

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110218\
 Data File : VU027919.D
 Acq On : 02 Nov 2018 12:30
 Operator : MD/SY
 Sample : J5781-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TW-2

Quant Time: Nov 03 04:21:20 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	4.99	168	190572	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	338351	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	300585	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	127264	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	147938	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
35) Dibromofluoromethane	4.88	113	108471	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
50) Toluene-d8	7.57	98	431492	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
62) 4-Bromofluorobenzene	10.31	95	144800	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	

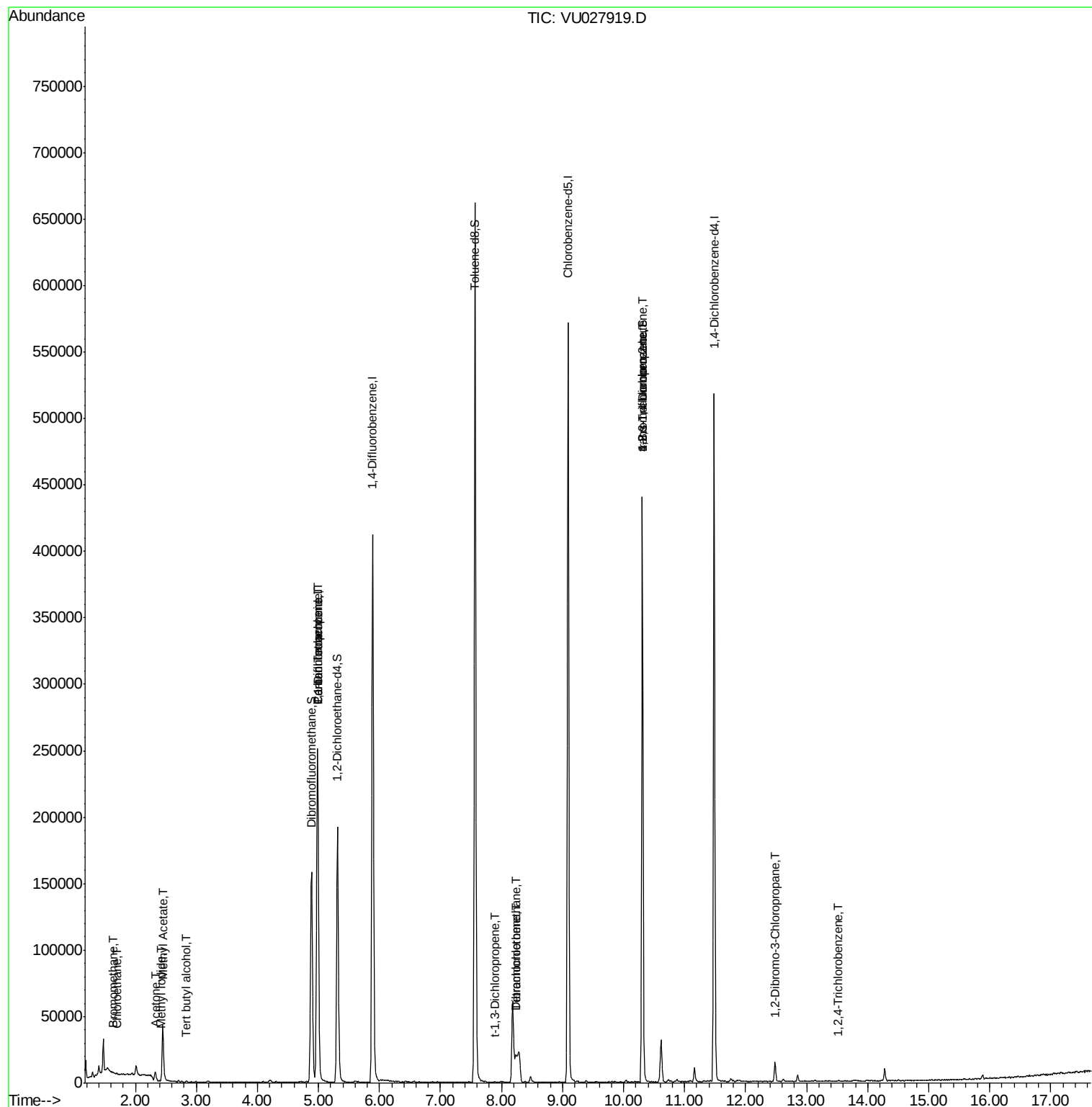
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	239	0.247	ug/l #	3
6) Chloroethane	1.68	64	339	0.202	ug/l	100
10) Methyl Iodide	2.42	142	252	7.876	ug/l #	72
11) Tert butyl alcohol	2.84	59	321	0.428	ug/l #	73
13) Acrolein	2.20	56	108	Below Cal	#	1
16) Acetone	2.32	43	6016	3.422	ug/l	94
18) Methyl Acetate	2.45	43	9901	2.047	ug/l #	58
31) Cyclohexane	4.98	56	4300	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	16682	4.708	ug/l #	49
38) Carbon Tetrachloride	4.99	117	19125	6.090	ug/l #	17
53) t-1,3-Dichloropropene	7.89	75	65	1.133	ug/l #	43
60) Dibromochloromethane	8.23	129	979	0.399	ug/l #	10
64) Tetrachloroethene	8.23	164	1186	0.608	ug/l #	74
76) 1,2,3-Trichloropropane	10.31	75	75413	21.664	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	75413	54.069	ug/l #	100
92) 1,2-Dibromo-3-Chloropropan	12.49	75	511	0.610	ug/l #	4
93) 1,2,4-Trichlorobenzene	13.52	180	185	0.746	ug/l #	80
95) Naphthalene	13.77	128	990	Below Cal	#	69

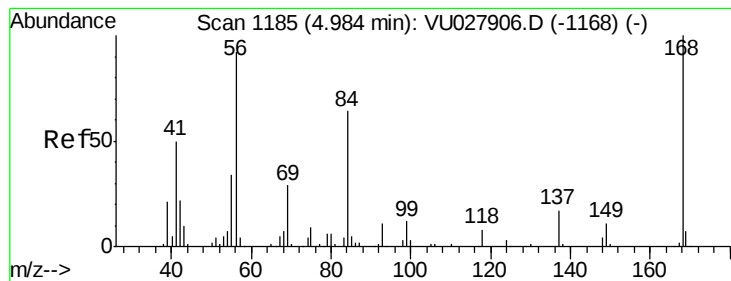
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

Instrument :

MSVOA_U

ClientSampleId :

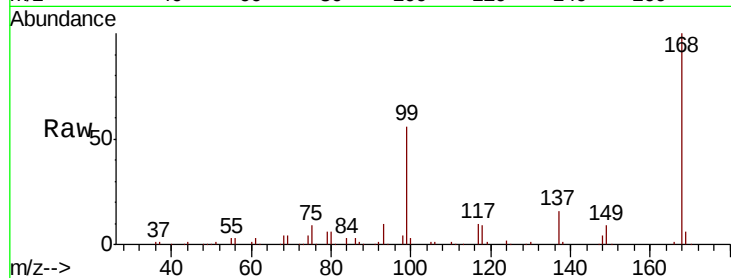
TW-2

Tot Ion:168 Resp: 190572

Ion Ratio Lower Upper

168 100

99 56.4 47.9 71.9



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

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.99

80000

60000

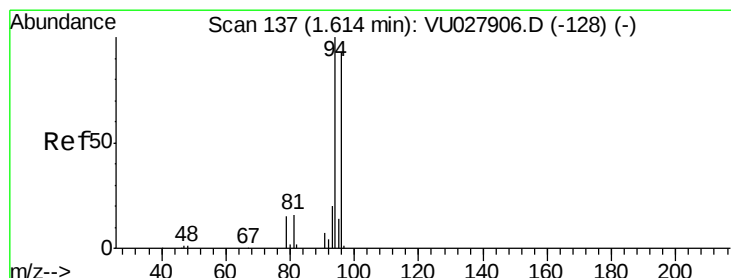
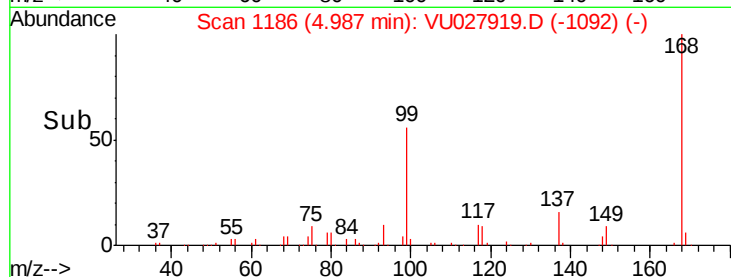
40000

20000

0

Time-->

4.90 4.95 5.00 5.05 5.10



#5

Bromomethane

Concen: 0.247 ug/l

RT: 1.63 min Scan# 143

Delta R.T. 0.02 min

Lab File: VU027919.D

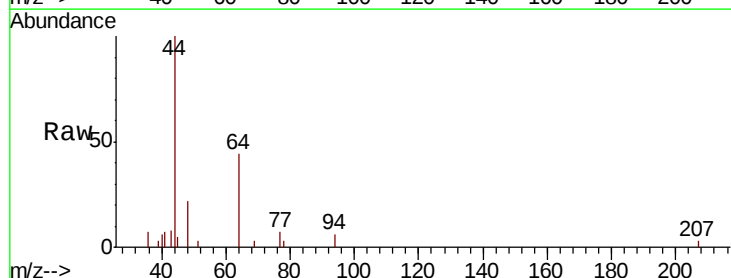
Acq: 02 Nov 2018 12:30

Tgt Ion: 94 Resp: 239

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



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

Ion 95.90 (95.60 to 96.60): VU027906.D (-128) (-)

1.63

200

150

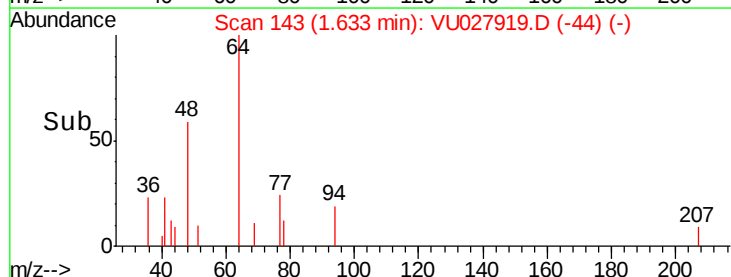
100

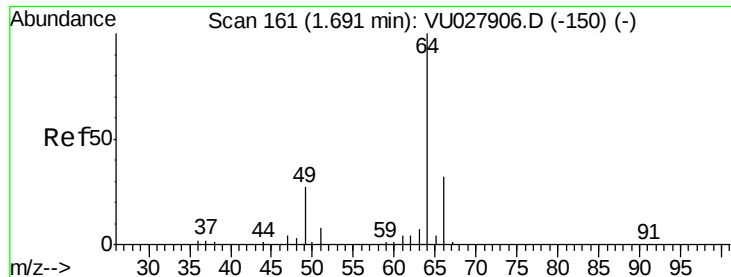
50

0

Time-->

1.62 1.64 1.66





#6

Chloroethane

Concen: 0.202 ug/l

RT: 1.68 min Scan# 159

Delta R.T. -0.01 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

Instrument :

MSVOA_U

ClientSampleId :

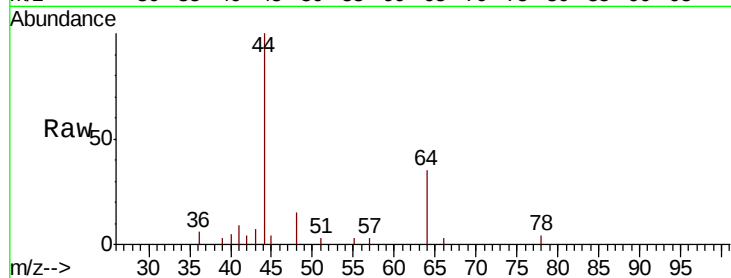
TW-2

Tot Ion: 64 Resp: 339

Ion Ratio Lower Upper

64 100

66 32.2 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VU027906.D (-150) (-)

Ion 65.90 (65.60 to 66.60): VU027906.D (-150) (-)

1.68

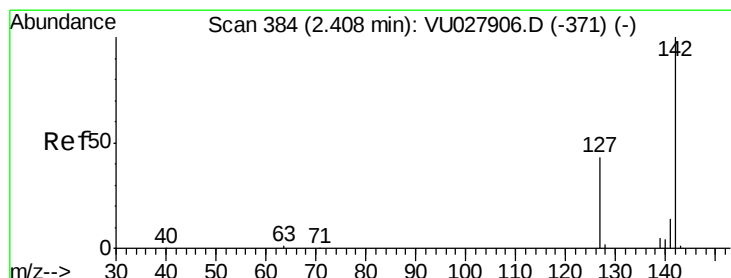
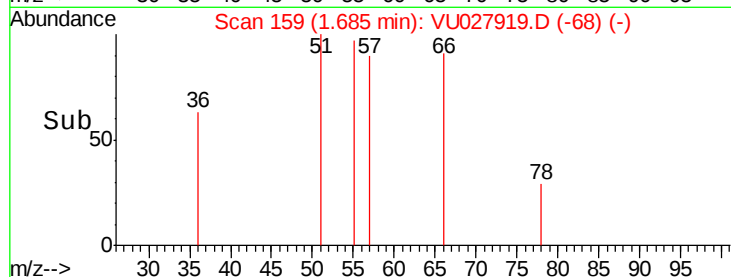
1000

500

0

1.66 1.68 1.70

Time-->



#10

Methyl Iodide

Concen: 7.876 ug/l

RT: 2.42 min Scan# 387

Delta R.T. 0.01 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

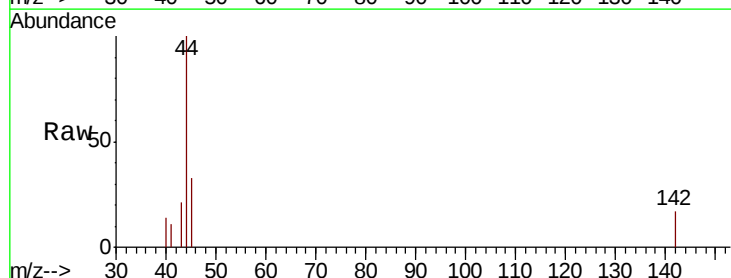
Tgt Ion: 142 Resp: 252

Ion Ratio Lower Upper

142 100

127 27.4 35.2 52.8#

141 0.0 11.8 17.8#



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

Ion 126.80 (126.50 to 127.50): VU027906.D (-371) (-)

Ion 140.80 (140.50 to 141.50): VU027906.D (-371) (-)

2.42

250

200

150

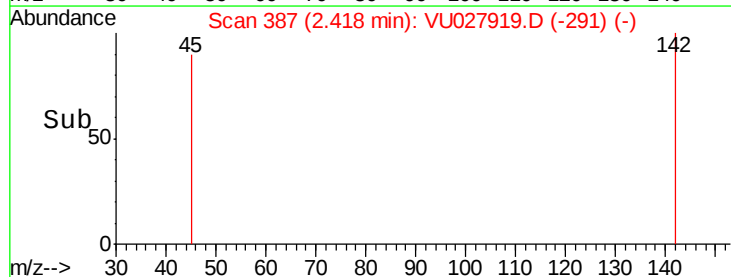
100

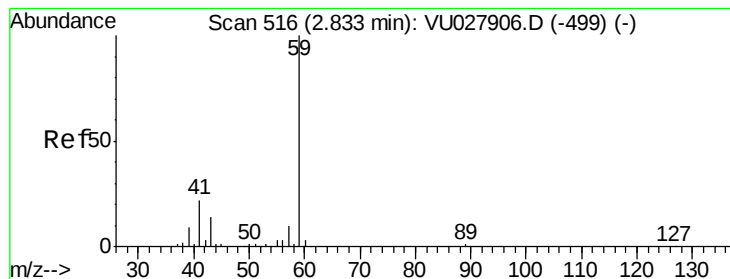
50

0

2.38 2.40 2.42 2.44

Time-->



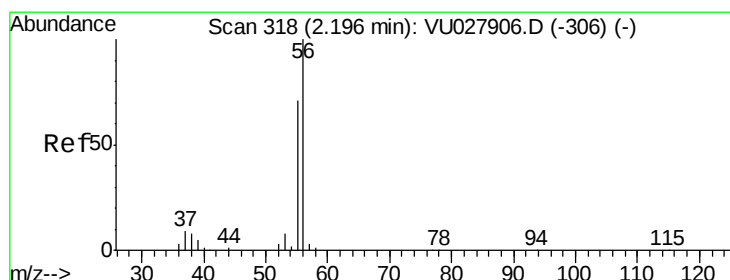
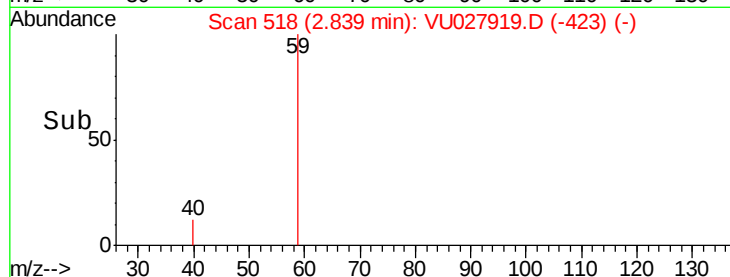
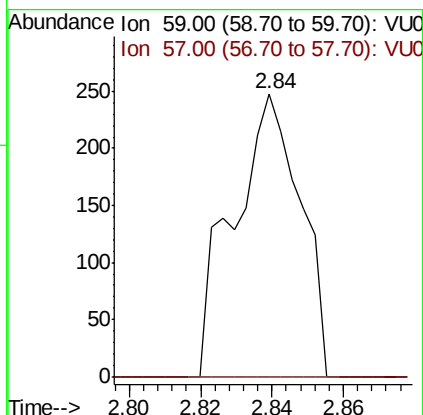
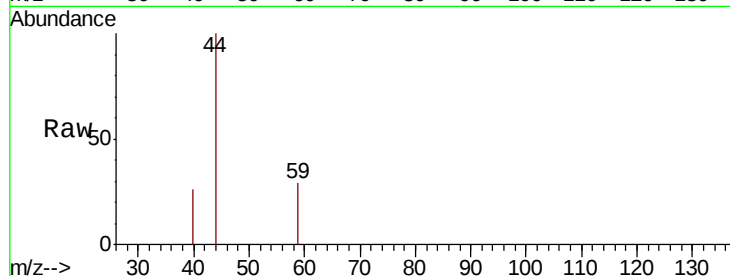


#11

Tert butyl alcohol
Concen: 0.428 ug/l
RT: 2.84 min Scan# 518
Delta R.T. 0.01 min
Lab File: VU027919.D
Acq: 02 Nov 2018 12:30

Instrument :
MSVOA_U
ClientSampled :
TW-2

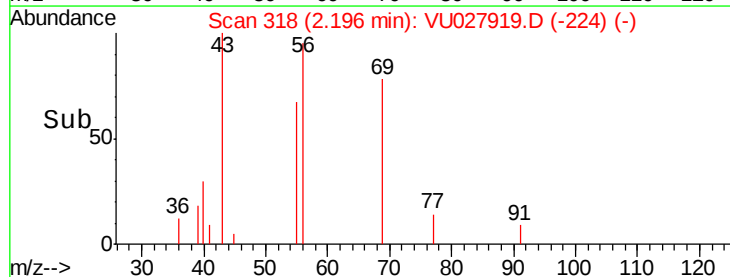
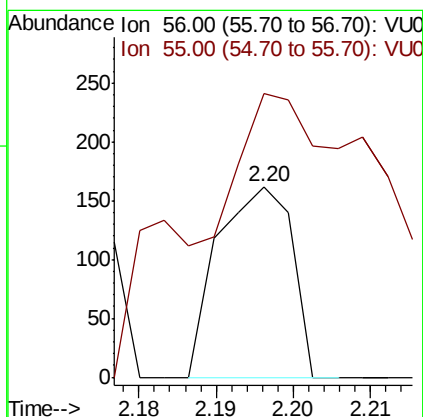
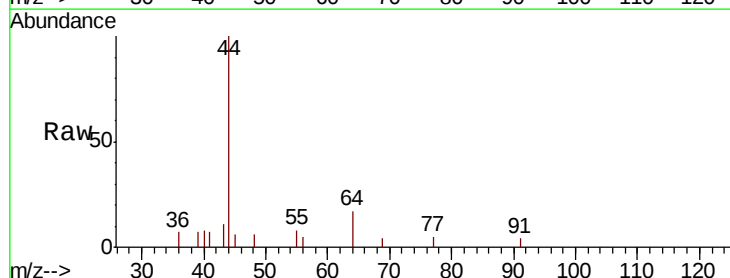
Tot Ion: 59 Resp: 321
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

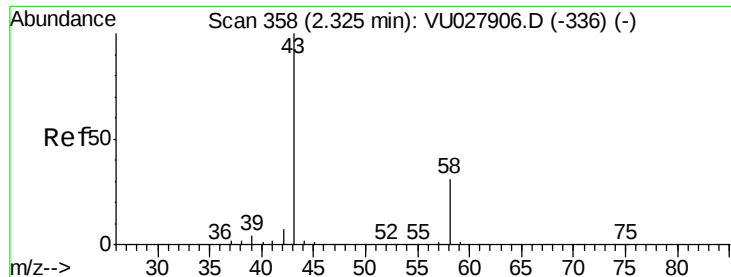


#13

Acrolein
Concen: Below Cal
RT: 2.20 min Scan# 318
Delta R.T. 0.00 min
Lab File: VU027919.D
Acq: 02 Nov 2018 12:30

Tgt Ion: 56 Resp: 108
Ion Ratio Lower Upper
56 100
55 398.1 56.2 84.4#





#16

Acetone

Concen: 3.422 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

Instrument :

MSVOA_U

ClientSampleId :

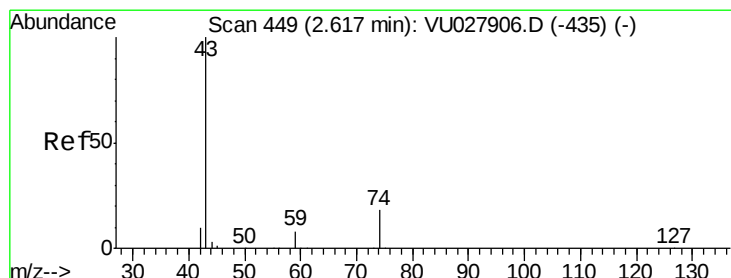
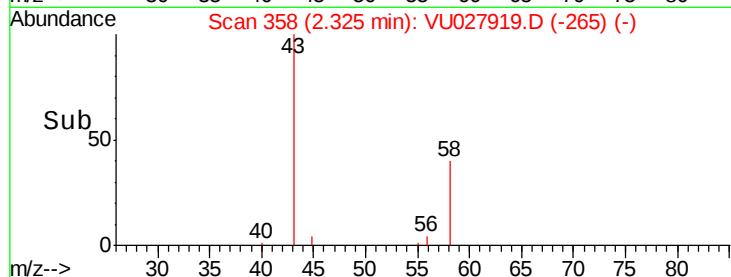
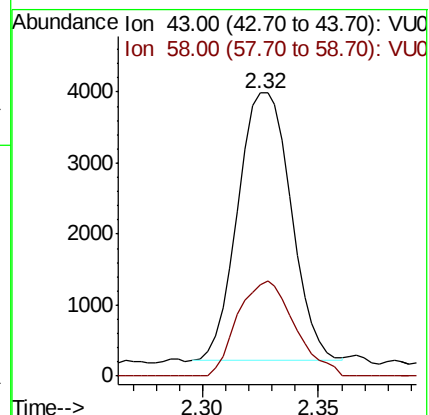
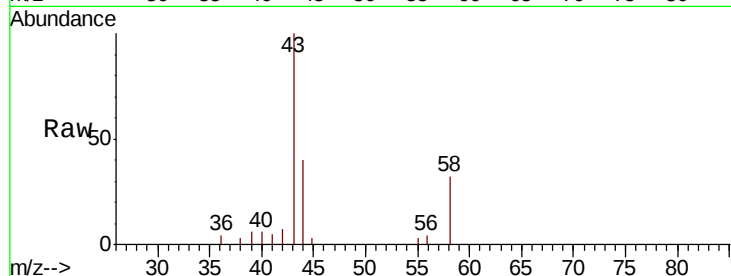
TW-2

Tot Ion: 43 Resp: 6016

Ion Ratio Lower Upper

43 100

58 34.0 24.6 37.0



#18

Methyl Acetate

Concen: 2.047 ug/l

RT: 2.45 min Scan# 397

Delta R.T. -0.17 min

Lab File: VU027919.D

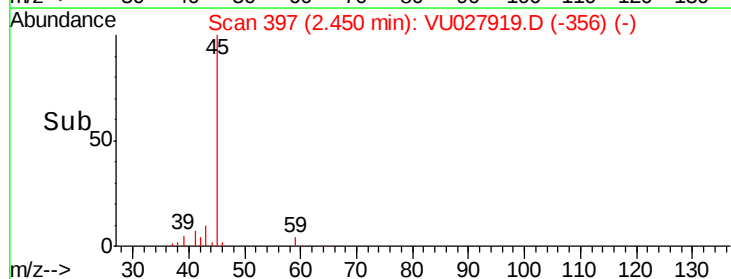
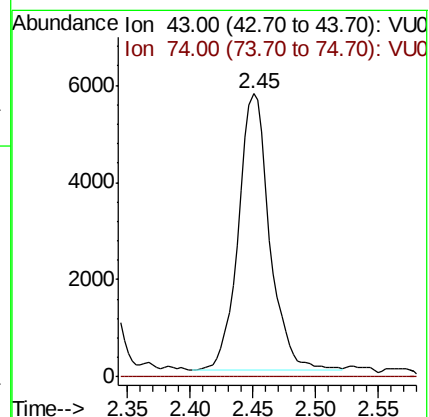
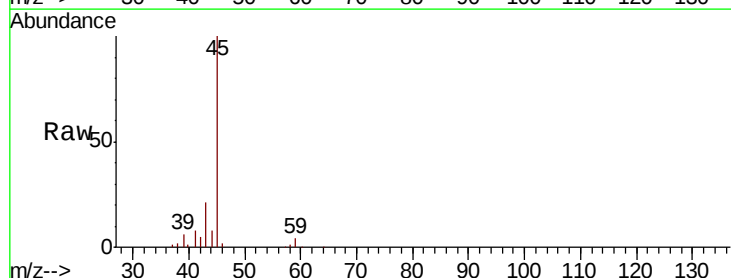
Acq: 02 Nov 2018 12:30

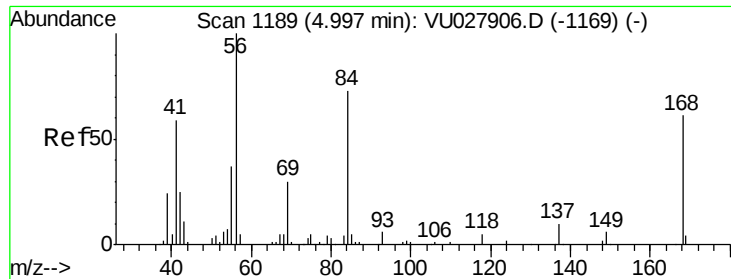
Tgt Ion: 43 Resp: 9901

Ion Ratio Lower Upper

43 100

74 0.0 14.9 22.3#

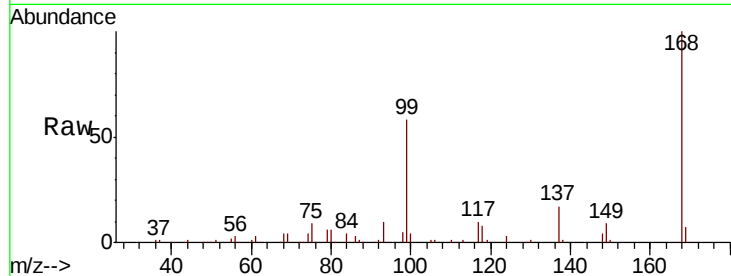




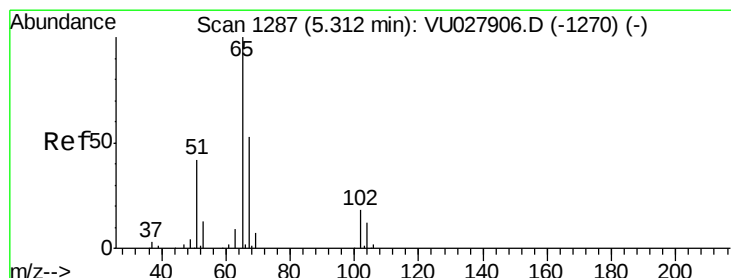
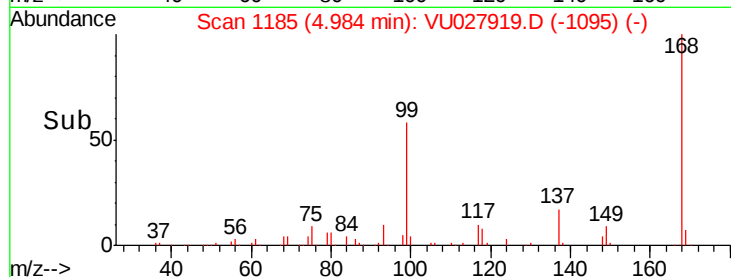
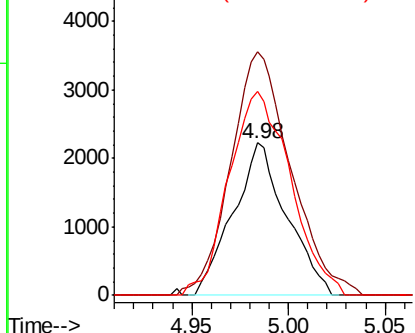
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU027919.D
Acq: 02 Nov 2018 12:30

Instrument :
MSVOA_U
ClientSampleId :
TW-2

Tot Ion: 56 Resp: 4300
Ion Ratio Lower Upper
56 100
69 154.1 23.7 35.5#
84 127.2 58.2 87.4#

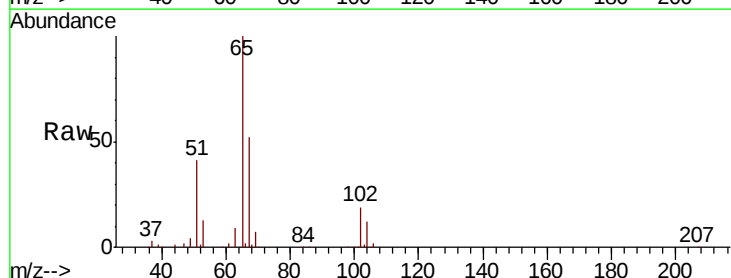


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

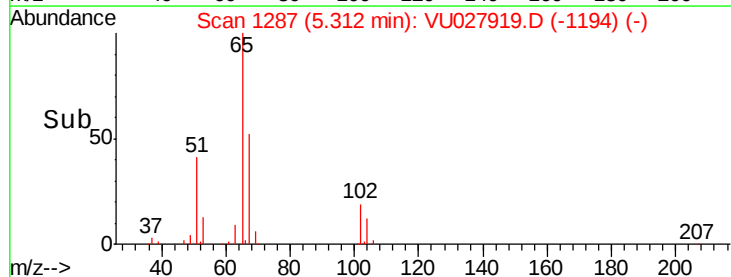
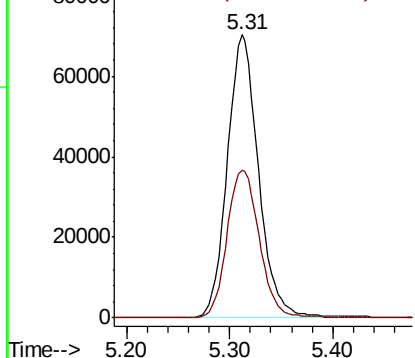


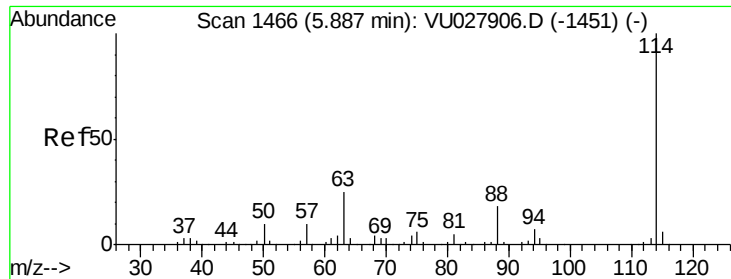
#33
1,2-Dichloroethane-d4
Concen: 52.213 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VU027919.D
Acq: 02 Nov 2018 12:30

Tgt Ion: 65 Resp: 147938
Ion Ratio Lower Upper
65 100
67 54.4 0.0 109.0



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

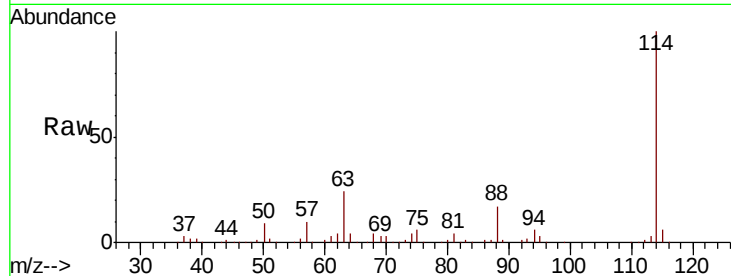




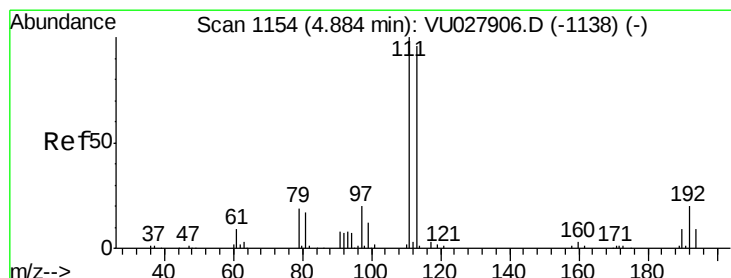
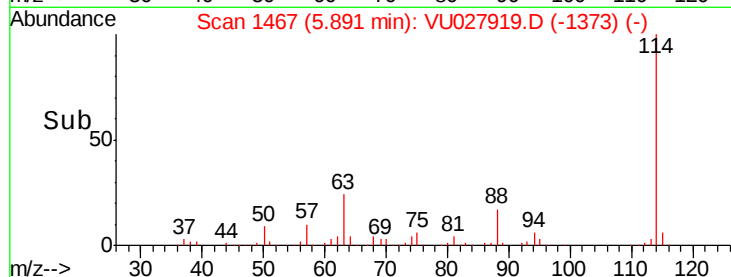
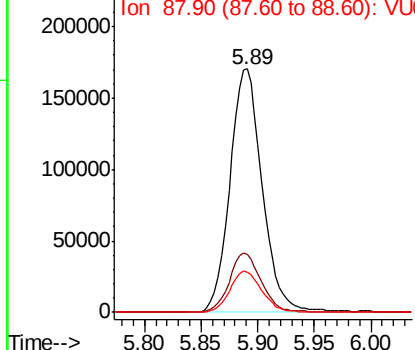
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1467
Delta R.T. 0.00 min
Lab File: VU027919.D
Acq: 02 Nov 2018 12:30

Instrument :
MSVOA_U
ClientSampled :
TW-2

Tot Ion:114 Resp: 338351
Ion Ratio Lower Upper
114 100
63 23.9 0.0 50.8
88 16.6 0.0 35.8

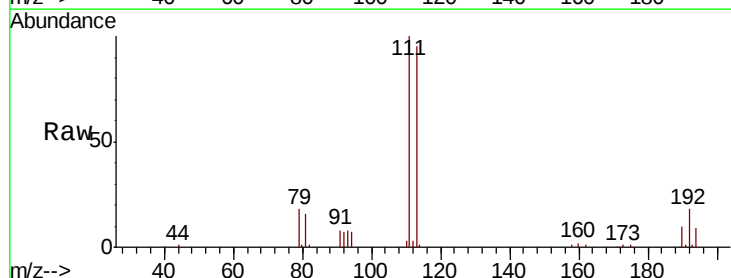


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

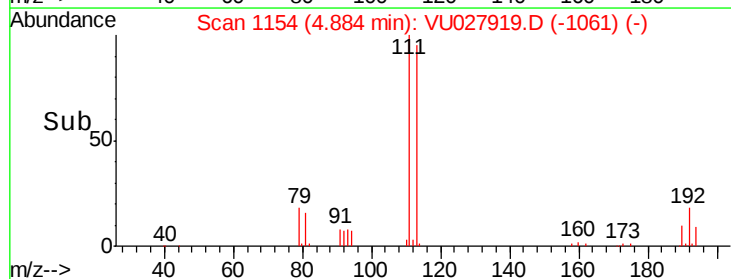
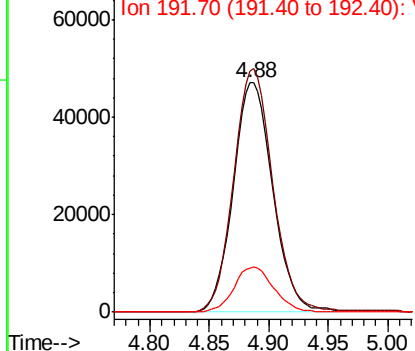


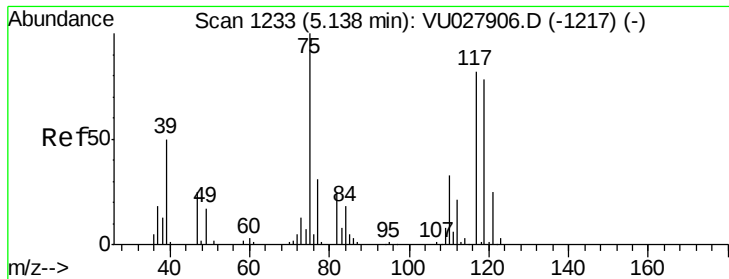
#35
Dibromofluoromethane
Concen: 50.845 ug/l
RT: 4.88 min Scan# 1154
Delta R.T. 0.00 min
Lab File: VU027919.D
Acq: 02 Nov 2018 12:30

Tgt Ion:113 Resp: 108471
Ion Ratio Lower Upper
113 100
111 105.3 83.0 124.6
192 19.7 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: 4.708 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

Instrument :

MSVOA_U

ClientSampleId :

TW-2

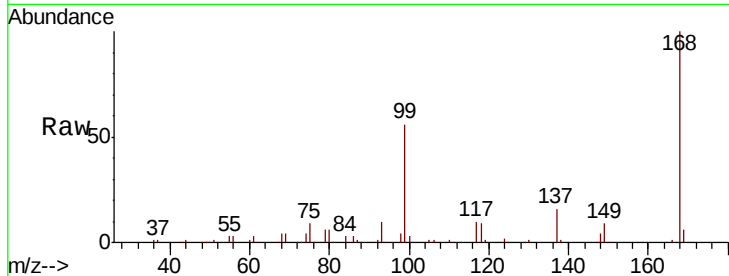
Tot Ion: 75 Resp: 16682

Ion Ratio Lower Upper

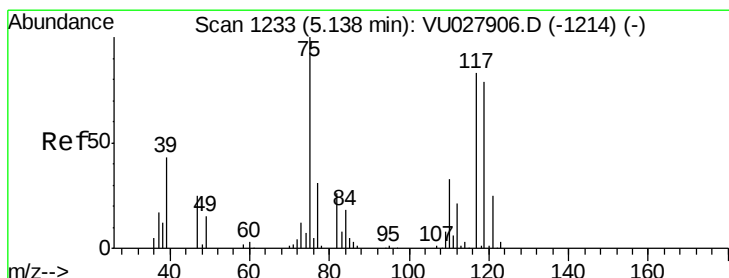
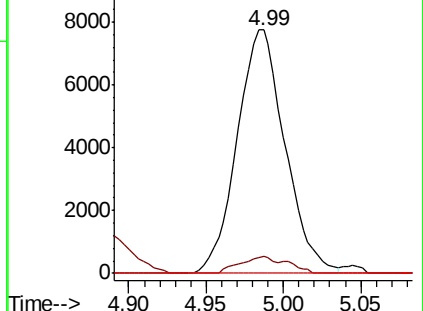
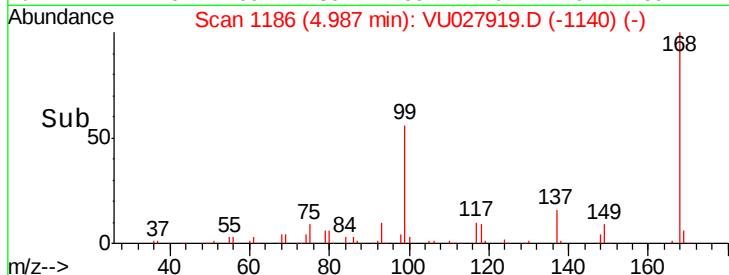
75 100

110 6.8 16.5 49.5#

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU027919.D (-1140) (-)



#38

Carbon Tetrachloride

Concen: 6.090 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

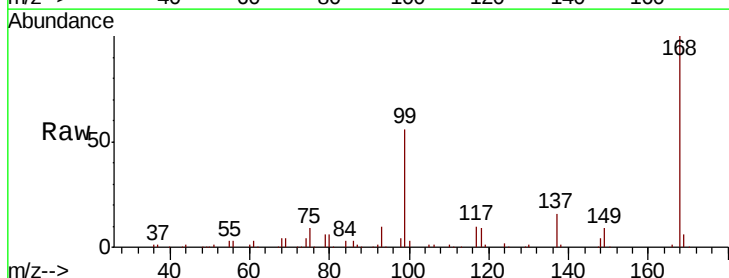
Tgt Ion: 117 Resp: 19125

Ion Ratio Lower Upper

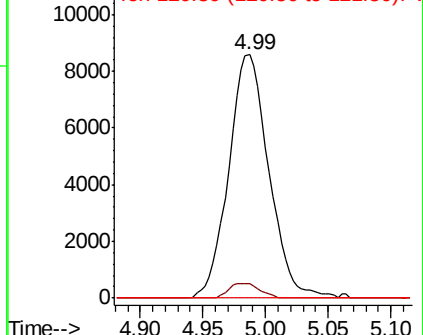
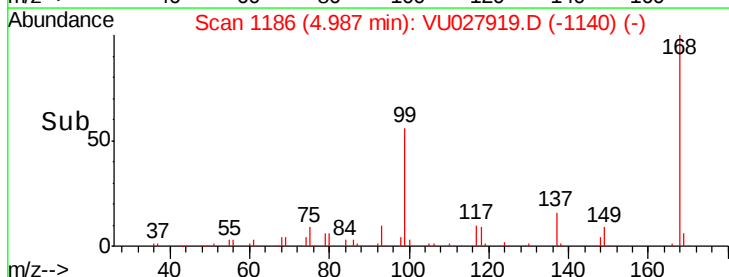
117 100

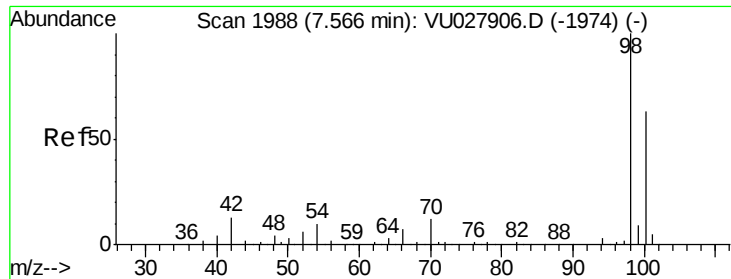
119 5.9 76.0 114.0#

121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): VU027919.D (-1140) (-)





#50

Toluene-d8

Concen: 52.359 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

Instrument :

MSVOA_U

ClientSampled :

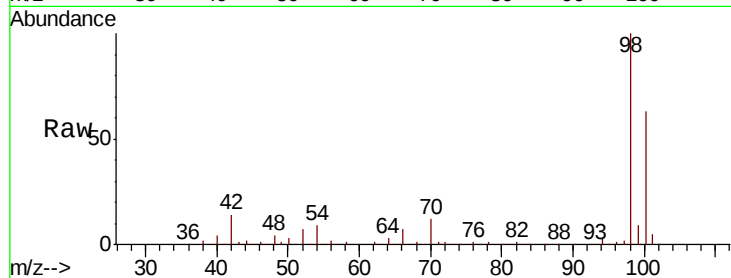
TW-2

Tot Ion: 98 Resp: 431492

Ion Ratio Lower Upper

98 100

100 62.7 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

250000

200000

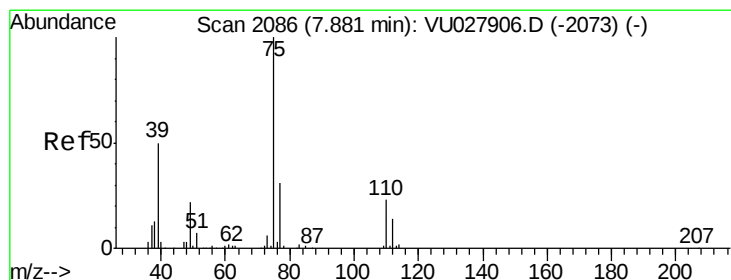
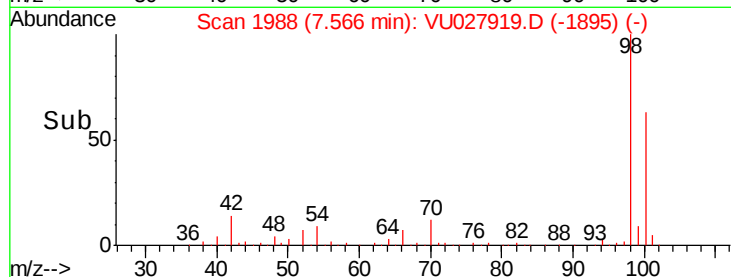
150000

100000

50000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 1.133 ug/l

RT: 7.89 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VU027919.D

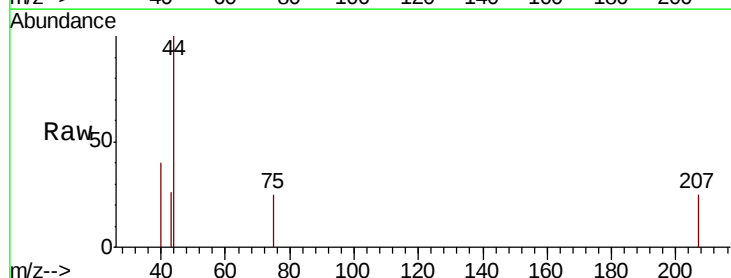
Acq: 02 Nov 2018 12:30

Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-2073) (-)

Ion 76.90 (76.60 to 77.60): VU027906.D (-2073) (-)

7.89

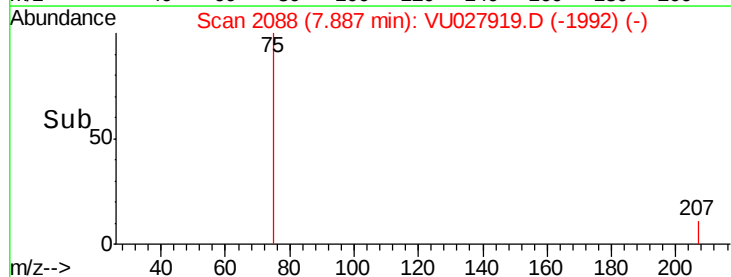
150

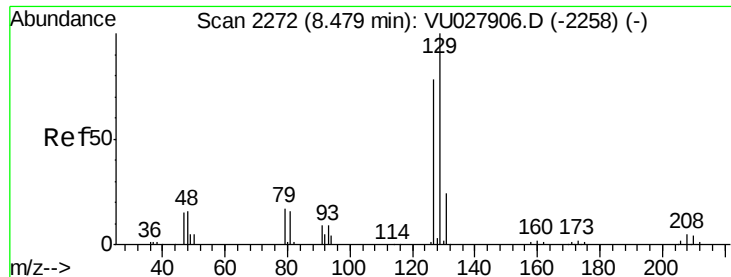
100

50

0

Time-->





#60

Dibromochloromethane

Concen: 0.399 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

Instrument :

MSVOA_U

ClientSampleId :

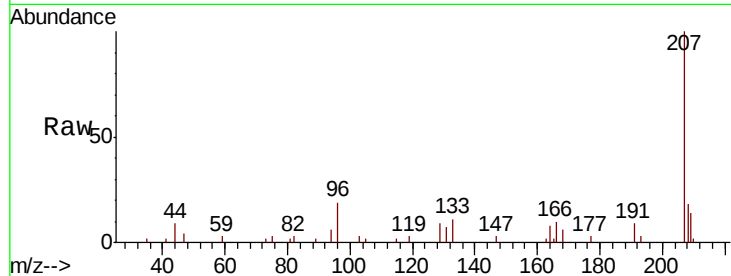
TW-2

Tot Ion:129 Resp: 979

Ion Ratio Lower Upper

129 100

127 0.0 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.23

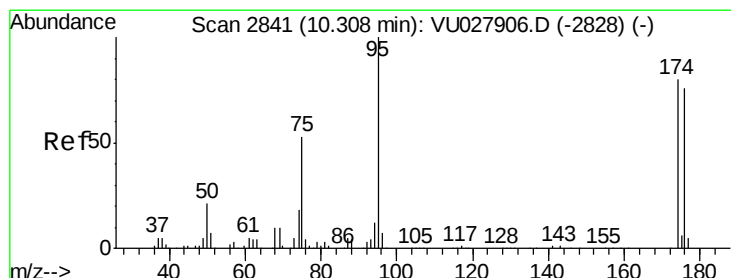
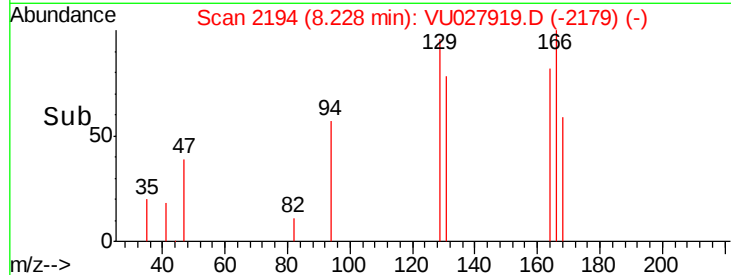
600

400

200

0

Time--> 8.18 8.20 8.22 8.24 8.26



#62

4-Bromofluorobenzene

Concen: 47.637 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

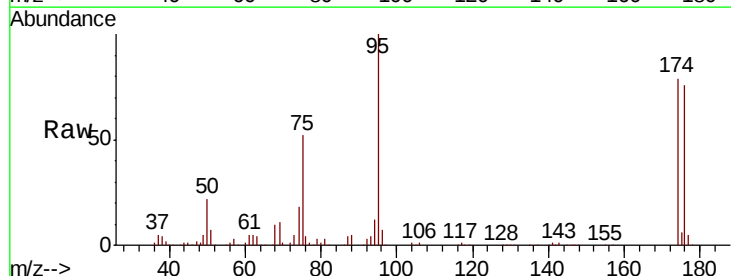
Tgt Ion: 95 Resp: 144800

Ion Ratio Lower Upper

95 100

174 78.3 0.0 156.4

176 75.2 0.0 150.8



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

120000

100000

80000

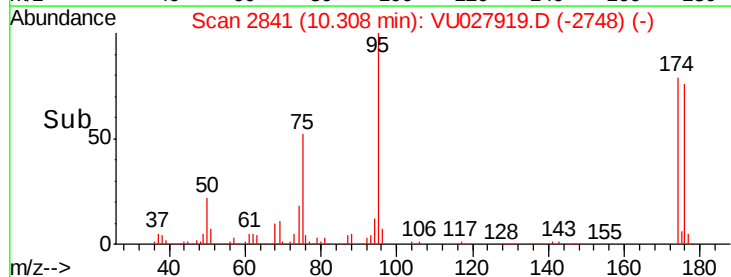
60000

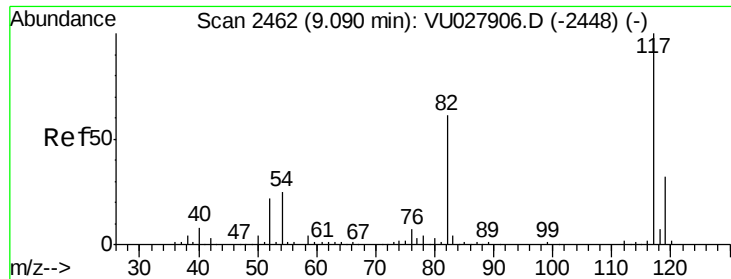
40000

20000

0

Time--> 10.30 10.40

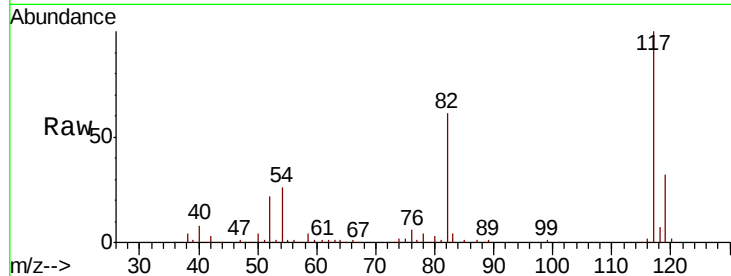




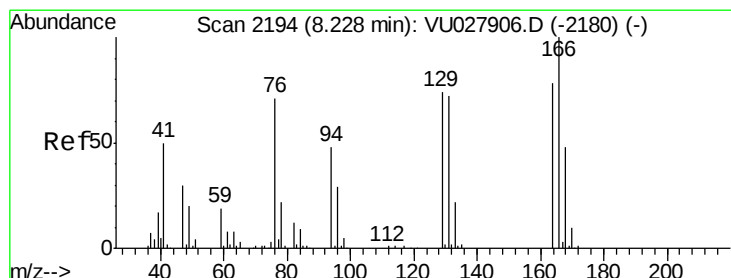
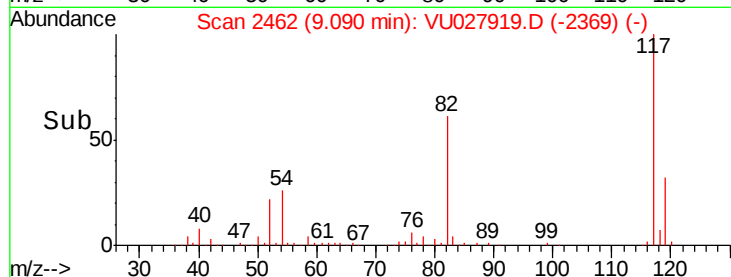
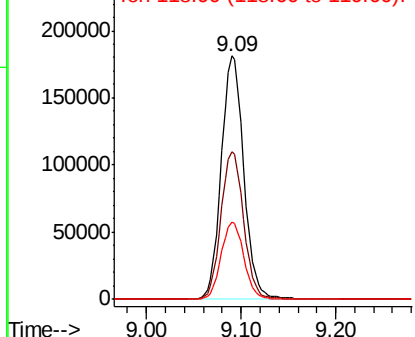
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU027919.D
Acq: 02 Nov 2018 12:30

Instrument :
MSVOA_U
ClientSampleId :
TW-2

Tot Ion:117 Resp: 300585
Ion Ratio Lower Upper
117 100
82 60.8 48.6 73.0
119 31.6 25.8 38.8

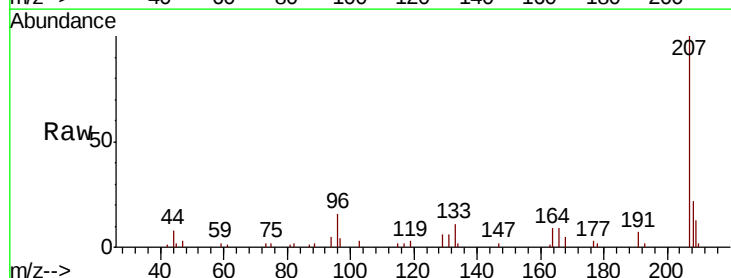


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

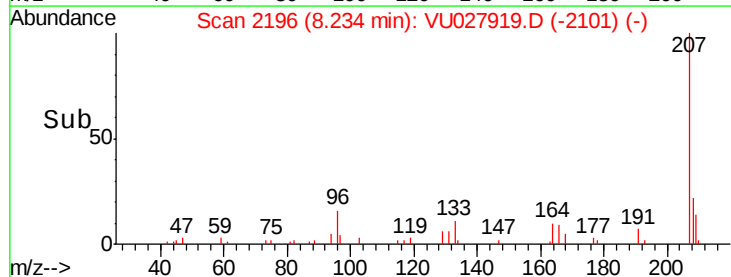
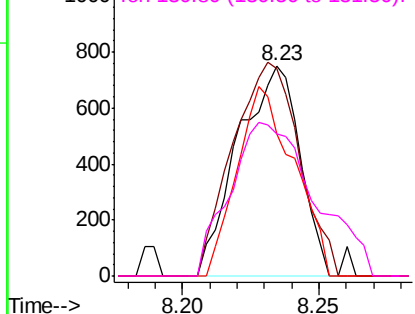


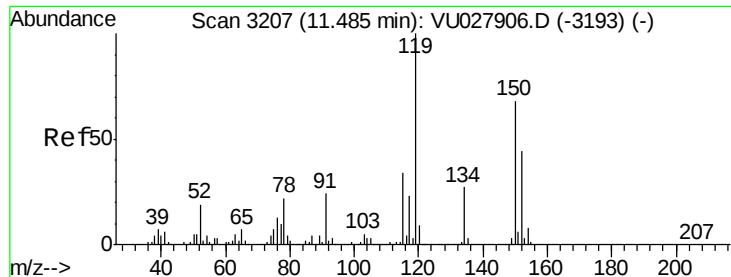
#64
Tetrachloroethene
Concen: 0.608 ug/l
RT: 8.23 min Scan# 2196
Delta R.T. 0.01 min
Lab File: VU027919.D
Acq: 02 Nov 2018 12:30

Tgt Ion:164 Resp: 1186
Ion Ratio Lower Upper
164 100
166 98.5 102.1 153.1#
129 67.3 75.9 113.9#
131 67.4 73.0 109.6#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

Instrument :

MSVOA_U

ClientSampleId :

TW-2

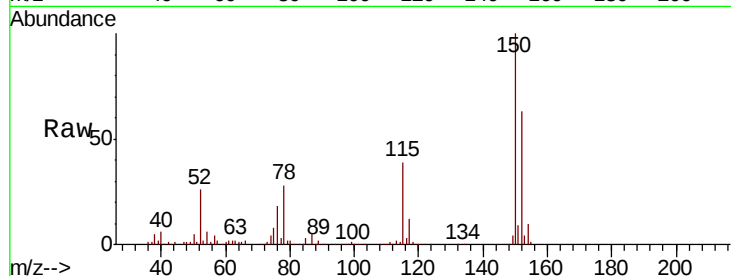
Tot Ion:152 Resp: 127264

Ion Ratio Lower Upper

152 100

115 60.7 43.0 129.0

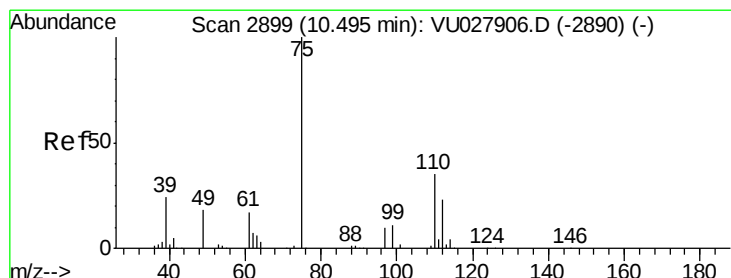
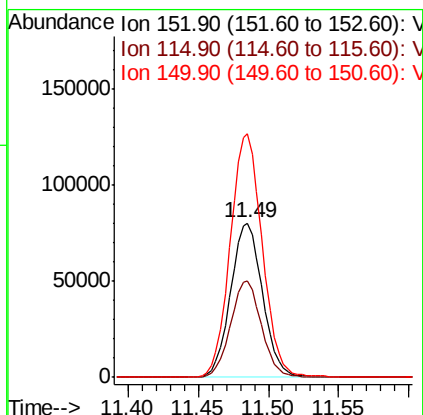
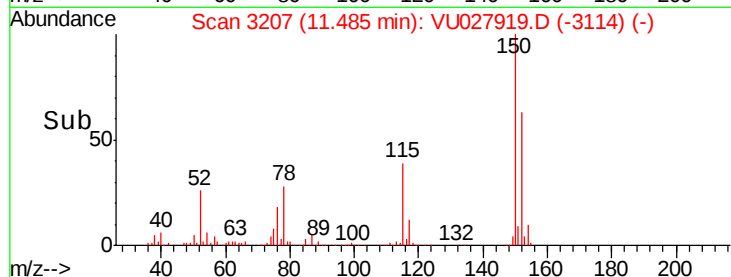
150 158.3 0.0 349.4



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: 21.664 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027919.D

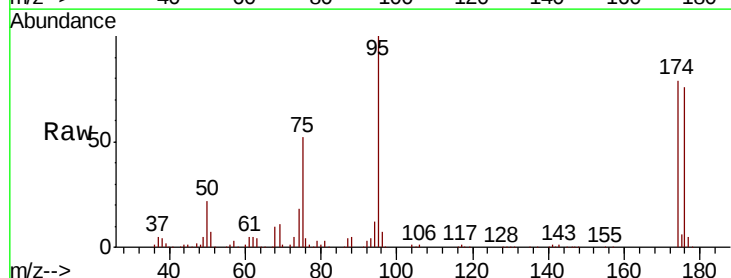
Acq: 02 Nov 2018 12:30

Tgt Ion: 75 Resp: 75413

Ion Ratio Lower Upper

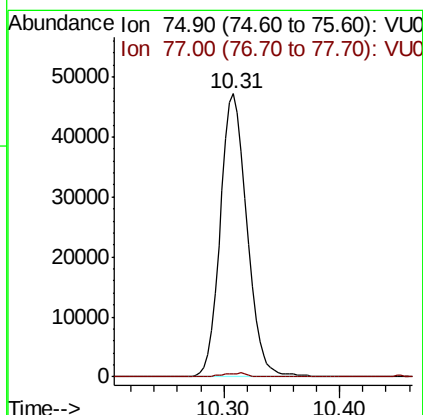
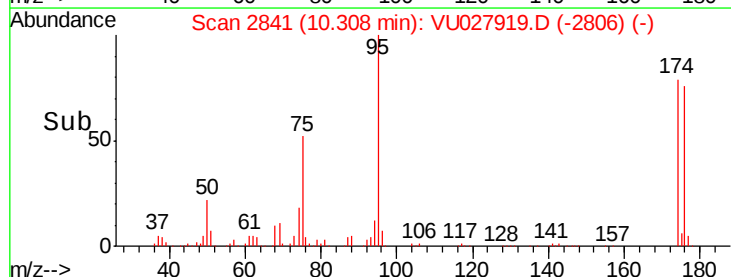
75 100

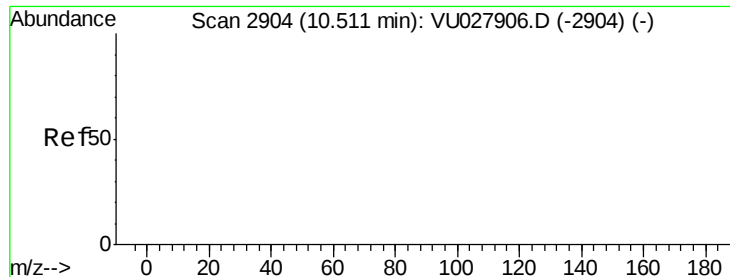
77 1.2 21.6 64.6#



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: 54.069 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

Instrument :

MSVOA_U

ClientSampled :

TW-2

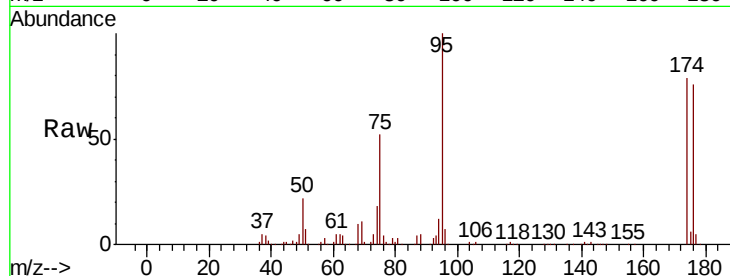
Tot Ion: 75 Resp: 75413

Ion Ratio Lower Upper

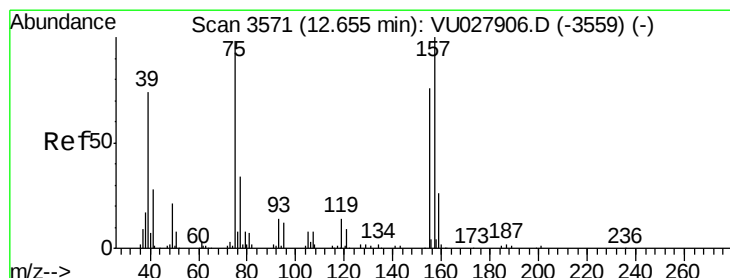
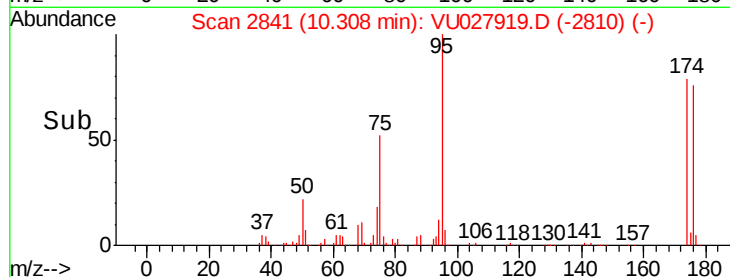
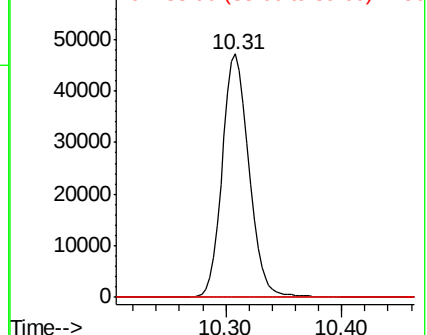
75 100

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.610 ug/l

RT: 12.49 min Scan# 3519

Delta R.T. -0.17 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

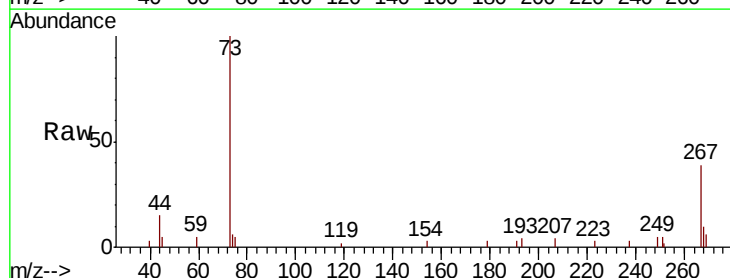
Tgt Ion: 75 Resp: 511

Ion Ratio Lower Upper

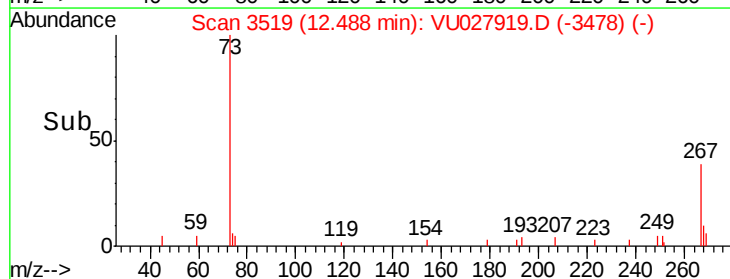
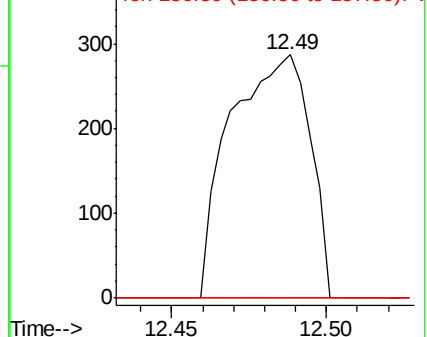
75 100

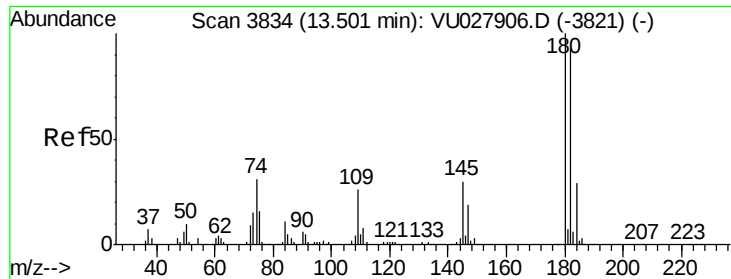
155 0.0 39.8 119.3#

157 0.0 50.6 151.9#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 0.746 ug/l

RT: 13.52 min Scan# 3841

Delta R.T. 0.02 min

Lab File: VU027919.D

Acq: 02 Nov 2018 12:30

Instrument :

MSVOA_U

ClientSampleId :

TW-2

Tot Ion:180 Resp: 185

Ion Ratio Lower Upper

180 100

182 106.5 48.4 145.2

145 0.0 14.9 44.5#

