

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110218\
 Data File : VU027930.D
 Acq On : 02 Nov 2018 16:48
 Operator : MD/SY
 Sample : J5759-20
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-5

Quant Time: Nov 03 04:24:07 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

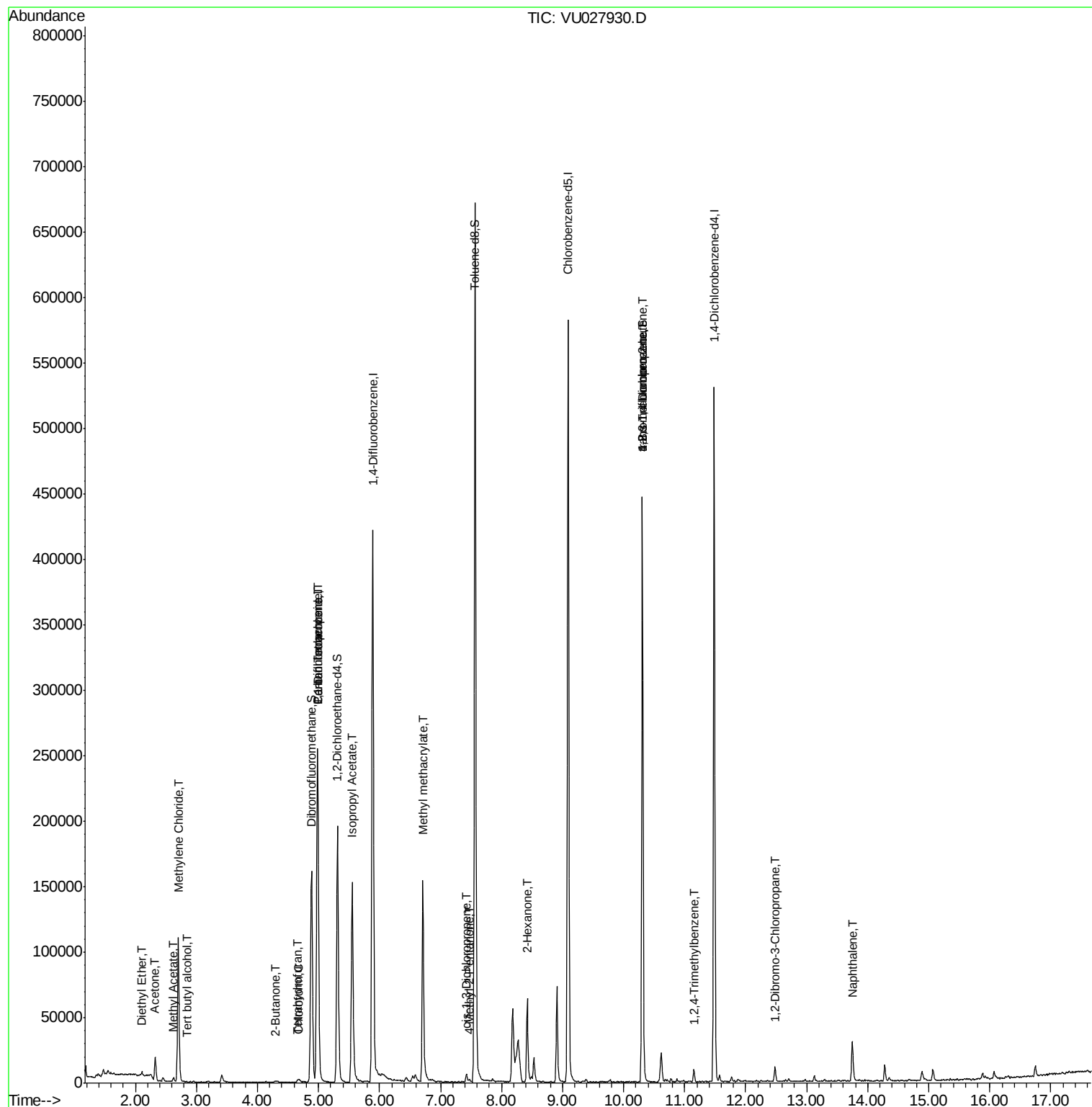
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	194298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	345461	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	303992	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	130220	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	148665	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
35) Dibromofluoromethane	4.89	113	110398	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
50) Toluene-d8	7.57	98	445061	52.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.78%	
62) 4-Bromofluorobenzene	10.31	95	145677	46.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.88%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.11	74	934	0.637	ug/l	97
11) Tert butyl alcohol	2.84	59	259	0.339	ug/l #	73
13) Acrolein	2.20	56	65	Below Cal	#	1
16) Acetone	2.32	43	18596	10.376	ug/l	94
18) Methyl Acetate	2.62	43	4341	0.880	ug/l	99
20) Methylene Chloride	2.70	84	44873	17.148	ug/l	95
25) 2-Butanone	4.30	43	2232	0.783	ug/l #	89
29) Tetrahydrofuran	4.66	42	1138	0.598	ug/l #	60
30) Chloroform	4.68	83	1805	0.385	ug/l	94
31) Cyclohexane	4.98	56	4807	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	17407	4.811	ug/l #	49
38) Carbon Tetrachloride	4.98	117	19240	6.000	ug/l #	16
43) Isopropyl Acetate	5.55	43	185398	22.322	ug/l	99
48) Methyl methacrylate	6.71	41	14069	3.457	ug/l #	47
51) 4-Methyl-2-Pentanone	7.47	43	1251	0.226	ug/l #	80
54) cis-1,3-Dichloropropene	7.43	75	1121	0.257	ug/l #	66
59) 2-Hexanone	8.42	43	10595	2.470	ug/l #	49
76) 1,2,3-Trichloropropane	10.31	75	75449	21.182	ug/l #	34
81) trans-1,4-Dichloro-2-buten	10.31	75	75449	52.873	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	5965	0.709	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	12.48	75	373	0.435	ug/l #	4
95) Naphthalene	13.75	128	28584	2.504	ug/l	98

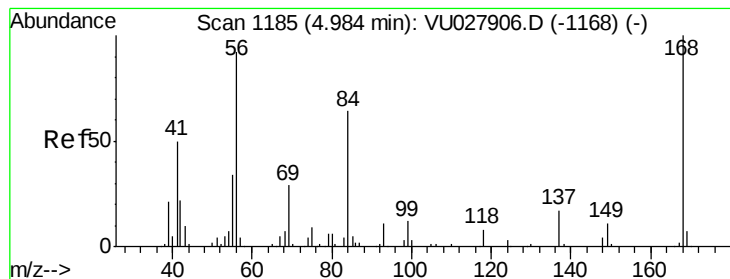
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU027930.D

Acq: 02 Nov 2018 16:48

Instrument :

MSVOA_U

ClientSampleId :

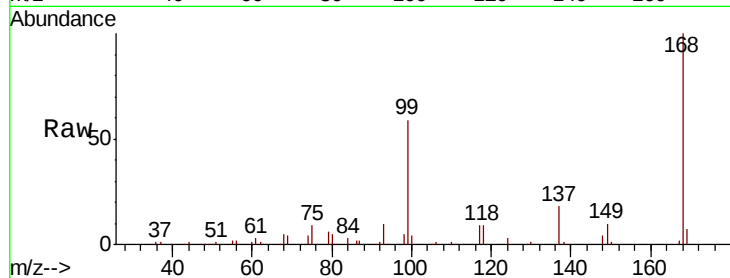
TP-5

Tot Ion:168 Resp: 194298

Ion Ratio Lower Upper

168 100

99 58.6 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

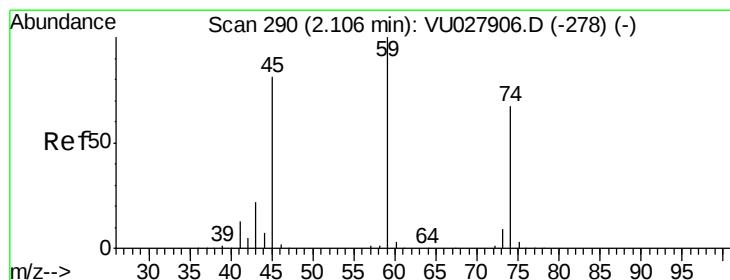
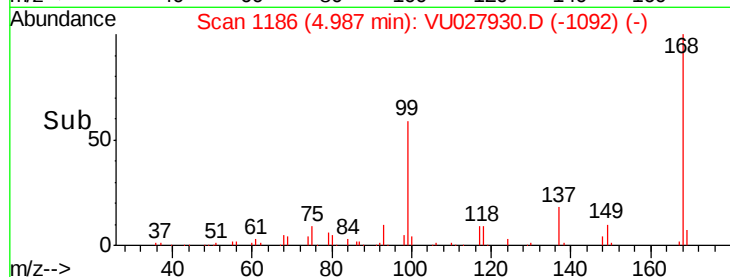
40000

20000

0

4.90 5.00 5.10

Time-->



#8

Diethyl Ether

Concen: 0.637 ug/l

RT: 2.11 min Scan# 290

Delta R.T. -0.00 min

Lab File: VU027930.D

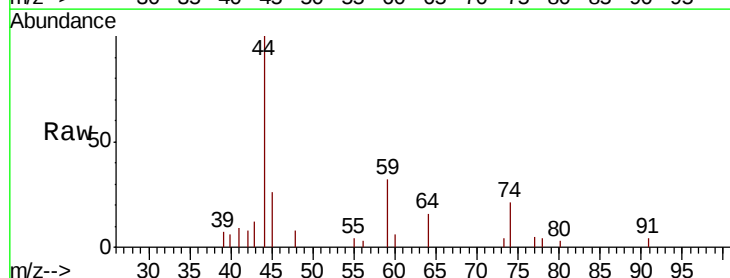
Acq: 02 Nov 2018 16:48

Tgt Ion: 74 Resp: 934

Ion Ratio Lower Upper

74 100

45 123.9 60.5 181.5



Abundance Ion 74.00 (73.70 to 74.70): VU027906.D (-278) (-)

Ion 45.00 (44.70 to 45.70): VU027906.D (-278) (-)

2.11

1000

800

600

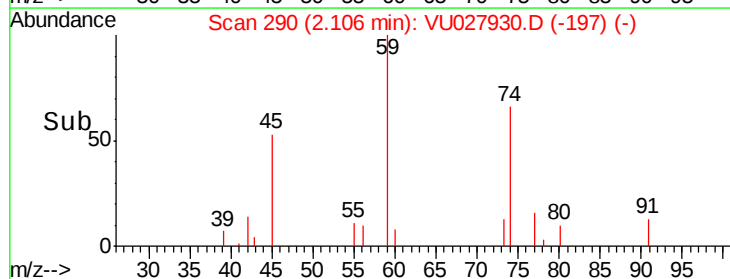
400

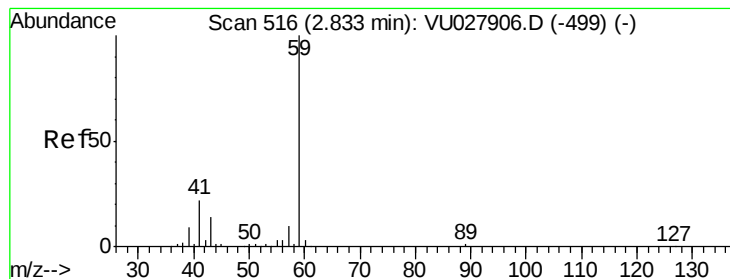
200

0

2.06 2.08 2.10 2.12 2.14

Time-->



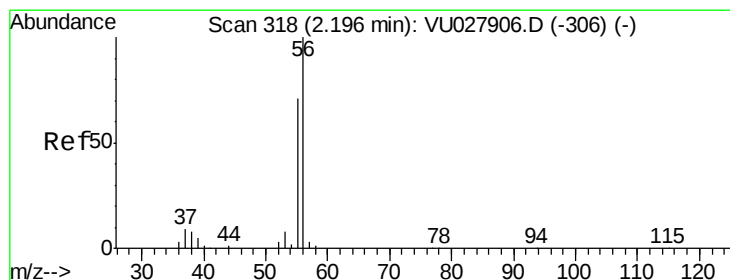
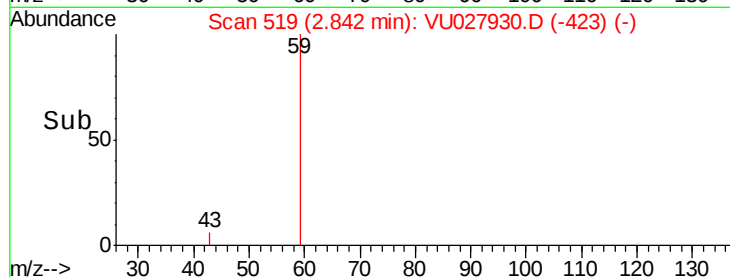
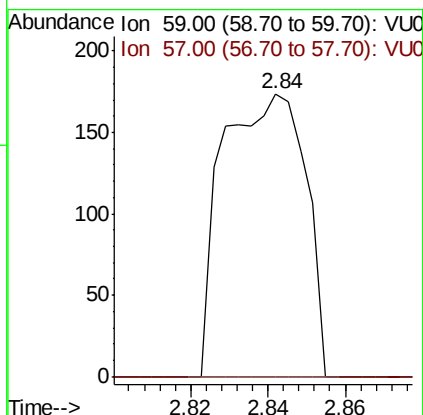
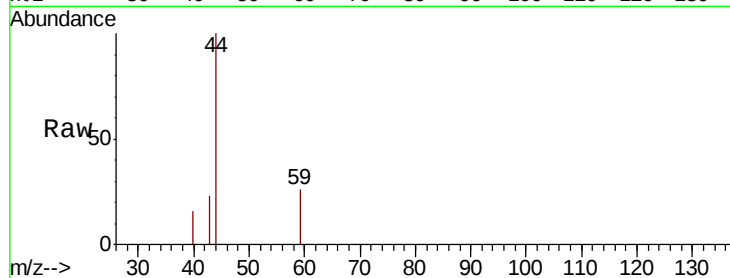


#11

Tert butyl alcohol
 Concen: 0.339 ug/l
 RT: 2.84 min Scan# 519
 Delta R.T. 0.01 min
 Lab File: VU027930.D
 Acq: 02 Nov 2018 16:48

Instrument :
 MSVOA_U
 ClientSampled :
 TP-5

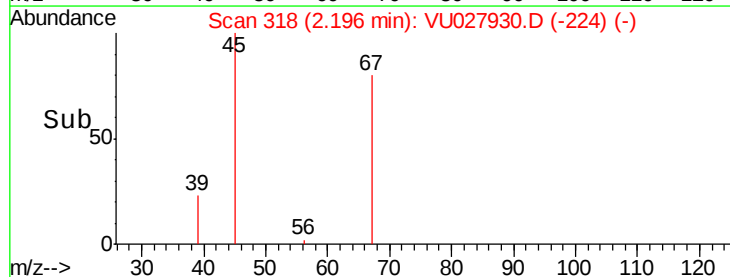
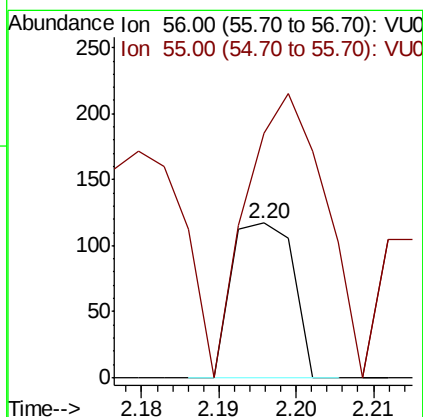
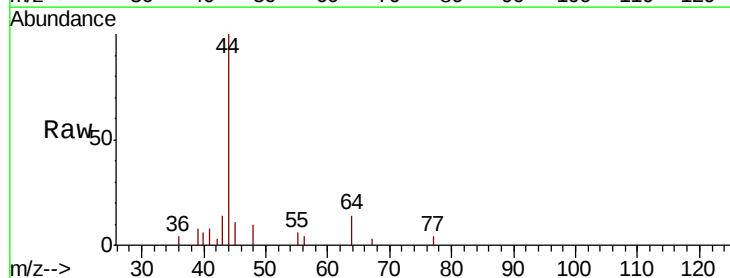
Tot Ion: 59 Resp: 259
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

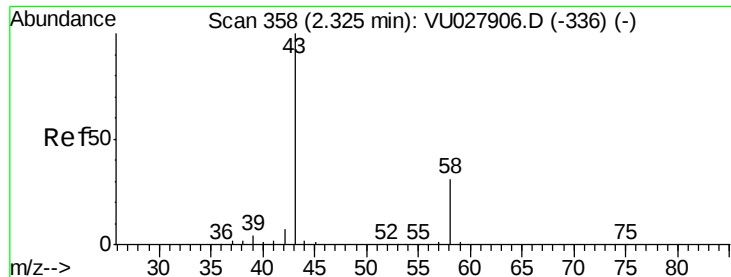


#13

Acrolein
 Concen: Below Cal
 RT: 2.20 min Scan# 318
 Delta R.T. 0.00 min
 Lab File: VU027930.D
 Acq: 02 Nov 2018 16:48

Tgt Ion: 56 Resp: 65
 Ion Ratio Lower Upper
 56 100
 55 233.8 56.2 84.4#





#16

Acetone

Concen: 10.376 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

Instrument :

MSVOA_U

ClientSampleId :

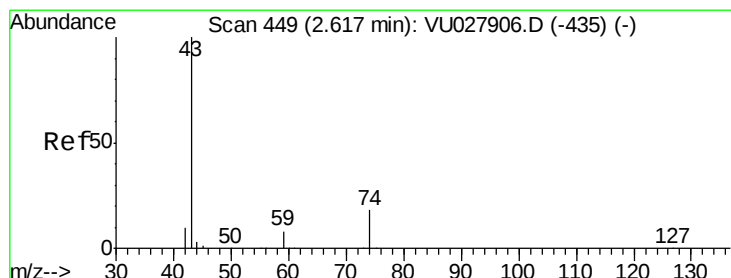
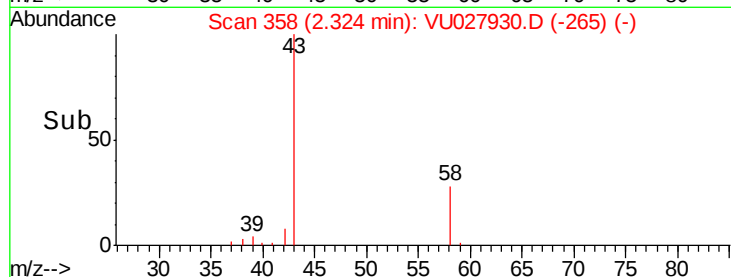
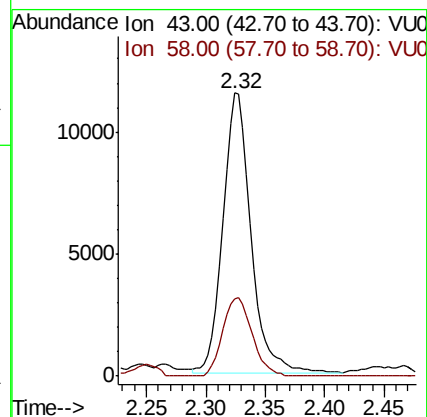
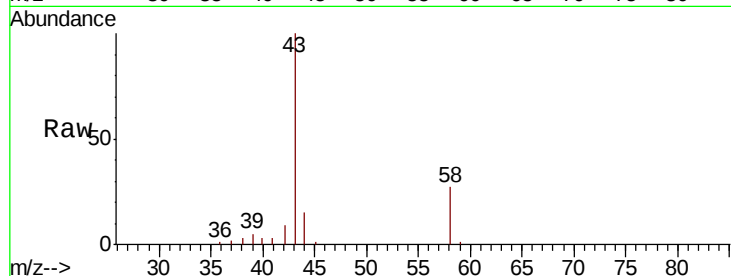
TP-5

Tot Ion: 43 Resp: 18596

Ion Ratio Lower Upper

43 100

58 27.7 24.6 37.0



#18

Methyl Acetate

Concen: 0.880 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU027930.D

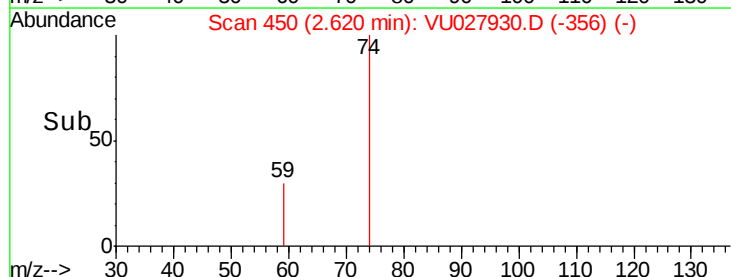
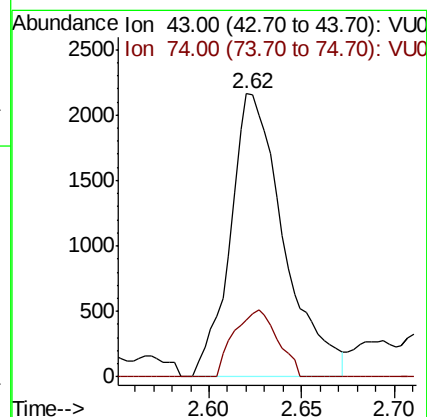
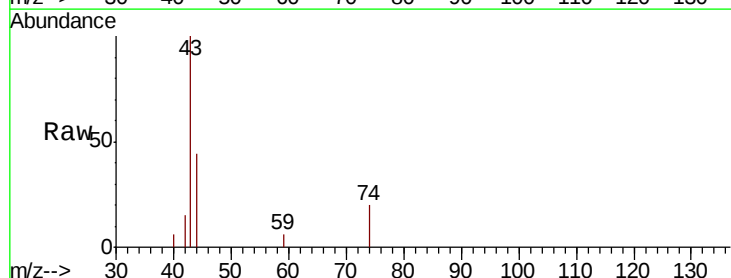
Acq: 02 Nov 2018 16:48

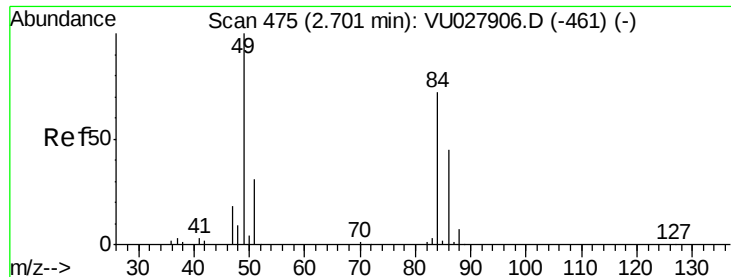
Tgt Ion: 43 Resp: 4341

Ion Ratio Lower Upper

43 100

74 19.1 14.9 22.3

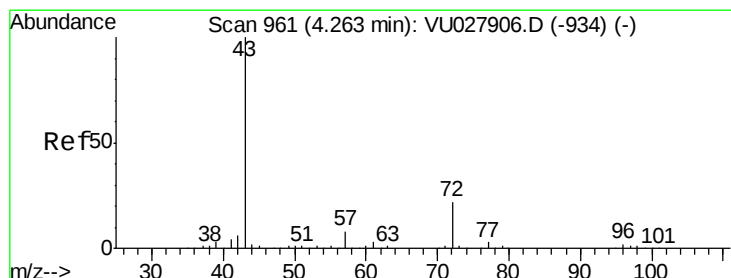
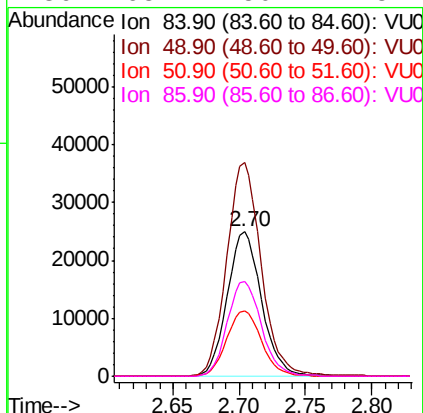
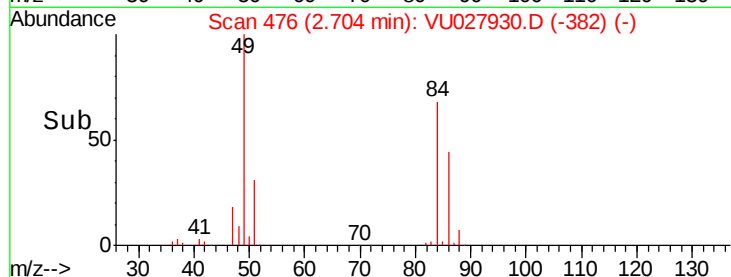
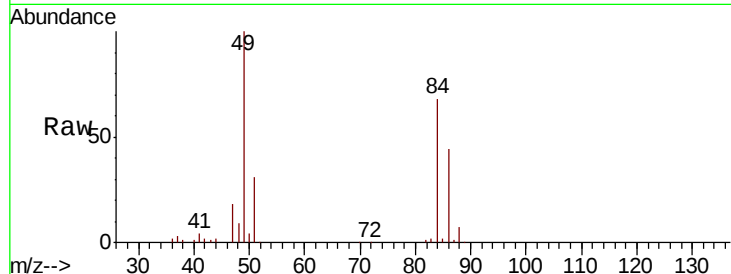




#20
Methvlene Chloride
Concen: 17.148 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027930.D
Acq: 02 Nov 2018 16:48

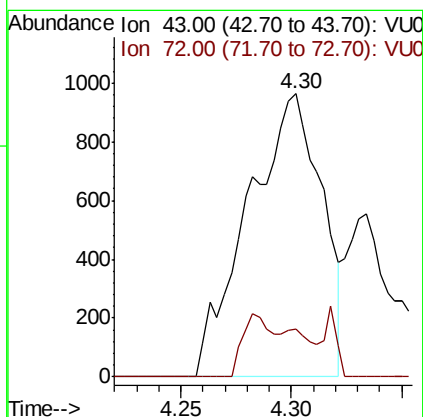
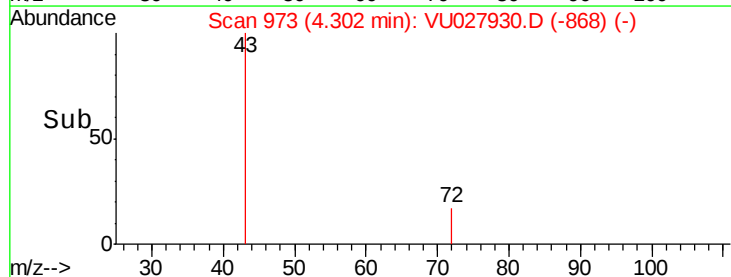
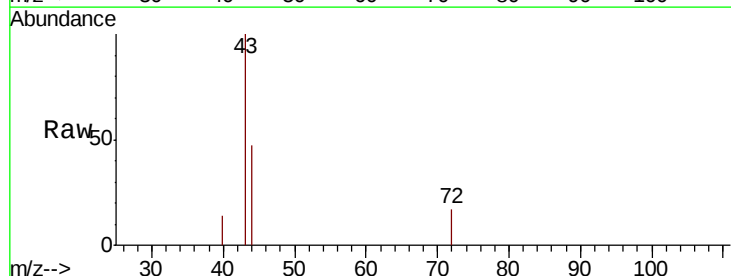
Instrument :
MSVOA_U
ClientSampleId :
TP-5

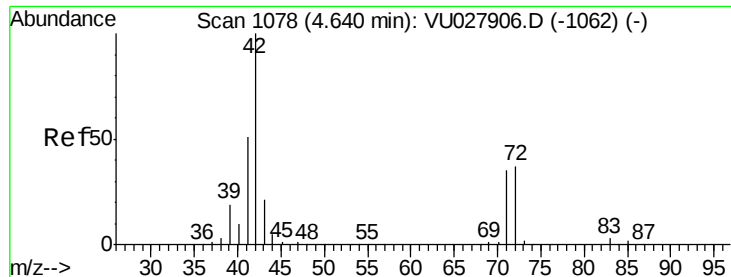
Tot Ion: 84 Resp: 44873
Ion Ratio Lower Upper
84 100
49 147.8 111.6 167.4
51 45.1 34.8 52.2
86 65.1 50.1 75.1



#25
2-Butanone
Concen: 0.783 ug/l
RT: 4.30 min Scan# 973
Delta R.T. 0.04 min
Lab File: VU027930.D
Acq: 02 Nov 2018 16:48

Tgt Ion: 43 Resp: 2232
Ion Ratio Lower Upper
43 100
72 16.8 17.7 26.5#





#29

Tetrahydrofuran

Concen: 0.598 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

Instrument :

MSVOA_U

ClientSampleId :

TP-5

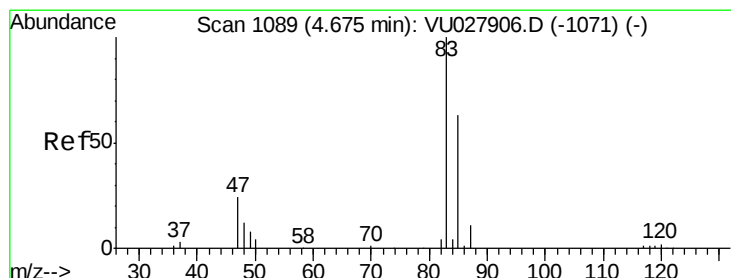
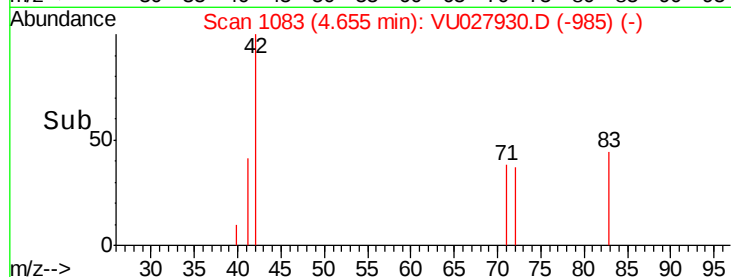
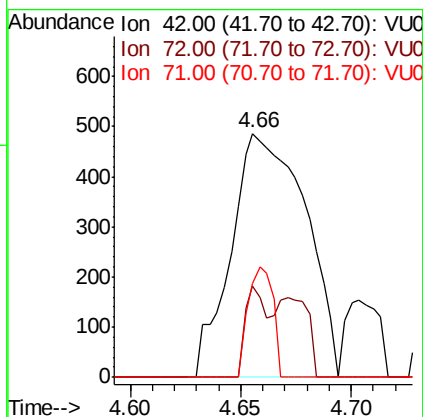
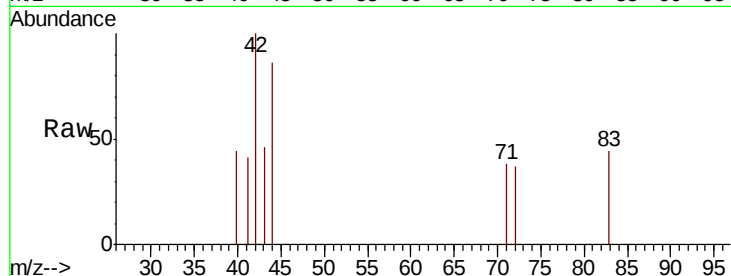
Tot Ion: 42 Resp: 1138

Ion Ratio Lower Upper

42 100

72 10.1 29.4 44.0#

71 15.2 27.9 41.9#



#30

Chloroform

Concen: 0.385 ug/l

RT: 4.68 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VU027930.D

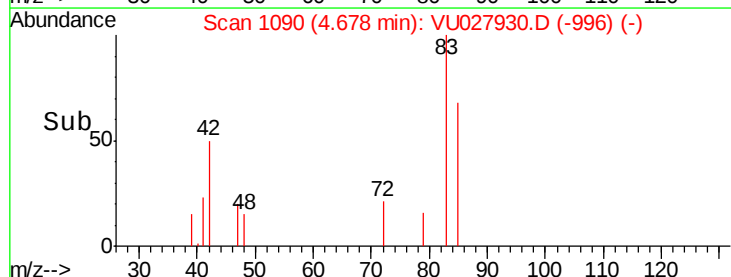
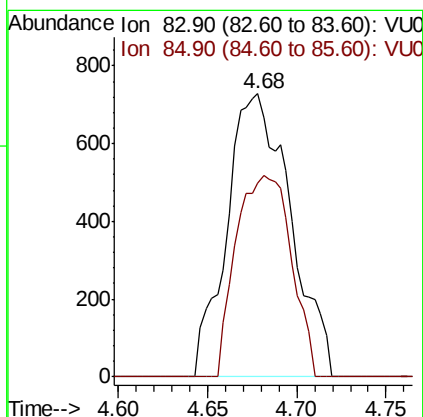
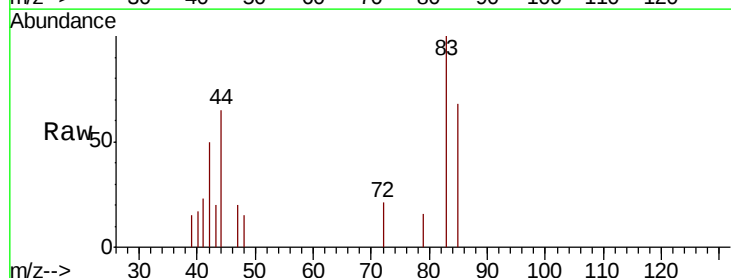
Acq: 02 Nov 2018 16:48

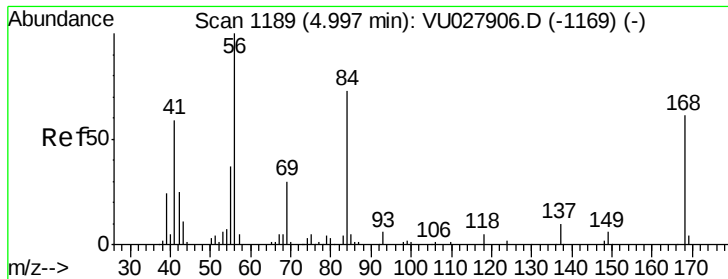
Tgt Ion: 83 Resp: 1805

Ion Ratio Lower Upper

83 100

85 68.3 50.6 76.0

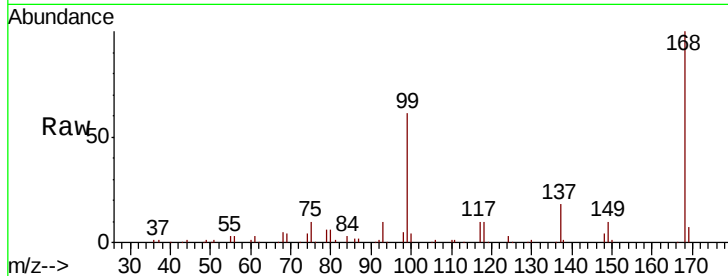




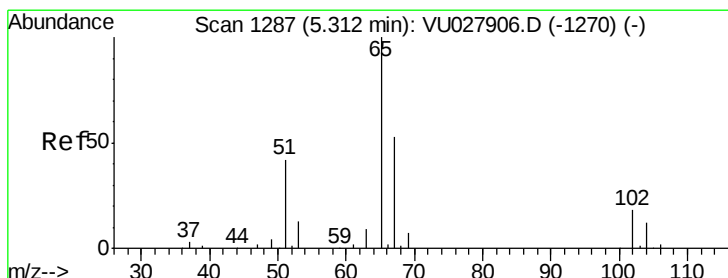
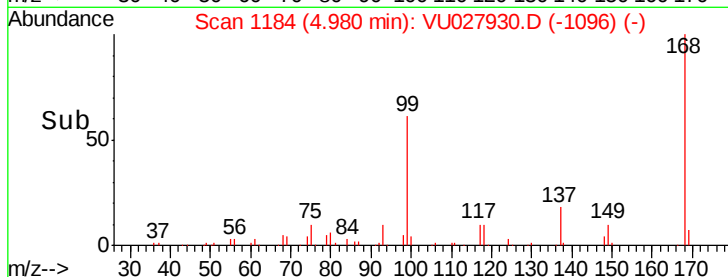
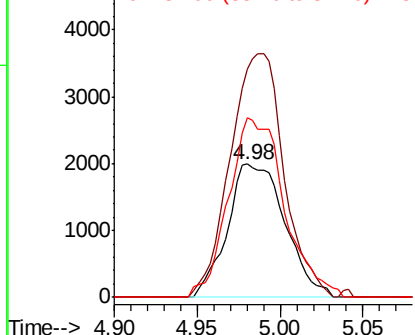
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.02 min
Lab File: VU027930.D
Acq: 02 Nov 2018 16:48

Instrument :
MSVOA_U
ClientSampled :
TP-5

Tot Ion: 56 Resp: 4807
Ion Ratio Lower Upper
56 100
69 171.6 23.7 35.5#
84 134.7 58.2 87.4#

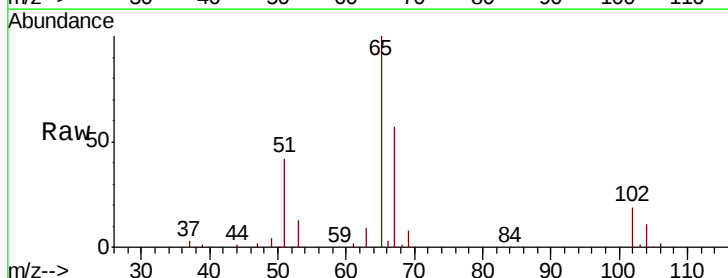


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

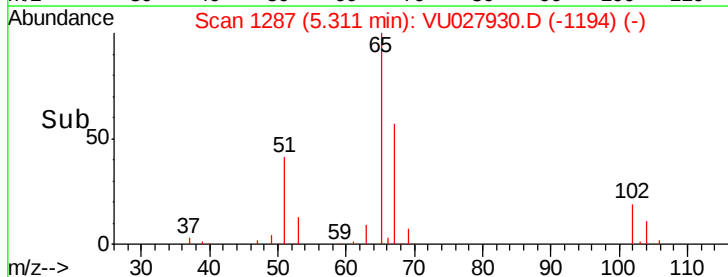
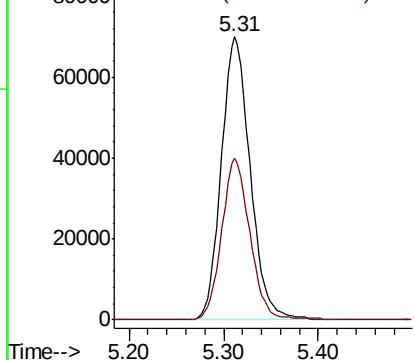


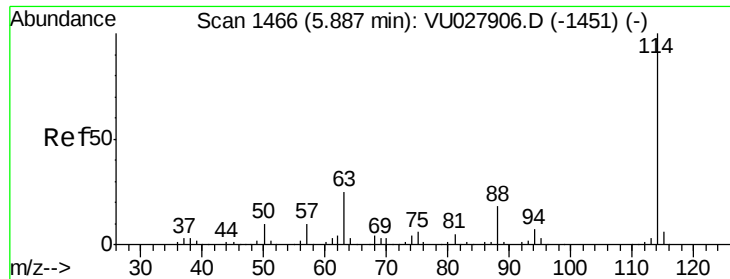
#33
1,2-Dichloroethane-d4
Concen: 51.464 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VU027930.D
Acq: 02 Nov 2018 16:48

Tgt Ion: 65 Resp: 148665
Ion Ratio Lower Upper
65 100
67 55.6 0.0 109.0



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

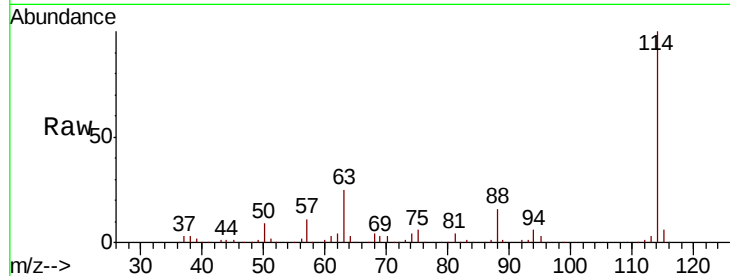




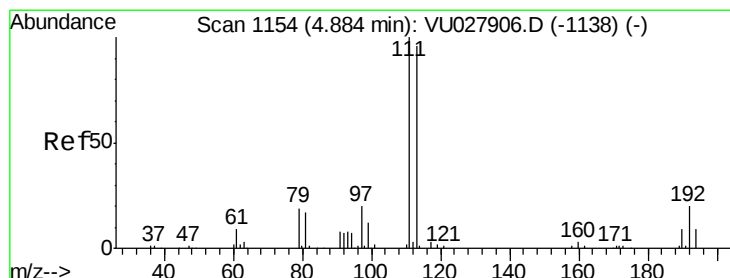
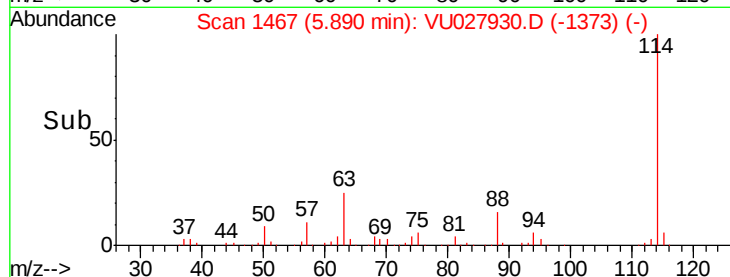
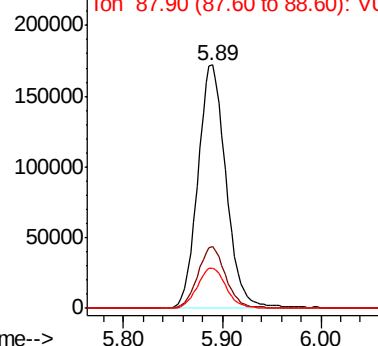
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027930.D
 Acq: 02 Nov 2018 16:48

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-5

Tot Ion:114 Resp: 345461
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 50.8
 88 16.4 0.0 35.8

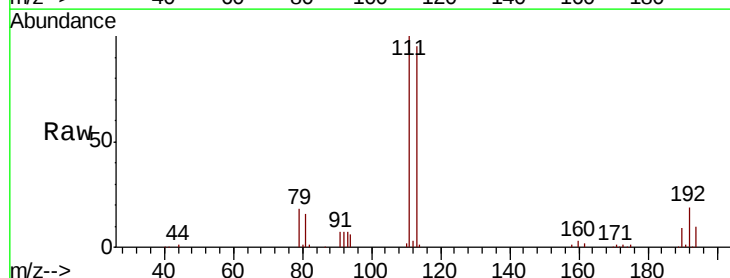


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

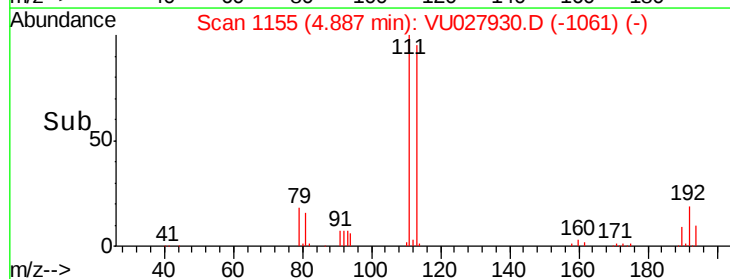
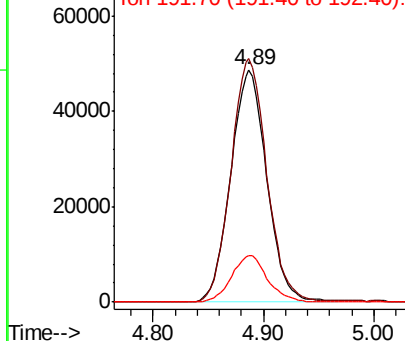


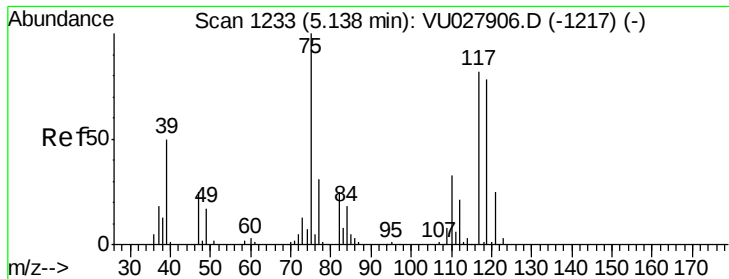
#35
 Dibromofluoromethane
 Concen: 50.683 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027930.D
 Acq: 02 Nov 2018 16:48

Tgt Ion:113 Resp: 110398
 Ion Ratio Lower Upper
 113 100
 111 104.2 83.0 124.6
 192 19.9 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

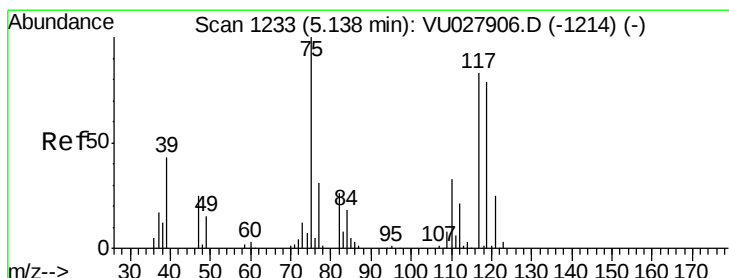
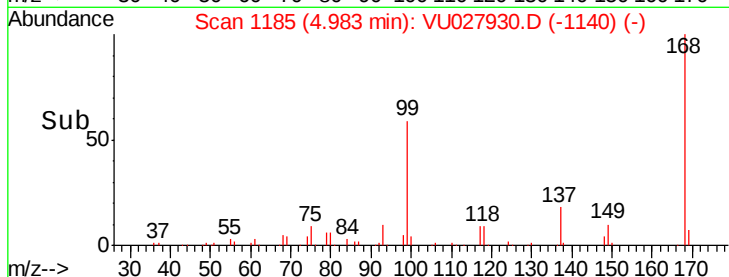
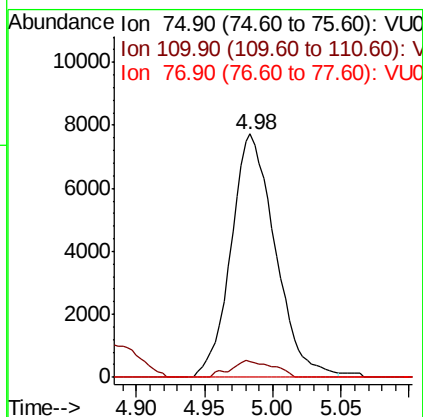
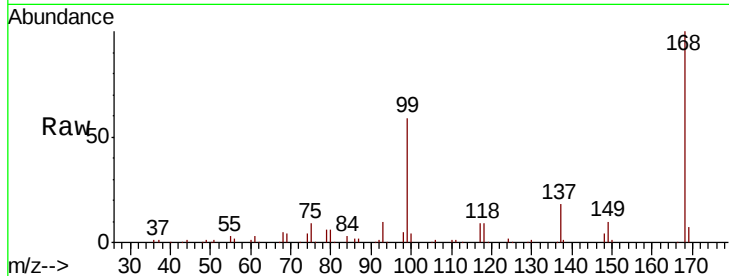




#36
 1,1-Dichloropropene
 Concen: 4.811 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027930.D
 Acq: 02 Nov 2018 16:48

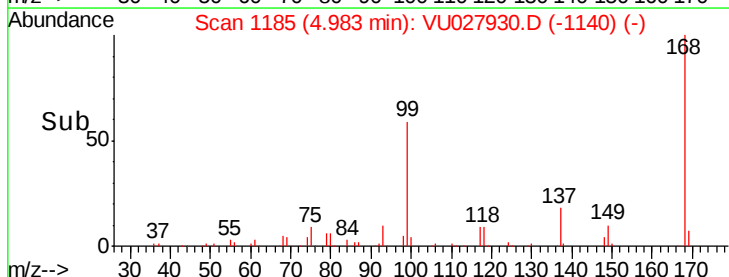
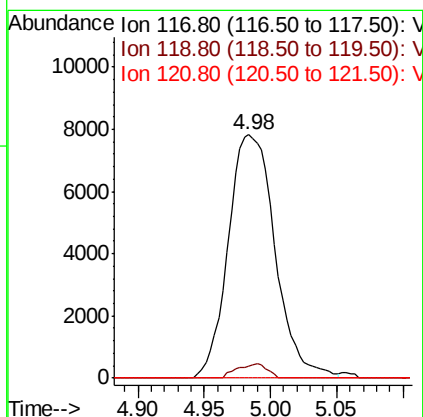
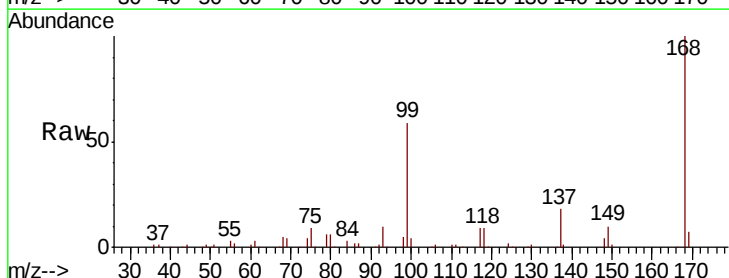
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-5

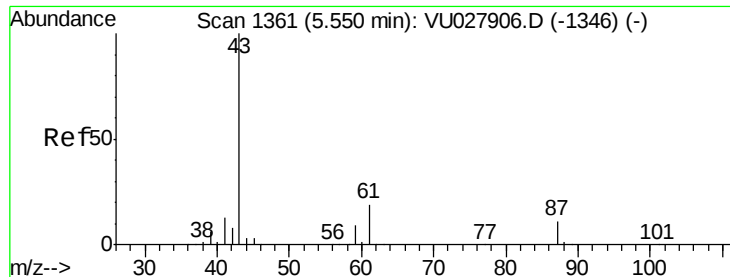
Tot Ion: 75 Resp: 17407
 Ion Ratio Lower Upper
 75 100
 110 6.6 16.5 49.5#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.000 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027930.D
 Acq: 02 Nov 2018 16:48

Tgt Ion: 117 Resp: 19240
 Ion Ratio Lower Upper
 117 100
 119 4.7 76.0 114.0#
 121 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 22.322 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

Instrument :

MSVOA_U

ClientSampled :

TP-5

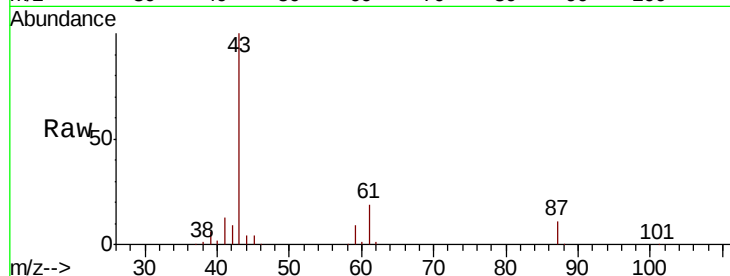
Tot Ion: 43 Resp: 185398

Ion Ratio Lower Upper

43 100

61 18.1 15.0 22.4

87 10.4 8.6 12.8



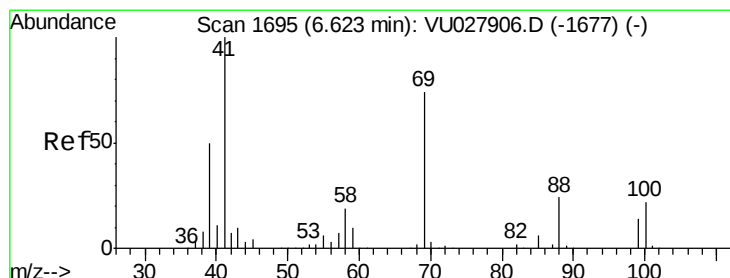
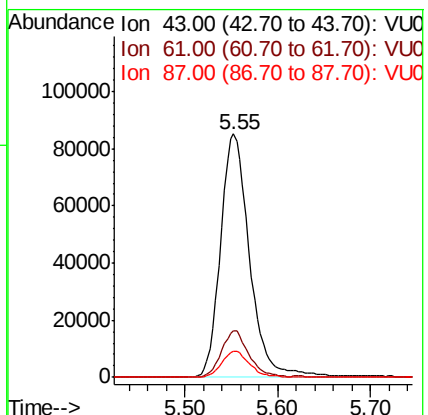
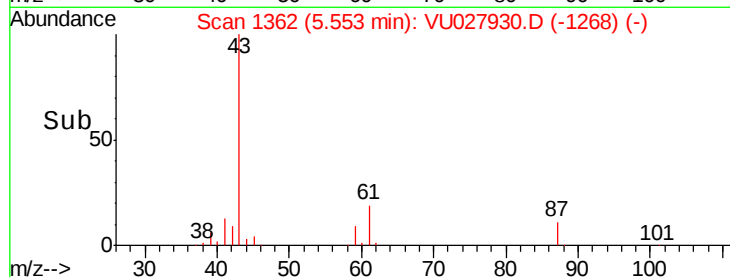
Abundance Ion 43.00 (42.70 to 43.70): VU027930.D (-1602) (-)

Ion 61.00 (60.70 to 61.70): VU027930.D (-1602) (-)

Ion 87.00 (86.70 to 87.70): VU027930.D (-1602) (-)

5.55

Time-->



#48

Methyl methacrylate

Concen: 3.457 ug/l

RT: 6.71 min Scan# 1722

Delta R.T. 0.09 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

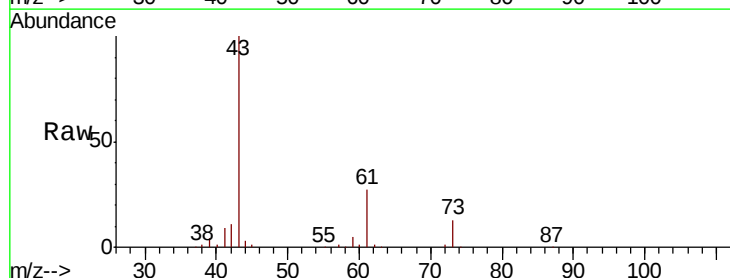
Tgt Ion: 41 Resp: 14069

Ion Ratio Lower Upper

41 100

69 0.0 59.8 89.8#

39 49.6 40.0 60.0



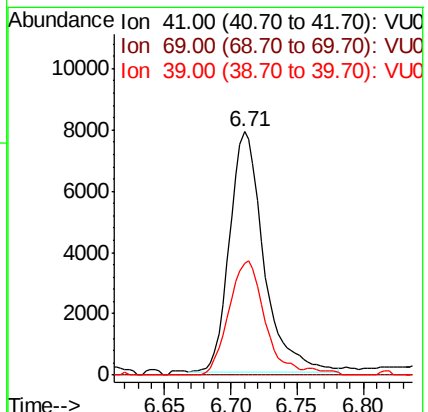
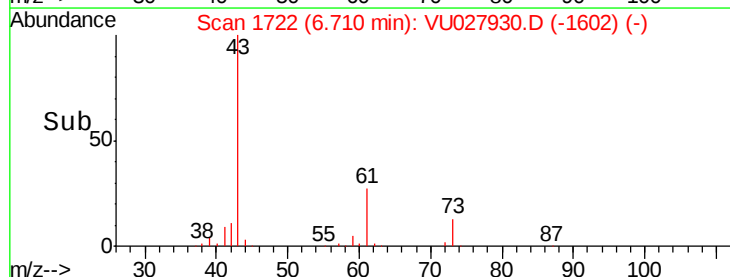
Abundance Ion 41.00 (40.70 to 41.70): VU027930.D (-1602) (-)

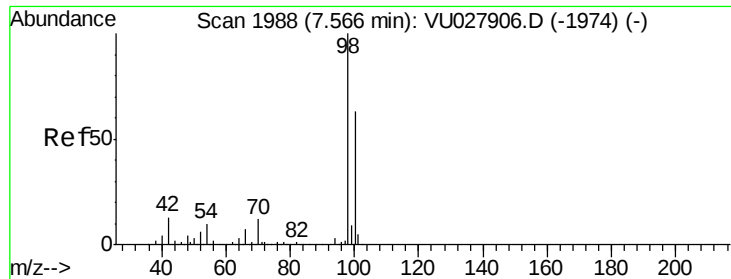
Ion 69.00 (68.70 to 69.70): VU027930.D (-1602) (-)

Ion 39.00 (38.70 to 39.70): VU027930.D (-1602) (-)

6.71

Time-->





#50

Toluene-d8

Concen: 52.894 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

Instrument :

MSVOA_U

ClientSampleId :

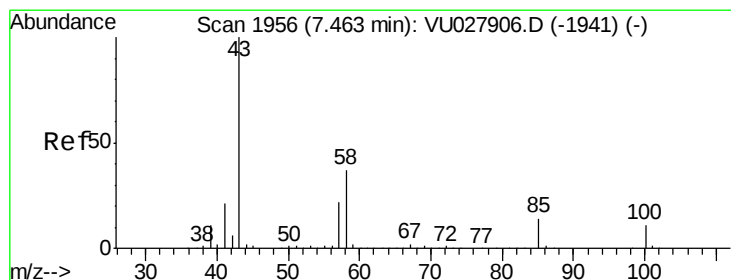
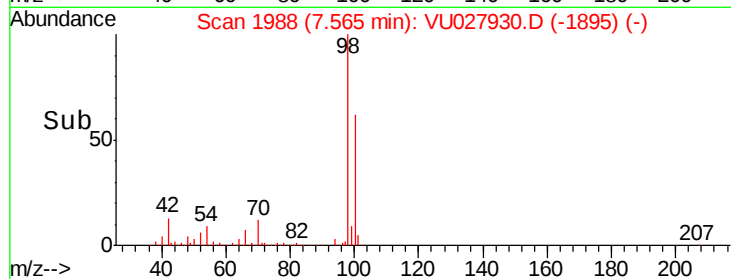
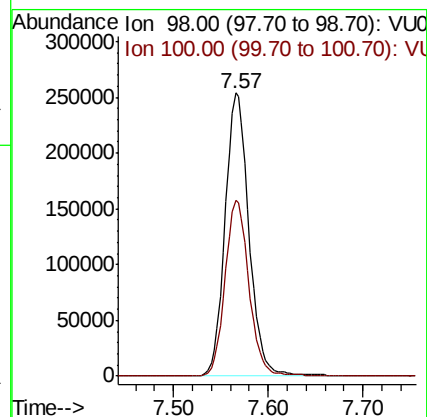
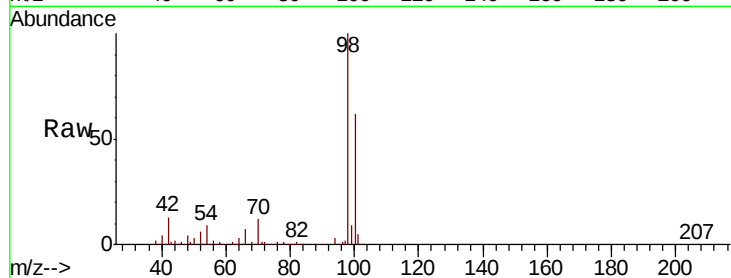
TP-5

Tot Ion: 98 Resp: 445061

Ion Ratio Lower Upper

98 100

100 62.5 50.1 75.1



#51

4-Methyl-2-Pentanone

Concen: 0.226 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU027930.D

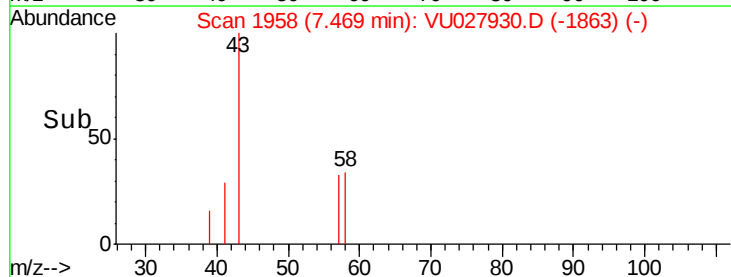
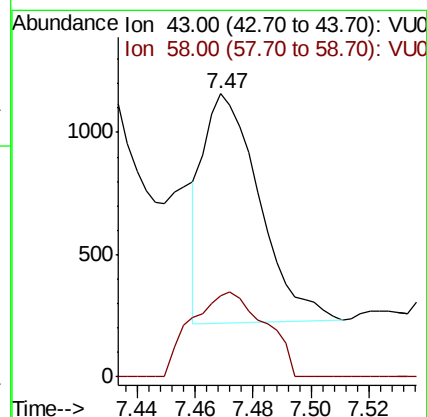
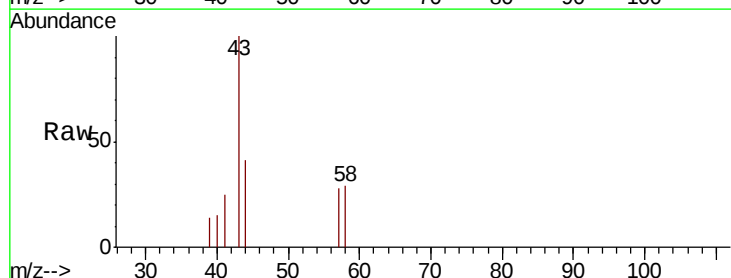
Acq: 02 Nov 2018 16:48

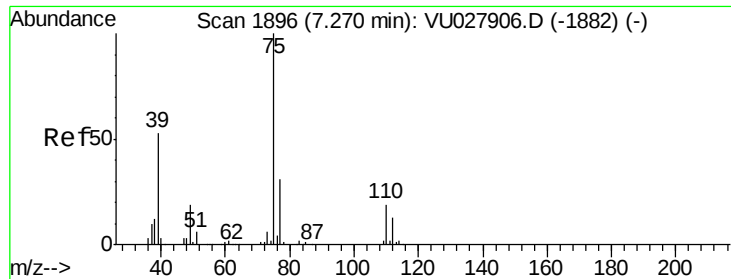
Tgt Ion: 43 Resp: 1251

Ion Ratio Lower Upper

43 100

58 49.0 29.5 44.3#





#54

cis-1,3-Dichloropropene

Concen: 0.257 ug/l

RT: 7.43 min Scan# 1945

Delta R.T. 0.16 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

Instrument :

MSVOA_U

ClientSampleId :

TP-5

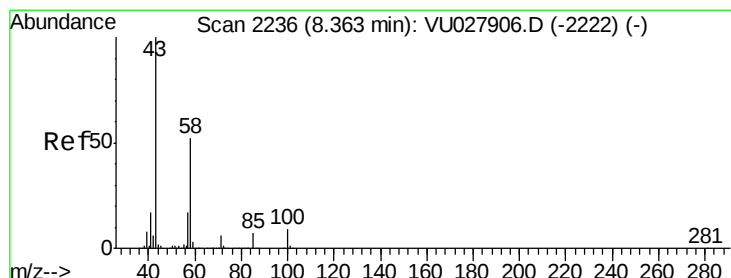
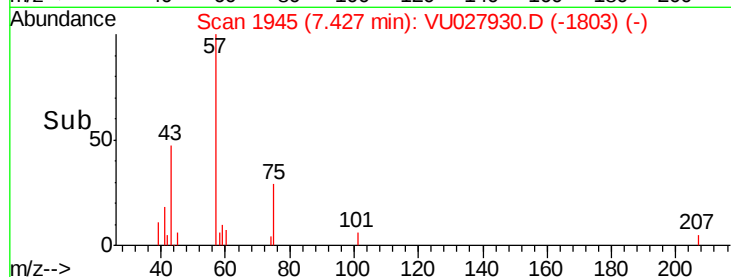
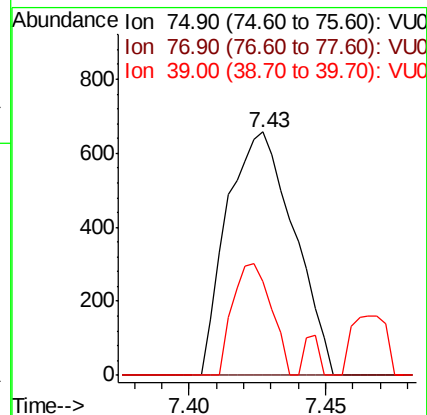
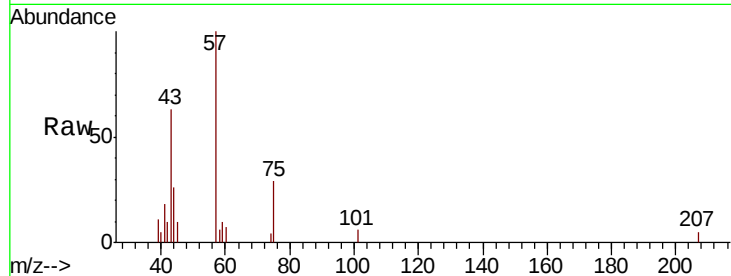
Tot Ion: 75 Resp: 1121

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 38.3 42.6 64.0#



#59

2-Hexanone

Concen: 2.470 ug/l

RT: 8.42 min Scan# 2254

Delta R.T. 0.06 min

Lab File: VU027930.D

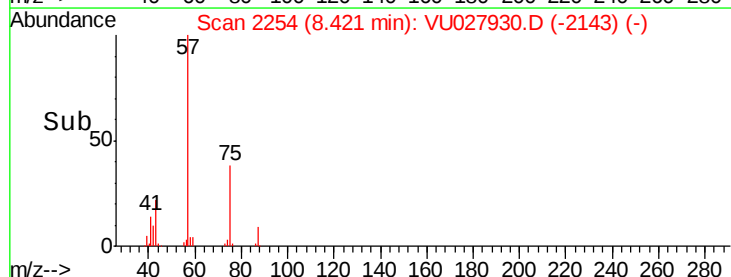
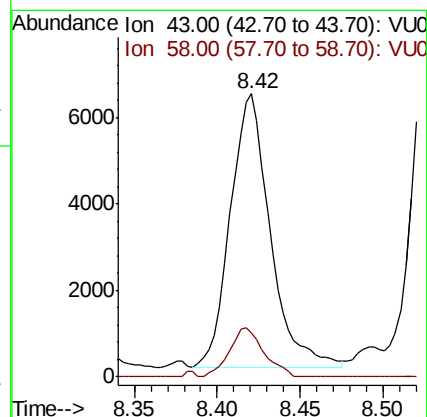
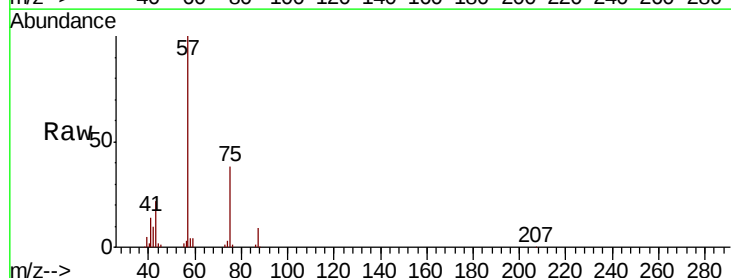
Acq: 02 Nov 2018 16:48

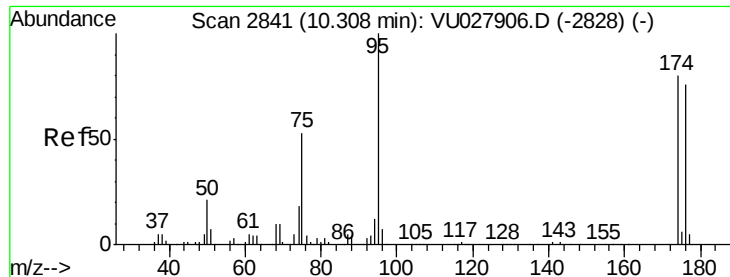
Tgt Ion: 43 Resp: 10595

Ion Ratio Lower Upper

43 100

58 15.5 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 46.939 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

Instrument :

MSVOA_U

ClientSampleId :

TP-5

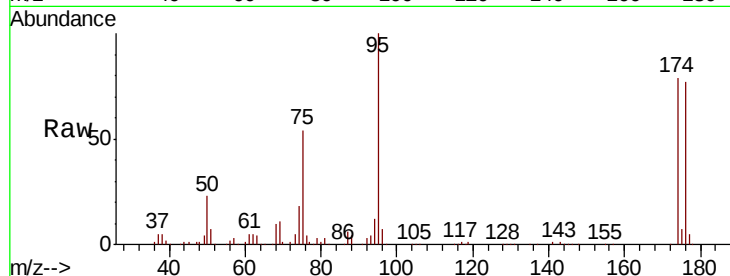
Tot Ion: 95 Resp: 145677

Ion Ratio Lower Upper

95 100

174 78.4 0.0 156.4

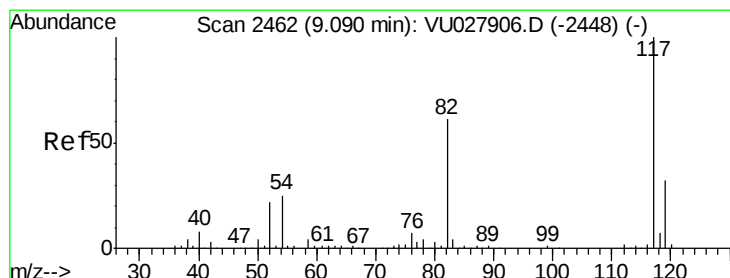
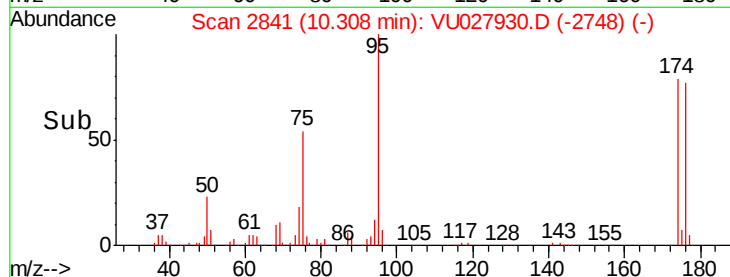
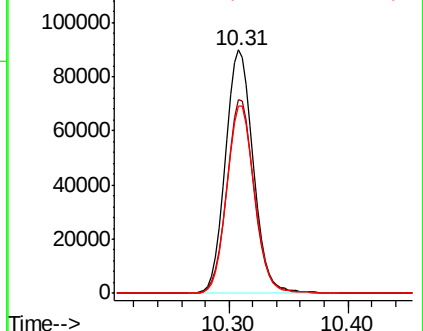
176 76.9 0.0 150.8



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: VU027930.D

Acq: 02 Nov 2018 16:48

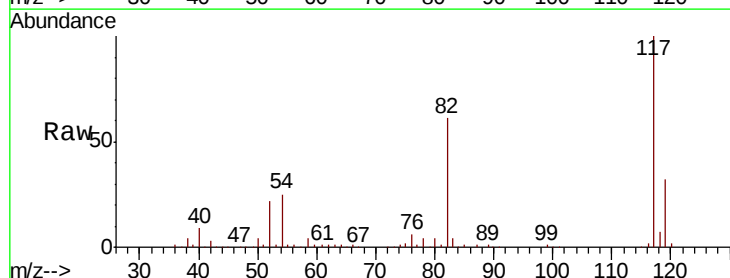
Tgt Ion: 117 Resp: 303992

Ion Ratio Lower Upper

117 100

82 61.4 48.6 73.0

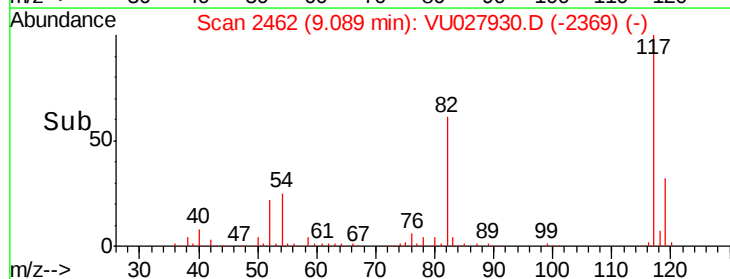
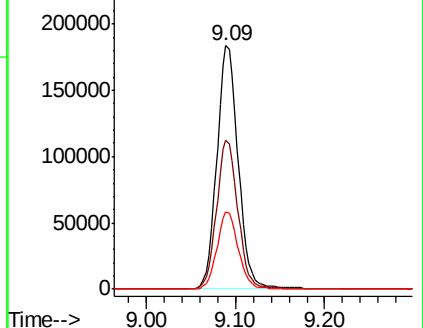
119 31.8 25.8 38.8

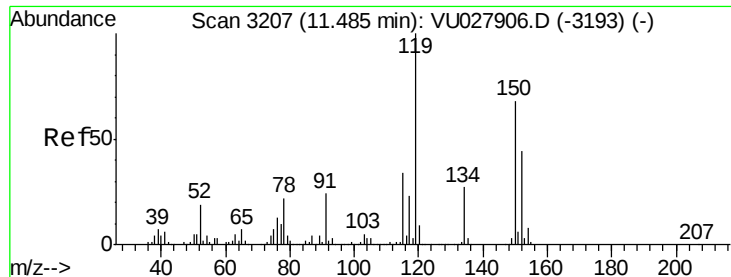


Abundance Ion 116.90 (116.60 to 117.60): VU027906.D (-2448) (-)

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

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



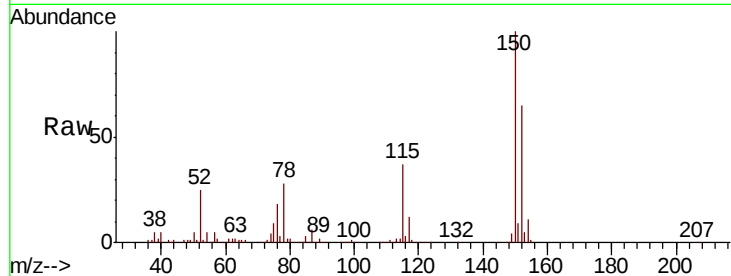


#72

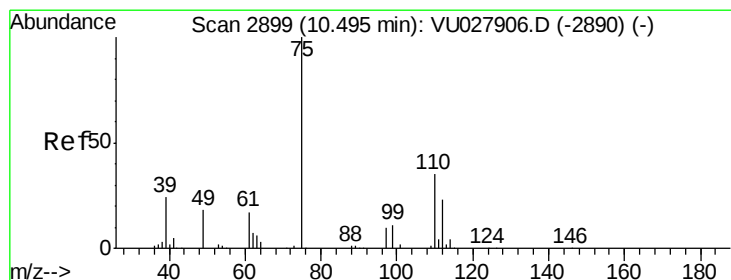
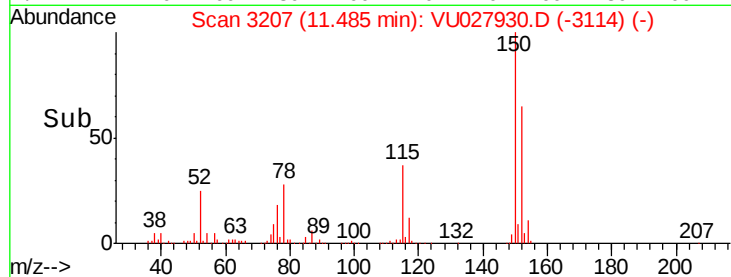
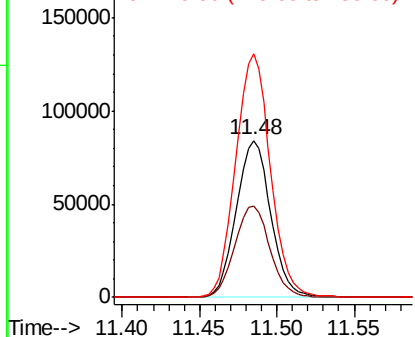
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027930.D
Acq: 02 Nov 2018 16:48

Instrument :
MSVOA_U
ClientSampleId :
TP-5

Tot Ion:152 Resp: 130220
Ion Ratio Lower Upper
152 100
115 59.8 43.0 129.0
150 156.4 0.0 349.4



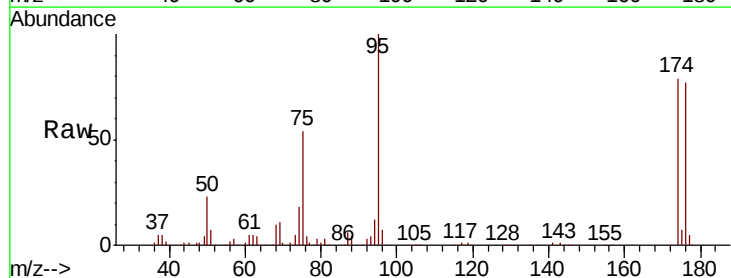
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



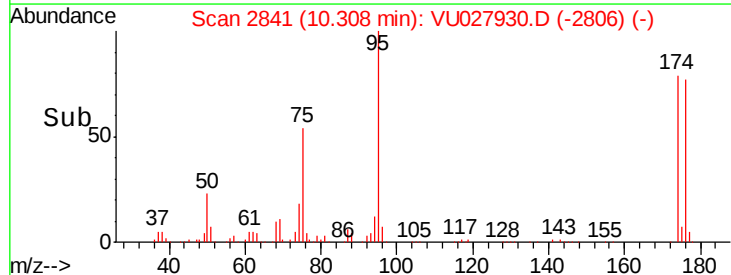
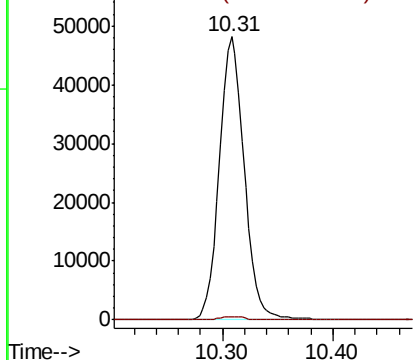
#76

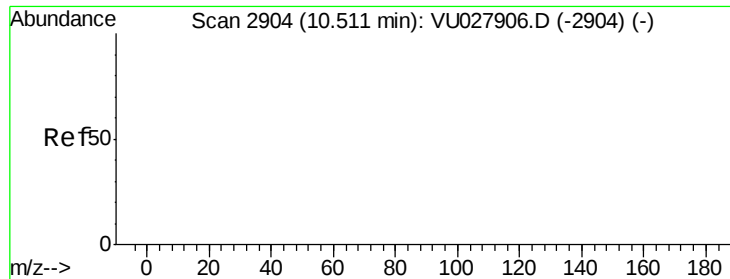
1,2,3-Trichloropropane
Concen: 21.182 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU027930.D
Acq: 02 Nov 2018 16:48

Tgt Ion: 75 Resp: 75449
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: 52.873 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

Instrument :

MSVOA_U

ClientSampleId :

TP-5

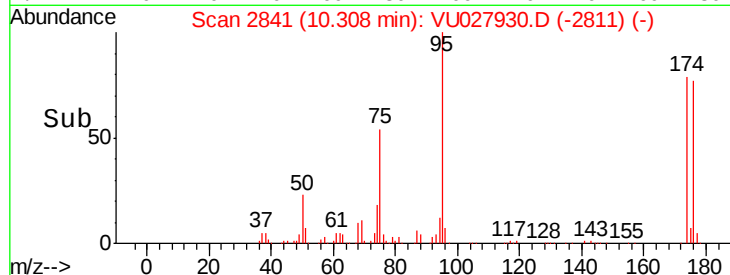
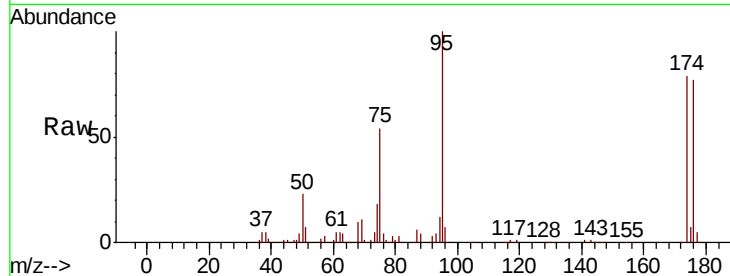
Tot Ion: 75 Resp: 75449

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

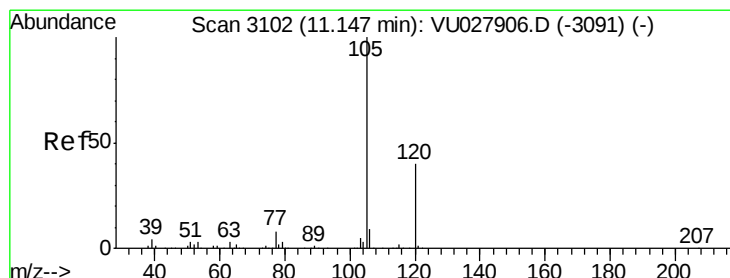
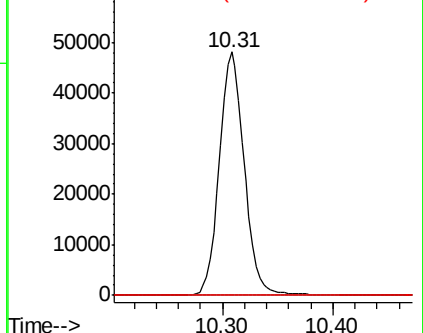
89 0.0 0.0 0.0



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



#84

1,2,4-Trimethylbenzene

Concen: 0.709 ug/l

RT: 11.15 min Scan# 3103

Delta R.T. 0.00 min

Lab File: VU027930.D

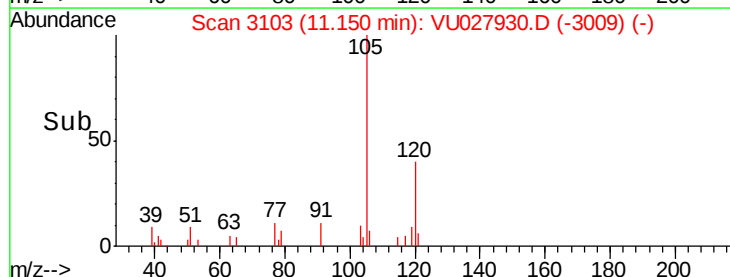
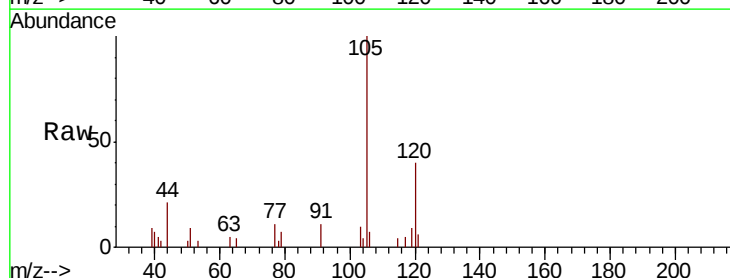
Acq: 02 Nov 2018 16:48

Tgt Ion: 105 Resp: 5965

Ion Ratio Lower Upper

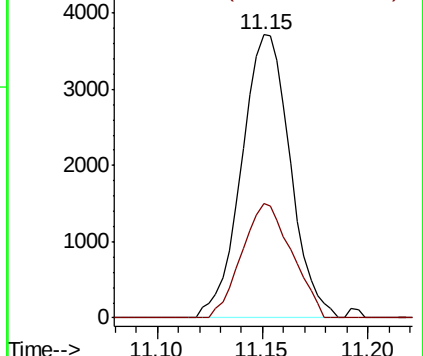
105 100

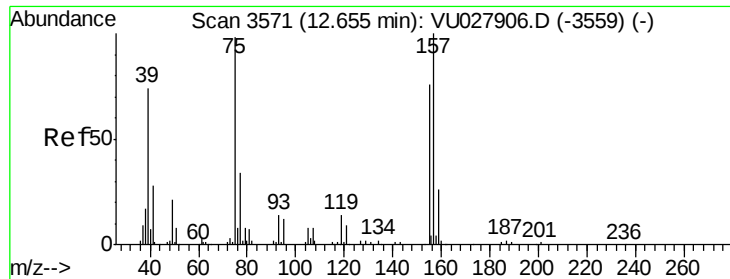
120 41.3 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.435 ug/l

RT: 12.48 min Scan# 3515

Delta R.T. -0.18 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

Instrument :

MSVOA_U

ClientSampleId :

TP-5

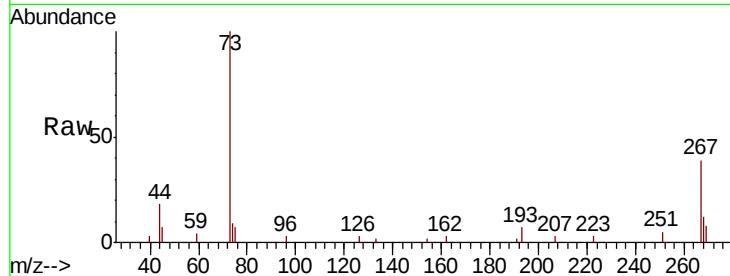
Tot Ion: 75 Resp: 373

Ion Ratio Lower Upper

75 100

155 0.0 39.8 119.3#

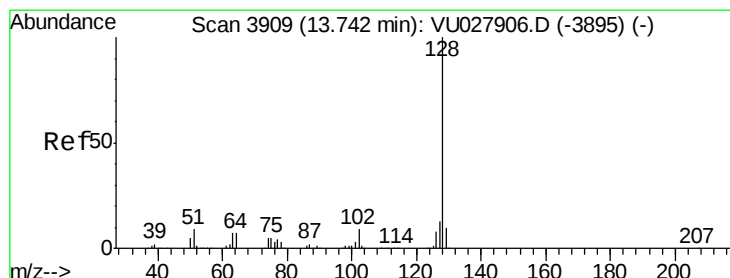
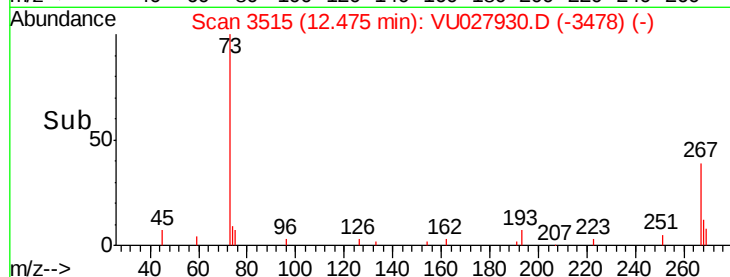
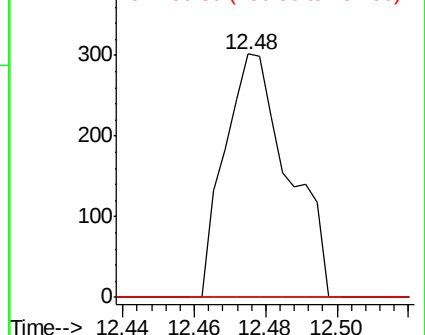
157 0.0 50.6 151.9#



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



#95

Naphthalene

Concen: 2.504 ug/l

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU027930.D

Acq: 02 Nov 2018 16:48

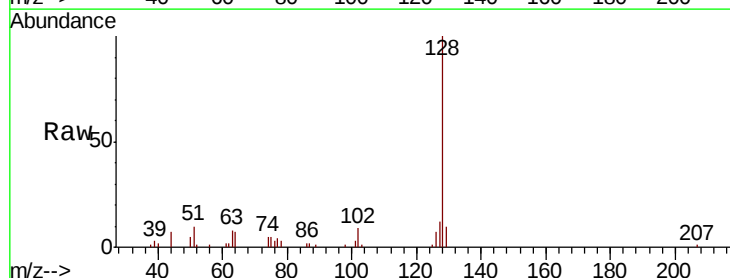
Tgt Ion:128 Resp: 28584

Ion Ratio Lower Upper

128 100

127 13.6 10.4 15.6

129 9.4 8.3 12.5



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

