

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092418\
 Data File : VU027096.D
 Acq On : 24 Sep 2018 10:20
 Operator : MD/SY
 Sample : J4969-11
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EB01-20180917

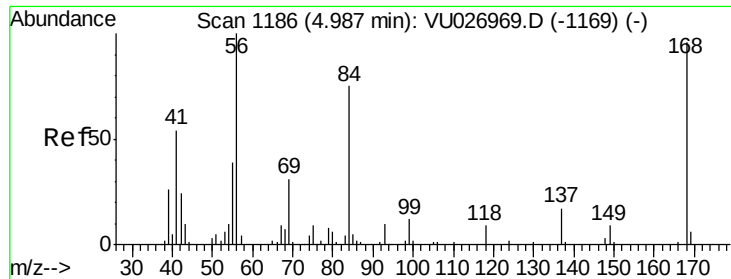
Quant Time: Sep 25 01:33:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	97735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	163812	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	157689	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	71416	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	99936	50.80	ug/l	0.00
Spiked Amount			Recovery	=	101.60%	
35) Dibromofluoromethane	4.88	113	69808	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	7.57	98	265170	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
62) 4-Bromofluorobenzene	10.31	95	83887	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.69	64	297	0.226	ug/l #	43
11) Tert butyl alcohol	2.84	59	2232	4.950	ug/l #	72
14) Allyl chloride	2.44	41	3940	1.439	ug/l #	70
16) Acetone	2.32	43	5676	Below Cal		97
18) Methyl Acetate	2.44	43	9804	3.502	ug/l #	55
20) Methylene Chloride	2.71	84	410	0.233	ug/l #	68
26) 2,2-Dichloropropane	4.19	77	1066	0.424	ug/l #	55
31) Cyclohexane	4.98	56	2456	0.266	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	9764	4.466	ug/l #	49
38) Carbon Tetrachloride	4.98	117	10184	4.895	ug/l #	19
48) Methyl methacrylate	6.83	41	101	1.054	ug/l #	17
51) 4-Methyl-2-Pentanone	7.47	43	640	0.220	ug/l #	67
59) 2-Hexanone	8.39	43	922	0.406	ug/l	67
68) m/p-Xylenes	9.38	106	176	1.563	ug/l #	24
70) Styrene	9.80	104	191	1.850	ug/l #	24
76) 1,2,3-Trichloropropane	10.31	75	47104	21.711	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	47104	69.479	ug/l #	100
86) p-Isopropyltoluene	11.48	119	445	1.014	ug/l #	55
89) n-Butylbenzene	11.89	91	711	2.530	ug/l #	74
93) 1,2,4-Trichlorobenzene	13.51	180	436	0.288	ug/l #	72
94) Hexachlorobutadiene	13.70	225	193	0.241	ug/l #	18
95) Naphthalene	13.76	128	1353	1.910	ug/l #	73
96) 1,2,3-Trichlorobenzene	13.99	180	614	0.379	ug/l #	46

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

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MSVOA_U

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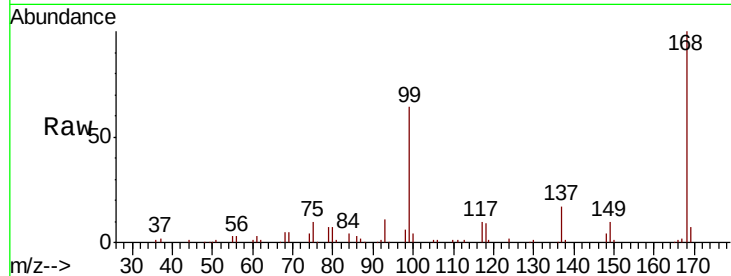
EB01-20180917

Tgt Ion:168 Resp: 97735

Ion Ratio Lower Upper

168 100

99 63.6 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

50000

40000

30000

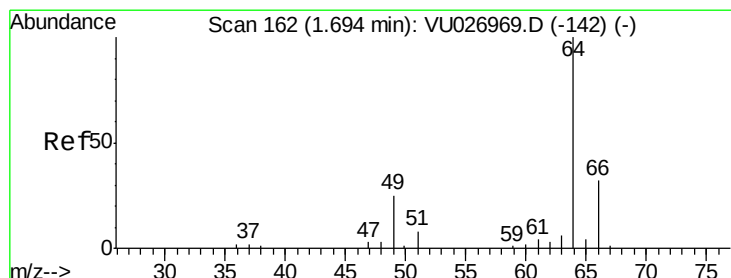
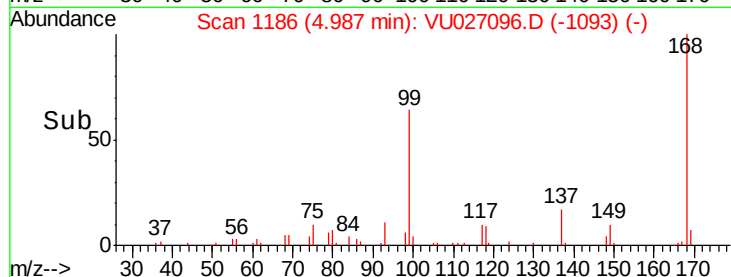
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#6

Chloroethane

Concen: 0.226 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU027096.D

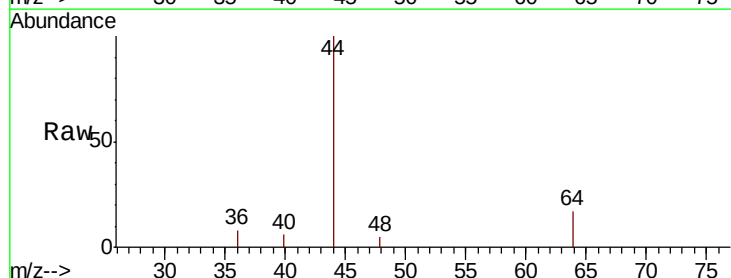
Acq: 24 Sep 2018 10:20

Tgt Ion: 64 Resp: 297

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)

1.69

400

300

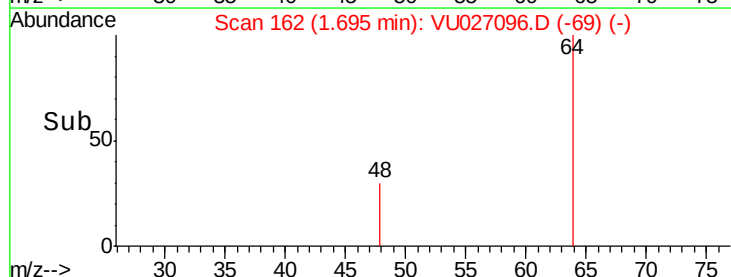
200

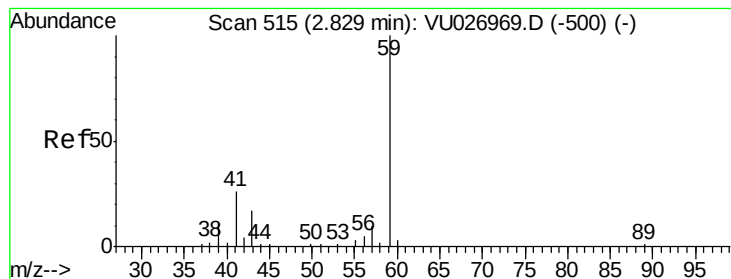
100

0

1.66 1.68 1.70 1.72

Time-->



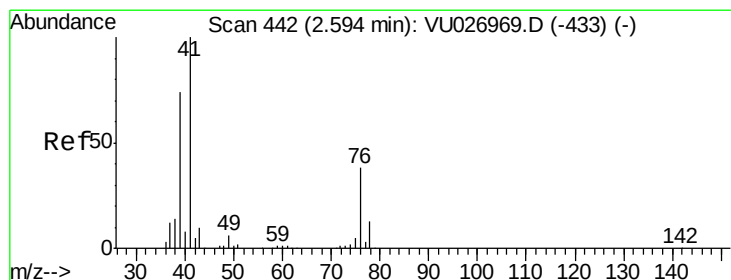
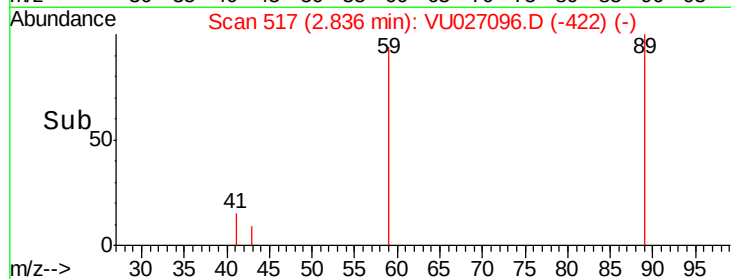
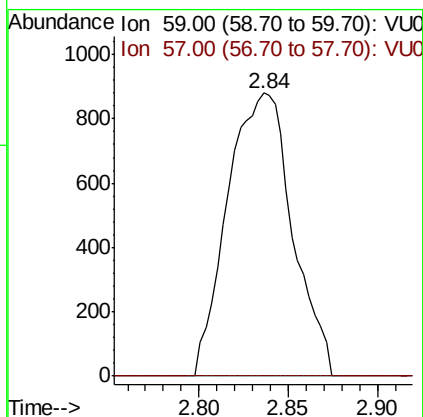
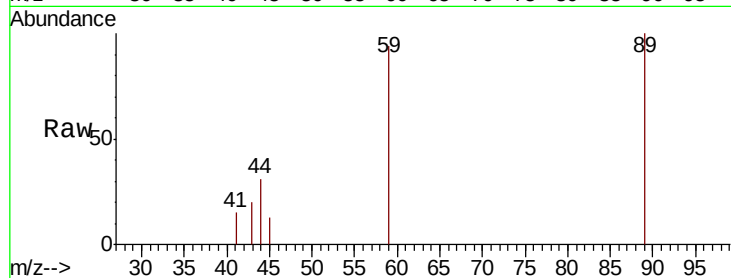


#11

Tert butyl alcohol
 Concen: 4.950 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: VU027096.D
 Acq: 24 Sep 2018 10:20

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 ClientSampleId :
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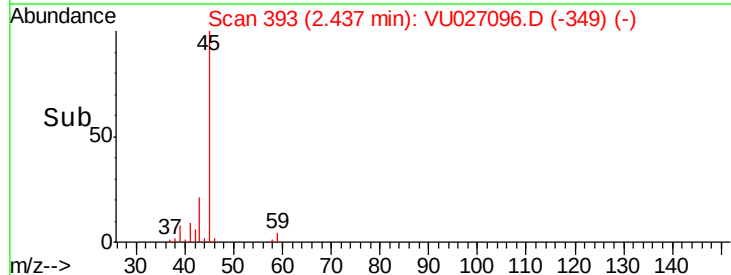
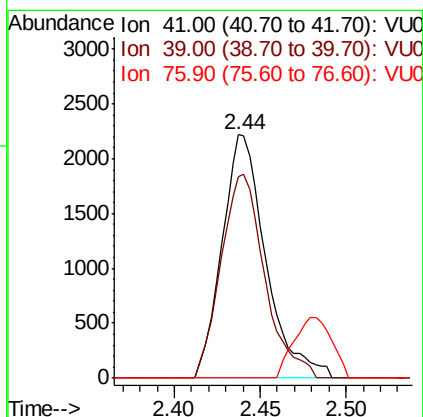
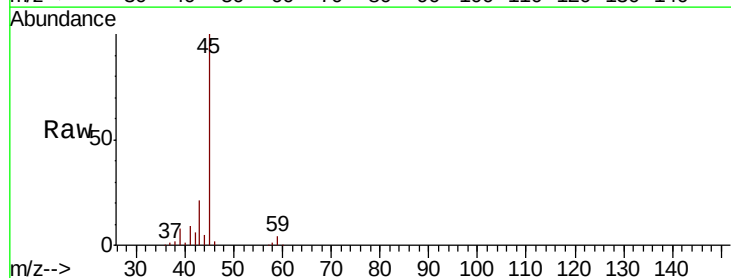
Tgt Ion: 59 Resp: 2232
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

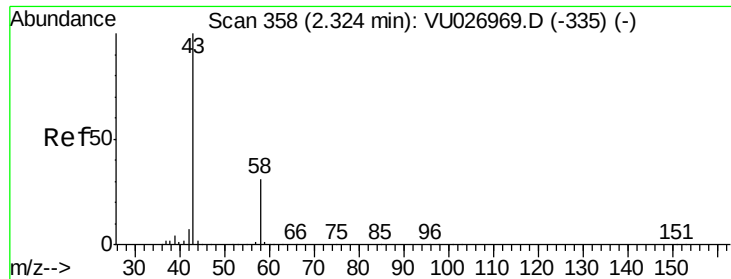


#14

Allyl chloride
 Concen: 1.439 ug/l
 RT: 2.44 min Scan# 393
 Delta R.T. -0.16 min
 Lab File: VU027096.D
 Acq: 24 Sep 2018 10:20

Tgt Ion: 41 Resp: 3940
 Ion Ratio Lower Upper
 41 100
 39 83.5 55.7 83.5
 76 0.0 26.5 39.7#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027096.D

Acq: 24 Sep 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

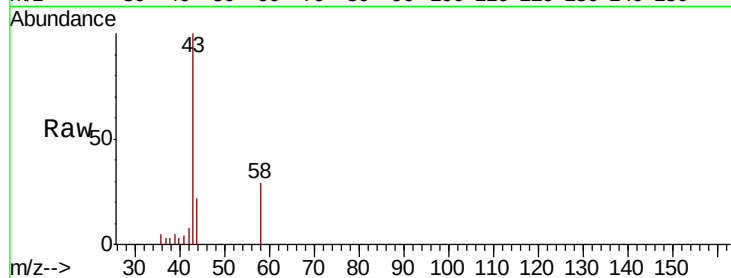
EB01-20180917

Tgt Ion: 43 Resp: 5676

Ion Ratio Lower Upper

43 100

58 29.1 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

4000

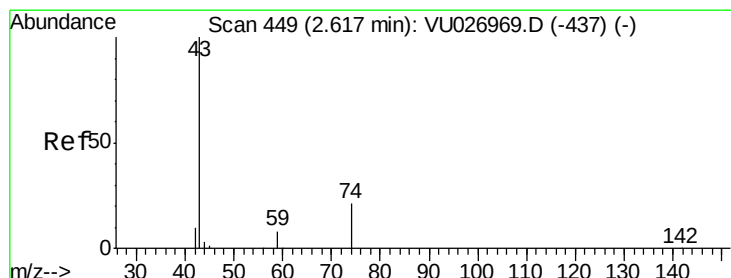
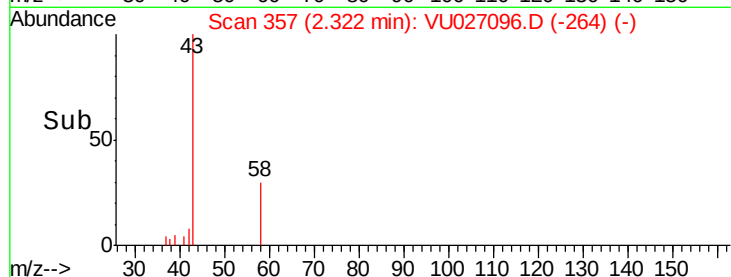
3000

2000

1000

0

Time--> 2.25 2.30 2.35



#18

Methyl Acetate

Concen: 3.502 ug/l

RT: 2.44 min Scan# 394

Delta R.T. -0.18 min

Lab File: VU027096.D

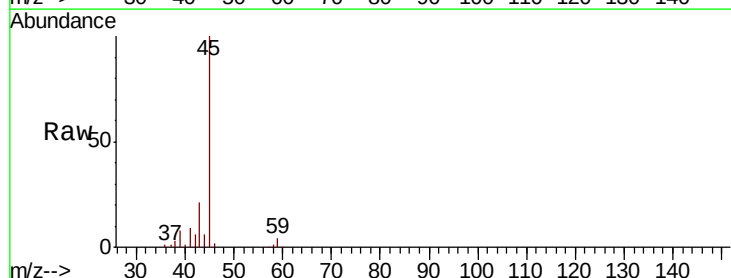
Acq: 24 Sep 2018 10:20

Tgt Ion: 43 Resp: 9804

Ion Ratio Lower Upper

43 100

74 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

6000

5000

4000

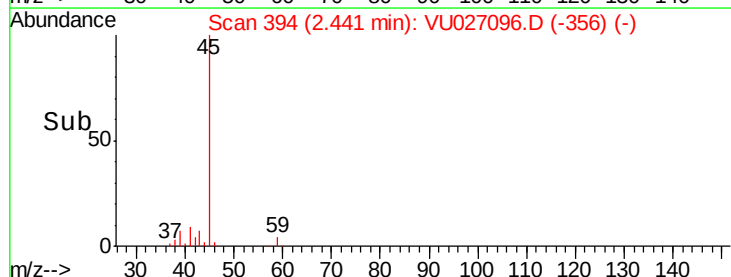
3000

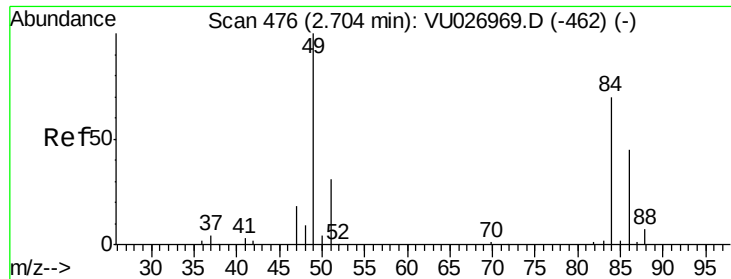
2000

1000

0

Time--> 2.40 2.45 2.50

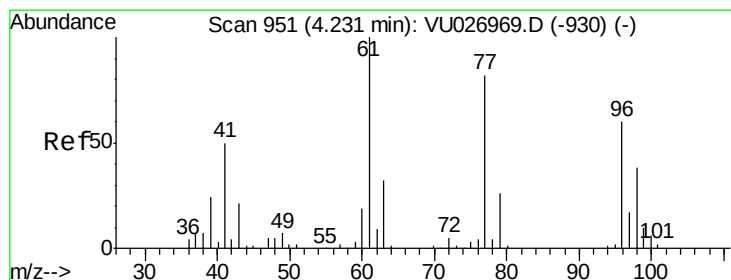
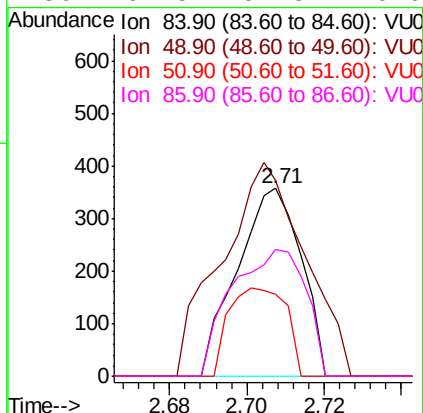
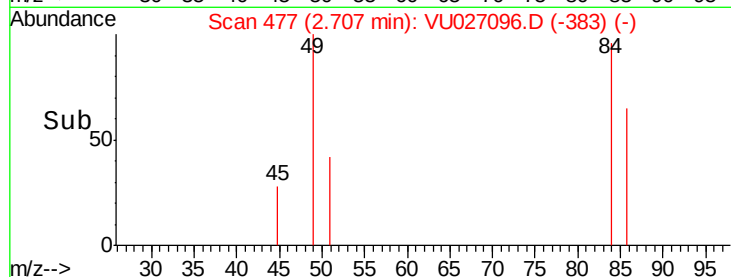
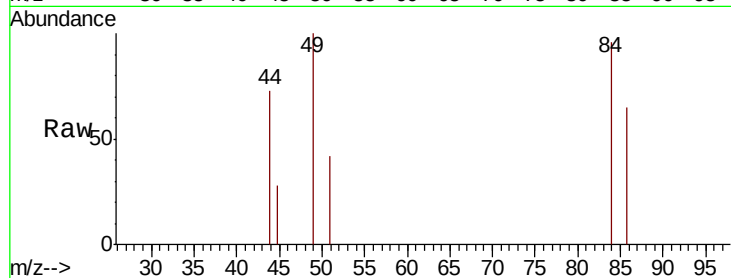




#20
Methylene Chloride
Concen: 0.233 ug/l
RT: 2.71 min Scan# 477
Delta R.T. 0.00 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

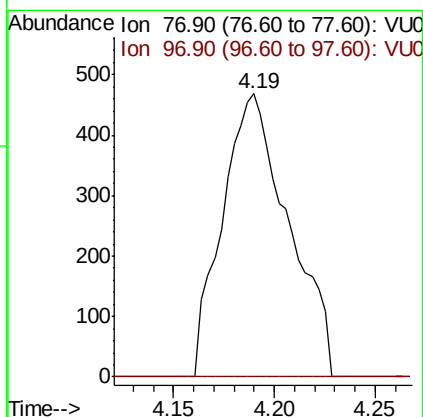
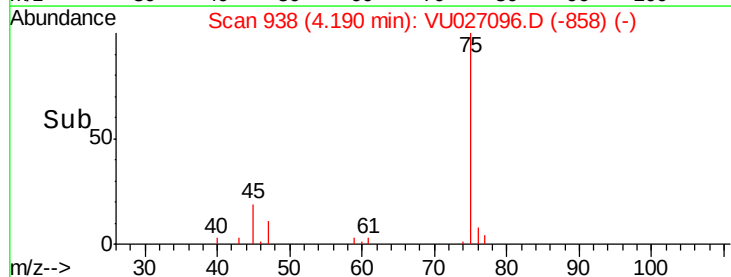
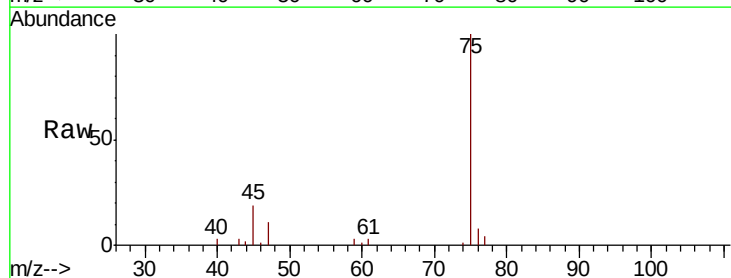
Instrument :
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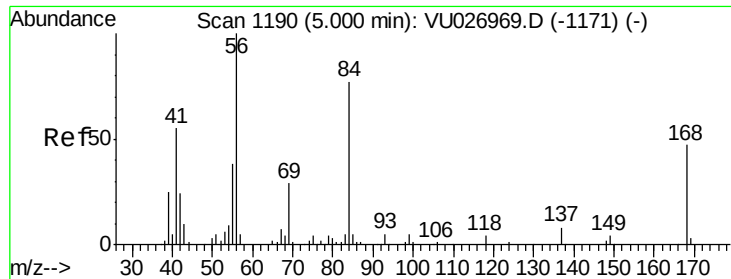
Tgt Ion: 84 Resp: 410
Ion Ratio Lower Upper
84 100
49 76.2 114.9 172.3#
51 43.7 35.8 53.8
86 67.5 51.3 76.9



#26
2,2-Dichloropropane
Concen: 0.424 ug/l
RT: 4.19 min Scan# 938
Delta R.T. -0.04 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

Tgt Ion: 77 Resp: 1066
Ion Ratio Lower Upper
77 100
97 0.0 10.5 31.5#

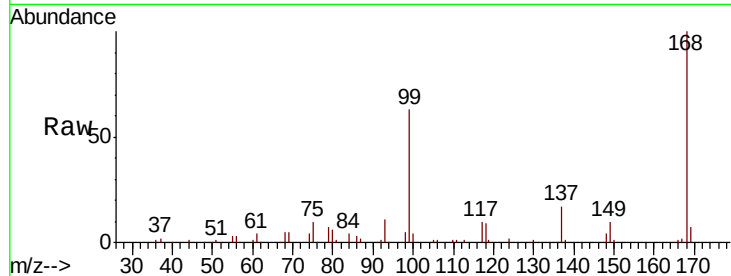




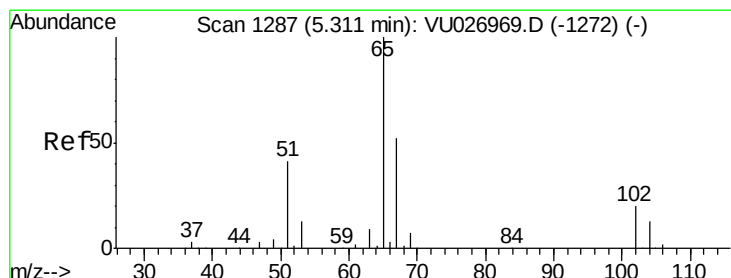
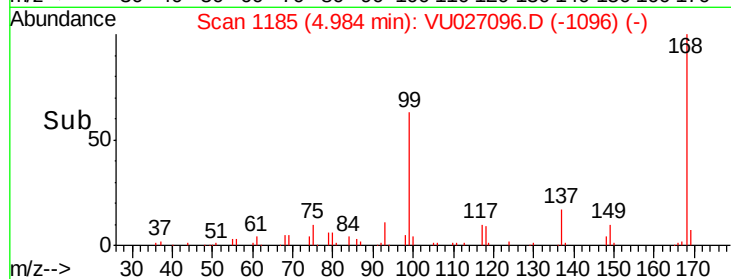
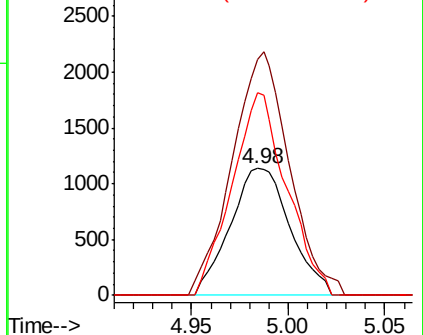
#31
Cyclohexane
Concen: 0.266 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.02 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

Instrument :
MSVOA_U
ClientSampleId :
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Tgt Ion: 56 Resp: 2456
Ion Ratio Lower Upper
56 100
69 186.4 23.0 34.4#
84 159.4 61.4 92.2#

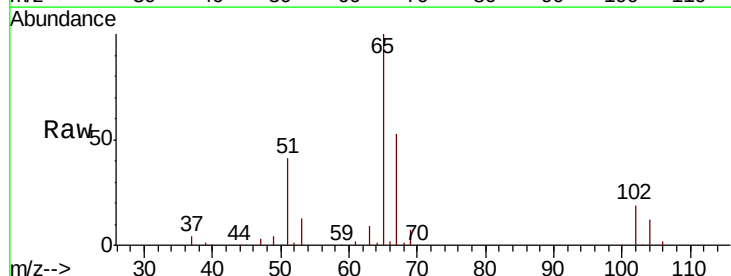


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

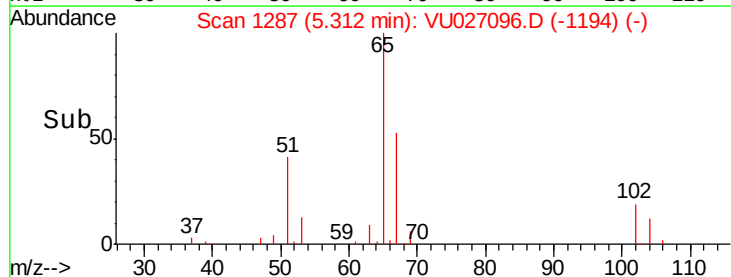
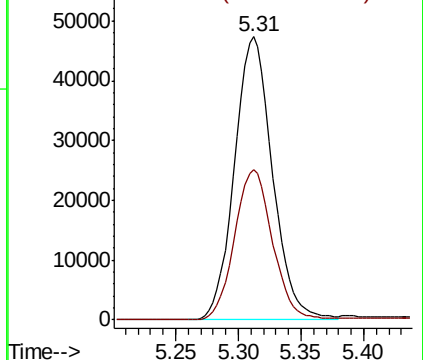


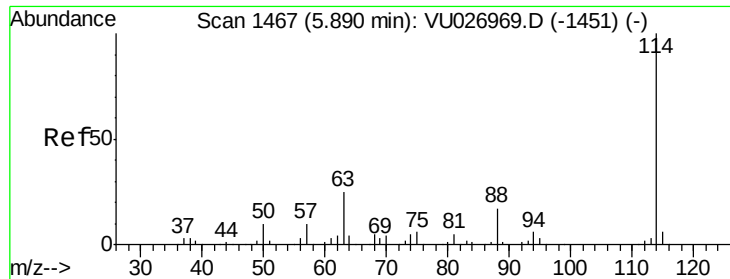
#33
1,2-Dichloroethane-d4
Concen: 50.804 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

Tgt Ion: 65 Resp: 99936
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

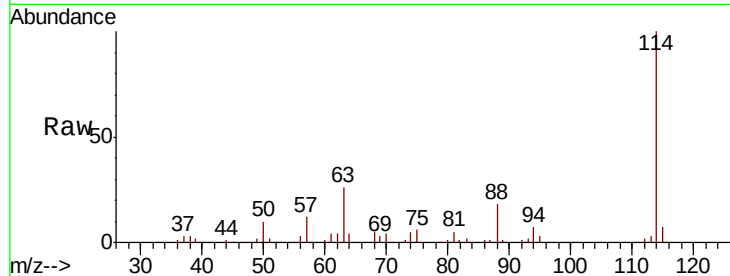




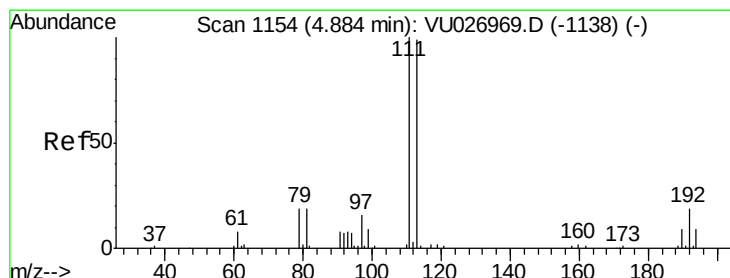
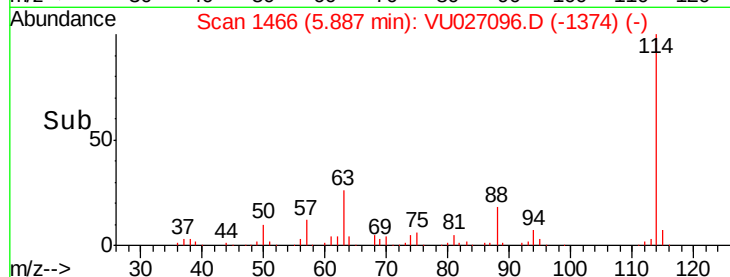
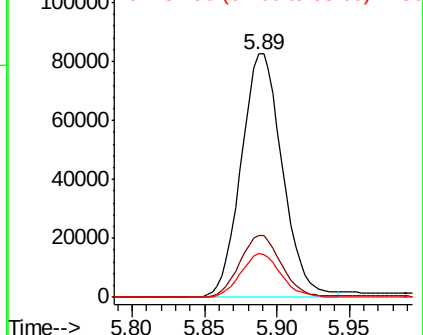
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027096.D
 Acq: 24 Sep 2018 10:20

Instrument :
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Tgt Ion:114 Resp: 163812
 Ion Ratio Lower Upper
 114 100
 63 25.6 0.0 49.2
 88 18.0 0.0 33.8

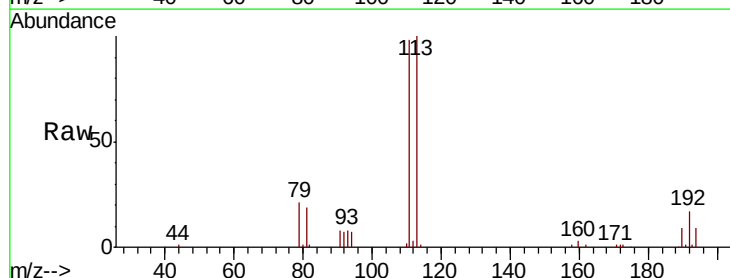


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

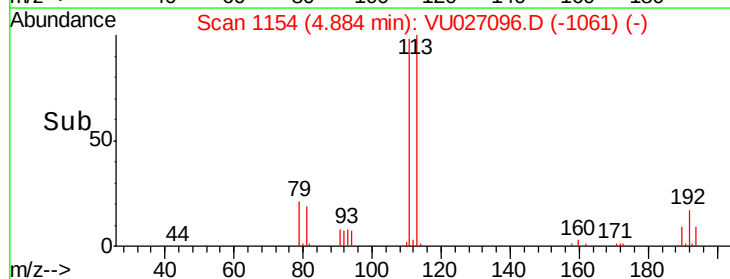
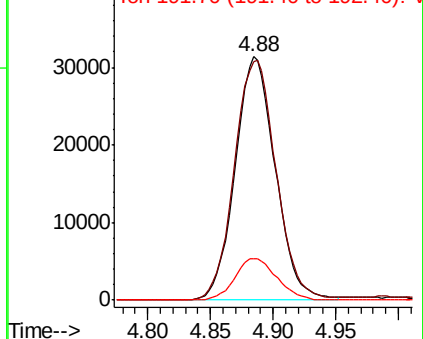


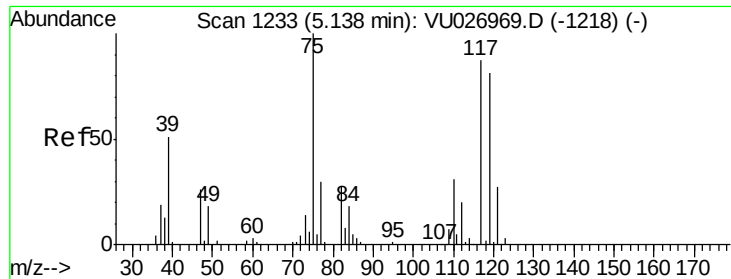
#35
 Dibromofluoromethane
 Concen: 49.163 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027096.D
 Acq: 24 Sep 2018 10:20

Tgt Ion:113 Resp: 69808
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.2 123.4
 192 17.7 15.2 22.8



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

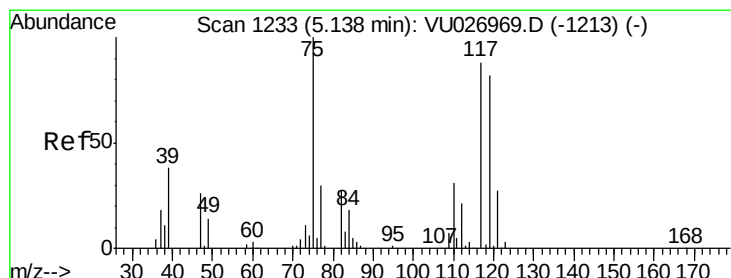
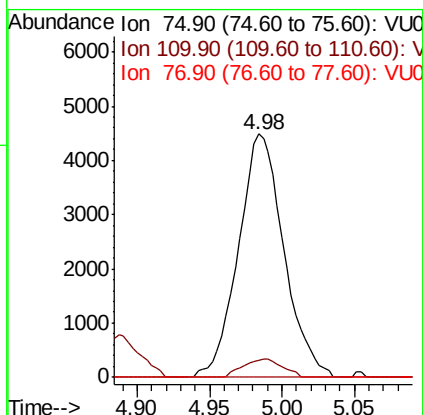
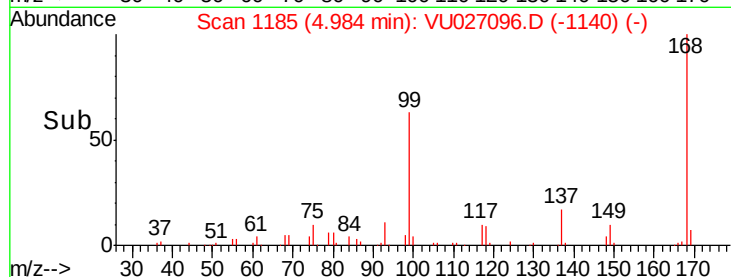
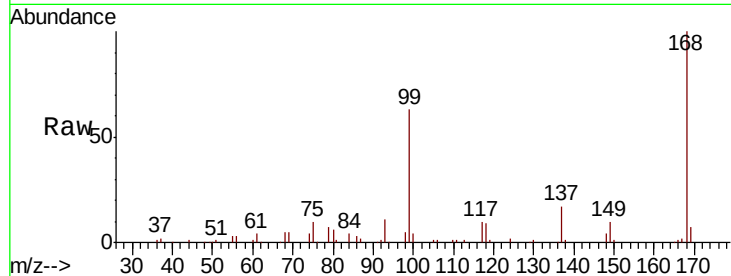




#36
 1,1-Dichloropropene
 Concen: 4.466 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027096.D
 Acq: 24 Sep 2018 10:20

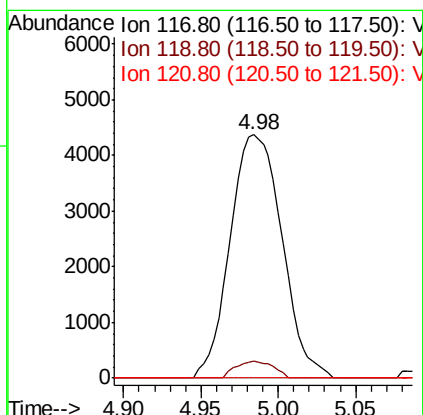
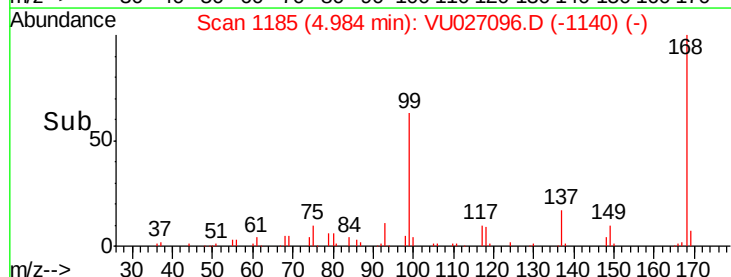
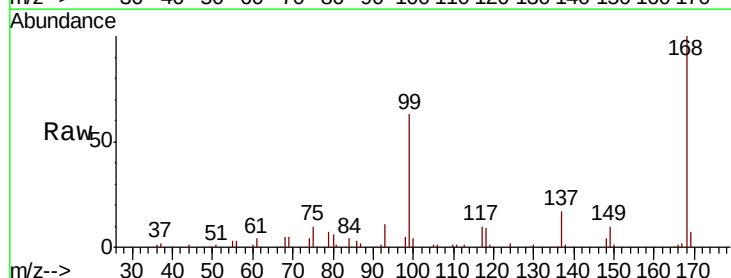
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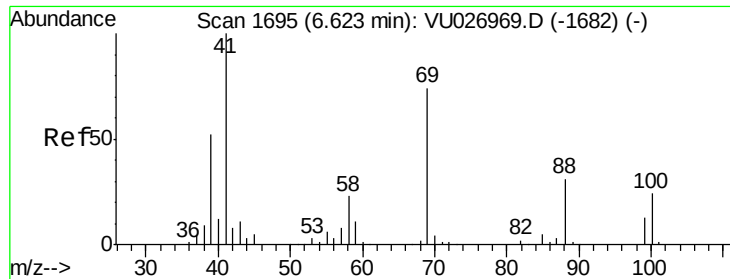
Tgt Ion: 75 Resp: 9764
 Ion Ratio Lower Upper
 75 100
 110 6.6 16.1 48.2#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 4.895 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027096.D
 Acq: 24 Sep 2018 10:20

Tgt Ion: 117 Resp: 10184
 Ion Ratio Lower Upper
 117 100
 119 7.1 74.4 111.6#
 121 0.0 24.2 36.4#





#48

Methyl methacrylate

Concen: 1.054 ug/l

RT: 6.83 min Scan# 1759

Delta R.T. 0.21 min

Lab File: VU027096.D

Acq: 24 Sep 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

EB01-20180917

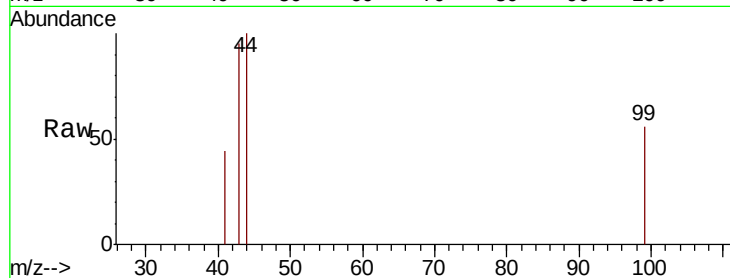
Tgt Ion: 41 Resp: 101

Ion Ratio Lower Upper

41 100

69 0.0 60.6 90.8#

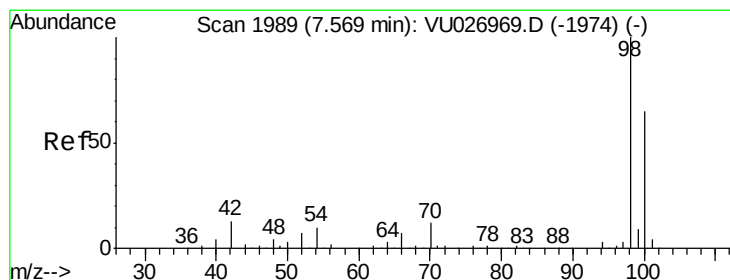
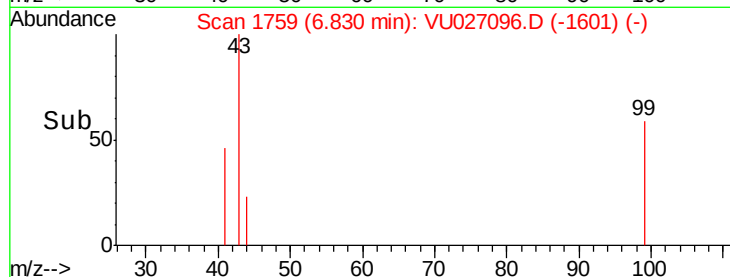
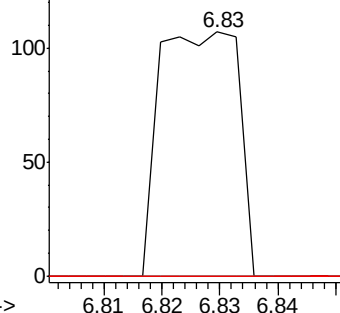
39 0.0 42.8 64.2#



Abundance Ion 41.00 (40.70 to 41.70): VU026969.D (-1682) (-)

Ion 69.00 (68.70 to 69.70): VU026969.D (-1682) (-)

Ion 39.00 (38.70 to 39.70): VU026969.D (-1682) (-)



#50

Toluene-d8

Concen: 49.002 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027096.D

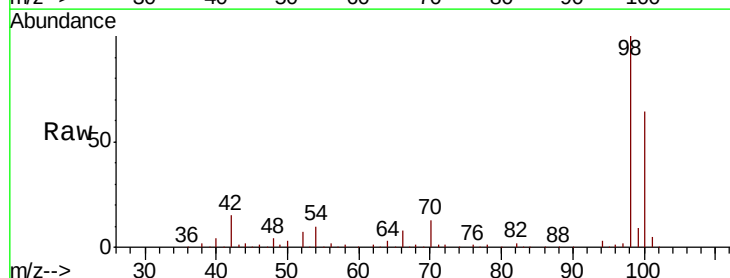
Acq: 24 Sep 2018 10:20

Tgt Ion: 98 Resp: 265170

Ion Ratio Lower Upper

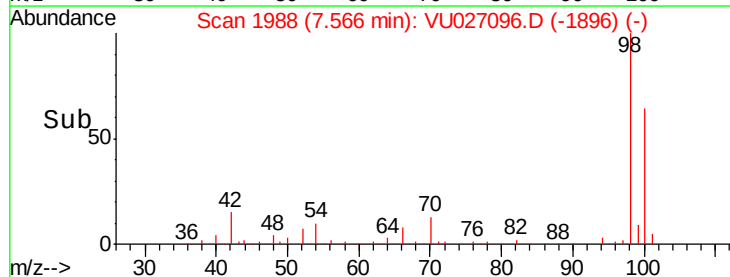
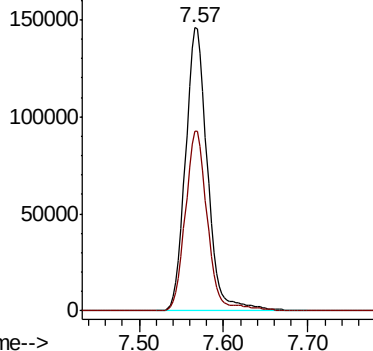
98 100

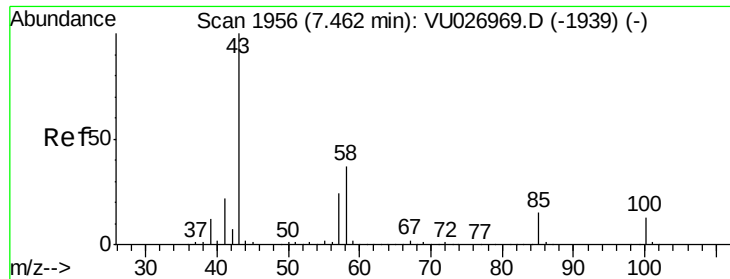
100 63.9 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.220 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.00 min

Lab File: VU027096.D

Acq: 24 Sep 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

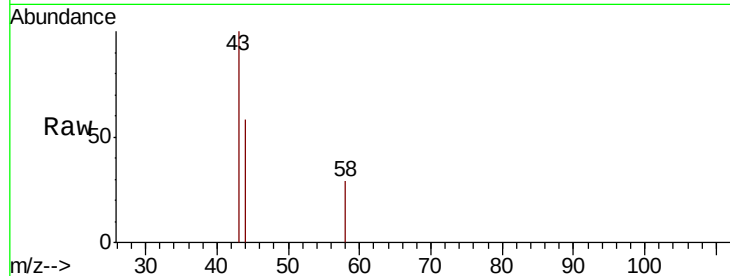
EB01-20180917

Tgt Ion: 43 Resp: 640

Ion Ratio Lower Upper

43 100

58 17.3 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-1939) (-)

7.47

400

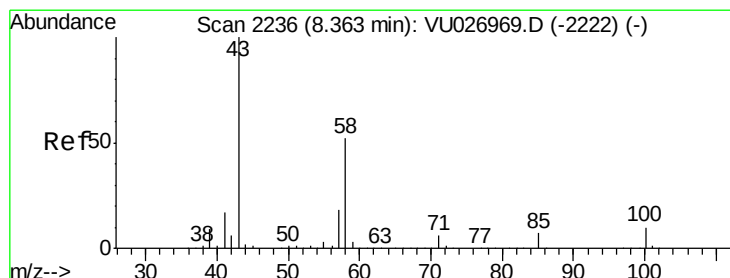
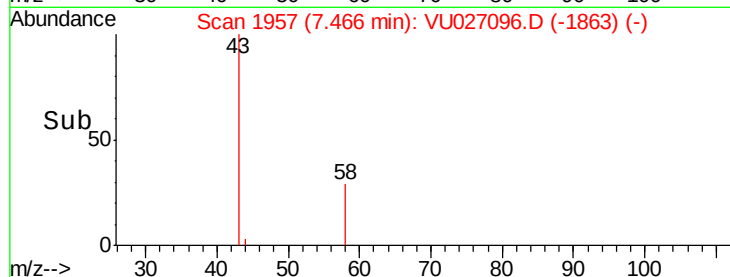
300

200

100

0

Time-->



#59

2-Hexanone

Concen: 0.406 ug/l

RT: 8.39 min Scan# 2243

Delta R.T. 0.02 min

Lab File: VU027096.D

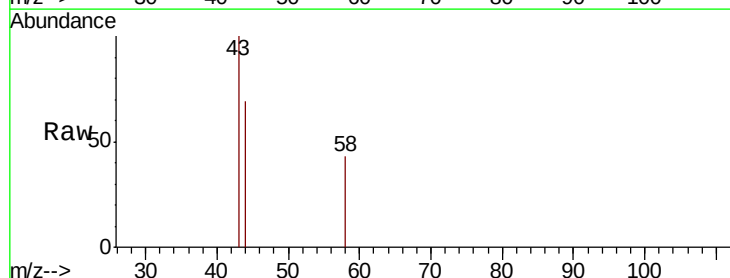
Acq: 24 Sep 2018 10:20

Tgt Ion: 43 Resp: 922

Ion Ratio Lower Upper

43 100

58 28.7 26.1 78.2



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-2222) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-2222) (-)

8.39

500

400

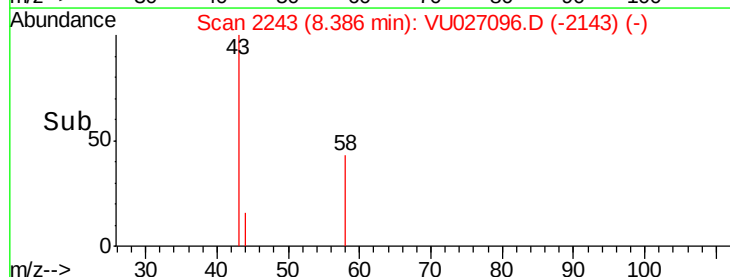
300

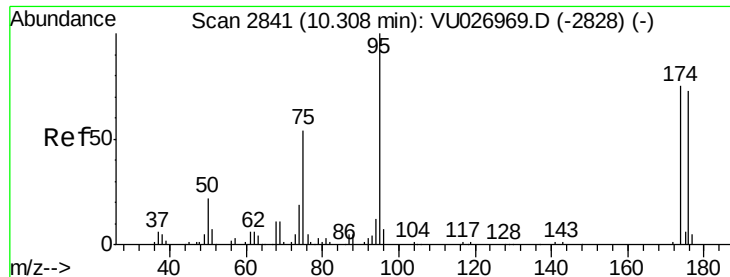
200

100

0

Time-->

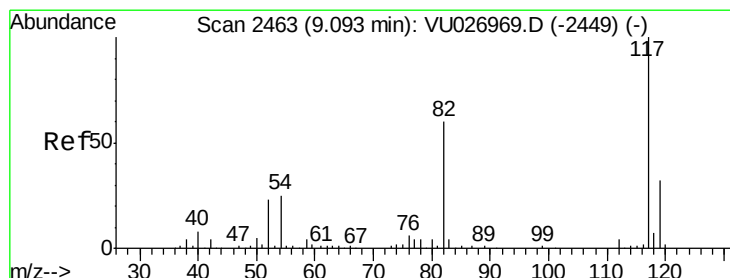
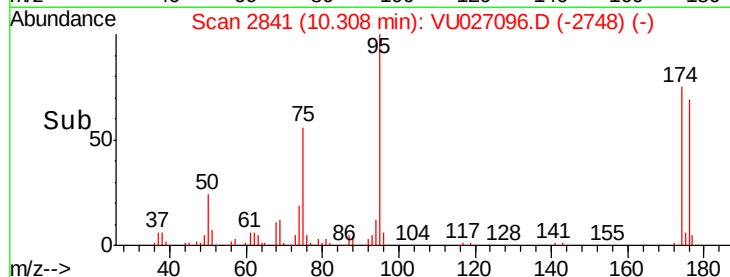
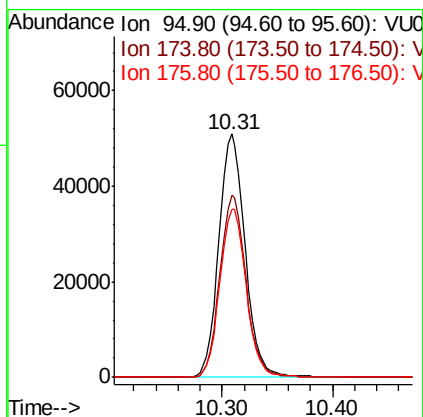
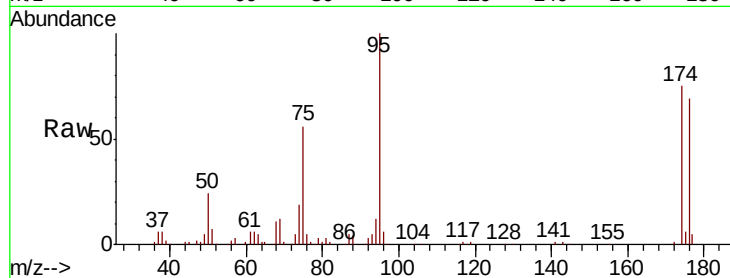




#62
 4-Bromofluorobenzene
 Concen: 45.178 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027096.D
 Acq: 24 Sep 2018 10:20

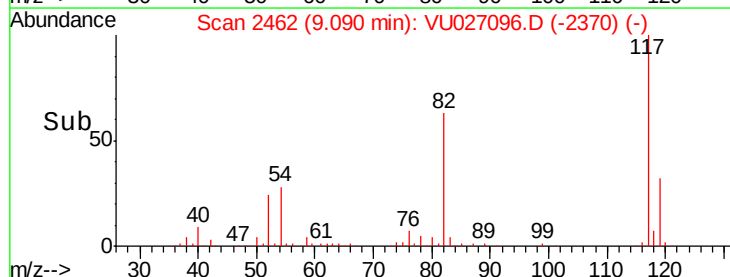
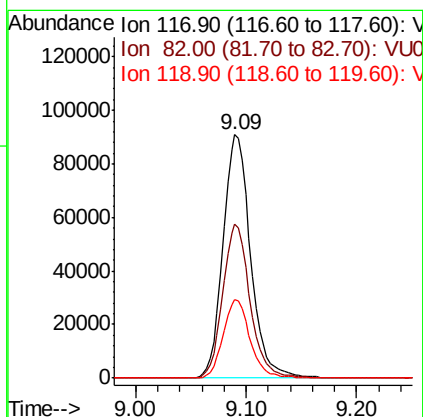
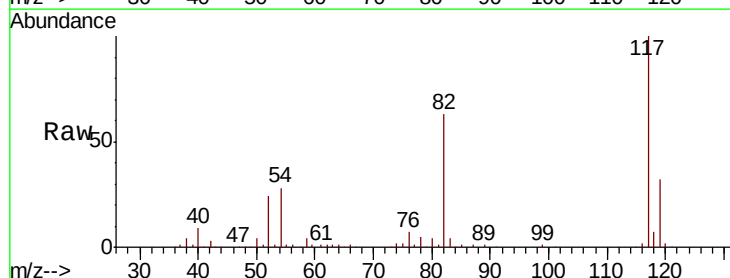
Instrument :
 MSVOA_U
 ClientSampleId :
 EB01-20180917

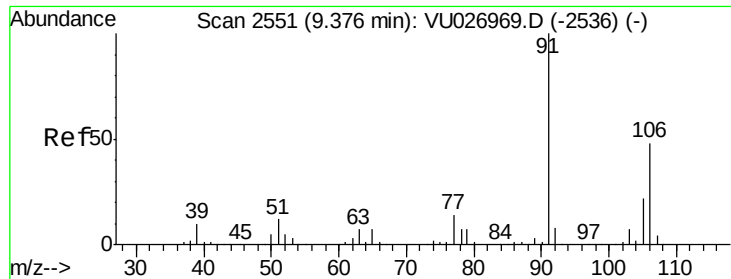
Tgt Ion: 95 Resp: 83887
 Ion Ratio Lower Upper
 95 100
 174 74.7 0.0 150.2
 176 69.7 0.0 145.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027096.D
 Acq: 24 Sep 2018 10:20

Tgt Ion: 117 Resp: 157689
 Ion Ratio Lower Upper
 117 100
 82 63.4 48.0 72.0
 119 32.4 25.8 38.8

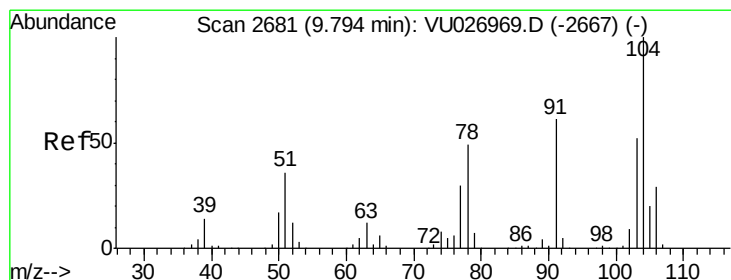
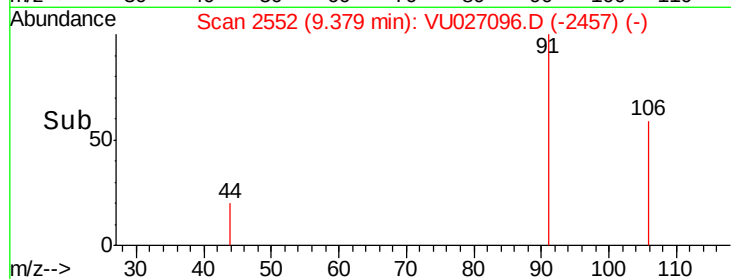
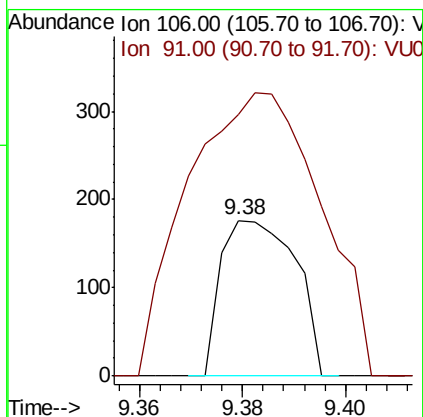
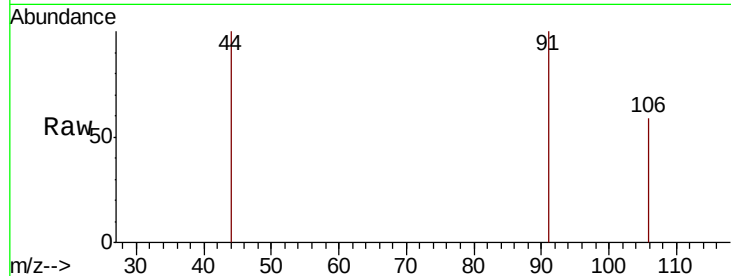




#68
m/p-Xylenes
Concen: 1.563 ug/l
RT: 9.38 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

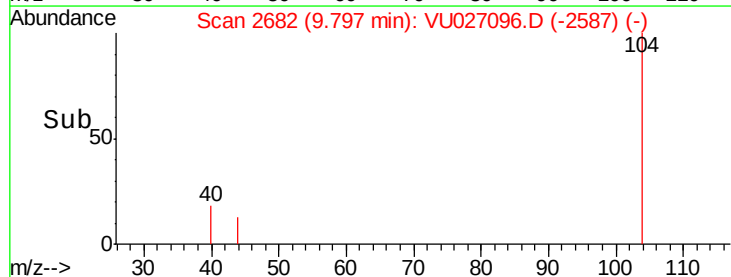
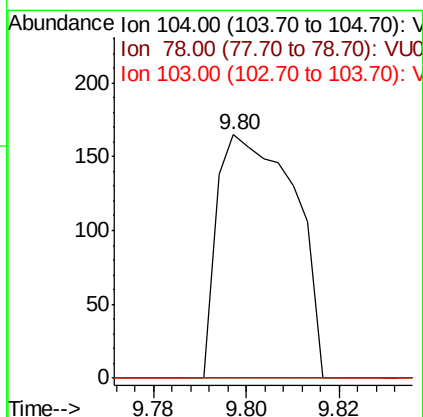
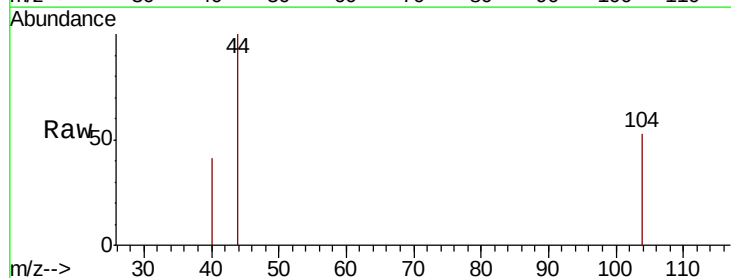
Instrument :
MSVOA_U
ClientSampleId :
EB01-20180917

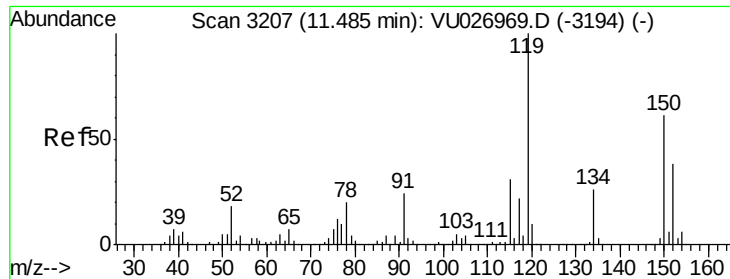
Tgt Ion:106 Resp: 176
Ion Ratio Lower Upper
106 100
91 325.6 166.5 249.7#



#70
Styrene
Concen: 1.850 ug/l
RT: 9.80 min Scan# 2682
Delta R.T. 0.00 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

Tgt Ion:104 Resp: 191
Ion Ratio Lower Upper
104 100
78 0.0 43.0 64.4#
103 0.0 44.1 66.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027096.D

Acq: 24 Sep 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

EB01-20180917

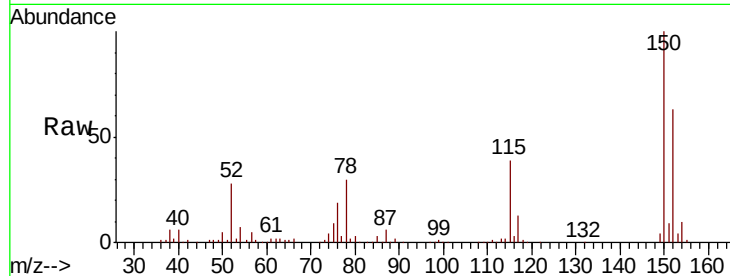
Tgt Ion:152 Resp: 71416

Ion Ratio Lower Upper

152 100

115 60.9 44.9 134.5

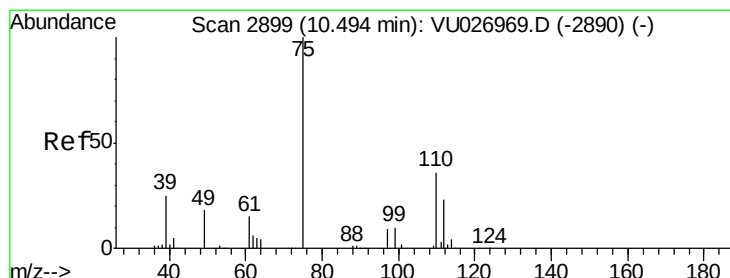
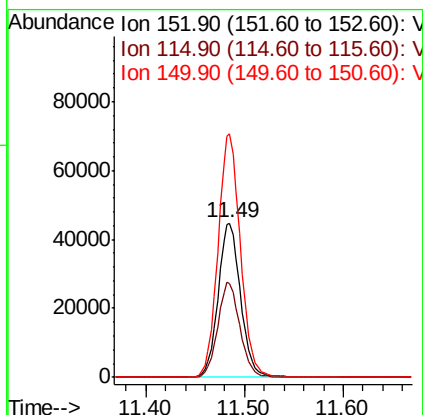
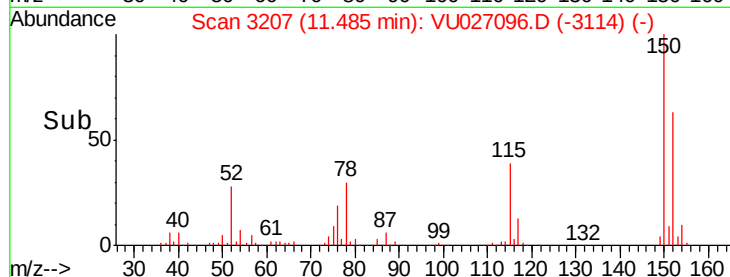
150 157.7 0.0 355.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.711 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027096.D

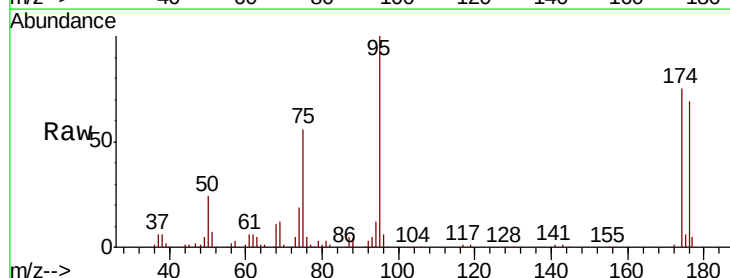
Acq: 24 Sep 2018 10:20

Tgt Ion: 75 Resp: 47104

Ion Ratio Lower Upper

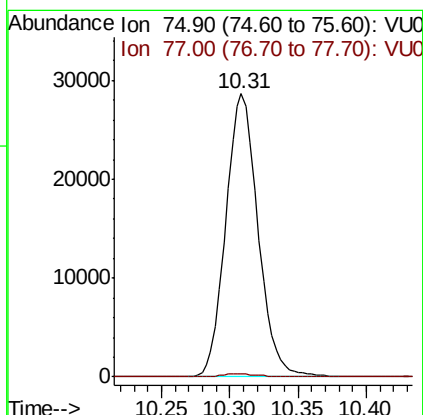
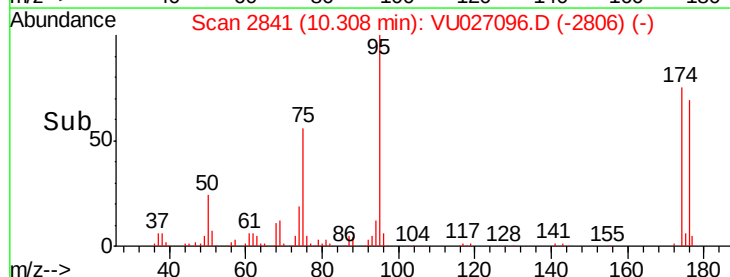
75 100

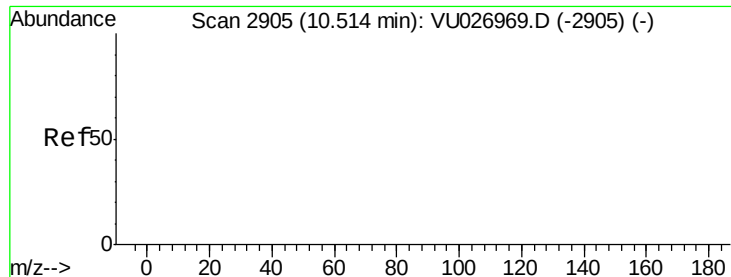
77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

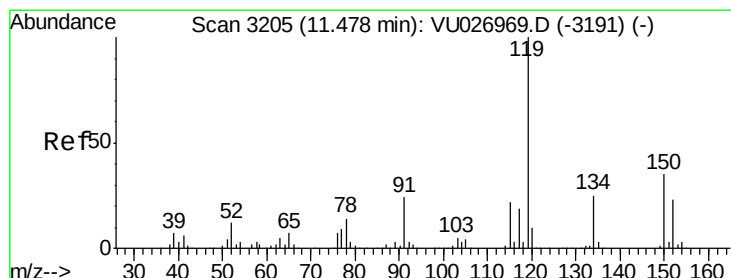
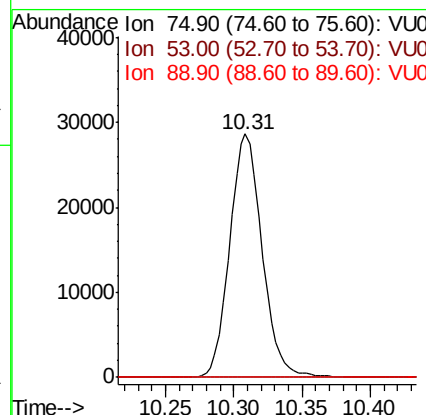
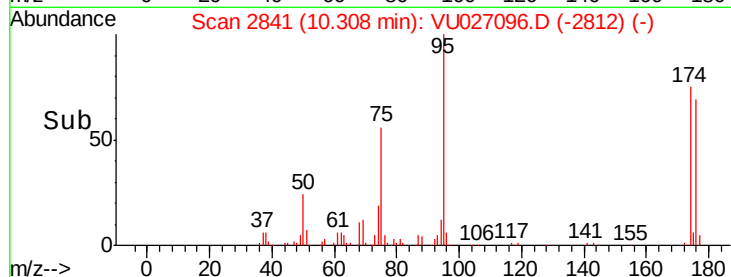
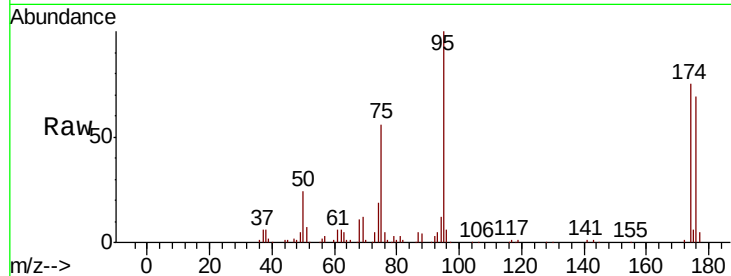




#81
trans-1,4-Dichloro-2-butene
Concen: 69.479 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.21 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

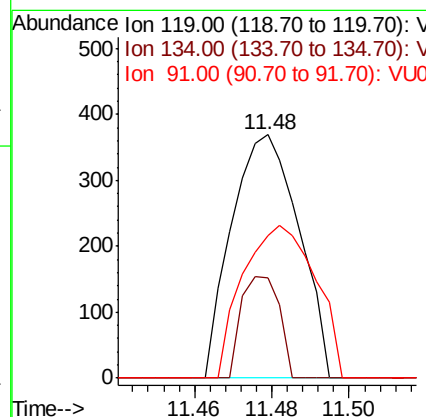
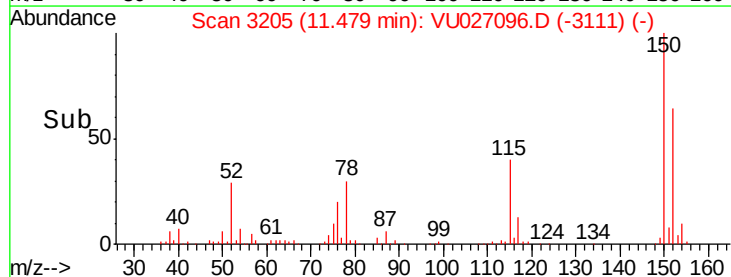
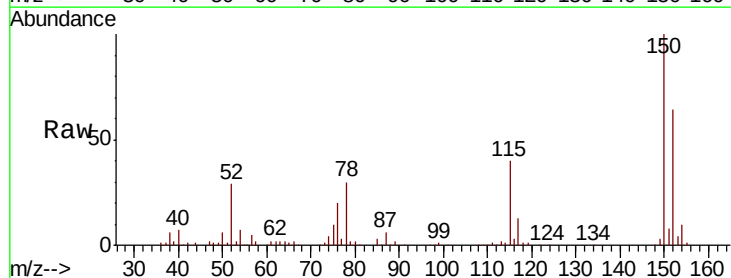
Instrument :
MSVOA_U
ClientSampleId :
EB01-20180917

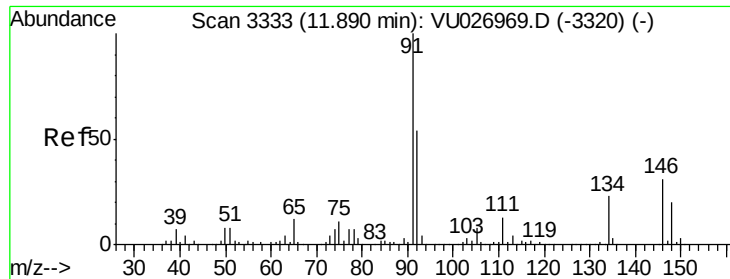
Tgt Ion: 75 Resp: 47104
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#86
p-Isopropyltoluene
Concen: 1.014 ug/l
RT: 11.48 min Scan# 3205
Delta R.T. 0.00 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

Tgt Ion: 119 Resp: 445
Ion Ratio Lower Upper
119 100
134 23.6 12.8 38.3
91 67.9 12.3 36.8#

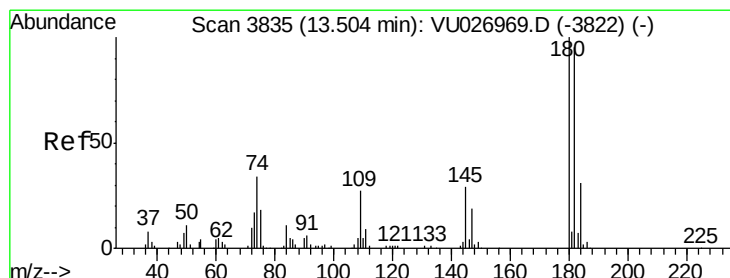
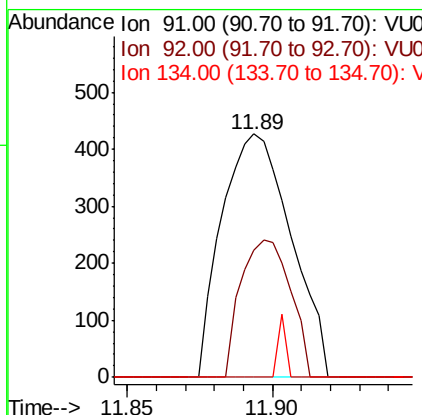
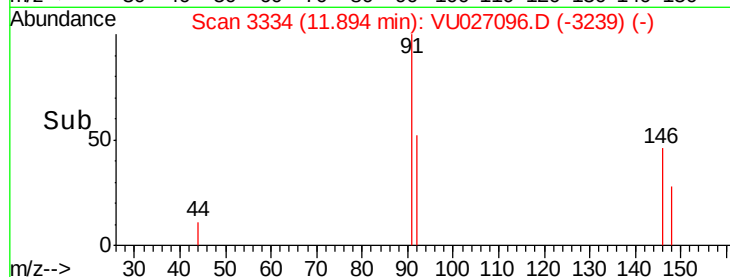
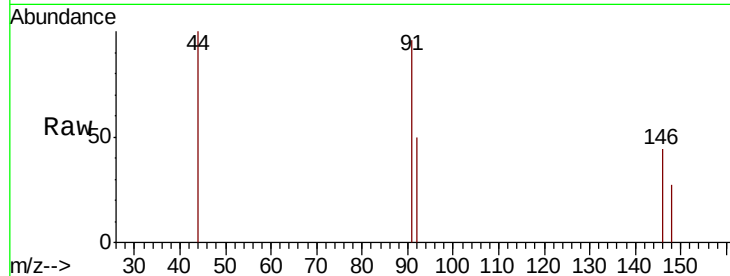




#89
n-Butylbenzene
Concen: 2.530 ug/l
RT: 11.89 min Scan# 3334
Delta R.T. 0.00 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

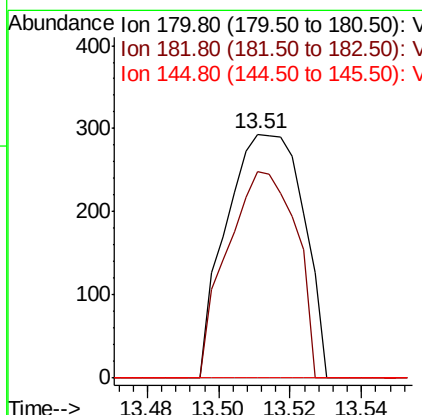
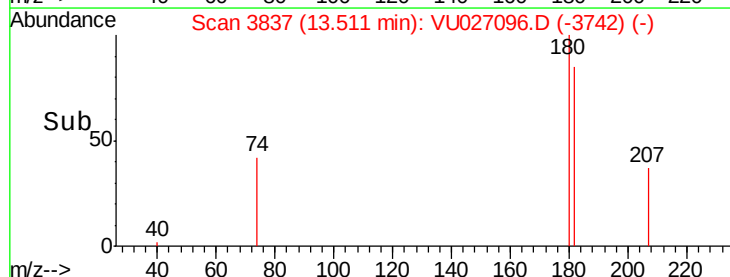
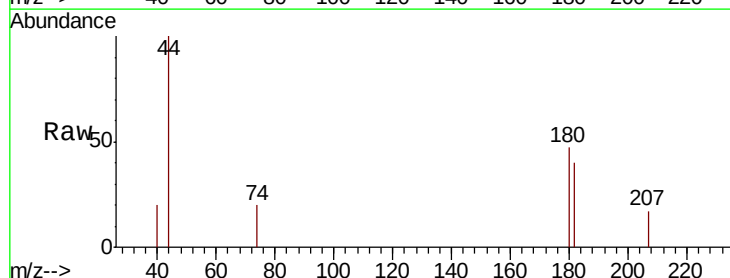
Instrument :
MSVOA_U
ClientSampleId :
EB01-20180917

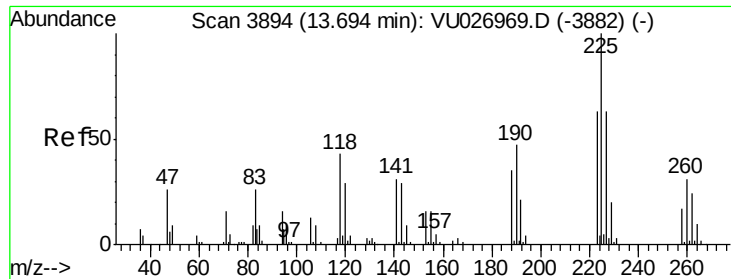
Tgt Ion: 91 Resp: 711
Ion Ratio Lower Upper
91 100
92 40.2 27.1 81.2
134 3.0 11.7 35.0#



#93
1,2,4-Trichlorobenzene
Concen: 0.288 ug/l
RT: 13.51 min Scan# 3837
Delta R.T. 0.01 min
Lab File: VU027096.D
Acq: 24 Sep 2018 10:20

Tgt Ion: 180 Resp: 436
Ion Ratio Lower Upper
180 100
182 75.5 47.4 142.2
145 0.0 14.9 44.5#





#94

Hexachlorobutadiene

Concen: 0.241 ug/l

RT: 13.70 min Scan# 3895

Delta R.T. 0.00 min

Lab File: VU027096.D

Acq: 24 Sep 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

EB01-20180917

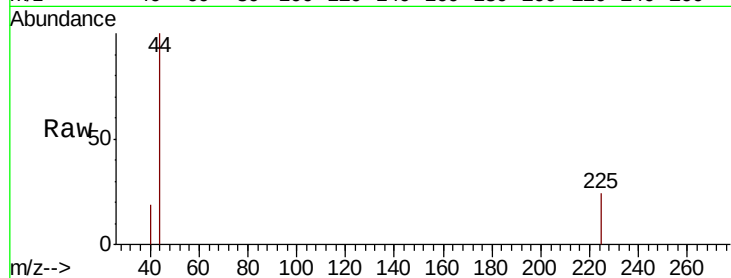
Tgt Ion:225 Resp: 193

Ion Ratio Lower Upper

225 100

223 0.0 31.9 95.7#

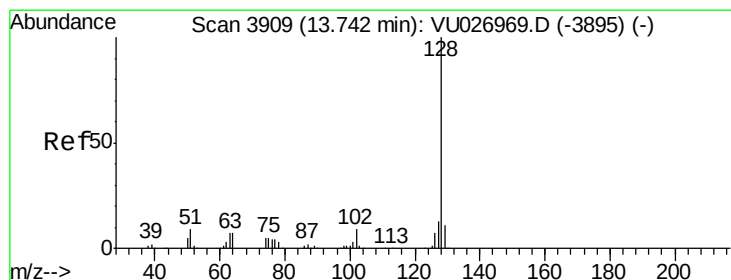
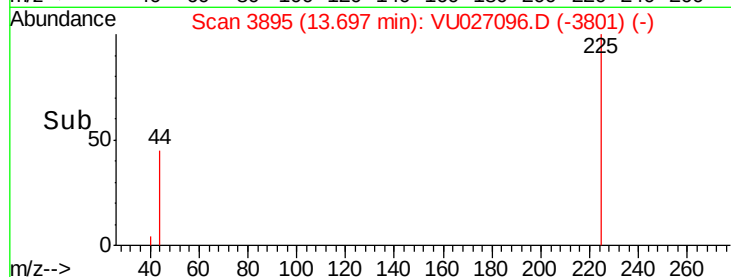
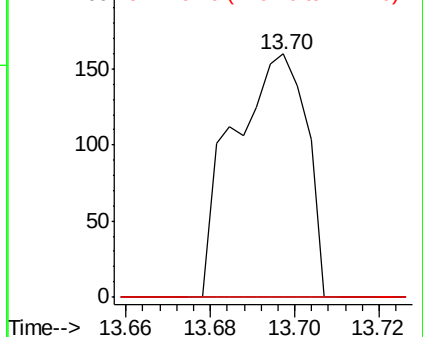
227 0.0 32.1 96.5#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.910 ug/l

RT: 13.76 min Scan# 3913

Delta R.T. 0.01 min

Lab File: VU027096.D

Acq: 24 Sep 2018 10:20

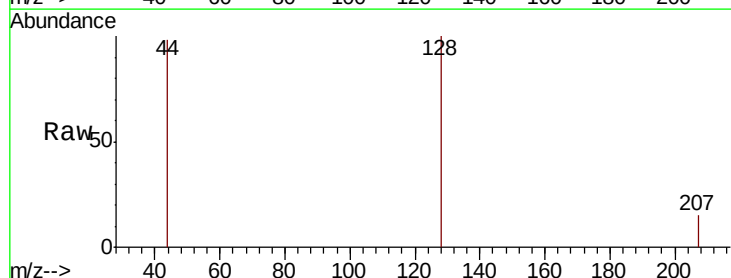
Tgt Ion:128 Resp: 1353

Ion Ratio Lower Upper

128 100

127 2.9 10.6 15.8#

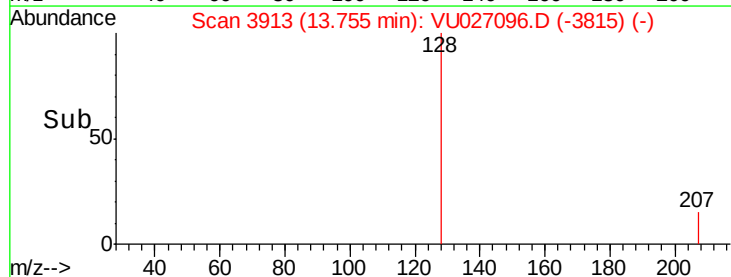
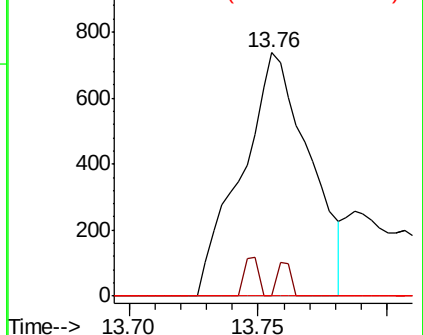
129 0.0 8.6 12.8#

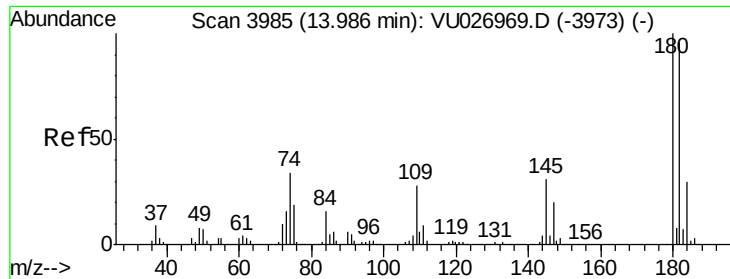


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.379 ug/l

RT: 13.99 min Scan# 3987

Delta R.T. 0.01 min

Lab File: VU027096.D

Acq: 24 Sep 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

EB01-20180917

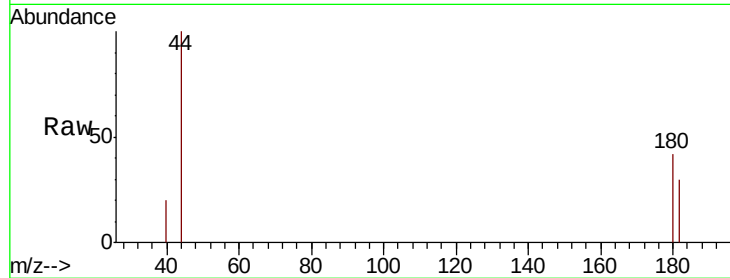
Tgt Ion:180 Resp: 614

Ion Ratio Lower Upper

180 100

182 43.5 47.5 142.5#

145 0.0 15.4 46.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

