

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111218\
 Data File : VU028068.D
 Acq On : 12 Nov 2018 16:33
 Operator : MD/SY
 Sample : J5885-02DL2 1000X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1DL2

Quant Time: Nov 13 02:46:06 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	170923	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	326555	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	293324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	114338	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	151600	59.66	ug/l	0.00
Spiked Amount			Recovery	=	119.32%	
35) Dibromofluoromethane	4.88	113	108374	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
50) Toluene-d8	7.57	98	431993	54.31	ug/l	0.00
Spiked Amount			Recovery	=	108.62%	
62) 4-Bromofluorobenzene	10.31	95	138476	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	

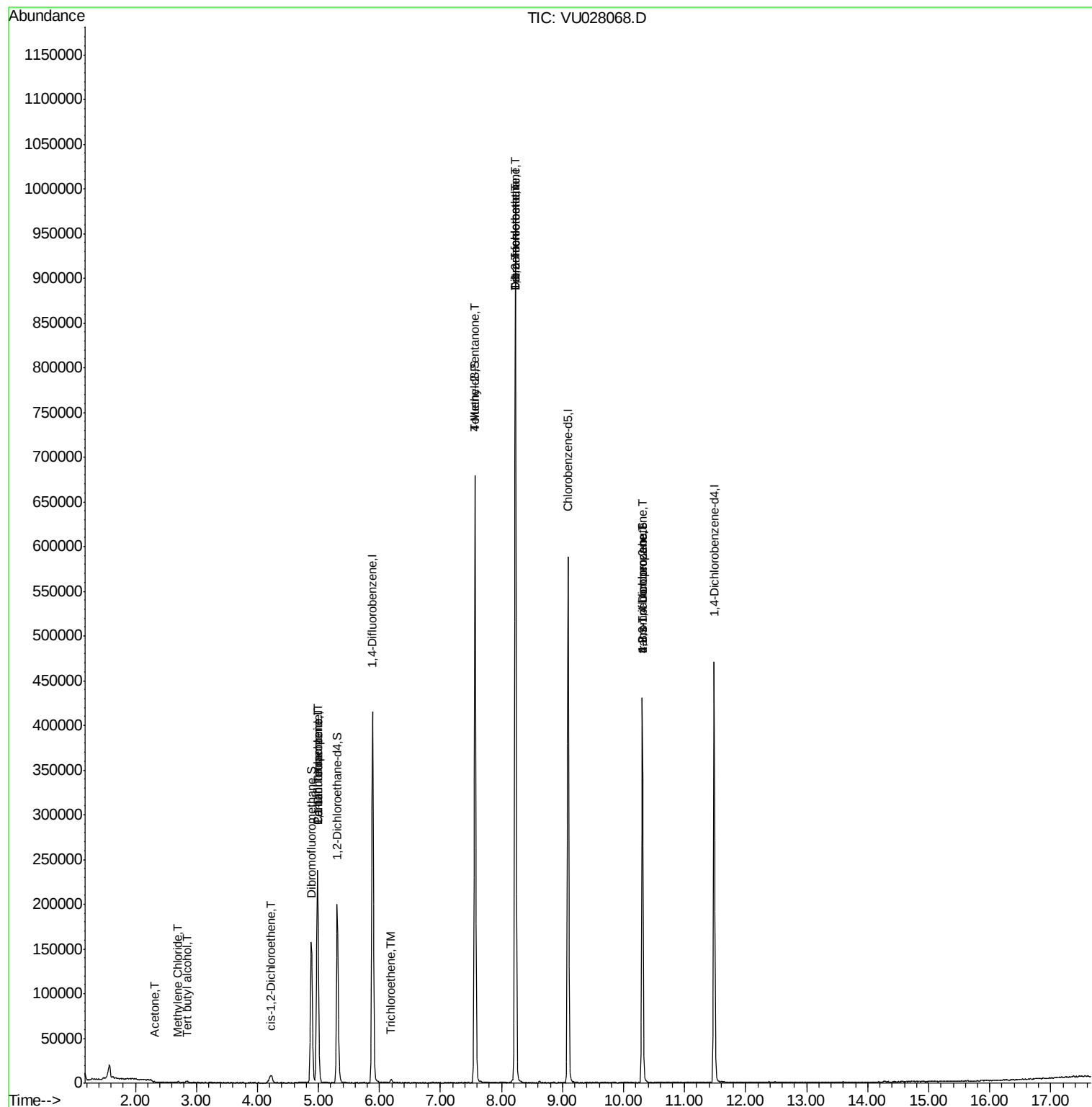
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.84	59	1262	1.876	ug/l #	73
16) Acetone	2.32	43	554	0.351	ug/l	96
20) Methylene Chloride	2.70	84	622	0.270	ug/l #	91
27) cis-1,2-Dichloroethene	4.23	96	3569	1.540	ug/l	92
31) Cyclohexane	4.98	56	4579	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	16108	4.710	ug/l #	48
38) Carbon Tetrachloride	4.98	117	17956	5.924	ug/l #	16
44) Trichloroethene	6.19	130	1475	0.656	ug/l	80
51) 4-Methyl-2-Pentanone	7.57	43	2306	0.440	ug/l #	1
55) 1,1,2-Trichloroethane	8.22	97	1870	0.748	ug/l #	1
60) Dibromochloromethane	8.23	129	202316	85.486	ug/l #	10
64) Tetrachloroethene	8.23	164	208363	109.550	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	73777	23.590	ug/l #	34
81) trans-1,4-Dichloro-2-buten	10.31	75	73777	58.852	ug/l #	100

(#) = 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: VU028068.D

Acq: 12 Nov 2018 16:33

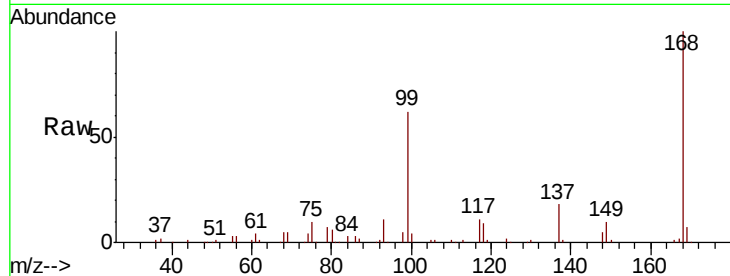
Instrument :
MSVOA_U
ClientSampleId :
MW-1DL2

Tot Ion:168 Resp: 170923

Ion Ratio Lower Upper

168 100

99 61.8 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU028068.D (-1092) (-)

Ion 98.90 (98.60 to 99.60): VU028068.D (-1092) (-)

4.98

80000

60000

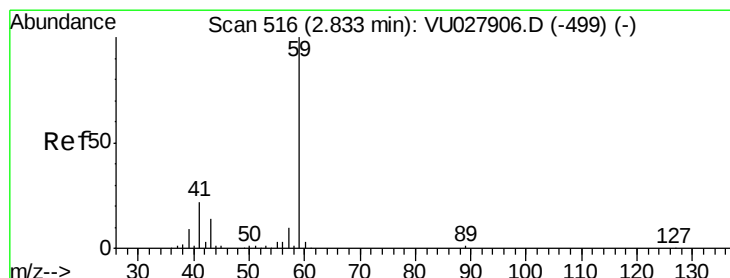
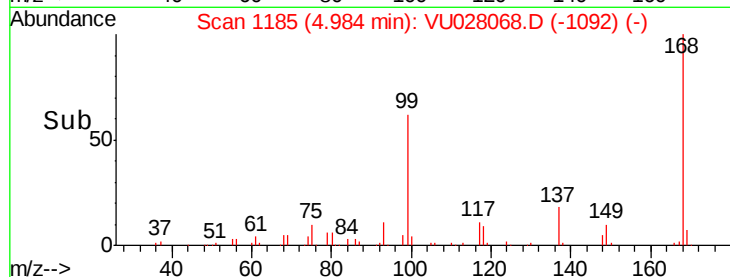
40000

20000

0

Time-->

4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.876 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU028068.D

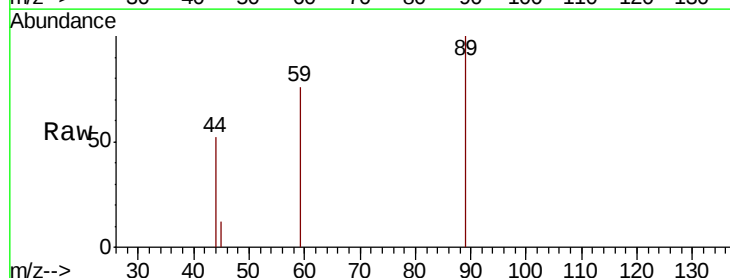
Acq: 12 Nov 2018 16:33

Tgt Ion: 59 Resp: 1262

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU028068.D (-423) (-)

Ion 57.00 (56.70 to 57.70): VU028068.D (-423) (-)

2.84

800

600

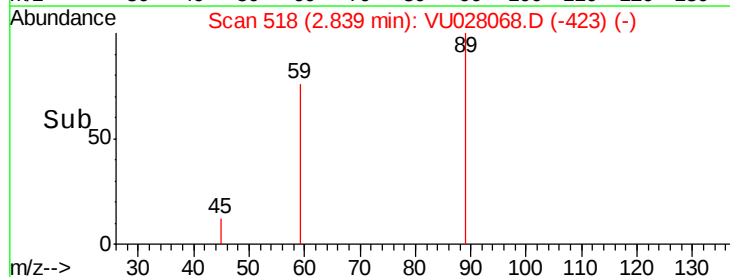
400

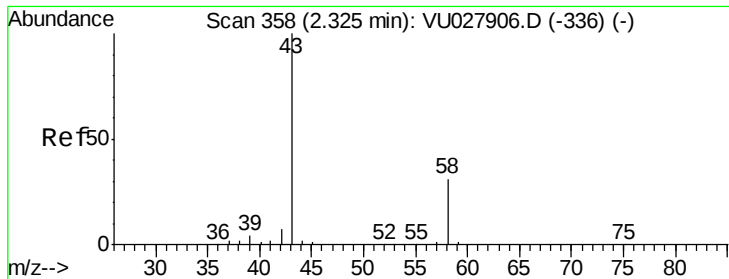
200

0

Time-->

2.80 2.85 2.90





#16

Acetone

Concen: 0.351 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampleId :

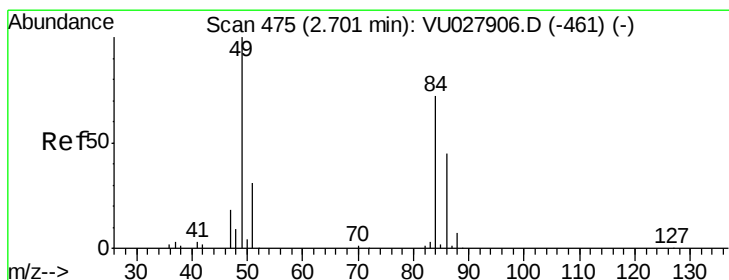
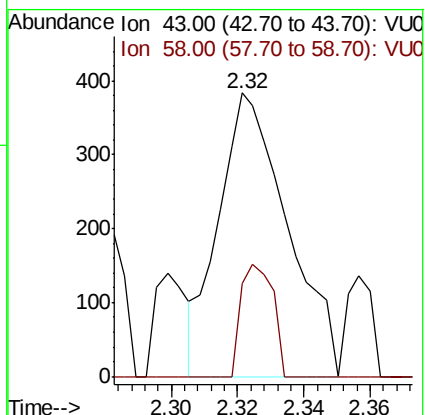
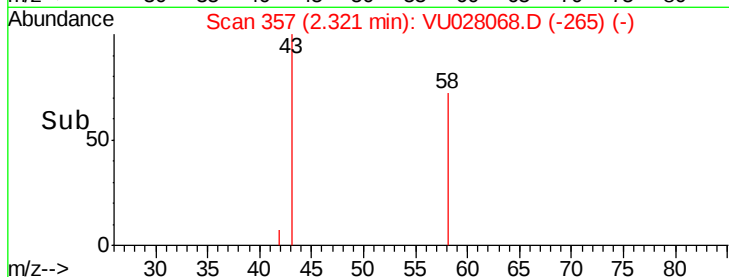
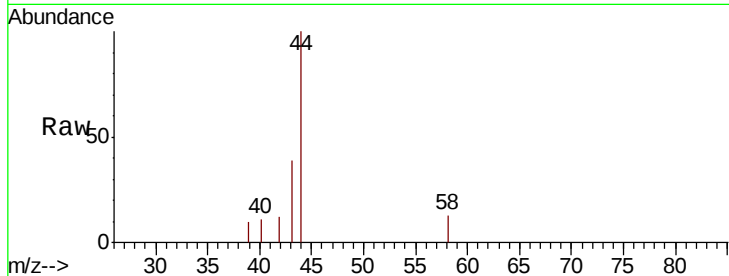
MW-1DL2

Tot Ion: 43 Resp: 554

Ion Ratio Lower Upper

43 100

58 32.9 24.6 37.0



#20

Methylene Chloride

Concen: 0.270 ug/l

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

Tgt Ion: 84 Resp: 622

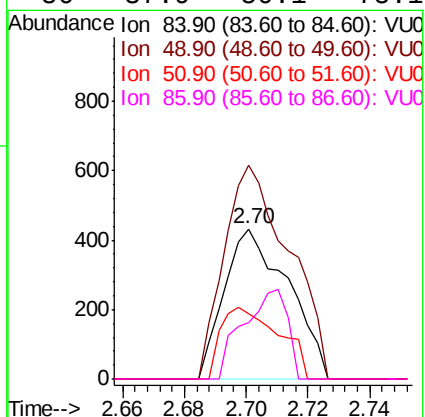
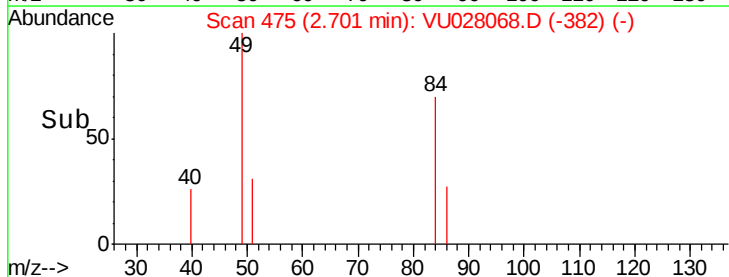
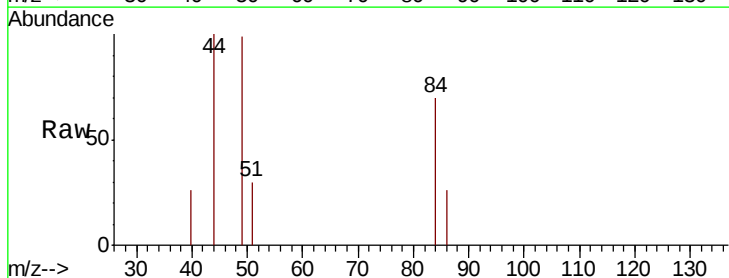
Ion Ratio Lower Upper

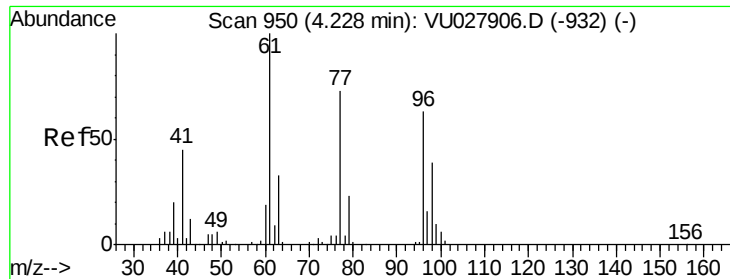
84 100

49 142.0 111.6 167.4

51 43.9 34.8 52.2

86 37.9 50.1 75.1#





#27

cis-1,2-Dichloroethene

Concen: 1.540 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampleId :

MW-1DL2

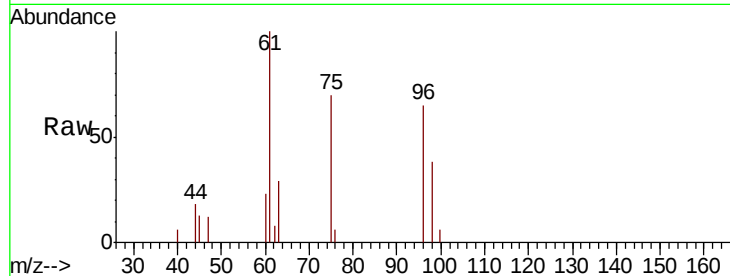
Tot Ion: 96 Resp: 3569

Ion Ratio Lower Upper

96 100

61 156.4 0.0 329.6

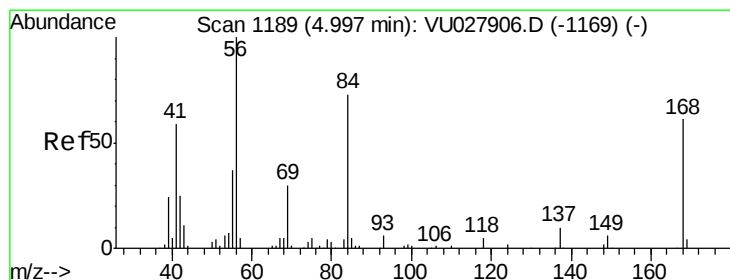
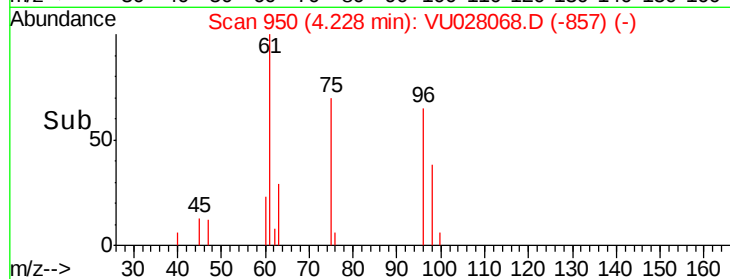
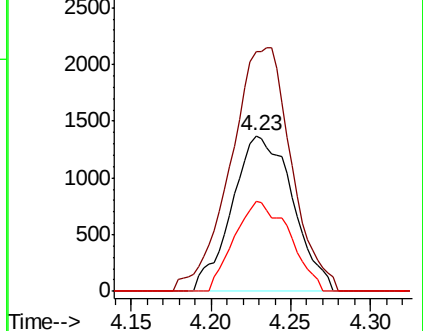
98 52.7 0.0 127.2



Abundance Ion 95.90 (95.60 to 96.60): VU027906.D (-932) (-)

Ion 60.90 (60.60 to 61.60): VU027906.D (-932) (-)

Ion 97.90 (97.60 to 98.60): VU027906.D (-932) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

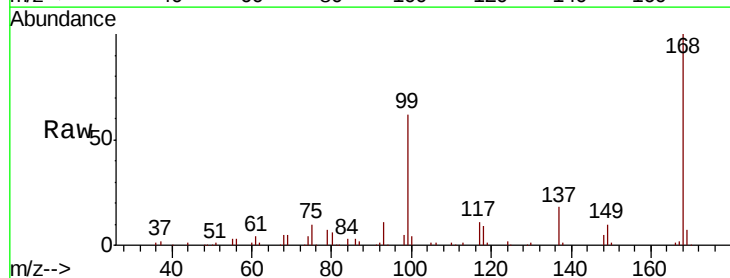
Tgt Ion: 56 Resp: 4579

Ion Ratio Lower Upper

56 100

69 171.3 23.7 35.5#

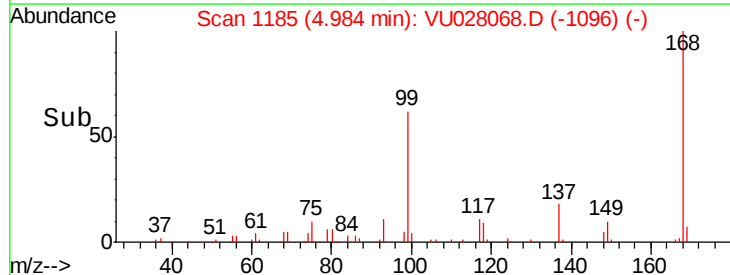
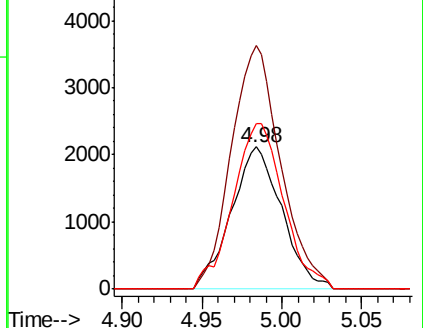
84 116.8 58.2 87.4#

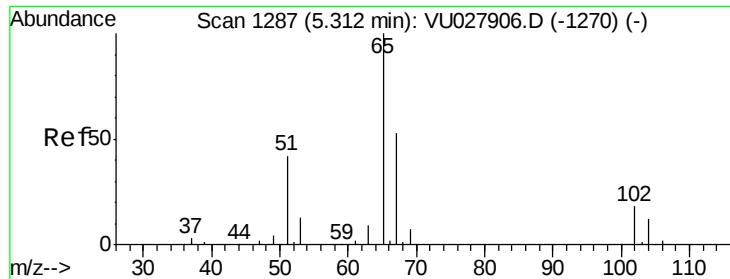


Abundance Ion 56.00 (55.70 to 56.70): VU027906.D (-1169) (-)

Ion 69.00 (68.70 to 69.70): VU027906.D (-1169) (-)

Ion 84.00 (83.70 to 84.70): VU027906.D (-1169) (-)

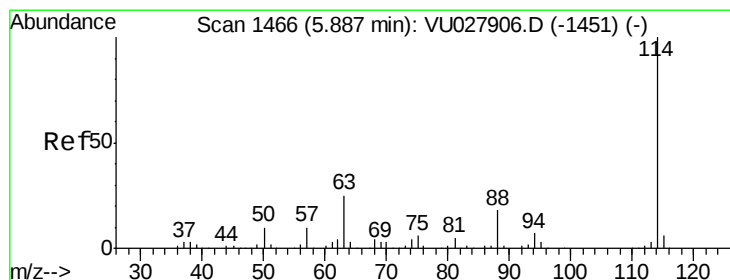
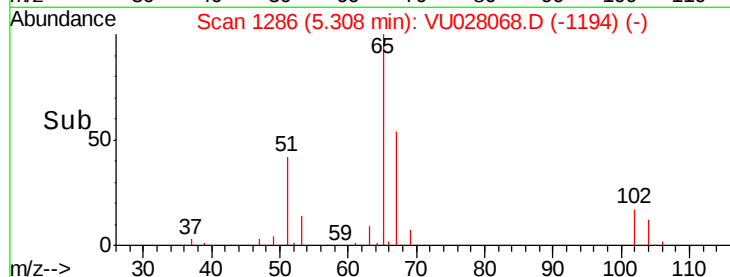
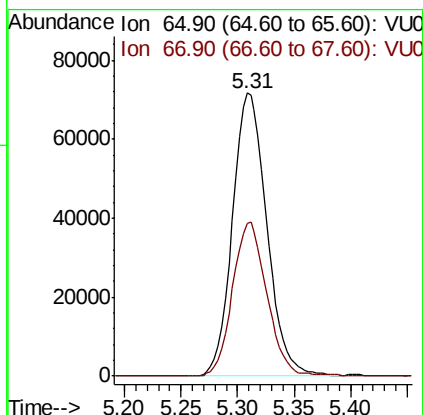
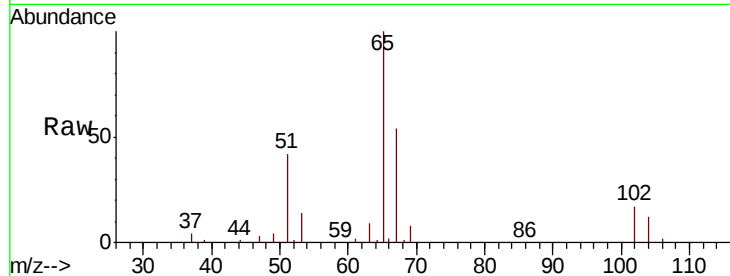




#33
 1,2-Dichloroethane-d4
 Concen: 59.657 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028068.D
 Acq: 12 Nov 2018 16:33

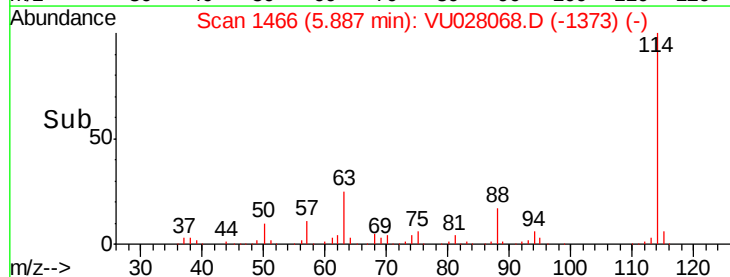
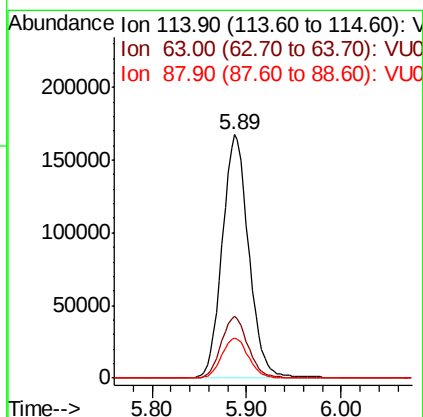
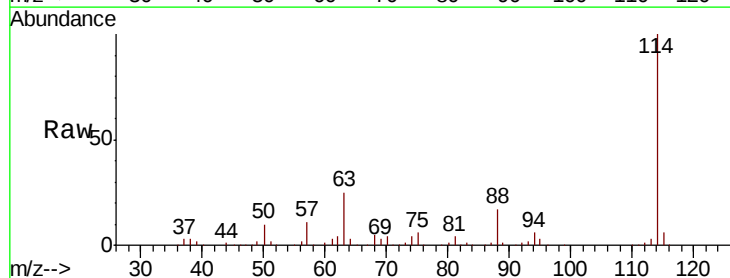
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1DL2

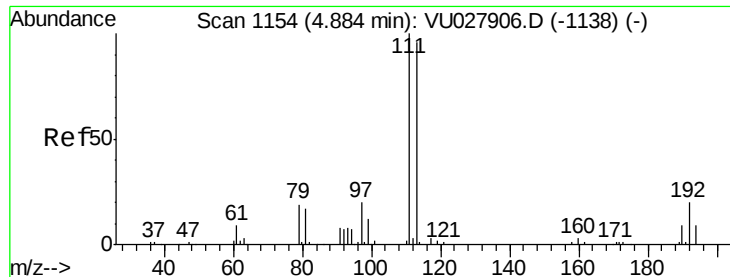
Tot Ion: 65 Resp: 151600
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028068.D
 Acq: 12 Nov 2018 16:33

Tgt Ion: 114 Resp: 326555
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 50.8
 88 16.5 0.0 35.8

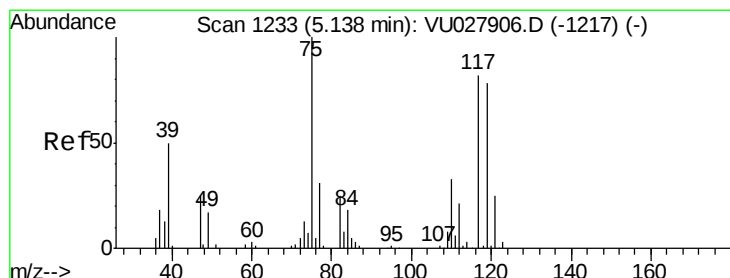
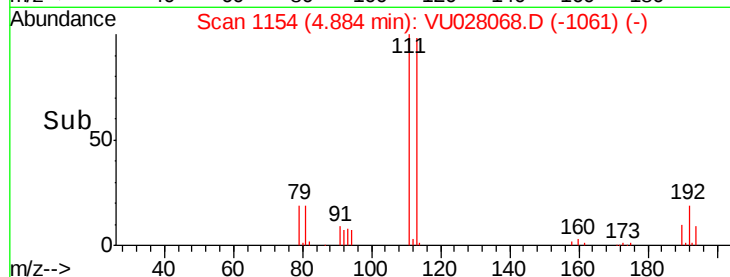
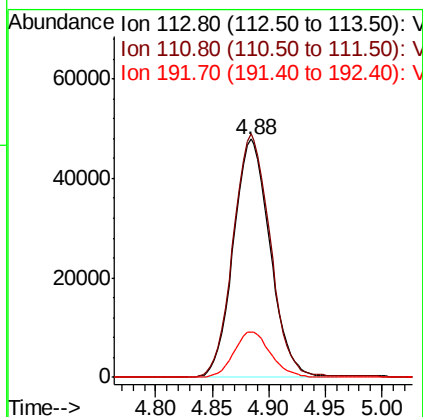
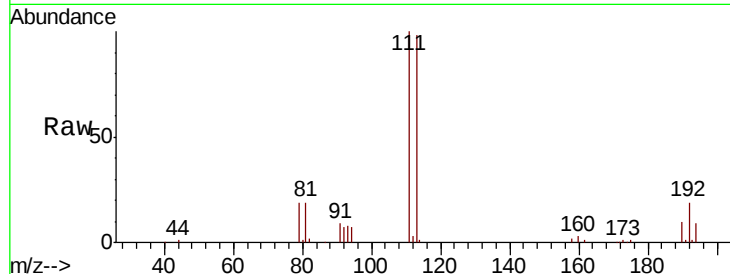




#35
 Dibromofluoromethane
 Concen: 52.635 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028068.D
 Acq: 12 Nov 2018 16:33

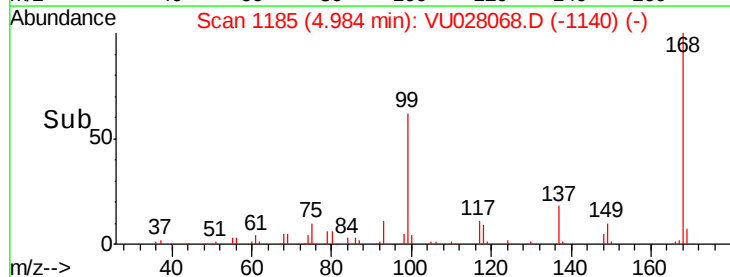
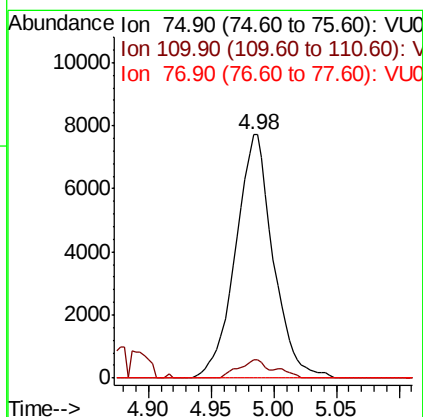
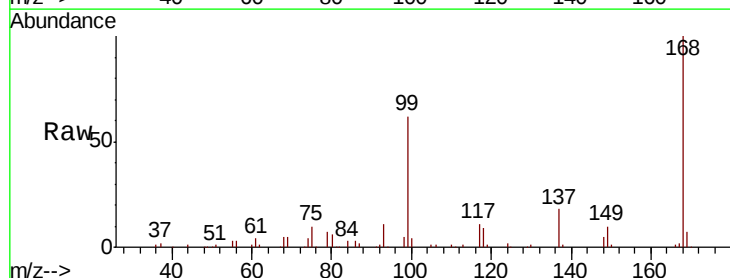
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1DL2

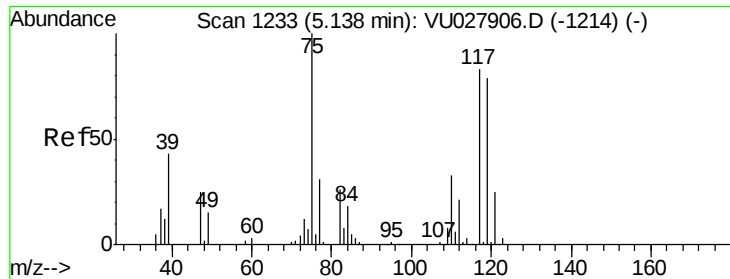
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.0	124.6
192	19.0	15.6	23.4



#36
 1,1-Dichloropropene
 Concen: 4.710 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028068.D
 Acq: 12 Nov 2018 16:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.6	16.5	49.5#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.924 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampleId :

MW-1DL2

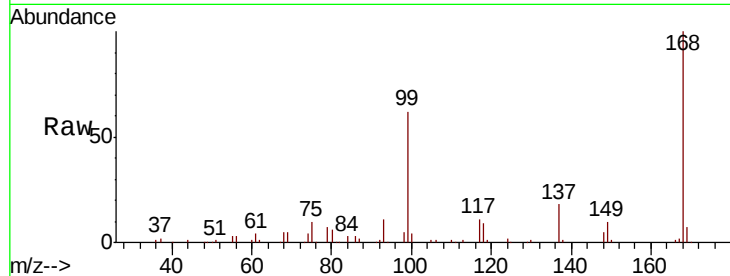
Tot Ion:117 Resp: 17956

Ion Ratio Lower Upper

117 100

119 4.8 76.0 114.0#

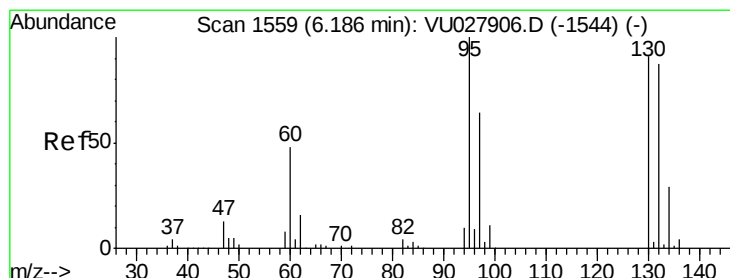
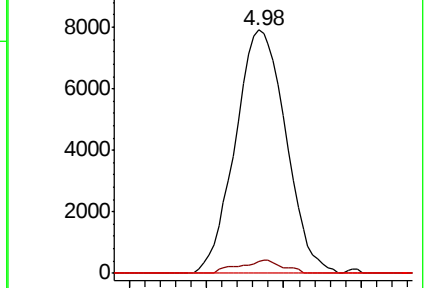
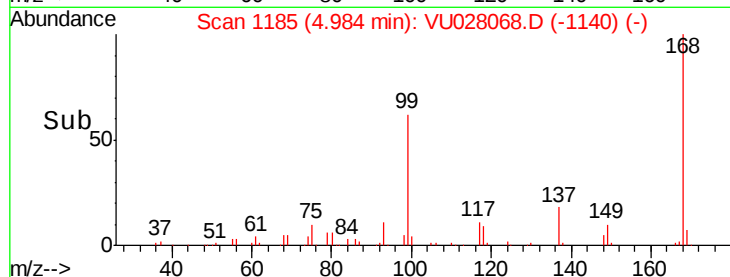
121 0.0 24.5 36.7#



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



#44

Trichloroethene

Concen: 0.656 ug/l

RT: 6.19 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VU028068.D

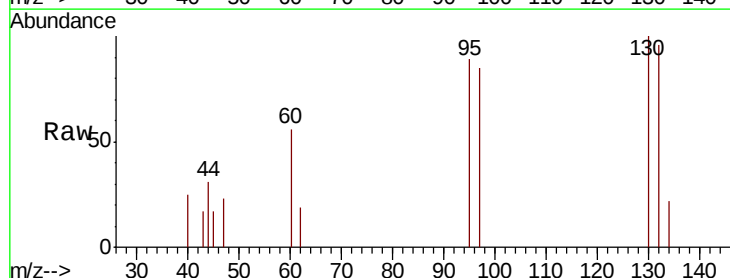
Acq: 12 Nov 2018 16:33

Tgt Ion:130 Resp: 1475

Ion Ratio Lower Upper

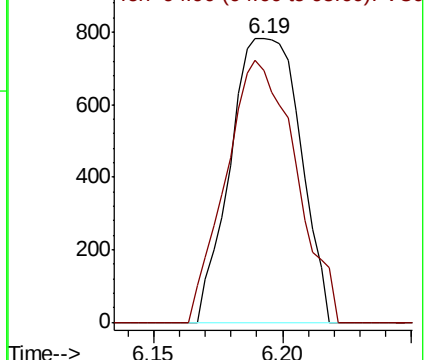
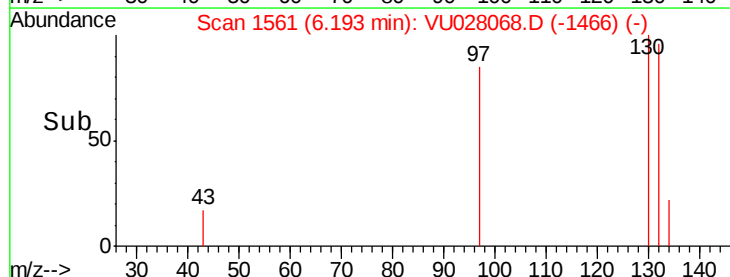
130 100

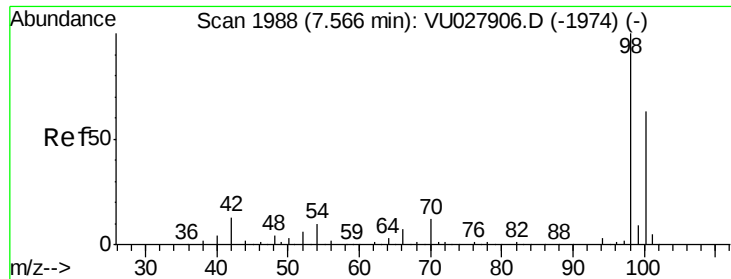
95 88.7 0.0 219.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

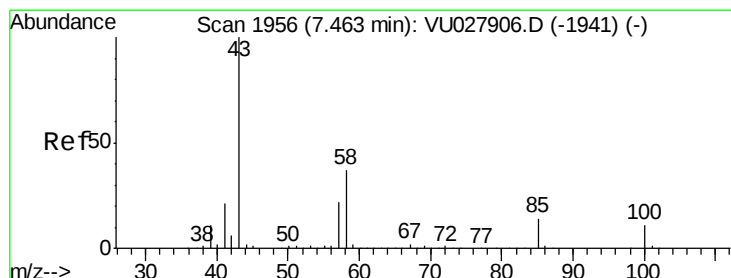
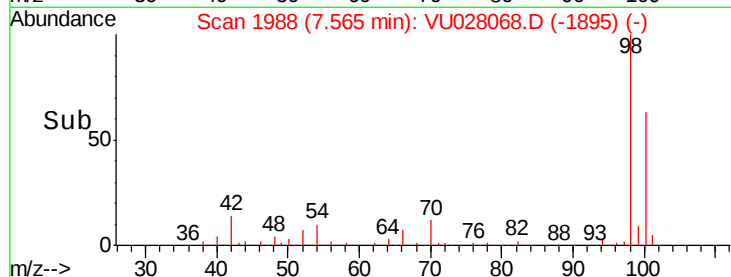
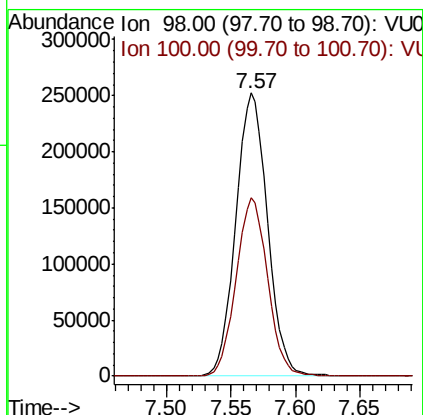
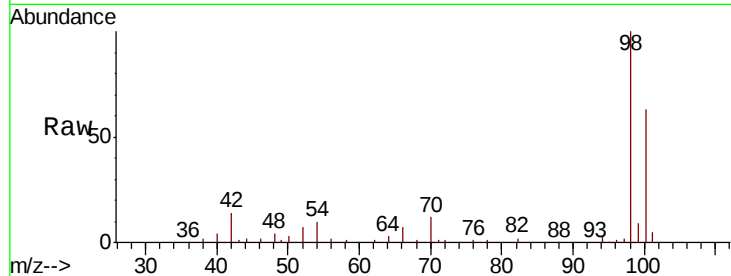




#50
Toluene-d8
Concen: 54.314 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028068.D
Acq: 12 Nov 2018 16:33

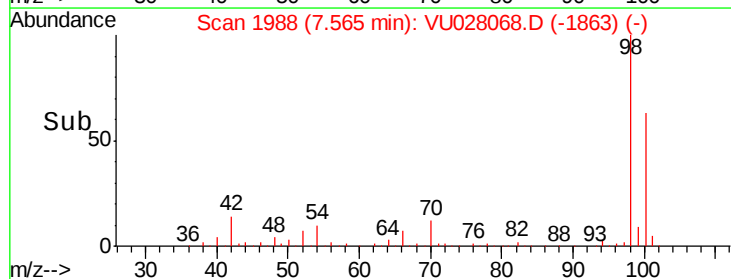
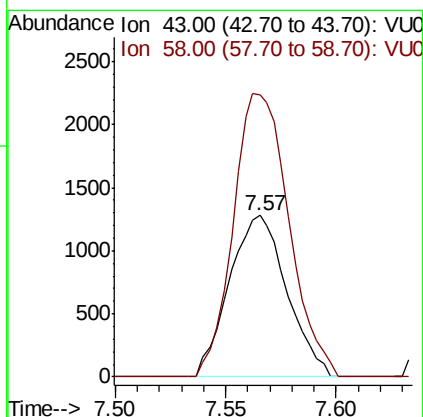
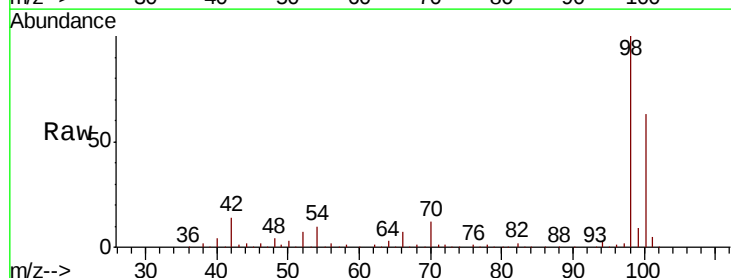
Instrument :
MSVOA_U
ClientSampleId :
MW-1DL2

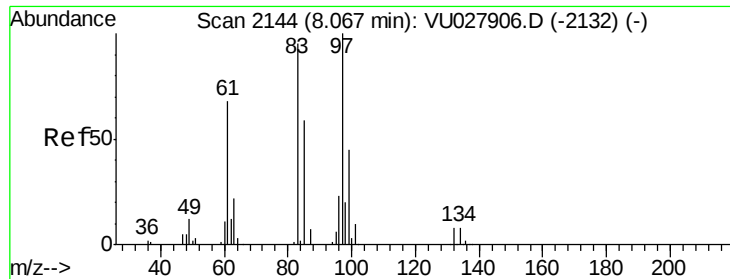
Tot Ion: 98 Resp: 431993
Ion Ratio Lower Upper
98 100
100 62.6 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 0.440 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.10 min
Lab File: VU028068.D
Acq: 12 Nov 2018 16:33

Tgt Ion: 43 Resp: 2306
Ion Ratio Lower Upper
43 100
58 170.3 29.5 44.3#





#55

1,1,2-Trichloroethane

Concen: 0.748 ug/l

RT: 8.22 min Scan# 2192

Delta R.T. 0.15 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampleId :

MW-1DL2

Tot Ion: 97 Resp: 1870

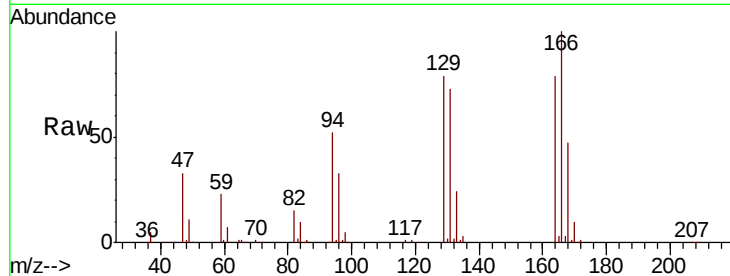
Ion Ratio Lower Upper

97 100

83 281.3 76.1 114.1#

85 43.4 48.9 73.3#

99 14.4 52.0 78.0#

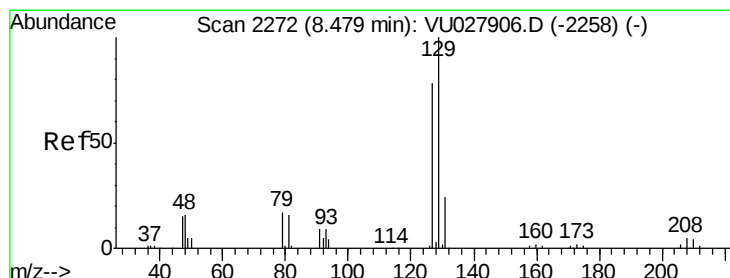
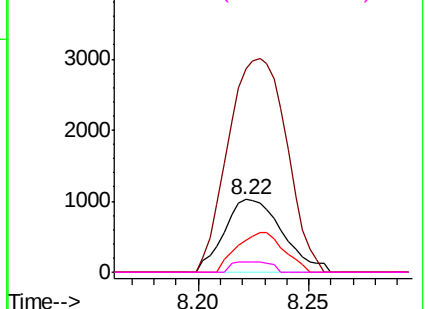
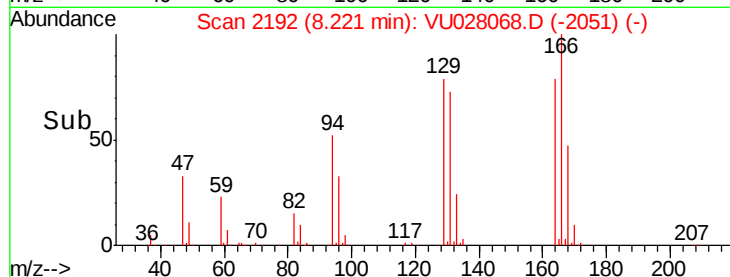


Abundance Ion 96.90 (96.60 to 97.60): VU0

Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 98.90 (98.60 to 99.60): VU0



#60

Dibromochloromethane

Concen: 85.486 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028068.D

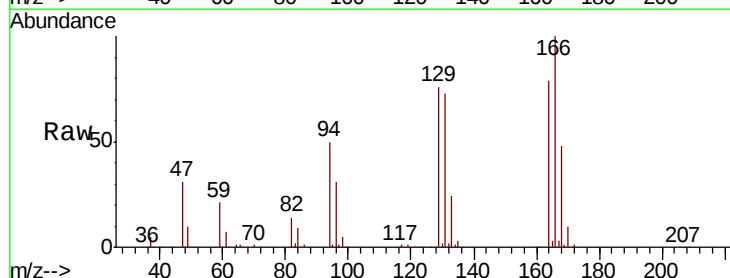
Acq: 12 Nov 2018 16:33

Tgt Ion: 129 Resp: 202316

Ion Ratio Lower Upper

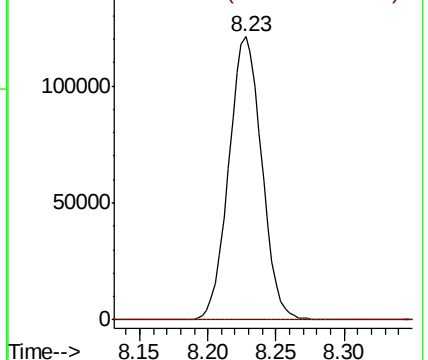
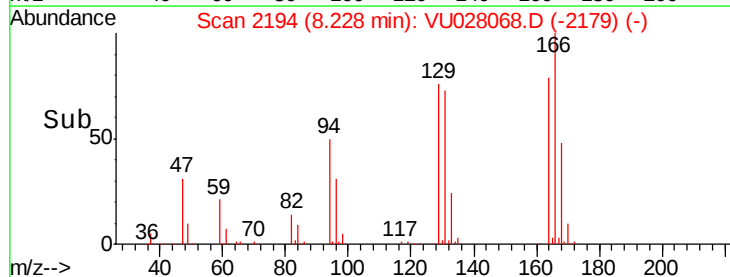
129 100

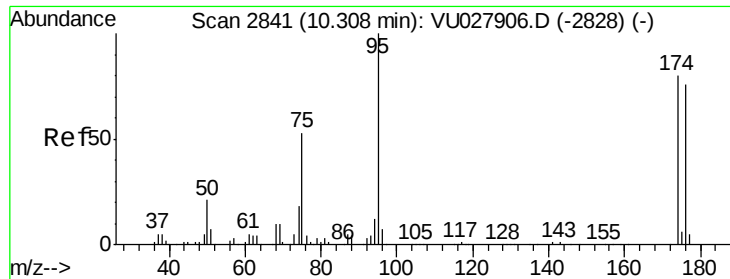
127 0.1 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

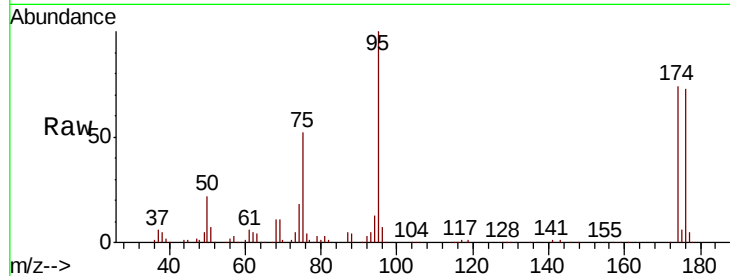




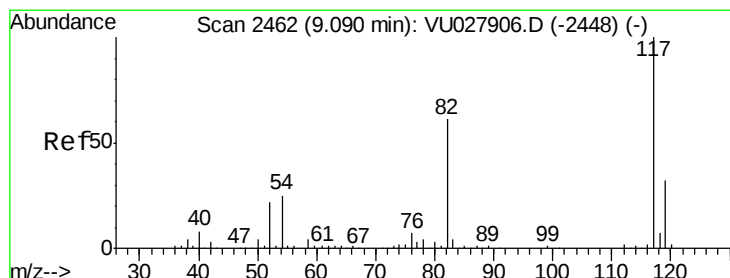
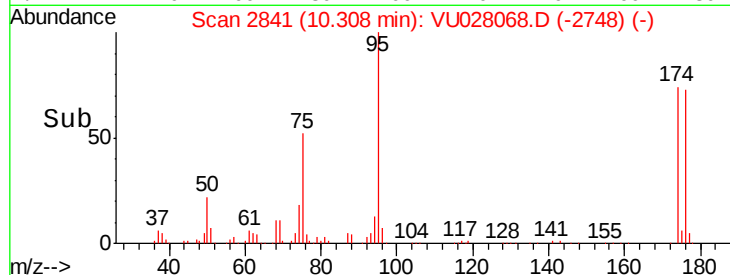
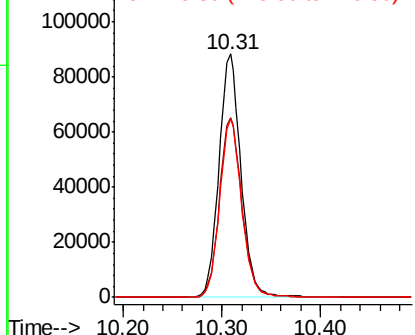
#62
4-Bromofluorobenzene
Concen: 47.202 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028068.D
Acq: 12 Nov 2018 16:33

Instrument :
MSVOA_U
ClientSampleId :
MW-1DL2

Tot Ion: 95 Resp: 138476
Ion Ratio Lower Upper
95 100
174 75.6 0.0 156.4
176 73.0 0.0 150.8

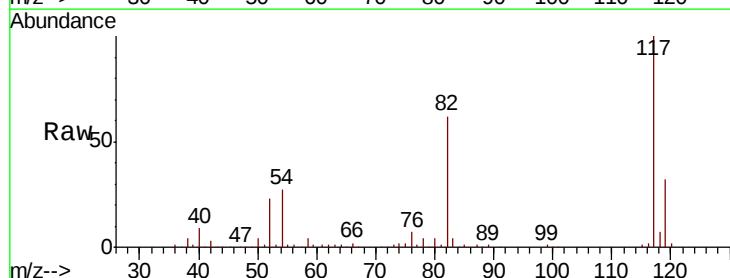


Abundance Ion 94.90 (94.60 to 95.60): VU0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

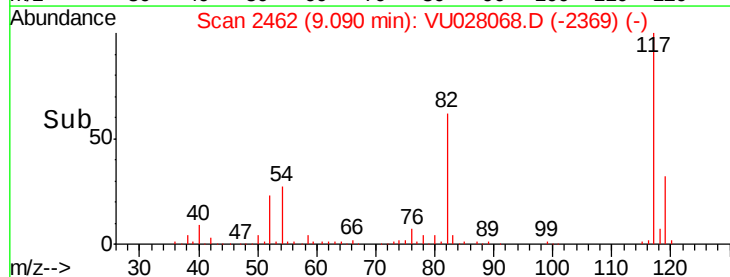
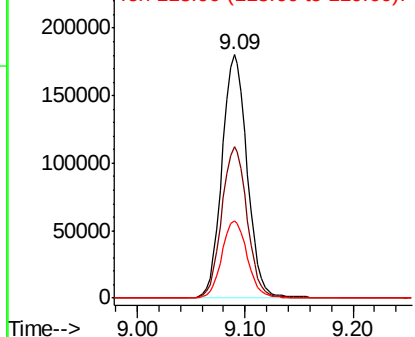


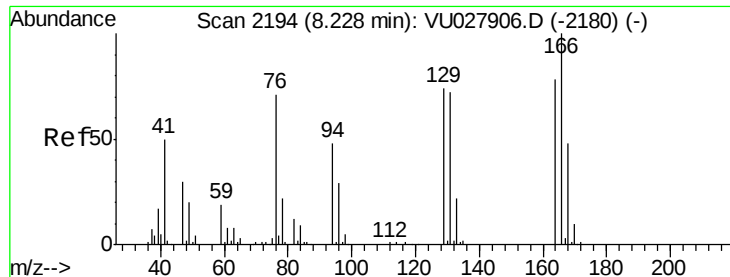
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028068.D
Acq: 12 Nov 2018 16:33

Tgt Ion: 117 Resp: 293324
Ion Ratio Lower Upper
117 100
82 62.1 48.6 73.0
119 31.7 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: 109.550 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

Instrument :
MSVOA_U
ClientSampleId :
MW-1DL2

Tot Ion:164 Resp: 208363

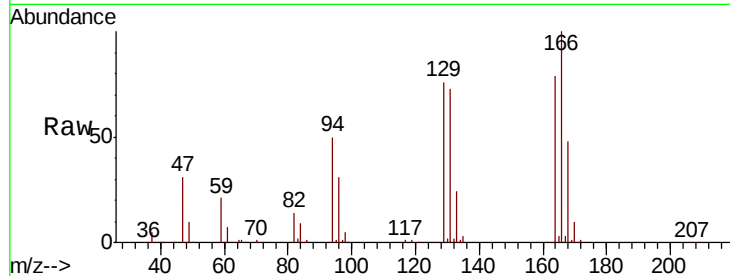
Ion Ratio Lower Upper

164 100

166 127.0 102.1 153.1

129 96.9 75.9 113.9

131 92.5 73.0 109.6



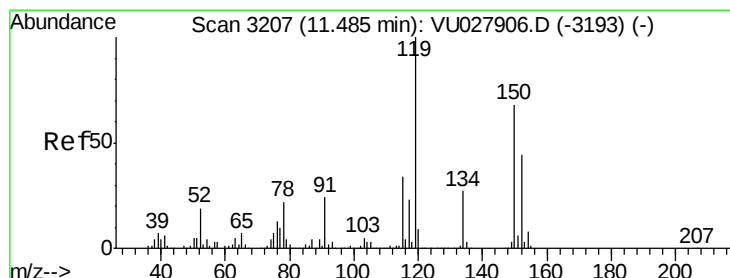
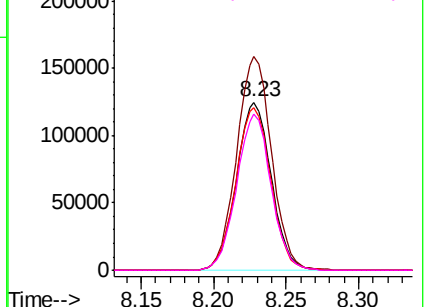
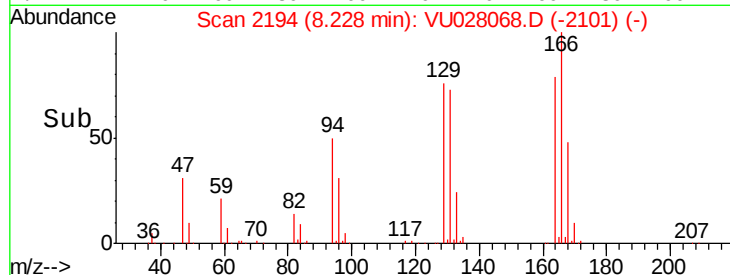
Abundance

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: 11.48 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

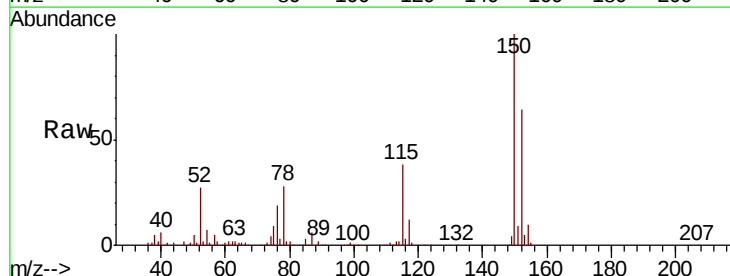
Tgt Ion:152 Resp: 114338

Ion Ratio Lower Upper

152 100

115 60.2 43.0 129.0

150 157.3 0.0 349.4

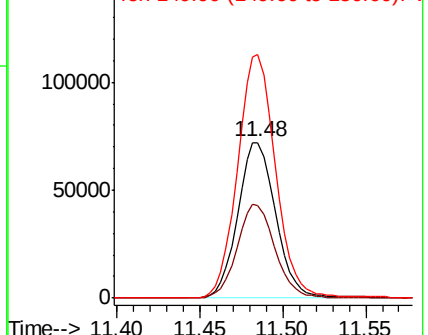
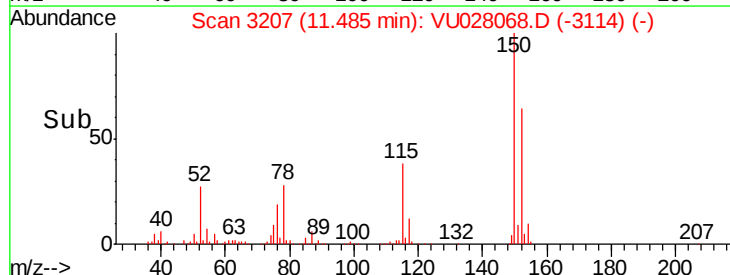


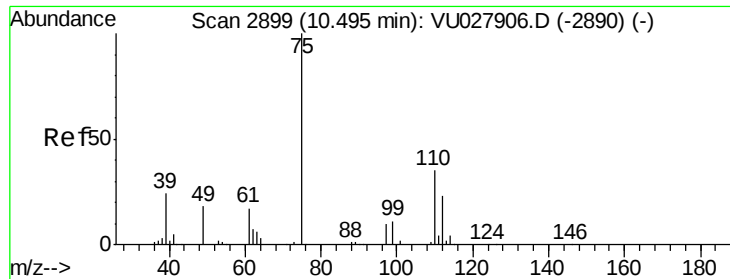
Abundance

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: 23.590 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

Instrument :

MSVOA_U

ClientSampled :

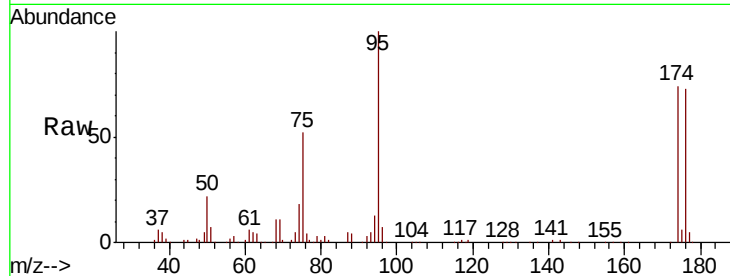
MW-1DL2

Tot Ion: 75 Resp: 73777

Ion Ratio Lower Upper

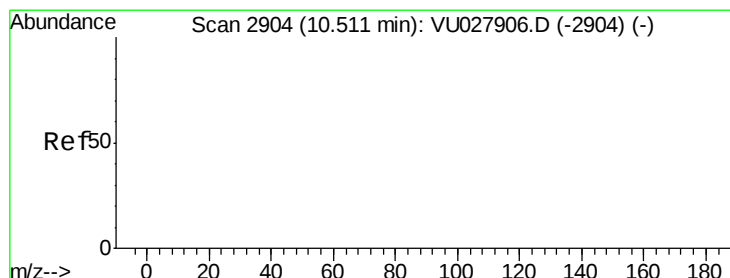
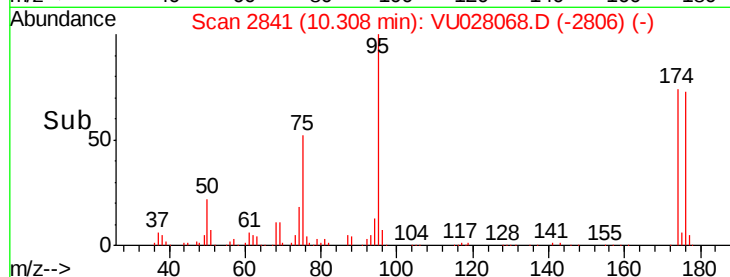
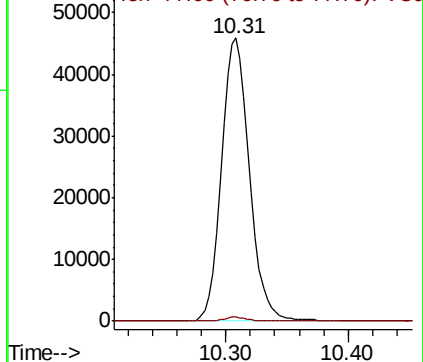
75 100

77 1.1 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: 58.852 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028068.D

Acq: 12 Nov 2018 16:33

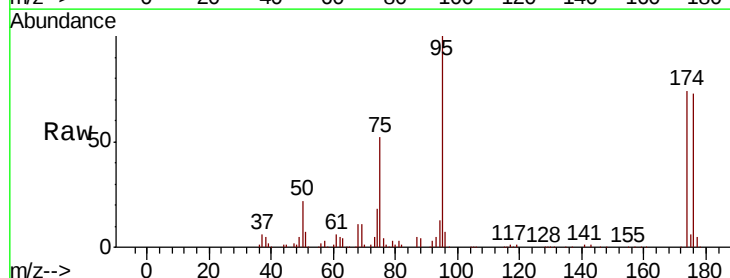
Tgt Ion: 75 Resp: 73777

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

