

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121218\
 Data File : VX006479.D
 Acq On : 13 Dec 2018 07:19
 Operator : JC/MD
 Sample : J6356-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-CUTTINGS

Quant Time: Dec 13 07:47:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	658968	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1032127	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	961609	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	462066	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	349748	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
35) Dibromofluoromethane	5.50	113	312188	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
50) Toluene-d8	8.71	98	1223720	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	11.13	95	453757	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	

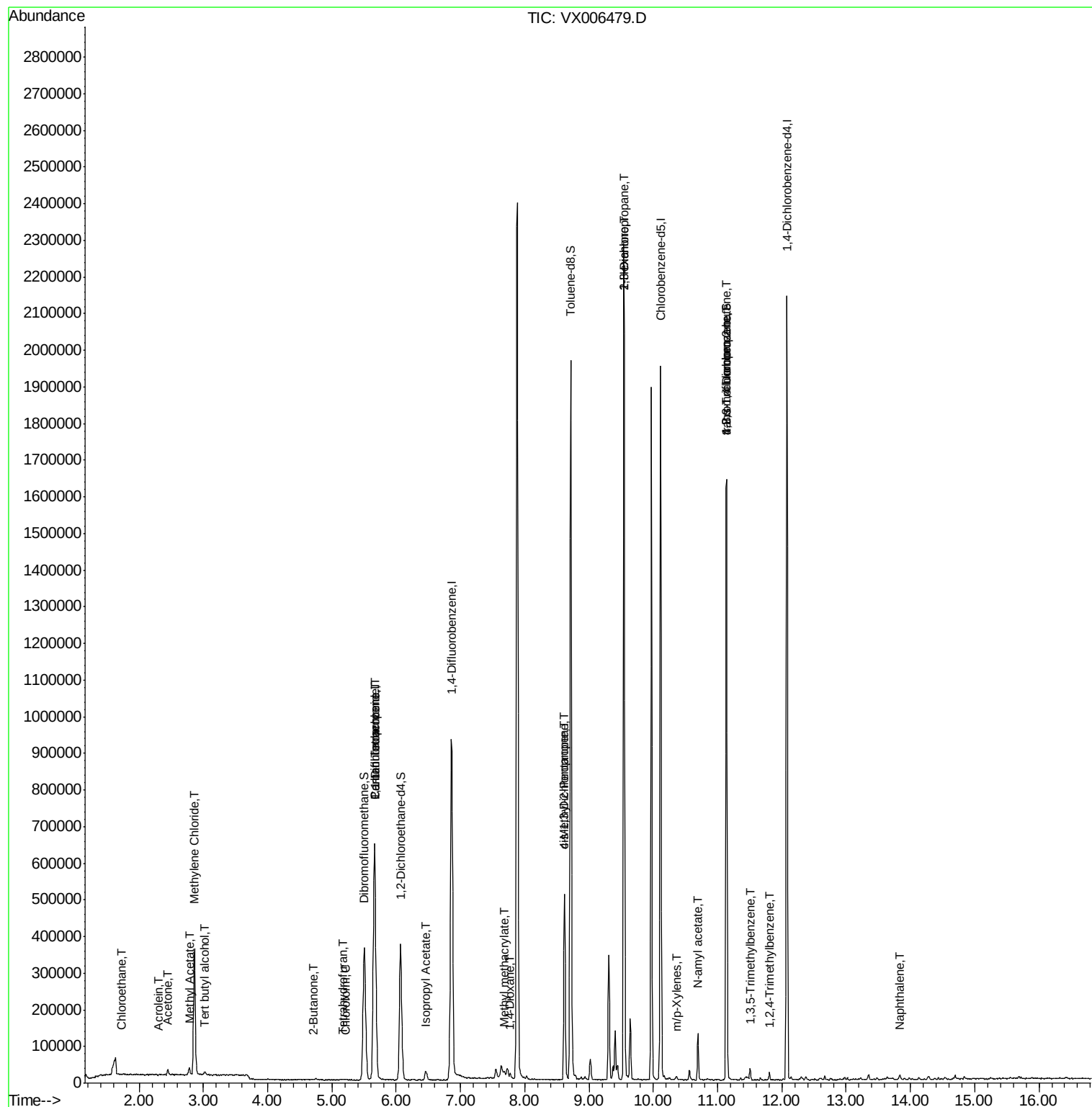
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	1103	0.252	ug/l #	42
11) Tert butyl alcohol	3.01	59	5770	3.136	ug/l #	77
13) Acrolein	2.30	56	328	0.326	ug/l #	16
16) Acetone	2.45	43	16287	5.159	ug/l #	88
18) Methyl Acetate	2.78	43	24294	2.301	ug/l	99
20) Methylene Chloride	2.86	84	162106	24.127	ug/l	96
25) 2-Butanone	4.71	43	2470	0.548	ug/l	92
29) Tetrahydrofuran	5.17	42	1380	0.441	ug/l #	55
30) Chloroform	5.20	83	2911	0.263	ug/l #	68
36) 1,1-Dichloropropene	5.67	75	43423	4.996	ug/l #	47
38) Carbon Tetrachloride	5.67	117	61539	6.019	ug/l #	16
43) Isopropyl Acetate	6.46	43	32769	2.019	ug/l	98
48) Methyl methacrylate	7.69	41	15964	2.022	ug/l #	14
49) 1,4-Dioxane	7.76	88	51	0.262	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	162005	17.148	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	90093	8.017	ug/l #	58
57) 1,3-Dichloropropane	9.54	76	21225	1.929	ug/l #	44
59) 2-Hexanone	9.54	43	248774	34.467	ug/l #	51
68) m/p-Xylenes	10.36	106	2867	0.211	ug/l	91
74) N-amyl acetate	10.69	43	27195	1.979	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	209067	23.442	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.51	105	13621	0.513	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	209067	55.011	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.80	105	9358	0.341	ug/l	99
95) Naphthalene	13.83	128	9358	0.264	ug/l #	95

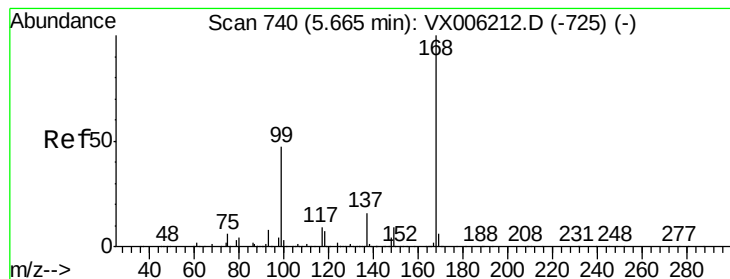
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121218\
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Quant Time: Dec 13 07:47:16 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

Instrument :

MSVOA_X

ClientSampleId :

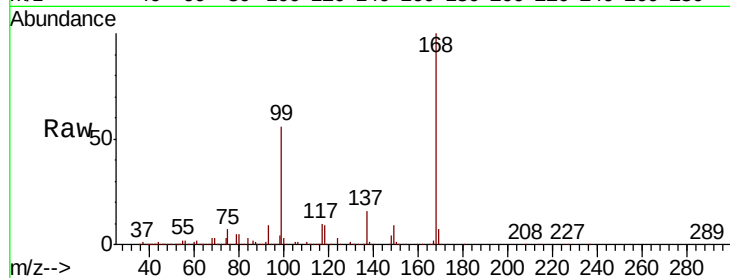
SOIL-CUTTINGS

Tot Ion:168 Resp: 658968

Ion Ratio Lower Upper

168 100

99 55.8 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

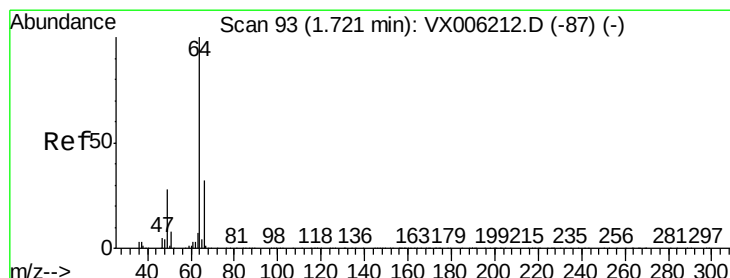
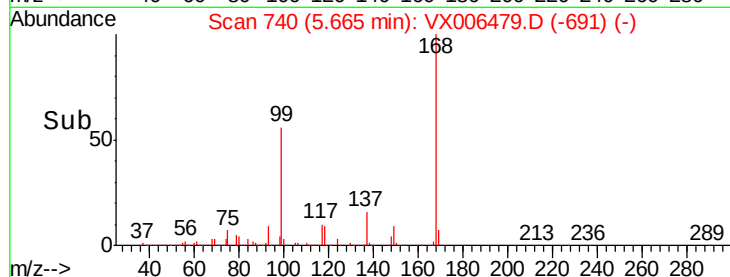
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.252 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX006479.D

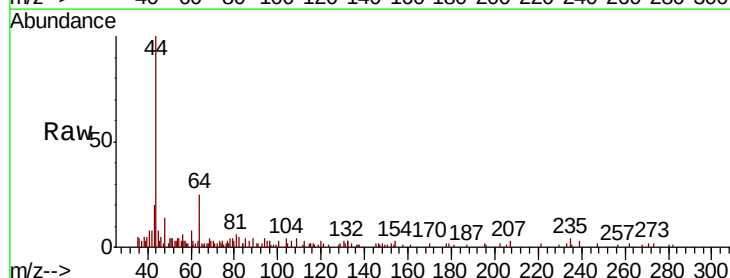
Acq: 13 Dec 2018 07:19

Tgt Ion: 64 Resp: 1103

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

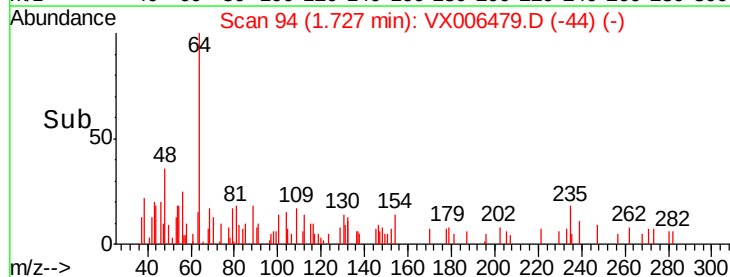
1500

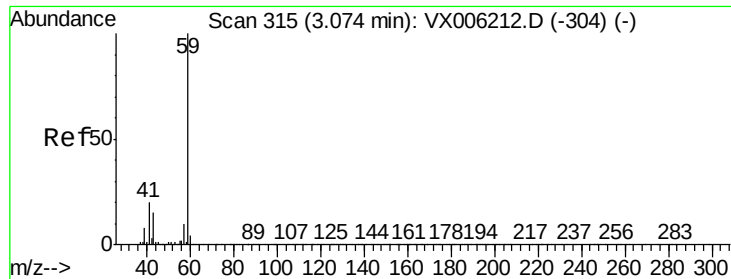
1000

500

0

Time-->



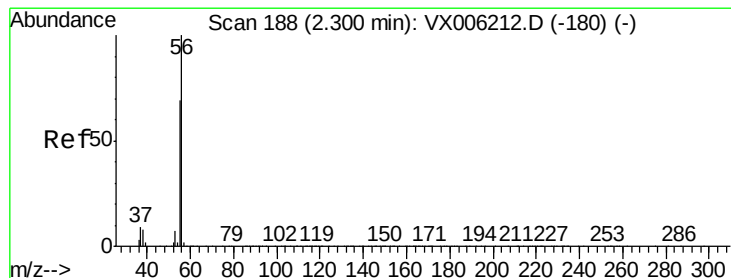
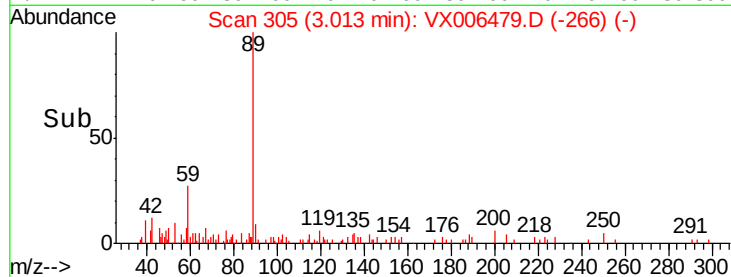
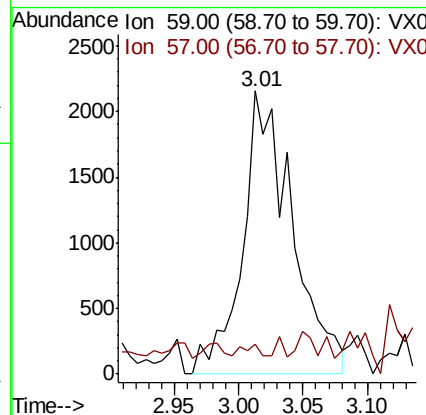
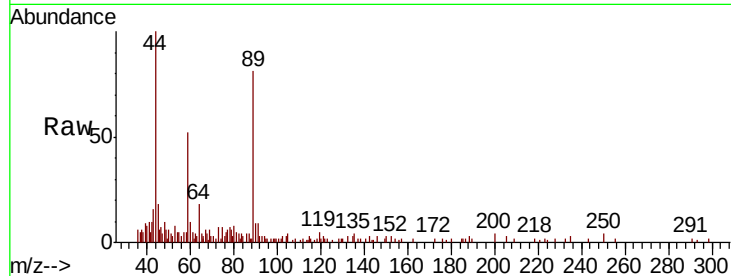


#11

Tert butyl alcohol
Concen: 3.136 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.06 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

Instrument :
MSVOA_X
ClientSampleId :
SOIL-CUTTINGS

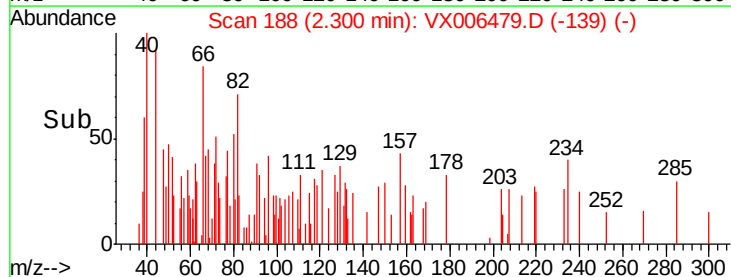
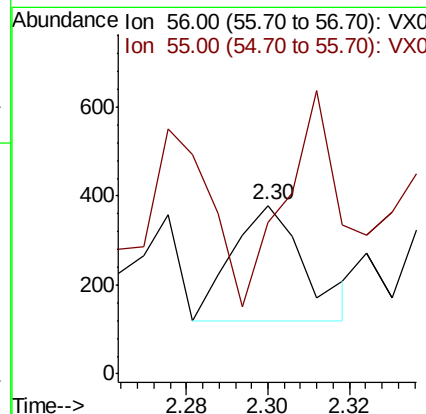
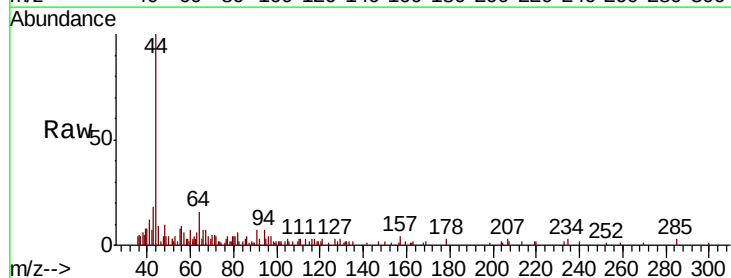
Tot Ion: 59 Resp: 5770
Ion Ratio Lower Upper
59 100
57 1.5 8.2 12.2#

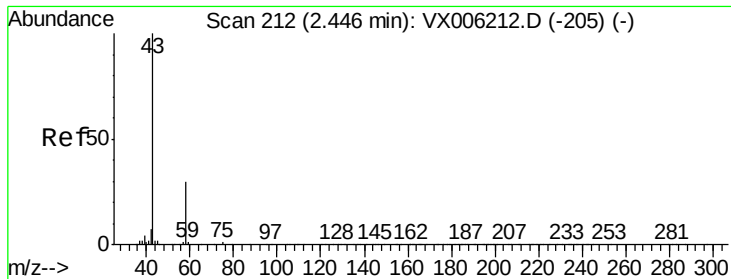


#13

Acrolein
Concen: 0.326 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.00 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

Tgt Ion: 56 Resp: 328
Ion Ratio Lower Upper
56 100
55 142.1 57.8 86.6#





#16

Acetone

Concen: 5.159 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

Instrument :

MSVOA_X

ClientSampleId :

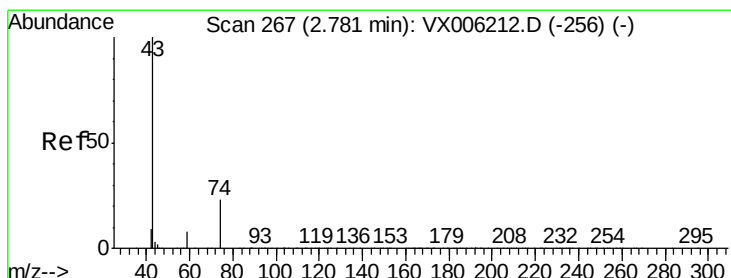
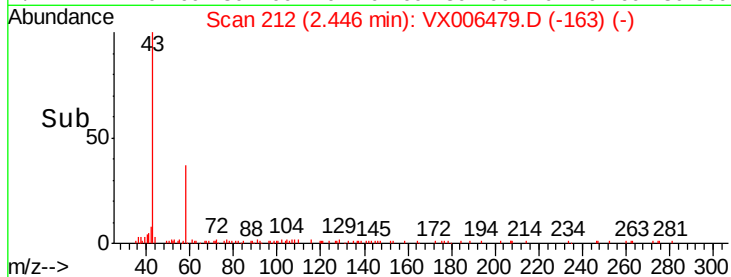
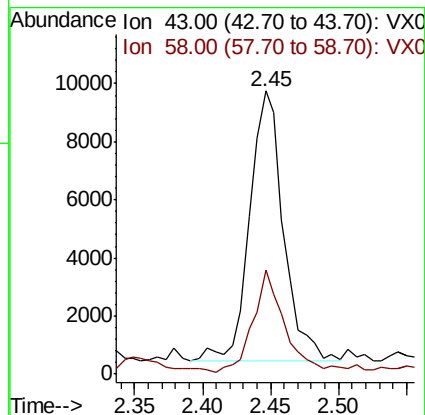
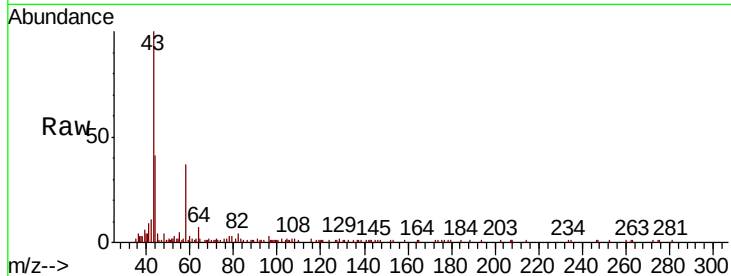
SOIL-CUTTINGS

Tot Ion: 43 Resp: 16287

Ion Ratio Lower Upper

43 100

58 36.4 24.0 36.0#



#18

Methyl Acetate

Concen: 2.301 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX006479.D

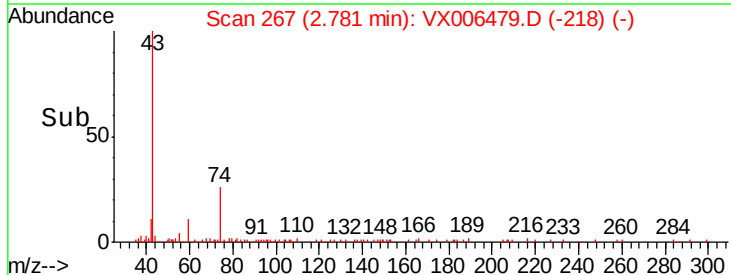
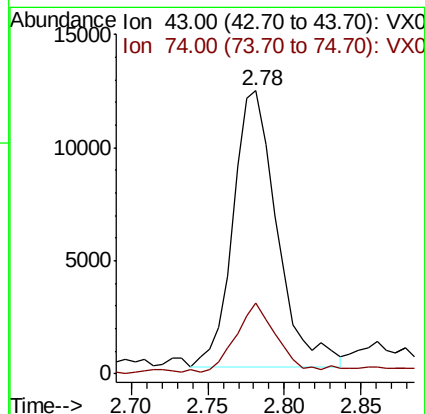
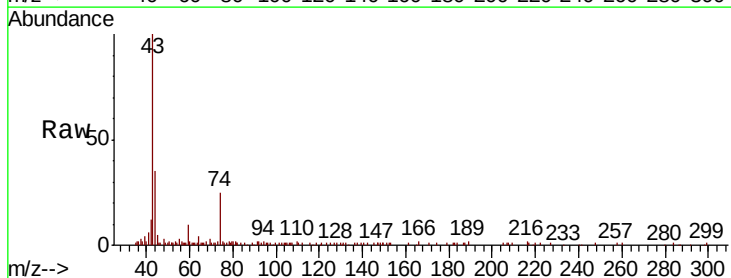
Acq: 13 Dec 2018 07:19

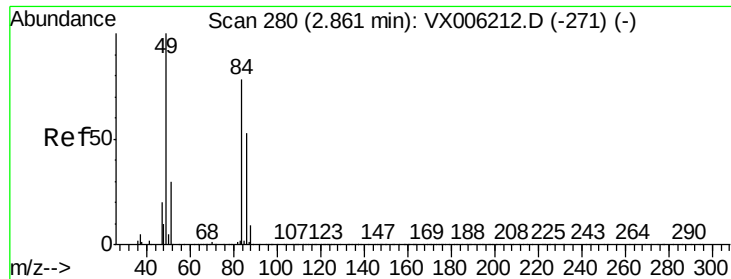
Tgt Ion: 43 Resp: 24294

Ion Ratio Lower Upper

43 100

74 22.9 17.9 26.9

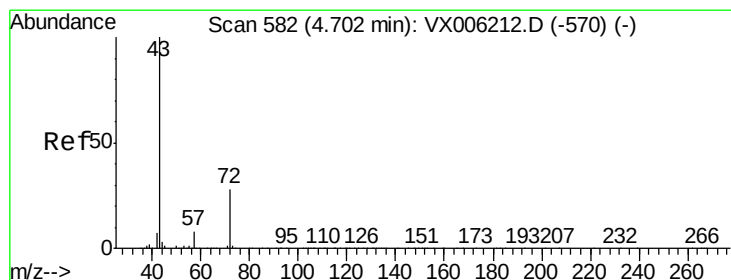
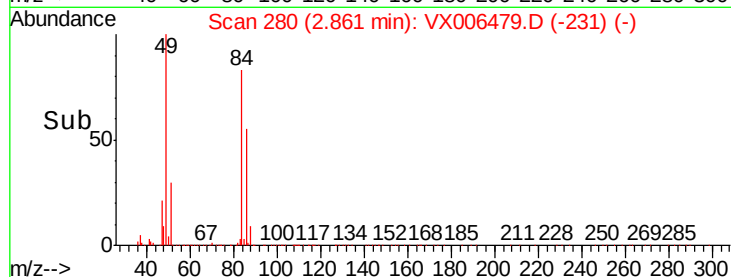
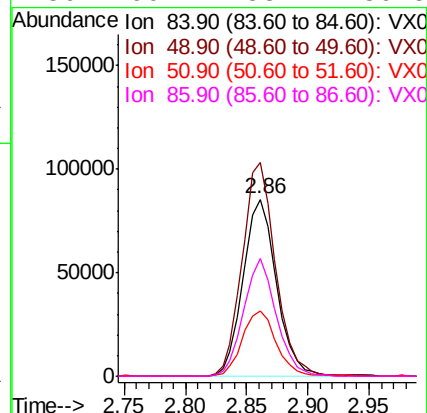
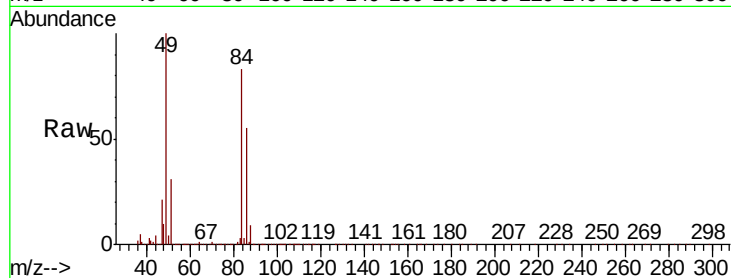




#20
Methvlene Chloride
Concen: 24.127 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

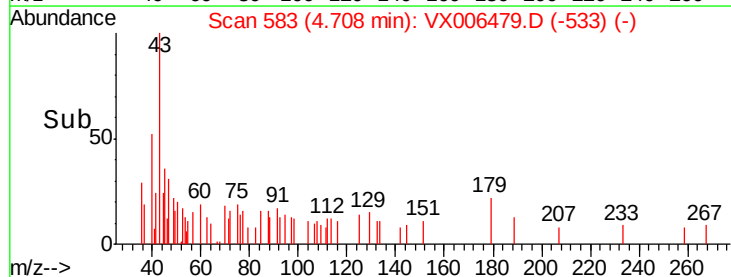
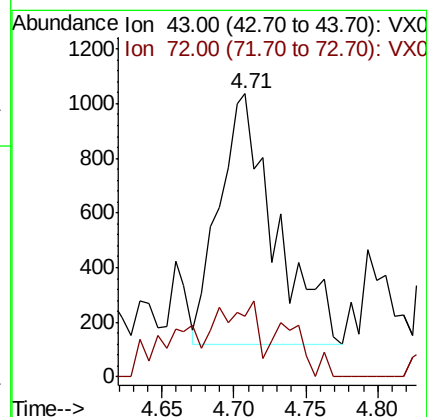
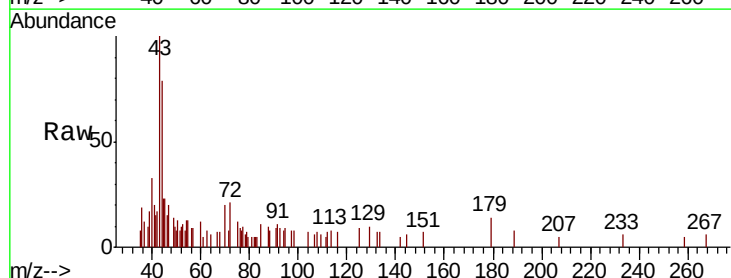
Instrument :
MSVOA_X
ClientSampleId :
SOIL-CUTTINGS

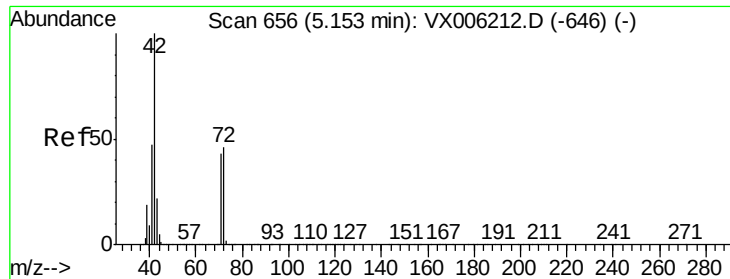
Tot Ion:	84	Resp:	162106
Ion	Ratio	Lower	Upper
84	100		
49	120.3	102.2	153.4
51	36.7	31.1	46.7
86	66.7	53.7	80.5



#25
2-Butanone
Concen: 0.548 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

Tgt Ion:	43	Resp:	2470
Ion	Ratio	Lower	Upper
43	100		
72	24.2	22.6	33.8





#29

Tetrahydrofuran

Concen: 0.441 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

Instrument :

MSVOA_X

ClientSampleId :

SOIL-CUTTINGS

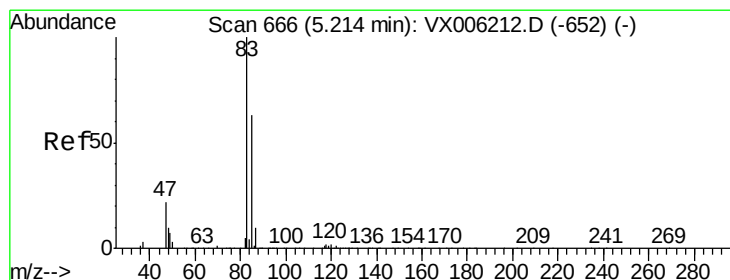
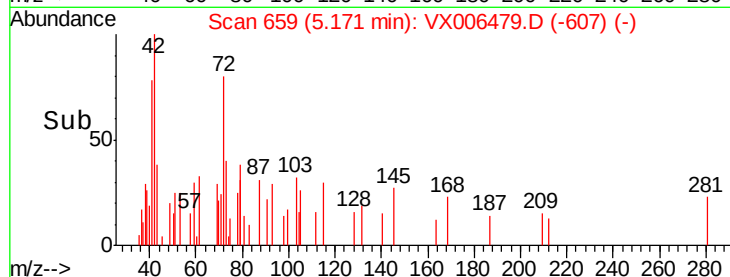
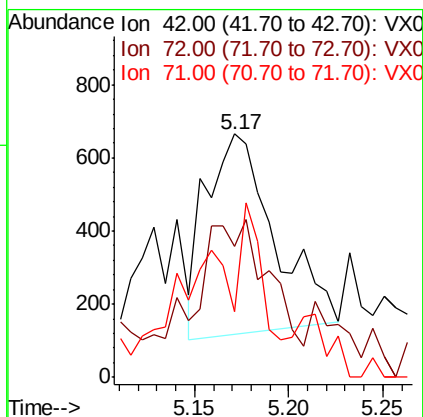
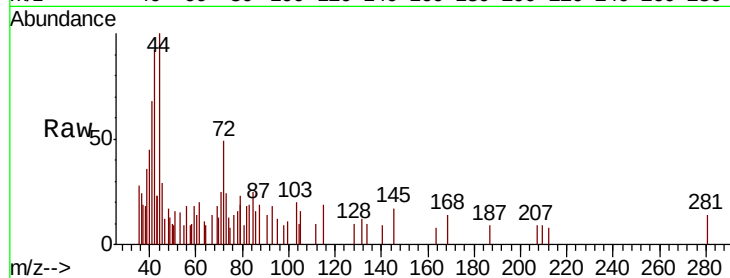
Tot Ion: 42 Resp: 1380

Ion Ratio Lower Upper

42 100

72 90.7 37.8 56.8#

71 28.7 35.2 52.8#



#30

Chloroform

Concen: 0.263 ug/l

RT: 5.20 min Scan# 664

Delta R.T. -0.01 min

Lab File: VX006479.D

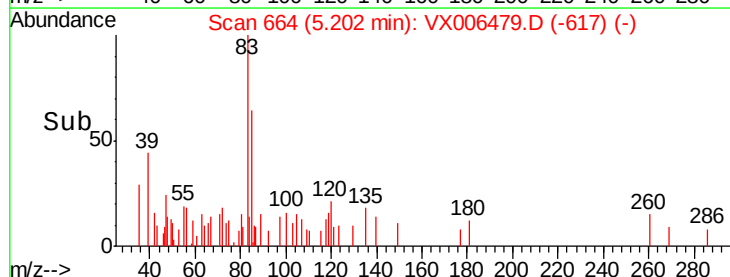
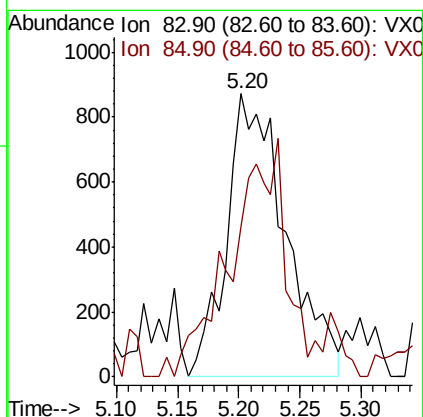
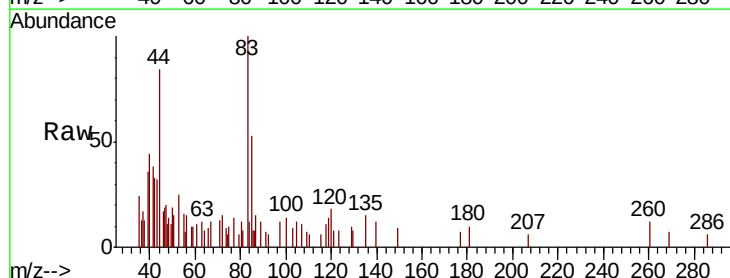
Acq: 13 Dec 2018 07:19

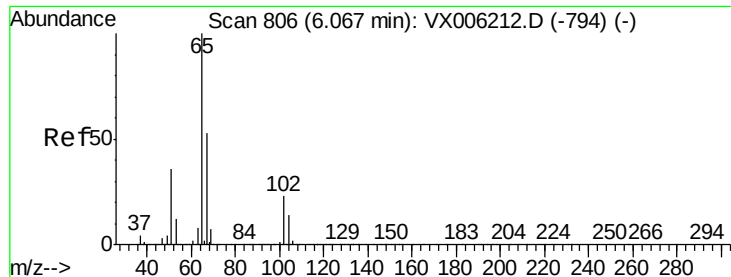
Tgt Ion: 83 Resp: 2911

Ion Ratio Lower Upper

83 100

85 38.3 50.3 75.5#

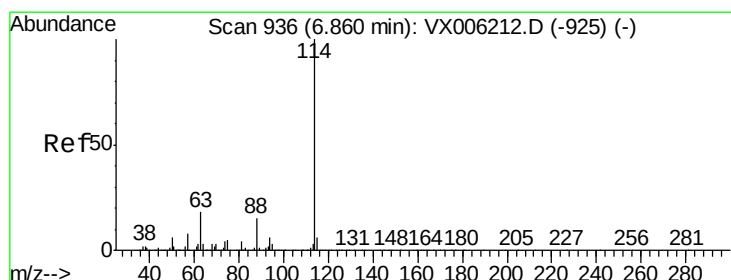
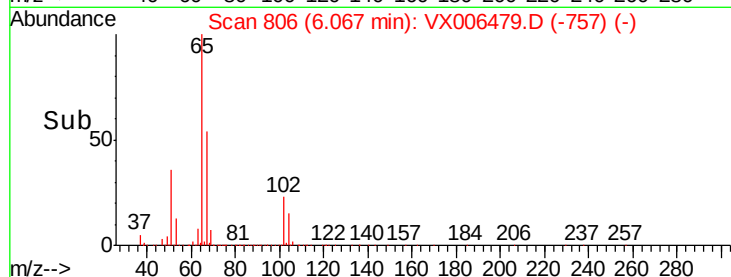
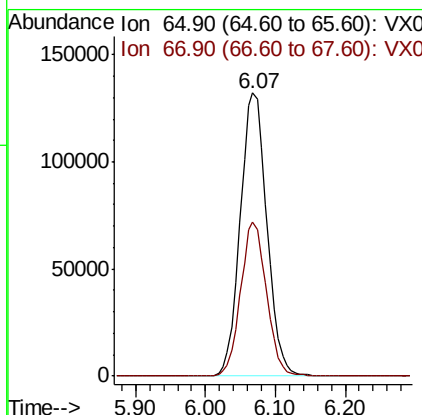
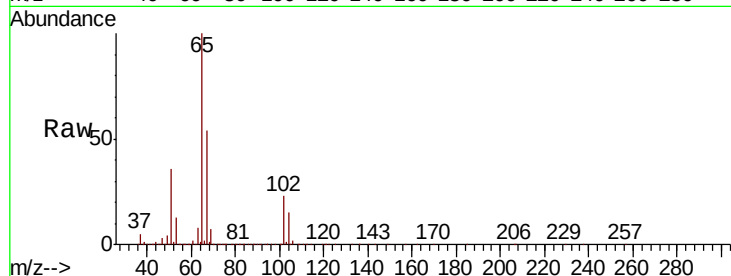




#33
 1,2-Dichloroethane-d4
 Concen: 51.992 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006479.D
 Acq: 13 Dec 2018 07:19

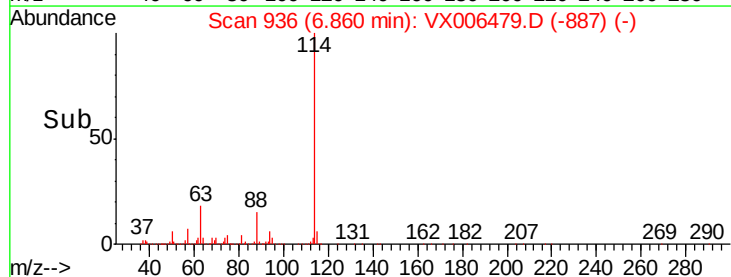
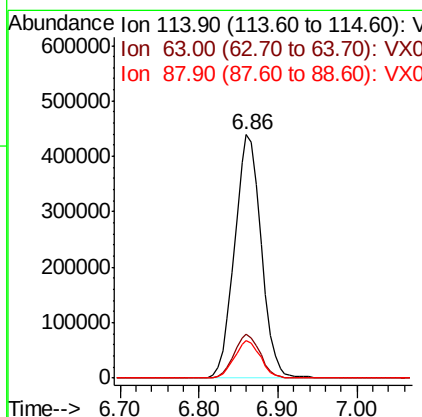
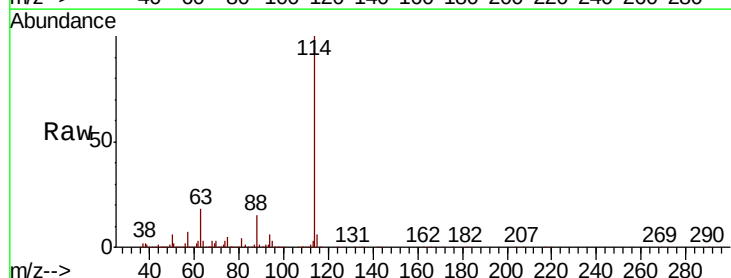
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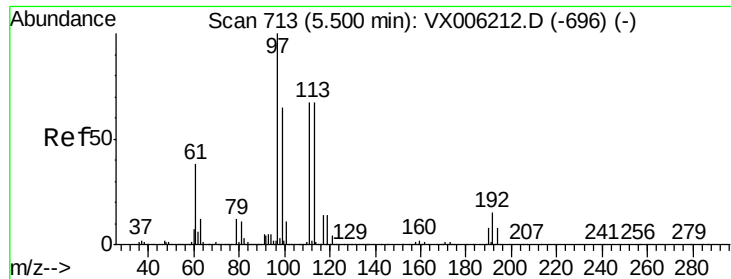
Tot Ion: 65 Resp: 349748
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006479.D
 Acq: 13 Dec 2018 07:19

Tgt Ion: 114 Resp: 1032127
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 36.6
 88 15.2 0.0 29.0

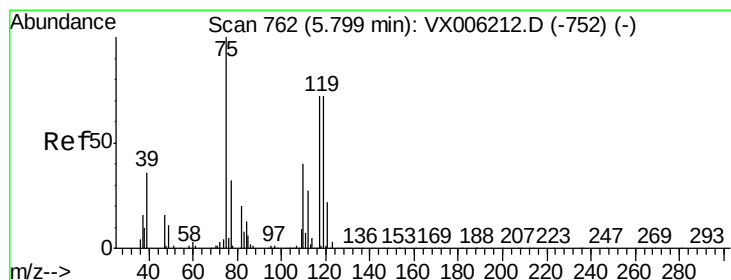
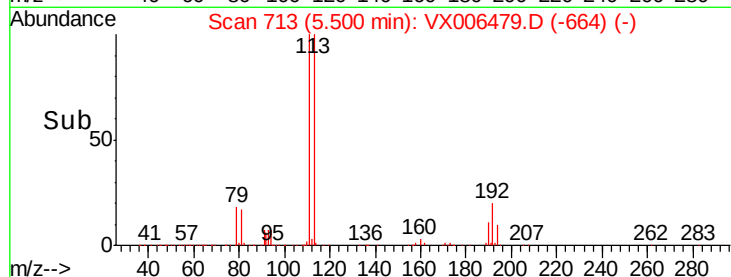
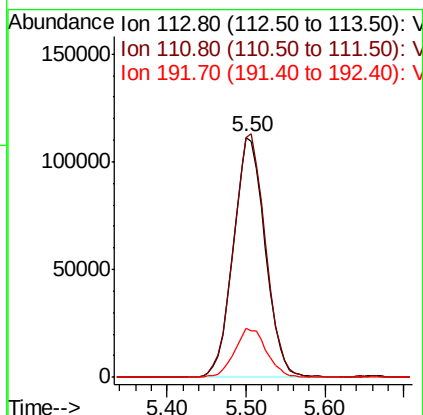
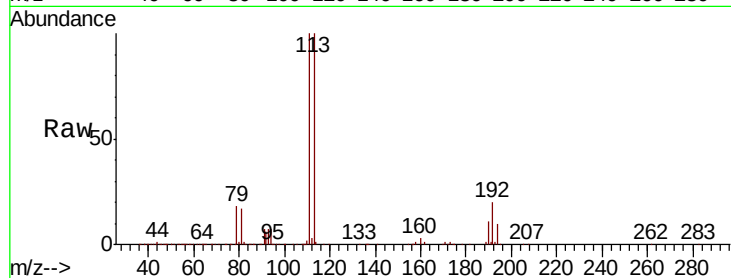




#35
 Dibromofluoromethane
 Concen: 46.716 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX006479.D
 Acq: 13 Dec 2018 07:19

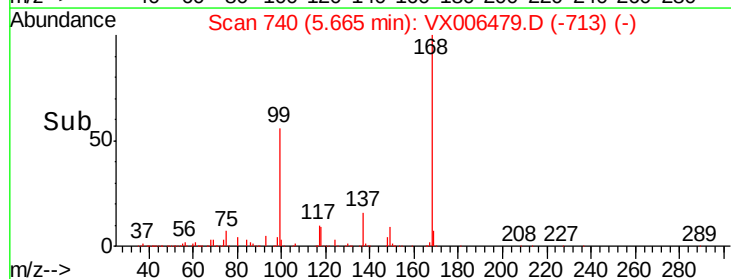
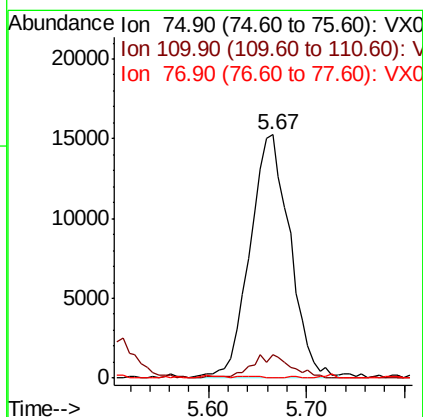
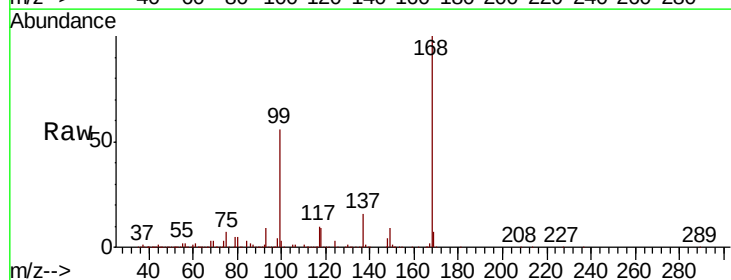
Instrument :
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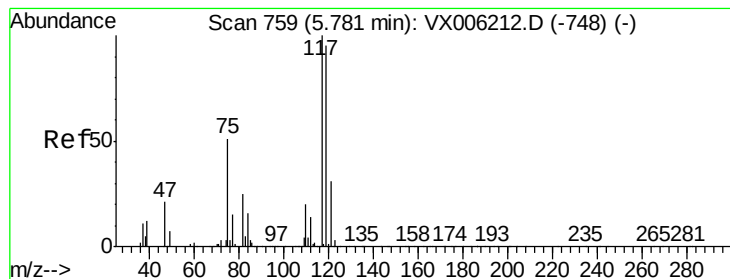
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.1	121.7
192	20.7	18.2	27.2



#36
 1,1-Dichloropropene
 Concen: 4.996 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006479.D
 Acq: 13 Dec 2018 07:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	20.4	61.3#
77	0.1	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.019 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

Instrument :

MSVOA_X

ClientSampleId :

SOIL-CUTTINGS

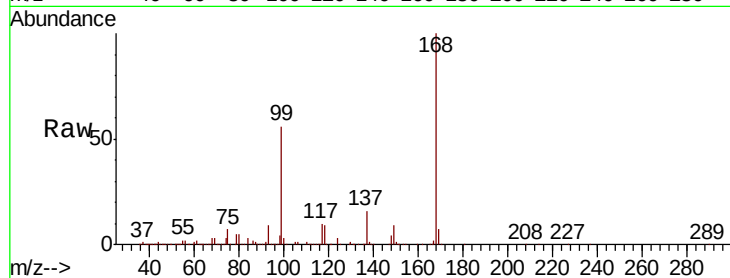
Tot Ion:117 Resp: 61539

Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.8#

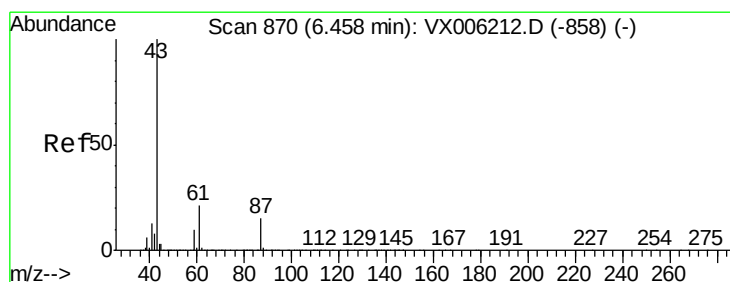
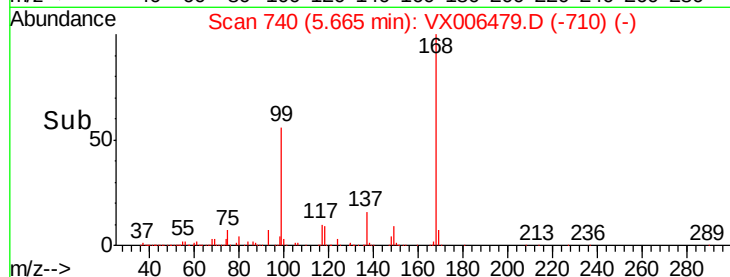
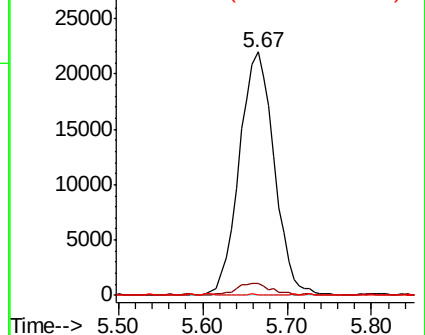
121 0.2 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 2.019 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

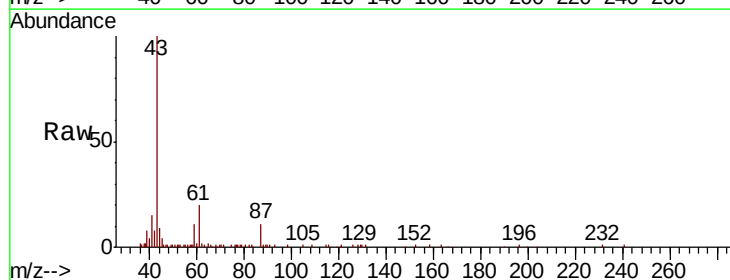
Tgt Ion: 43 Resp: 32769

Ion Ratio Lower Upper

43 100

61 21.8 16.8 25.2

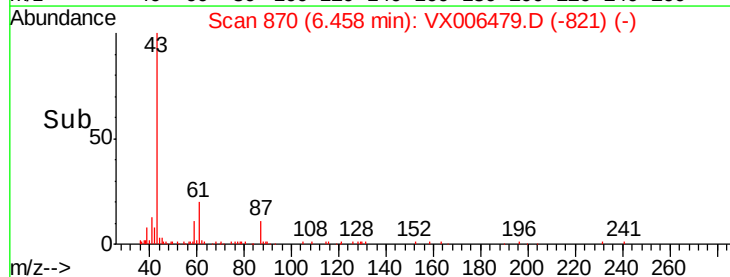
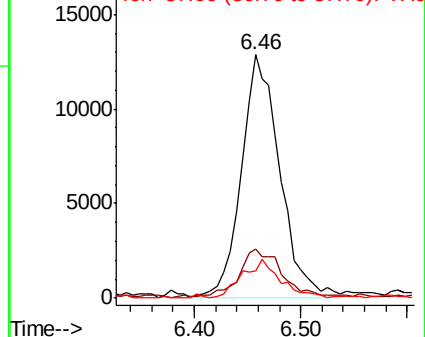
87 15.7 11.9 17.9

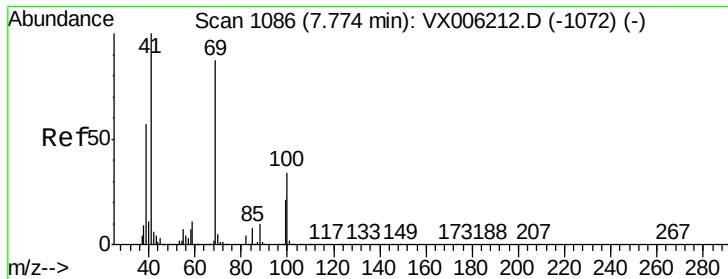


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

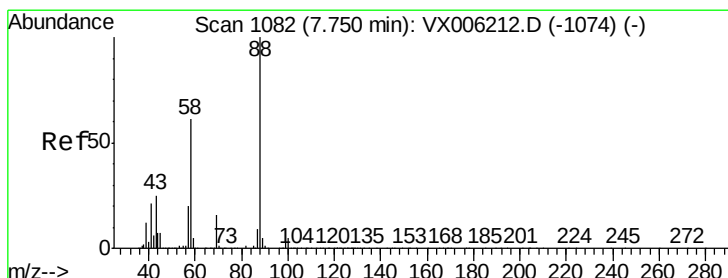
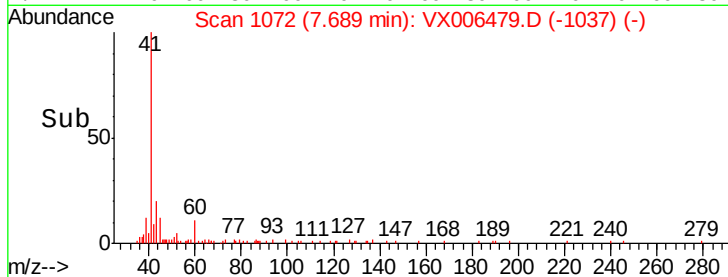
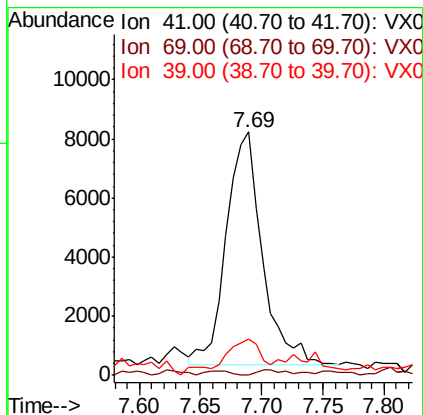
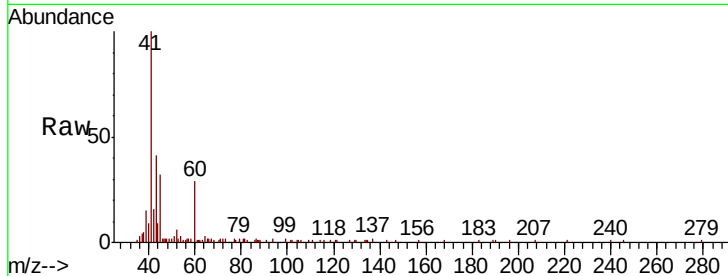




#48
Methvl methacrylate
Concen: 2.022 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

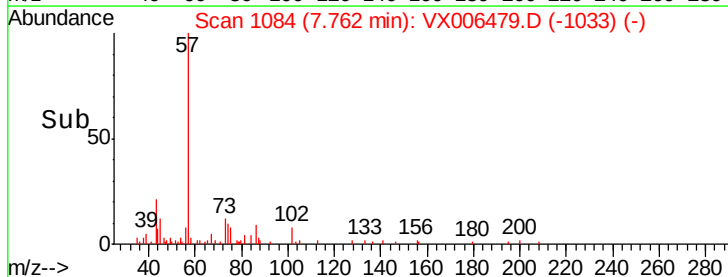
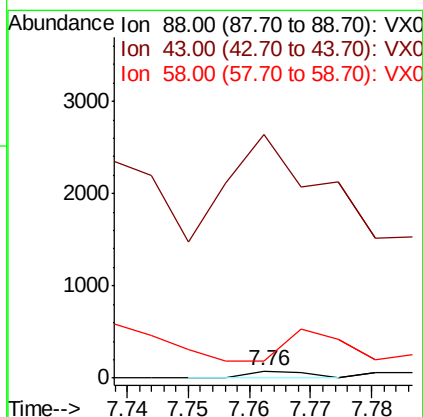
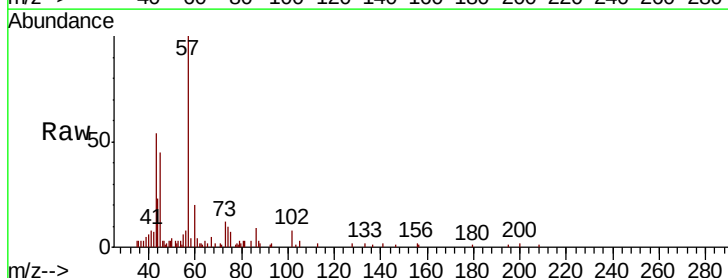
Instrument :
MSVOA_X
ClientSampleId :
SOIL-CUTTINGS

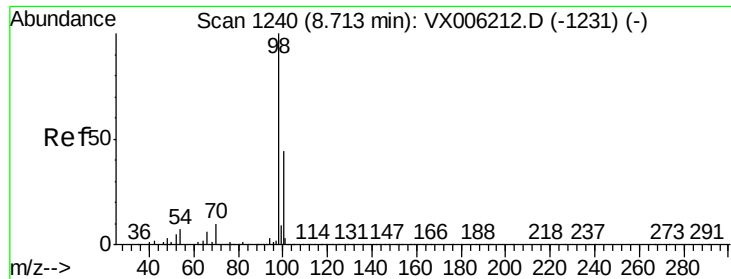
Tot Ion	Ratio	Lower	Upper
41	100		
69	2.0	70.3	105.5#
39	0.0	45.3	67.9#



#49
1,4-Dioxane
Concen: 0.262 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.2	34.8#
58	1747.1	51.4	77.0#





#50

Toluene-d8

Concen: 50.343 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

Instrument :

MSVOA_X

ClientSampleId :

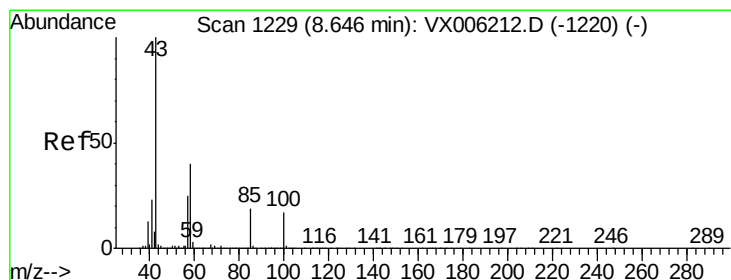
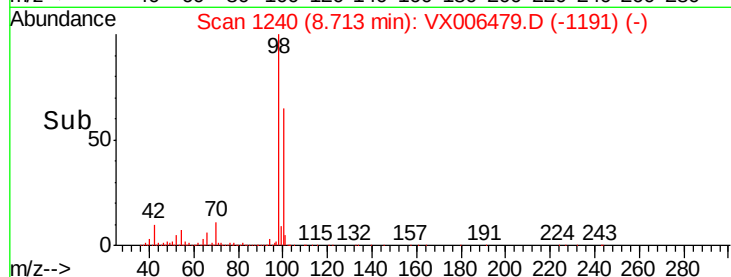
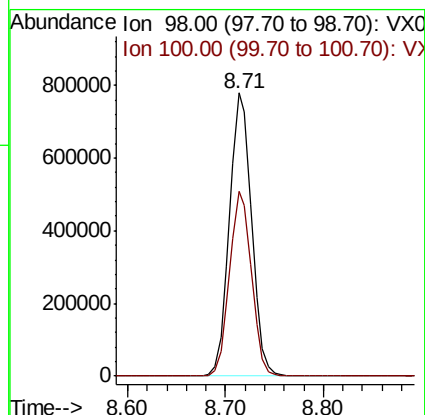
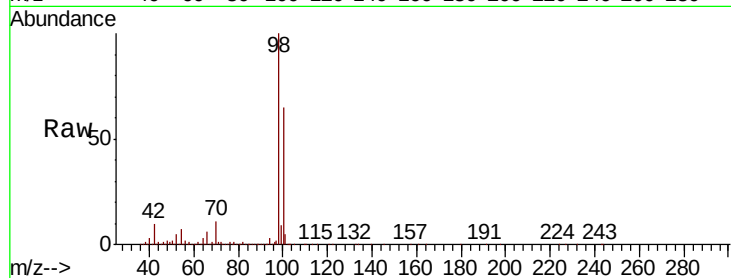
SOIL-CUTTINGS

Tot Ion: 98 Resp: 1223720

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 17.148 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006479.D

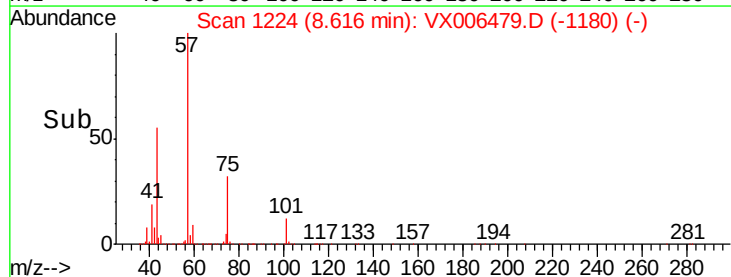
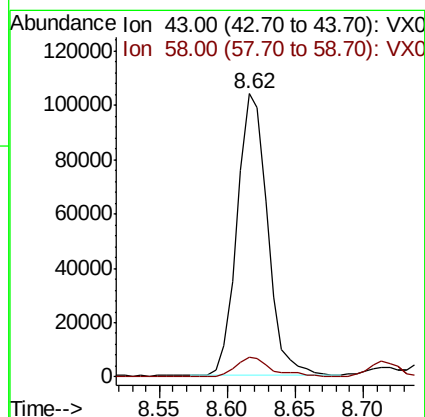
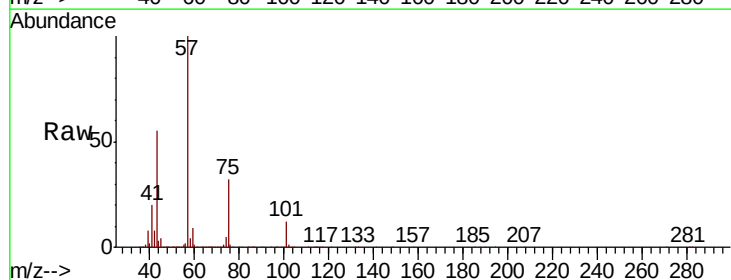
Acq: 13 Dec 2018 07:19

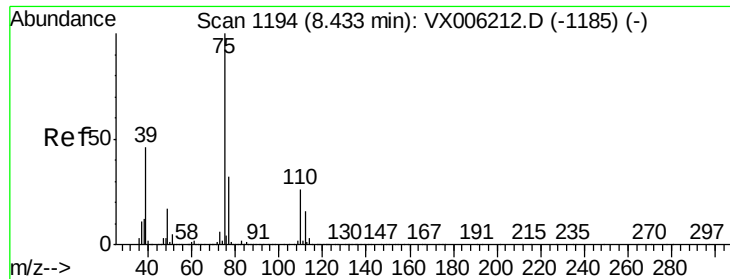
Tgt Ion: 43 Resp: 162005

Ion Ratio Lower Upper

43 100

58 8.1 31.3 46.9#





#54

cis-1,3-Dichloropropene

Concen: 8.017 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

Instrument :

MSVOA_X

ClientSampleId :

SOIL-CUTTINGS

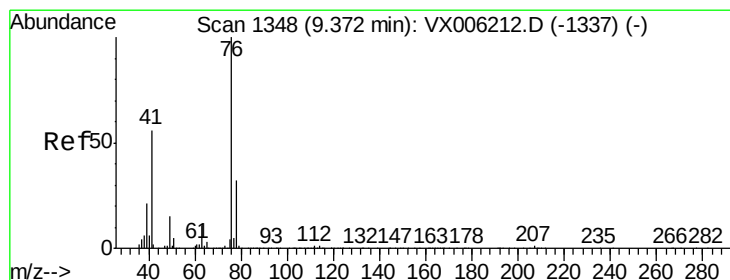
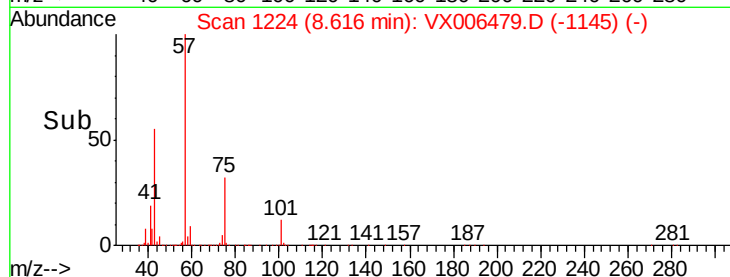
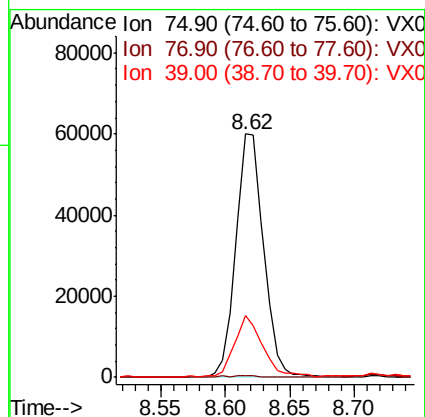
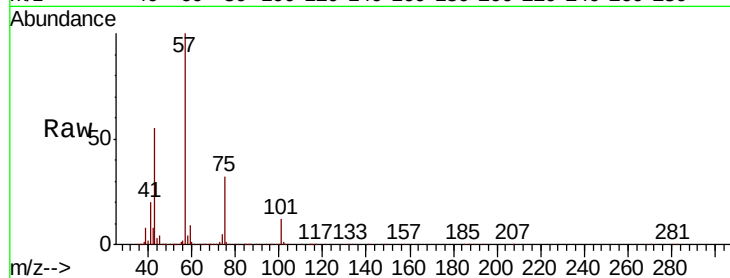
Tot Ion: 75 Resp: 90093

Ion Ratio Lower Upper

75 100

77 0.7 25.6 38.4#

39 24.9 36.5 54.7#



#57

1,3-Dichloropropane

Concen: 1.929 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006479.D

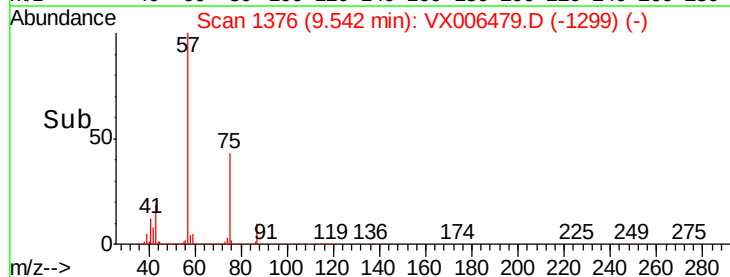
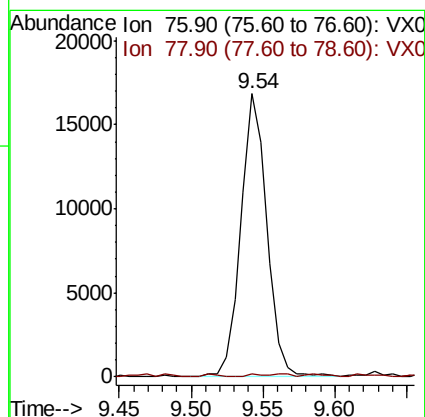
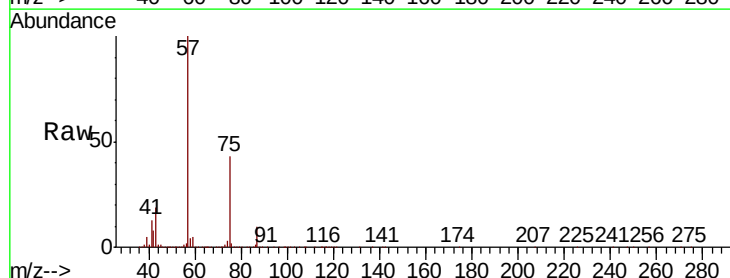
Acq: 13 Dec 2018 07:19

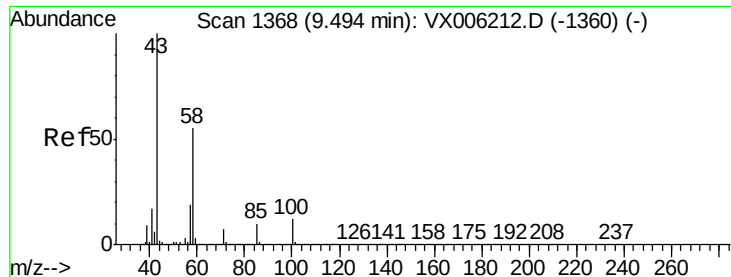
Tgt Ion: 76 Resp: 21225

Ion Ratio Lower Upper

76 100

78 1.3 26.1 39.1#





#59

2-Hexanone

Concen: 34.467 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

Instrument :

MSVOA_X

ClientSampleId :

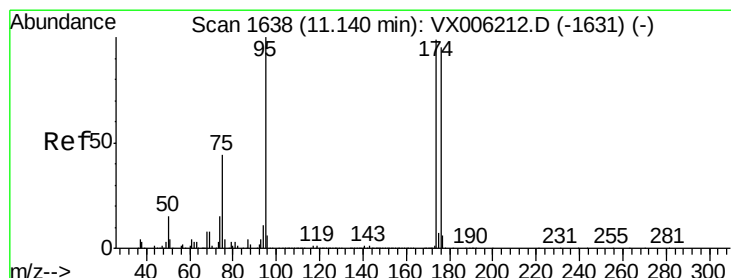
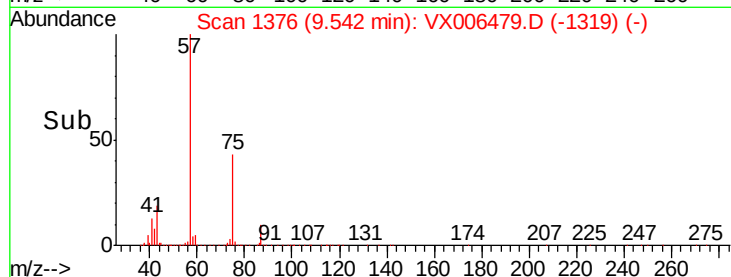
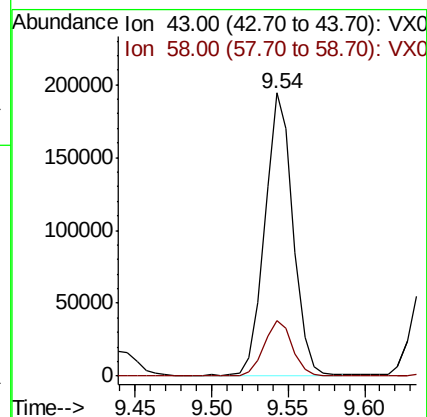
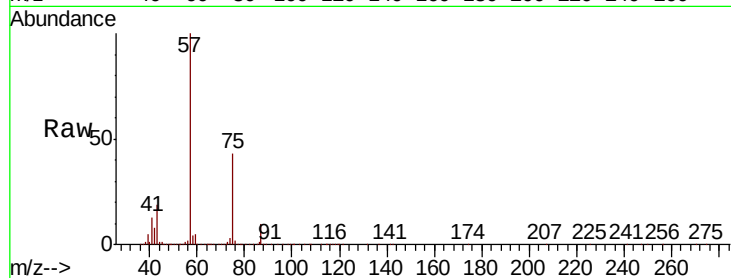
SOIL-CUTTINGS

Tot Ion: 43 Resp: 248774

Ion Ratio Lower Upper

43 100

58 19.9 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 49.538 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

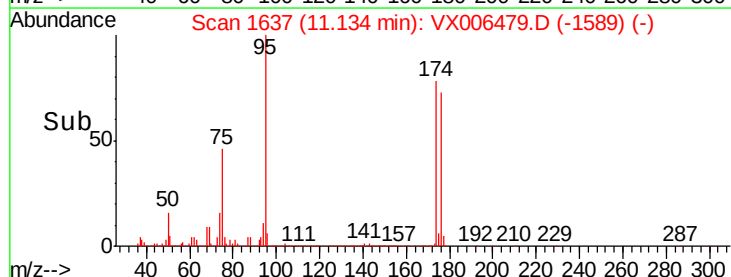
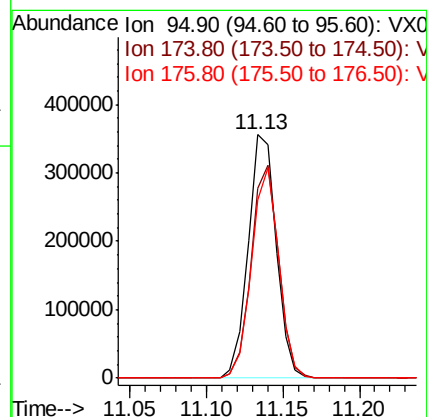
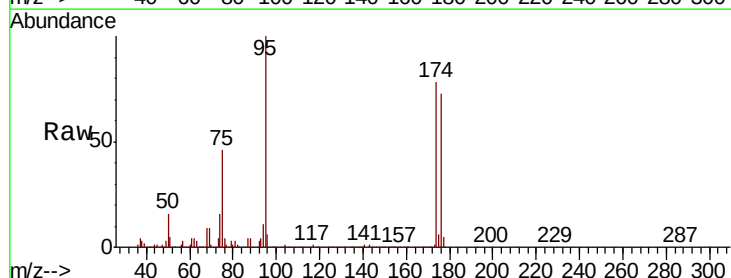
Tgt Ion: 95 Resp: 453757

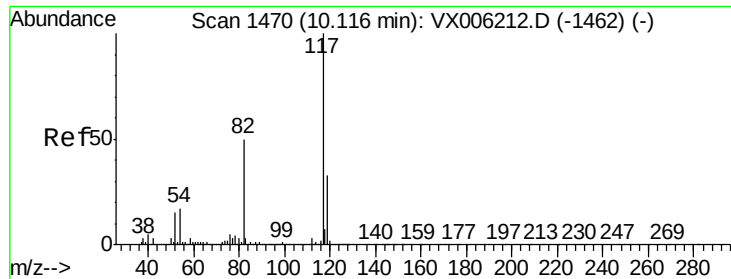
Ion Ratio Lower Upper

95 100

174 86.0 0.0 187.0

176 83.6 0.0 181.8

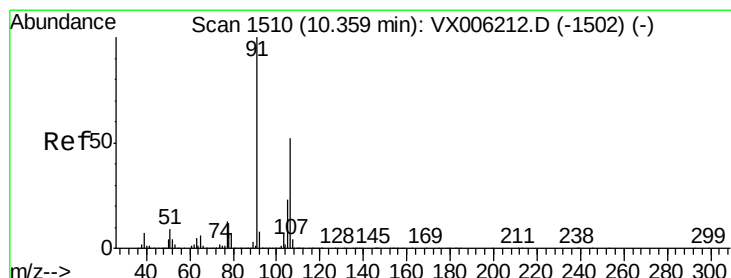
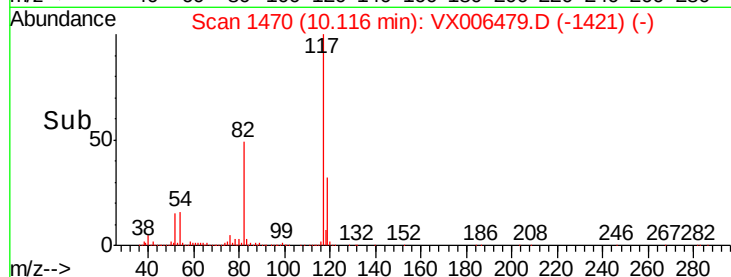
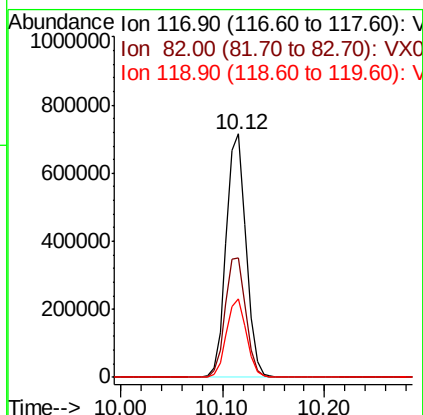
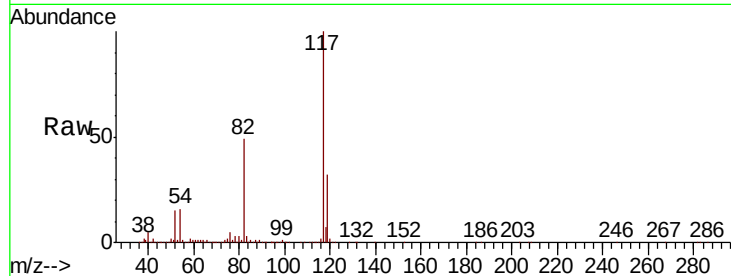




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

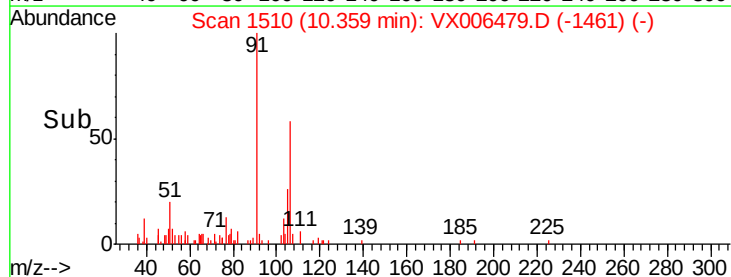
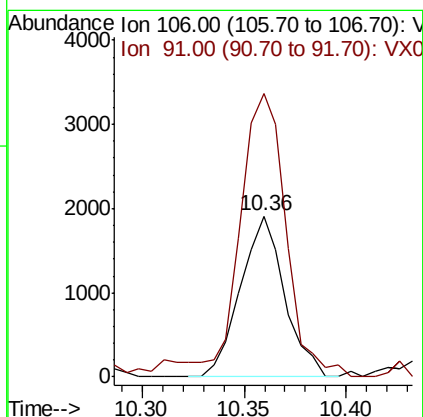
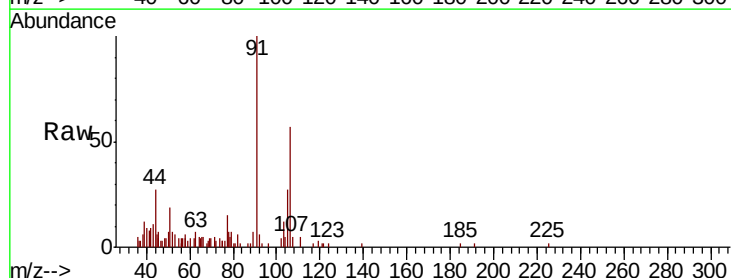
Instrument :
MSVOA_X
ClientSampleId :
SOIL-CUTTINGS

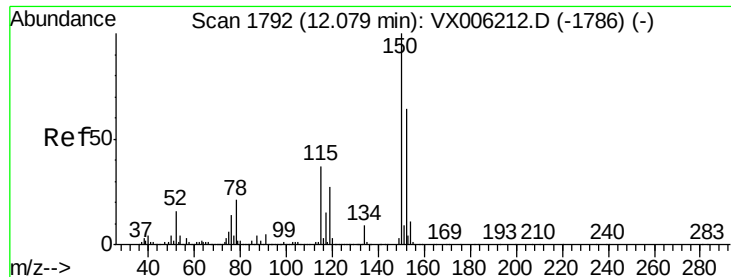
Tot Ion	Ratio	Lower	Upper
117	100		
82	49.1	39.6	59.4
119	32.2	26.3	39.5



#68
m/p-Xylenes
Concen: 0.211 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

Tgt Ion	Ratio	Lower	Upper
106	100		
91	180.4	155.2	232.8



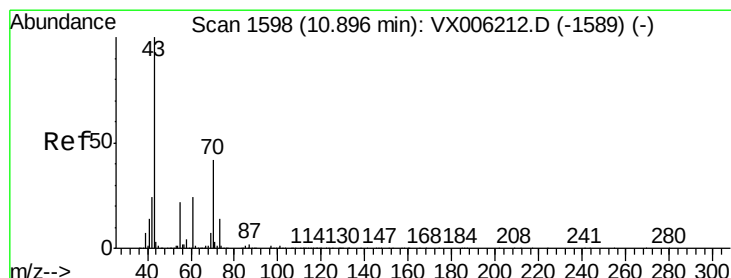
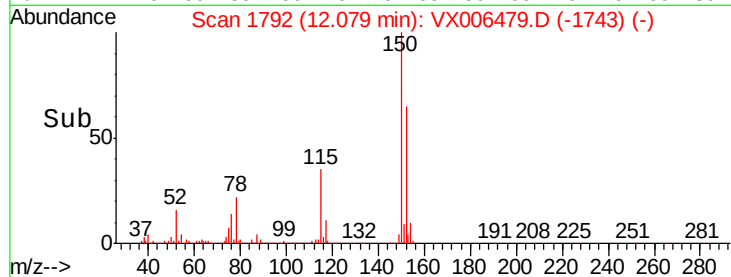
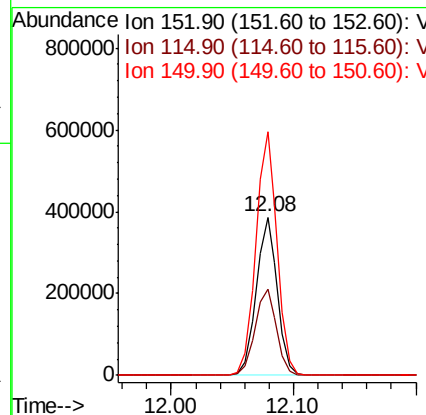
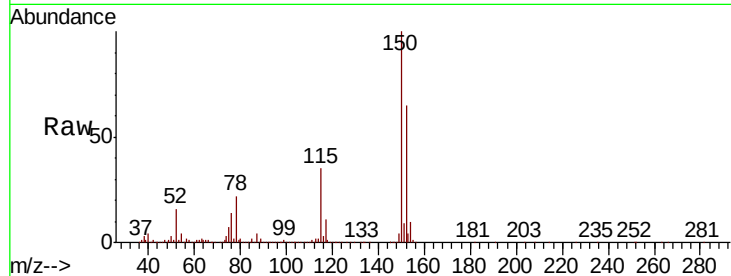


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

Instrument :
MSVOA_X
ClientSampleId :
SOIL-CUTTINGS

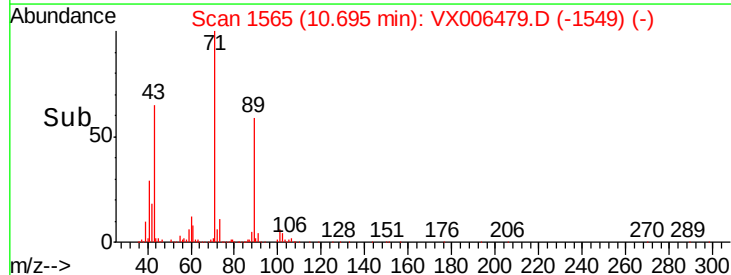
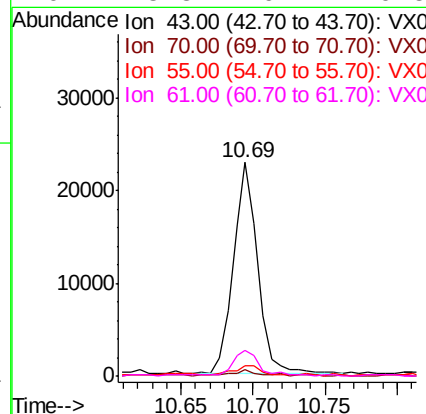
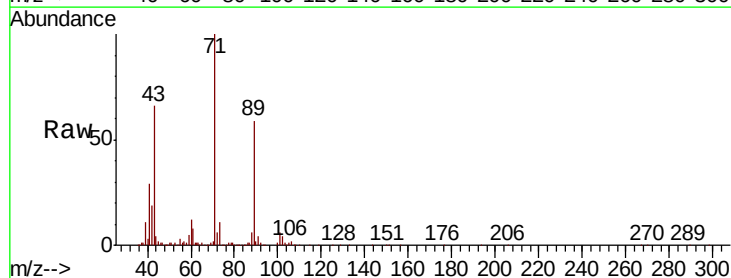
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.9	39.0	116.9
150	155.1	0.0	345.8

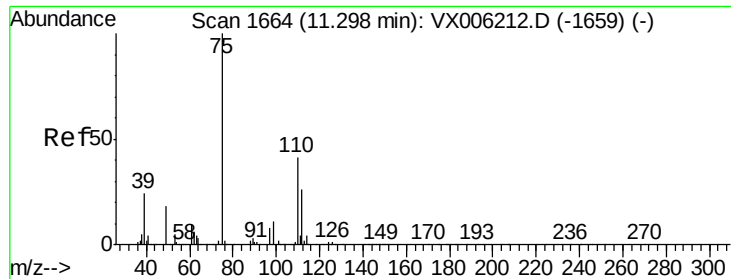


#74

N-ethyl acetate
Concen: 1.979 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.8	34.1	51.1#
55	4.1	17.8	26.8#
61	13.3	19.7	29.5#

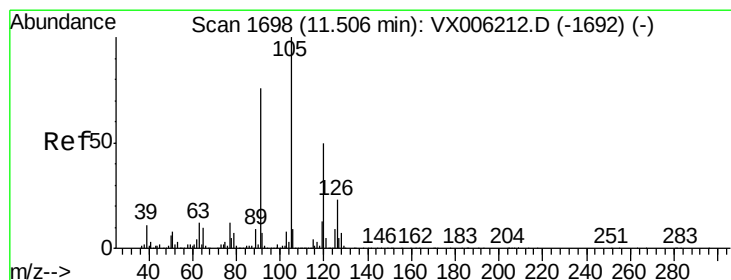
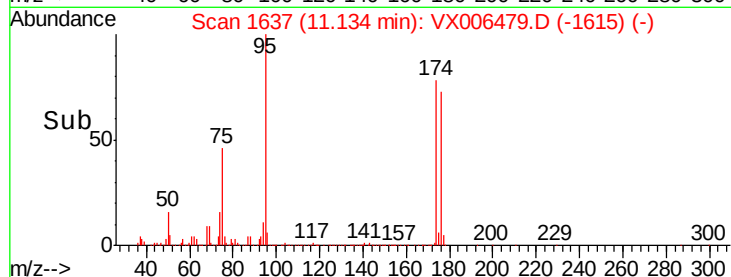
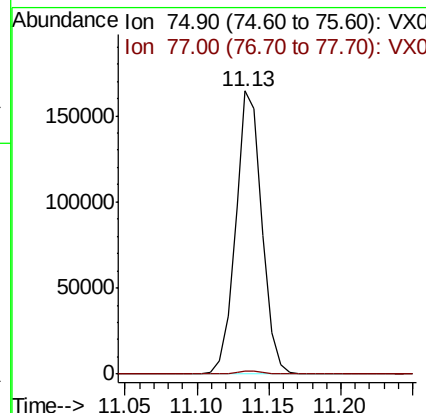
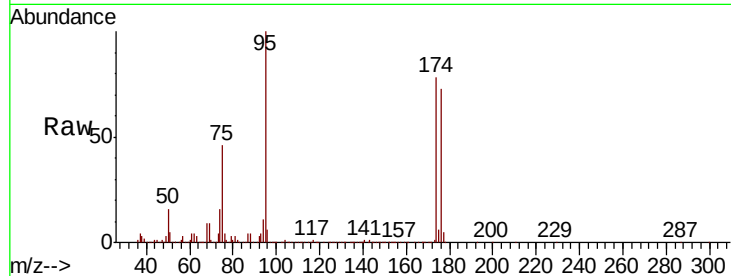




#76
 1,2,3-Trichloropropane
 Concen: 23.442 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006479.D
 Acq: 13 Dec 2018 07:19

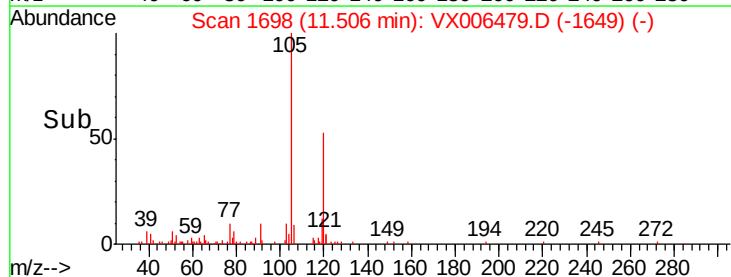
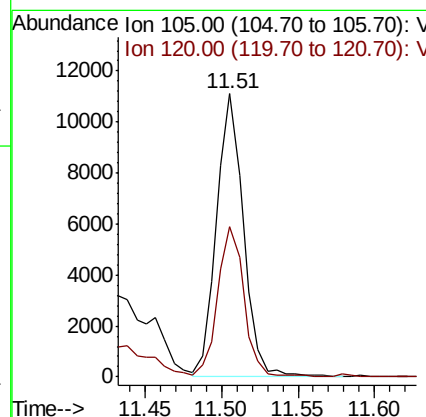
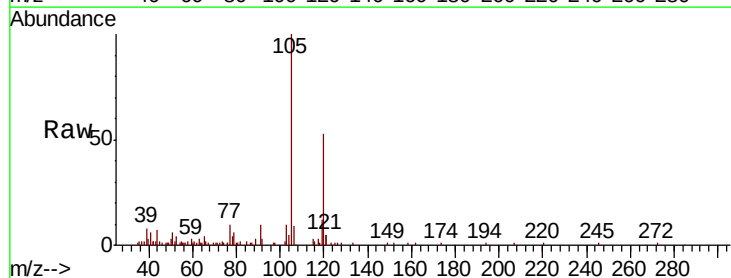
Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-CUTTINGS

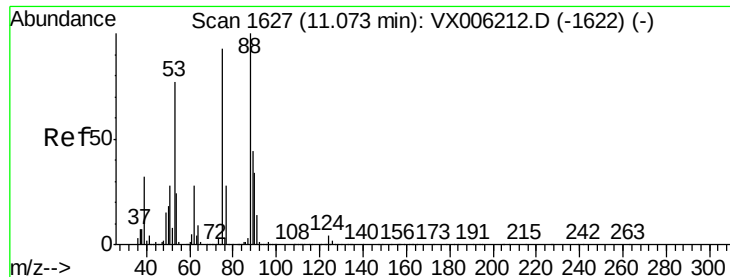
Tot Ion: 75 Resp: 209067
 Ion Ratio Lower Upper
 75 100
 77 1.3 19.9 59.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.513 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX006479.D
 Acq: 13 Dec 2018 07:19

Tgt Ion: 105 Resp: 13621
 Ion Ratio Lower Upper
 105 100
 120 51.4 25.4 76.0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.011 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006479.D

Acq: 13 Dec 2018 07:19

Instrument :

MSVOA_X

ClientSampleId :

SOIL-CUTTINGS

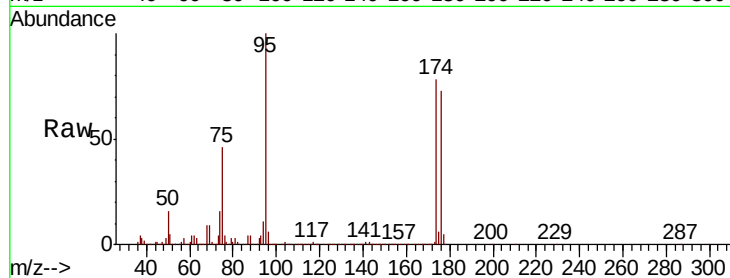
Tot Ion: 75 Resp: 209067

Ion Ratio Lower Upper

75 100

53 0.2 64.4 96.6#

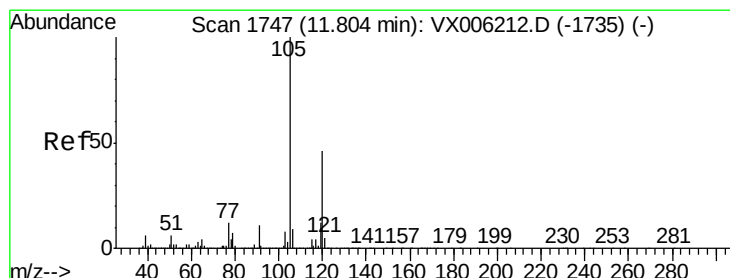
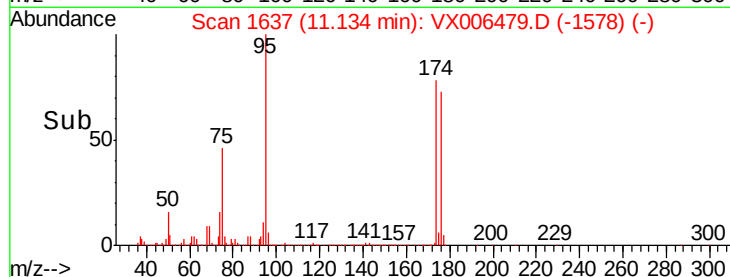
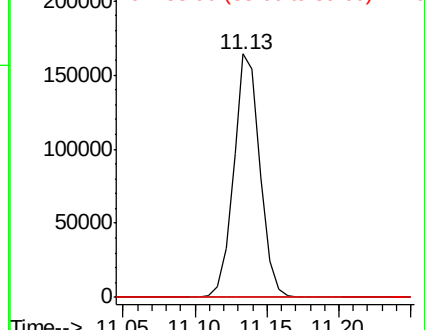
89 0.2 44.2 66.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.341 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX006479.D

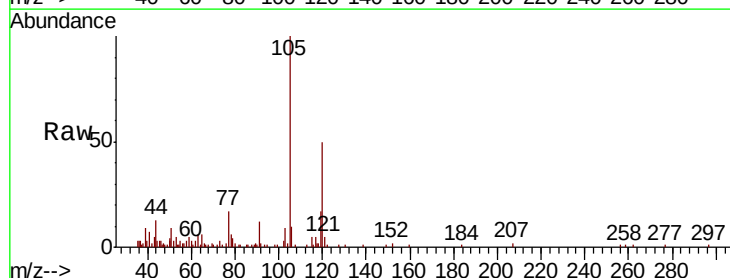
Acq: 13 Dec 2018 07:19

Tgt Ion:105 Resp: 9358

Ion Ratio Lower Upper

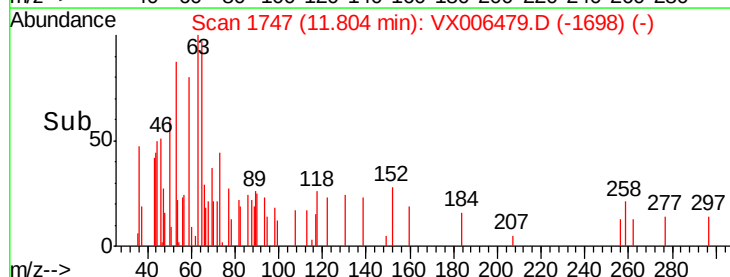
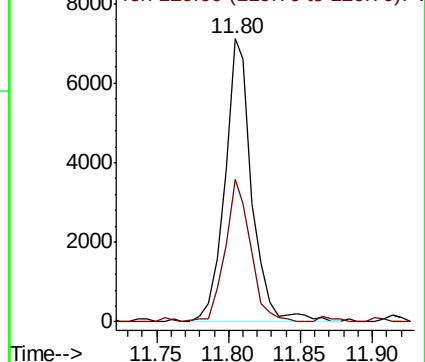
105 100

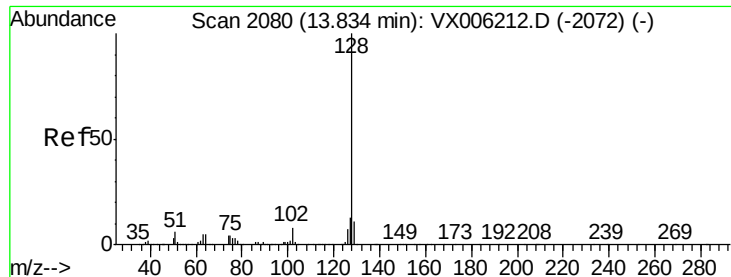
120 47.6 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 0.264 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006479.D
Acq: 13 Dec 2018 07:19

Instrument :
MSVOA_X
ClientSampleId :
SOIL-CUTTINGS

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.2	15.4
129	13.5	8.9	13.3

