

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029190.D
 Acq On : 15 Jan 2019 17:08
 Operator : JC/SP
 Sample : K1139-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S-2

Quant Time: Jan 16 04:36:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	107582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	193996	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	181118	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72029	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	75744	56.95	ug/l	0.00
Spiked Amount			Recovery	=	113.90%	
35) Dibromofluoromethane	4.88	113	66087	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
50) Toluene-d8	7.56	98	250769	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	10.31	95	76270	42.75	ug/l	0.00
Spiked Amount			Recovery	=	85.50%	

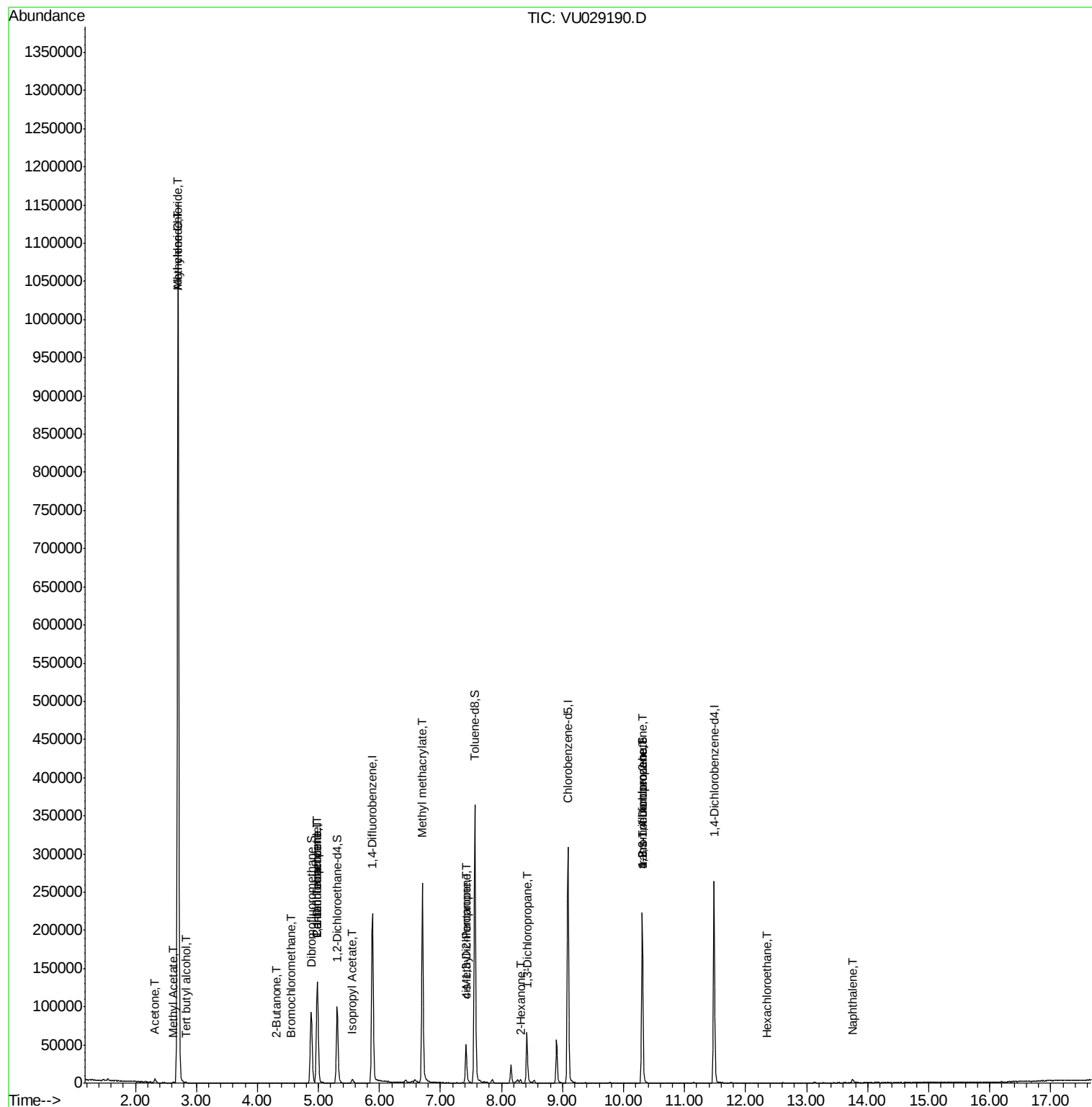
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	685	Below Cal	#	86
11) Tert butyl alcohol	2.83	59	319	0.944	ug/l #	73
14) Allyl chloride	2.70	41	17849	8.719	ug/l #	29
16) Acetone	2.32	43	6121	7.306	ug/l	95
17) Carbon Disulfide	2.48	76	133	Below Cal	#	75
18) Methyl Acetate	2.63	43	1542	0.792	ug/l #	89
20) Methylene Chloride	2.70	84	511405	359.524	ug/l	99
25) 2-Butanone	4.32	43	322	0.285	ug/l #	47
28) Bromochloromethane	4.56	49	400	0.400	ug/l #	87
31) Cyclohexane	4.98	56	1985	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7722	3.982	ug/l #	46
38) Carbon Tetrachloride	4.98	117	9308	5.755	ug/l #	19
43) Isopropyl Acetate	5.56	43	6635	2.032	ug/l #	86
48) Methyl methacrylate	6.70	41	23079	14.517	ug/l #	37
51) 4-Methyl-2-Pentanone	7.42	43	18416	8.288	ug/l #	44
54) cis-1,3-Dichloropropene	7.42	75	10007	4.101	ug/l #	60
57) 1,3-Dichloropropane	8.41	76	631	0.250	ug/l #	42
59) 2-Hexanone	8.31	43	3601	2.065	ug/l #	21
76) 1,2,3-Trichloropropane	10.31	75	36515	20.690	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	36515	53.362	ug/l #	100
90) Hexachloroethane	12.35	117	175	0.230	ug/l #	7
95) Naphthalene	13.75	128	6651	1.193	ug/l #	93

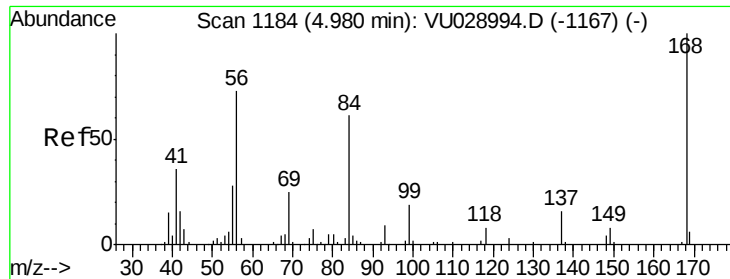
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

Instrument :

MSVOA_U

ClientSampled :

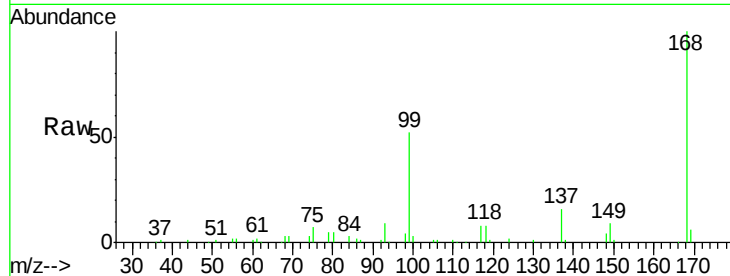
S-2

Tot Ion:168 Resp: 107582

Ion Ratio Lower Upper

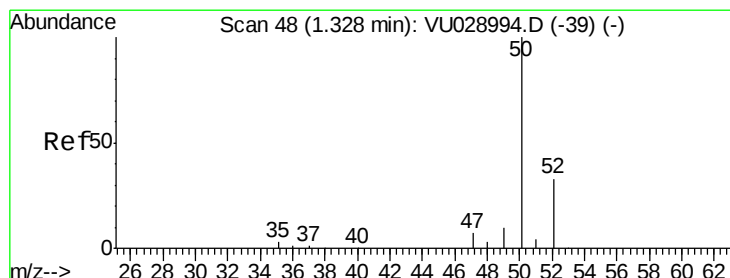
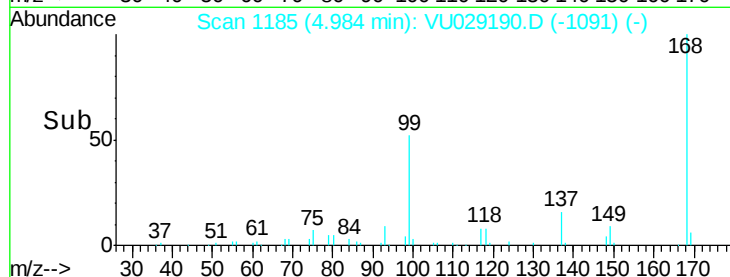
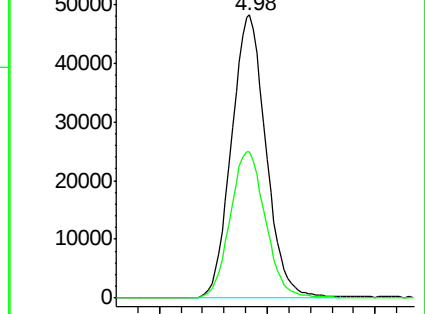
168 100

99 51.7 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029190.D

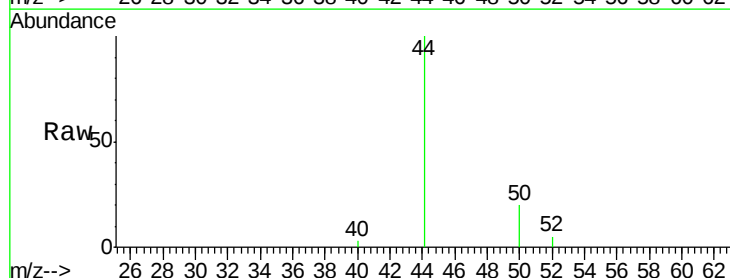
Acq: 15 Jan 2019 17:08

Tgt Ion: 50 Resp: 685

Ion Ratio Lower Upper

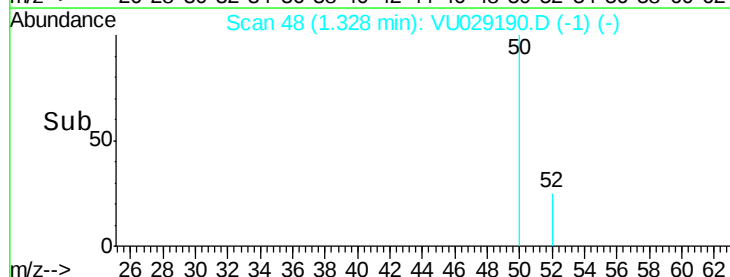
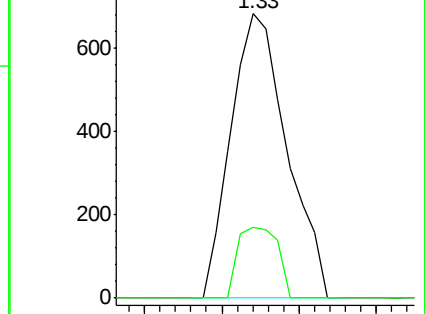
50 100

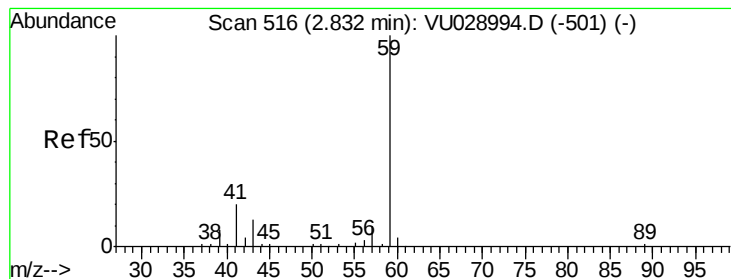
52 24.8 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)

Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)



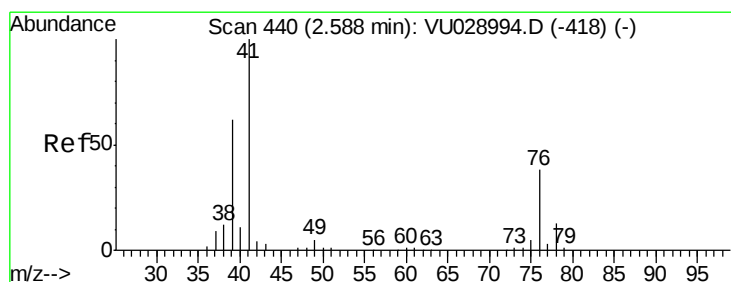
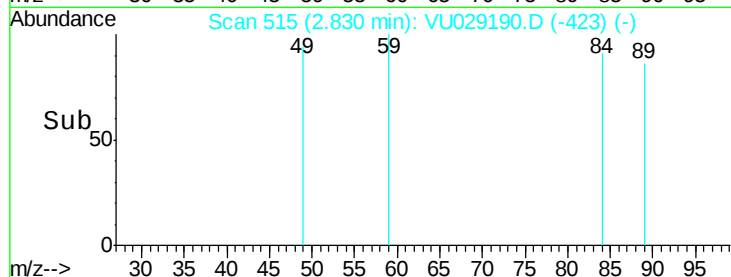
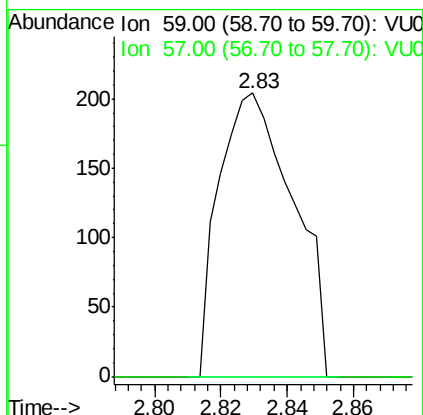
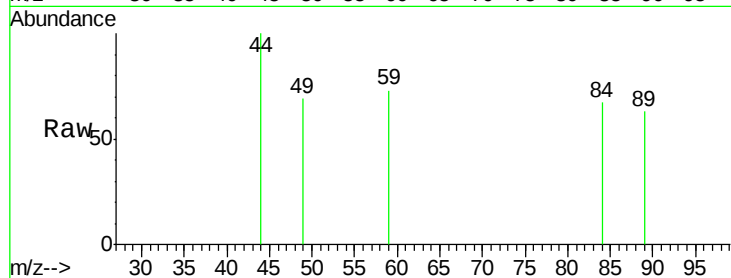


#11

Tert butyl alcohol
 Concen: 0.944 ug/l
 RT: 2.83 min Scan# 515
 Delta R.T. -0.00 min
 Lab File: VU029190.D
 Acq: 15 Jan 2019 17:08

Instrument :
 MSVOA_U
 ClientSampled :
 S-2

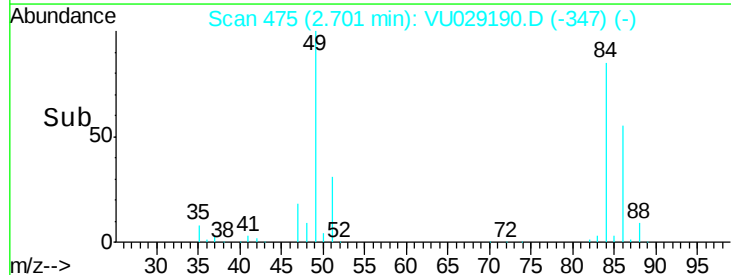
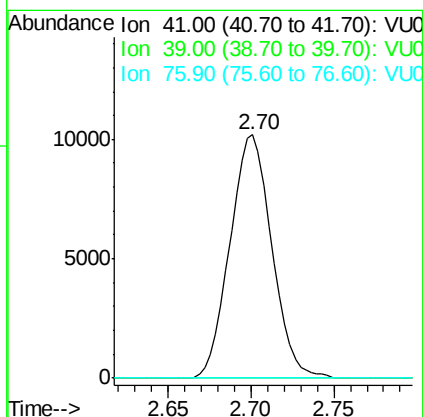
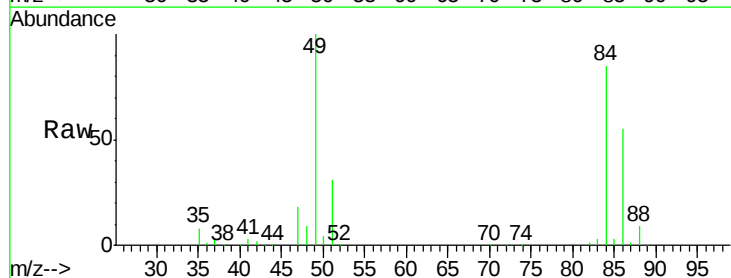
Tot Ion: 59 Resp: 319
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

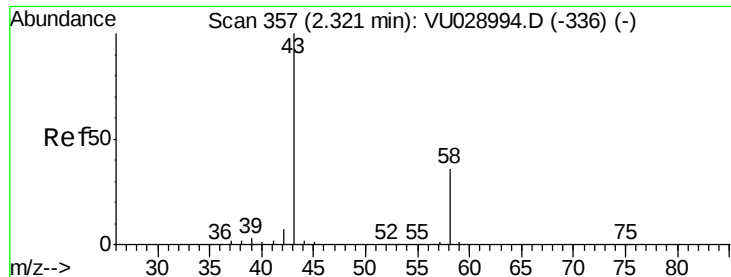


#14

Allyl chloride
 Concen: 8.719 ug/l
 RT: 2.70 min Scan# 475
 Delta R.T. 0.11 min
 Lab File: VU029190.D
 Acq: 15 Jan 2019 17:08

Tgt Ion: 41 Resp: 17849
 Ion Ratio Lower Upper
 41 100
 39 0.0 45.0 67.6#
 76 0.0 28.1 42.1#





#16

Acetone

Concen: 7.306 ug/l

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

Instrument :

MSVOA_U

ClientSampled :

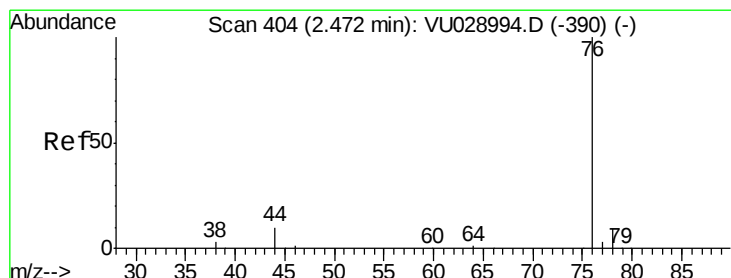
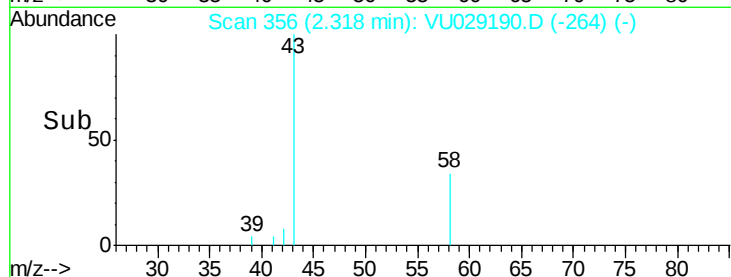
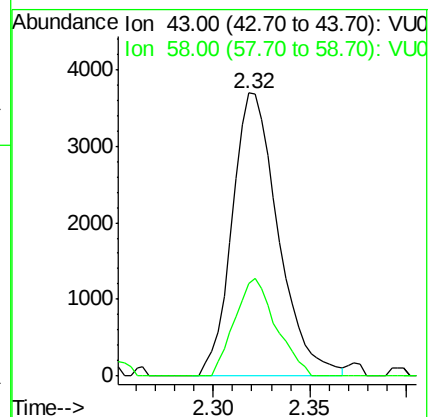
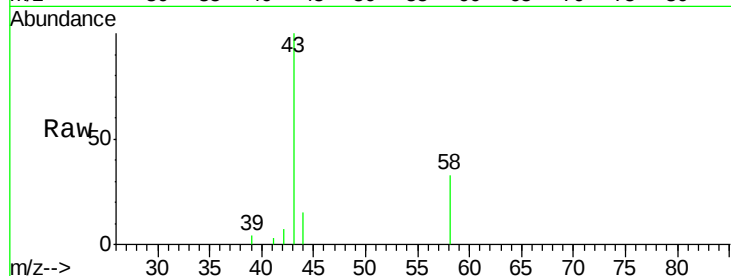
S-2

Tot Ion: 43 Resp: 6121

Ion Ratio Lower Upper

43 100

58 32.7 28.6 42.8



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU029190.D

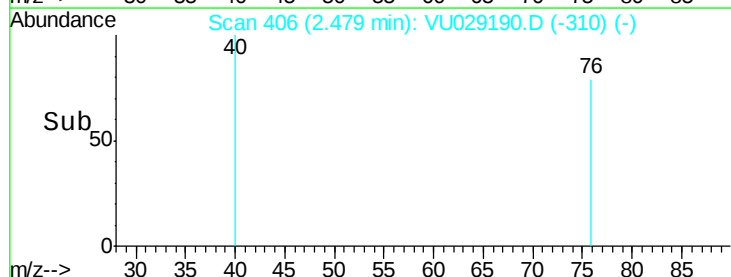
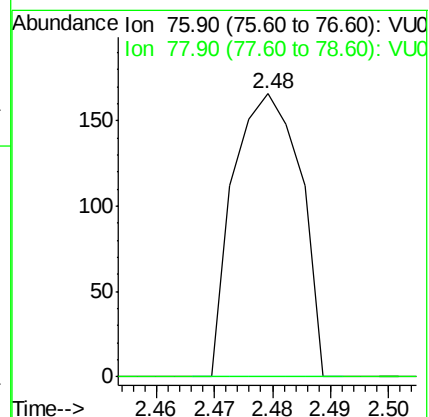
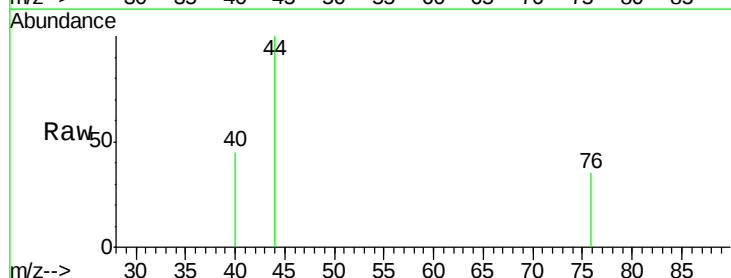
Acq: 15 Jan 2019 17:08

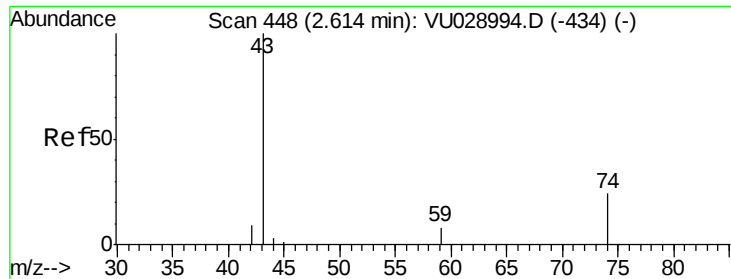
Tgt Ion: 76 Resp: 133

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

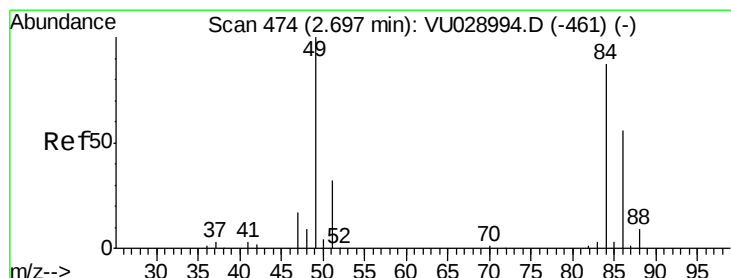
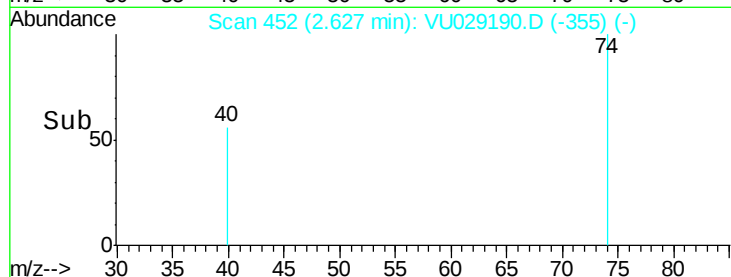
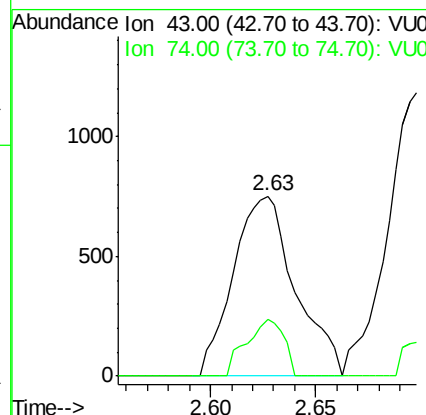
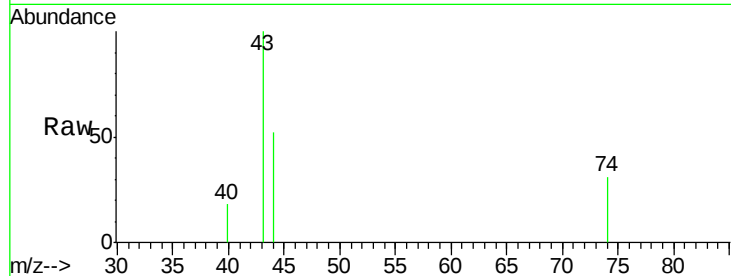




#18
Methyl Acetate
Concen: 0.792 ug/l
RT: 2.63 min Scan# 452
Delta R.T. 0.01 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

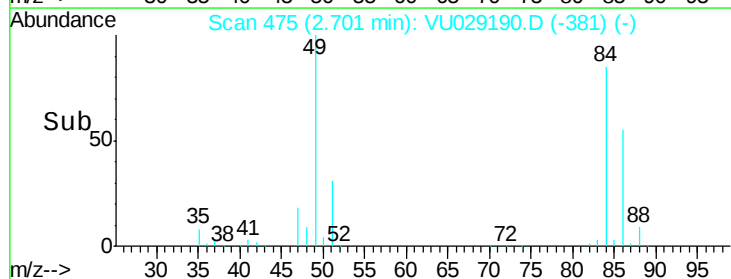
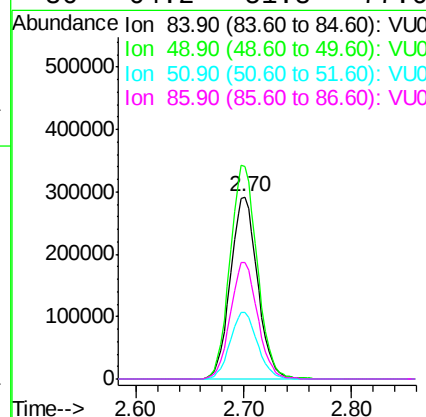
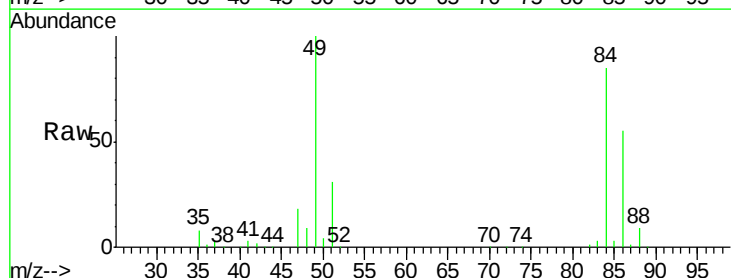
Instrument :
MSVOA_U
ClientSampleId :
S-2

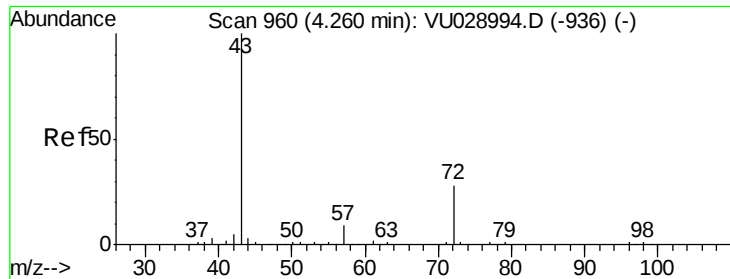
Tot Ion: 43 Resp: 1542
Ion Ratio Lower Upper
43 100
74 19.1 19.5 29.3#



#20
Methylene Chloride
Concen: 359.524 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

Tgt Ion: 84 Resp: 511405
Ion Ratio Lower Upper
84 100
49 117.0 91.9 137.9
51 36.3 29.2 43.8
86 64.2 51.8 77.6





#25

2-Butanone

Concen: 0.285 ug/l

RT: 4.32 min Scan# 977

Delta R.T. 0.06 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

Instrument :

MSVOA_U

ClientSampleId :

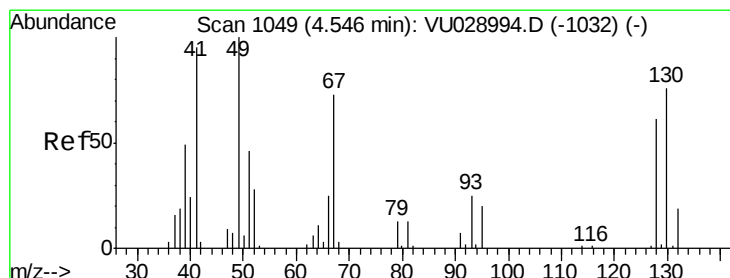
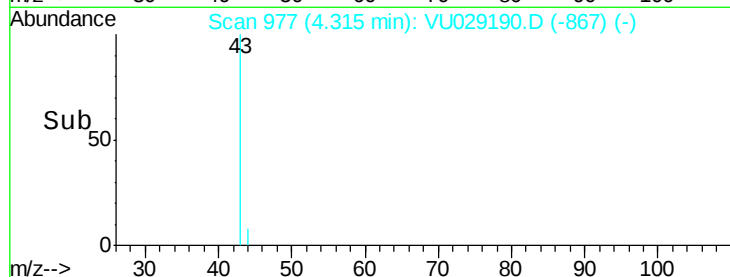
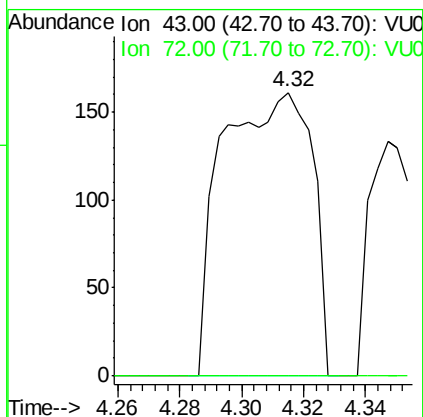
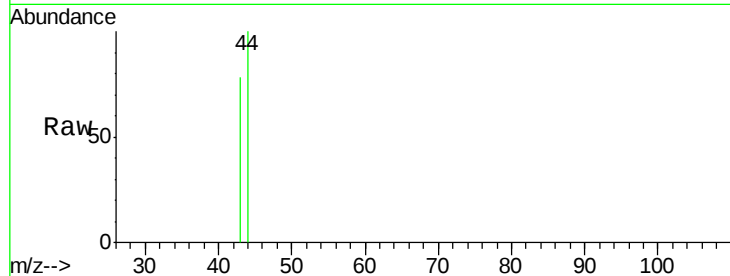
S-2

Tot Ion: 43 Resp: 322

Ion Ratio Lower Upper

43 100

72 0.0 22.6 33.8#



#28

Bromochloromethane

Concen: 0.400 ug/l

RT: 4.56 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

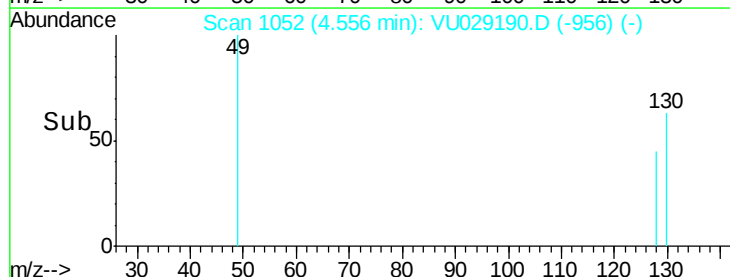
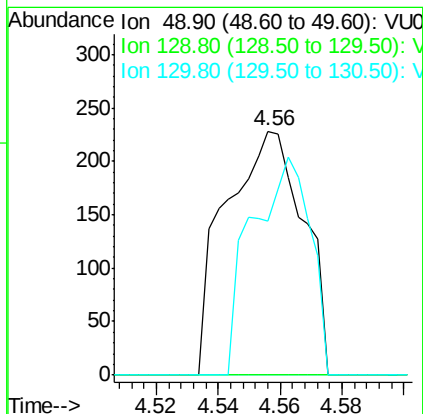
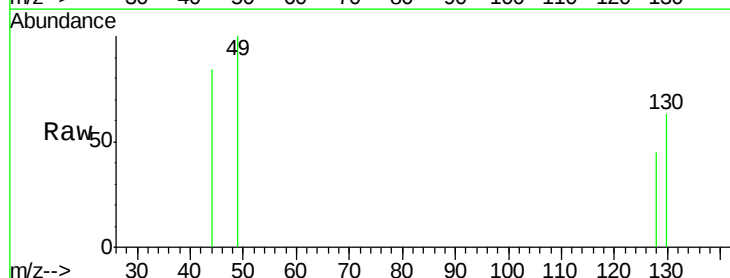
Tgt Ion: 49 Resp: 400

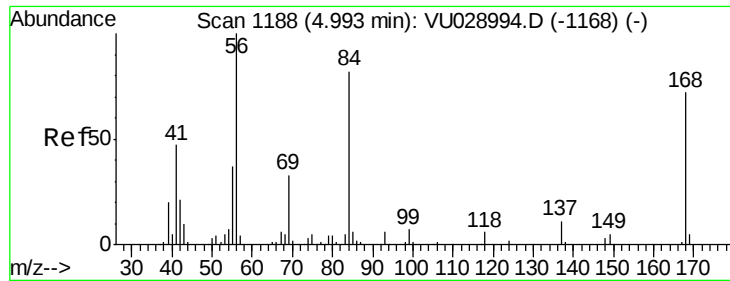
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 66.8 62.9 94.3

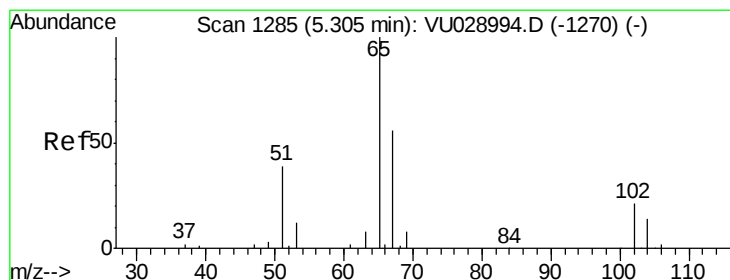
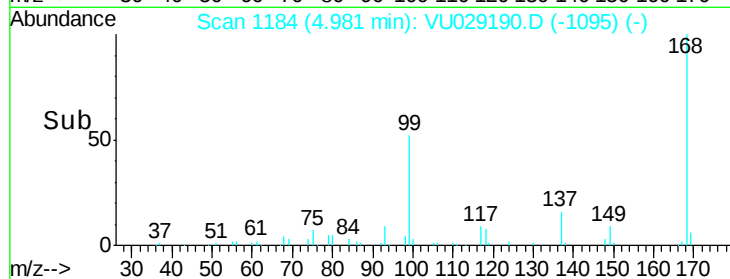
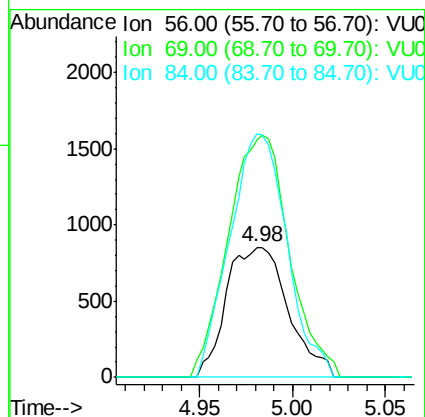
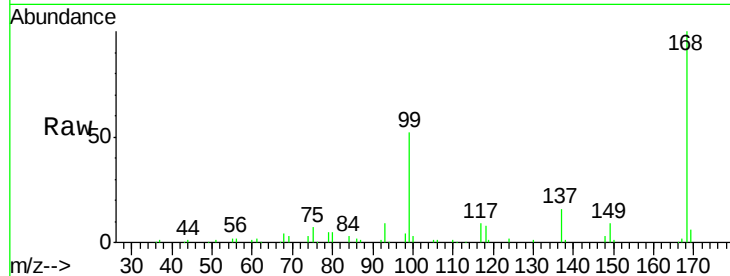




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

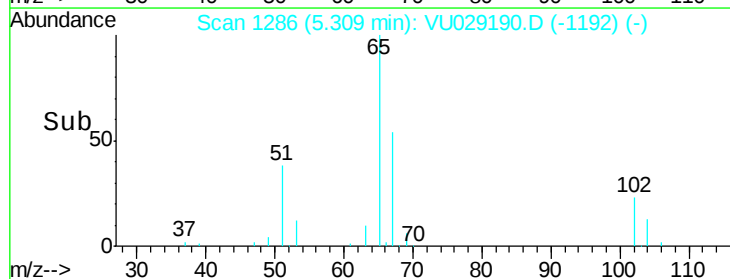
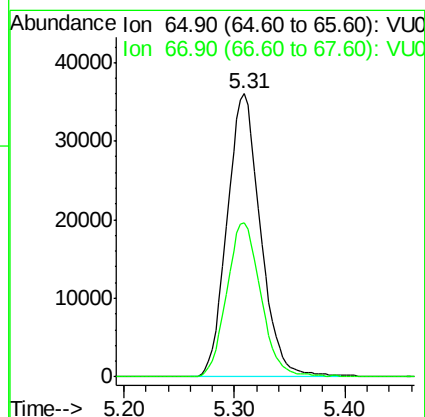
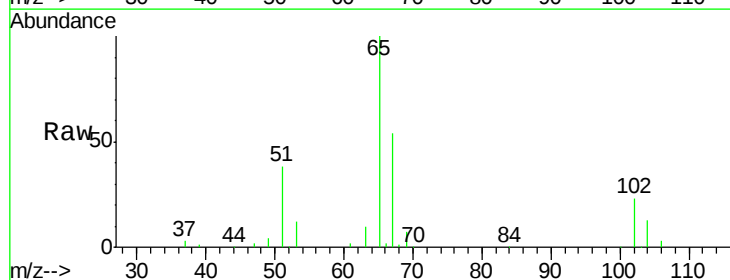
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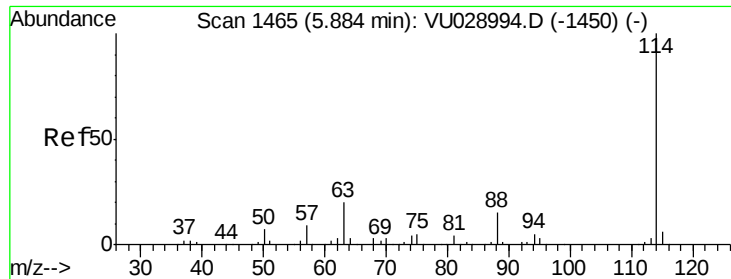
Tot Ion: 56 Resp: 1985
Ion Ratio Lower Upper
56 100
69 182.0 26.7 40.1#
84 187.1 65.7 98.5#



#33
1,2-Dichloroethane-d4
Concen: 56.954 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

Tgt Ion: 65 Resp: 75744
Ion Ratio Lower Upper
65 100
67 55.5 0.0 111.0

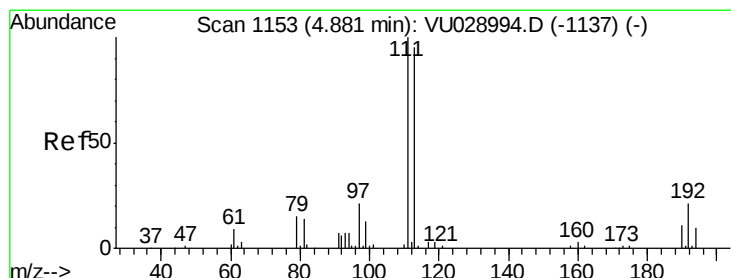
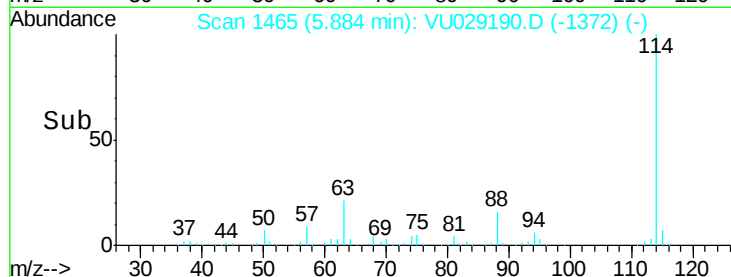
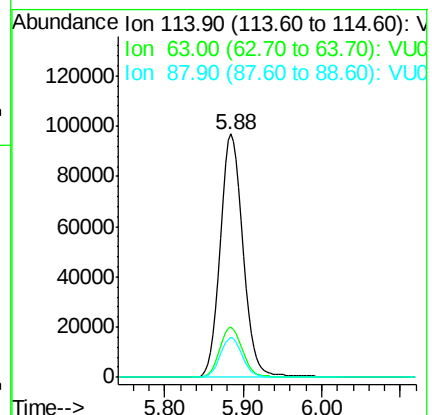
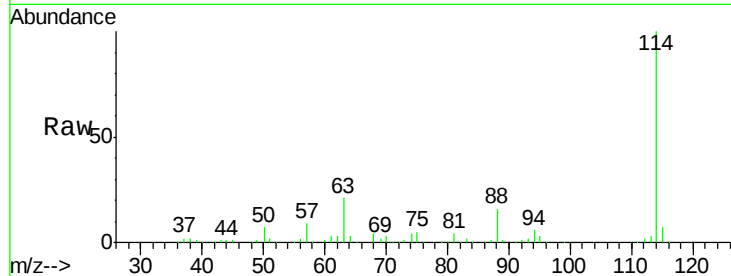




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029190.D
 Acq: 15 Jan 2019 17:08

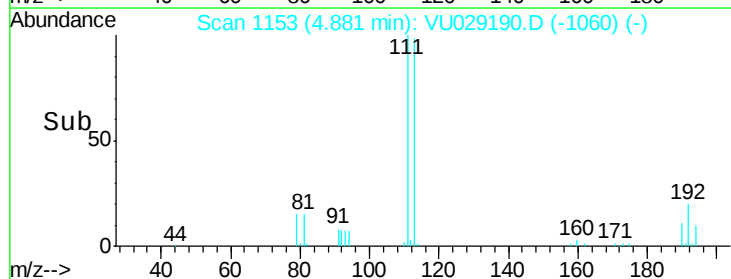
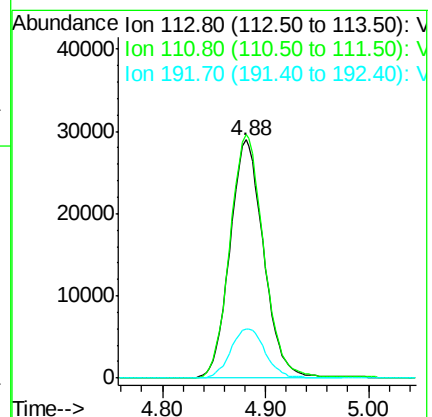
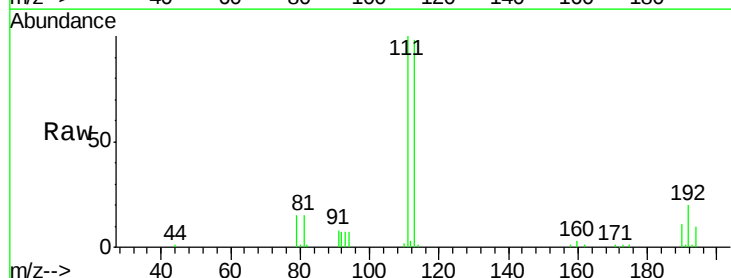
Instrument :
 MSVOA_U
 ClientSampleId :
 S-2

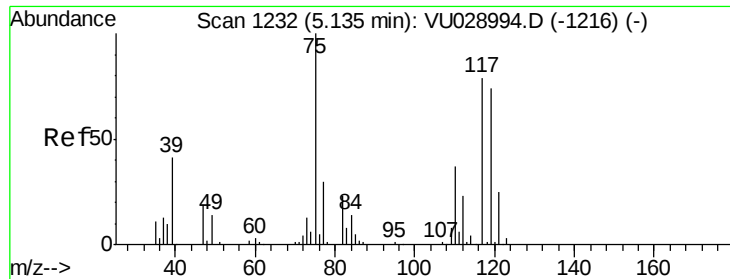
Tot Ion:114 Resp: 193996
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.2
 88 16.2 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 52.553 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029190.D
 Acq: 15 Jan 2019 17:08

Tgt Ion:113 Resp: 66087
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.4 122.2
 192 21.0 16.8 25.2

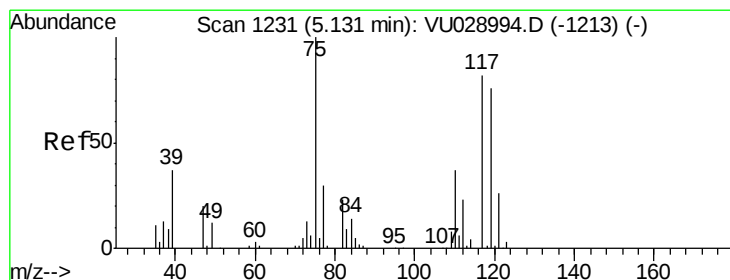
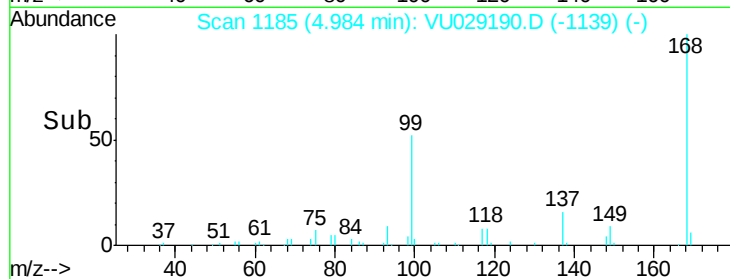
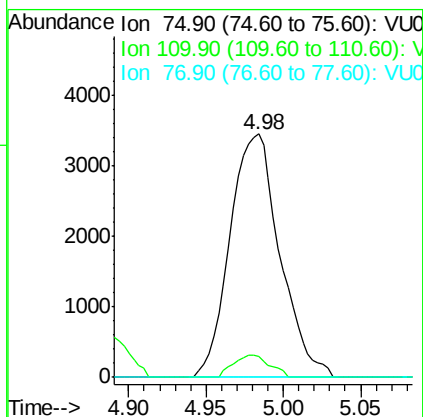
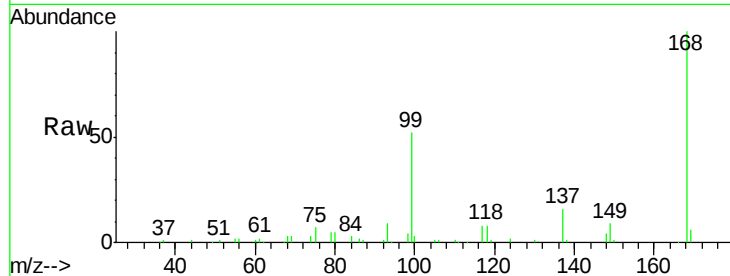




#36
 1,1-Dichloropropene
 Concen: 3.982 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029190.D
 Acq: 15 Jan 2019 17:08

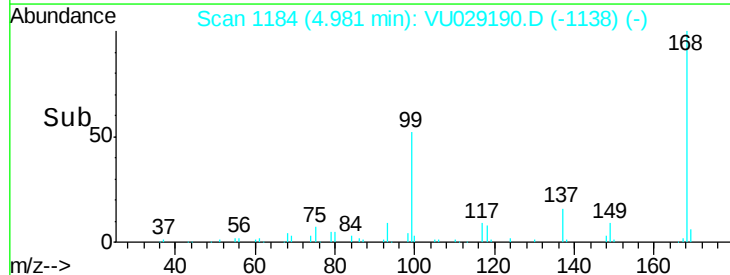
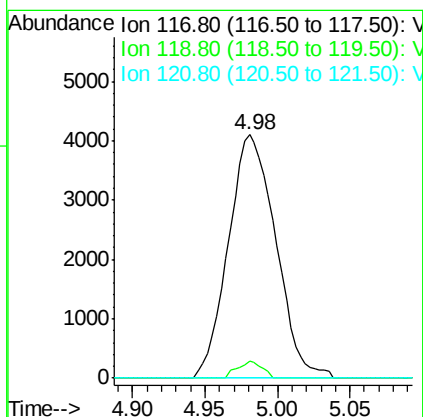
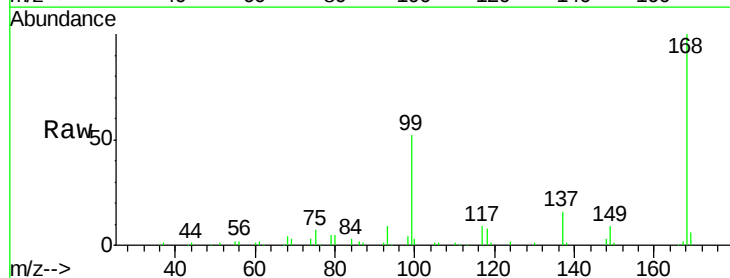
Instrument :
 MSVOA_U
 ClientSampleId :
 S-2

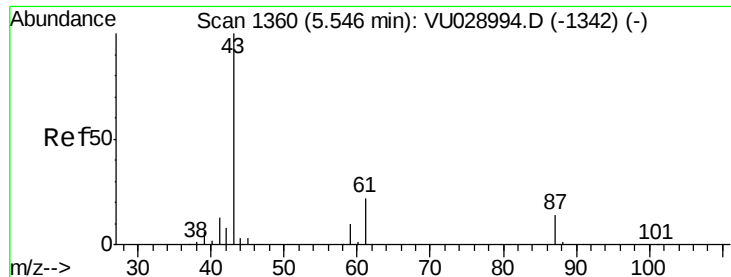
Tot Ion: 75 Resp: 7722
 Ion Ratio Lower Upper
 75 100
 110 6.6 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.755 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029190.D
 Acq: 15 Jan 2019 17:08

Tgt Ion: 117 Resp: 9308
 Ion Ratio Lower Upper
 117 100
 119 6.9 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 2.032 ug/l

RT: 5.56 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

Instrument :

MSVOA_U

ClientSampleId :

S-2

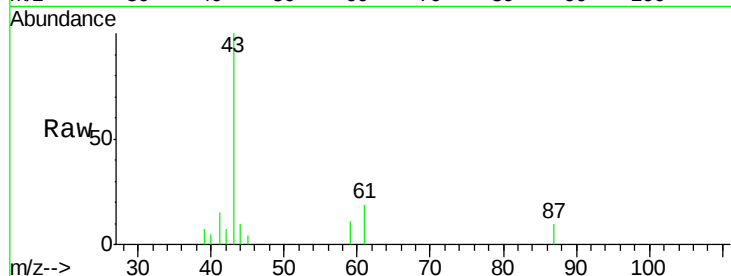
Tot Ion: 43 Resp: 6635

Ion Ratio Lower Upper

43 100

61 15.3 17.8 26.6#

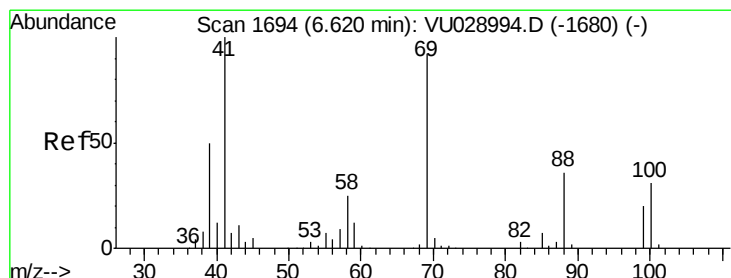
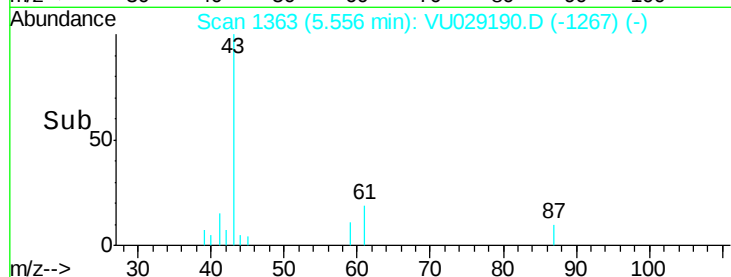
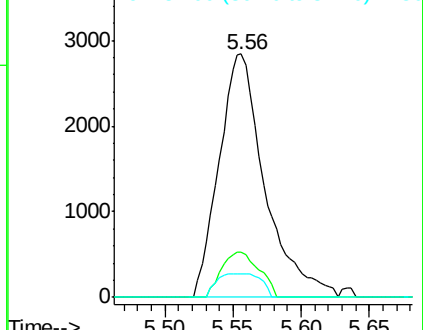
87 9.2 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VU029190.D (-1267) (-)

Ion 61.00 (60.70 to 61.70): VU029190.D (-1267) (-)

Ion 87.00 (86.70 to 87.70): VU029190.D (-1267) (-)



#48

Methyl methacrylate

Concen: 14.517 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

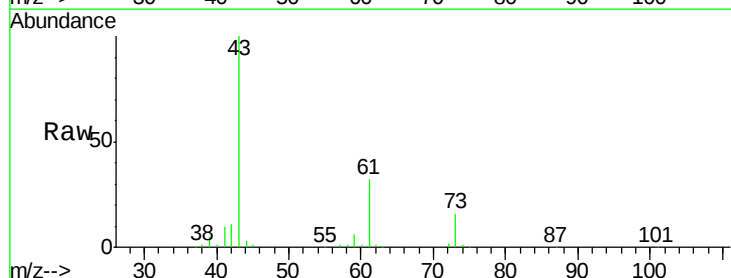
Tgt Ion: 41 Resp: 23079

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

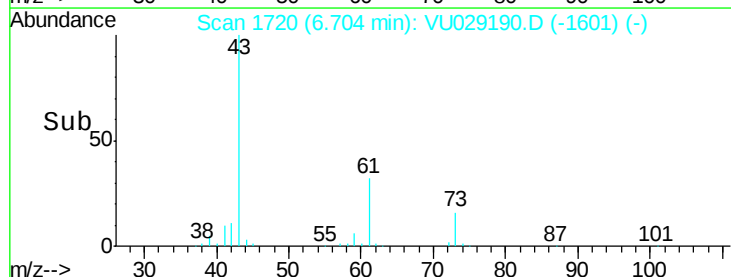
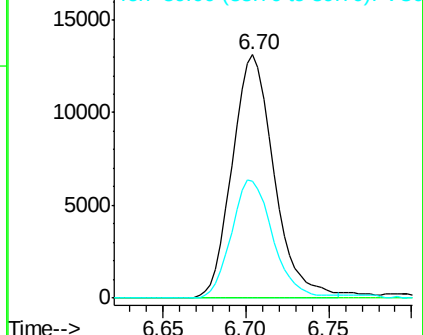
39 48.1 39.6 59.4

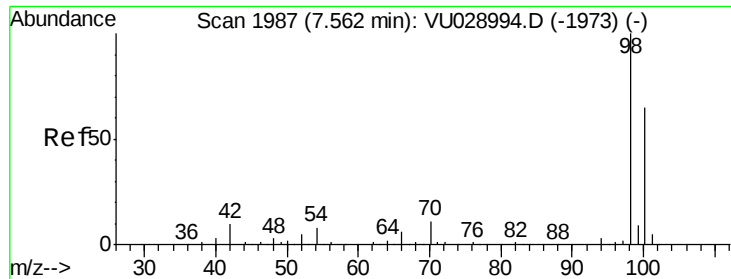


Abundance Ion 41.00 (40.70 to 41.70): VU029190.D (-1601) (-)

Ion 69.00 (68.70 to 69.70): VU029190.D (-1601) (-)

Ion 39.00 (38.70 to 39.70): VU029190.D (-1601) (-)

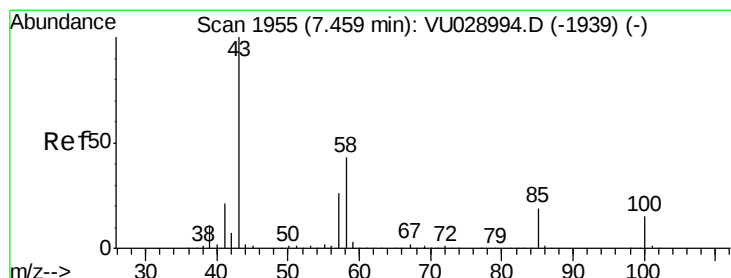
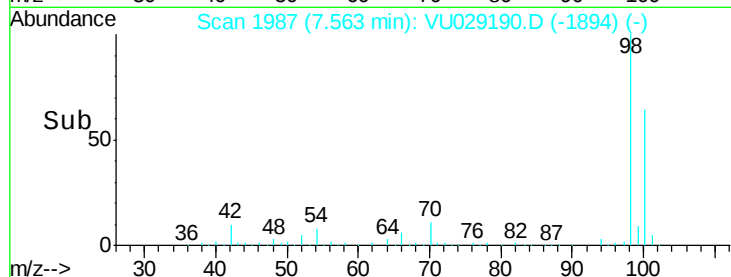
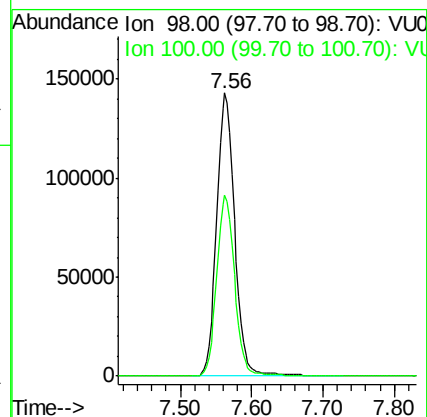
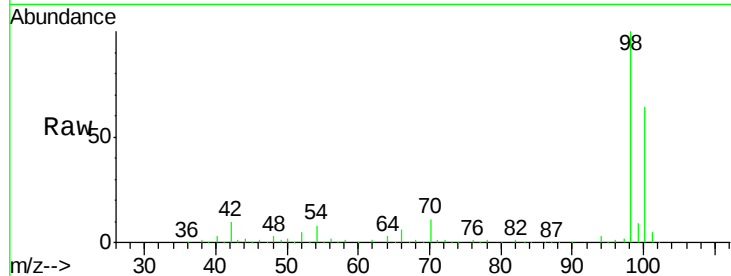




#50
Toluene-d8
Concen: 50.511 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

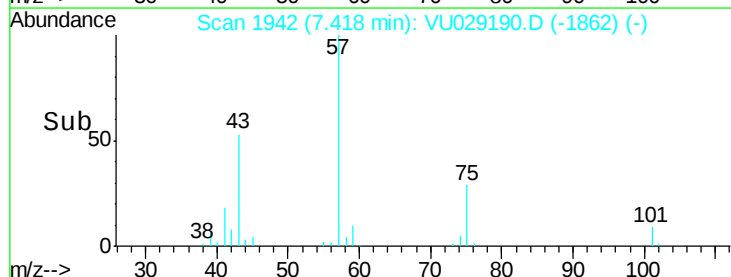
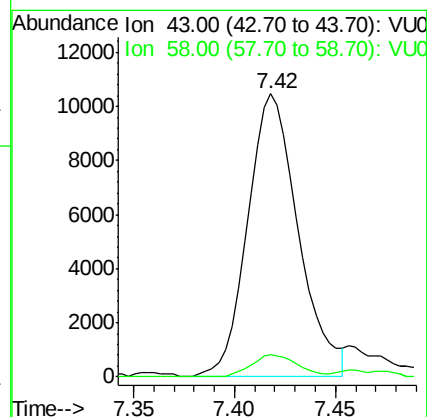
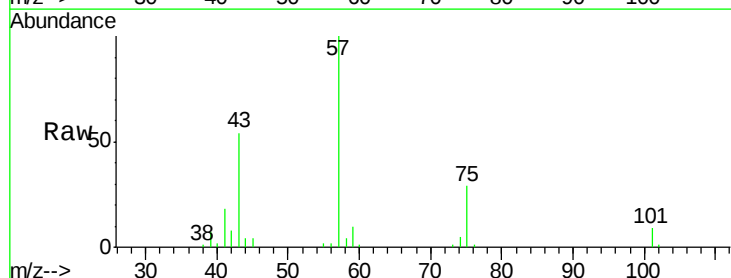
Instrument :
MSVOA_U
ClientSampled :
S-2

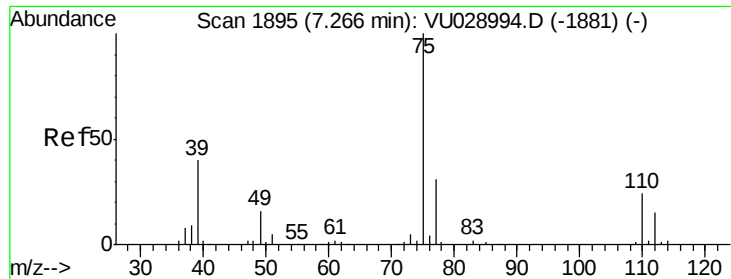
Tot Ion: 98 Resp: 250769
Ion Ratio Lower Upper
98 100
100 63.7 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 8.288 ug/l
RT: 7.42 min Scan# 1942
Delta R.T. -0.04 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

Tgt Ion: 43 Resp: 18416
Ion Ratio Lower Upper
43 100
58 7.1 33.9 50.9#

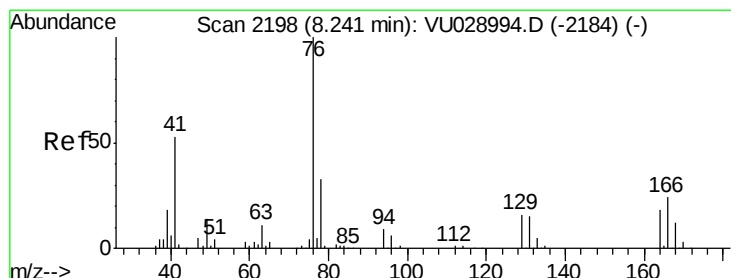
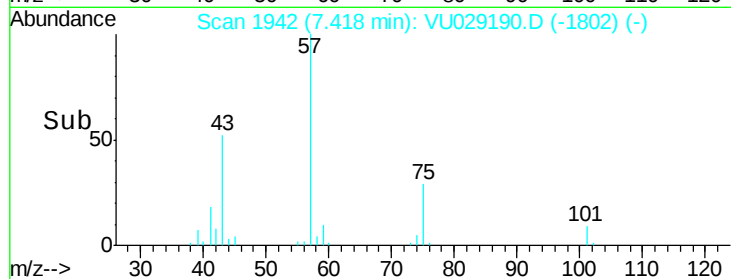
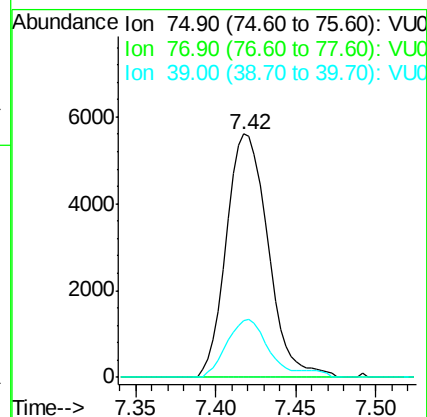
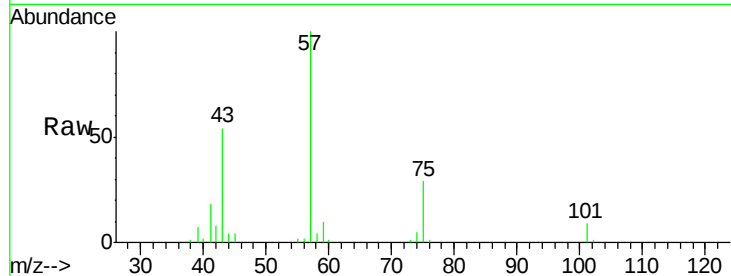




#54
 cis-1,3-Dichloropropene
 Concen: 4.101 ug/l
 RT: 7.42 min Scan# 1942
 Delta R.T. 0.15 min
 Lab File: VU029190.D
 Acq: 15 Jan 2019 17:08

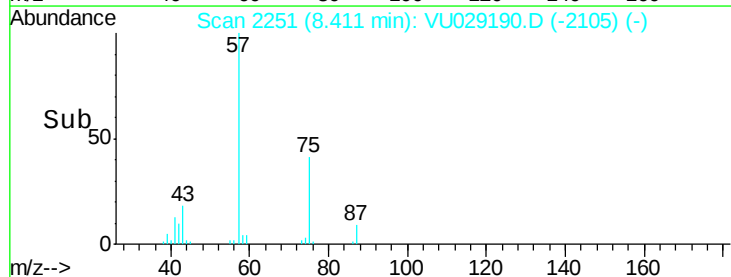
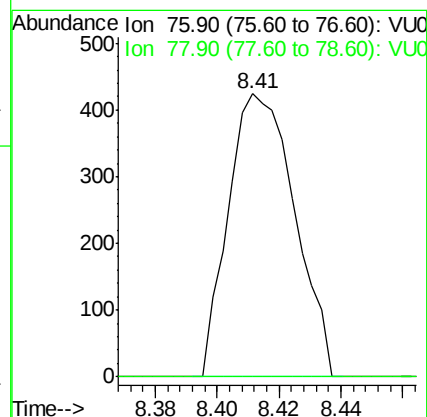
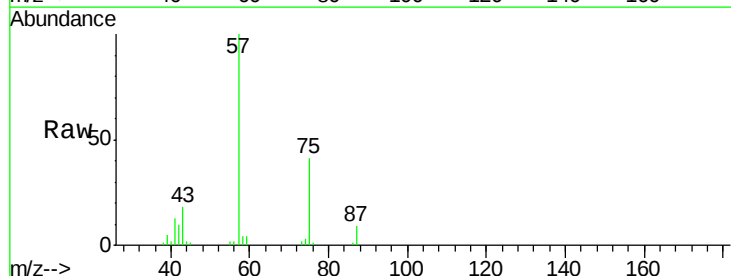
Instrument :
 MSVOA_U
 ClientSampled :
 S-2

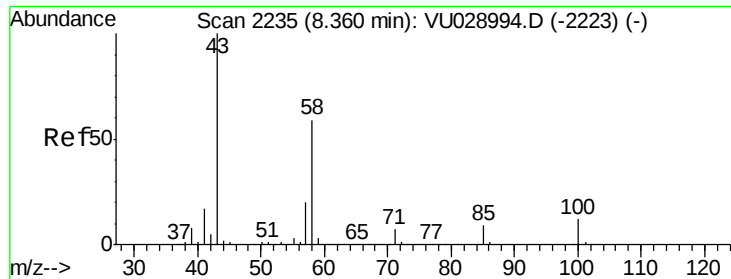
Tot Ion: 75 Resp: 10007
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 23.2 32.2 48.4#



#57
 1,3-Dichloropropane
 Concen: 0.250 ug/l
 RT: 8.41 min Scan# 2251
 Delta R.T. 0.17 min
 Lab File: VU029190.D
 Acq: 15 Jan 2019 17:08

Tgt Ion: 76 Resp: 631
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

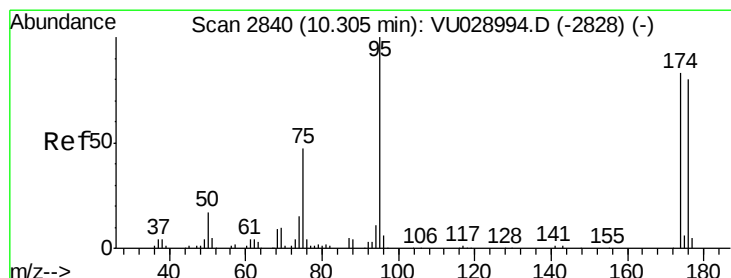
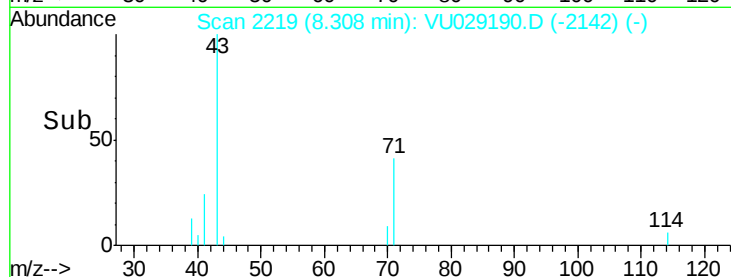
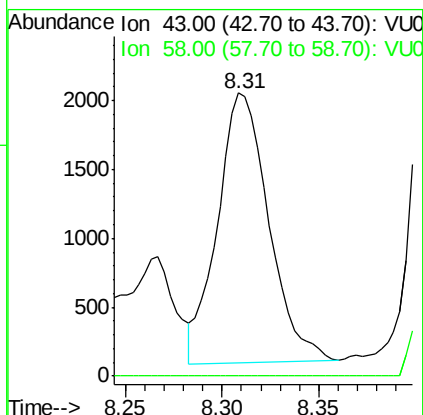
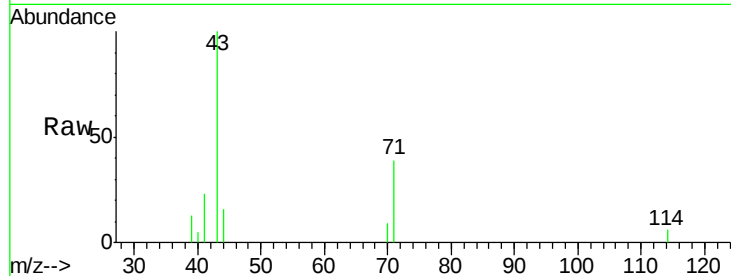




#59
2-Hexanone
Concen: 2.065 ug/l
RT: 8.31 min Scan# 2219
Delta R.T. -0.05 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

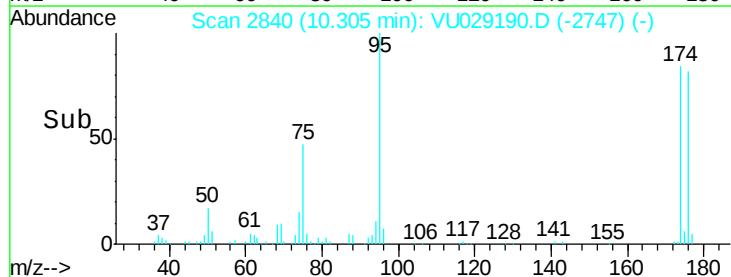
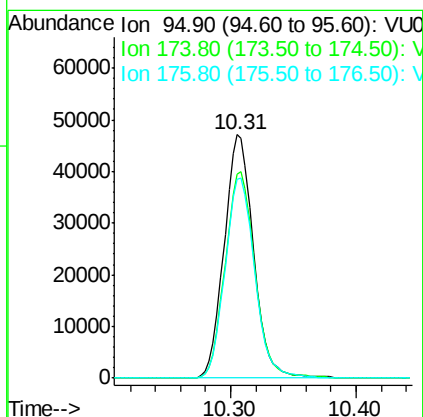
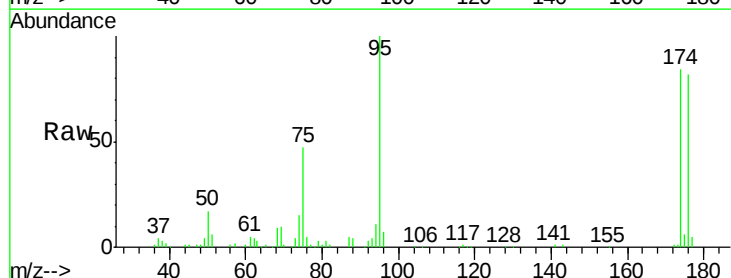
Instrument :
MSVOA_U
ClientSampleId :
S-2

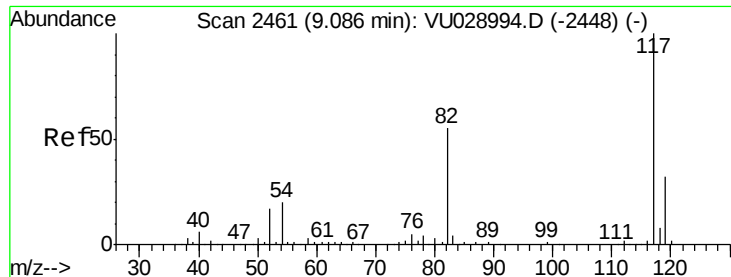
Tot Ion: 43 Resp: 3601
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 42.748 ug/l
RT: 10.31 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

Tgt Ion: 95 Resp: 76270
Ion Ratio Lower Upper
95 100
174 86.2 0.0 170.6
176 83.5 0.0 165.0

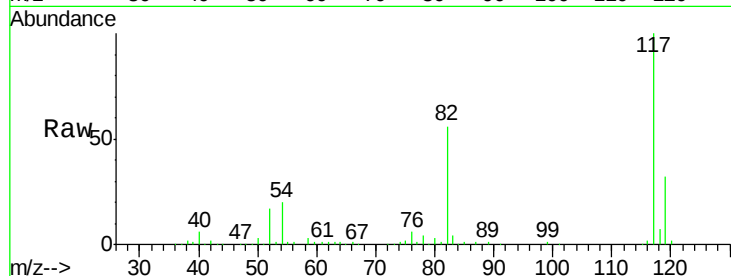




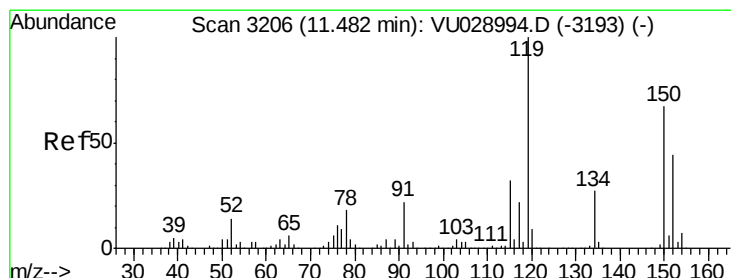
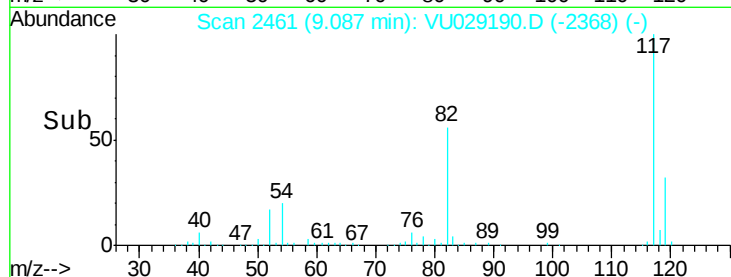
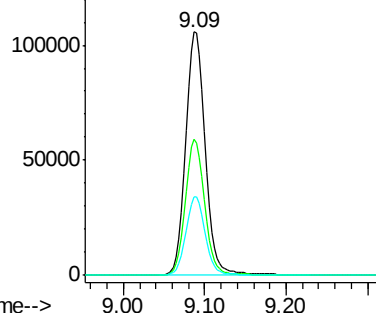
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

Instrument :
MSVOA_U
ClientSampled :
S-2

Tot Ion:117 Resp: 181118
Ion Ratio Lower Upper
117 100
82 56.1 43.9 65.9
119 32.0 26.0 39.0

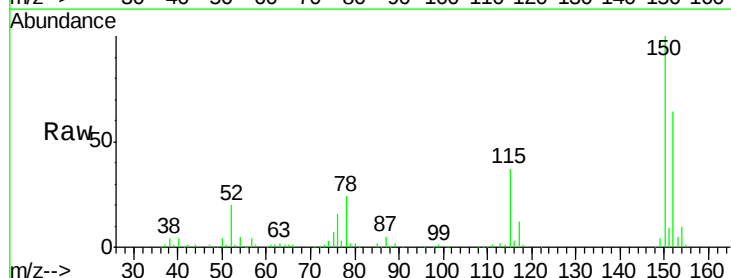


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

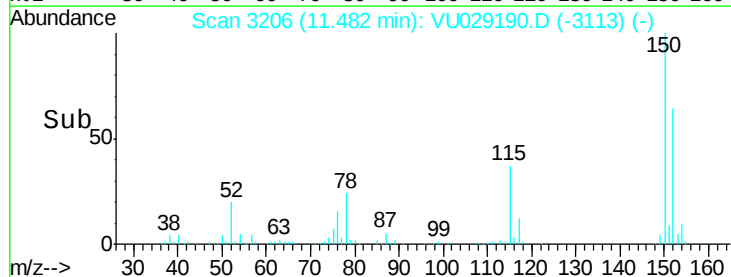
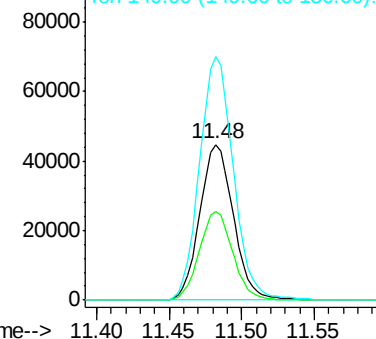


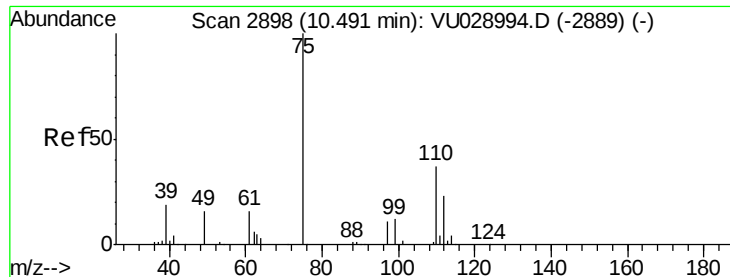
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029190.D
Acq: 15 Jan 2019 17:08

Tgt Ion:152 Resp: 72029
Ion Ratio Lower Upper
152 100
115 56.6 40.1 120.3
150 157.3 0.0 345.2



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: 20.690 ug/l

RT: 10.31 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

Instrument :

MSVOA_U

ClientSampled :

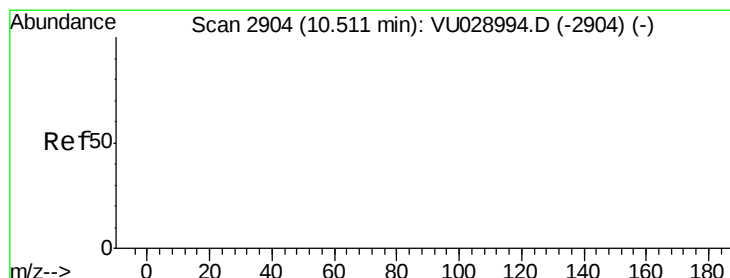
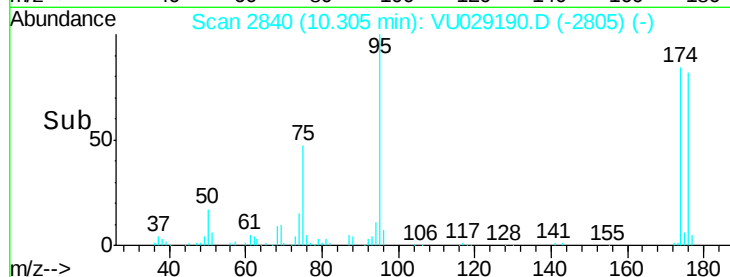
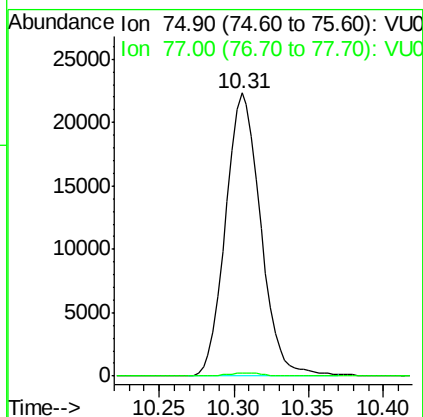
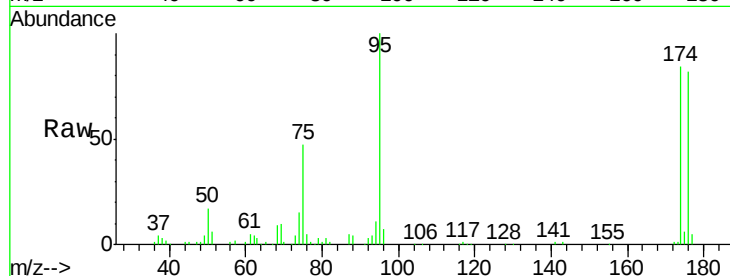
S-2

Tot Ion: 75 Resp: 36515

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.362 ug/l

RT: 10.31 min Scan# 2840

Delta R.T. -0.20 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

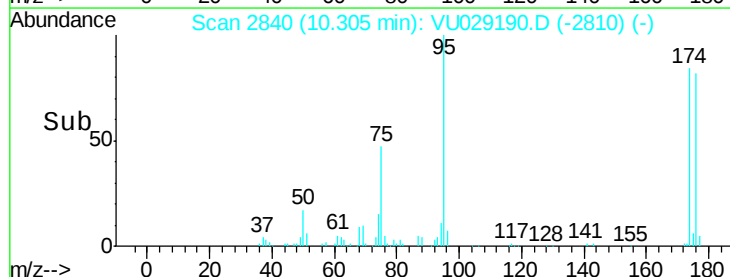
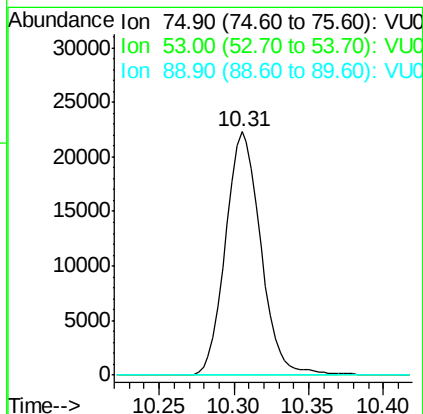
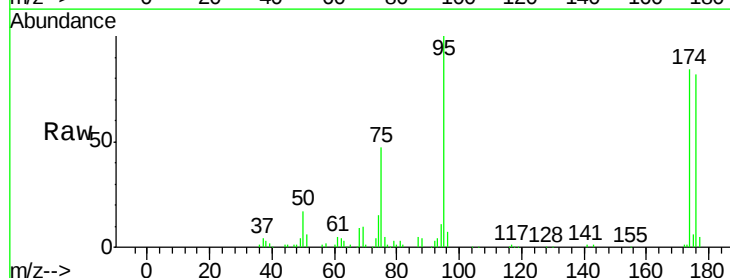
Tgt Ion: 75 Resp: 36515

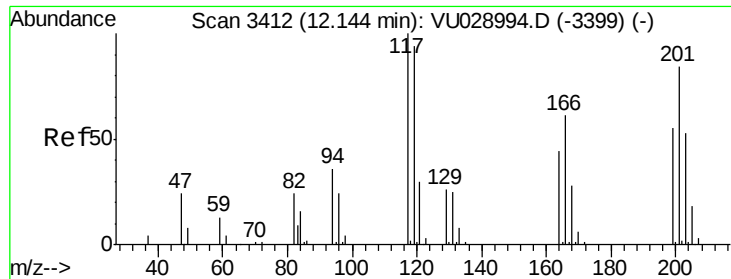
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#90

Hexachloroethane

Concen: 0.230 ug/l

RT: 12.35 min Scan# 3477

Delta R.T. 0.21 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

Instrument :

MSVOA_U

ClientSampleId :

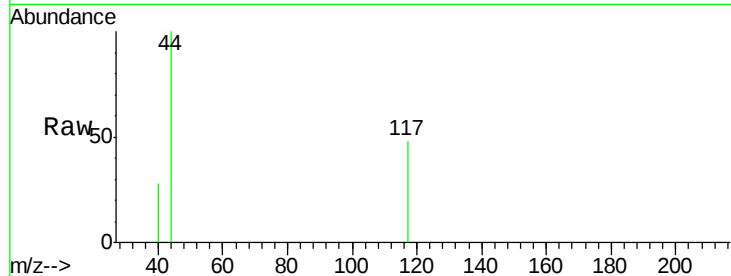
S-2

Tot Ion:117 Resp: 175

Ion Ratio Lower Upper

117 100

201 0.0 42.4 127.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.35

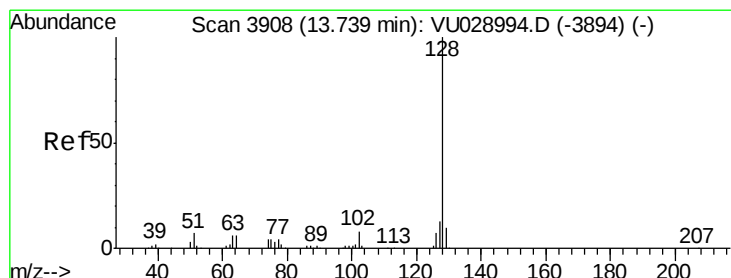
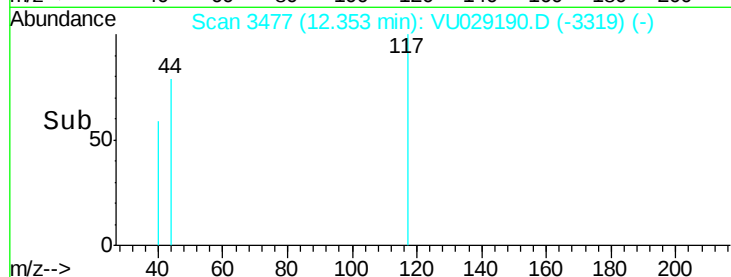
150

100

50

0

Time-->



#95

Naphthalene

Concen: 1.193 ug/l

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU029190.D

Acq: 15 Jan 2019 17:08

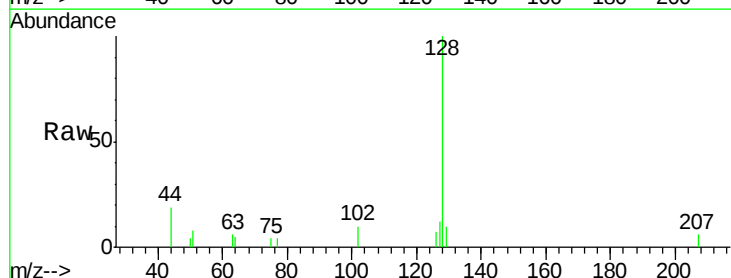
Tgt Ion:128 Resp: 6651

Ion Ratio Lower Upper

128 100

127 9.8 10.1 15.1#

129 8.0 8.5 12.7#



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

3000

2000

1000

0

Time-->

