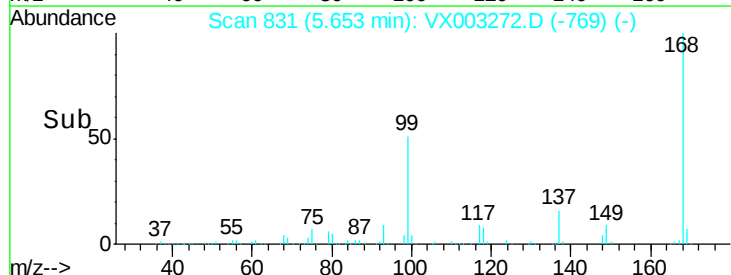
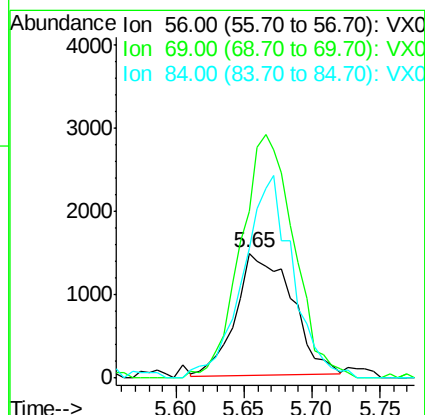
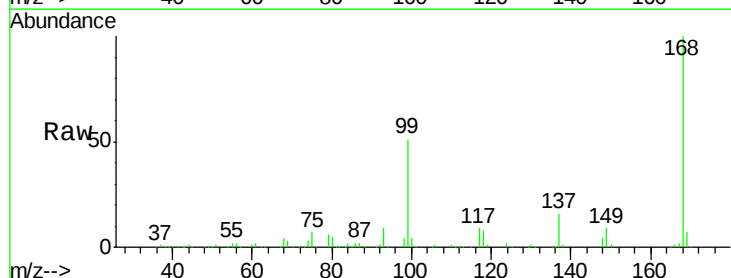
Tgt Ion: 56 Resp: 4242

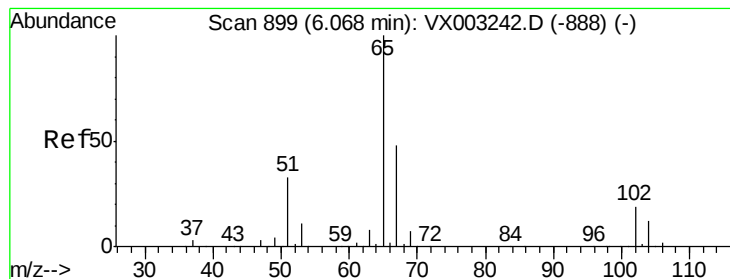
Ion Ratio Lower Upper

56 100

69 133.3 23.7 35.5#

84 101.9 64.1 96.1#





#33

1,2-Dichloroethane-d4

Concen: 41.55 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

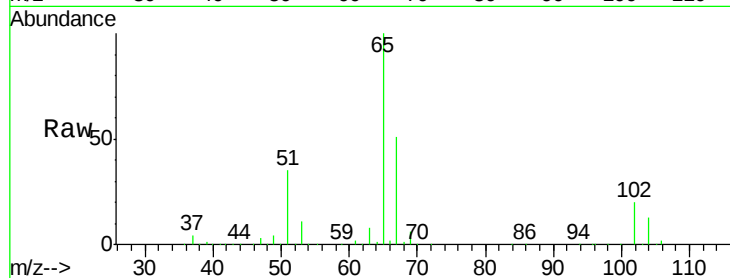
JC-SOIL

Tot Ion: 65 Resp: 165148

Ion Ratio Lower Upper

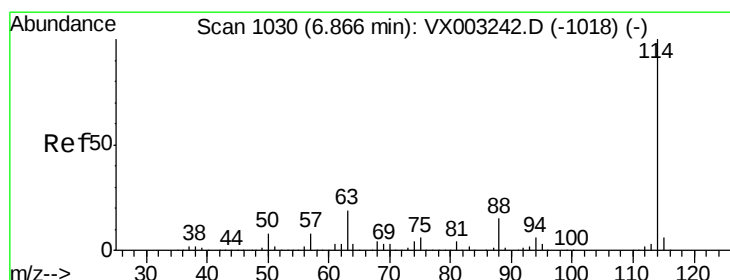
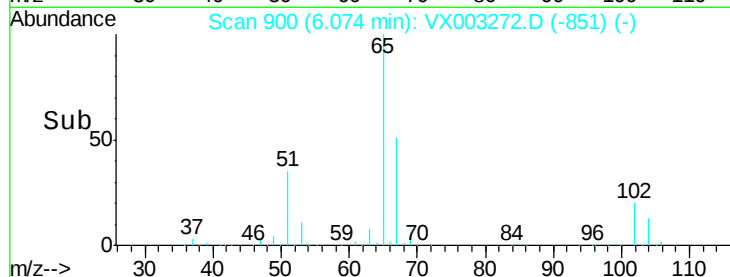
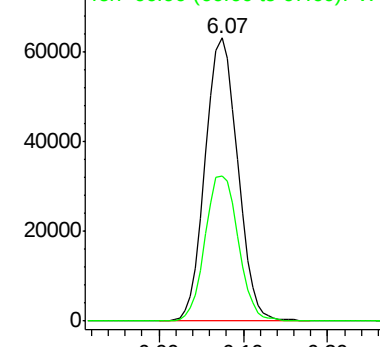
65 100

67 52.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

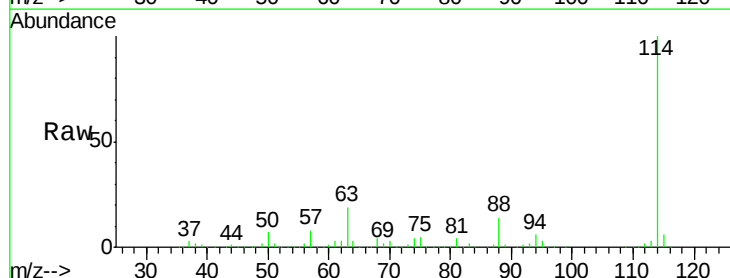
Tgt Ion: 114 Resp: 358519

Ion Ratio Lower Upper

114 100

63 19.0 0.0 41.4

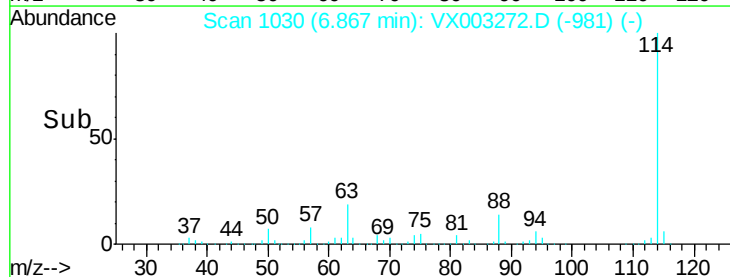
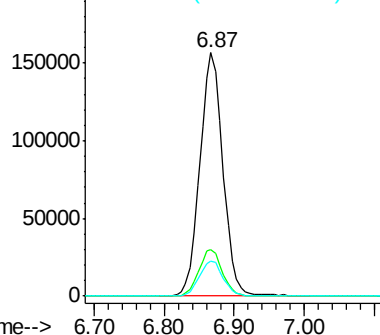
88 14.3 0.0 30.0

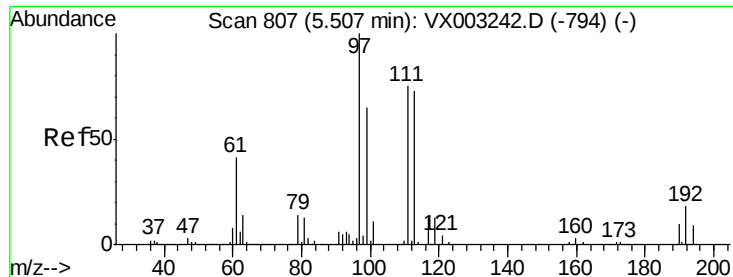


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 36.10 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

JC-SOIL

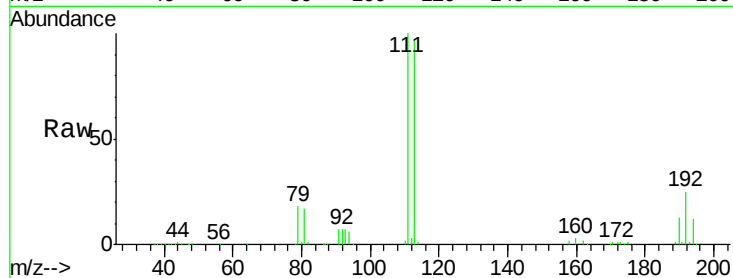
Tot Ion:113 Resp: 139031

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

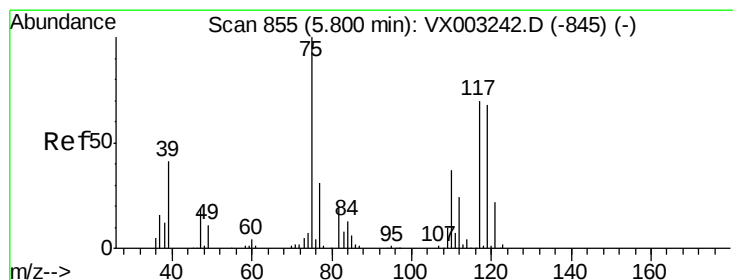
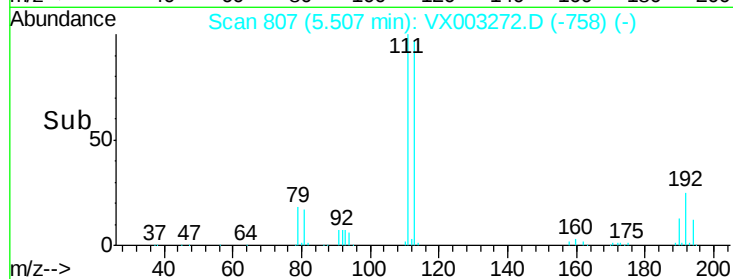
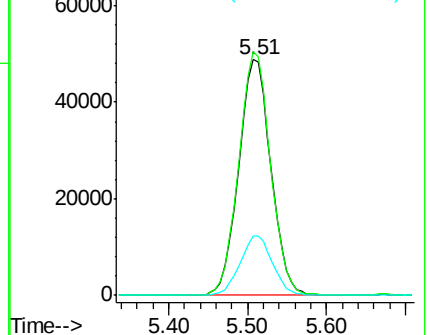
192 25.5 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.16 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

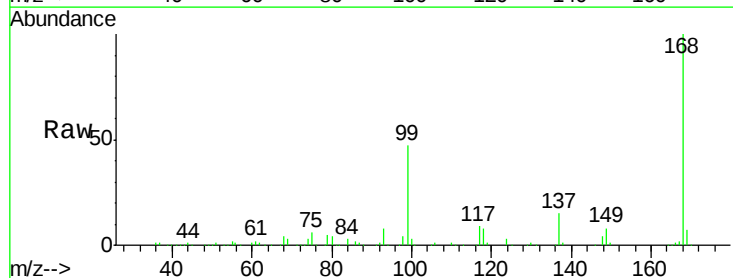
Tgt Ion: 75 Resp: 16029

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

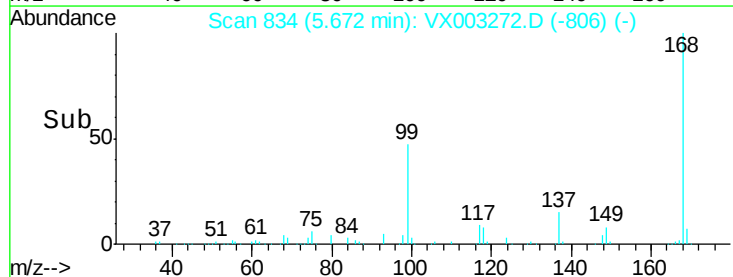
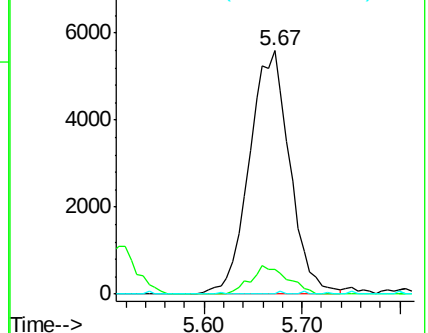
77 0.2 24.3 36.5#

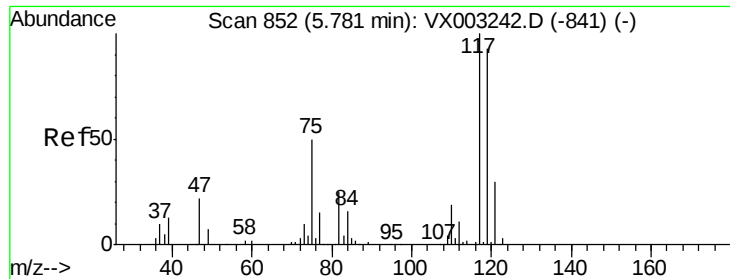


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.03 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampled :

JC-SOIL

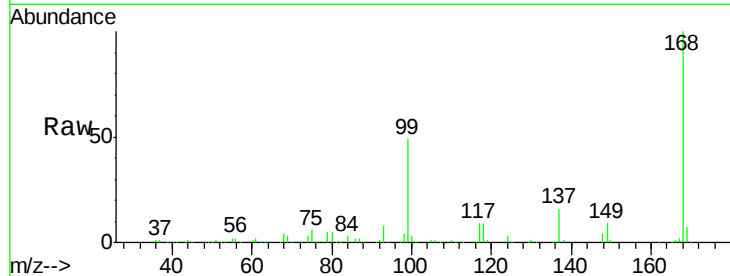
Tot Ion:117 Resp: 22353

Ion Ratio Lower Upper

117 100

119 6.3 77.4 116.0#

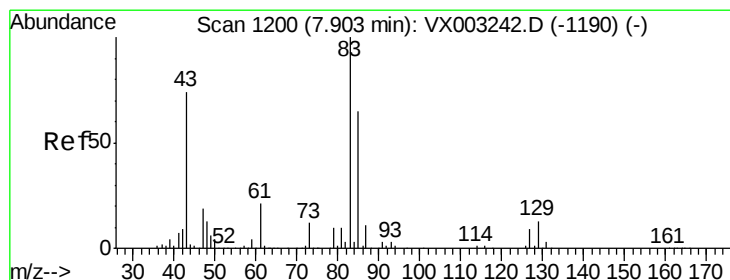
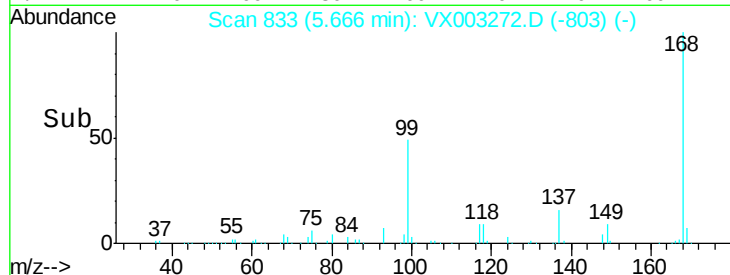
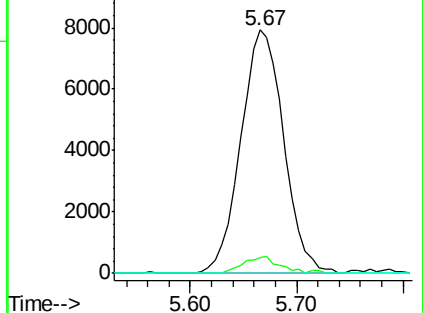
121 0.0 24.4 36.6#



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



#47

Bromodichloromethane

Concen: 0.23 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

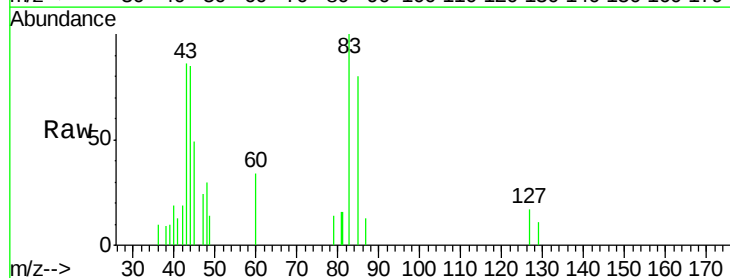
Tgt Ion: 83 Resp: 1111

Ion Ratio Lower Upper

83 100

85 80.0 50.3 75.5#

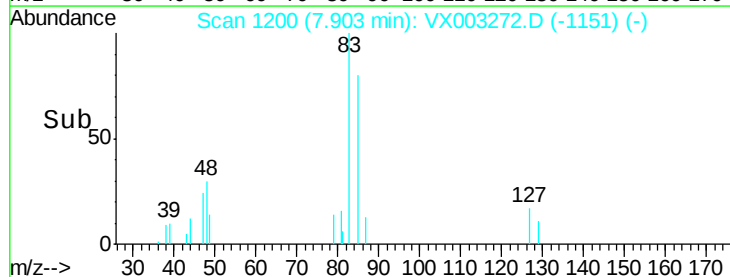
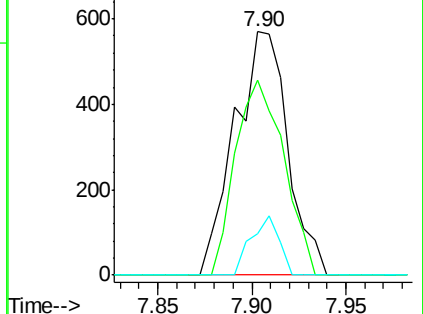
127 16.8 7.0 10.4#

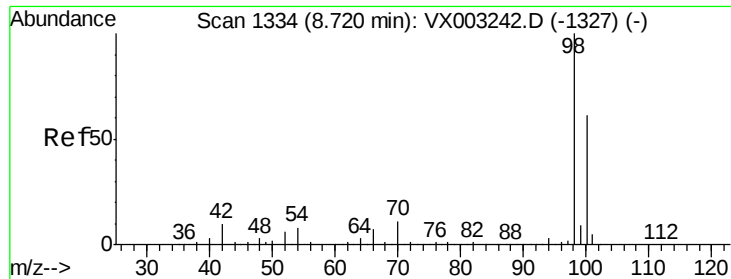


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

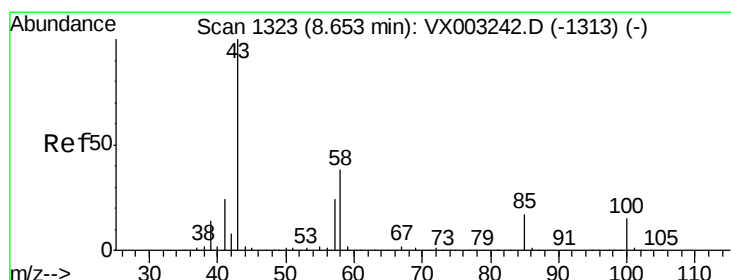
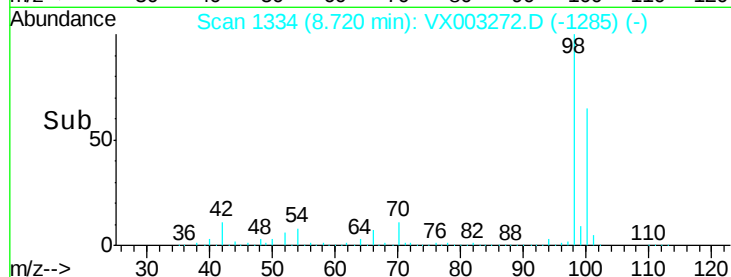
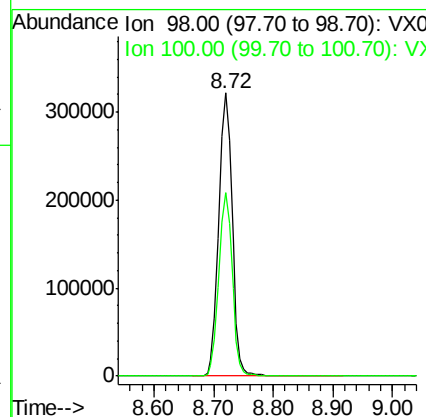
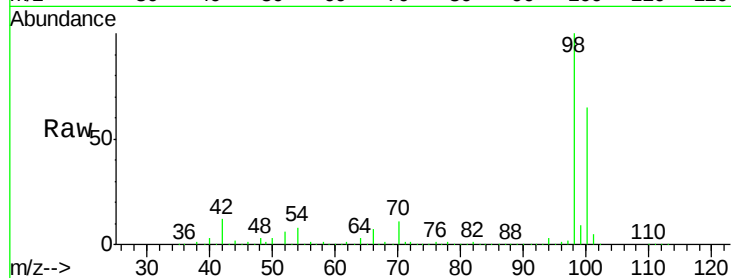




#50
Toluene-d8
Concen: 36.65 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003272.D
Acq: 10 Jul 2018 04:04

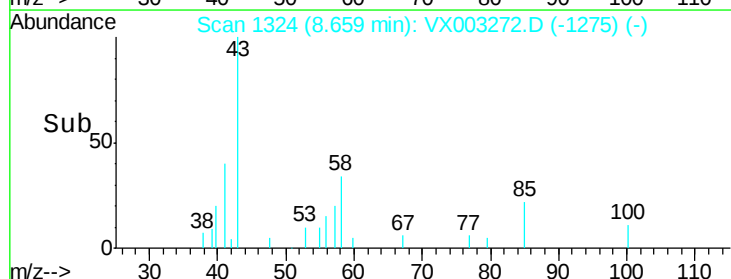
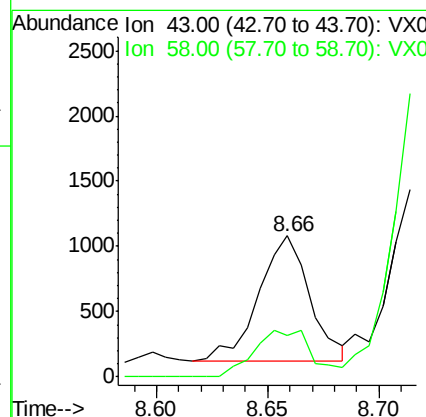
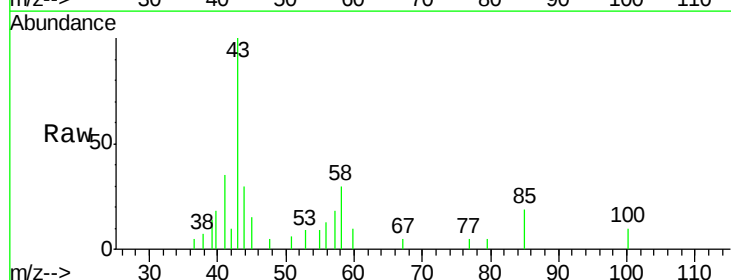
Instrument :
MSVOA_X
ClientSampleId :
JC-SOIL

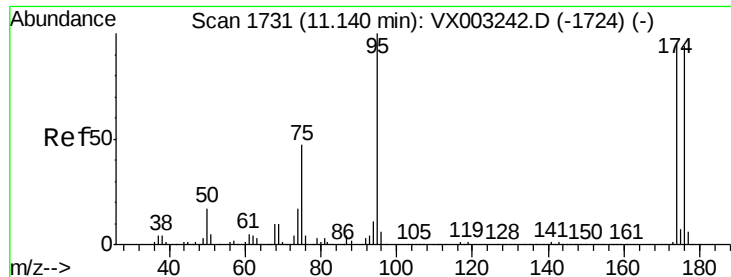
Tot Ion: 98 Resp: 501475
Ion Ratio Lower Upper
98 100
100 64.5 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.28 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.00 min
Lab File: VX003272.D
Acq: 10 Jul 2018 04:04

Tgt Ion: 43 Resp: 1529
Ion Ratio Lower Upper
43 100
58 42.3 28.6 42.8





#62

4-Bromofluorobenzene

Concen: 34.98 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

JC-SOIL

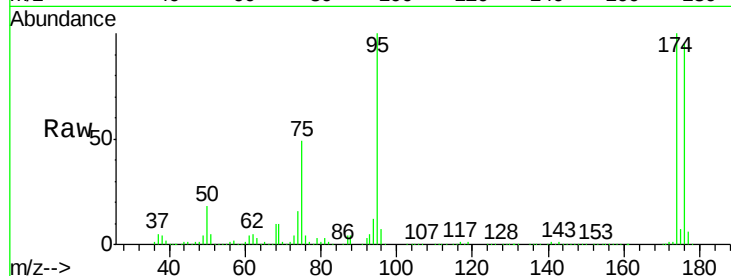
Tot Ion: 95 Resp: 176858

Ion Ratio Lower Upper

95 100

174 102.0 0.0 187.4

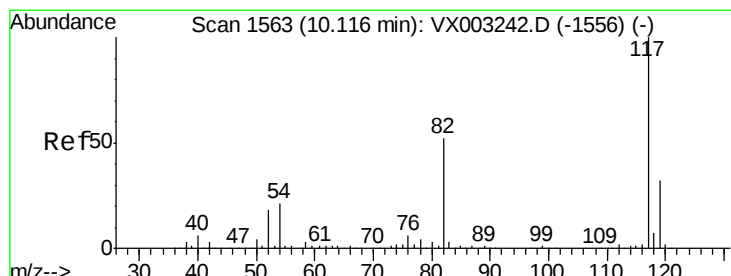
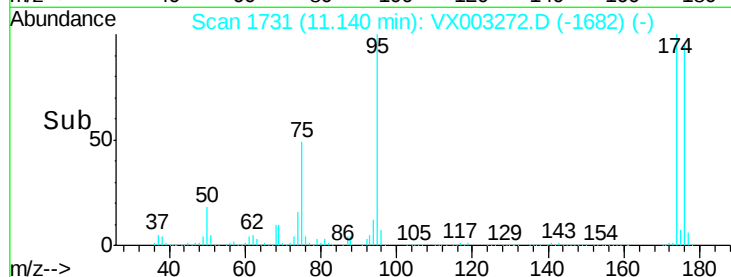
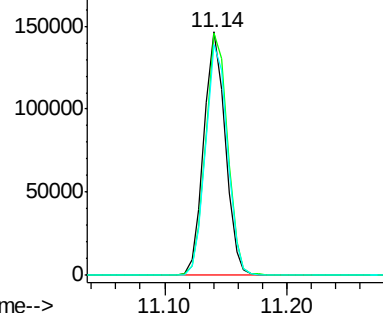
176 97.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003272.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003272.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003272.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

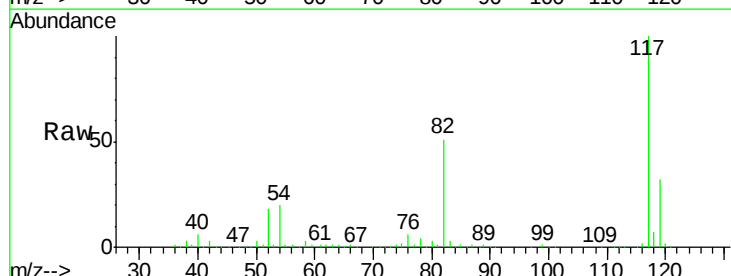
Tgt Ion: 117 Resp: 335398

Ion Ratio Lower Upper

117 100

82 51.1 45.0 67.4

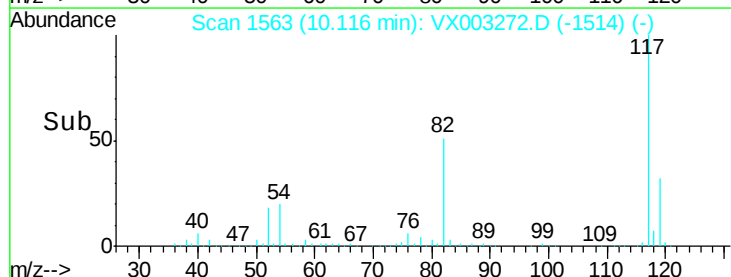
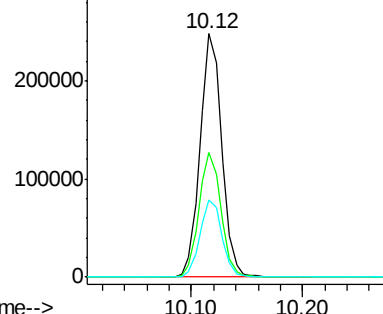
119 31.6 25.8 38.6

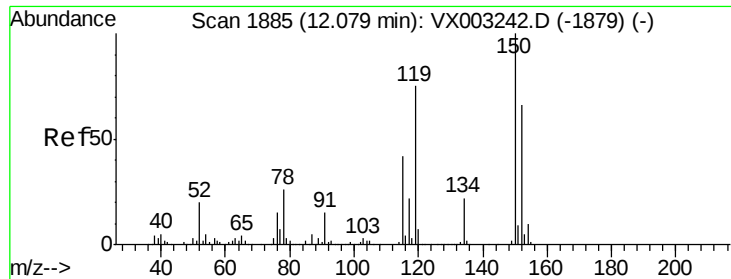


Abundance Ion 116.90 (116.60 to 117.60): VX003272.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003272.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003272.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003272.D

Acq: 10 Jul 2018 04:04

Instrument :

MSVOA_X

ClientSampled :

JC-SOIL

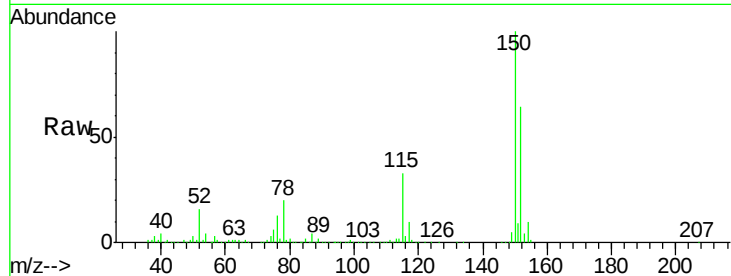
Tot Ion:152 Resp: 184847

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

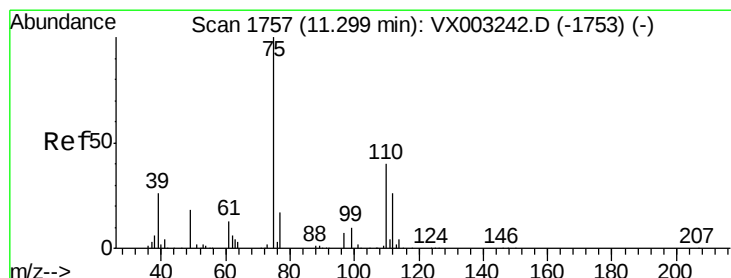
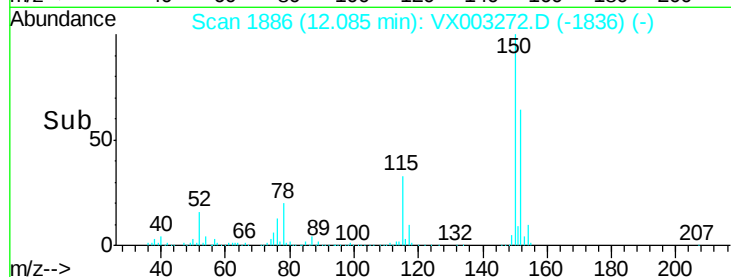
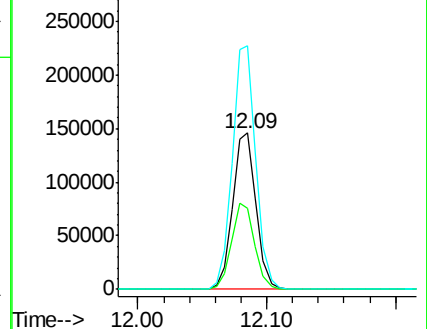
150 156.8 0.0 347.2



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: 21.91 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003272.D

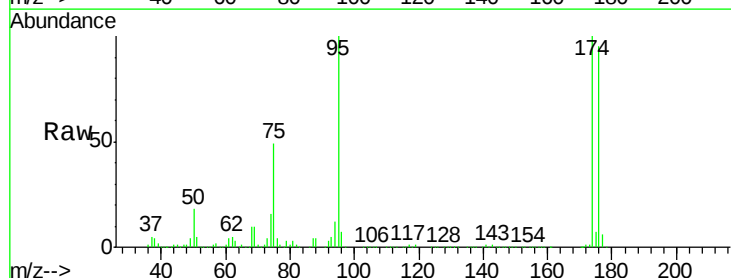
Acq: 10 Jul 2018 04:04

Tgt Ion: 75 Resp: 87518

Ion Ratio Lower Upper

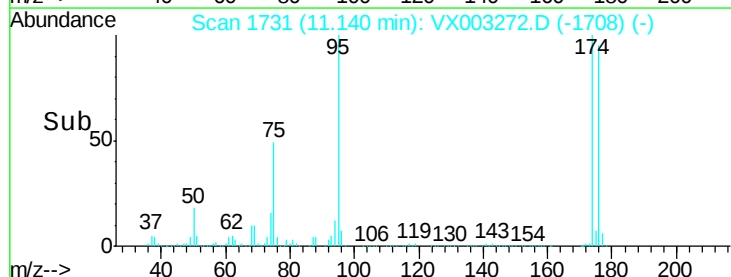
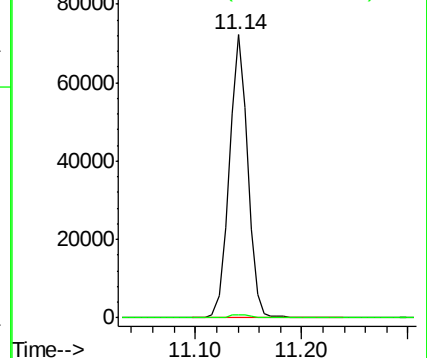
75 100

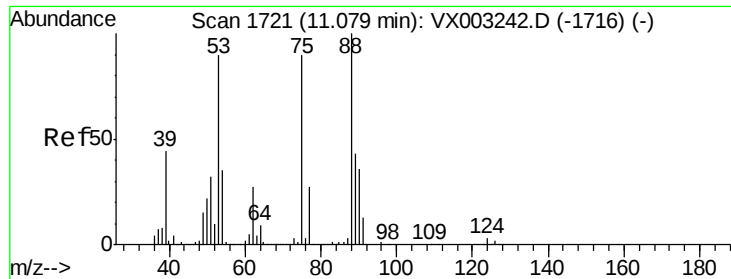
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

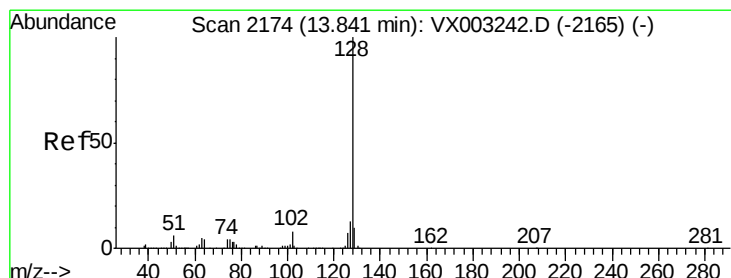
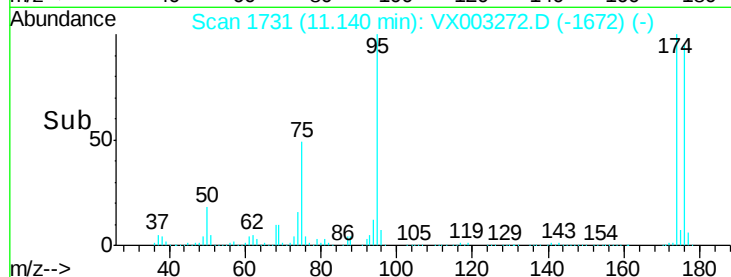
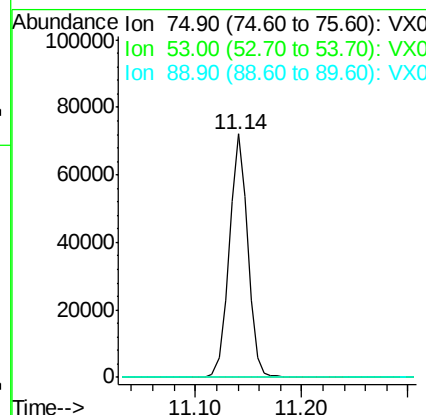
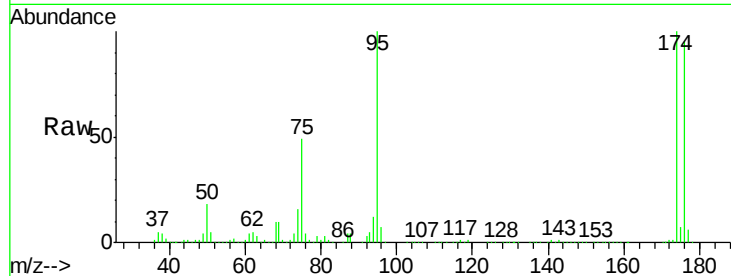




#81
trans-1,4-Dichloro-2-butene
Concen: 71.60 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX003272.D
Acq: 10 Jul 2018 04:04

Instrument :
MSVOA_X
ClientSampled :
JC-SOIL

Tot Ion: 75 Resp: 87518
Ion Ratio Lower Upper
75 100
53 0.2 86.8 130.2#
89 0.0 38.2 57.2#



#95
Naphthalene
Concen: 0.83 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.01 min
Lab File: VX003272.D
Acq: 10 Jul 2018 04:04

Tgt Ion: 128 Resp: 12322
Ion Ratio Lower Upper
128 100
127 13.3 10.4 15.6
129 11.5 8.6 13.0

