

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110918\
 Data File : VU028034.D
 Acq On : 09 Nov 2018 11:07
 Operator : MD/SY
 Sample : VU1109WBL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBL01

Quant Time: Nov 12 06:12:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	203062	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	388244	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	340065	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	138221	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	170628	56.52	ug/l	0.00
Spiked Amount			Recovery	=	113.04%	
35) Dibromofluoromethane	4.88	113	124976	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
50) Toluene-d8	7.57	98	500086	52.88	ug/l	0.00
Spiked Amount			Recovery	=	105.76%	
62) 4-Bromofluorobenzene	10.31	95	163705	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	

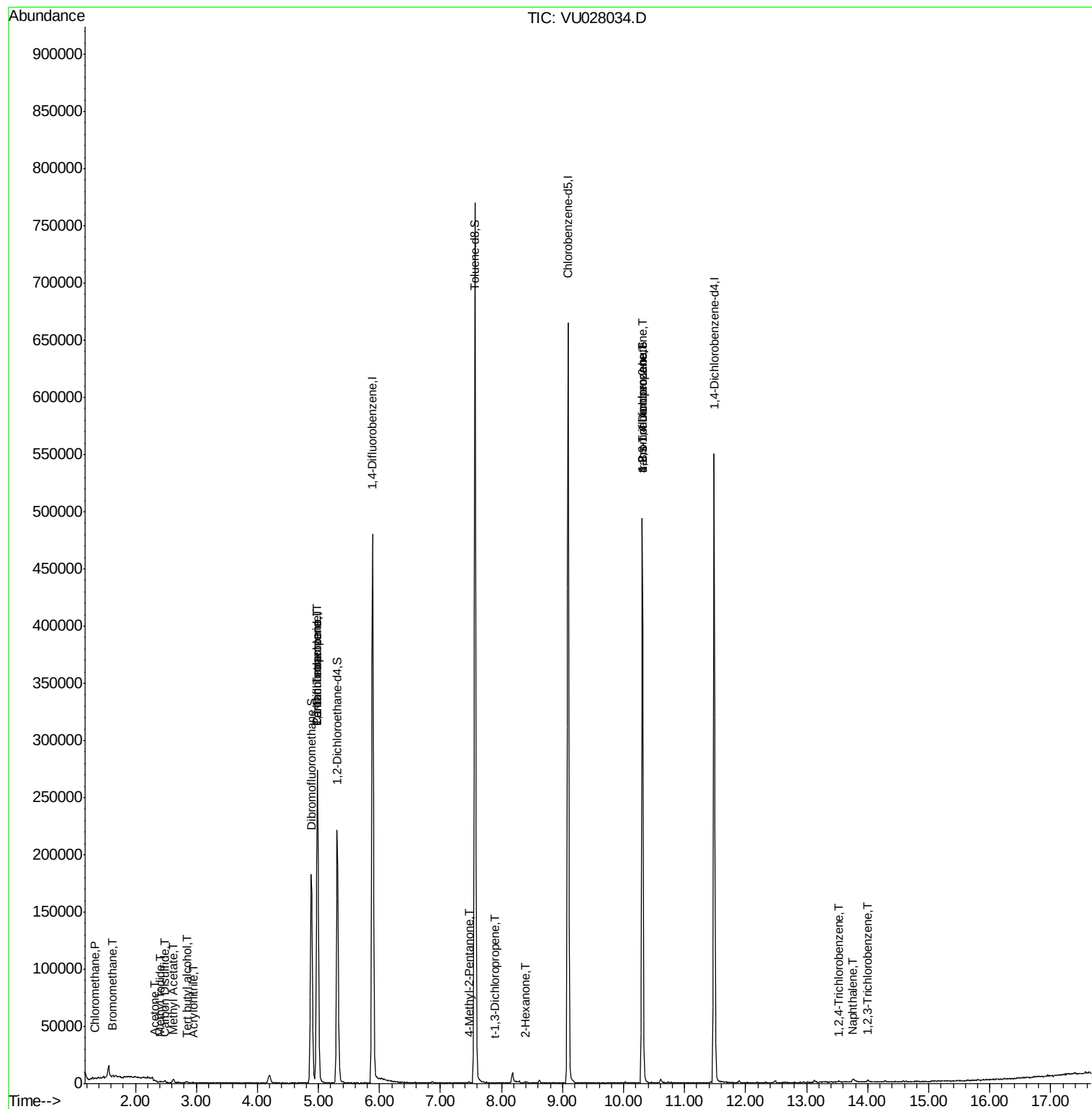
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	712	0.228	ug/l	97
5) Bromomethane	1.63	94	624	0.603	ug/l	89
10) Methyl Iodide	2.42	142	394	7.930	ug/l #	87
11) Tert butyl alcohol	2.84	59	751	0.940	ug/l #	73
13) Acrolein	2.19	56	99	Below Cal	#	15
15) Acrylonitrile	2.95	53	671	0.342	ug/l #	47
16) Acetone	2.32	43	911	0.486	ug/l #	61
17) Carbon Disulfide	2.48	76	1500	0.216	ug/l #	85
18) Methyl Acetate	2.62	43	4532	0.880	ug/l	95
31) Cyclohexane	4.98	56	5148	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	18025	4.433	ug/l #	49
38) Carbon Tetrachloride	4.98	117	19752	5.481	ug/l #	16
51) 4-Methyl-2-Pentanone	7.47	43	1265	0.203	ug/l #	65
53) t-1,3-Dichloropropene	7.90	75	119	1.142	ug/l #	43
59) 2-Hexanone	8.38	43	1287	0.267	ug/l	87
76) 1,2,3-Trichloropropane	10.31	75	85420	22.593	ug/l #	34
81) trans-1,4-Dichloro-2-buten	10.31	75	85420	56.377	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	654	0.886	ug/l #	74
95) Naphthalene	13.76	128	4645	0.229	ug/l #	83
96) 1,2,3-Trichlorobenzene	14.00	180	975	0.319	ug/l #	85

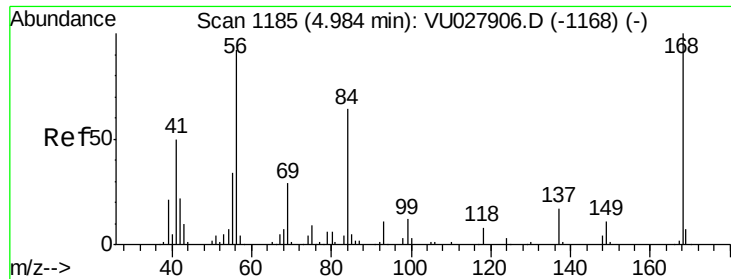
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU028034.D

Acq: 09 Nov 2018 11:07

Instrument :

MSVOA_U

ClientSampleId :

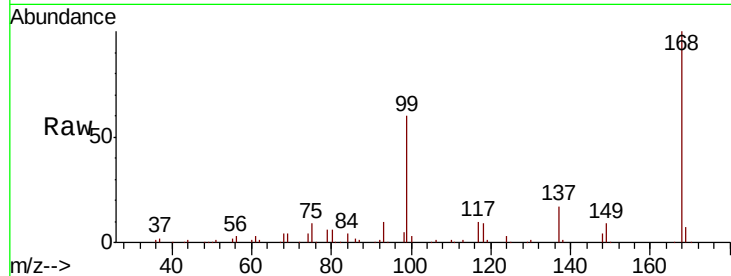
VU1109WBL01

Tot Ion:168 Resp: 203062

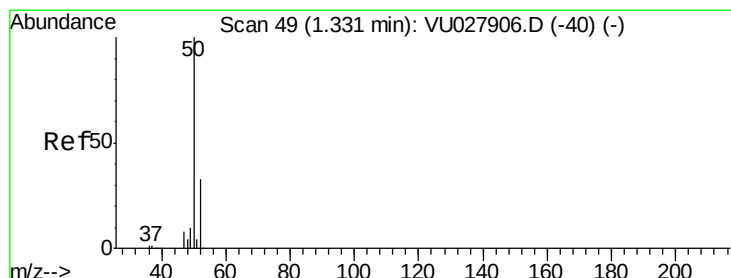
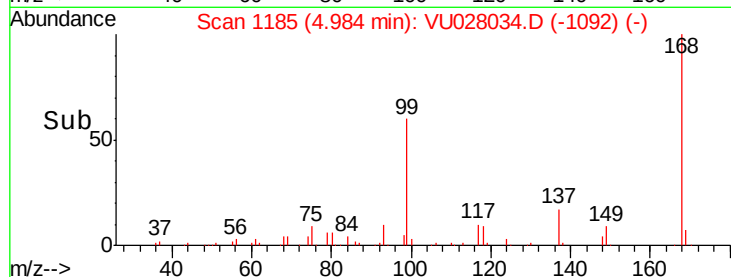
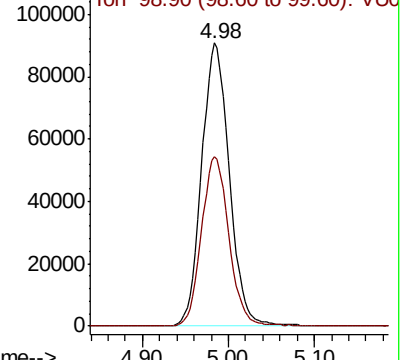
Ion Ratio Lower Upper

168 100

99 60.1 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)



#3

Chloromethane

Concen: 0.228 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028034.D

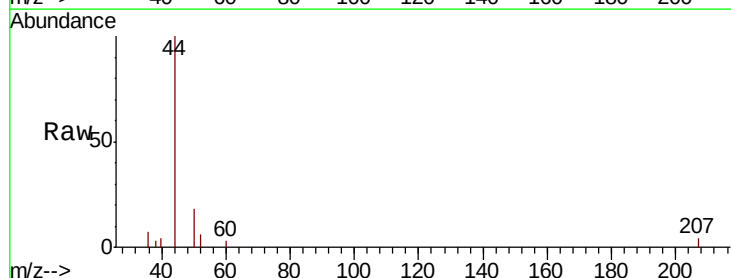
Acq: 09 Nov 2018 11:07

Tgt Ion: 50 Resp: 712

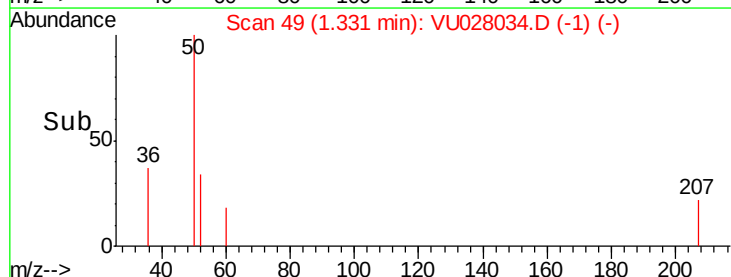
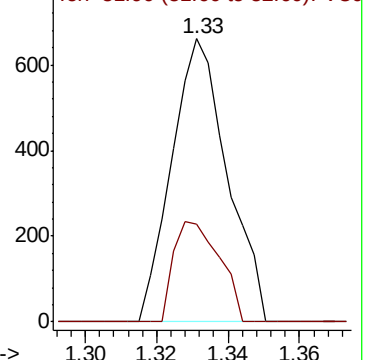
Ion Ratio Lower Upper

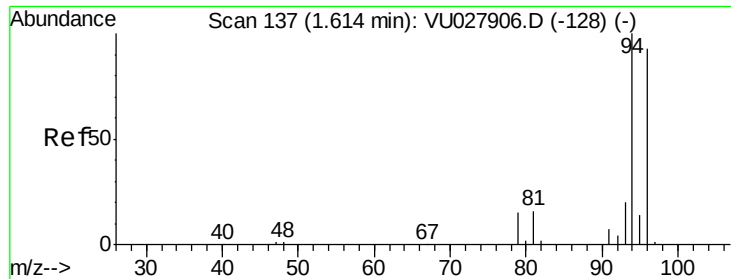
50 100

52 34.3 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU027906.D (-40) (-)





#5

Bromomethane

Concen: 0.603 ug/l

RT: 1.63 min Scan# 142

Delta R.T. 0.02 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

Instrument :

MSVOA_U

ClientSampleId :

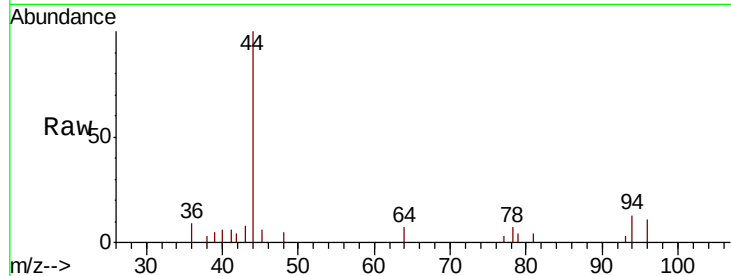
VU1109WBL01

Tot Ion: 94 Resp: 624

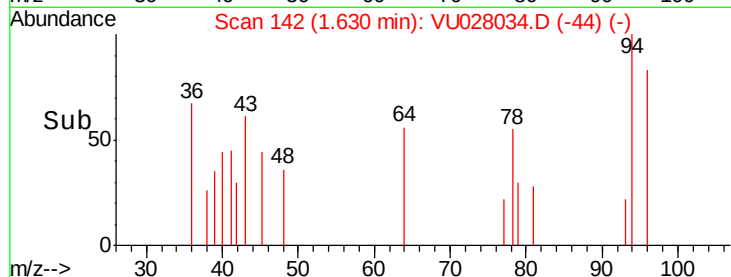
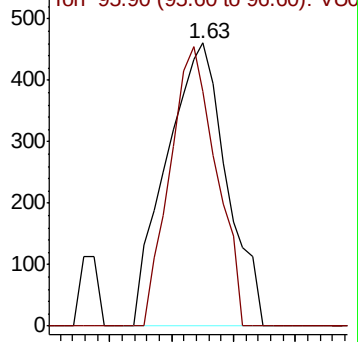
Ion Ratio Lower Upper

94 100

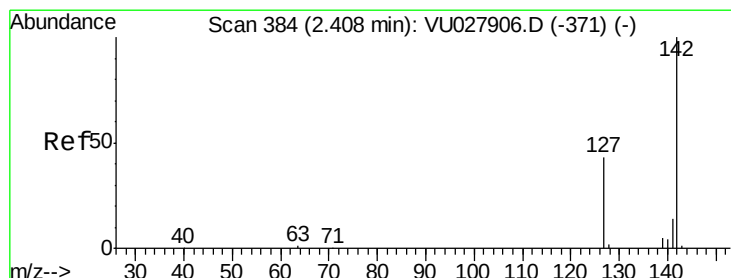
96 82.9 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VU027906.D (-128) (-)



Time-->



#10

Methyl Iodide

Concen: 7.930 ug/l

RT: 2.42 min Scan# 387

Delta R.T. 0.01 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

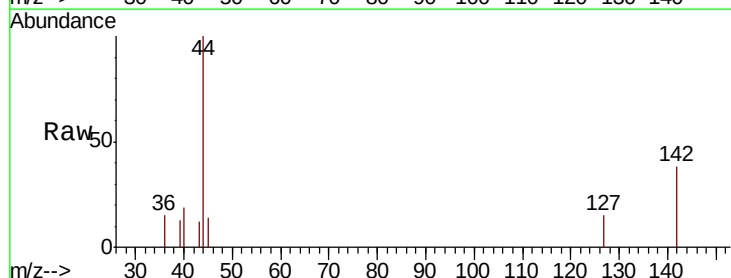
Tgt Ion: 142 Resp: 394

Ion Ratio Lower Upper

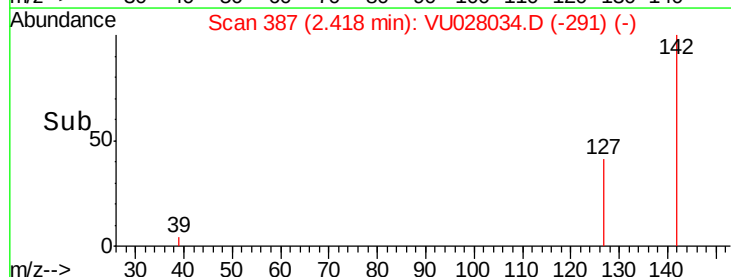
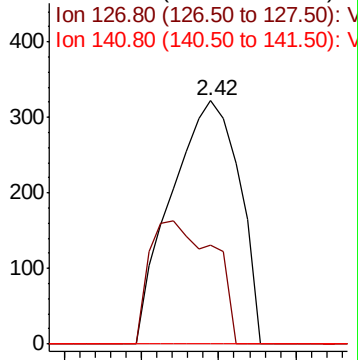
142 100

127 47.2 35.2 52.8

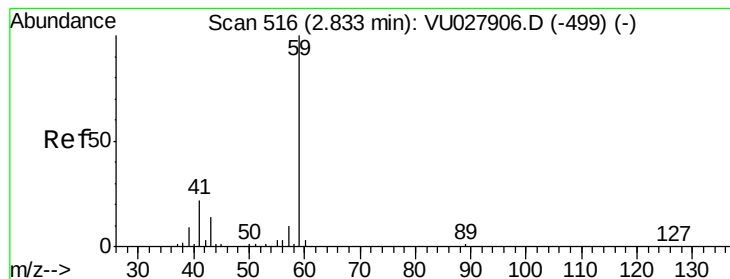
141 0.0 11.8 17.8#



Abundance Ion 141.80 (141.50 to 142.50): VU027906.D (-371) (-)



Time-->

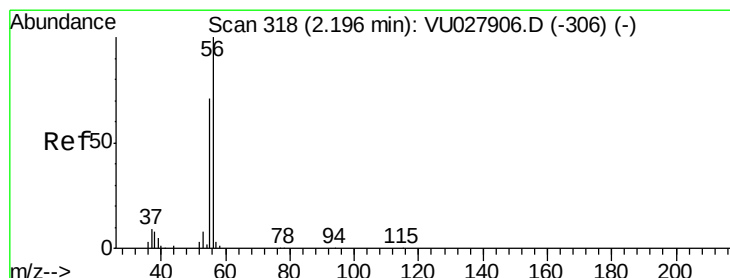
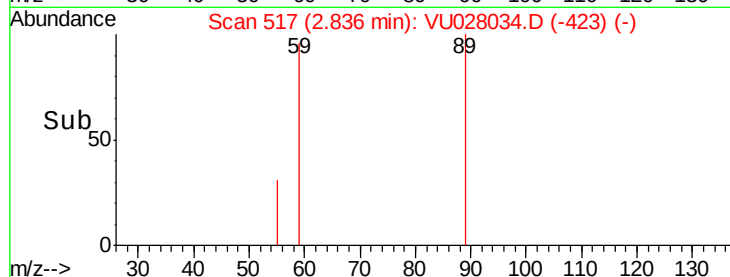
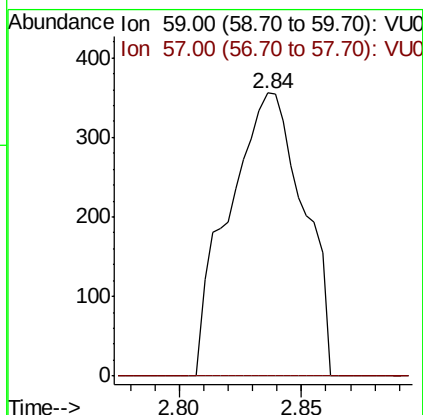
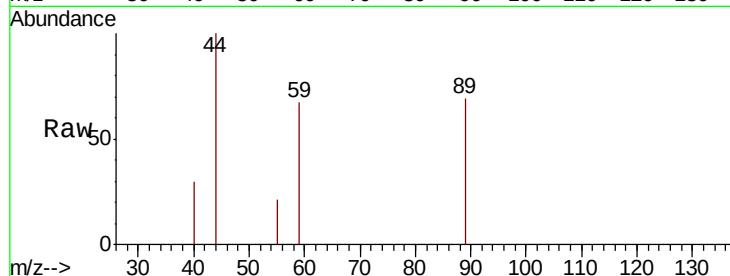


#11

Tert butyl alcohol
 Concen: 0.940 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VU028034.D
 Acq: 09 Nov 2018 11:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBL01

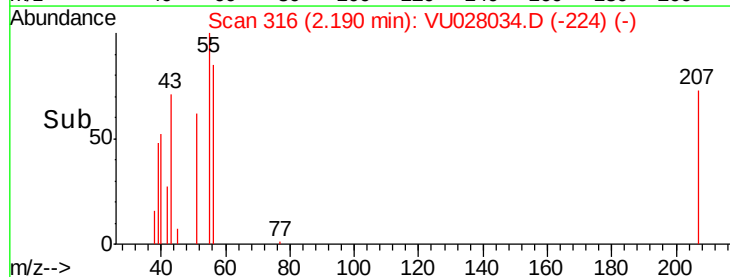
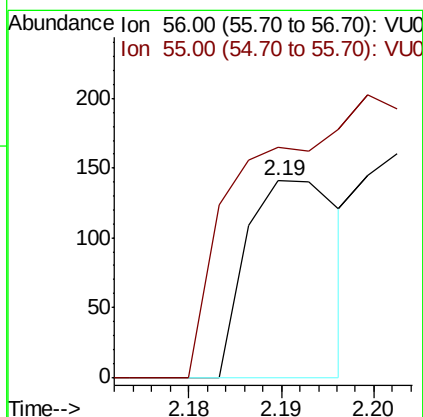
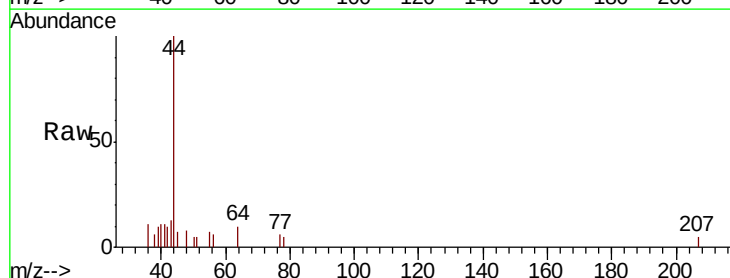
Tot Ion: 59 Resp: 751
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

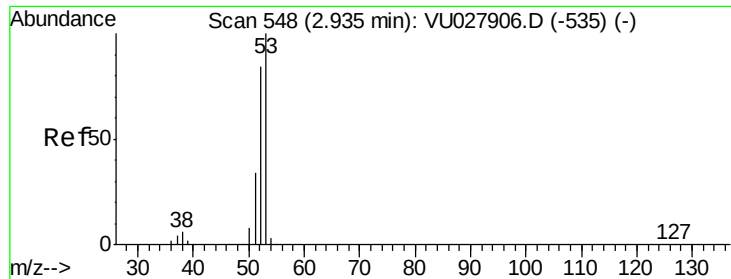


#13

Acrolein
 Concen: Below Cal
 RT: 2.19 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VU028034.D
 Acq: 09 Nov 2018 11:07

Tgt Ion: 56 Resp: 99
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.2 84.4#





#15

Acrylonitrile

Concen: 0.342 ug/l

RT: 2.95 min Scan# 551

Delta R.T. 0.01 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBL01

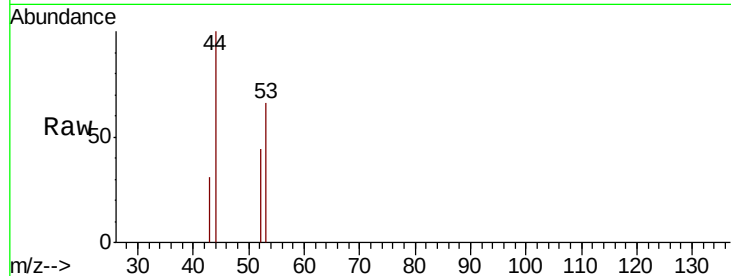
Tot Ion: 53 Resp: 671

Ion Ratio Lower Upper

53 100

52 37.4 66.2 99.2#

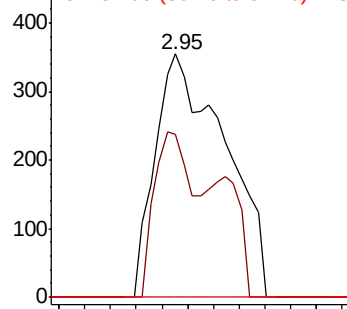
51 0.0 27.0 40.4#



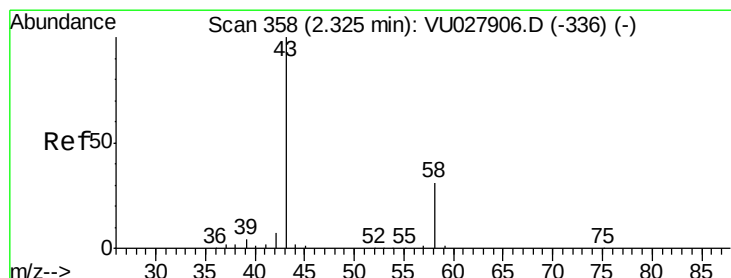
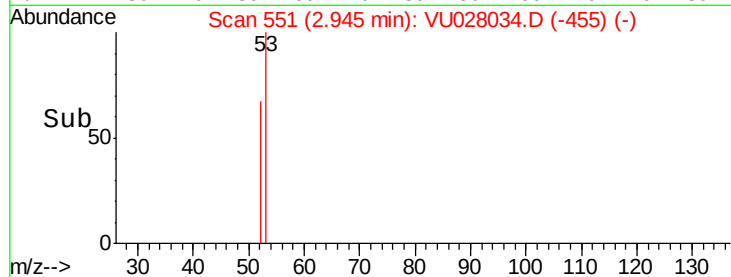
Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0



Time--> 2.90 2.95 3.00



#16

Acetone

Concen: 0.486 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028034.D

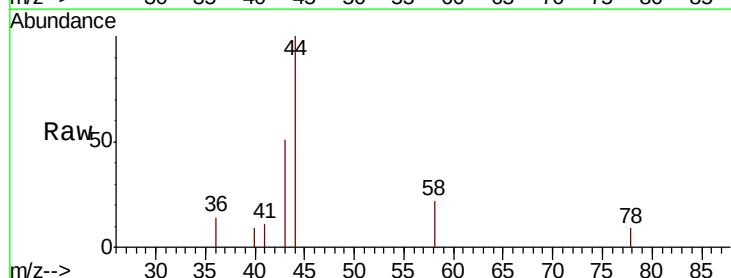
Acq: 09 Nov 2018 11:07

Tgt Ion: 43 Resp: 911

Ion Ratio Lower Upper

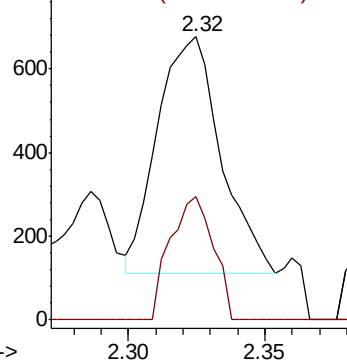
43 100

58 52.4 24.6 37.0#

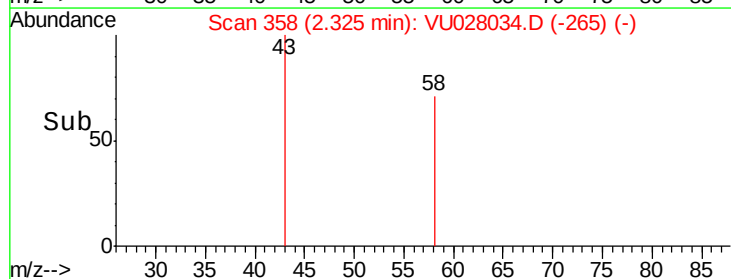


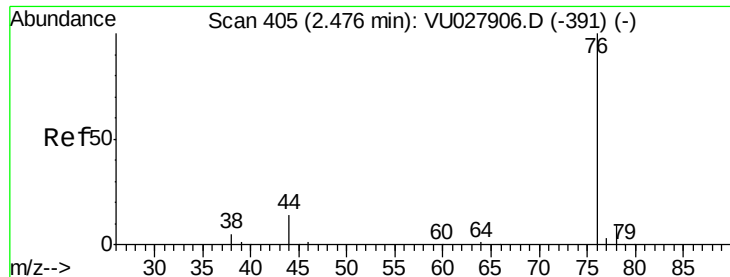
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time--> 2.30 2.35





#17

Carbon Disulfide

Concen: 0.216 ug/l

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

Instrument :

MSVOA_U

ClientSampleId :

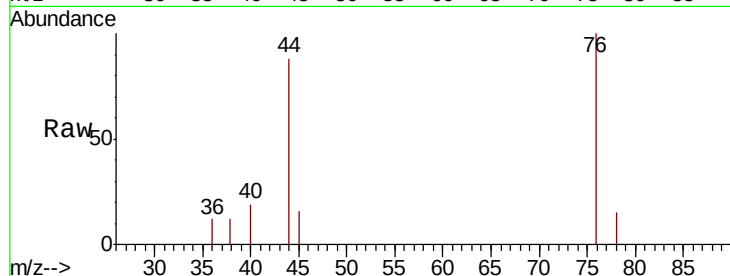
VU1109WBL01

Tot Ion: 76 Resp: 1500

Ion Ratio Lower Upper

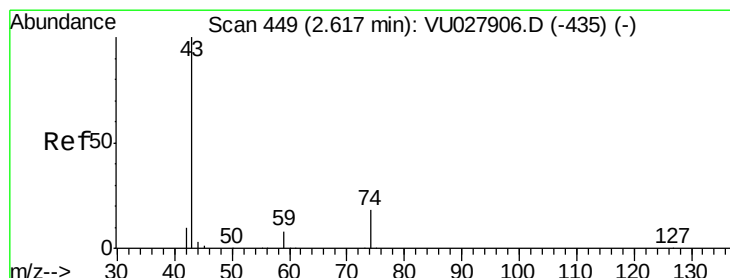
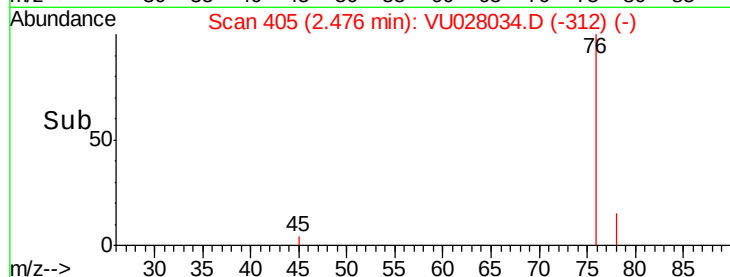
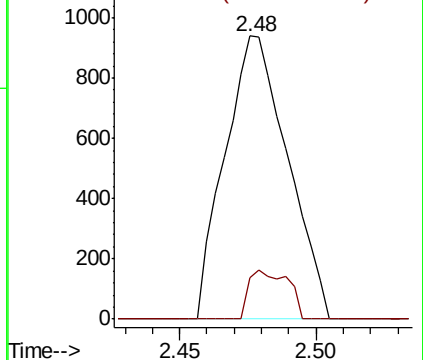
76 100

78 14.8 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VU028034.D (-312) (-)

Ion 77.90 (77.60 to 78.60): VU028034.D (-312) (-)



#18

Methyl Acetate

Concen: 0.880 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU028034.D

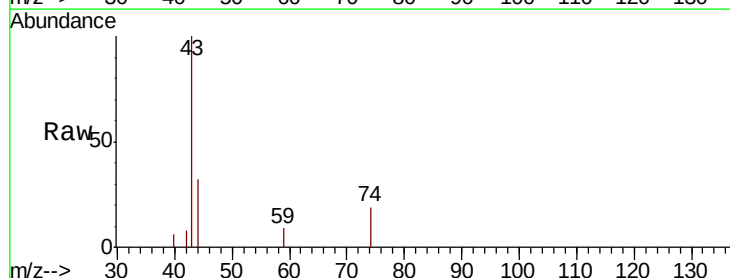
Acq: 09 Nov 2018 11:07

Tgt Ion: 43 Resp: 4532

Ion Ratio Lower Upper

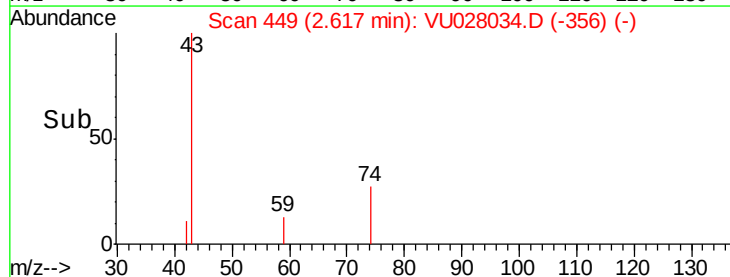
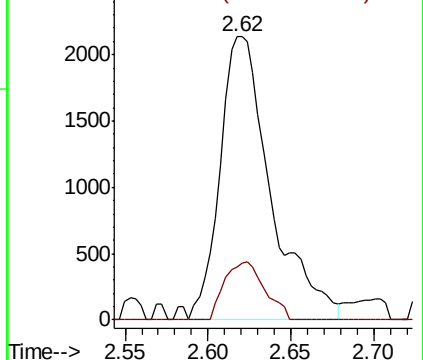
43 100

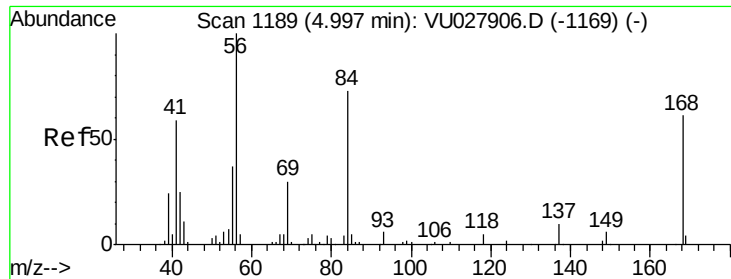
74 16.2 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU028034.D (-356) (-)

Ion 74.00 (73.70 to 74.70): VU028034.D (-356) (-)

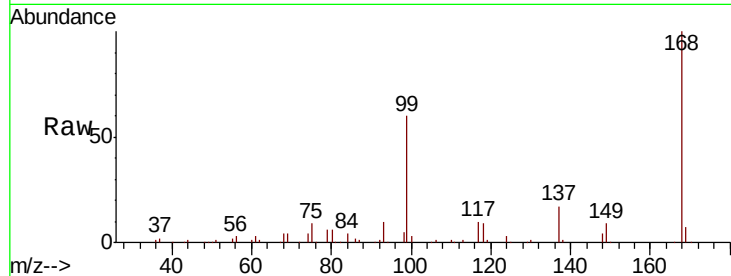




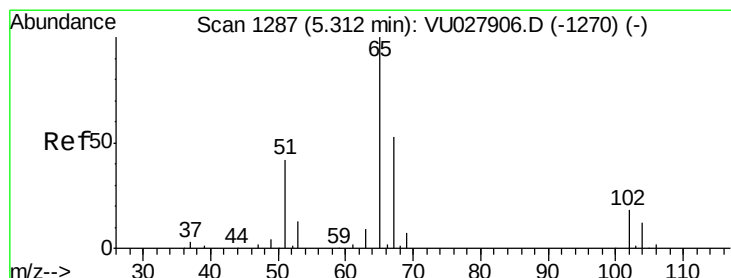
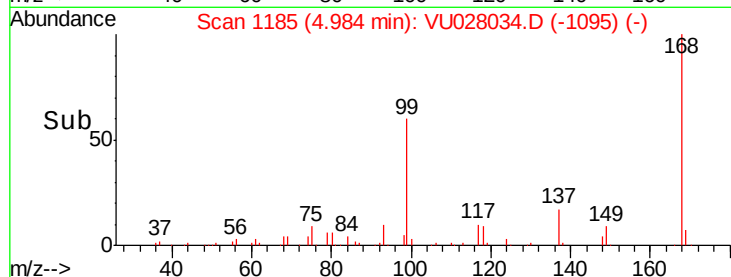
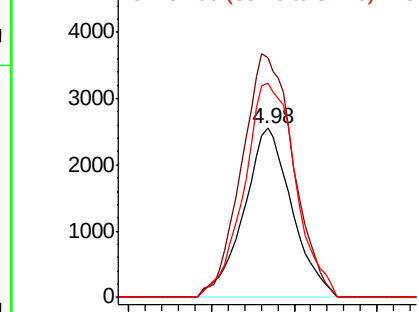
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028034.D
Acq: 09 Nov 2018 11:07

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBL01

Tot Ion: 56 Resp: 5148
Ion Ratio Lower Upper
56 100
69 141.3 23.7 35.5#
84 126.3 58.2 87.4#

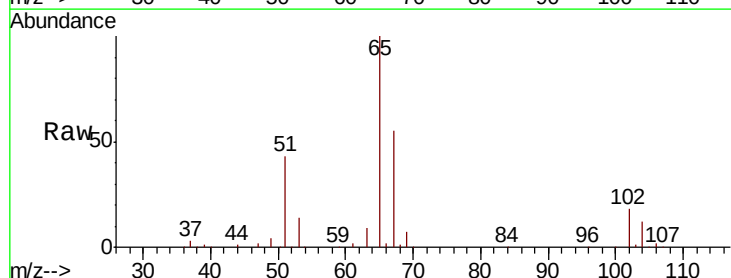


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

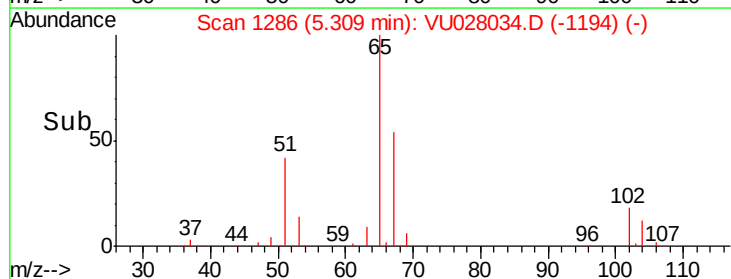
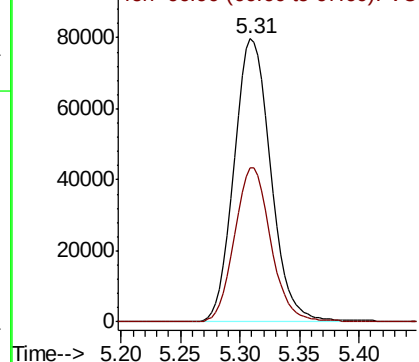


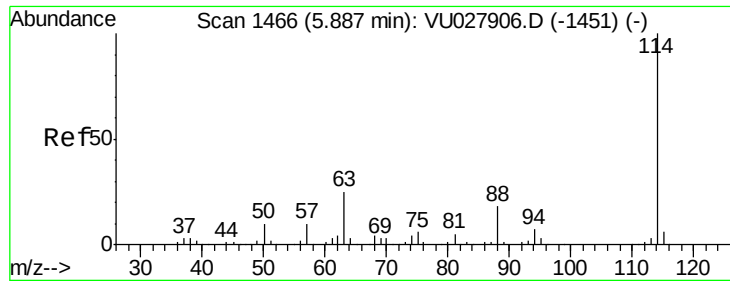
#33
1,2-Dichloroethane-d4
Concen: 56.518 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028034.D
Acq: 09 Nov 2018 11:07

Tgt Ion: 65 Resp: 170628
Ion Ratio Lower Upper
65 100
67 53.9 0.0 109.0



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

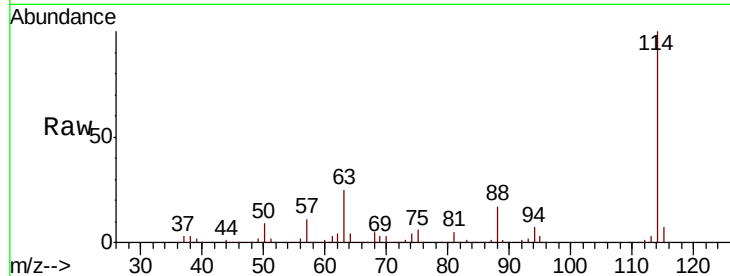




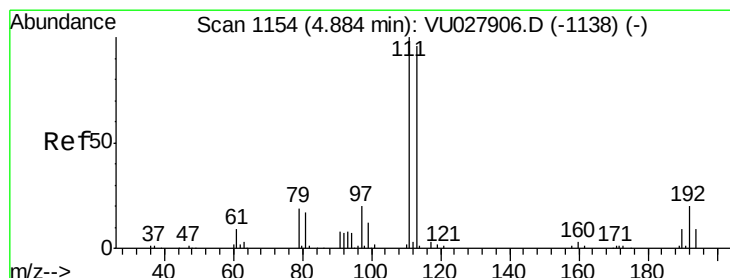
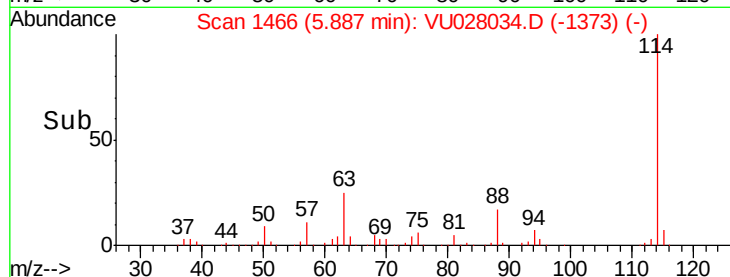
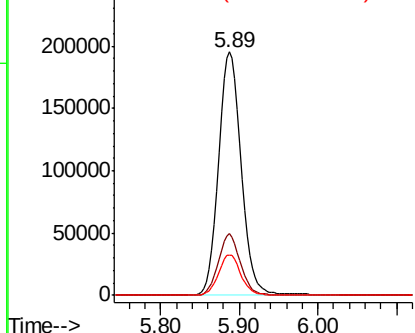
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028034.D
 Acq: 09 Nov 2018 11:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBL01

Tot Ion:114 Resp: 388244
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 50.8
 88 16.7 0.0 35.8

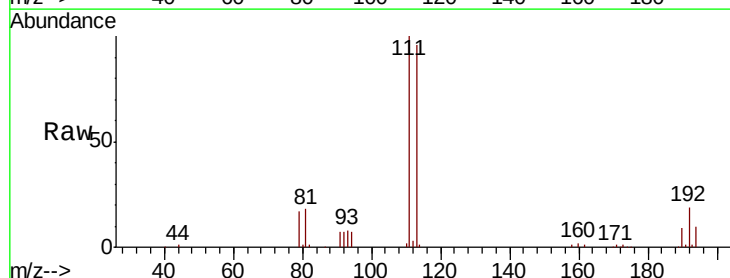


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

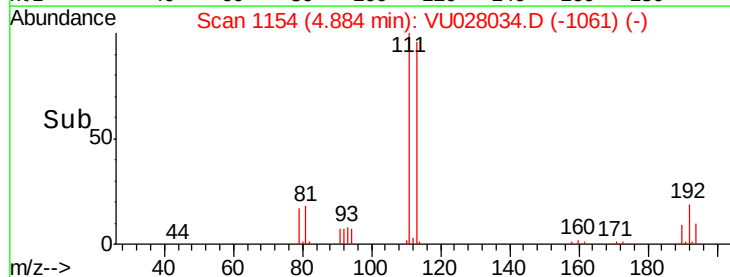
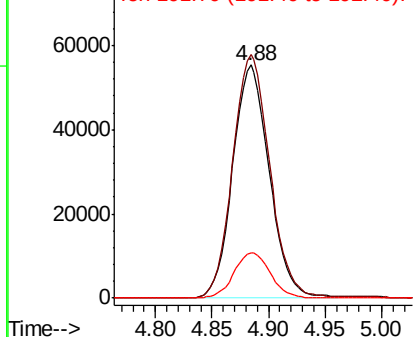


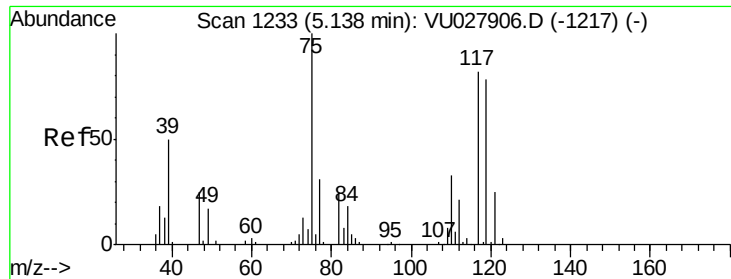
#35
 Dibromofluoromethane
 Concen: 51.054 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028034.D
 Acq: 09 Nov 2018 11:07

Tgt Ion:113 Resp: 124976
 Ion Ratio Lower Upper
 113 100
 111 105.4 83.0 124.6
 192 19.3 15.6 23.4



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: 4.433 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBL01

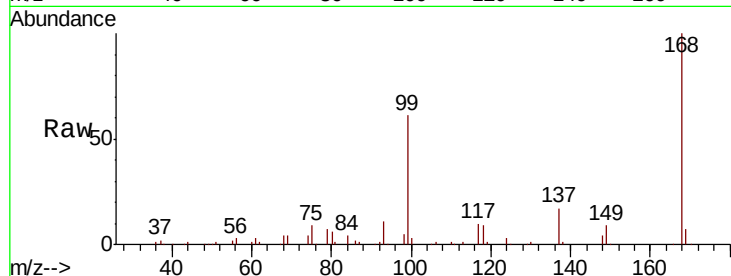
Tot Ion: 75 Resp: 18025

Ion Ratio Lower Upper

75 100

110 6.6 16.5 49.5#

77 0.0 24.9 37.3#

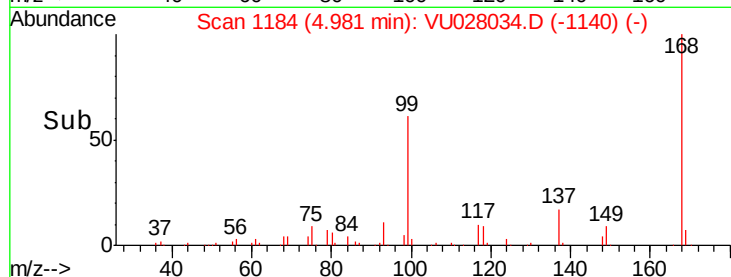


Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-1217) (-)

Ion 109.90 (109.60 to 110.60): VU027906.D (-1217) (-)

Ion 76.90 (76.60 to 77.60): VU027906.D (-1217) (-)

Time-->

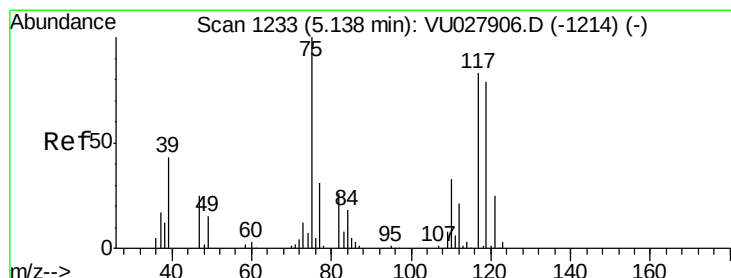


Abundance Ion 74.90 (74.60 to 75.60): VU028034.D (-1140) (-)

Ion 109.90 (109.60 to 110.60): VU028034.D (-1140) (-)

Ion 76.90 (76.60 to 77.60): VU028034.D (-1140) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.481 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

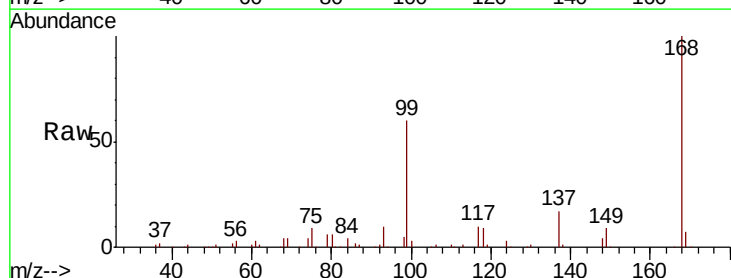
Tgt Ion: 117 Resp: 19752

Ion Ratio Lower Upper

117 100

119 5.1 76.0 114.0#

121 0.0 24.5 36.7#

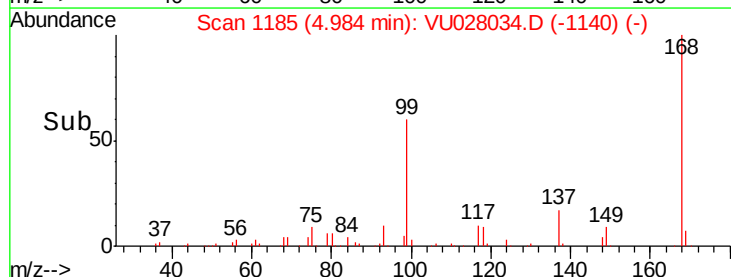


Abundance Ion 116.80 (116.50 to 117.50): VU027906.D (-1214) (-)

Ion 118.80 (118.50 to 119.50): VU027906.D (-1214) (-)

Ion 120.80 (120.50 to 121.50): VU027906.D (-1214) (-)

Time-->

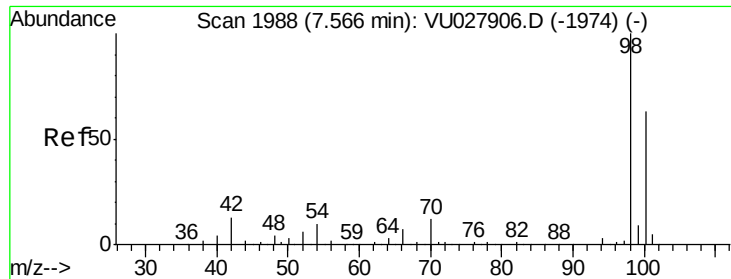


Abundance Ion 116.80 (116.50 to 117.50): VU028034.D (-1140) (-)

Ion 118.80 (118.50 to 119.50): VU028034.D (-1140) (-)

Ion 120.80 (120.50 to 121.50): VU028034.D (-1140) (-)

Time-->



#50

Toluene-d8

Concen: 52.885 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

Instrument :

MSVOA_U

ClientSampleId :

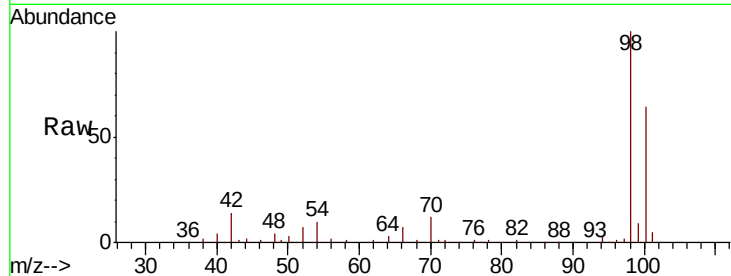
VU1109WBL01

Tot Ion: 98 Resp: 500086

Ion Ratio Lower Upper

98 100

100 63.4 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU027906.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU027906.D (-1974) (-)

7.57

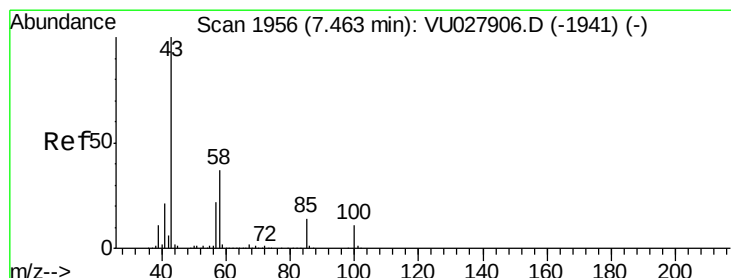
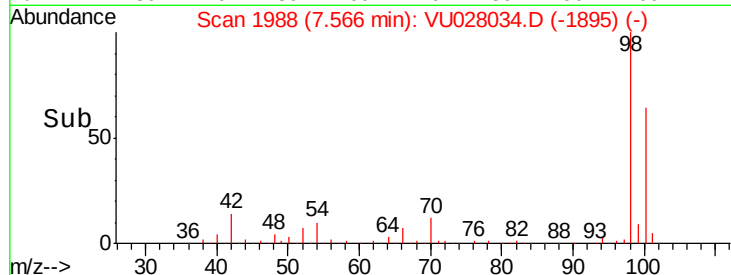
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.203 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU028034.D

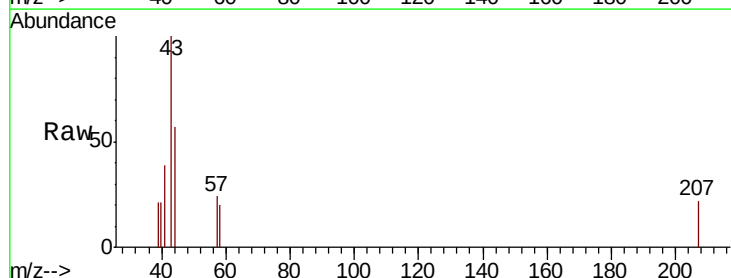
Acq: 09 Nov 2018 11:07

Tgt Ion: 43 Resp: 1265

Ion Ratio Lower Upper

43 100

58 16.0 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-1941) (-)

7.47

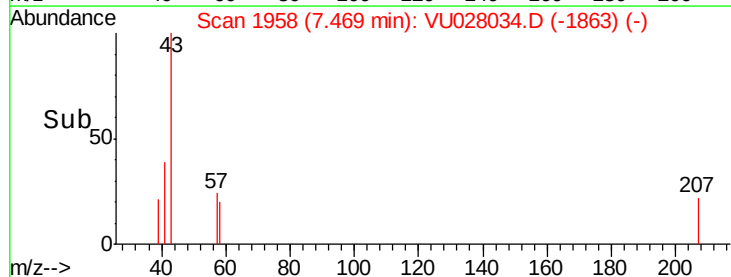
600

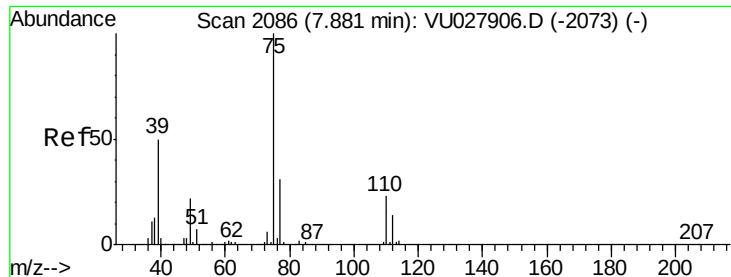
400

200

0

Time-->

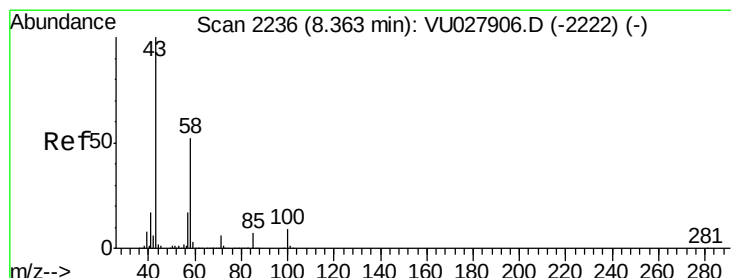
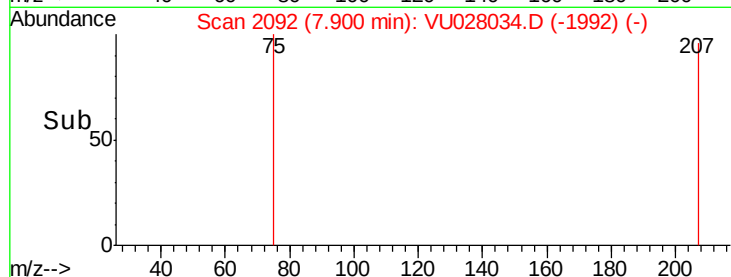
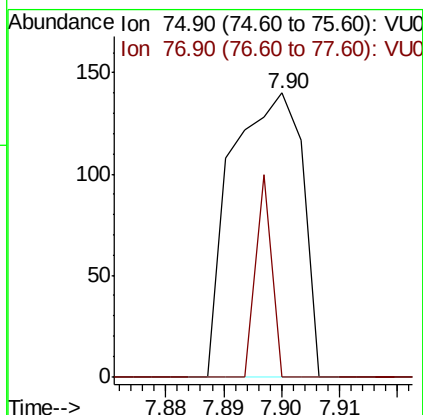
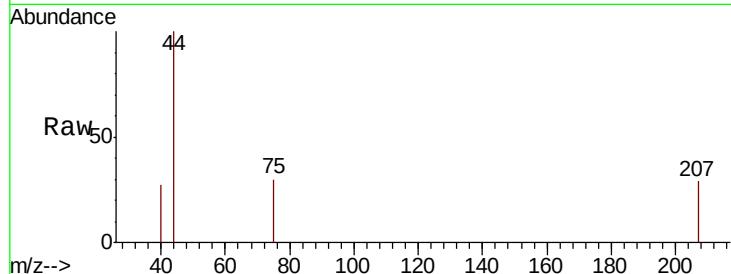




#53
t-1,3-Dichloropropene
Concen: 1.142 ug/l
RT: 7.90 min Scan# 2092
Delta R.T. 0.02 min
Lab File: VU028034.D
Acq: 09 Nov 2018 11:07

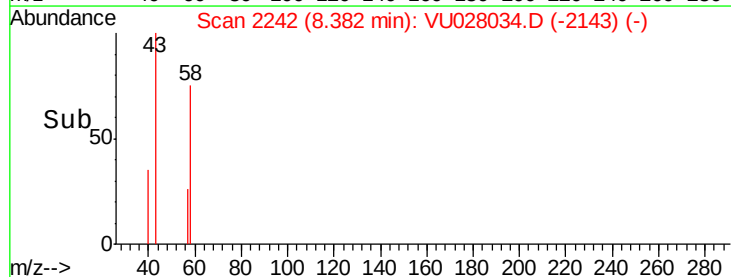
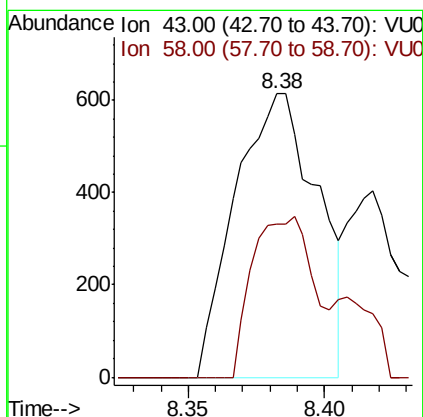
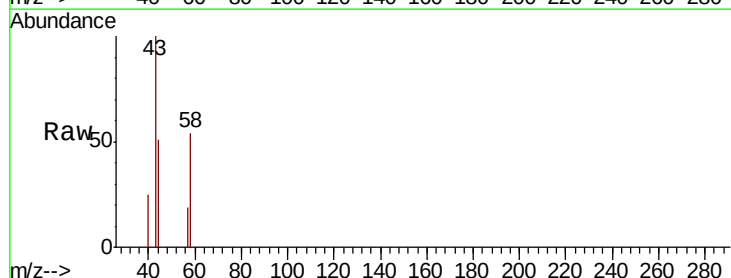
Instrument :
MSVOA_U
ClientSampleId :
VU1109WBL01

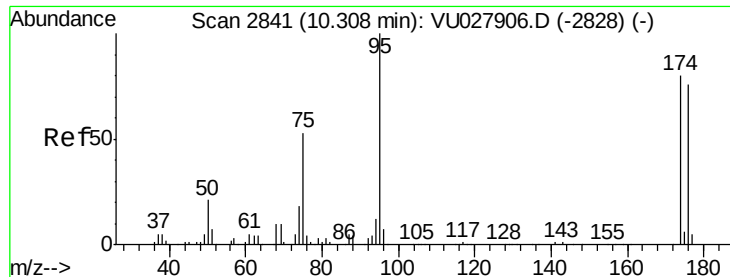
Tot Ion: 75 Resp: 119
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#



#59
2-Hexanone
Concen: 0.267 ug/l
RT: 8.38 min Scan# 2242
Delta R.T. 0.02 min
Lab File: VU028034.D
Acq: 09 Nov 2018 11:07

Tgt Ion: 43 Resp: 1287
Ion Ratio Lower Upper
43 100
58 42.5 25.8 77.3





#62

4-Bromofluorobenzene

Concen: 46.936 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBL01

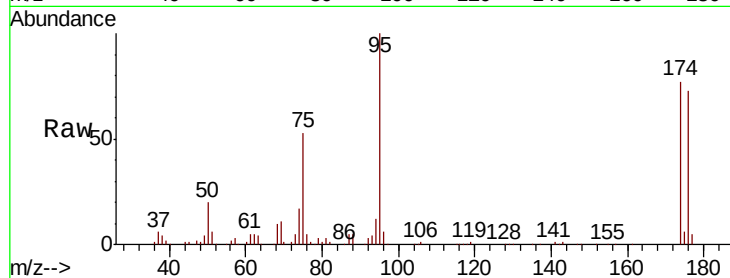
Tot Ion: 95 Resp: 163705

Ion Ratio Lower Upper

95 100

174 76.0 0.0 156.4

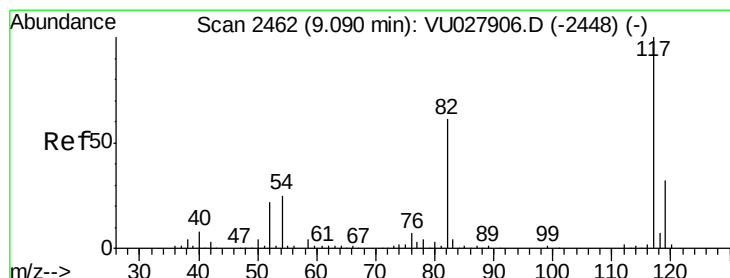
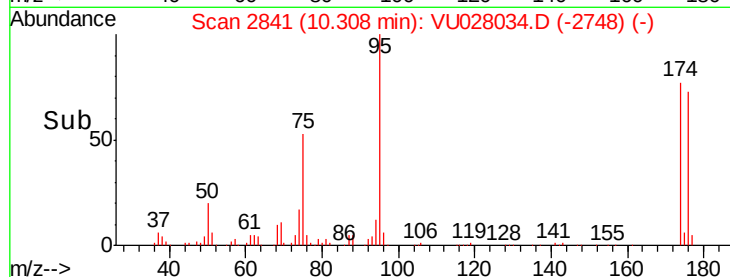
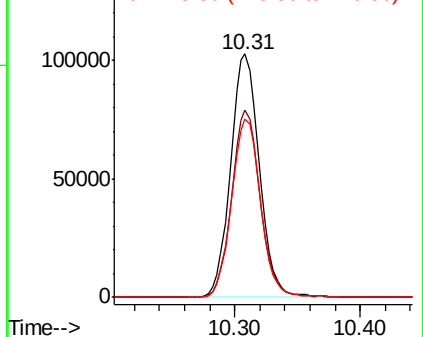
176 74.0 0.0 150.8



Abundance Ion 94.90 (94.60 to 95.60): VU027906.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU027906.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU027906.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

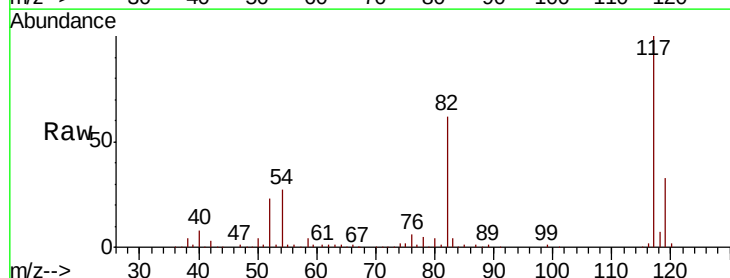
Tgt Ion: 117 Resp: 340065

Ion Ratio Lower Upper

117 100

82 61.7 48.6 73.0

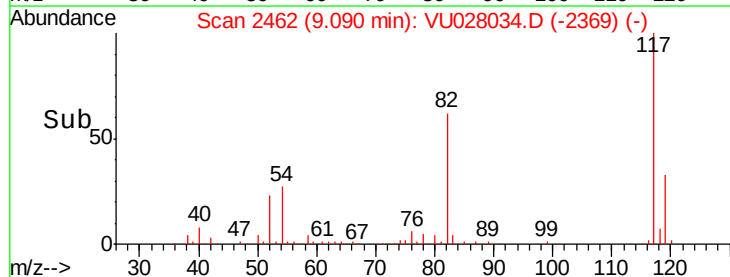
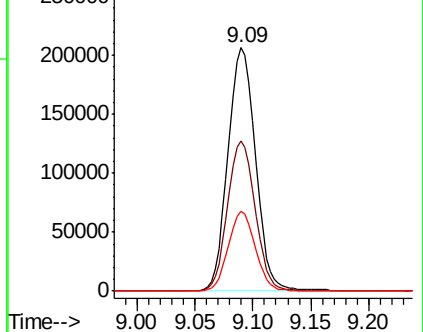
119 32.5 25.8 38.8

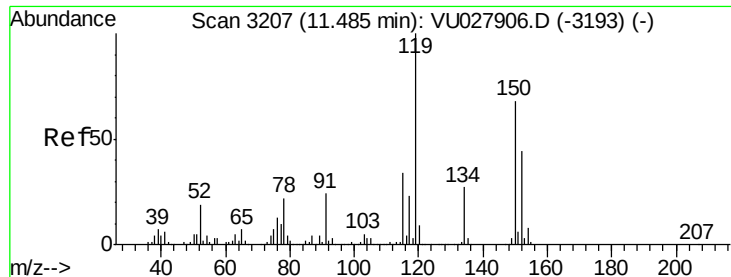


Abundance Ion 116.90 (116.60 to 117.60): VU027906.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU027906.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU027906.D (-2448) (-)



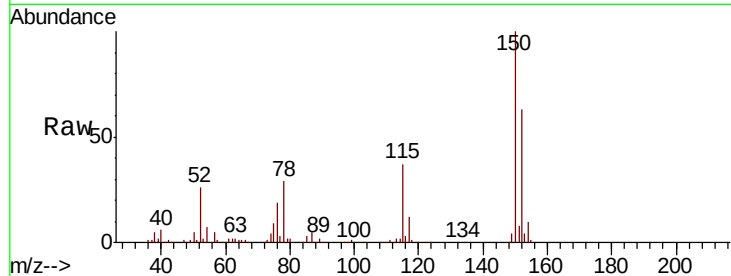


#72

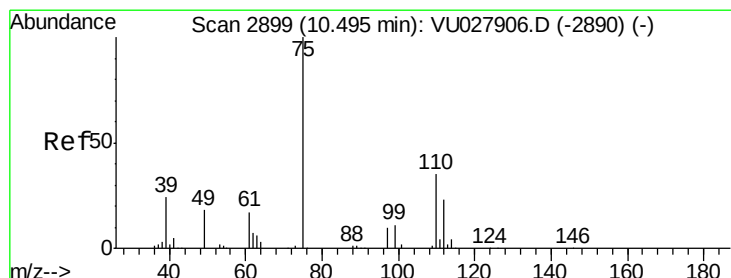
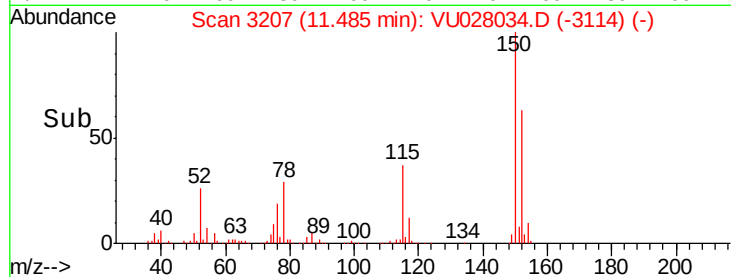
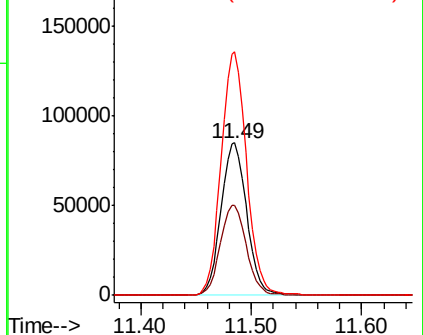
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU028034.D
Acq: 09 Nov 2018 11:07

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBL01

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.7	43.0	129.0
150	156.9	0.0	349.4



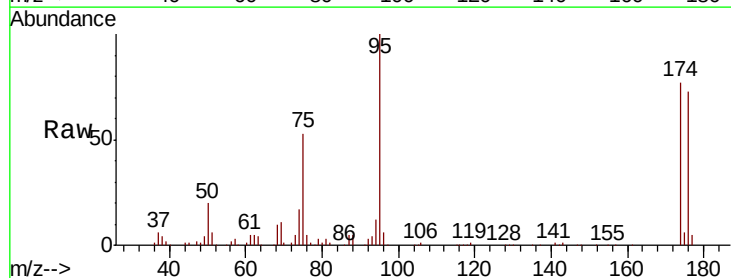
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



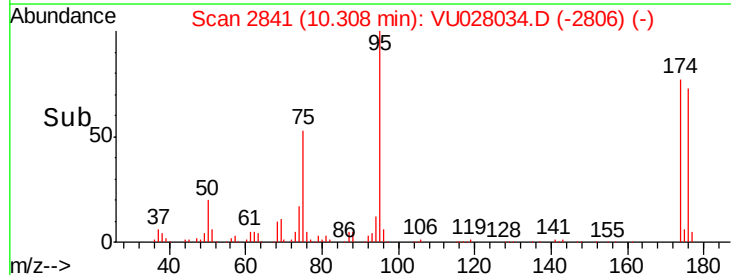
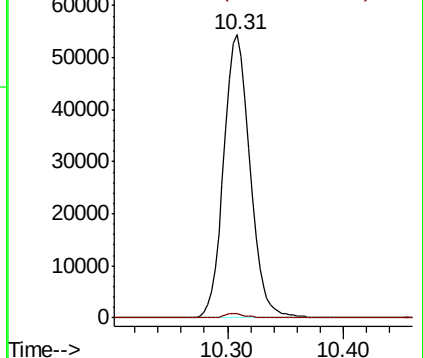
#76

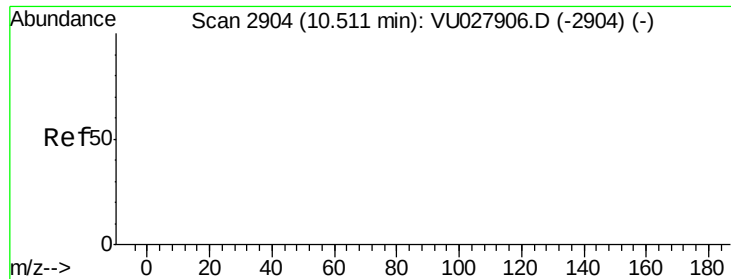
1,2,3-Trichloropropane
Concen: 22.593 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU028034.D
Acq: 09 Nov 2018 11:07

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	21.6	64.6#



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: 56.377 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBL01

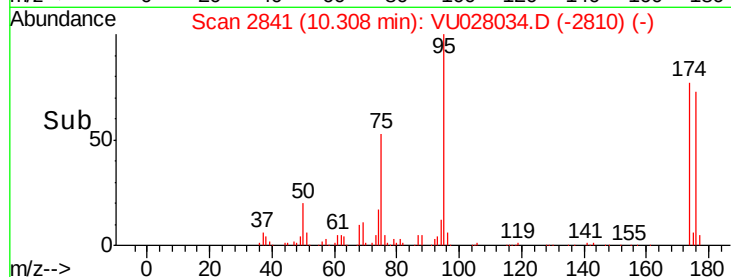
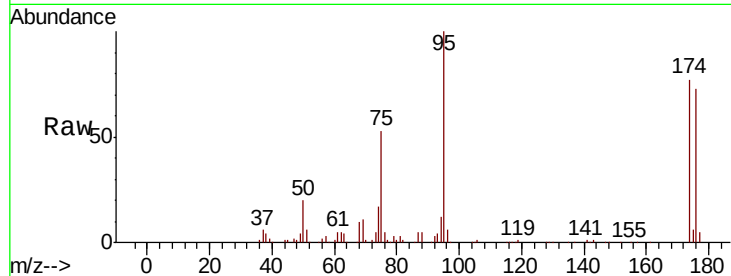
Tot Ion: 75 Resp: 85420

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

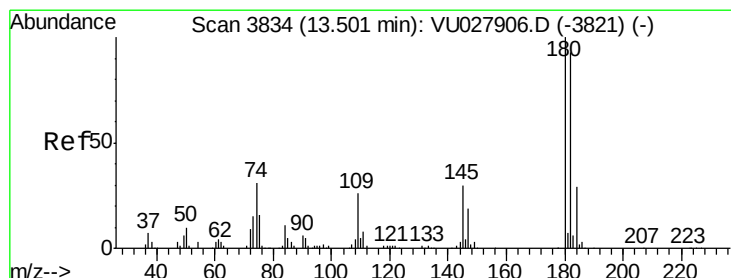
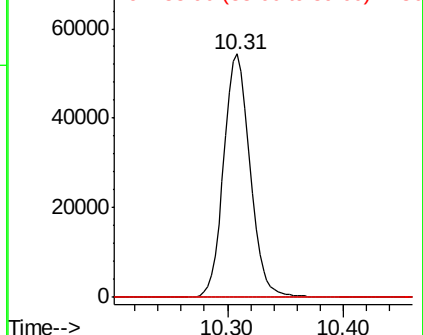
89 0.0 0.0 0.0



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



#93

1,2,4-Trichlorobenzene

Concen: 0.886 ug/l

RT: 13.52 min Scan# 3840

Delta R.T. 0.02 min

Lab File: VU028034.D

Acq: 09 Nov 2018 11:07

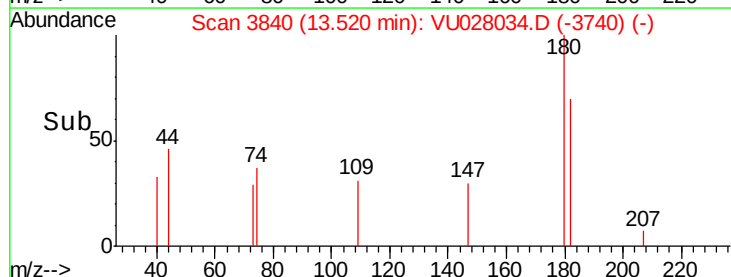
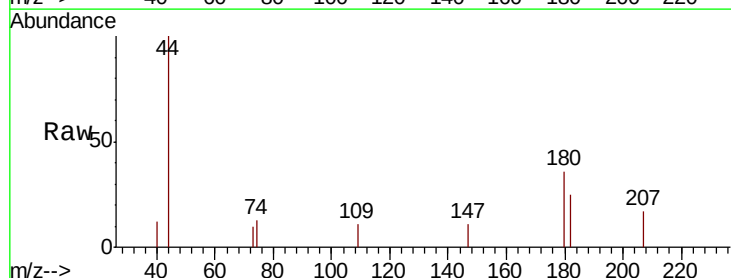
Tgt Ion: 180 Resp: 654

Ion Ratio Lower Upper

180 100

182 120.6 48.4 145.2

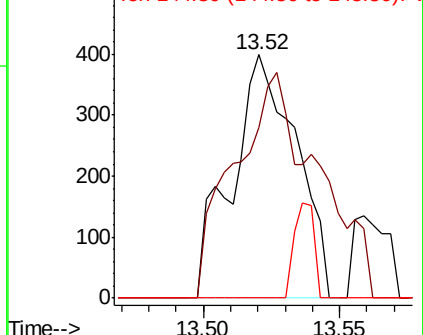
145 12.2 14.9 44.5#

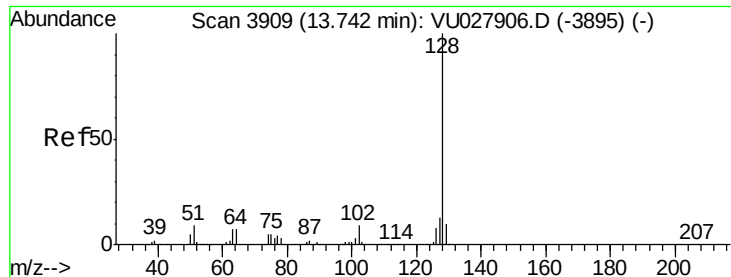


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

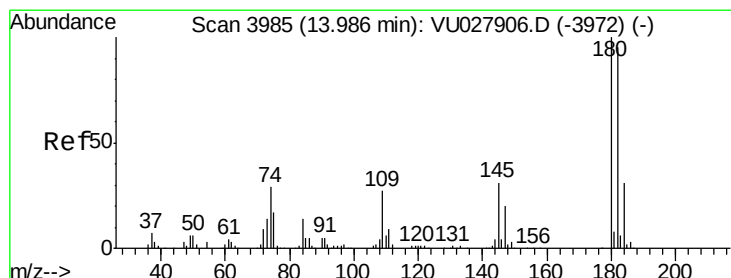
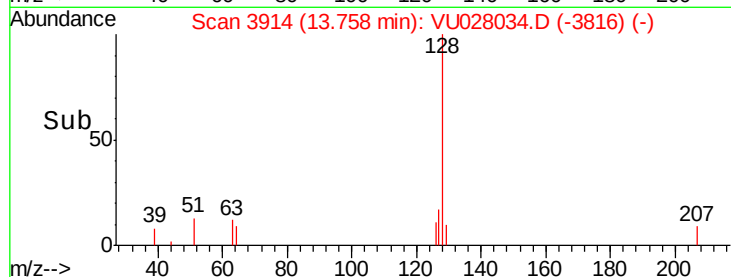
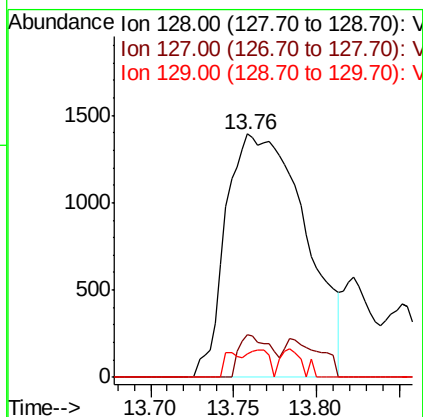
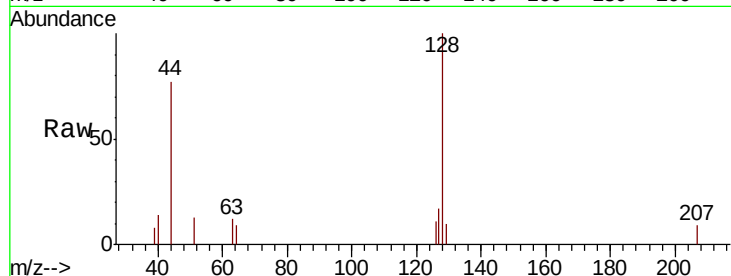




#95
Naphthalene
Concen: 0.229 ug/l
RT: 13.76 min Scan# 3914
Delta R.T. 0.02 min
Lab File: VU028034.D
Acq: 09 Nov 2018 11:07

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBL01

Tot Ion:128 Resp: 4645
Ion Ratio Lower Upper
128 100
127 7.0 10.4 15.6#
129 3.0 8.3 12.5#



#96
1,2,3-Trichlorobenzene
Concen: 0.319 ug/l
RT: 14.00 min Scan# 3988
Delta R.T. 0.01 min
Lab File: VU028034.D
Acq: 09 Nov 2018 11:07

Tgt Ion:180 Resp: 975
Ion Ratio Lower Upper
180 100
182 90.1 47.4 142.3
145 6.5 16.0 47.9#

