

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121318\
 Data File : VU028644.D
 Acq On : 12 Dec 2018 11:57
 Operator : MD/SY
 Sample : J6356-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GROUND-WATER

Quant Time: Dec 13 00:46:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	108106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	192885	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	173403	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	70093	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	84265	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
35) Dibromofluoromethane	4.88	113	64152	52.85	ug/l	0.00
Spiked Amount			Recovery	=	105.70%	
50) Toluene-d8	7.57	98	244565	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	10.30	95	82601	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1273	0.478	ug/l	100
11) Tert butyl alcohol	2.83	59	5328	14.496	ug/l	95
16) Acetone	2.32	43	24493	22.751	ug/l	96
18) Methyl Acetate	2.62	43	2861	1.025	ug/l	95
25) 2-Butanone	4.27	43	6860	4.663	ug/l	98
30) Chloroform	4.68	83	526	0.208	ug/l	97
31) Cyclohexane	4.98	56	2572	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8654	4.100	ug/l	# 48
38) Carbon Tetrachloride	4.98	117	10648	6.259	ug/l	# 14
43) Isopropyl Acetate	5.80	43	1054	0.244	ug/l	# 62
51) 4-Methyl-2-Pentanone	7.46	43	2918	1.072	ug/l	92
52) Toluene	7.64	92	4632	1.266	ug/l	97
59) 2-Hexanone	8.38	43	1062	0.492	ug/l	# 46
65) Chlorobenzene	9.12	112	18725	5.068	ug/l	99
67) Ethyl Benzene	9.25	91	5689	0.838	ug/l	100
68) m/p-Xylenes	9.38	106	11236	4.546	ug/l	100
69) o-Xylene	9.78	106	7918	3.296	ug/l	99
70) Styrene	9.79	104	1695	0.426	ug/l	# 37
73) Isopropylbenzene	10.17	105	2370	0.441	ug/l	92
74) N-amyl acetate	9.92	43	62136	20.028	ug/l	# 49
76) 1,2,3-Trichloropropane	10.30	75	42091	23.517	ug/l	# 36
78) n-propylbenzene	10.59	91	6797	1.017	ug/l	100
79) 2-Chlorotoluene	10.68	91	4551	1.182	ug/l	# 43
80) 1,3,5-Trimethylbenzene	10.77	105	16562	3.720	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.30	75	42091	57.738	ug/l	# 100
82) 4-Chlorotoluene	10.77	91	1846	0.405	ug/l	# 47
83) tert-Butylbenzene	11.14	119	9261	2.158	ug/l	# 8
84) 1,2,4-Trimethylbenzene	11.15	105	55593	12.116	ug/l	100
85) sec-Butylbenzene	11.15	105	55593	10.084	ug/l	# 59
87) 1,3-Dichlorobenzene	11.42	146	750	0.316	ug/l	94
88) 1,4-Dichlorobenzene	11.51	146	5085	2.069	ug/l	90
89) n-Butylbenzene	11.87	91	2090	0.441	ug/l	# 17
90) Hexachloroethane	12.14	117	438	0.619	ug/l	# 11
91) 1,2-Dichlorobenzene	11.88	146	966	0.407	ug/l	96

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Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration

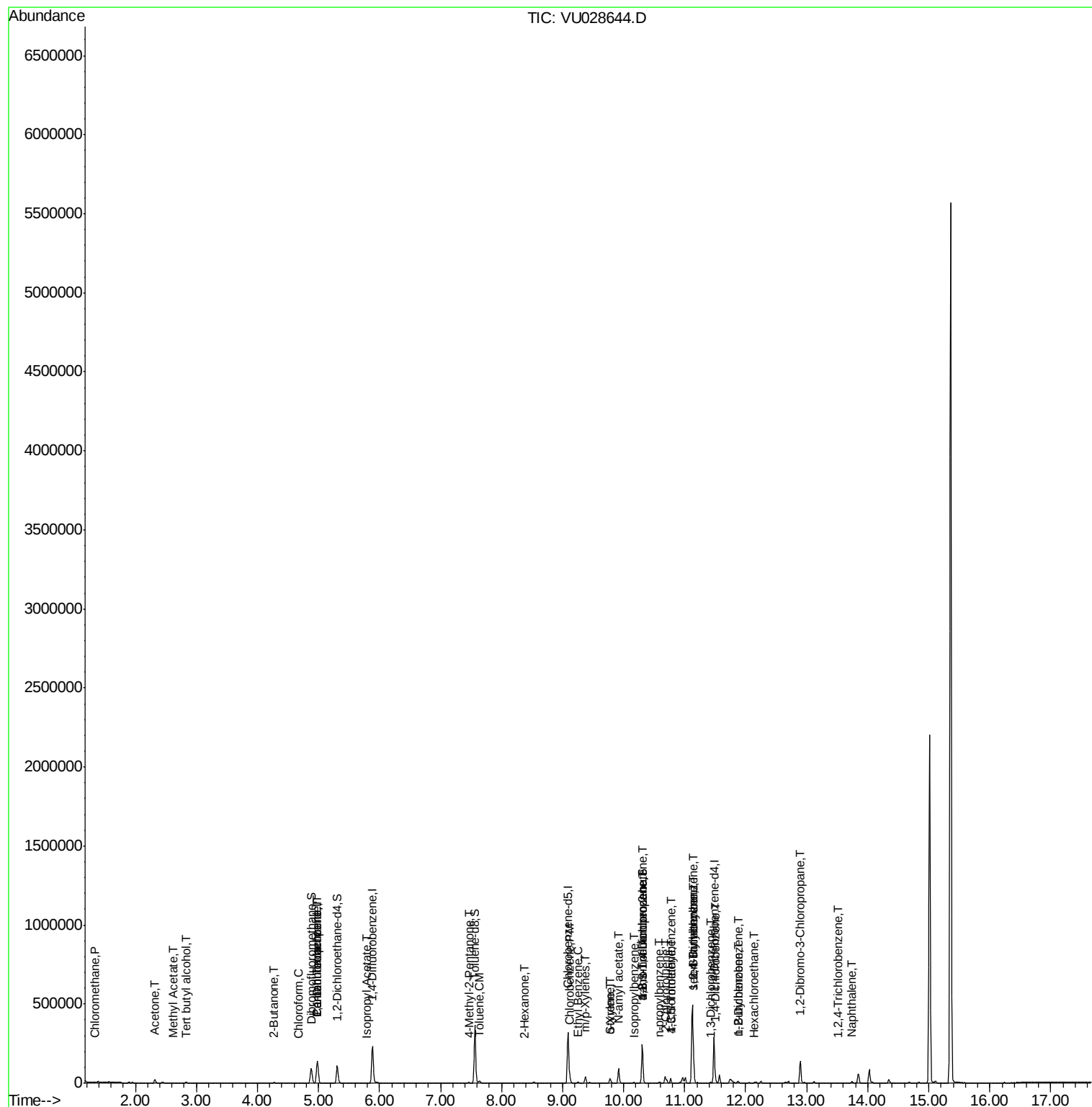
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2-Dibromo-3-Chloropropan	12.90	75	771	1.724	ug/l #	6
93) 1,2,4-Trichlorobenzene	13.51	180	115	0.913	ug/l #	69
95) Naphthalene	13.74	128	3732	0.655	ug/l #	91

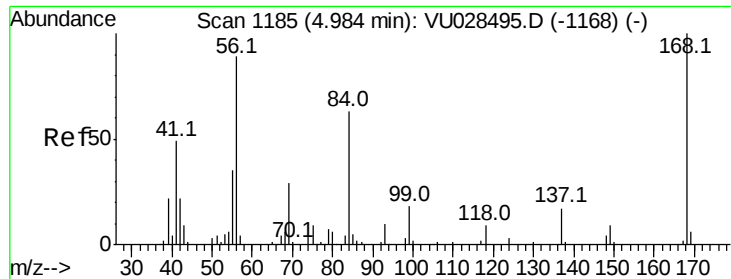
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

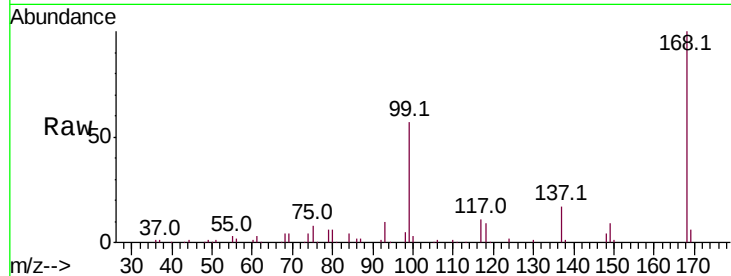
GROUND-WATER

Tot Ion:168 Resp: 108106

Ion Ratio Lower Upper

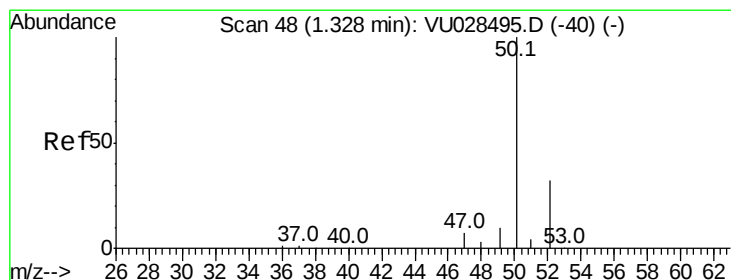
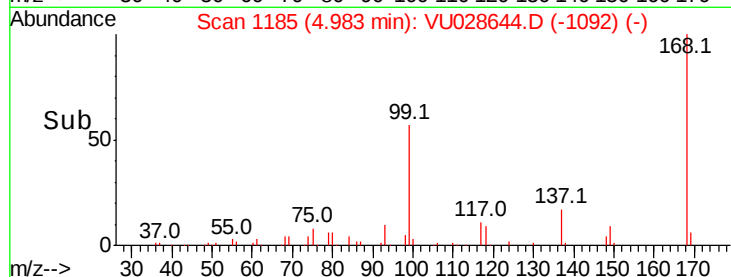
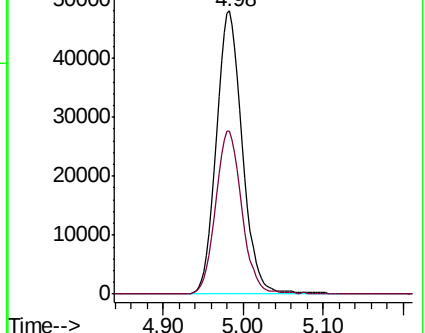
168 100

99 57.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)



#3

Chloromethane

Concen: 0.478 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028644.D

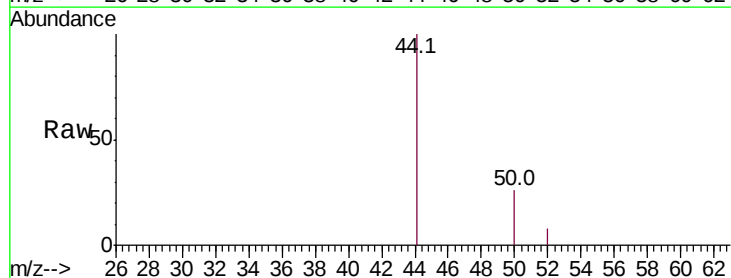
Acq: 12 Dec 2018 11:57

Tgt Ion: 50 Resp: 1273

Ion Ratio Lower Upper

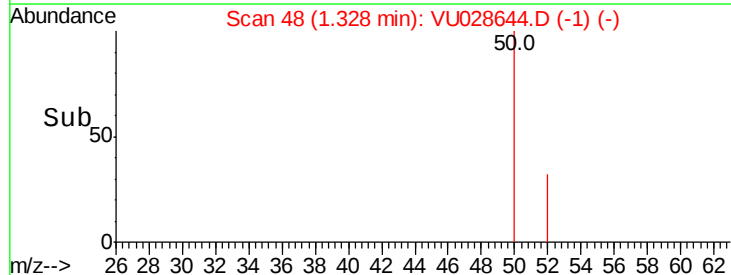
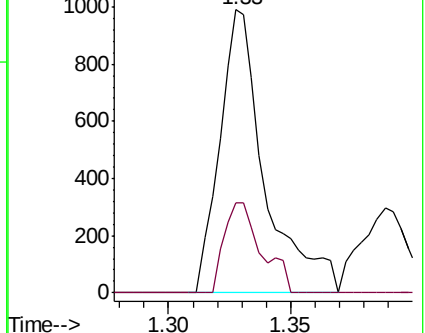
50 100

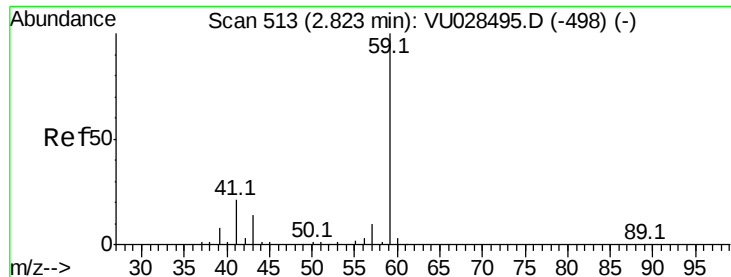
52 32.0 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)



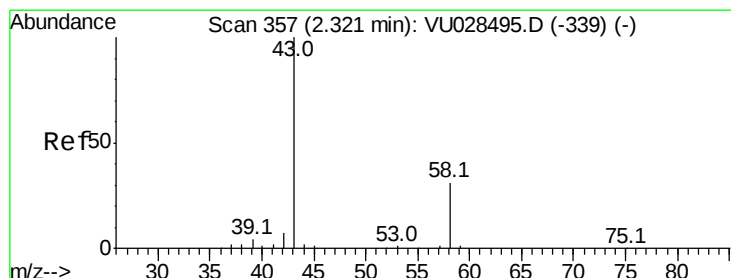
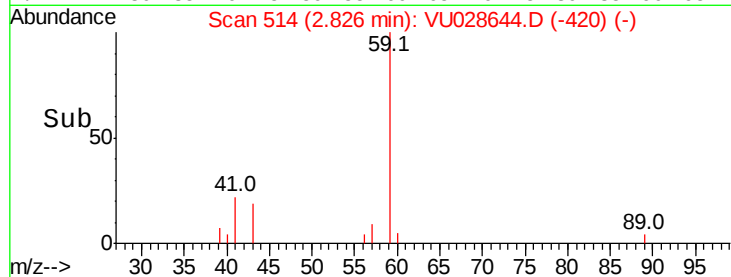
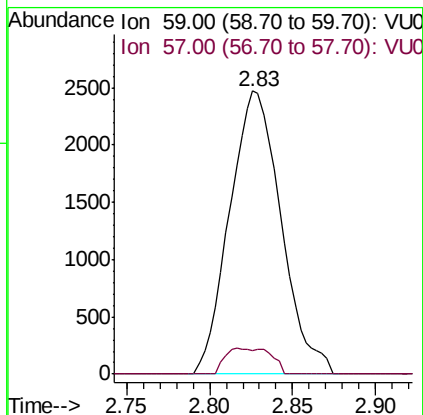
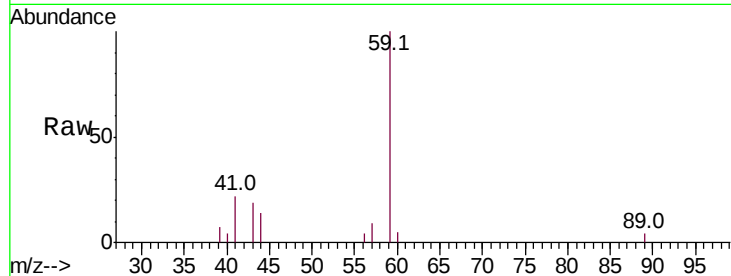


#11

Tert butyl alcohol
 Concen: 14.496 ug/l
 RT: 2.83 min Scan# 514
 Delta R.T. 0.00 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

Instrument :
 MSVOA_U
 ClientSampleId :
 GROUND-WATER

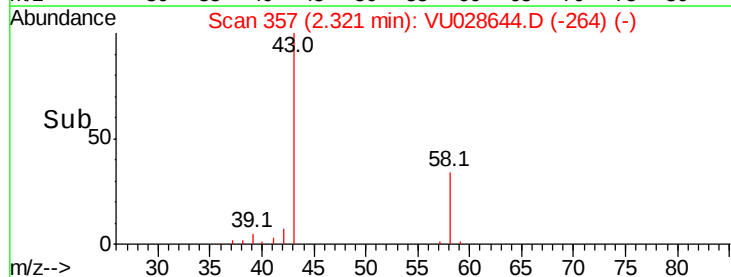
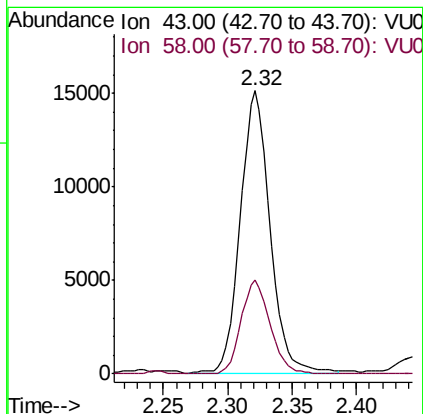
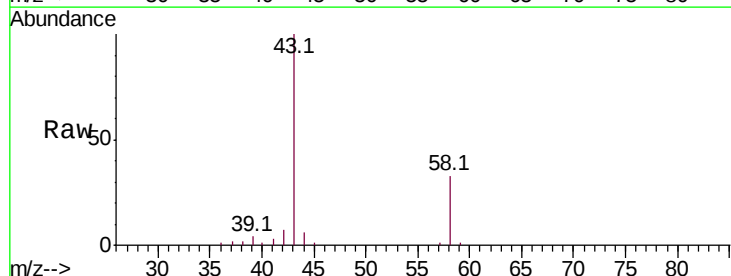
Tot Ion: 59 Resp: 5328
 Ion Ratio Lower Upper
 59 100
 57 8.1 8.0 12.0

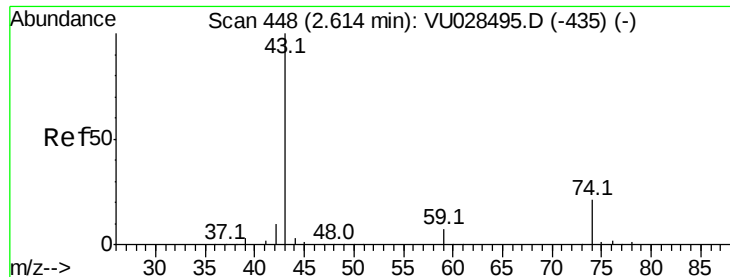


#16

Acetone
 Concen: 22.751 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

Tgt Ion: 43 Resp: 24493
 Ion Ratio Lower Upper
 43 100
 58 33.0 24.6 37.0

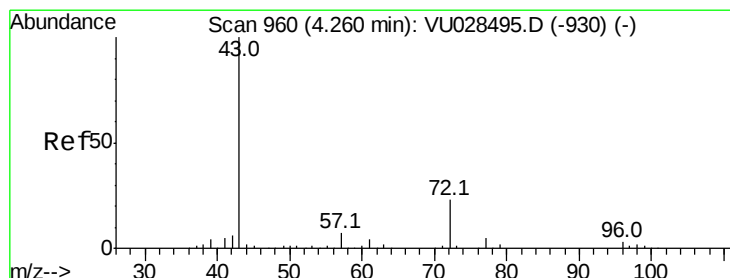
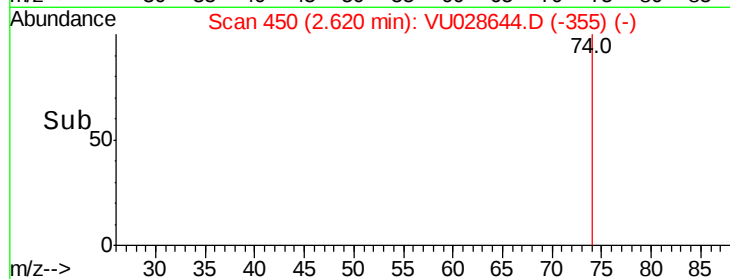
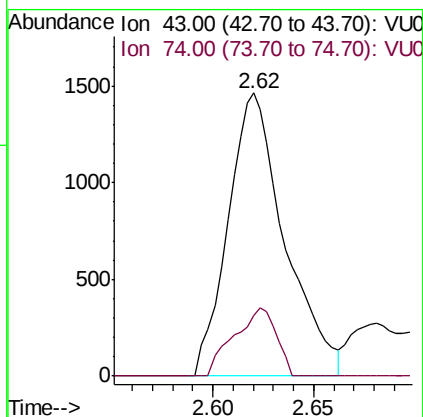
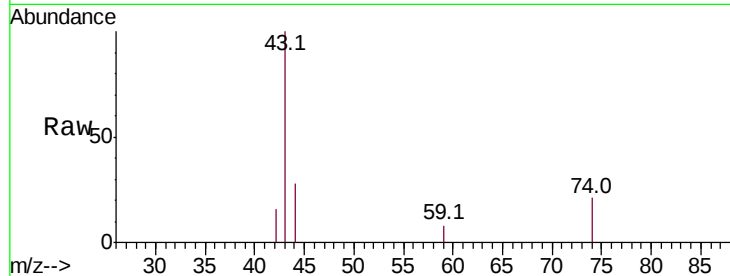




#18
Methvl Acetate
Concen: 1.025 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU028644.D
Acq: 12 Dec 2018 11:57

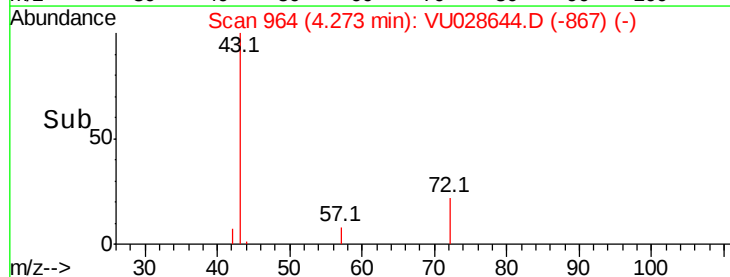
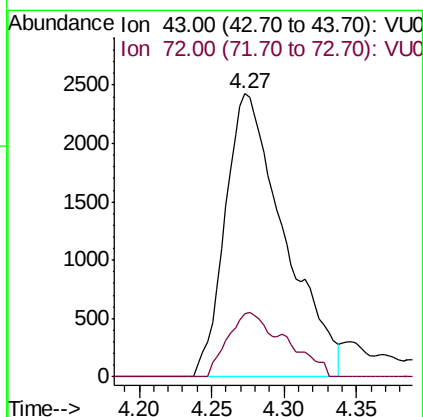
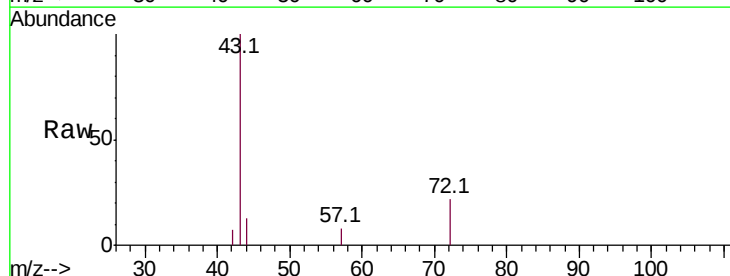
Instrument :
MSVOA_U
ClientSampleId :
GROUND-WATER

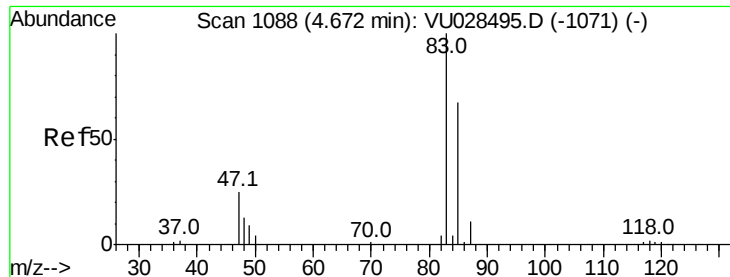
Tot Ion: 43 Resp: 2861
Ion Ratio Lower Upper
43 100
74 18.1 16.4 24.6



#25
2-Butanone
Concen: 4.663 ug/l
RT: 4.27 min Scan# 964
Delta R.T. 0.01 min
Lab File: VU028644.D
Acq: 12 Dec 2018 11:57

Tgt Ion: 43 Resp: 6860
Ion Ratio Lower Upper
43 100
72 22.3 18.6 28.0





#30

Chloroform

Concen: 0.208 ug/l

RT: 4.68 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

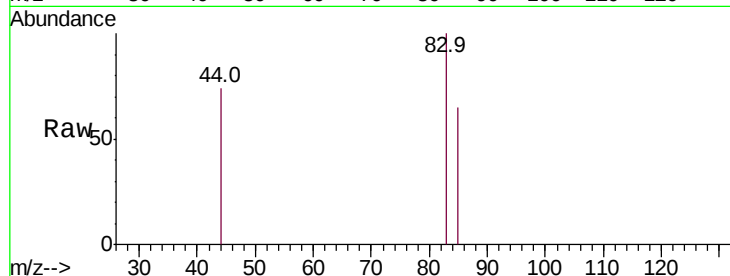
GROUND-WATER

Tot Ion: 83 Resp: 526

Ion Ratio Lower Upper

83 100

85 64.6 53.6 80.4



Abundance Ion 82.90 (82.60 to 83.60): VU028495.D (-1071) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-1071) (-)

4.68

300

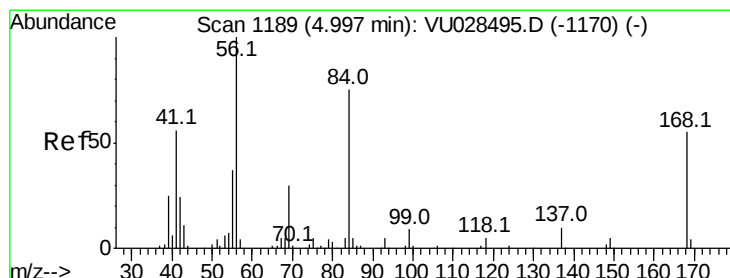
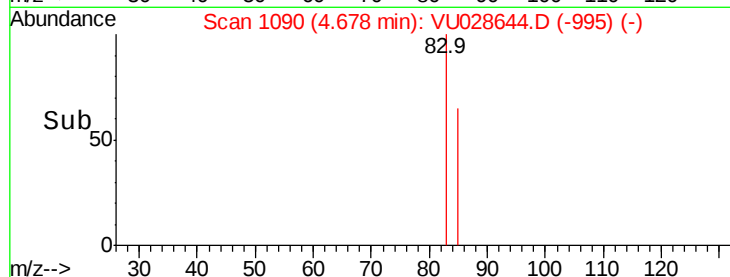
200

100

0

4.65 4.70

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

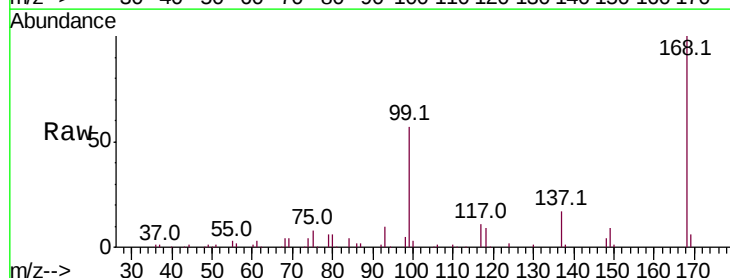
Tgt Ion: 56 Resp: 2572

Ion Ratio Lower Upper

56 100

69 156.1 24.0 36.0#

84 154.7 59.7 89.5#



Abundance Ion 56.00 (55.70 to 56.70): VU028495.D (-1170) (-)

Ion 69.00 (68.70 to 69.70): VU028495.D (-1170) (-)

Ion 84.00 (83.70 to 84.70): VU028495.D (-1170) (-)

2000

1500

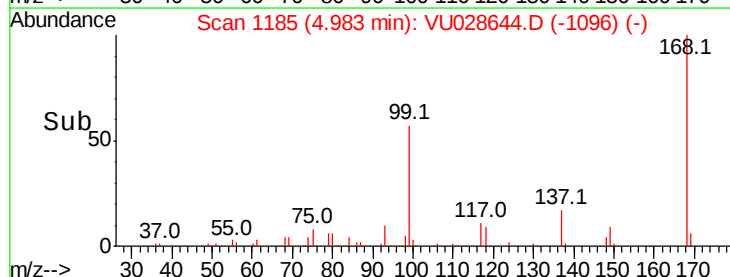
1000

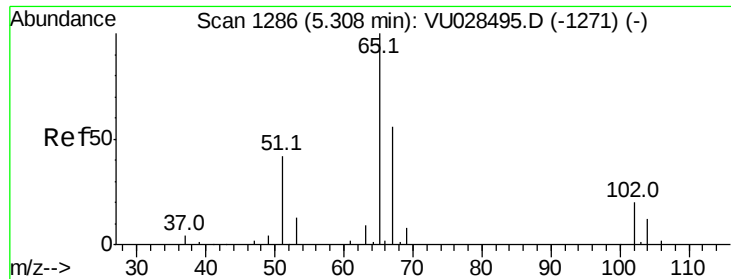
500

0

4.95 5.00

Time-->

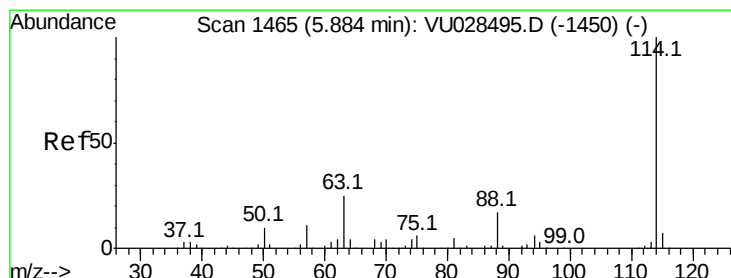
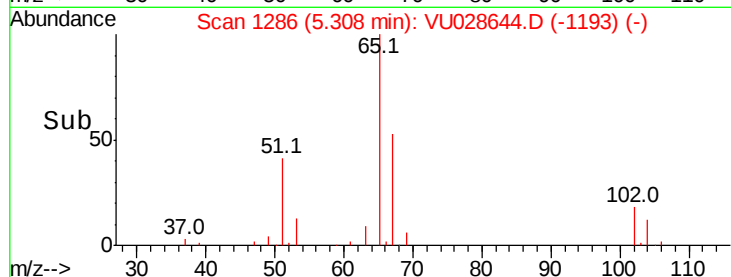
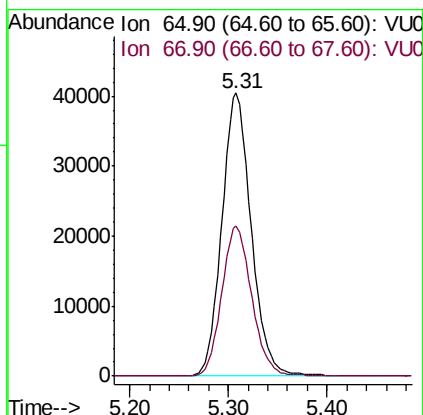
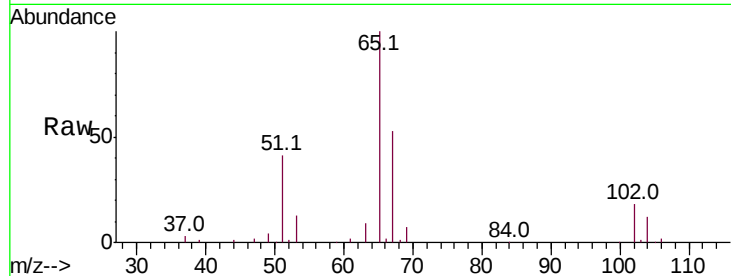




#33
 1,2-Dichloroethane-d4
 Concen: 51.077 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

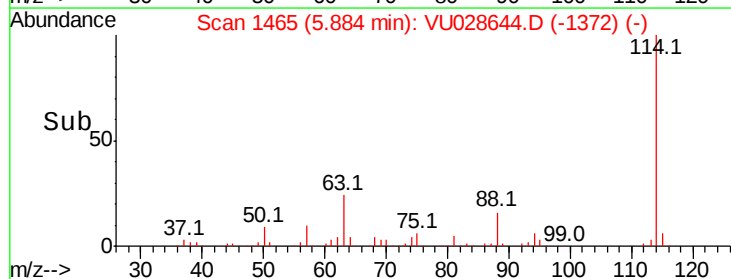
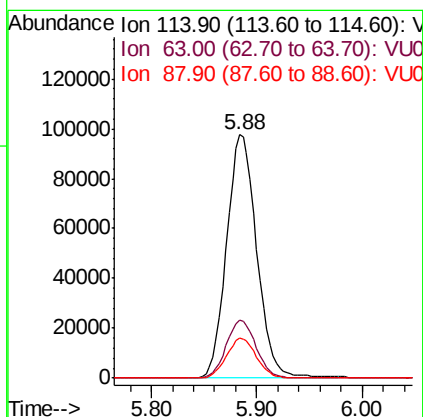
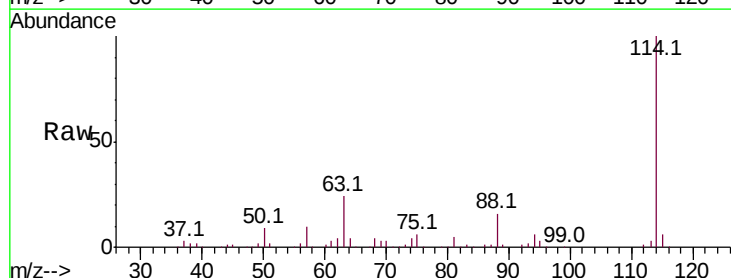
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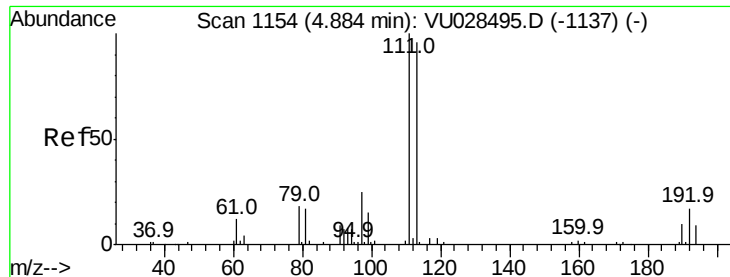
Tot Ion: 65 Resp: 84265
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

Tgt Ion: 114 Resp: 192885
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 49.2
 88 16.3 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.851 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

GROUND-WATER

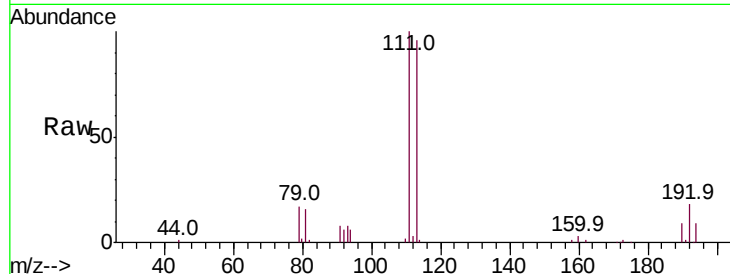
Tot Ion:113 Resp: 64152

Ion Ratio Lower Upper

113 100

111 103.5 83.4 125.0

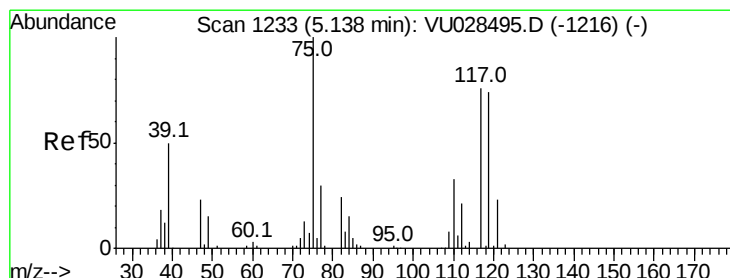
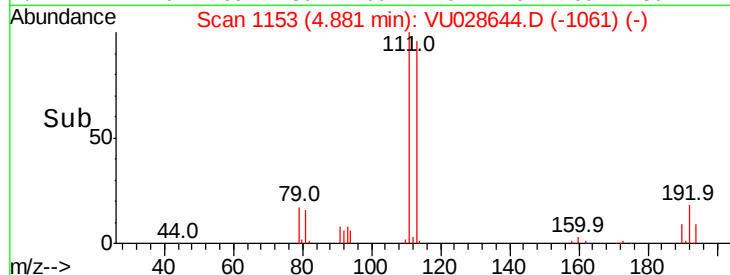
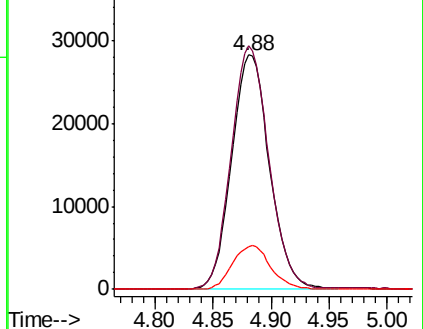
192 18.8 14.8 22.2



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: 4.100 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

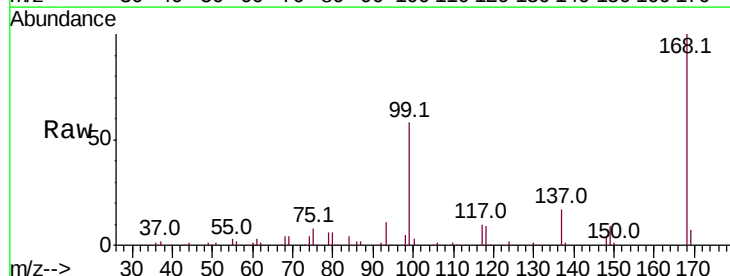
Tgt Ion: 75 Resp: 8654

Ion Ratio Lower Upper

75 100

110 5.3 16.1 48.2#

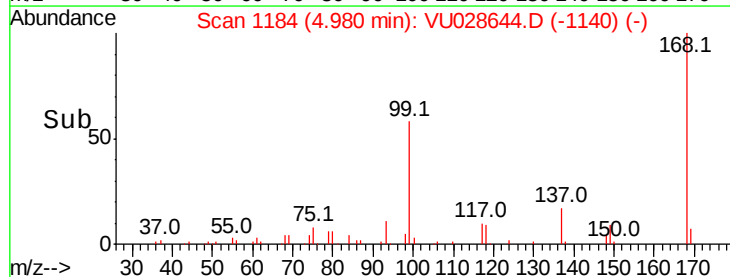
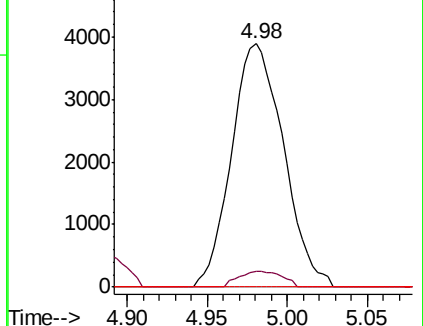
77 0.0 24.5 36.7#

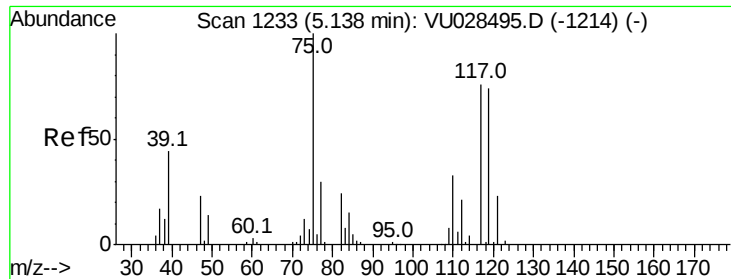


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 6.259 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampled :

GROUND-WATER

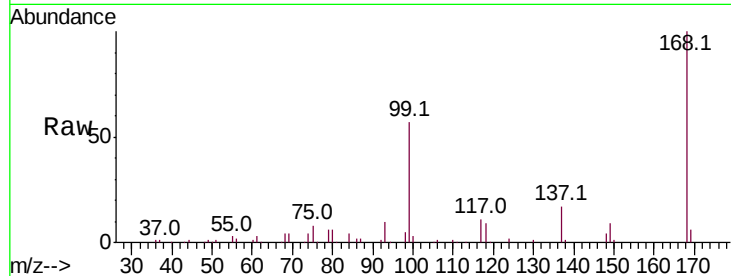
Tot Ion:117 Resp: 10648

Ion Ratio Lower Upper

117 100

119 3.5 77.6 116.4#

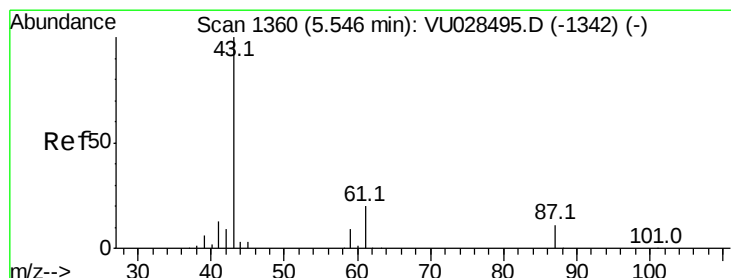
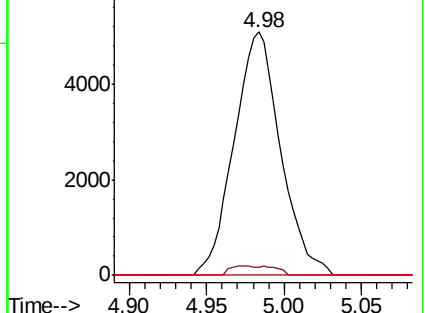
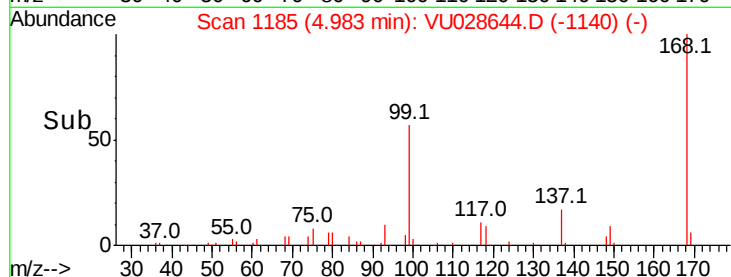
121 0.0 24.6 36.8#



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: 0.244 ug/l

RT: 5.80 min Scan# 1439

Delta R.T. 0.25 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

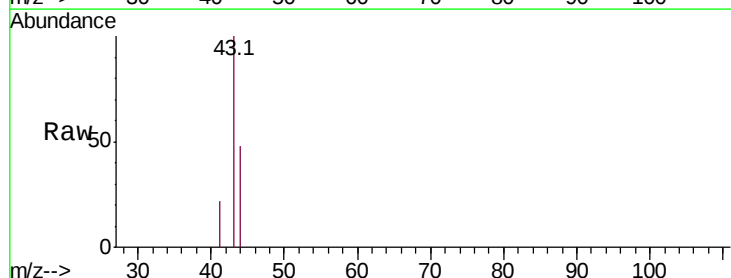
Tgt Ion: 43 Resp: 1054

Ion Ratio Lower Upper

43 100

61 0.0 15.5 23.3#

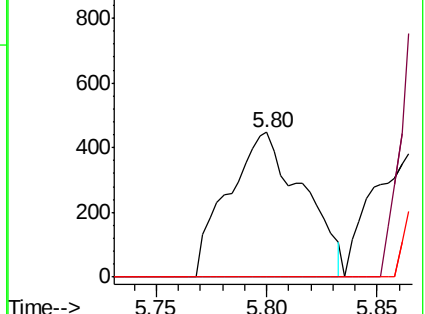
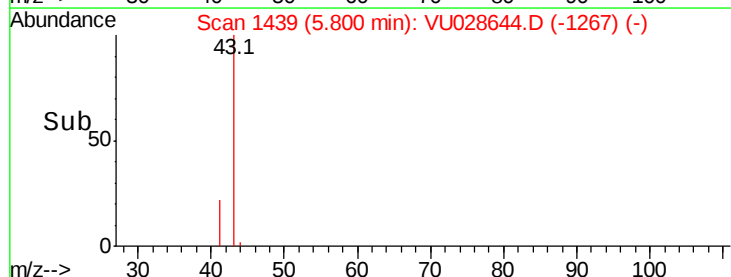
87 0.0 8.7 13.1#

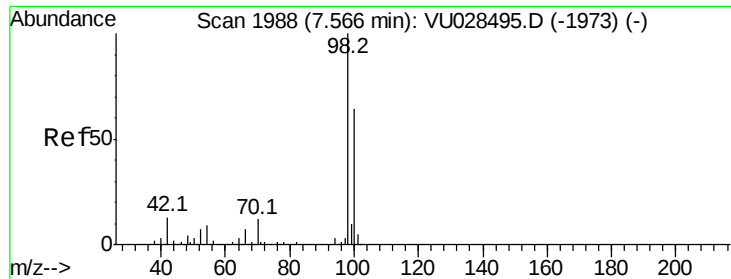


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

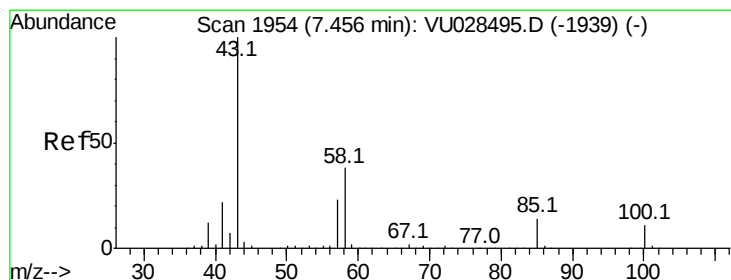
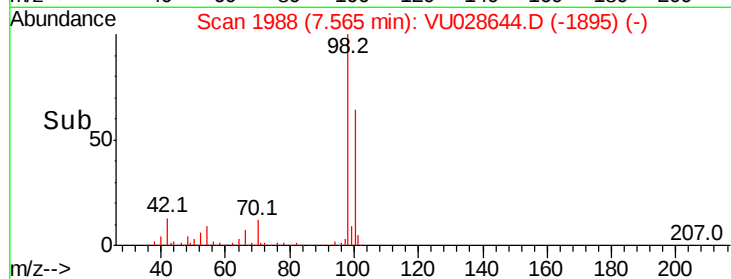
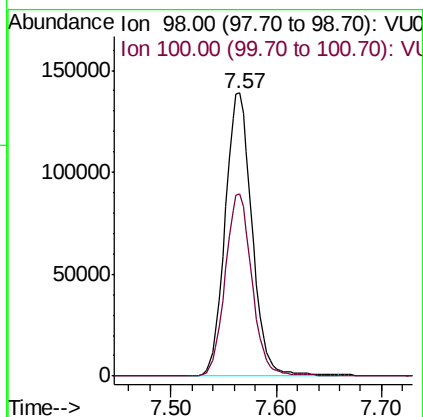
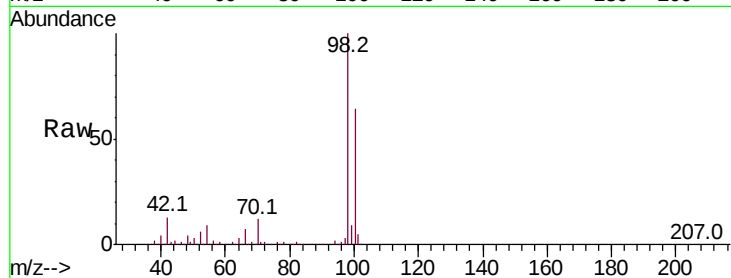




#50
Toluene-d8
Concen: 50.933 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028644.D
Acq: 12 Dec 2018 11:57

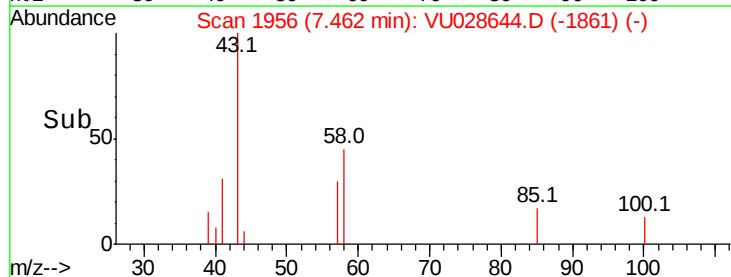
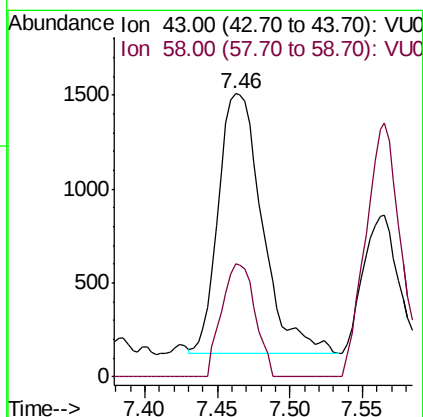
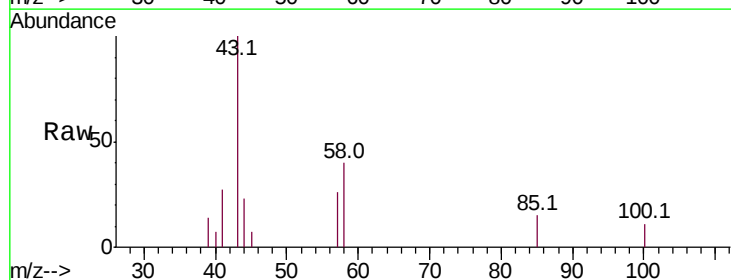
Instrument :
MSVOA_U
ClientSampleId :
GROUND-WATER

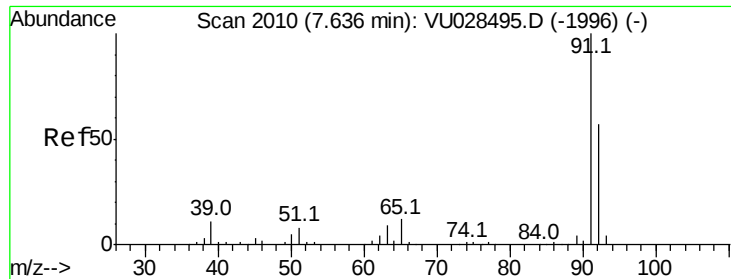
Tot Ion: 98 Resp: 244565
Ion Ratio Lower Upper
98 100
100 63.9 51.0 76.6



#51
4-Methyl-2-Pentanone
Concen: 1.072 ug/l
RT: 7.46 min Scan# 1956
Delta R.T. 0.01 min
Lab File: VU028644.D
Acq: 12 Dec 2018 11:57

Tgt Ion: 43 Resp: 2918
Ion Ratio Lower Upper
43 100
58 32.7 30.2 45.2





#52

Toluene

Concen: 1.266 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

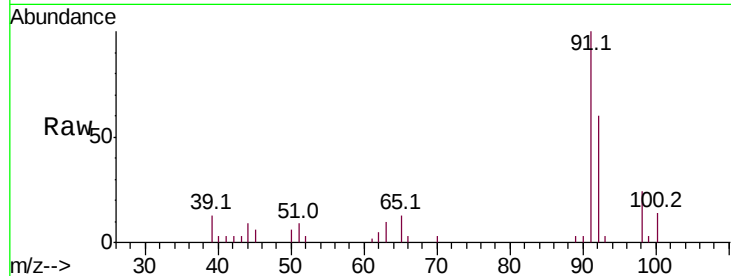
GROUND-WATER

Tot Ion: 92 Resp: 4632

Ion Ratio Lower Upper

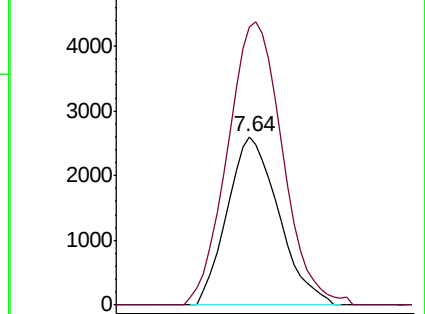
92 100

91 180.1 140.2 210.4

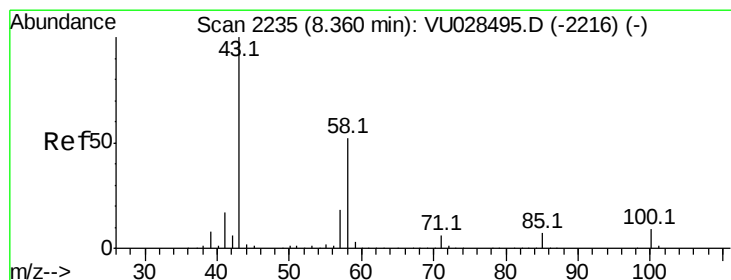
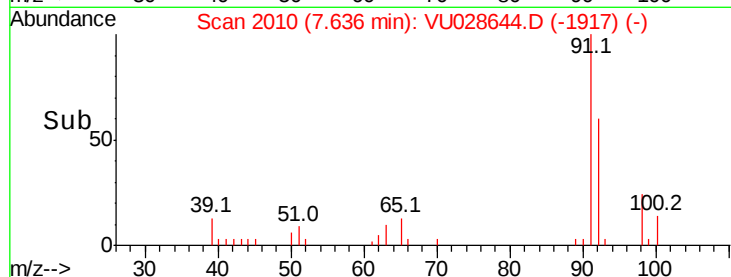


Abundance Ion 92.00 (91.70 to 92.70): VU028495.D (-1996) (-)

Ion 91.00 (90.70 to 91.70): VU028495.D (-1996) (-)



Time-->



#59

2-Hexanone

Concen: 0.492 ug/l

RT: 8.38 min Scan# 2242

Delta R.T. 0.02 min

Lab File: VU028644.D

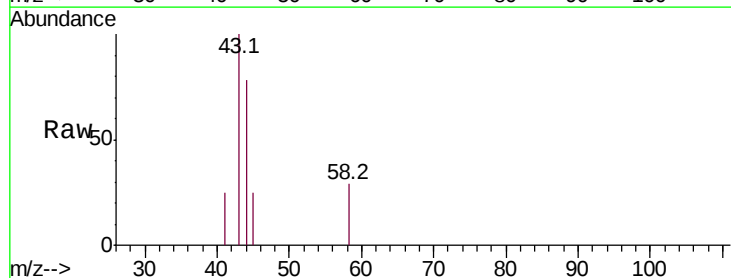
Acq: 12 Dec 2018 11:57

Tgt Ion: 43 Resp: 1062

Ion Ratio Lower Upper

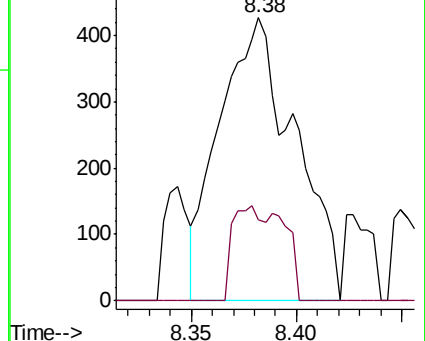
43 100

58 14.0 25.9 77.6#

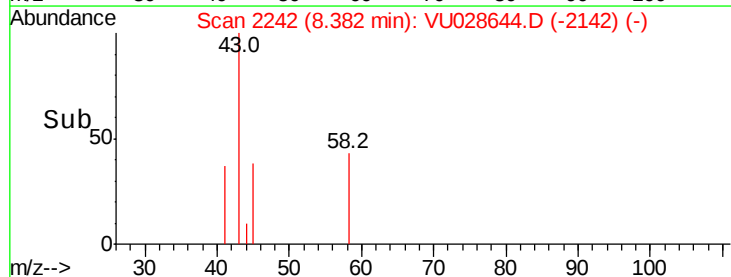


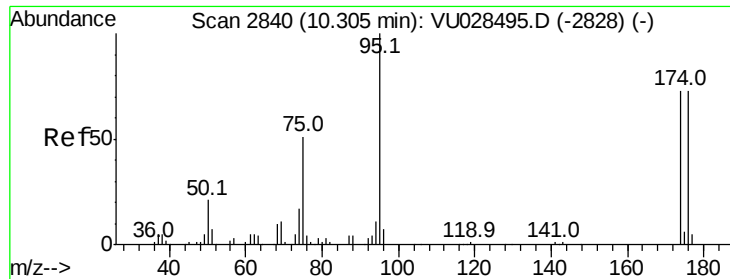
Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-2216) (-)



Time-->

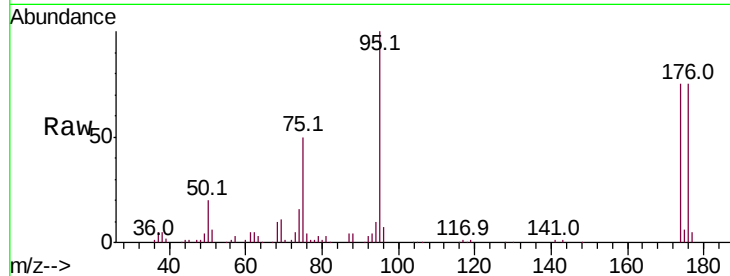




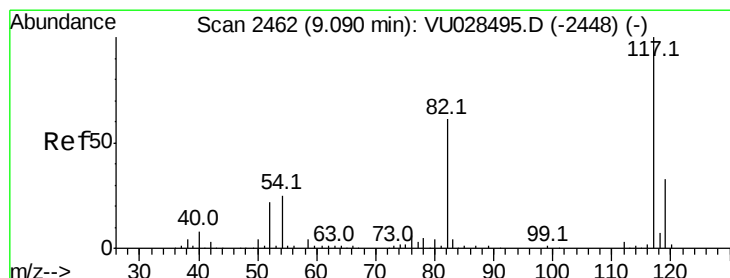
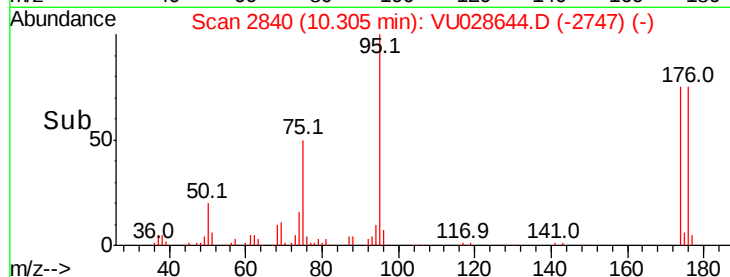
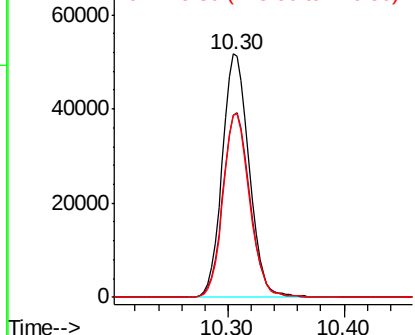
#62
 4-Bromofluorobenzene
 Concen: 46.025 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.00 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

Instrument :
 MSVOA_U
 ClientSampleId :
 GROUND-WATER

Tot Ion: 95 Resp: 82601
 Ion Ratio Lower Upper
 95 100
 174 76.4 0.0 150.4
 176 74.5 0.0 145.2

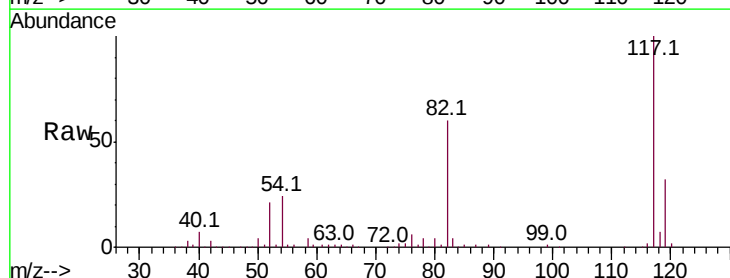


Abundance Ion 94.90 (94.60 to 95.60): VU028495.D (-2828) (-)
 Ion 173.80 (173.50 to 174.50): VU028495.D (-2828) (-)
 Ion 175.80 (175.50 to 176.50): VU028495.D (-2828) (-)

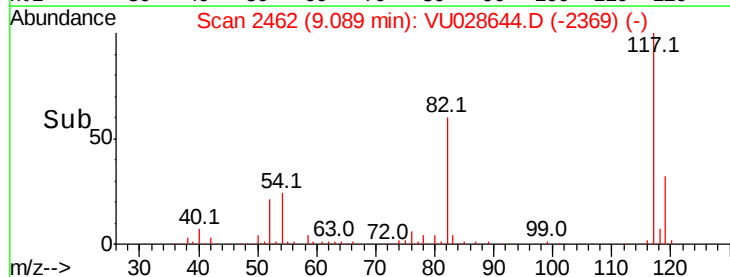
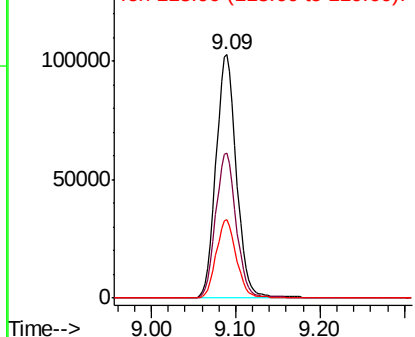


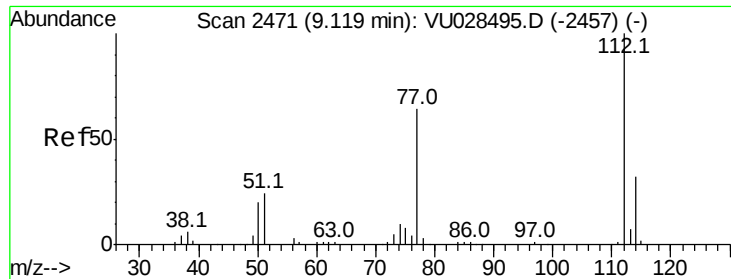
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

Tgt Ion: 117 Resp: 173403
 Ion Ratio Lower Upper
 117 100
 82 59.7 48.9 73.3
 119 32.0 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VU028495.D (-2448) (-)
 Ion 82.00 (81.70 to 82.70): VU028495.D (-2448) (-)
 Ion 118.90 (118.60 to 119.60): VU028495.D (-2448) (-)





#65

Chlorobenzene

Concen: 5.068 ug/l

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

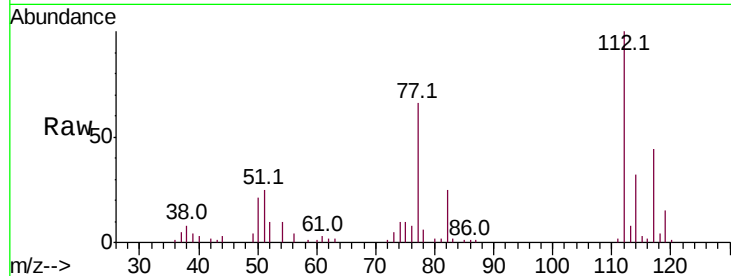
GROUND-WATER

Tot Ion:112 Resp: 18725

Ion Ratio Lower Upper

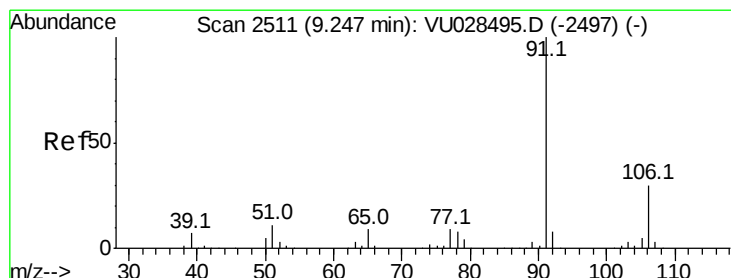
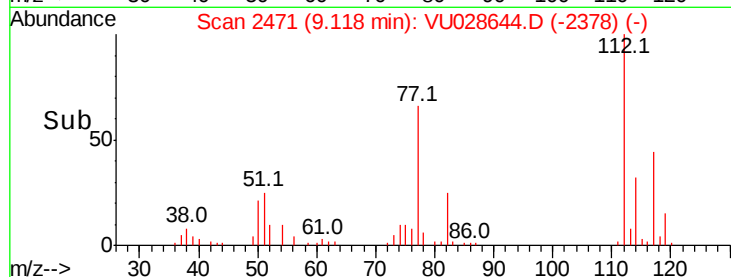
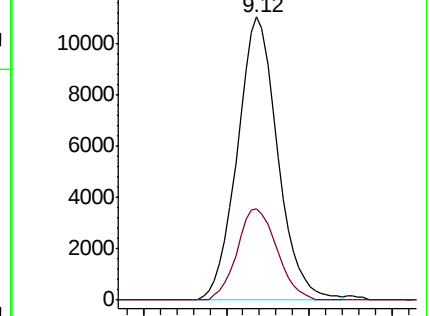
112 100

114 32.4 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 0.838 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028644.D

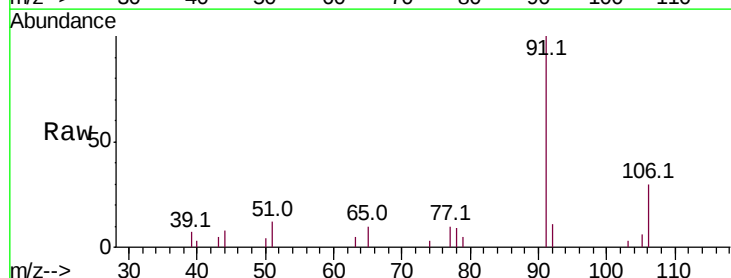
Acq: 12 Dec 2018 11:57

Tgt Ion: 91 Resp: 5689

Ion Ratio Lower Upper

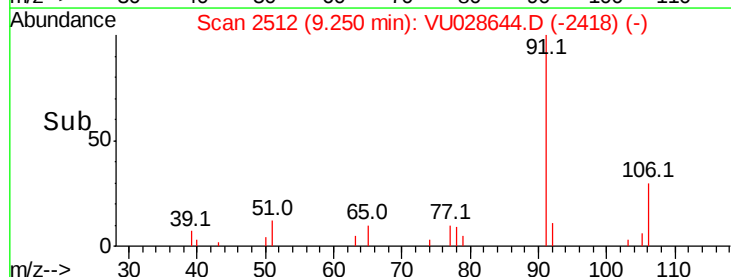
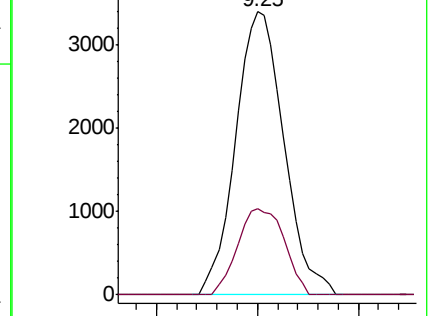
91 100

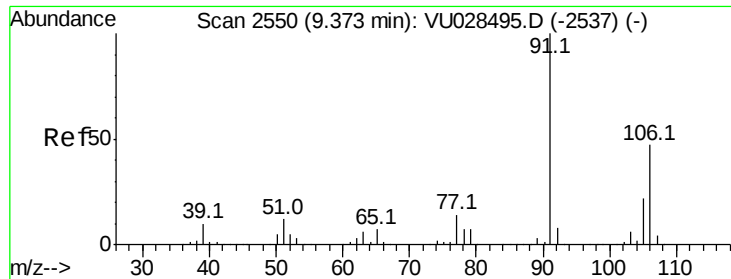
106 30.3 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

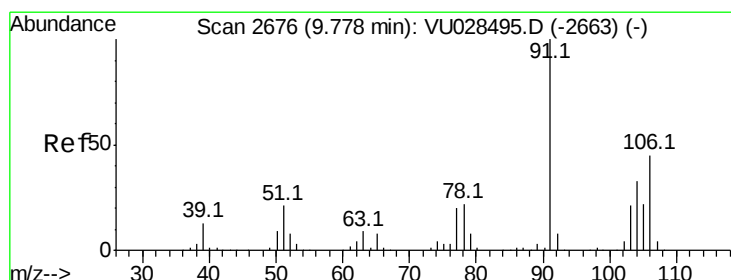
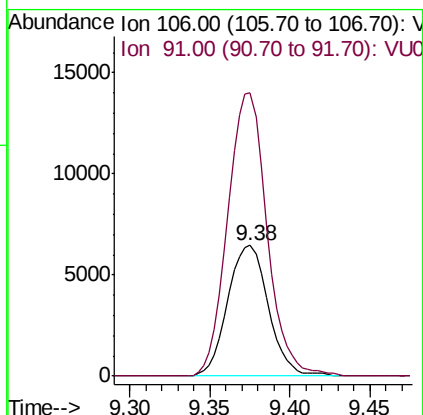
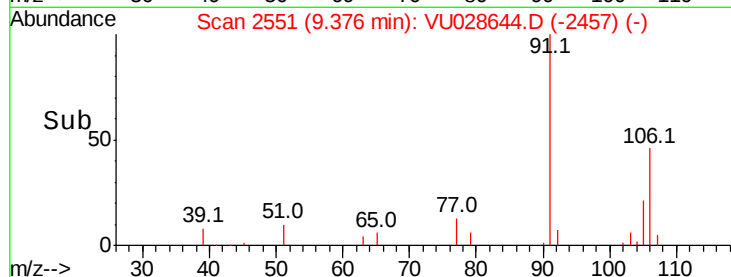
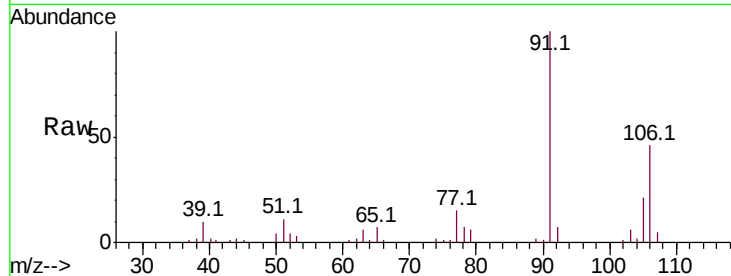




#68
m/p-Xylenes
Concen: 4.546 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU028644.D
Acq: 12 Dec 2018 11:57

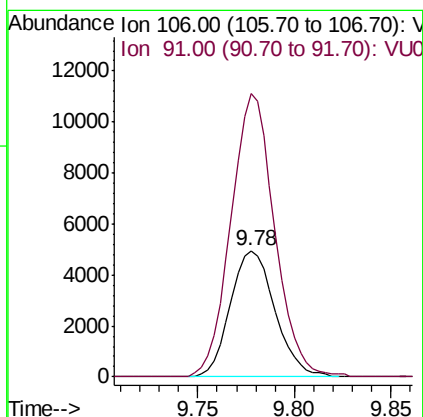
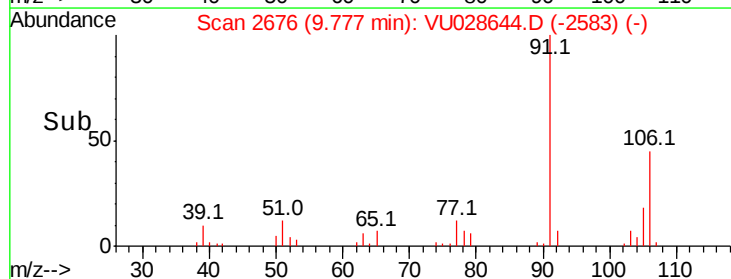
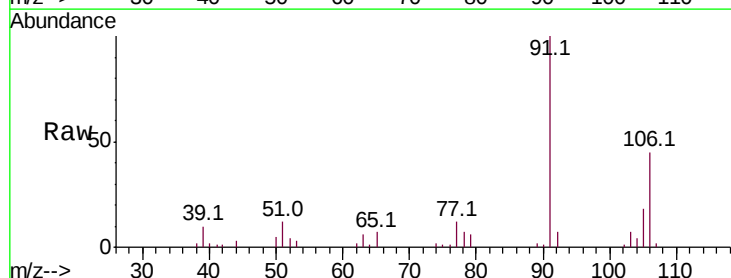
Instrument :
MSVOA_U
ClientSampleId :
GROUND-WATER

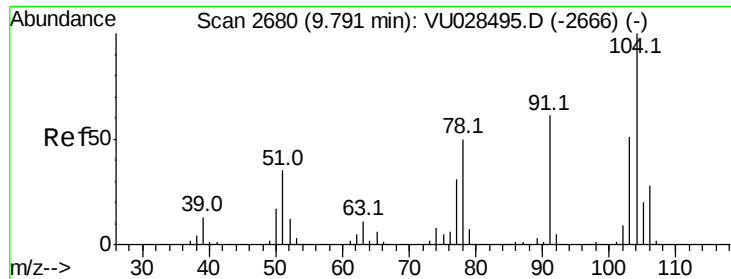
Tot Ion:106 Resp: 11236
Ion Ratio Lower Upper
106 100
91 208.8 167.4 251.0



#69
o-Xylene
Concen: 3.296 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028644.D
Acq: 12 Dec 2018 11:57

Tgt Ion:106 Resp: 7918
Ion Ratio Lower Upper
106 100
91 220.6 111.3 334.0

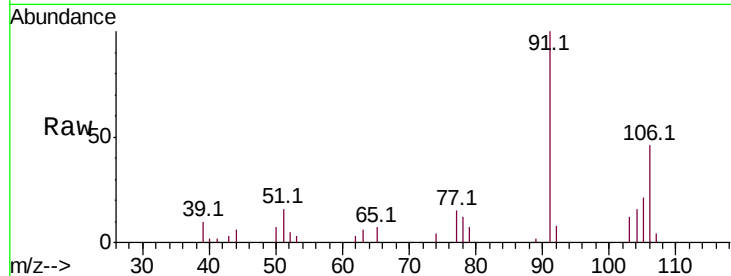




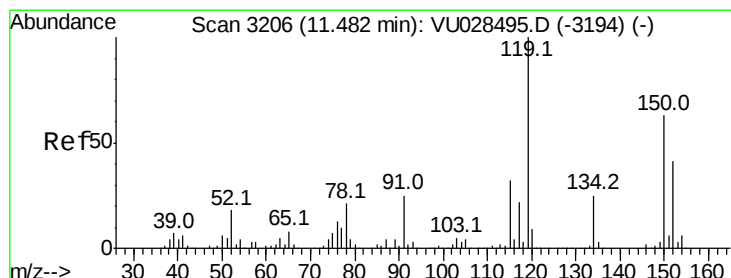
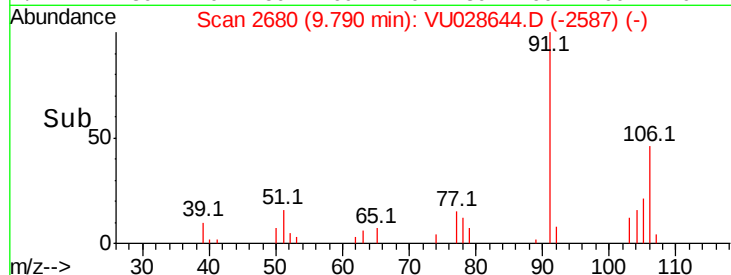
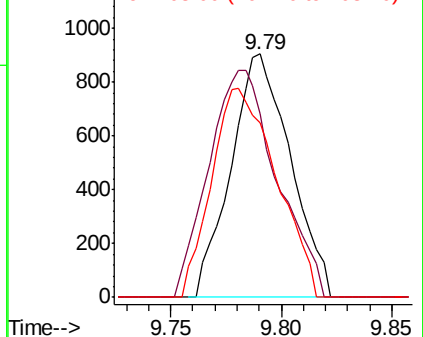
#70
Stvrene
Concen: 0.426 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028644.D
Acq: 12 Dec 2018 11:57

Instrument :
MSVOA_U
ClientSampleId :
GROUND-WATER

Tot Ion:104 Resp: 1695
Ion Ratio Lower Upper
104 100
78 106.7 43.0 64.6#
103 93.1 44.2 66.4#

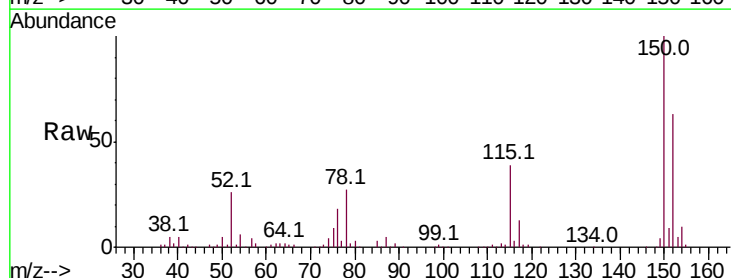


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

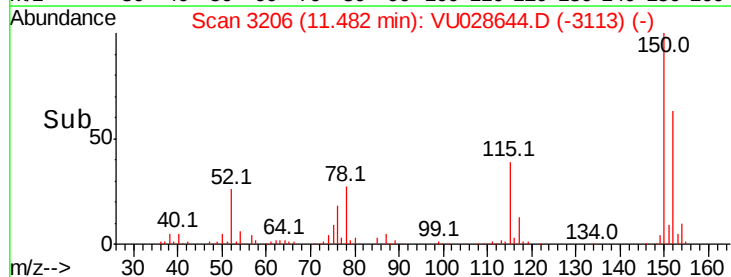
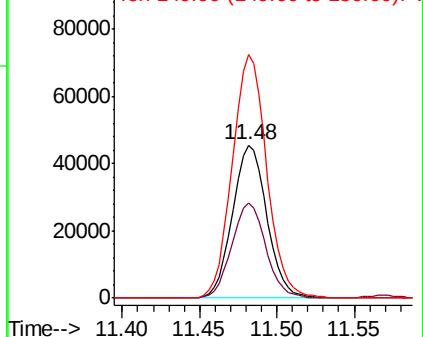


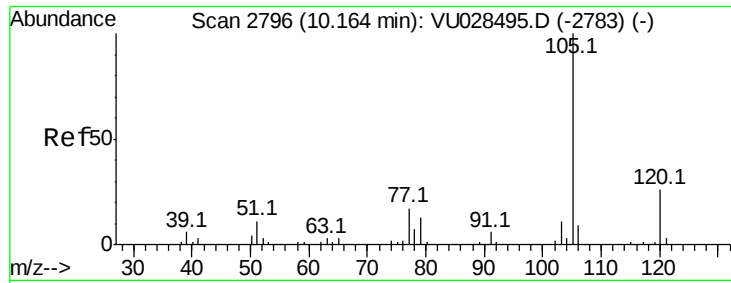
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028644.D
Acq: 12 Dec 2018 11:57

Tgt Ion:152 Resp: 70093
Ion Ratio Lower Upper
152 100
115 61.6 42.7 128.1
150 159.7 0.0 346.0



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





#73

Isopropylbenzene

Concen: 0.441 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

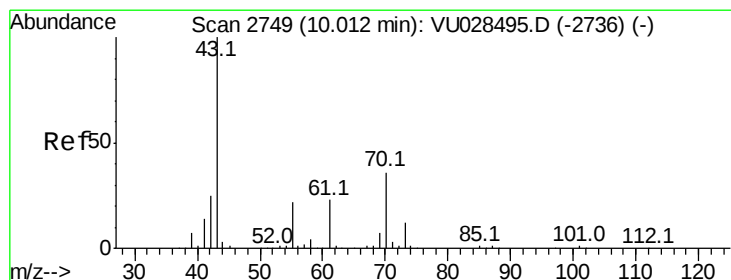
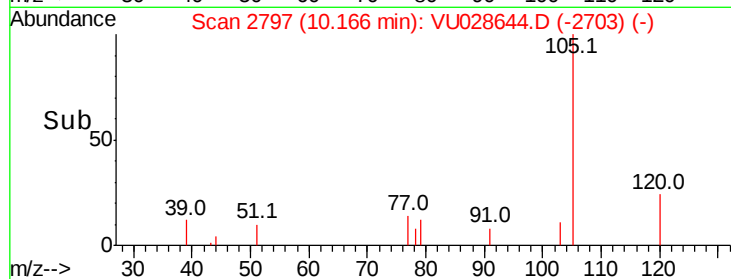
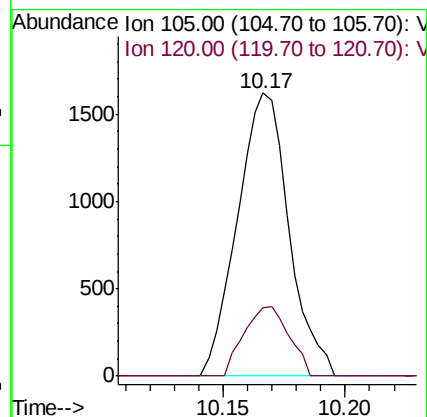
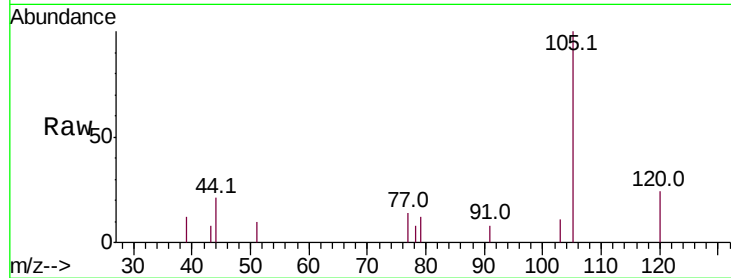
GROUND-WATER

Tot Ion:105 Resp: 2370

Ion Ratio Lower Upper

105 100

120 21.5 12.9 38.6



#74

N-ethyl acetate

Concen: 20.028 ug/l

RT: 9.92 min Scan# 2720

Delta R.T. -0.09 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Tgt Ion: 43 Resp: 62136

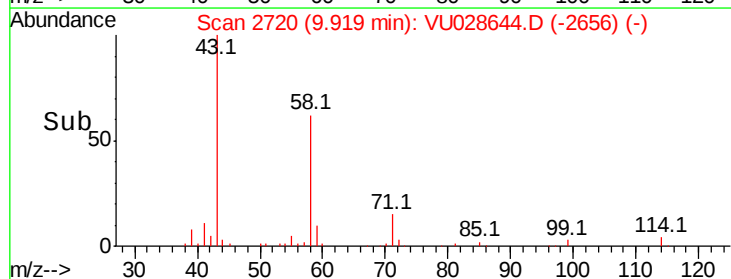
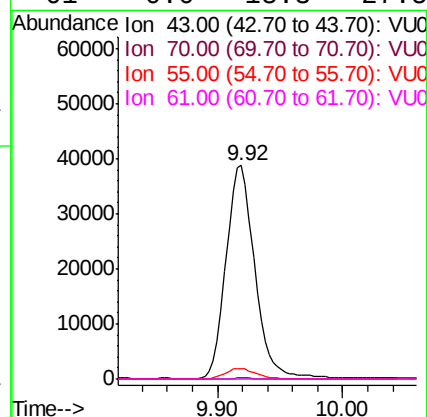
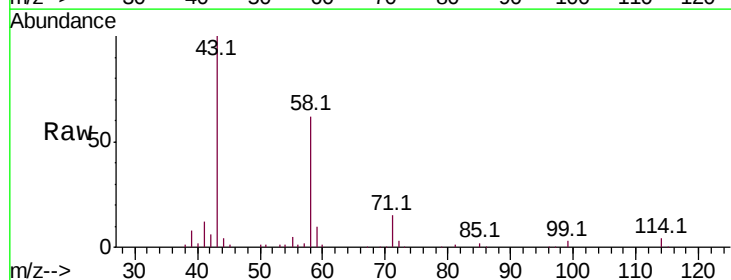
Ion Ratio Lower Upper

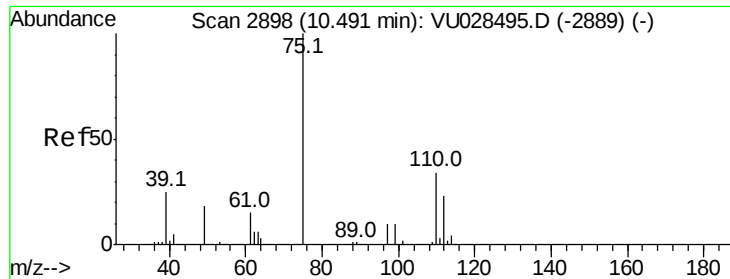
43 100

70 0.3 29.3 43.9#

55 5.1 18.0 27.0#

61 0.0 18.3 27.5#





#76

1,2,3-Trichloropropane

Concen: 23.517 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

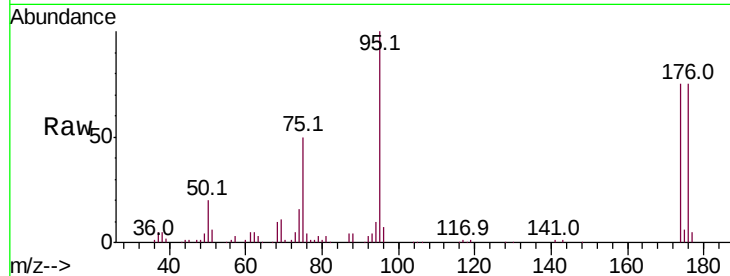
GROUND-WATER

Tot Ion: 75 Resp: 42091

Ion Ratio Lower Upper

75 100

77 1.2 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.30

25000

20000

15000

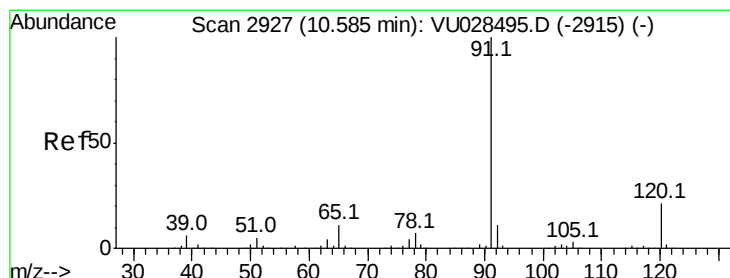
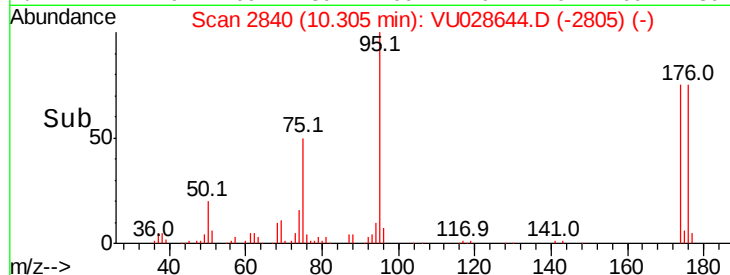
10000

5000

0

Time-->

10.25 10.30 10.35 10.40



#78

n-propylbenzene

Concen: 1.017 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU028644.D

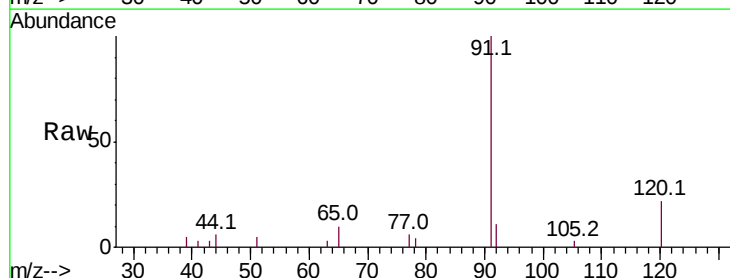
Acq: 12 Dec 2018 11:57

Tgt Ion: 91 Resp: 6797

Ion Ratio Lower Upper

91 100

120 21.0 10.6 31.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V

10.59

5000

4000

3000

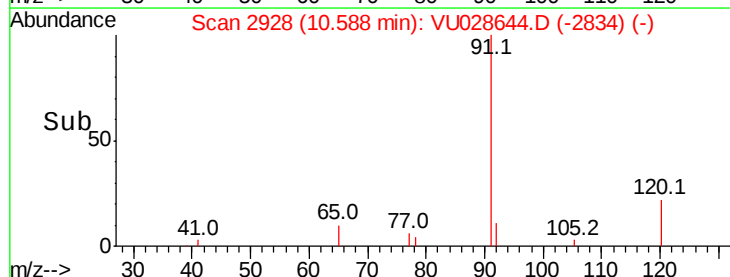
2000

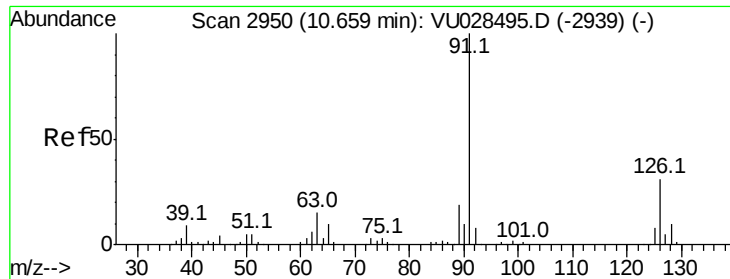
1000

0

Time-->

10.55 10.60 10.65

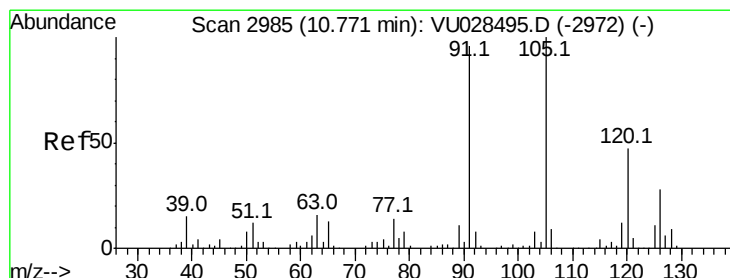
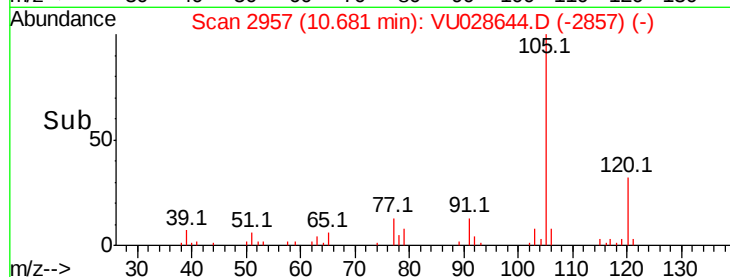
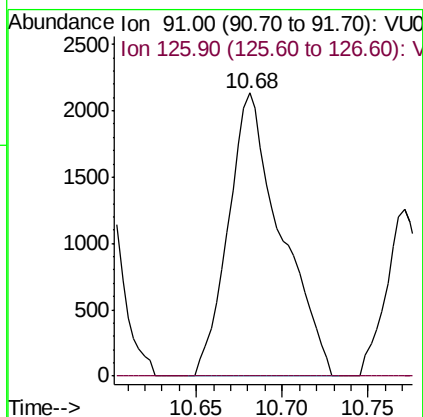
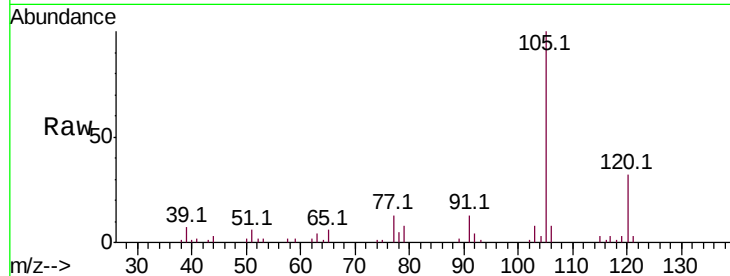




#79
 2-Chlorotoluene
 Concen: 1.182 ug/l
 RT: 10.68 min Scan# 2957
 Delta R.T. 0.02 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

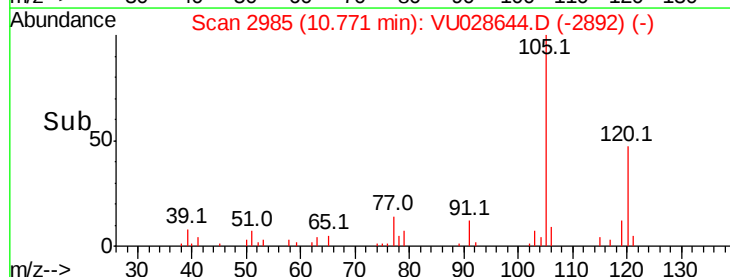
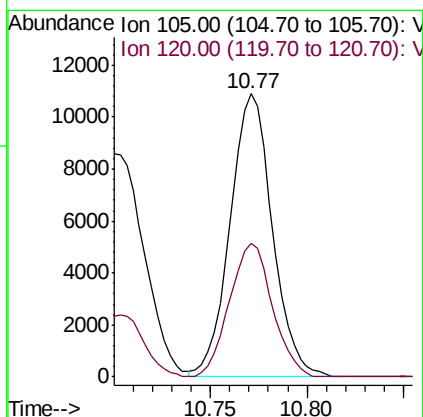
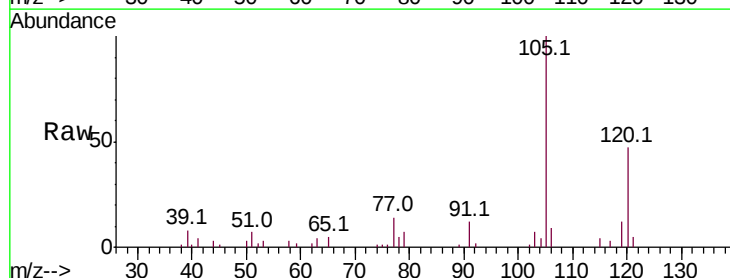
Instrument :
 MSVOA_U
 ClientSampleId :
 GROUND-WATER

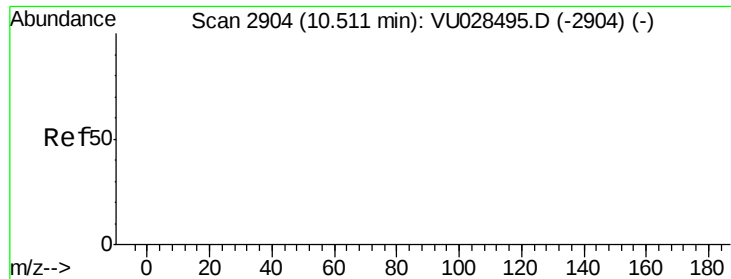
Tot Ion: 91 Resp: 4551
 Ion Ratio Lower Upper
 91 100
 126 0.0 15.6 46.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 3.720 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

Tgt Ion:105 Resp: 16562
 Ion Ratio Lower Upper
 105 100
 120 47.8 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 57.738 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

GROUND-WATER

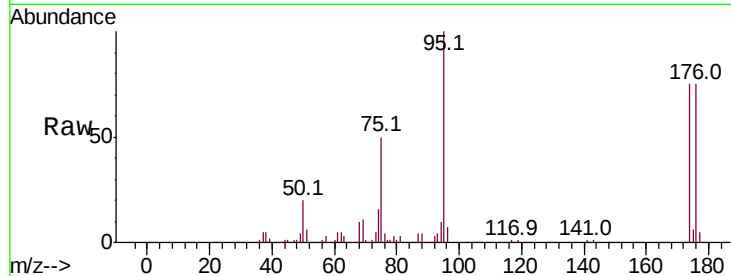
Tot Ion: 75 Resp: 42091

Ion Ratio Lower Upper

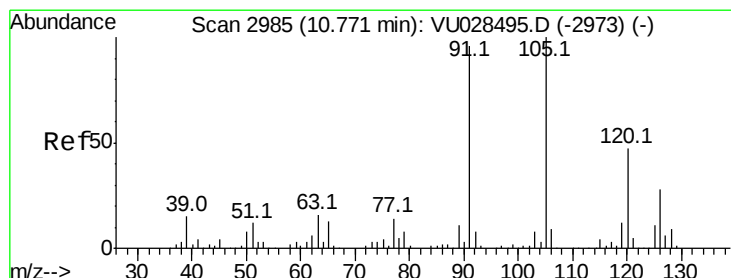
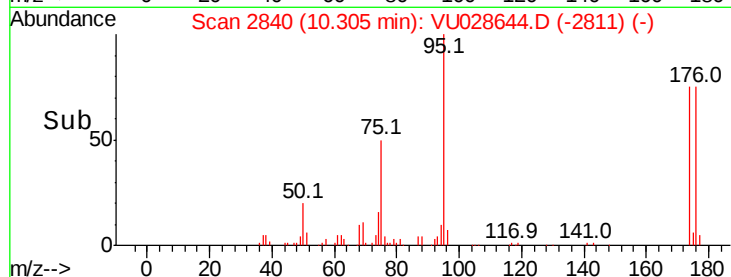
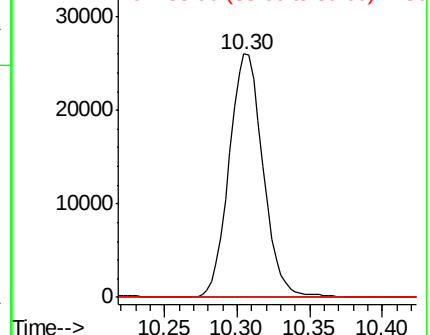
75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0



#82

4-Chlorotoluene

Concen: 0.405 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028644.D

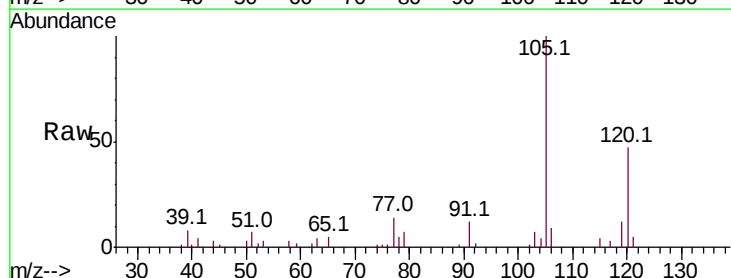
Acq: 12 Dec 2018 11:57

Tgt Ion: 91 Resp: 1846

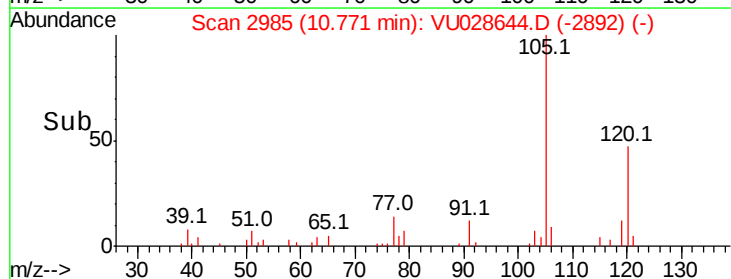
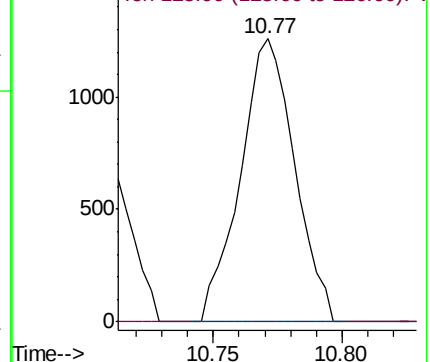
Ion Ratio Lower Upper

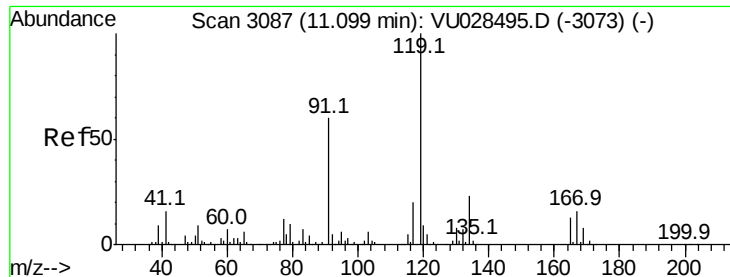
91 100

126 0.0 14.1 42.3#



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 2.158 ug/l

RT: 11.14 min Scan# 3101

Delta R.T. 0.04 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

GROUND-WATER

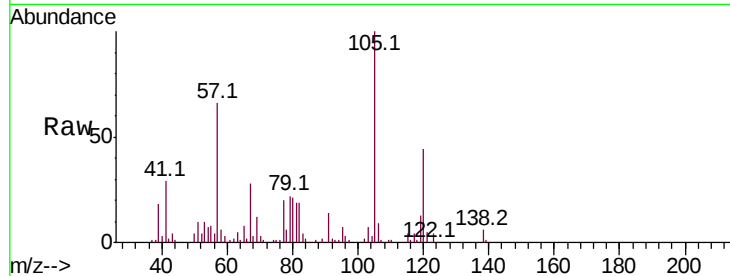
Tot Ion:119 Resp: 9261

Ion Ratio Lower Upper

119 100

91 143.7 30.3 91.0#

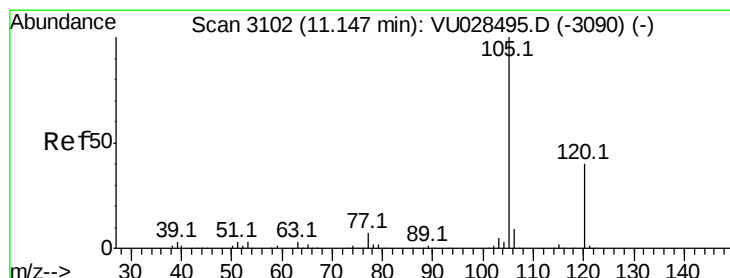
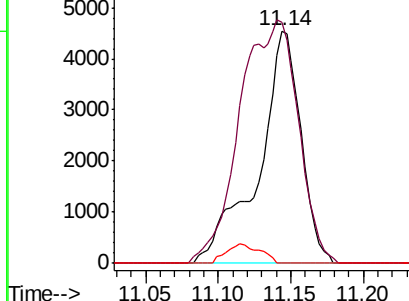
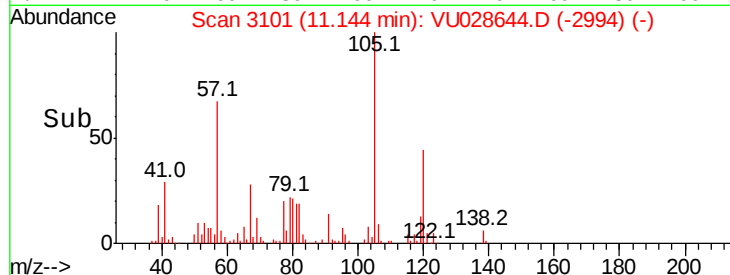
134 0.0 11.2 33.5#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 12.116 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. -0.00 min

Lab File: VU028644.D

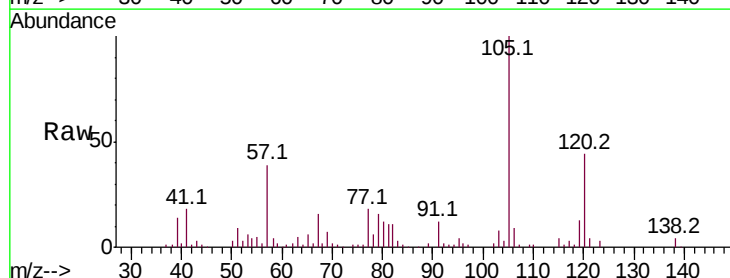
Acq: 12 Dec 2018 11:57

Tgt Ion:105 Resp: 55593

Ion Ratio Lower Upper

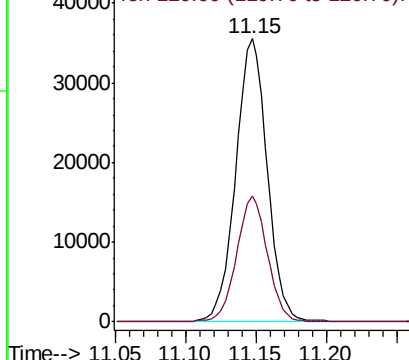
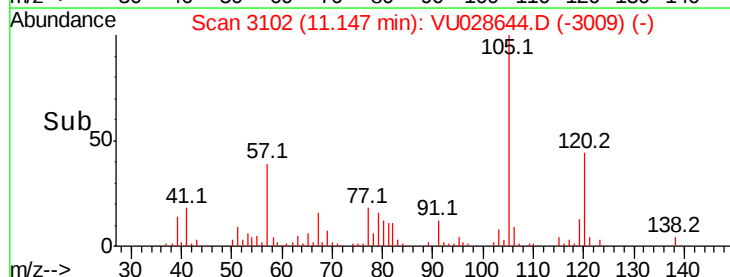
105 100

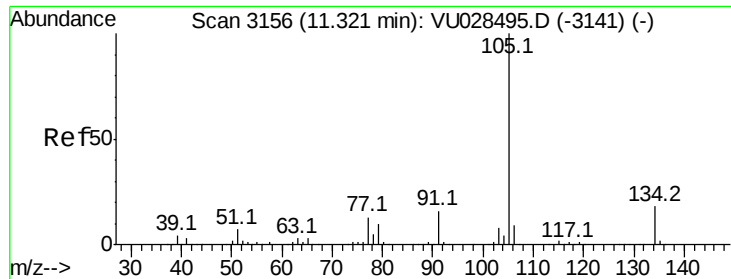
120 43.5 21.8 65.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

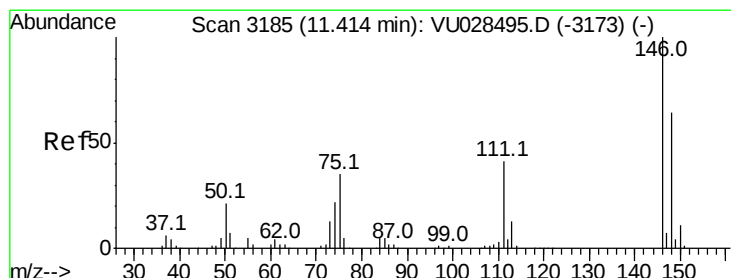
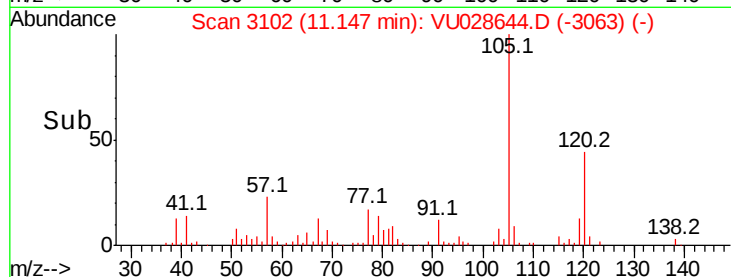
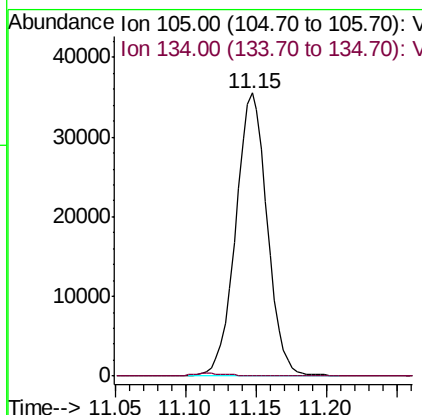
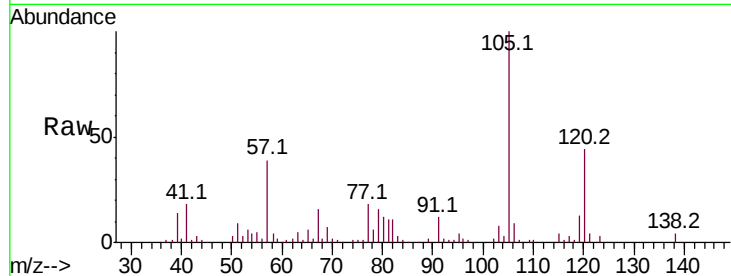




#85
 sec-Butylbenzene
 Concen: 10.084 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.17 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

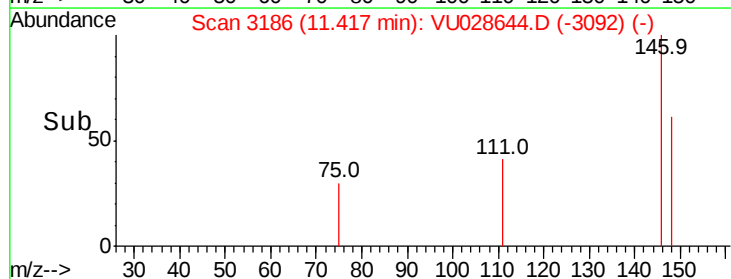
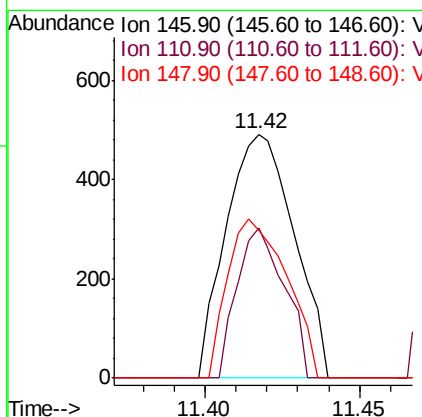
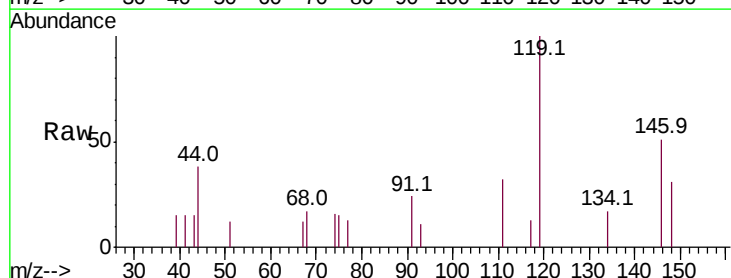
Instrument :
 MSVOA_U
 ClientSampleId :
 GROUND-WATER

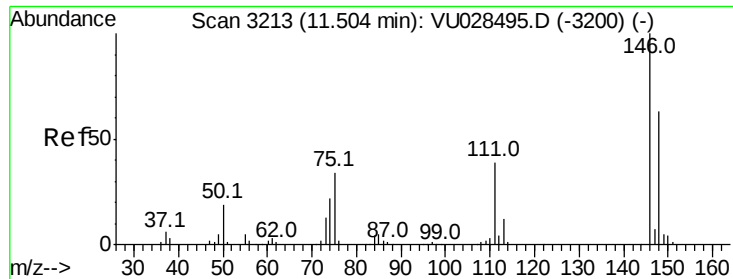
Tot Ion:105 Resp: 55593
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.2 27.6#



#87
 1,3-Dichlorobenzene
 Concen: 0.316 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

Tgt Ion:146 Resp: 750
 Ion Ratio Lower Upper
 146 100
 111 42.9 20.7 62.1
 148 57.3 31.9 95.7





#88

1,4-Dichlorobenzene

Concen: 2.069 ug/l

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

GROUND-WATER

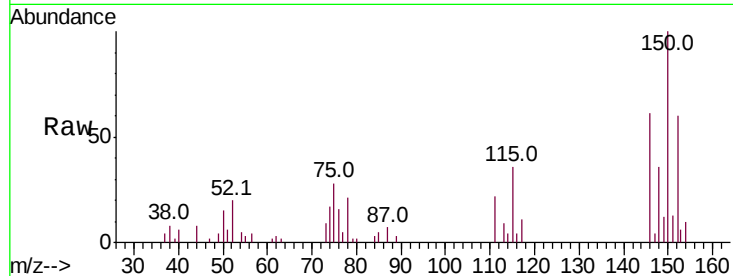
Tot Ion:146 Resp: 5085

Ion Ratio Lower Upper

146 100

111 52.5 20.2 60.5

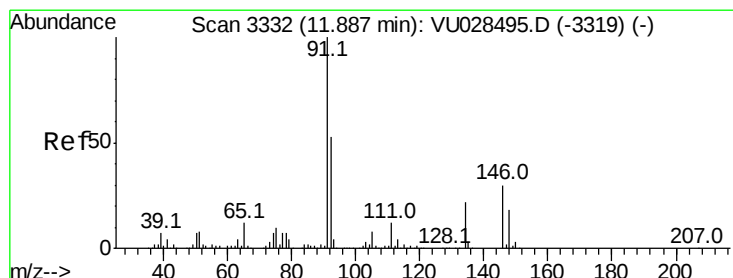
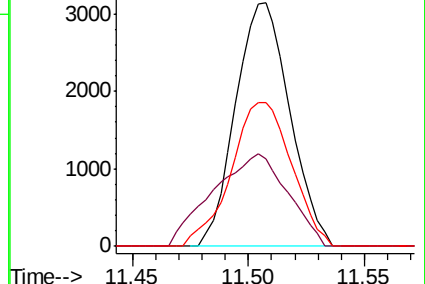
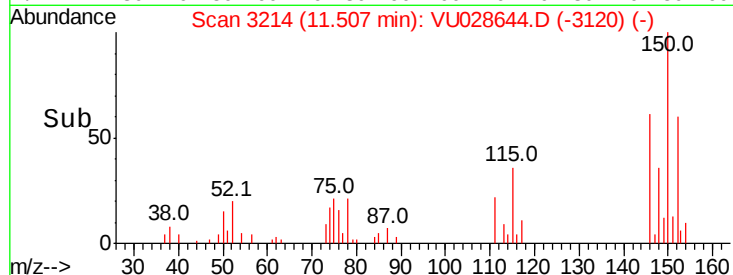
148 65.7 31.6 95.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.441 ug/l

RT: 11.87 min Scan# 3328

Delta R.T. -0.01 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

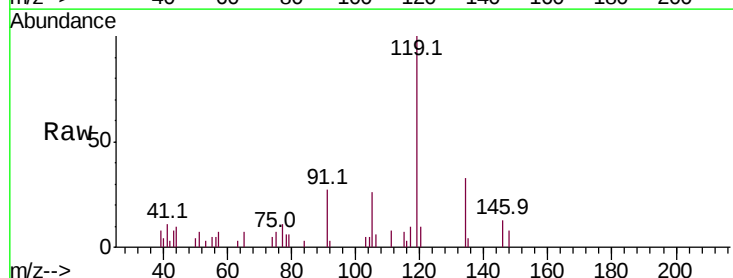
Tgt Ion: 91 Resp: 2090

Ion Ratio Lower Upper

91 100

92 21.5 26.3 78.9#

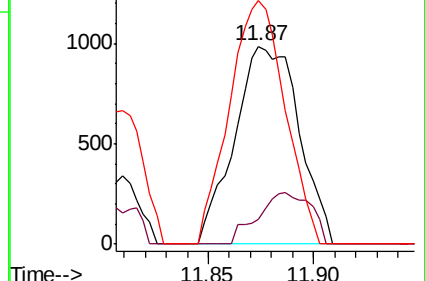
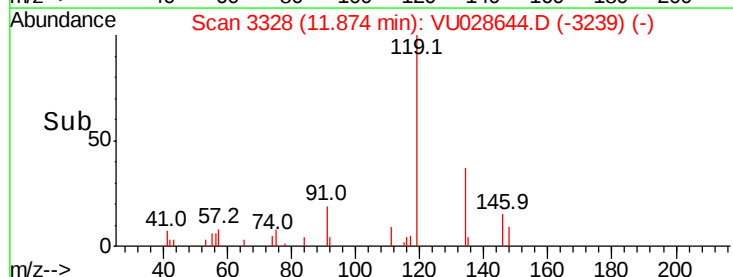
134 106.2 11.3 33.8#

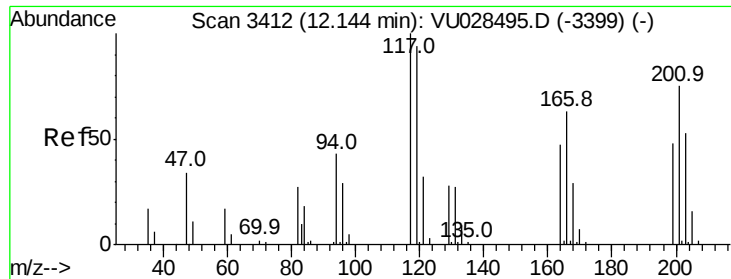


Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.619 ug/l

RT: 12.14 min Scan# 3412

Delta R.T. -0.00 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

Instrument :

MSVOA_U

ClientSampleId :

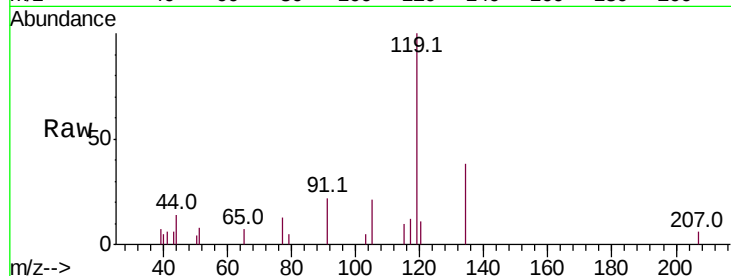
GROUND-WATER

Tot Ion:117 Resp: 438

Ion Ratio Lower Upper

117 100

201 0.0 38.1 114.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

300

250

200

150

100

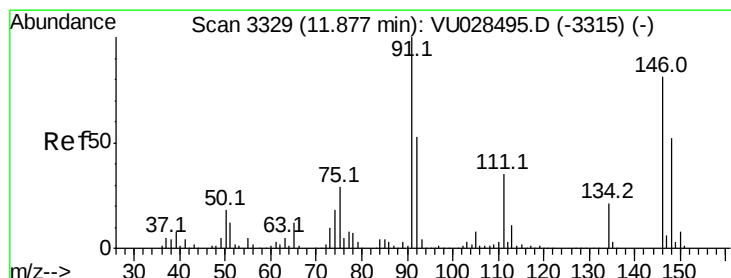
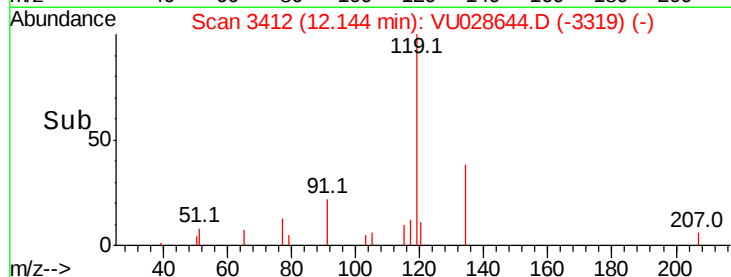
50

0

Time-->

12.12 12.14 12.16

12.14



#91

1,2-Dichlorobenzene

Concen: 0.407 ug/l

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU028644.D

Acq: 12 Dec 2018 11:57

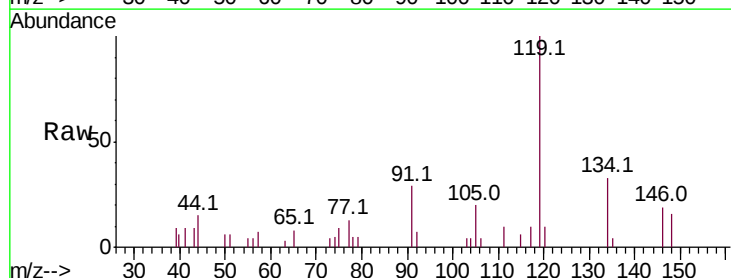
Tgt Ion:146 Resp: 966

Ion Ratio Lower Upper

146 100

111 46.9 21.1 63.4

148 61.7 31.4 94.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

800

600

400

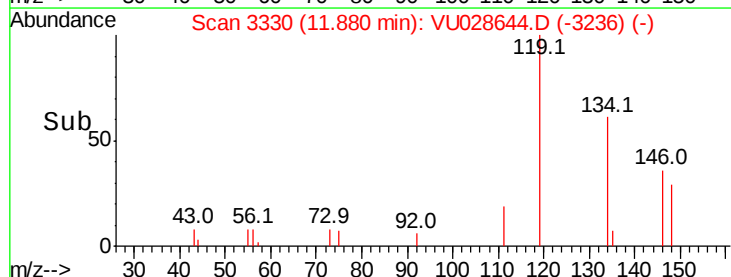
200

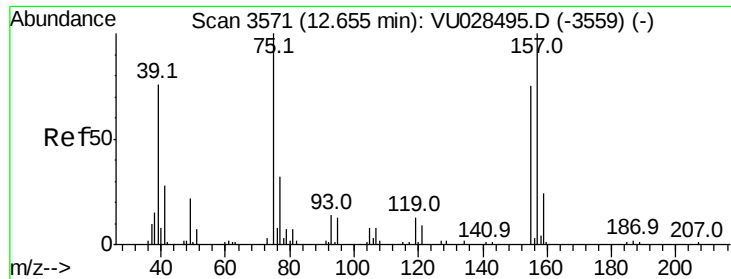
0

Time-->

11.85 11.90

11.88

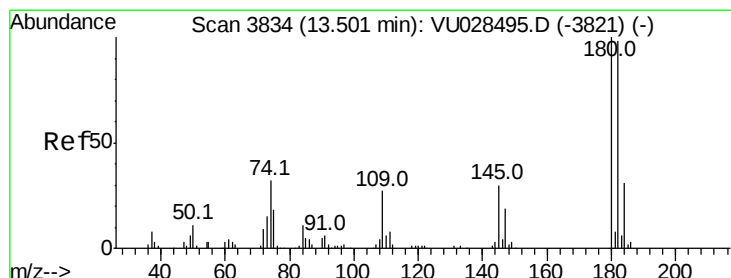
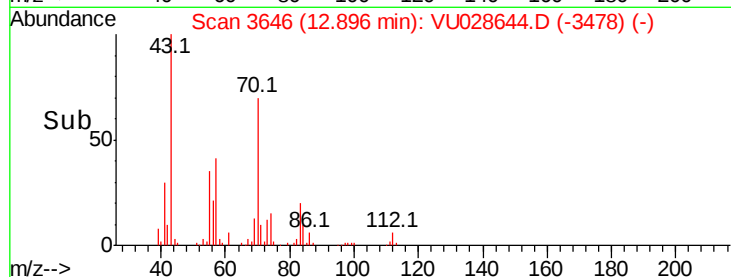
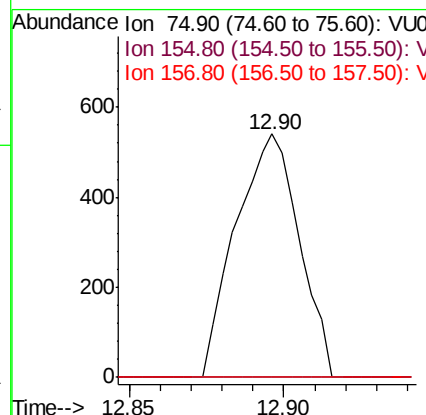
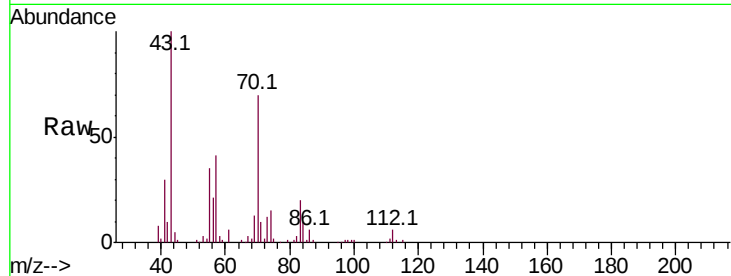




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.724 ug/l
 RT: 12.90 min Scan# 3646
 Delta R.T. 0.24 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

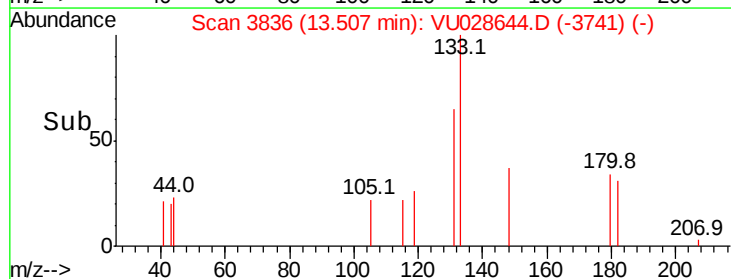
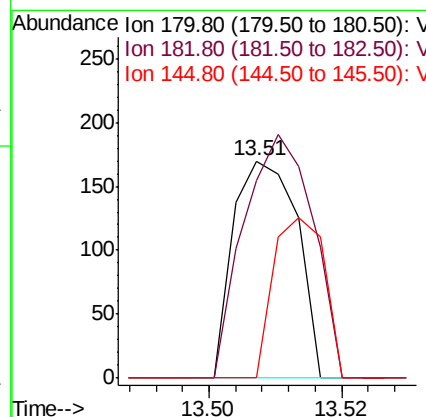
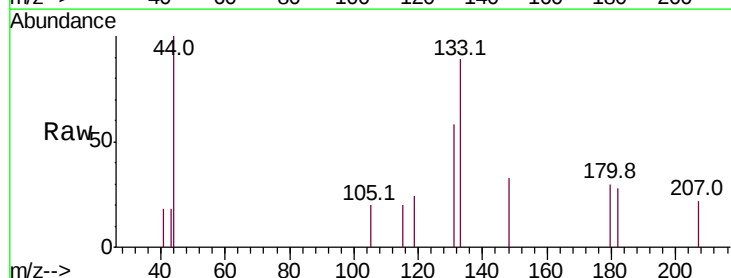
Instrument :
 MSVOA_U
 ClientSampleId :
 GROUND-WATER

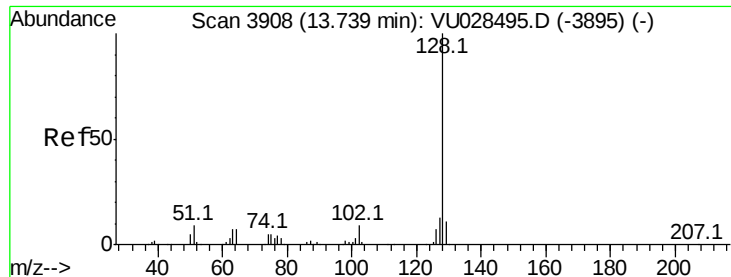
Tot Ion: 75 Resp: 771
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.1 114.5#
 157 0.0 48.7 146.1#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.913 ug/l
 RT: 13.51 min Scan# 3836
 Delta R.T. 0.01 min
 Lab File: VU028644.D
 Acq: 12 Dec 2018 11:57

Tgt Ion:180 Resp: 115
 Ion Ratio Lower Upper
 180 100
 182 120.0 47.9 143.8
 145 58.3 15.0 45.1#





#95
Naphthalene
Concen: 0.655 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028644.D
Acq: 12 Dec 2018 11:57

Instrument :
MSVOA_U
ClientSampleId :
GROUND-WATER

Tot Ion:128 Resp: 3732
Ion Ratio Lower Upper
128 100
127 8.7 10.4 15.6#
129 8.1 8.6 13.0#

