

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100218\
 Data File : VU027338.D
 Acq On : 02 Oct 2018 10:41
 Operator : MD/SY
 Sample : PB113364TB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB113364TB

Quant Time: Oct 03 02:02:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 02:04:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	97940	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	167810	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	162265	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	74500	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	99430	60.80	ug/l	0.00
Spiked Amount			Recovery	=	121.60%	
35) Dibromofluoromethane	4.88	113	69575	60.50	ug/l	0.00
Spiked Amount			Recovery	=	121.00%	
50) Toluene-d8	7.57	98	264368	61.42	ug/l	0.00
Spiked Amount			Recovery	=	122.84%	
62) 4-Bromofluorobenzene	10.31	95	86874	54.31	ug/l	0.00
Spiked Amount			Recovery	=	108.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	474	0.439	ug/l #	44
11) Tert butyl alcohol	2.84	59	343	0.996	ug/l #	72
16) Acetone	2.32	43	10047	10.399	ug/l	98
17) Carbon Disulfide	2.48	76	835	0.224	ug/l #	75
18) Methyl Acetate	2.62	43	3027	1.373	ug/l	96
20) Methylene Chloride	2.70	84	2477	1.841	ug/l	91
25) 2-Butanone	4.28	43	958	0.727	ug/l	99
29) Tetrahydrofuran	4.66	42	743	0.895	ug/l #	52
31) Cyclohexane	4.99	56	2286	0.637	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	9131	5.011	ug/l #	51
38) Carbon Tetrachloride	4.99	117	10091	6.131	ug/l #	18
43) Isopropyl Acetate	5.55	43	107077	29.278	ug/l	100
48) Methyl methacrylate	6.71	41	10610	5.834	ug/l #	46
51) 4-Methyl-2-Pentanone	7.47	43	1264	0.532	ug/l #	85
54) cis-1,3-Dichloropropene	7.42	75	462	0.204	ug/l #	70
56) Ethyl methacrylate	7.82	69	101	2.312	ug/l #	75
59) 2-Hexanone	8.42	43	7302	3.961	ug/l #	55
70) Styrene	9.80	104	183	2.344	ug/l #	24
76) 1,2,3-Trichloropropane	10.31	75	46826	24.247	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.31	75	46826	63.457	ug/l #	100
89) n-Butylbenzene	11.89	91	754	2.098	ug/l	88
93) 1,2,4-Trichlorobenzene	13.51	180	464	0.309	ug/l #	87
94) Hexachlorobutadiene	13.69	225	188	0.248	ug/l	82
95) Naphthalene	13.75	128	1879	1.982	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.00	180	404	0.259	ug/l #	63

(#) = 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

Lab File: VU027338.D

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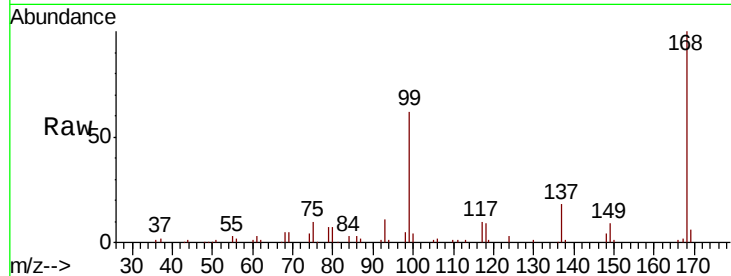
PB113364TB

Tot Ion:168 Resp: 97940

Ion Ratio Lower Upper

168 100

99 61.6 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)

4.99

40000

30000

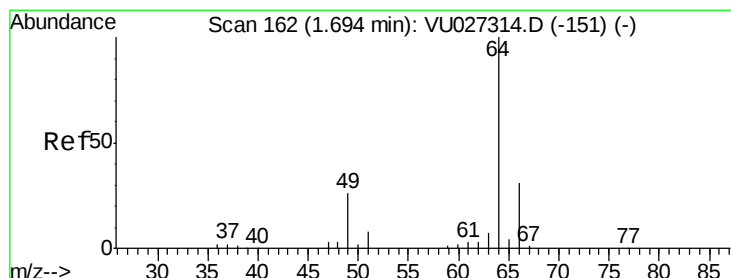
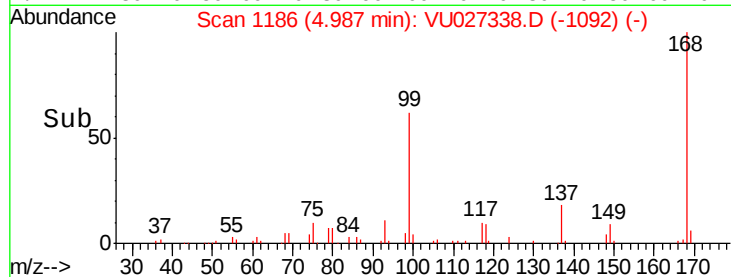
20000

10000

0

Time-->

4.90 4.95 5.00 5.05 5.10



#6

Chloroethane

Concen: 0.439 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU027338.D

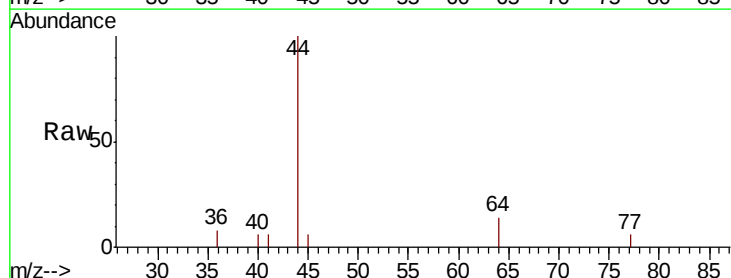
Acq: 02 Oct 2018 10:41

Tgt Ion: 64 Resp: 474

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VU027314.D (-151) (-)

Ion 65.90 (65.60 to 66.60): VU027314.D (-151) (-)

1.70

300

250

200

150

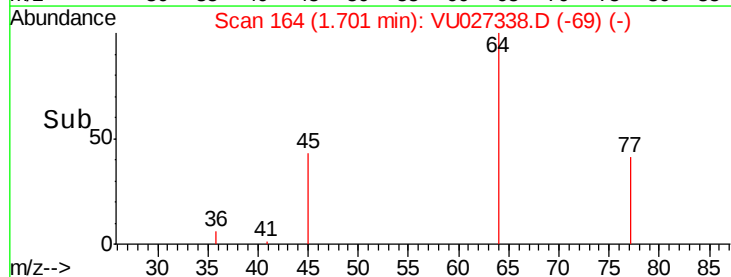
100

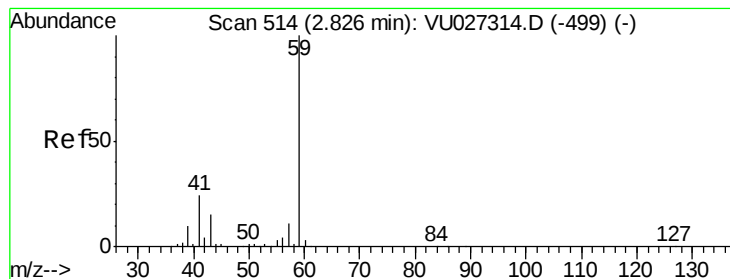
50

0

Time-->

1.68 1.70 1.72 1.74



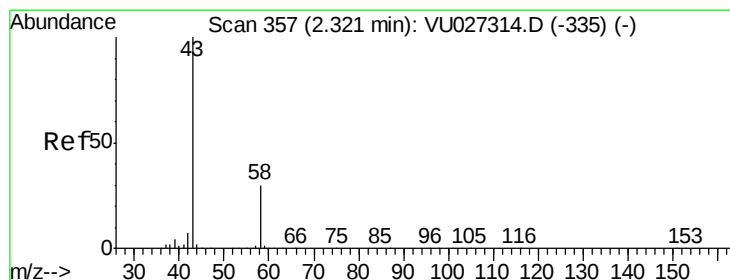
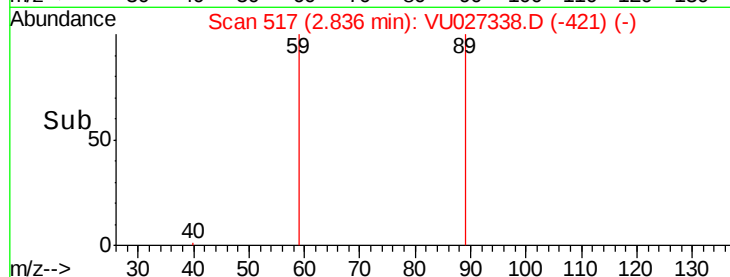
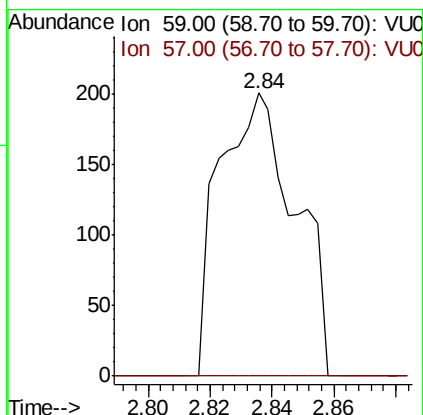
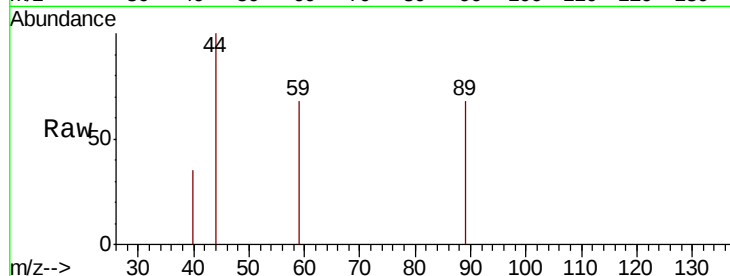


#11

Tert butyl alcohol
 Concen: 0.996 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: VU027338.D
 Acq: 02 Oct 2018 10:41

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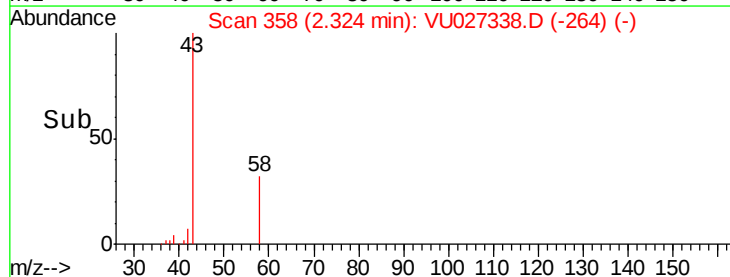
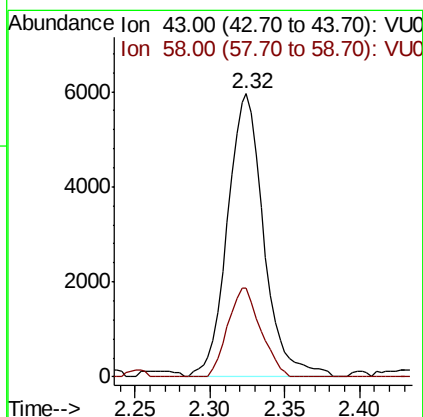
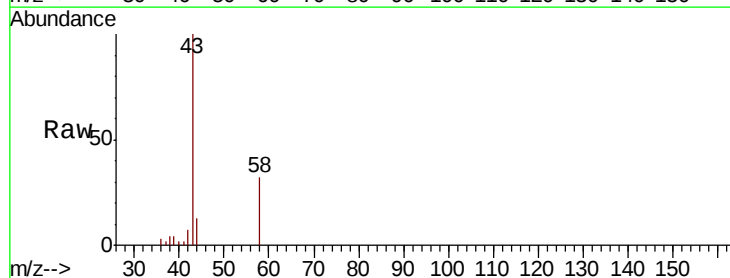
Tot Ion: 59 Resp: 343
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

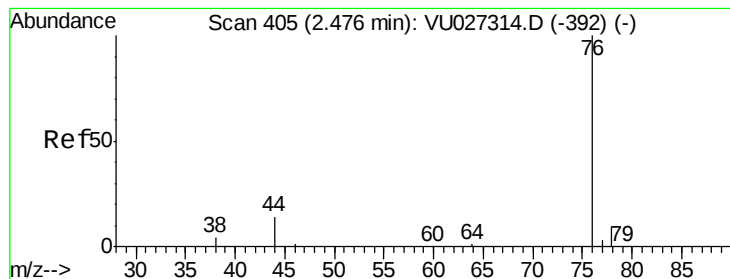


#16

Acetone
 Concen: 10.399 ug/l
 RT: 2.32 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VU027338.D
 Acq: 02 Oct 2018 10:41

Tgt Ion: 43 Resp: 10047
 Ion Ratio Lower Upper
 43 100
 58 31.6 24.2 36.4





#17

Carbon Disulfide

Concen: 0.224 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

Instrument :

MSVOA_U

ClientSampleId :

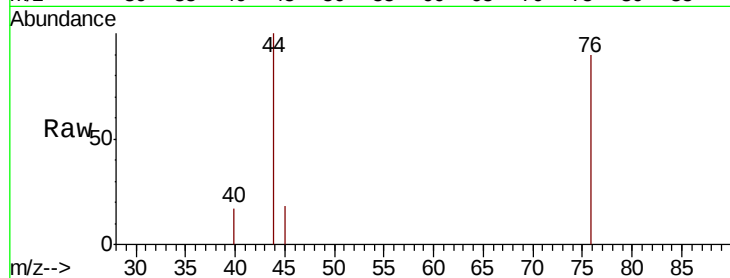
PB113364TB

Tot Ion: 76 Resp: 835

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

500

400

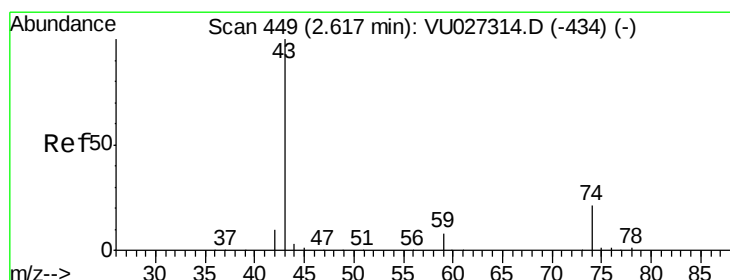
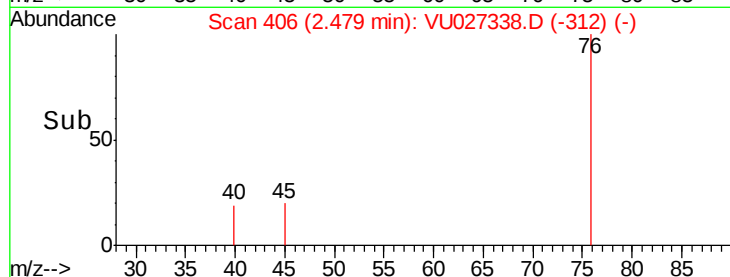
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: 1.373 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU027338.D

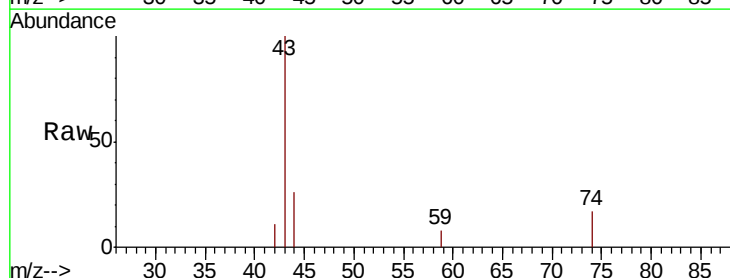
Acq: 02 Oct 2018 10:41

Tgt Ion: 43 Resp: 3027

Ion Ratio Lower Upper

43 100

74 18.6 16.5 24.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

2000

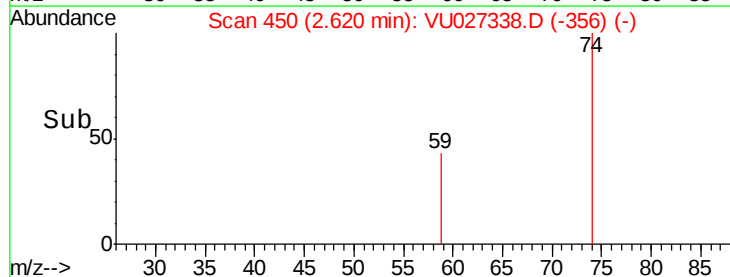
1500

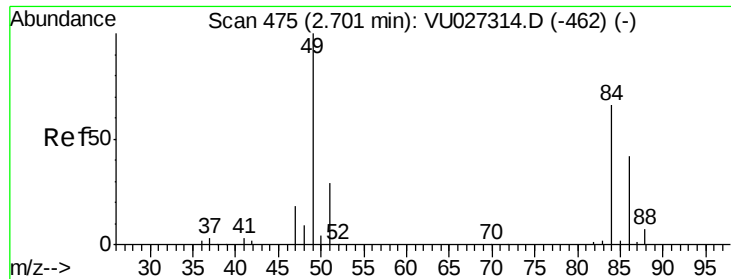
1000

500

0

Time-->

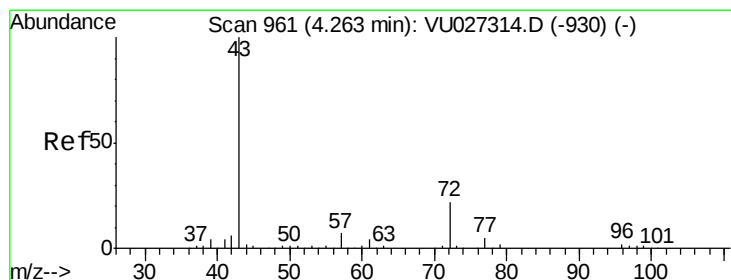
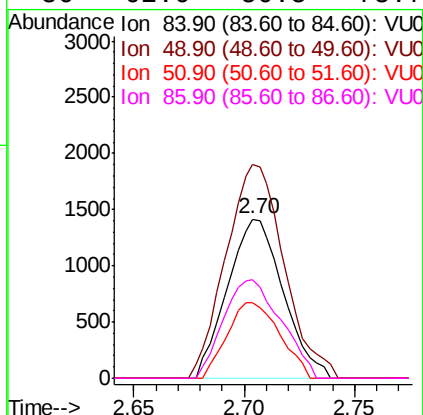
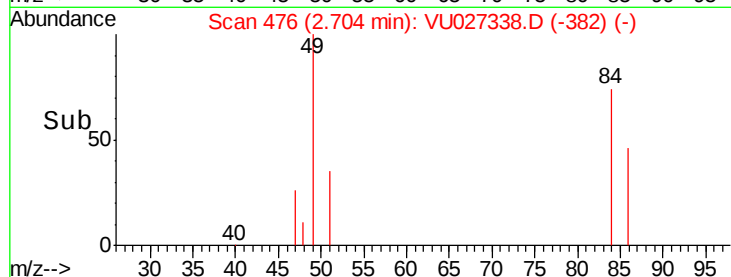
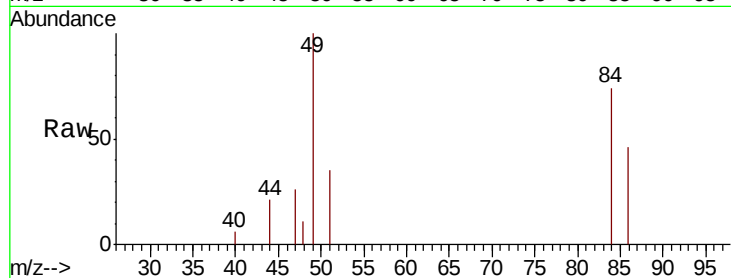




#20
Methylene Chloride
Concen: 1.841 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

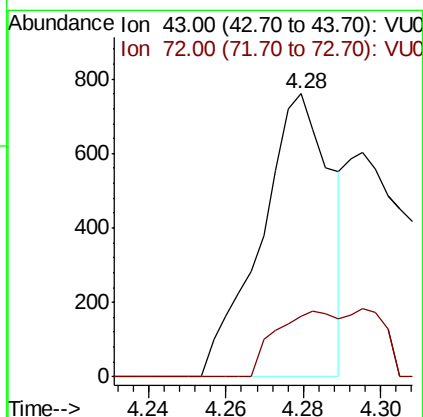
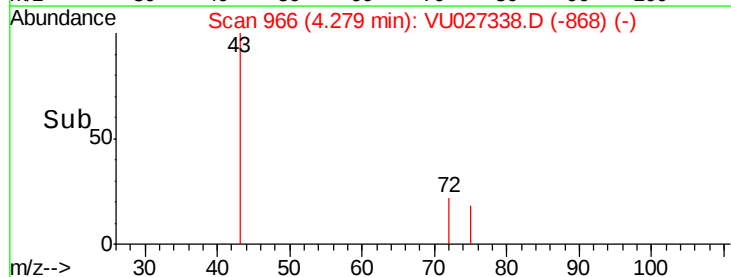
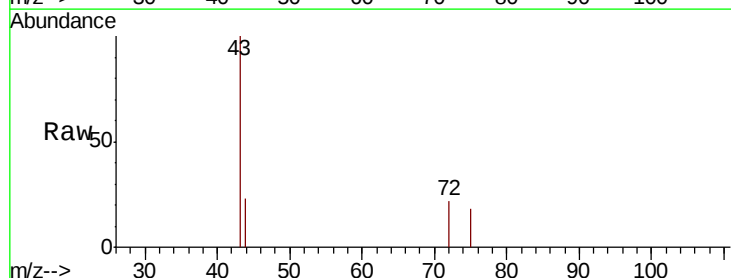
Instrument :
MSVOA_U
ClientSampleId :
PB113364TB

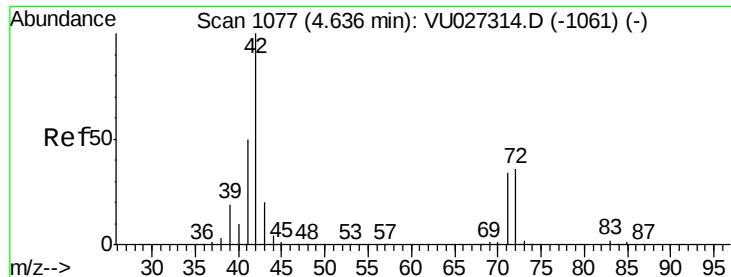
Tot Ion: 84 Resp: 2477
Ion Ratio Lower Upper
84 100
49 134.3 120.5 180.7
51 47.1 35.1 52.7
86 62.0 50.5 75.7



#25
2-Butanone
Concen: 0.727 ug/l
RT: 4.28 min Scan# 966
Delta R.T. 0.02 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

Tgt Ion: 43 Resp: 958
Ion Ratio Lower Upper
43 100
72 21.6 17.8 26.6

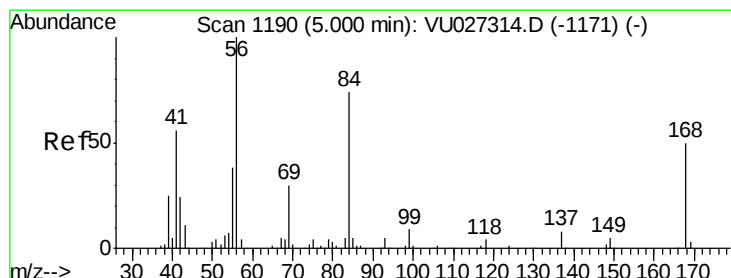
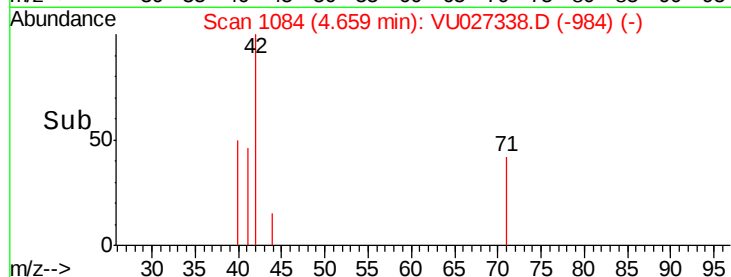
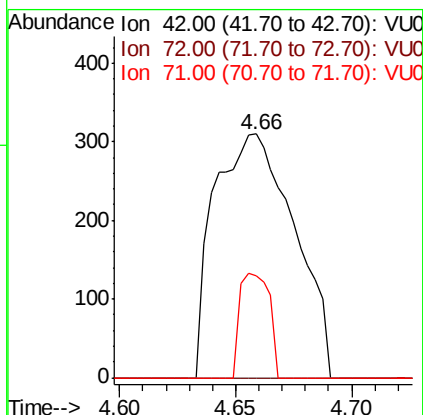
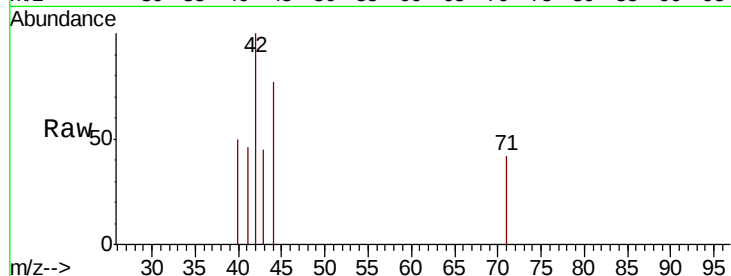




#29
Tetrahydrofuran
Concen: 0.895 ug/l
RT: 4.66 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

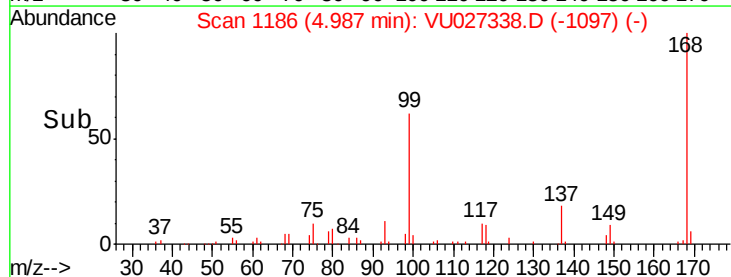
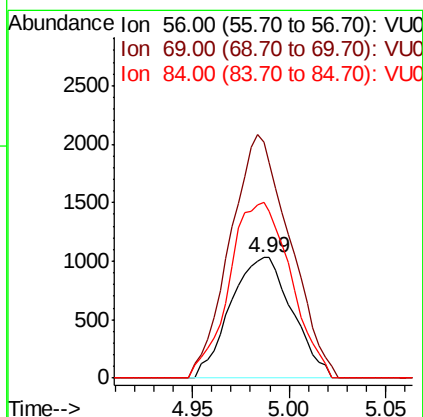
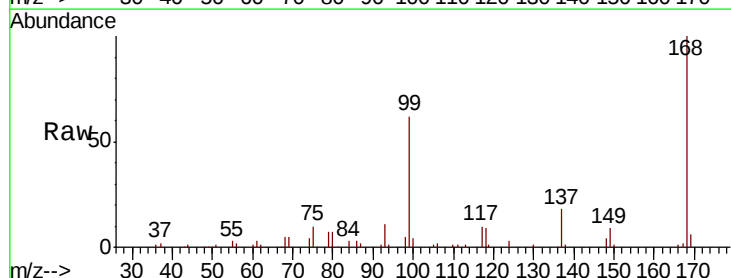
Instrument :
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ClientSampleId :
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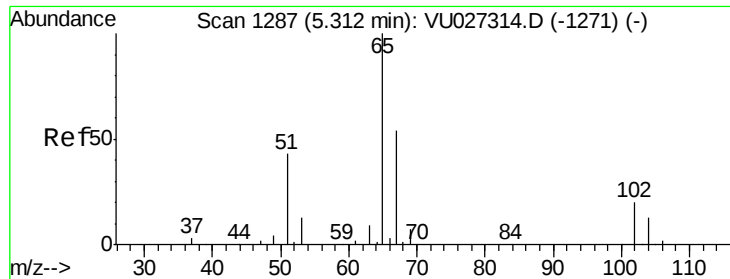
Tot Ion: 42 Resp: 743
Ion Ratio Lower Upper
42 100
72 0.0 30.1 45.1#
71 15.7 27.7 41.5#



#31
Cyclohexane
Concen: 0.637 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

Tgt Ion: 56 Resp: 2286
Ion Ratio Lower Upper
56 100
69 196.0 24.1 36.1#
84 146.4 59.1 88.7#

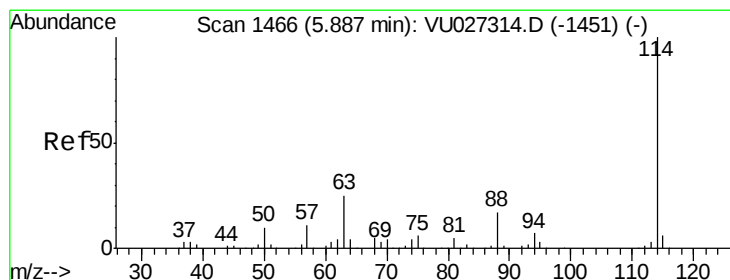
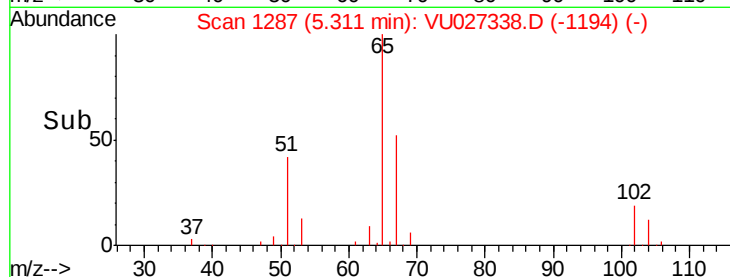
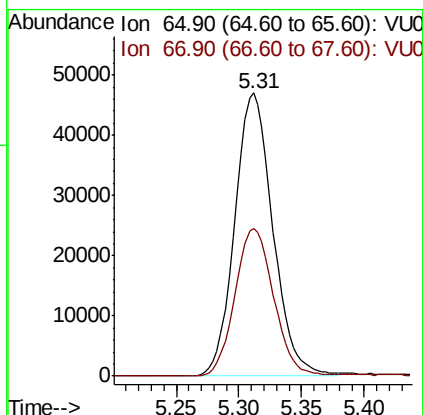
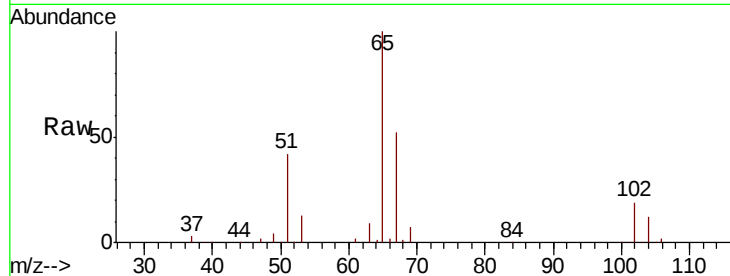




#33
 1,2-Dichloroethane-d4
 Concen: 60.798 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027338.D
 Acq: 02 Oct 2018 10:41

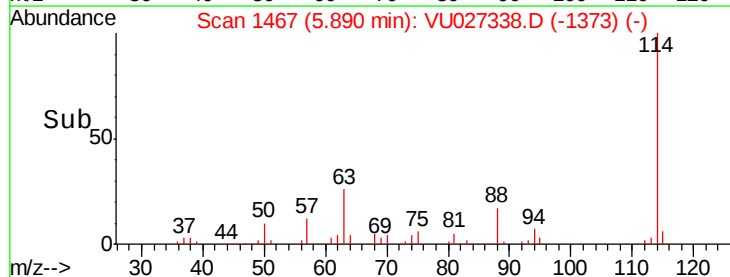
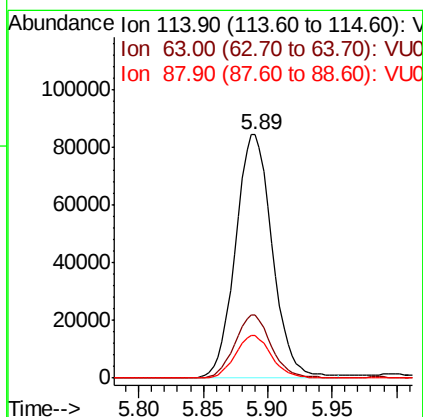
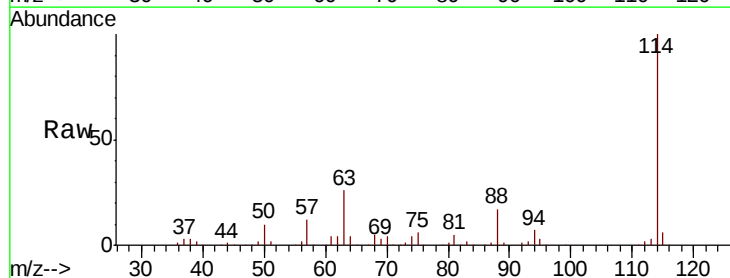
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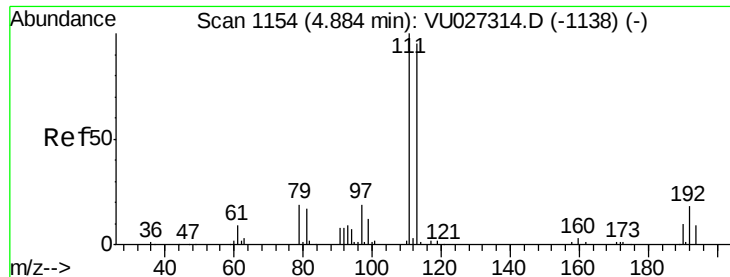
Tot Ion: 65 Resp: 99430
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027338.D
 Acq: 02 Oct 2018 10:41

Tgt Ion: 114 Resp: 167810
 Ion Ratio Lower Upper
 114 100
 63 25.8 0.0 50.2
 88 17.4 0.0 33.8

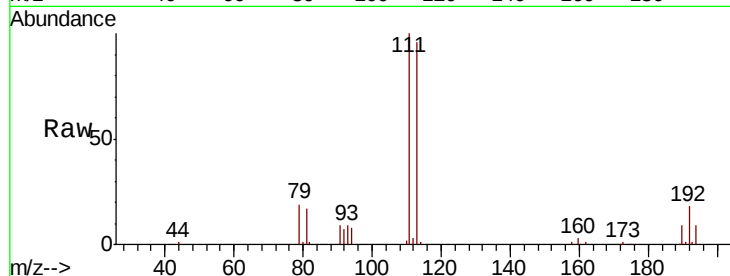




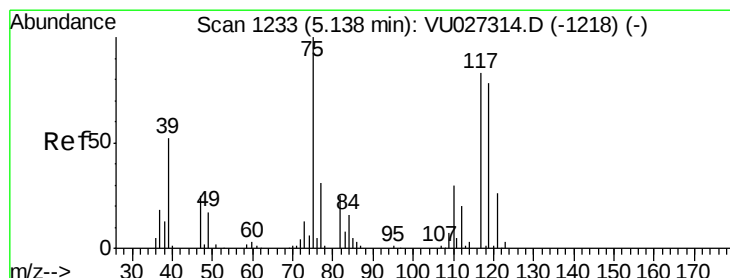
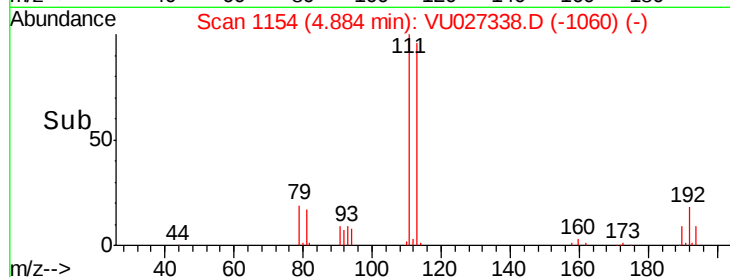
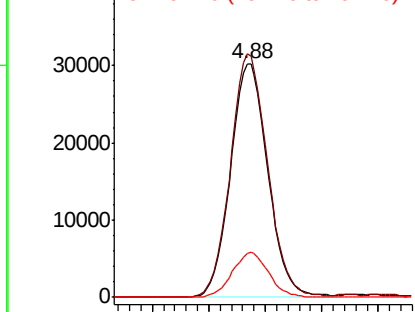
#35
Dibromofluoromethane
Concen: 60.497 ug/l
RT: 4.88 min Scan# 1154
Delta R.T. 0.00 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

Instrument :
MSVOA_U
ClientSampleId :
PB113364TB

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.1	124.7
192	18.6	15.4	23.0

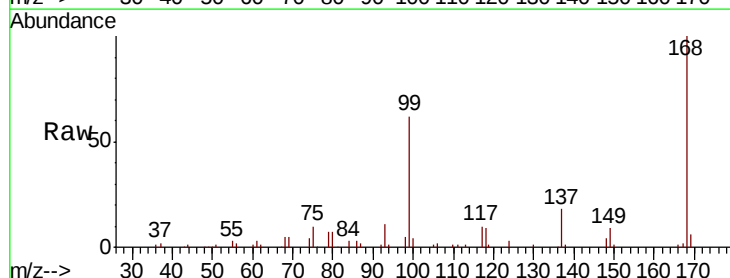


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

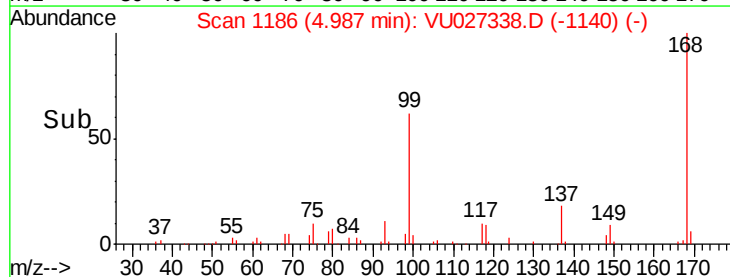
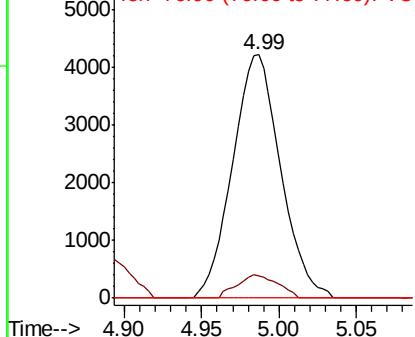


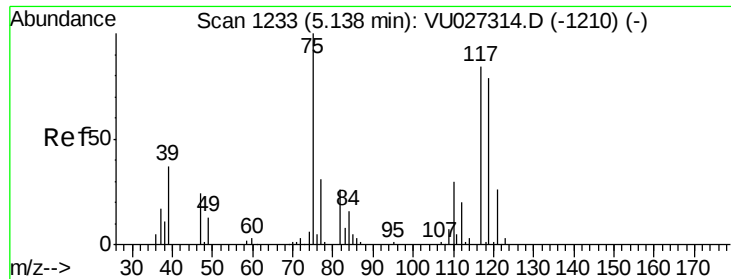
#36
1,1-Dichloropropene
Concen: 5.011 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.15 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	15.5	46.5#
77	0.0	25.4	38.0#



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: 6.131 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

Instrument :

MSVOA_U

ClientSampleId :

PB113364TB

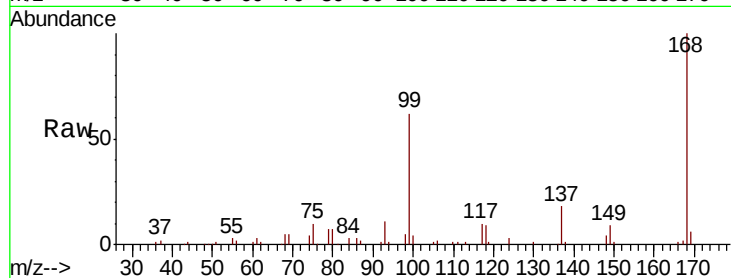
Tot Ion:117 Resp: 10091

Ion Ratio Lower Upper

117 100

119 6.3 74.5 111.7#

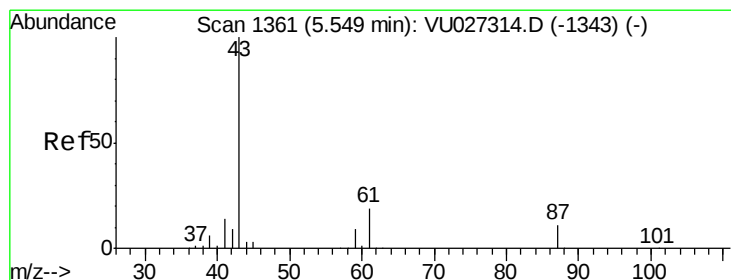
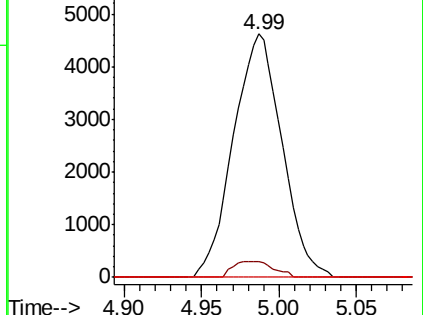
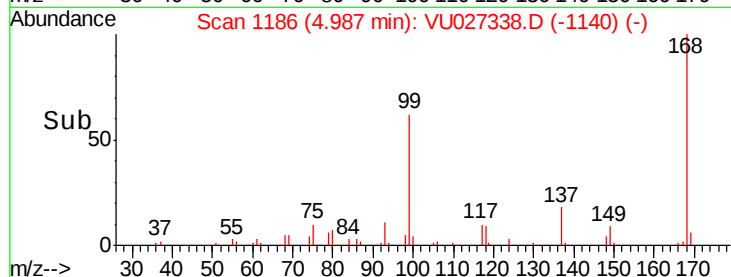
121 0.0 24.6 37.0#



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: 29.278 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

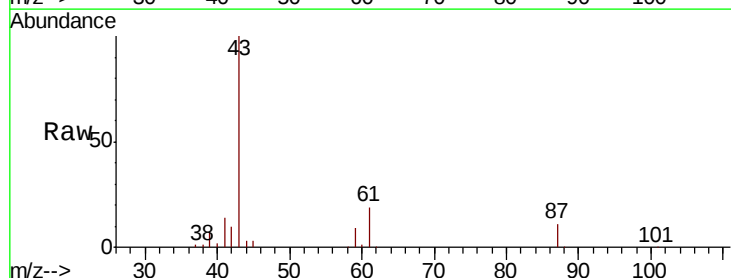
Tgt Ion: 43 Resp: 107077

Ion Ratio Lower Upper

43 100

61 19.0 15.3 22.9

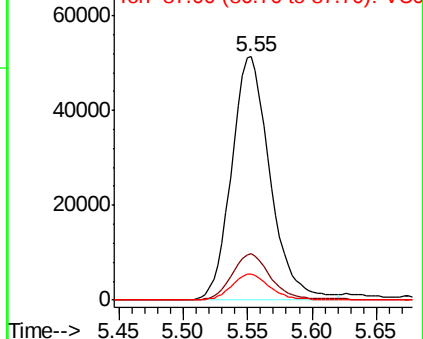
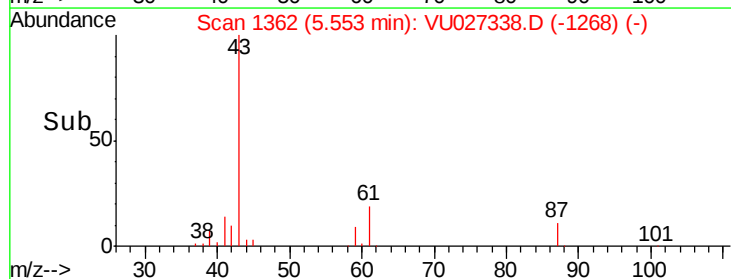
87 10.5 8.6 13.0

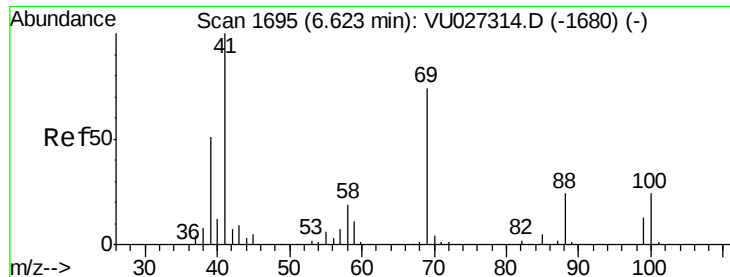


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

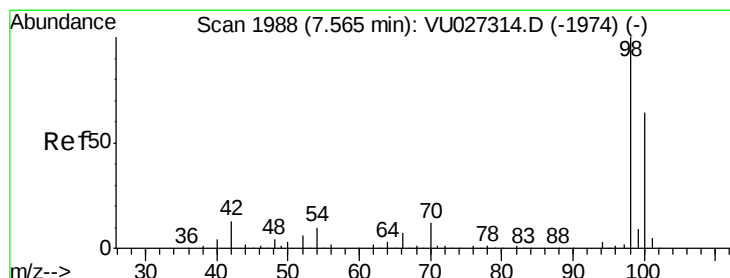
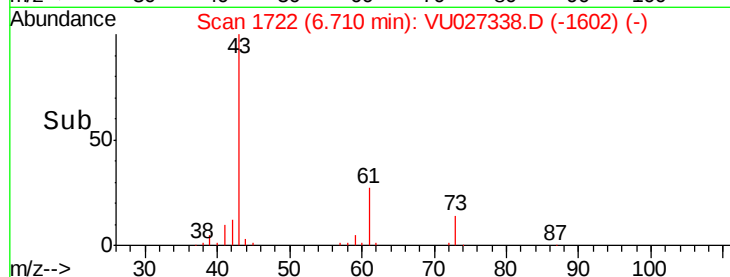
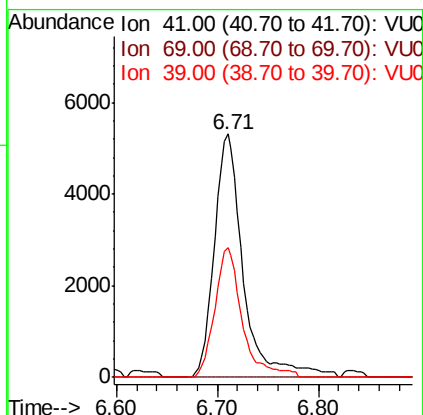
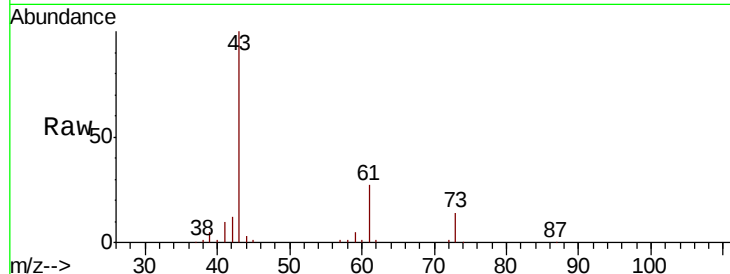




#48
Methvl methacrylate
Concen: 5.834 ug/l
RT: 6.71 min Scan# 1722
Delta R.T. 0.09 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

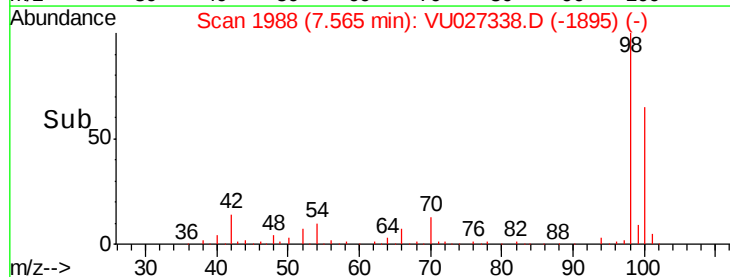
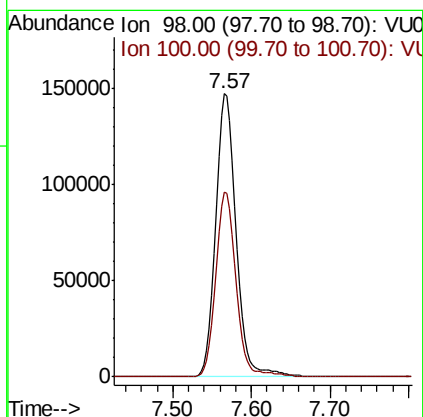
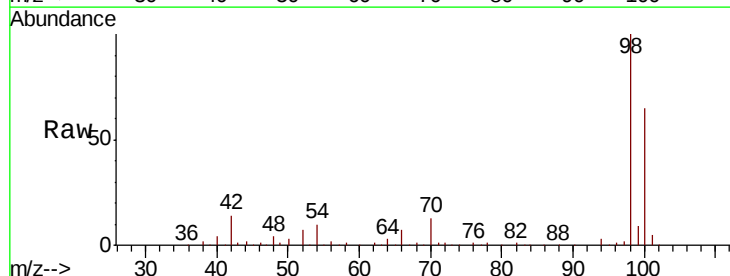
Instrument :
MSVOA_U
ClientSampleId :
PB113364TB

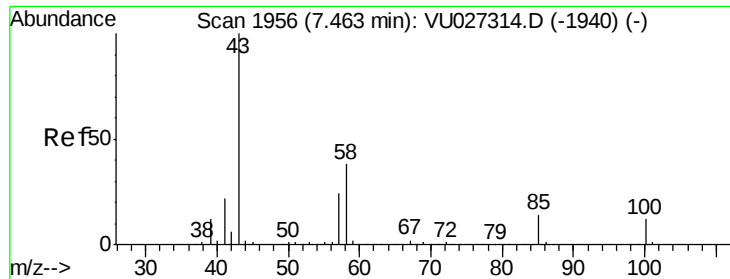
Tot Ion: 41 Resp: 10610
Ion Ratio Lower Upper
41 100
69 0.0 61.0 91.4#
39 50.4 39.9 59.9



#50
Toluene-d8
Concen: 61.420 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

Tgt Ion: 98 Resp: 264368
Ion Ratio Lower Upper
98 100
100 65.1 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 0.532 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.00 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

Instrument :

MSVOA_U

ClientSampleId :

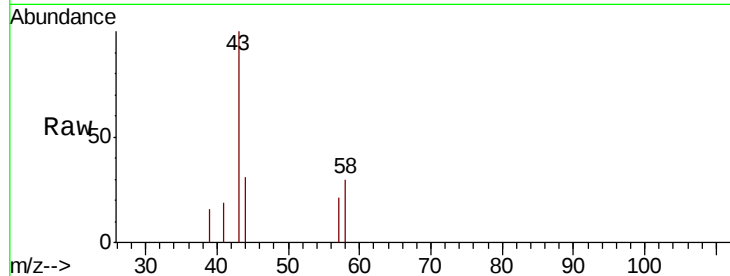
PB113364TB

Tot Ion: 43 Resp: 1264

Ion Ratio Lower Upper

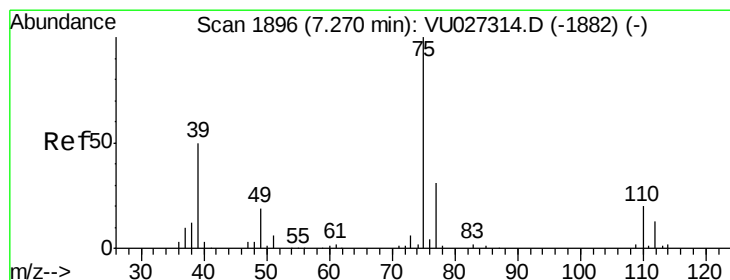
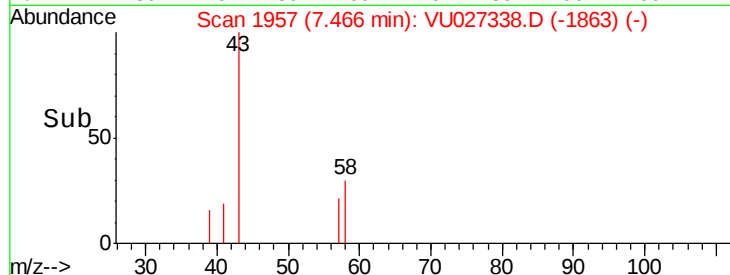
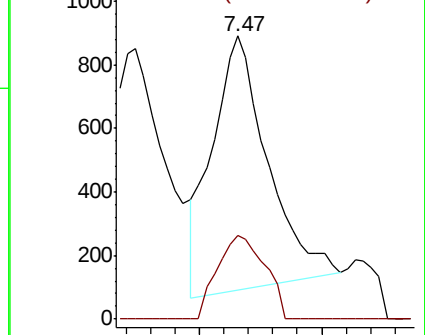
43 100

58 28.2 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 0.204 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

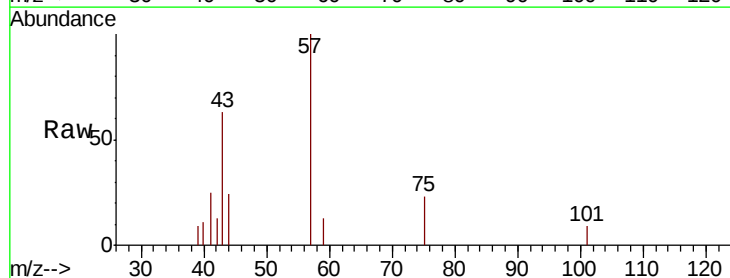
Tgt Ion: 75 Resp: 462

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

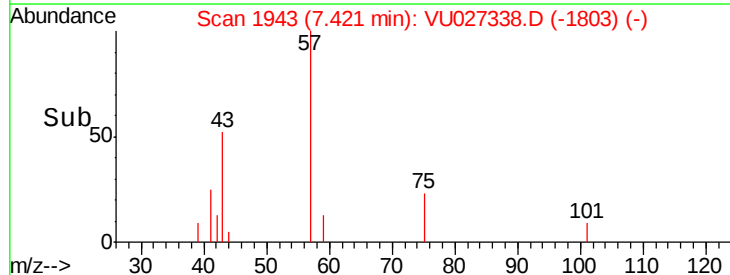
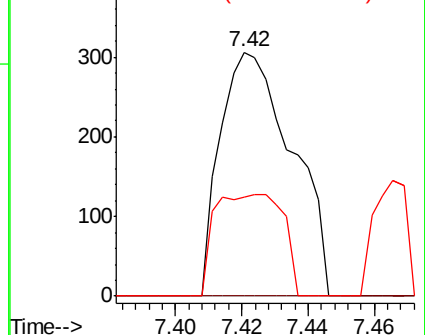
39 40.5 40.1 60.1

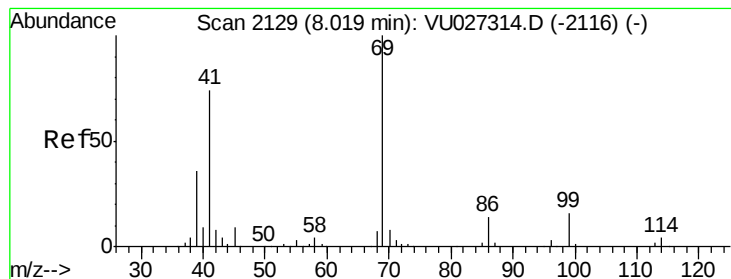


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#56

Ethyl methacrylate

Concen: 2.312 ug/l

RT: 7.82 min Scan# 2067

Delta R.T. -0.20 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

Instrument :

MSVOA_U

ClientSampleId :

PB113364TB

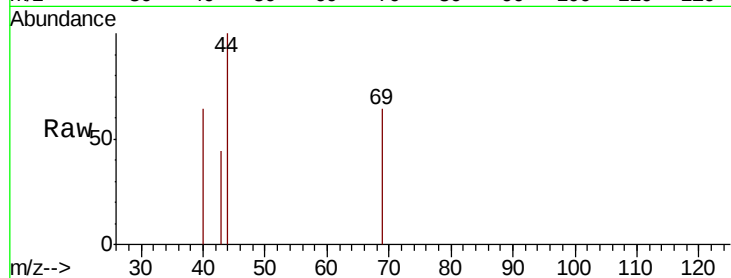
Tot Ion: 69 Resp: 101

Ion Ratio Lower Upper

69 100

41 69.3 60.0 90.0

39 0.0 29.5 44.3#



Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

7.82

150

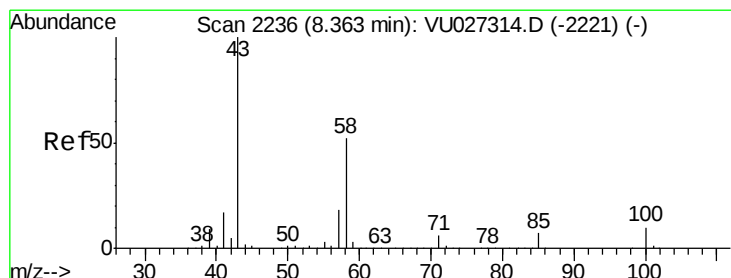
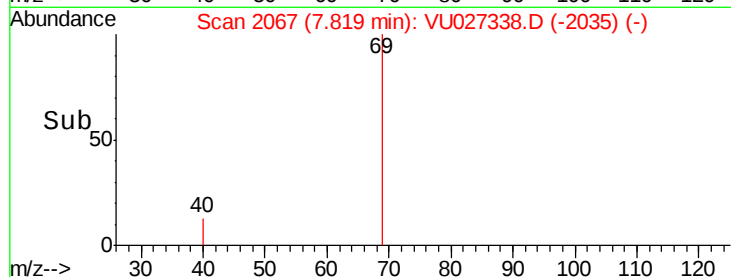
100

50

0

7.81 7.82 7.83

Time-->



#59

2-Hexanone

Concen: 3.961 ug/l

RT: 8.42 min Scan# 2254

Delta R.T. 0.06 min

Lab File: VU027338.D

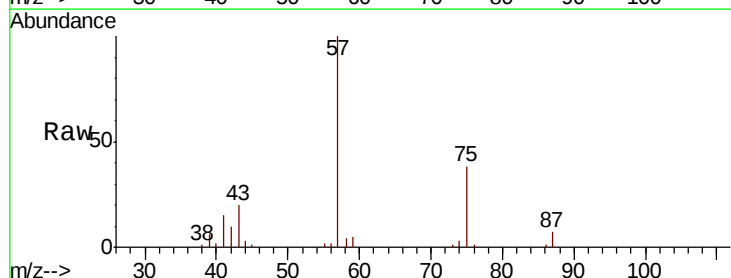
Acq: 02 Oct 2018 10:41

Tgt Ion: 43 Resp: 7302

Ion Ratio Lower Upper

43 100

58 20.7 26.1 78.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

4000

3000

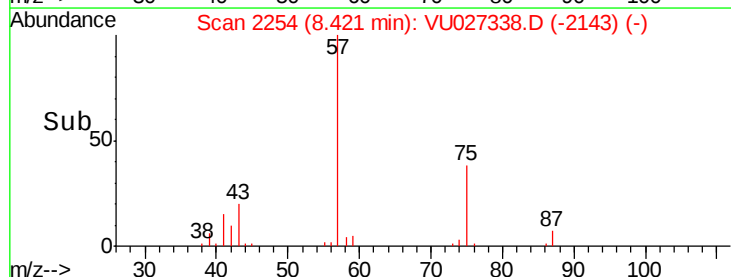
2000

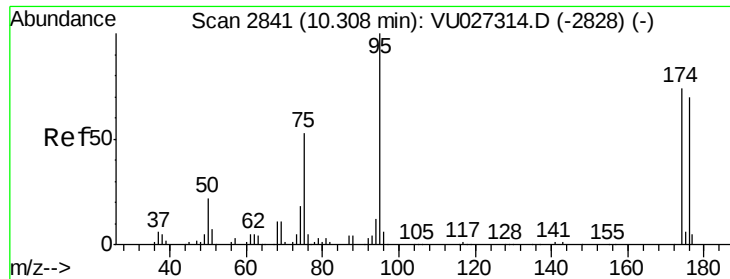
1000

0

8.30 8.35 8.40 8.45

Time-->





#62

4-Bromofluorobenzene

Concen: 54.308 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

Instrument :

MSVOA_U

ClientSampleId :

PB113364TB

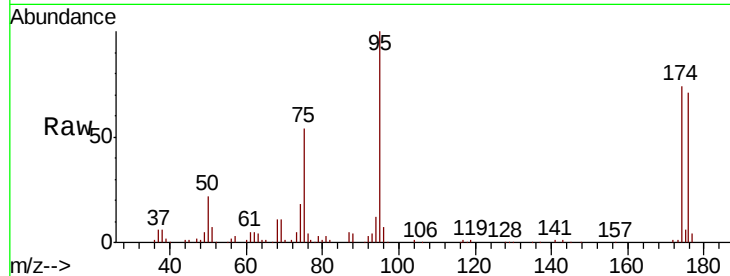
Tot Ion: 95 Resp: 86874

Ion Ratio Lower Upper

95 100

174 74.8 0.0 147.8

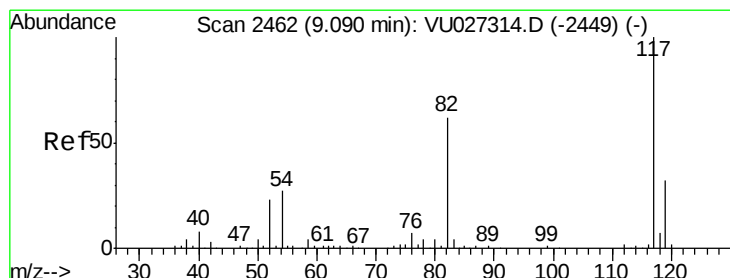
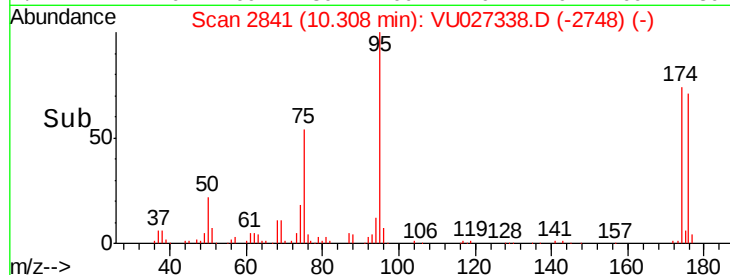
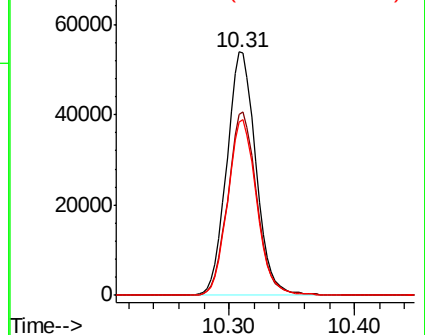
176 71.9 0.0 140.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

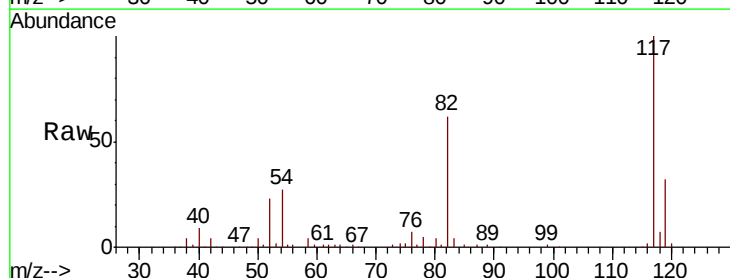
Tgt Ion: 117 Resp: 162265

Ion Ratio Lower Upper

117 100

82 61.8 49.2 73.8

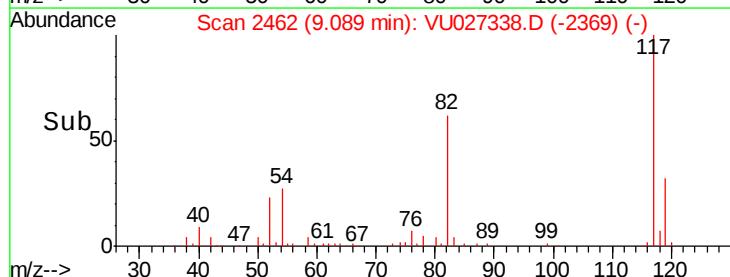
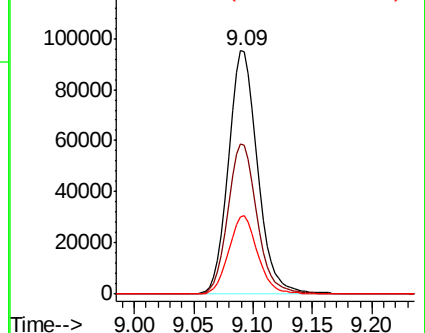
119 31.6 25.7 38.5

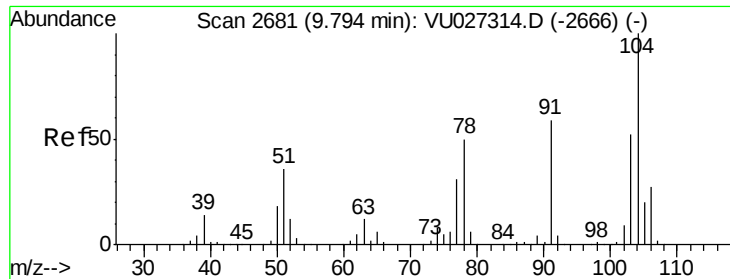


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V

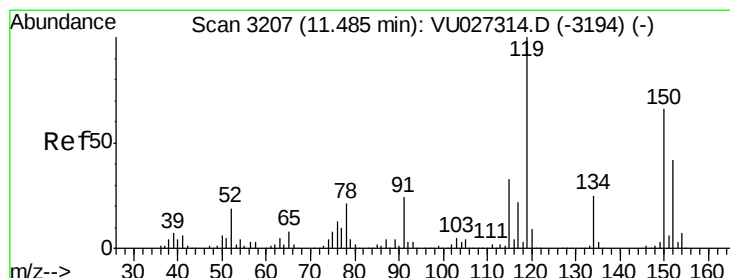
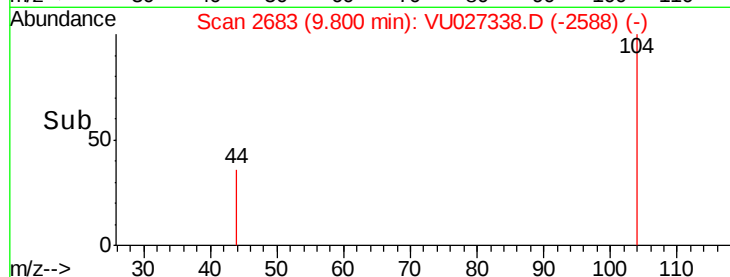
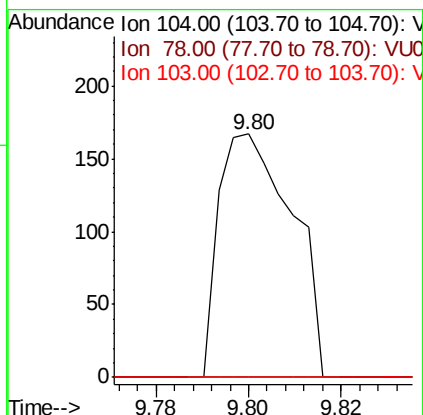
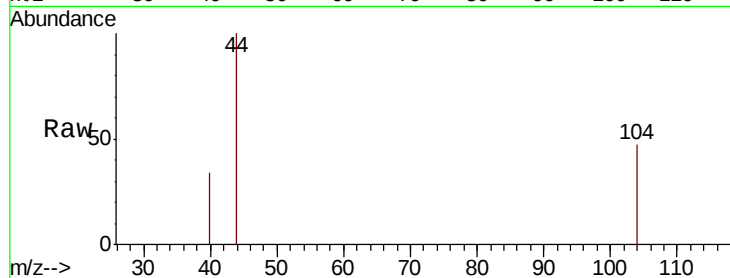




#70
Stvrene
Concen: 2.344 ug/l
RT: 9.80 min Scan# 2683
Delta R.T. 0.01 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

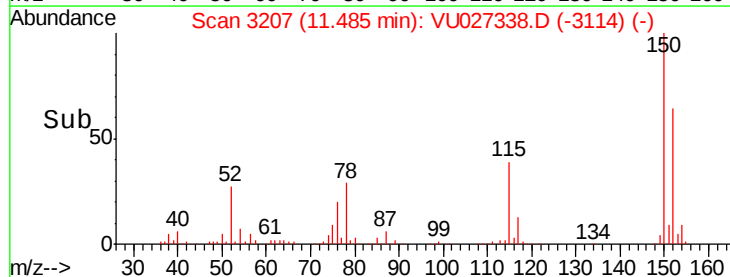
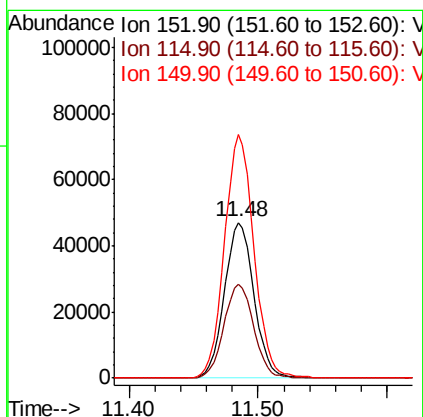
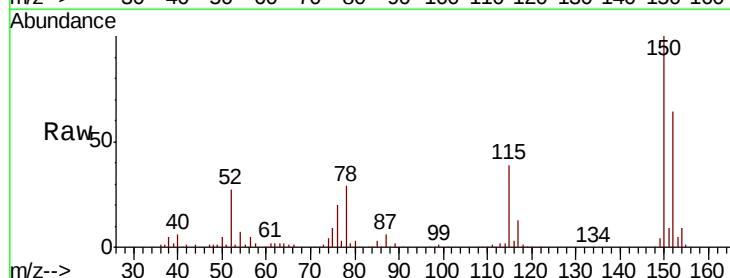
Instrument :
MSVOA_U
ClientSampleId :
PB113364TB

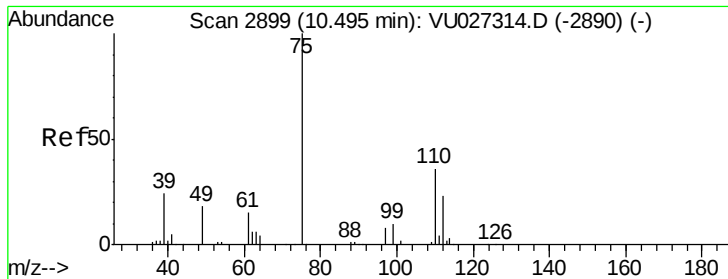
Tot Ion:104 Resp: 183
Ion Ratio Lower Upper
104 100
78 0.0 42.9 64.3#
103 0.0 43.9 65.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

Tgt Ion:152 Resp: 74500
Ion Ratio Lower Upper
152 100
115 61.2 43.4 130.2
150 156.6 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 24.247 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

Instrument :

MSVOA_U

ClientSampleId :

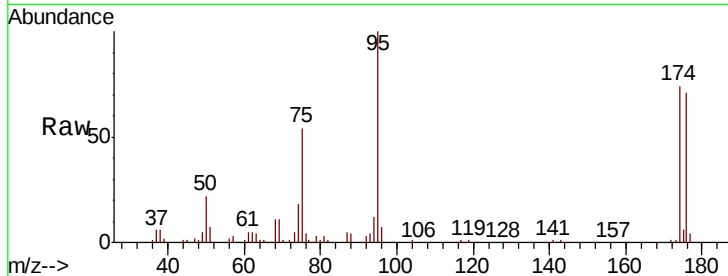
PB113364TB

Tot Ion: 75 Resp: 46826

Ion Ratio Lower Upper

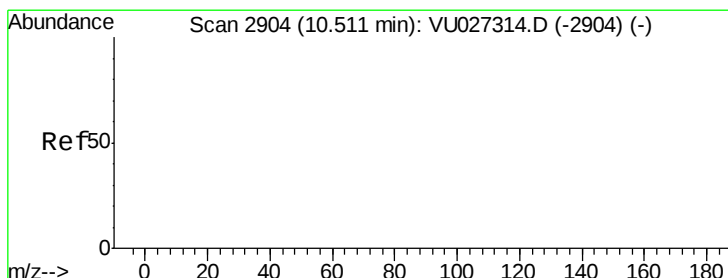
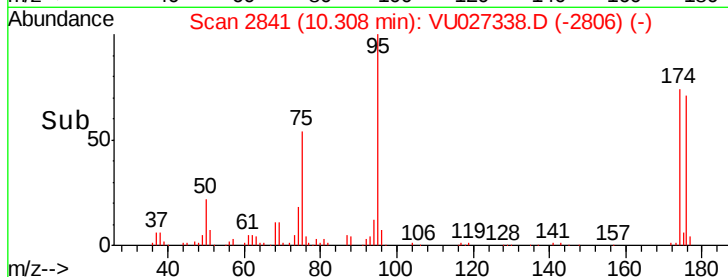
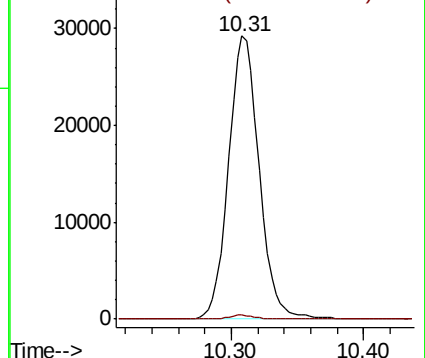
75 100

77 1.1 20.3 60.9#



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: 63.457 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

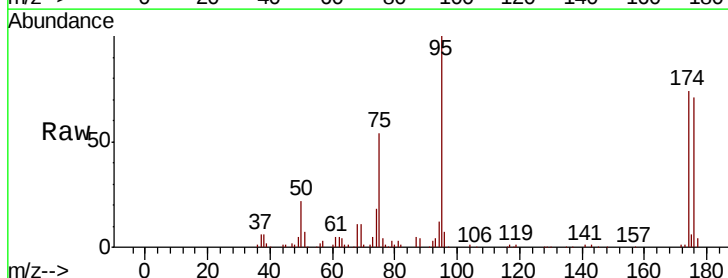
Tgt Ion: 75 Resp: 46826

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

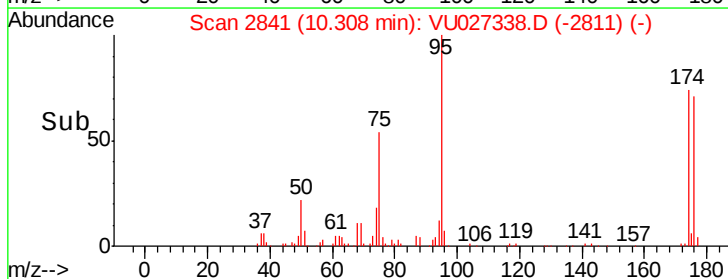
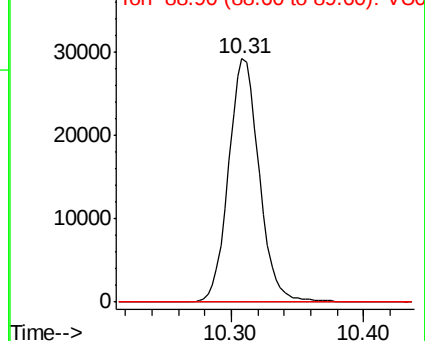
89 0.0 0.0 0.0

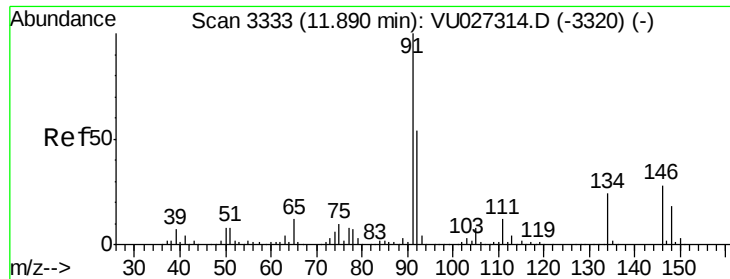


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

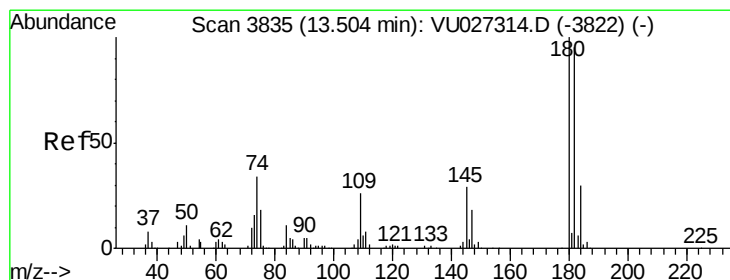
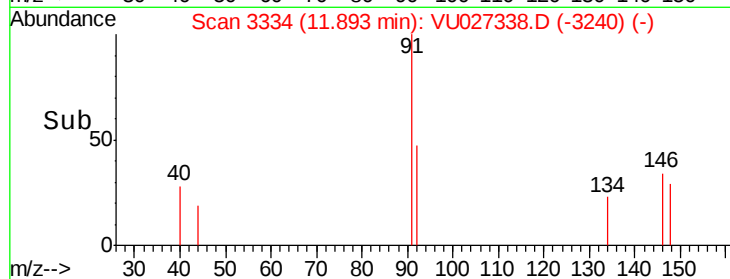
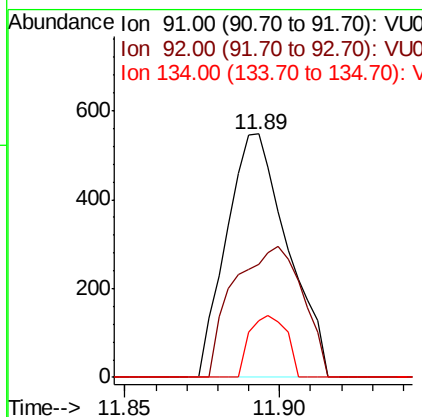
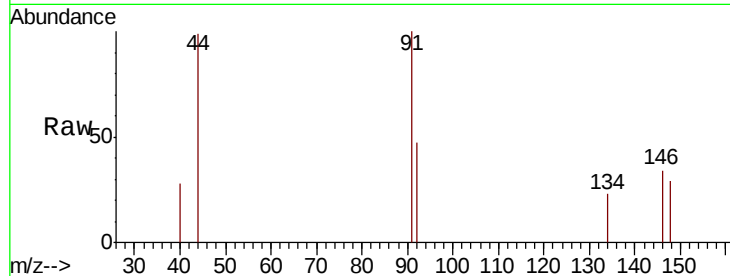




#89
n-Butylbenzene
Concen: 2.098 ug/l
RT: 11.89 min Scan# 3334
Delta R.T. 0.00 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

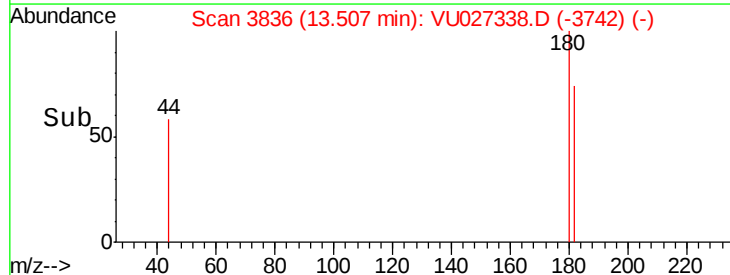
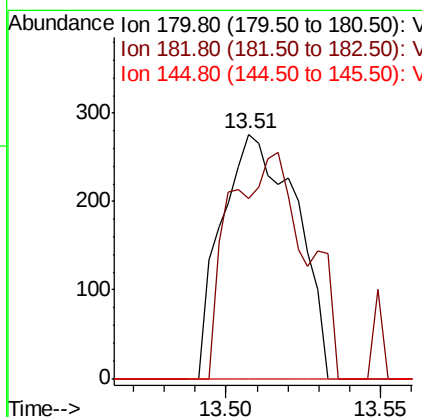
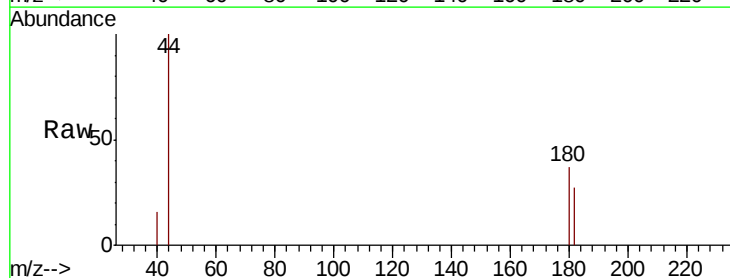
Instrument :
MSVOA_U
ClientSampleId :
PB113364TB

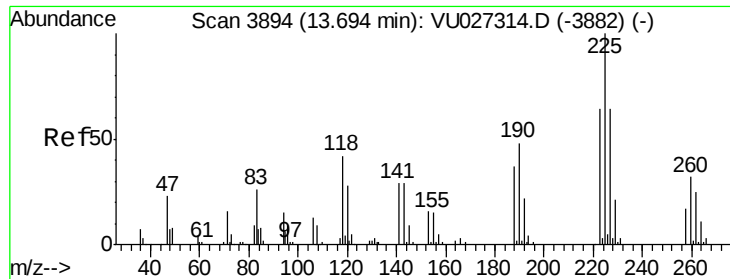
Tot Ion: 91 Resp: 754
Ion Ratio Lower Upper
91 100
92 60.9 27.0 81.0
134 15.3 11.7 35.1



#93
1,2,4-Trichlorobenzene
Concen: 0.309 ug/l
RT: 13.51 min Scan# 3836
Delta R.T. 0.00 min
Lab File: VU027338.D
Acq: 02 Oct 2018 10:41

Tgt Ion: 180 Resp: 464
Ion Ratio Lower Upper
180 100
182 94.2 47.4 142.3
145 0.0 14.6 44.0#





#94

Hexachlorobutadiene

Concen: 0.248 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. -0.00 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

Instrument :

MSVOA_U

ClientSampleId :

PB113364TB

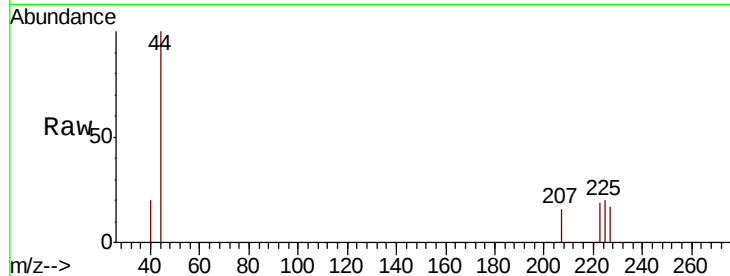
Tot Ion:225 Resp: 188

Ion Ratio Lower Upper

225 100

223 67.0 31.8 95.3

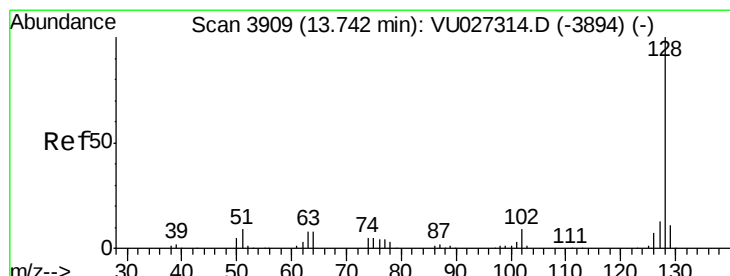
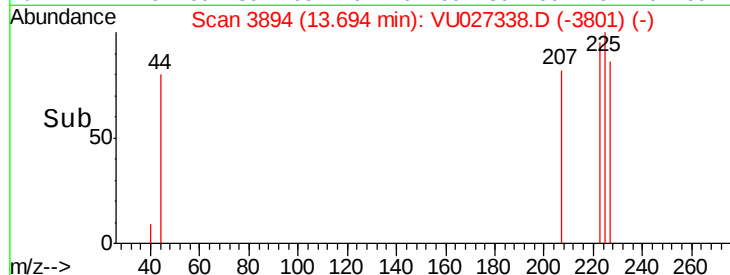
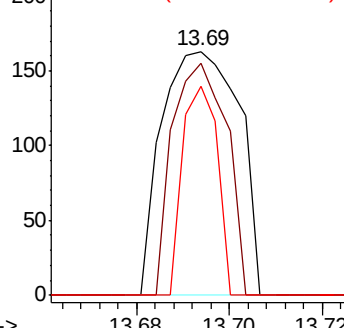
227 38.8 31.9 95.7



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: 1.982 ug/l

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU027338.D

Acq: 02 Oct 2018 10:41

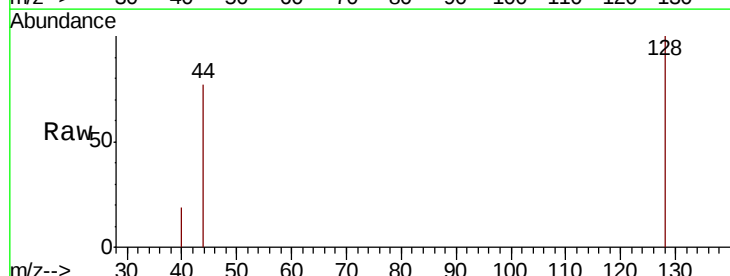
Tgt Ion:128 Resp: 1879

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

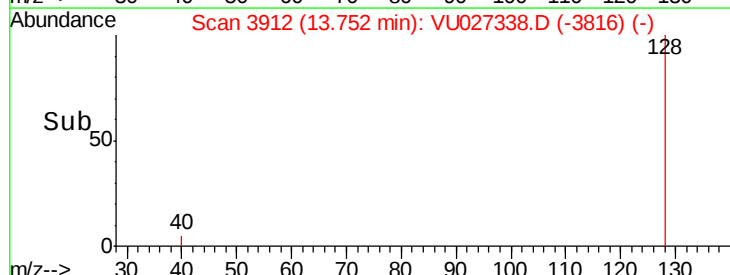
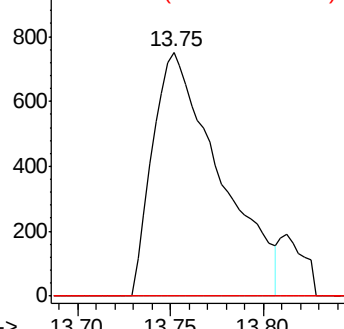
129 0.0 8.6 12.8#

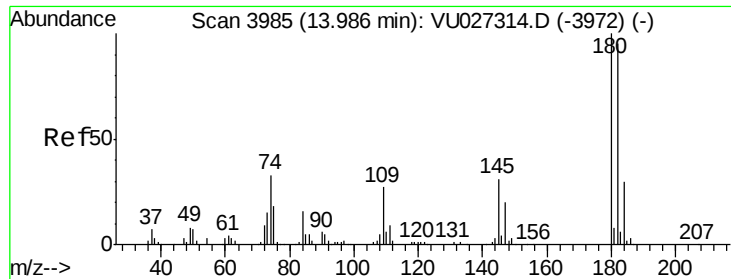


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.259 ug/l
 RT: 14.00 min Scan# 3988
 Delta R.T. 0.01 min
 Lab File: VU027338.D
 Acq: 02 Oct 2018 10:41

Instrument :
 MSVOA_U
 ClientSampleId :
 PB113364TB

Tot Ion	Ratio	Lower	Upper
180	100		
182	123.8	47.4	142.2
145	0.0	15.9	47.7#

