

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112818\
 Data File : VW007121.D
 Acq On : 28 Nov 2018 18:31
 Operator : VAY/AP
 Sample : J6082-01
 Misc : 7.24G/5ML/MSVOA W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S49-0490

Quant Time: Nov 29 04:37:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W112118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 21 03:23:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	22281	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	36974	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	38123	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	20956	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	10920	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
35) Dibromofluoromethane	7.89	113	2821	13.51	ug/l	0.00
Spiked Amount			Recovery	=	27.02%	
50) Toluene-d8	10.33	98	6492	7.04	ug/l	0.00
Spiked Amount			Recovery	=	14.08%	
62) 4-Bromofluorobenzene	12.62	95	6157	16.97	ug/l	0.00
Spiked Amount			Recovery	=	33.94%	

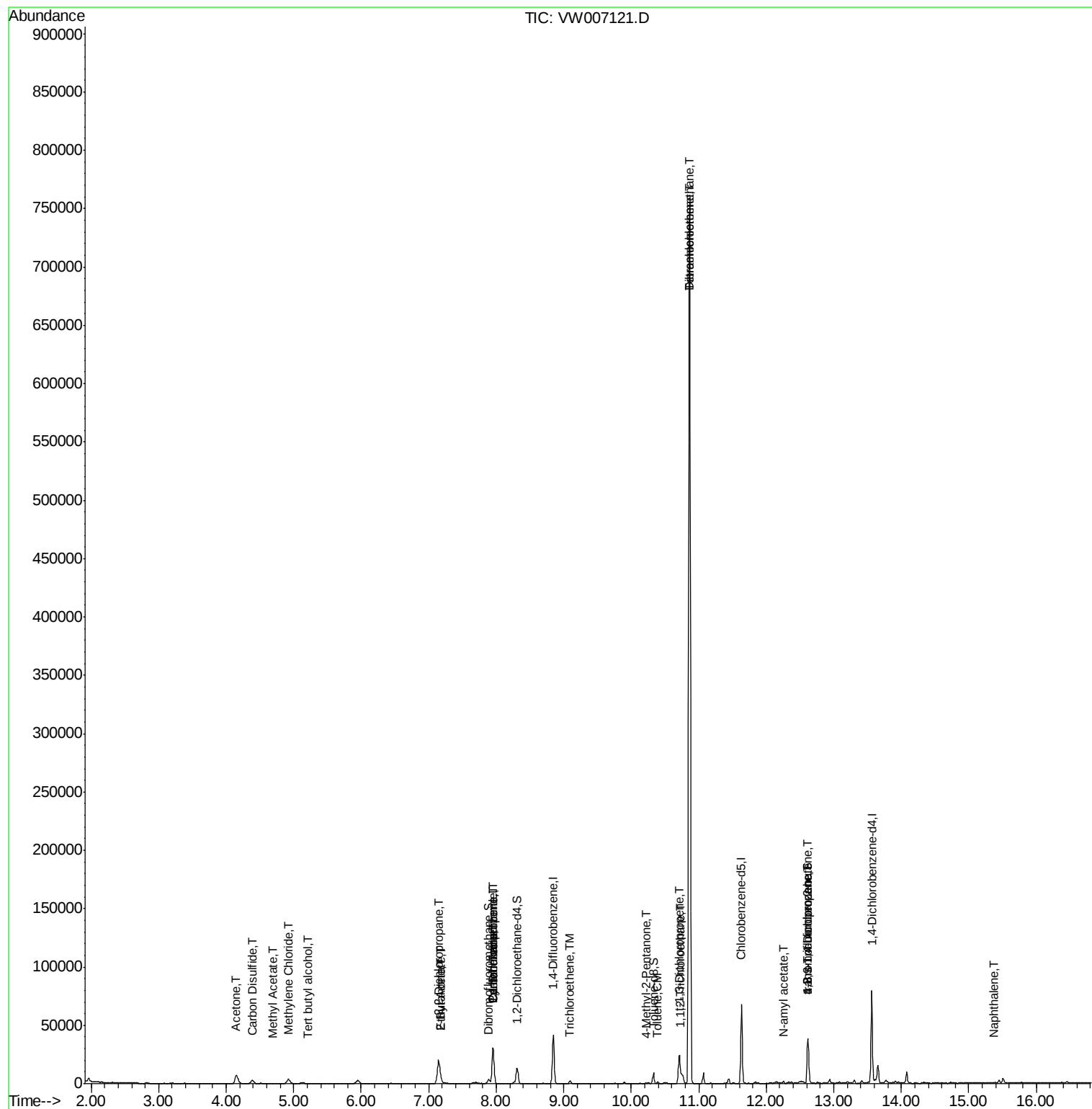
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	49	3.451	ug/l #	71
16) Acetone	4.15	43	13825	436.522	ug/l	93
17) Carbon Disulfide	4.39	76	5548	8.509	ug/l #	92
18) Methyl Acetate	4.69	43	394	3.493	ug/l #	50
20) Methylene Chloride	4.93	84	2846	6.588	ug/l #	90
25) 2-Butanone	7.18	43	2869	52.891	ug/l #	88
26) 2,2-Dichloropropane	7.14	77	1482	4.161	ug/l #	53
31) Cyclohexane	7.95	56	727	1.730	ug/l #	14
36) 1,1-Dichloropropene	7.95	75	1812	5.015	ug/l #	43
37) Ethyl Acetate	7.18	43	2869	21.912	ug/l #	69
38) Carbon Tetrachloride	7.95	117	2259	6.529	ug/l #	13
44) Trichloroethene	9.09	130	718	2.626	ug/l	98
51) 4-Methyl-2-Pentanone	10.23	43	348	2.760	ug/l #	36
52) Toluene	10.38	92	729	1.098	ug/l	97
53) t-1,3-Dichloropropene	10.71	75	453	1.474	ug/l	97
55) 1,1,2-Trichloroethane	10.74	97	328	1.852	ug/l #	15
60) Dibromochloromethane	10.87	129	162532	805.240	ug/l #	11
64) Tetrachloroethene	10.87	164	171372	698.754	ug/l	98
74) N-amyl acetate	12.25	43	663	2.429	ug/l #	53
76) 1,2,3-Trichloropropane	12.62	75	3169	19.244	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	3169	48.315	ug/l #	10
95) Naphthalene	15.38	128	884	1.180	ug/l #	80

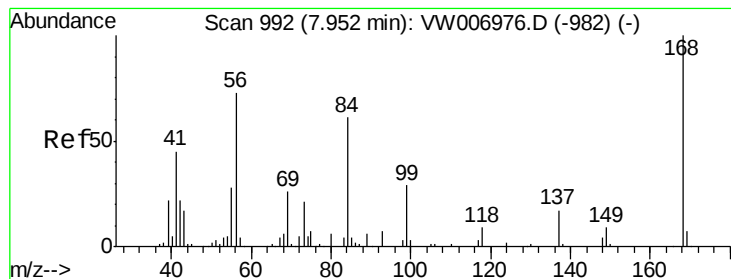
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 21 03:23:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007121.D

Acq: 28 Nov 2018 18:31

Instrument :

MSVOA_W

ClientSampleId :

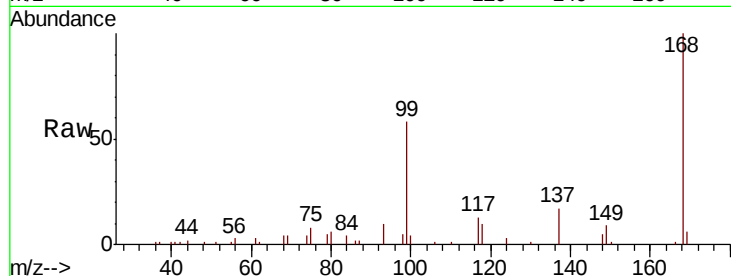
S49-0490

Tot Ion:168 Resp: 22281

Ion Ratio Lower Upper

168 100

99 57.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

12000

10000

8000

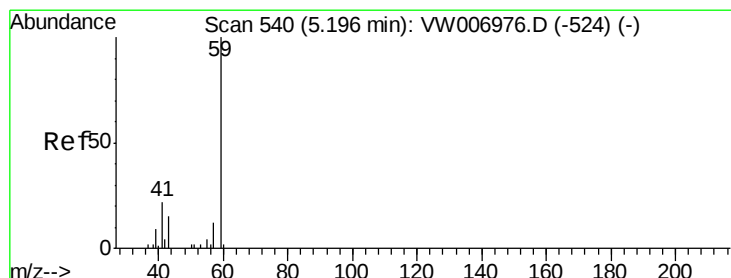
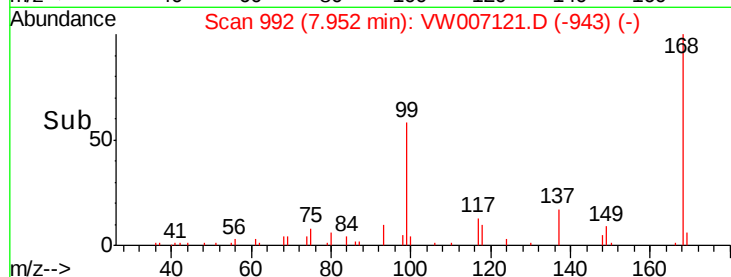
6000

4000

2000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.451 ug/l

RT: 5.21 min Scan# 543

Delta R.T. 0.02 min

Lab File: VW007121.D

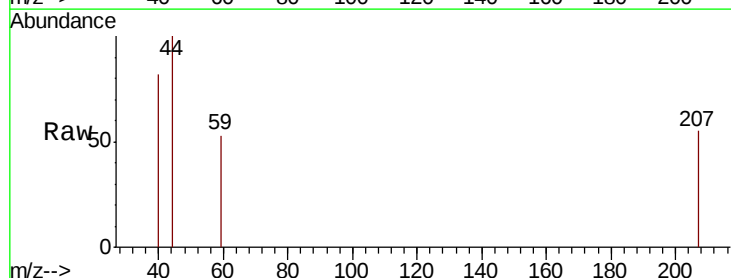
Acq: 28 Nov 2018 18:31

Tgt Ion: 59 Resp: 49

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.21

80

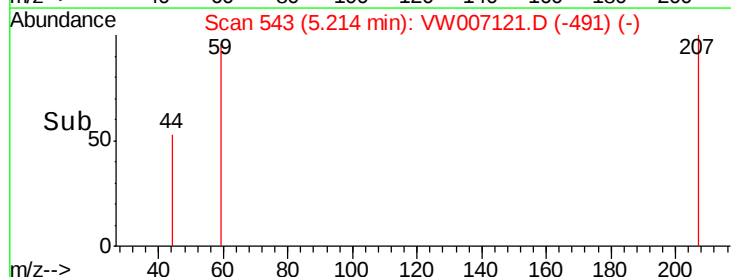
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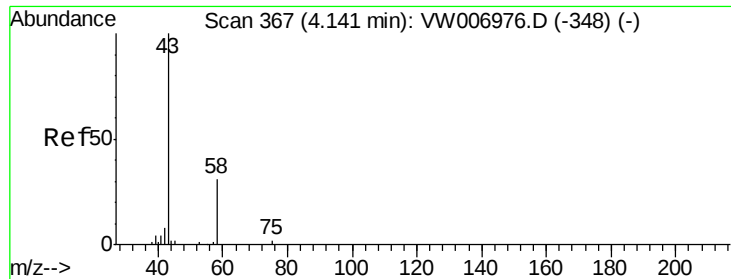
40

20

0

Time-->





#16

Acetone

Concen: 436.522 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.01 min

Lab File: VW007121.D

Acq: 28 Nov 2018 18:31

Instrument :

MSVOA_W

ClientSampleId :

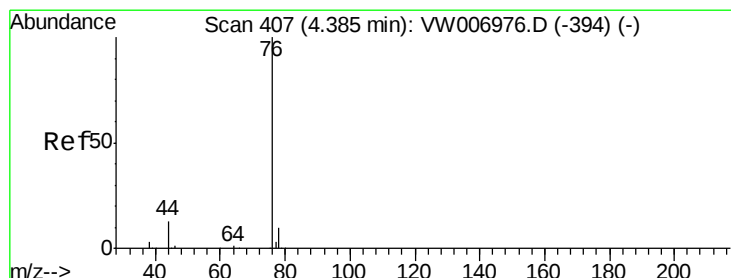
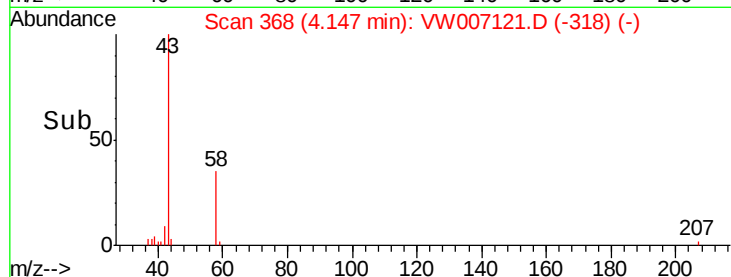
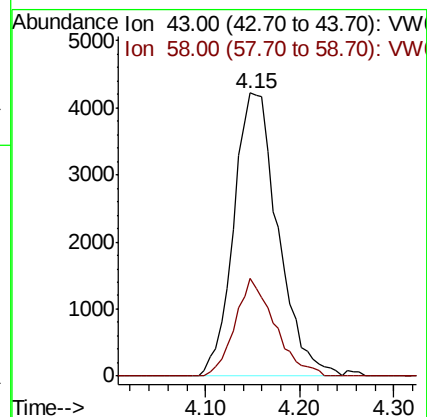
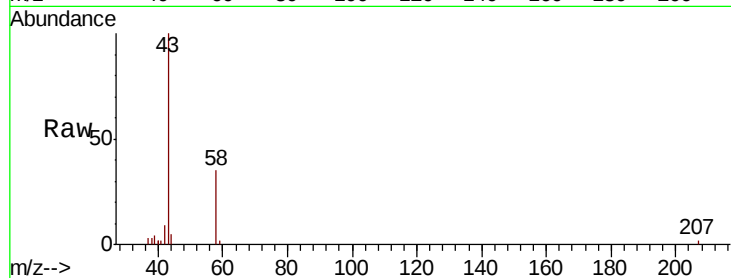
S49-0490

Tot Ion: 43 Resp: 13825

Ion Ratio Lower Upper

43 100

58 34.7 24.8 37.2



#17

Carbon Disulfide

Concen: 8.509 ug/l

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW007121.D

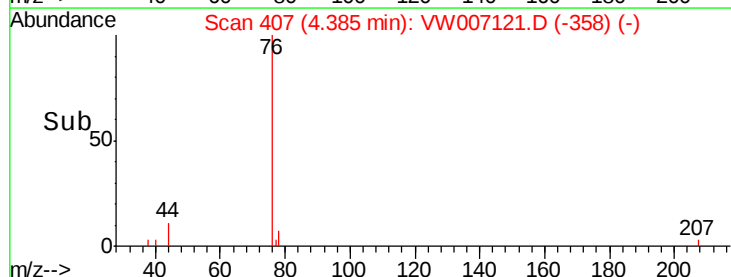
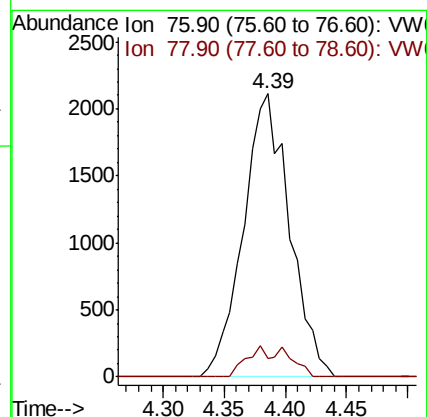
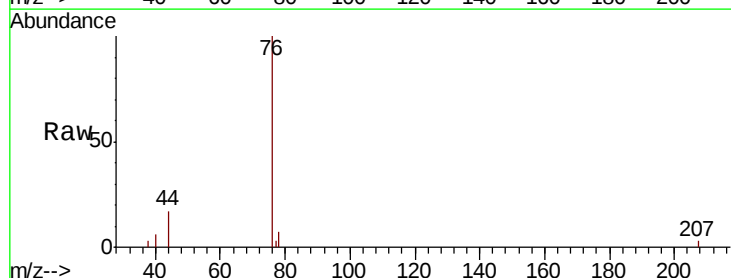
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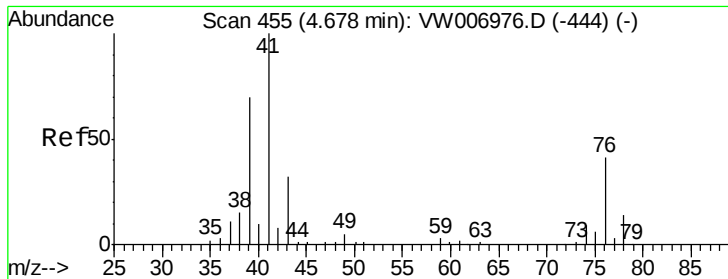
Tgt Ion: 76 Resp: 5548

Ion Ratio Lower Upper

76 100

78 6.7 7.8 11.6#

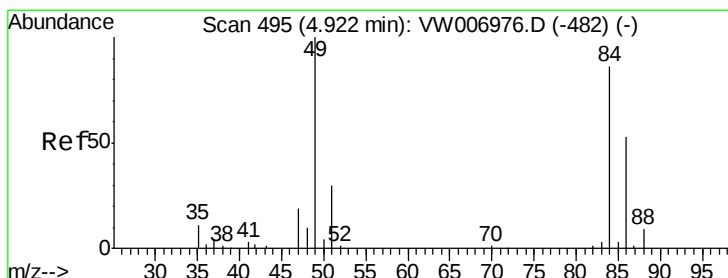
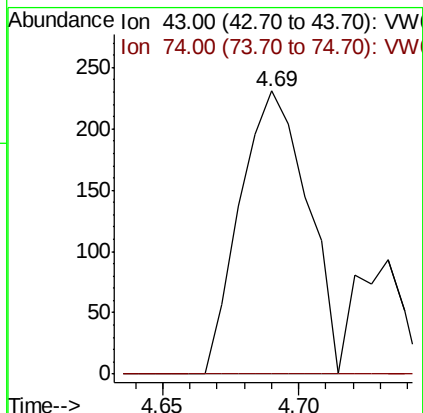
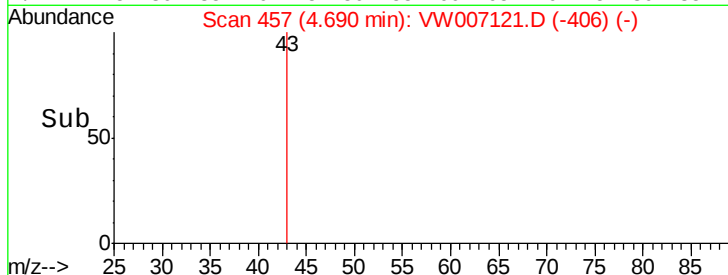
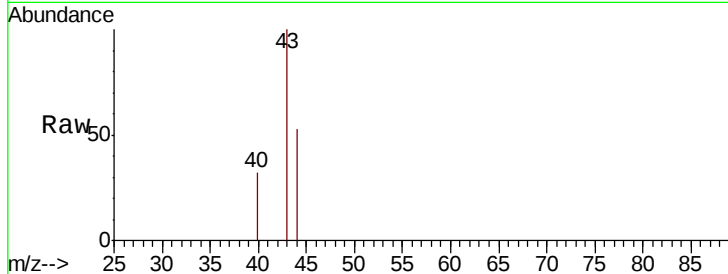




#18
Methvl Acetate
Concen: 3.493 ug/l
RT: 4.69 min Scan# 457
Delta R.T. 0.01 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

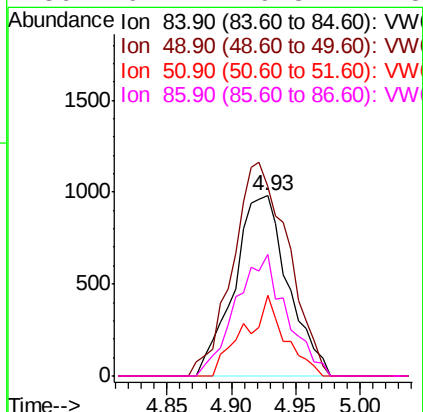
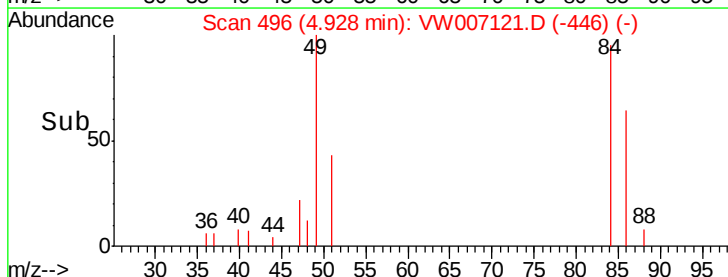
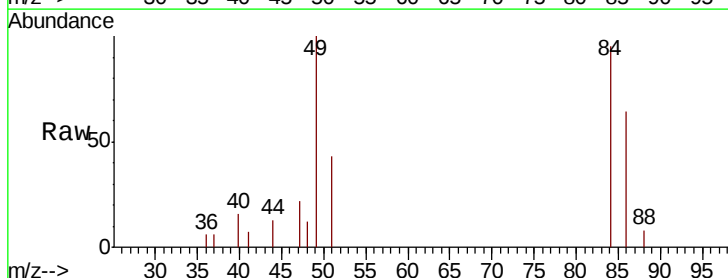
Instrument :
MSVOA_W
ClientSampled :
S49-0490

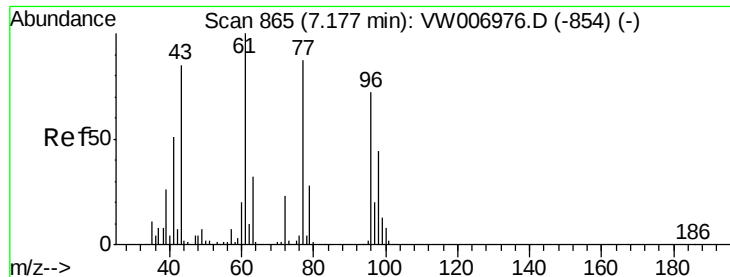
Tot Ion: 43 Resp: 394
Ion Ratio Lower Upper
43 100
74 0.0 20.1 30.1#



#20
Methylene Chloride
Concen: 6.588 ug/l
RT: 4.93 min Scan# 496
Delta R.T. 0.01 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

Tgt Ion: 84 Resp: 2846
Ion Ratio Lower Upper
84 100
49 105.6 93.4 140.0
51 44.9 28.4 42.6#
86 67.4 49.8 74.8





#25

2-Butanone

Concen: 52.891 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW007121.D

Acq: 28 Nov 2018 18:31

Instrument :

MSVOA_W

ClientSampleId :

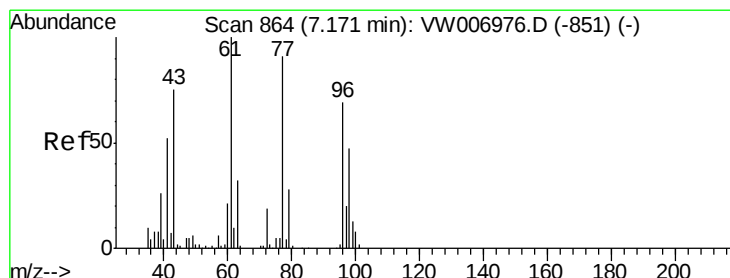
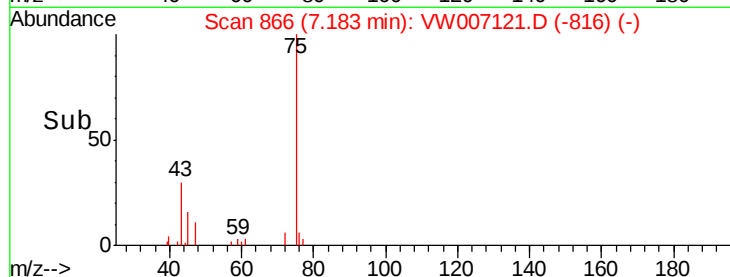
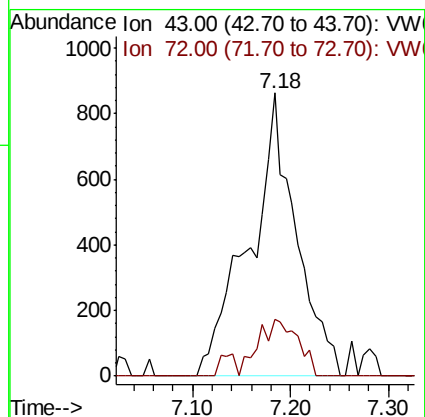
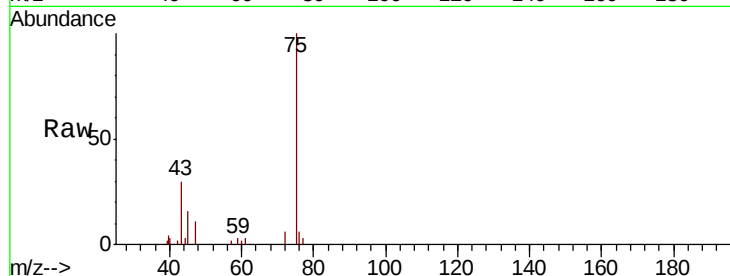
S49-0490

Tot Ion: 43 Resp: 2869

Ion Ratio Lower Upper

43 100

72 20.3 21.3 31.9#



#26

2,2-Dichloropropane

Concen: 4.161 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW007121.D

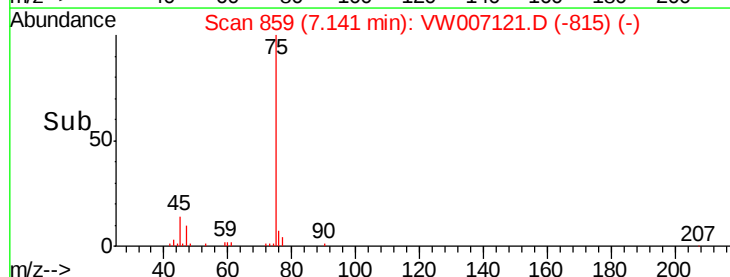
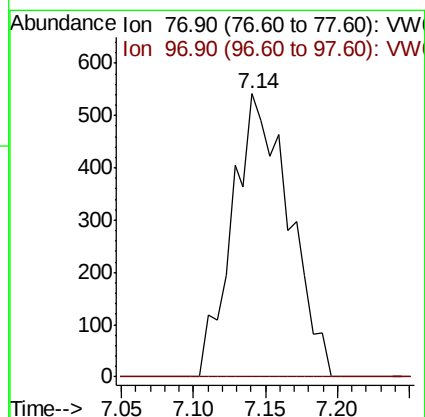
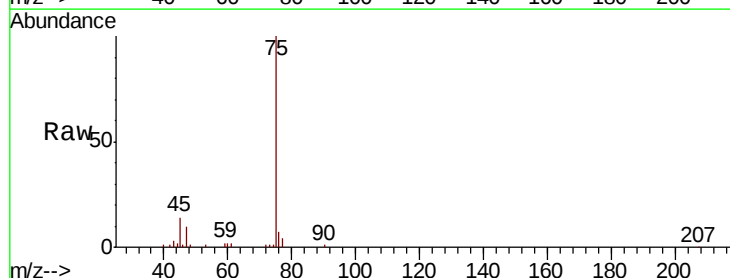
Acq: 28 Nov 2018 18:31

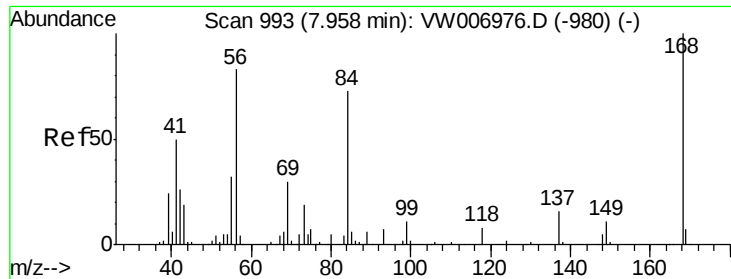
Tgt Ion: 77 Resp: 1482

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.1#

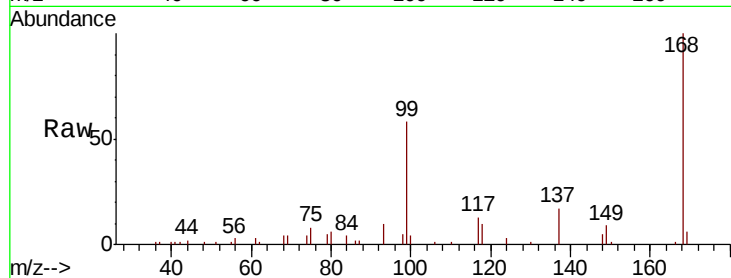




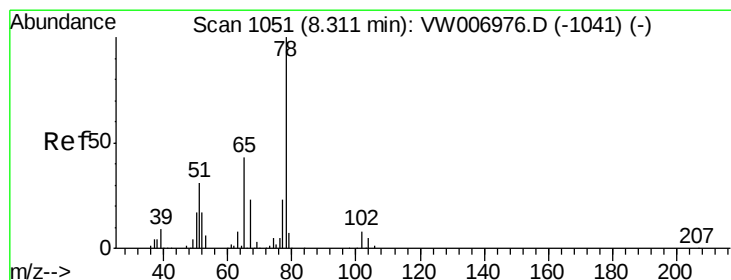
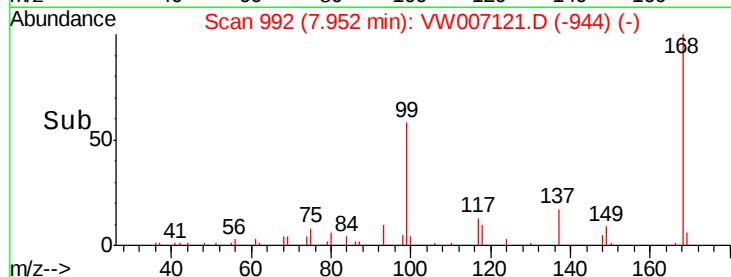
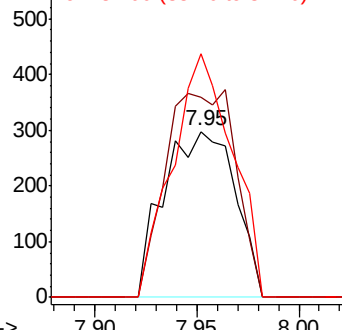
#31
Cyclohexane
Concen: 1.730 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

Instrument :
MSVOA_W
ClientSampleId :
S49-0490

Tot Ion: 56 Resp: 727
Ion Ratio Lower Upper
56 100
69 120.8 29.1 43.7#
84 146.6 70.6 105.8#

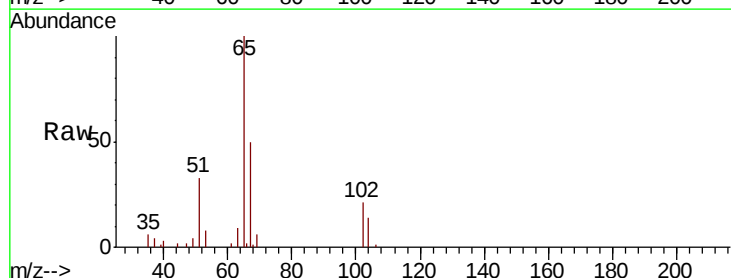


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

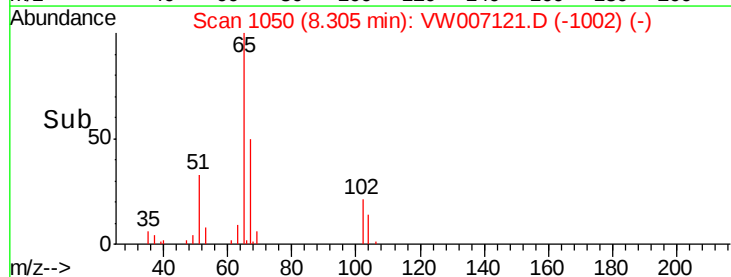
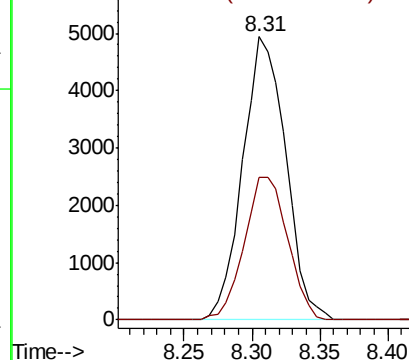


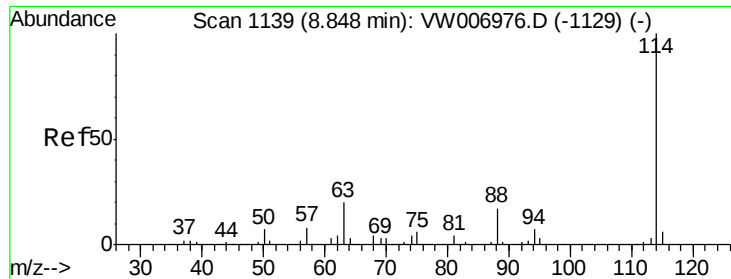
#33
1,2-Dichloroethane-d4
Concen: 50.061 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

Tgt Ion: 65 Resp: 10920
Ion Ratio Lower Upper
65 100
67 51.0 0.0 106.2



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

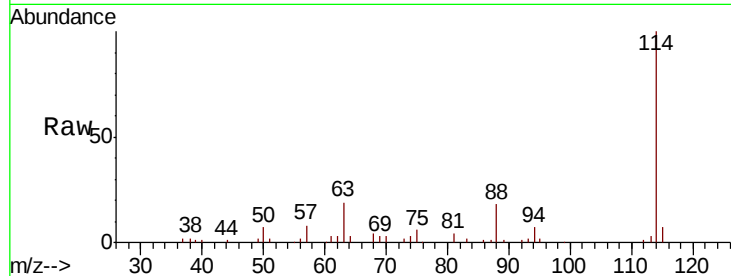




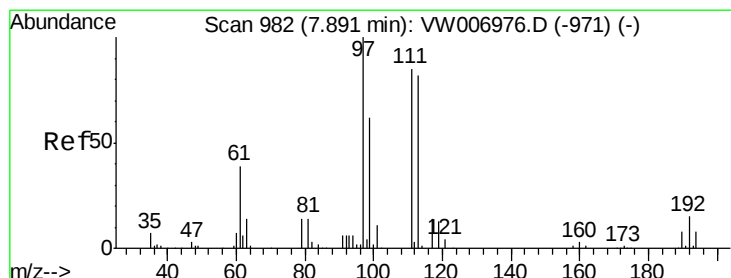
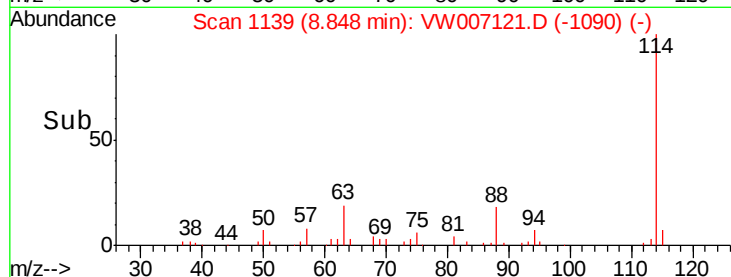
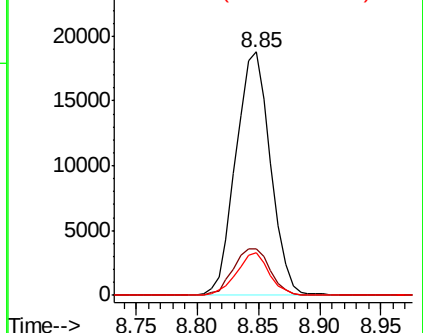
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW007121.D
 Acq: 28 Nov 2018 18:31

Instrument :
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 ClientSampleId :
 S49-0490

Tot Ion:114 Resp: 36974
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.4
 88 17.8 0.0 34.2

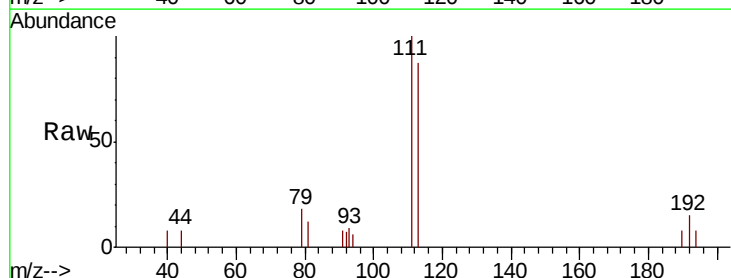


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

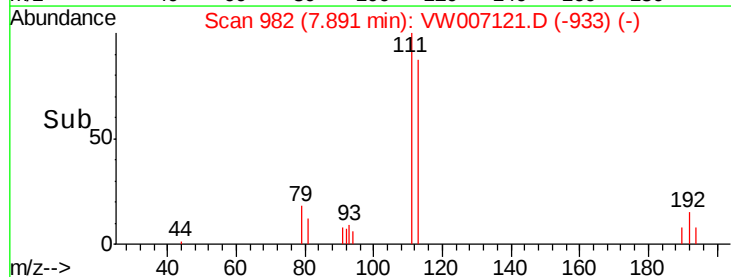
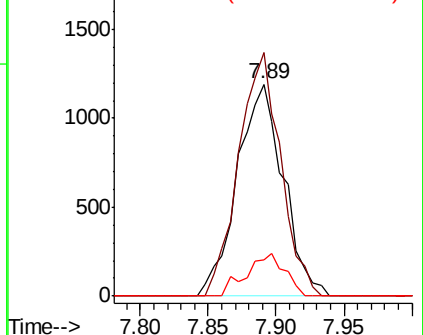


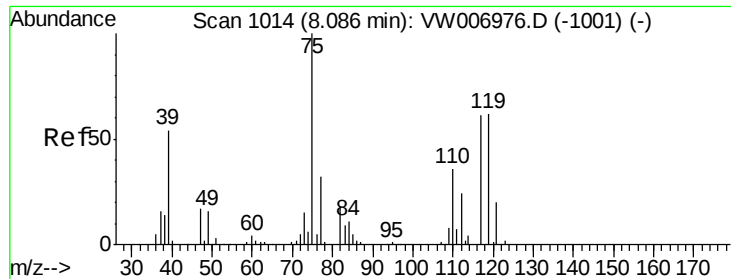
#35
 Dibromofluoromethane
 Concen: 13.510 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW007121.D
 Acq: 28 Nov 2018 18:31

Tgt Ion:113 Resp: 2821
 Ion Ratio Lower Upper
 113 100
 111 104.9 81.0 121.6
 192 16.8 15.0 22.6



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

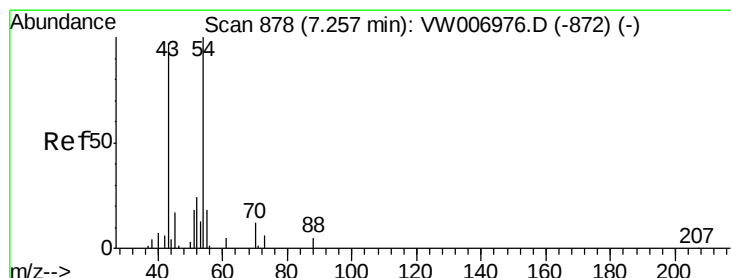
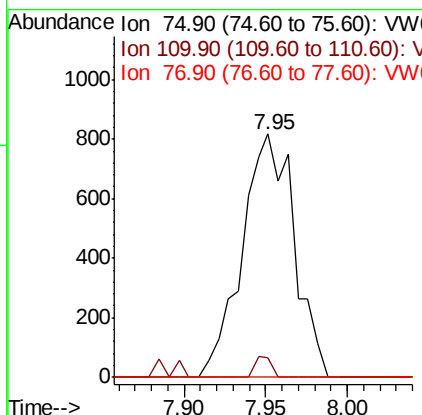
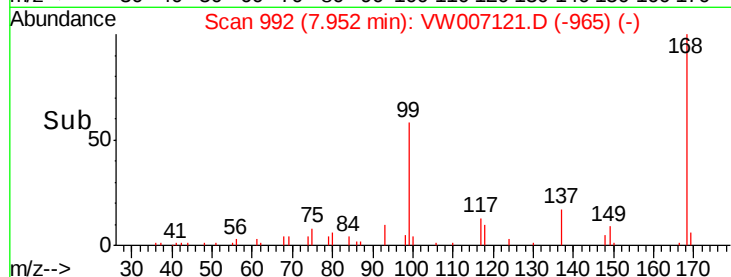
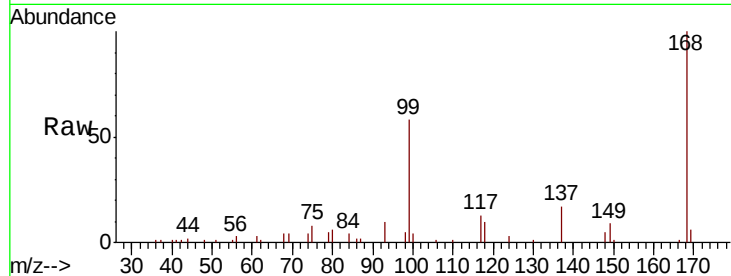




#36
 1,1-Dichloropropene
 Concen: 5.015 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW007121.D
 Acq: 28 Nov 2018 18:31

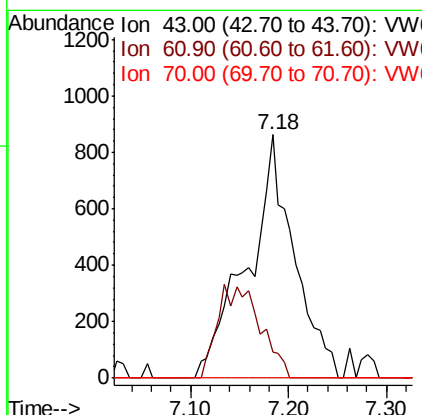
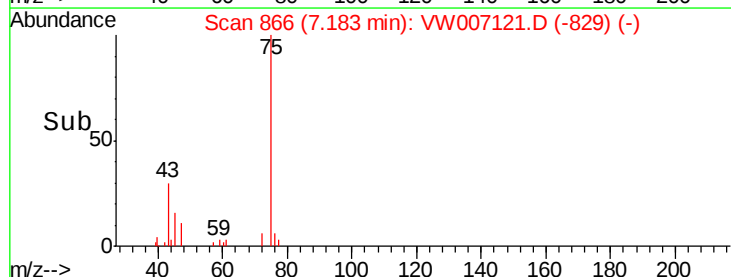
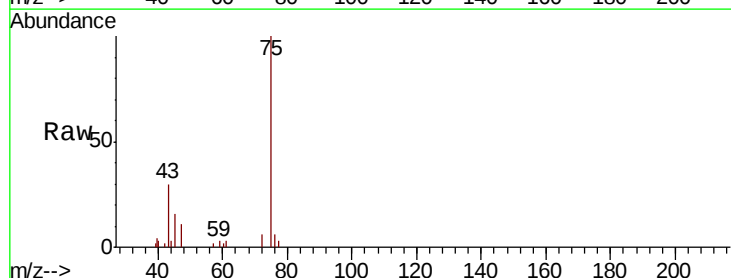
Instrument :
 MSVOA_W
 ClientSampled :
 S49-0490

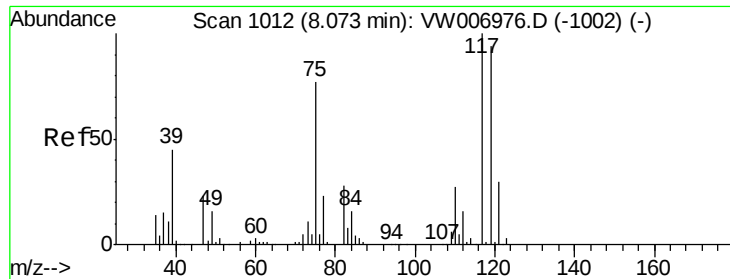
Tot Ion	Ratio	Lower	Upper
75	100		
110	2.8	18.0	54.0#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 21.912 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. -0.07 min
 Lab File: VW007121.D
 Acq: 28 Nov 2018 18:31

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.4	15.6#
70	0.0	8.8	13.2#

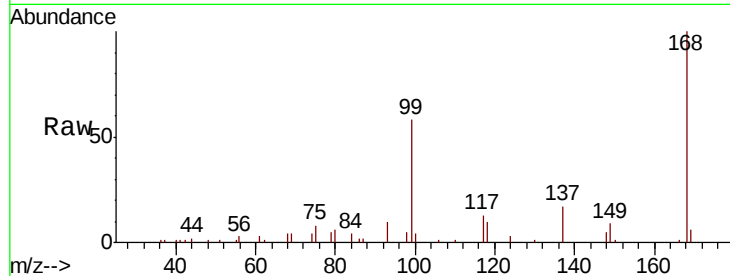




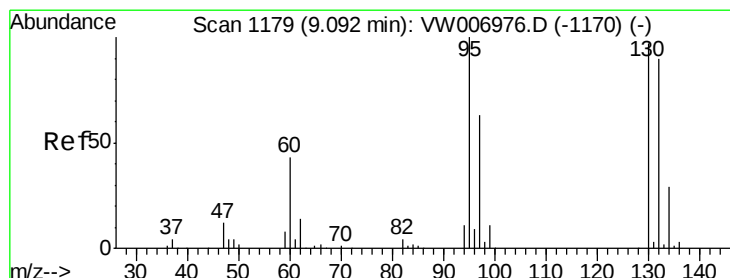
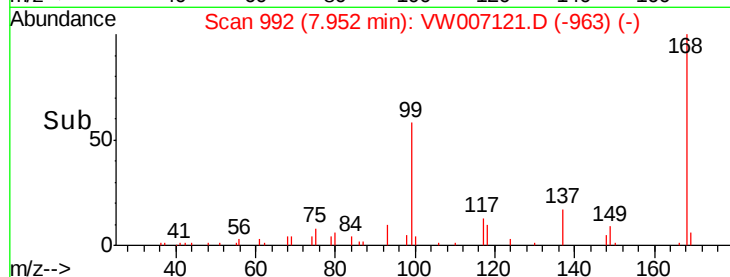
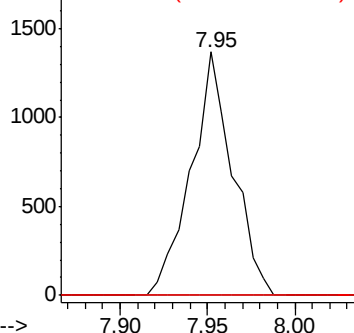
#38
Carbon Tetrachloride
Concen: 6.529 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

Instrument :
MSVOA_W
ClientSampleId :
S49-0490

Tot Ion:117 Resp: 2259
Ion Ratio Lower Upper
117 100
119 0.0 74.9 112.3#
121 0.0 23.6 35.4#

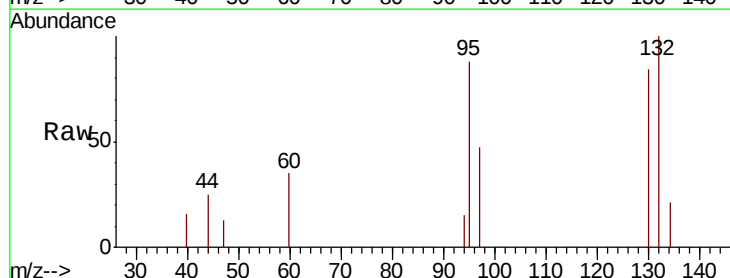


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

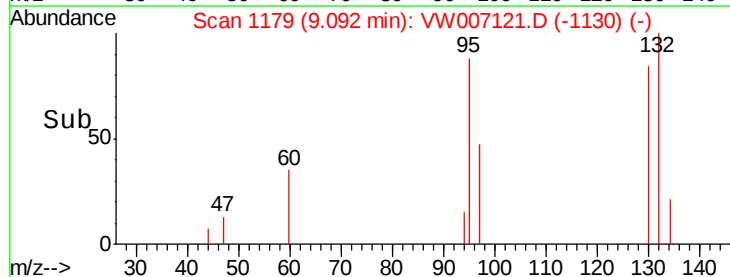
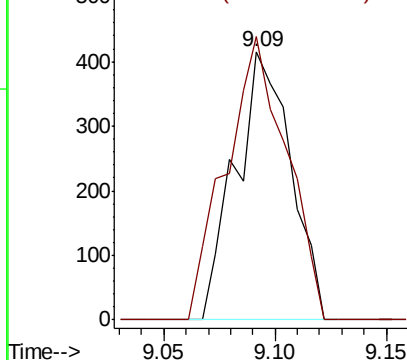


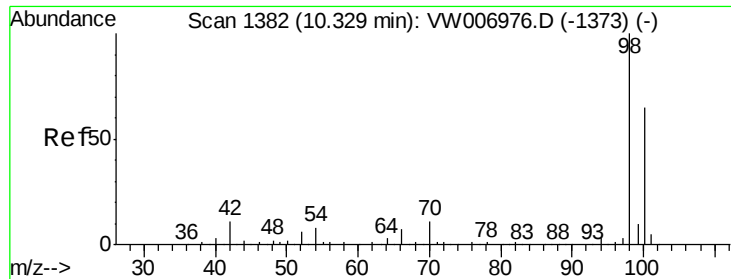
#44
Trichloroethene
Concen: 2.626 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

Tgt Ion:130 Resp: 718
Ion Ratio Lower Upper
130 100
95 105.3 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 7.041 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW007121.D

Acq: 28 Nov 2018 18:31

Instrument :

MSVOA_W

ClientSampled :

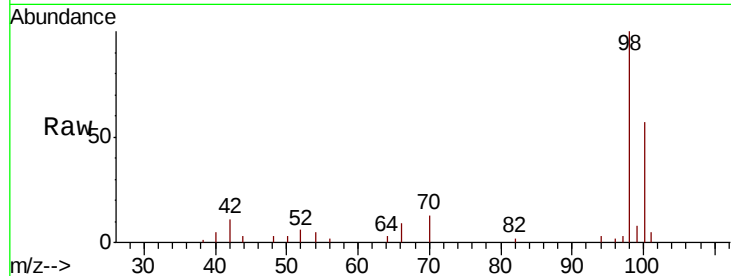
S49-0490

Tot Ion: 98 Resp: 6492

Ion Ratio Lower Upper

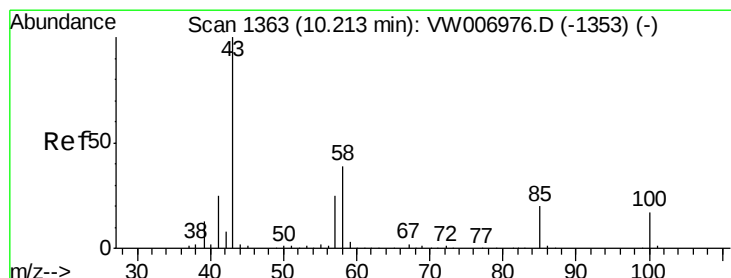
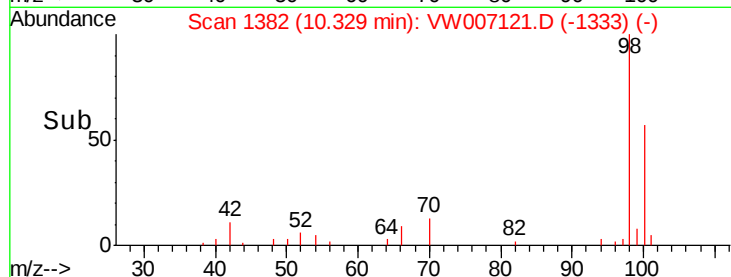
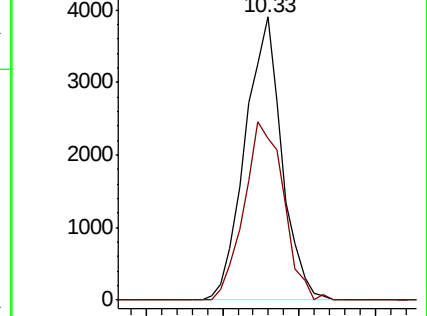
98 100

100 67.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 2.760 ug/l

RT: 10.23 min Scan# 1365

Delta R.T. 0.01 min

Lab File: VW007121.D

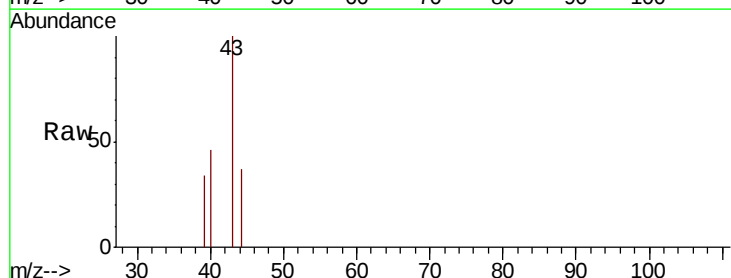
Acq: 28 Nov 2018 18:31

Tgt Ion: 43 Resp: 348

Ion Ratio Lower Upper

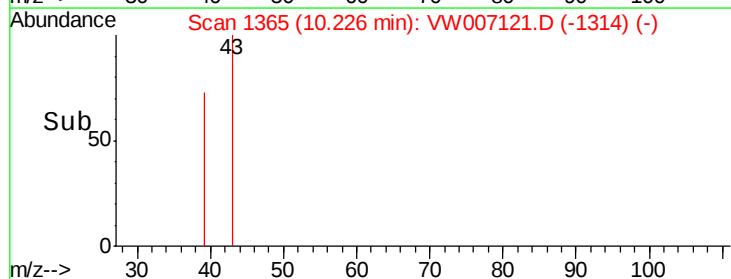
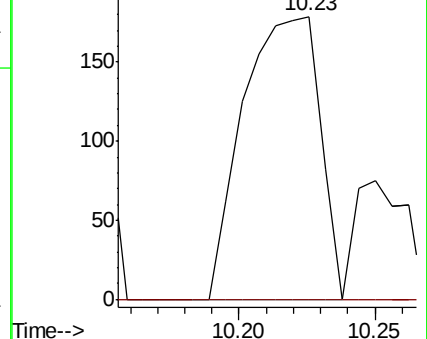
43 100

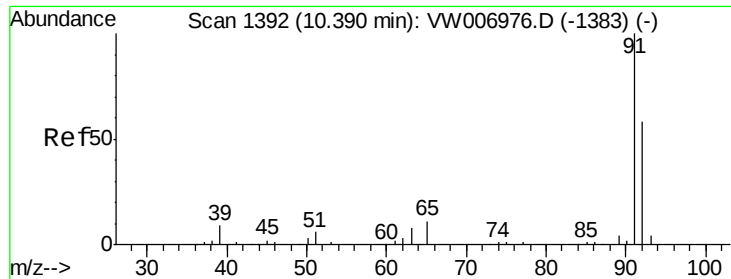
58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 1.098 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007121.D

Acq: 28 Nov 2018 18:31

Instrument :

MSVOA_W

ClientSampleId :

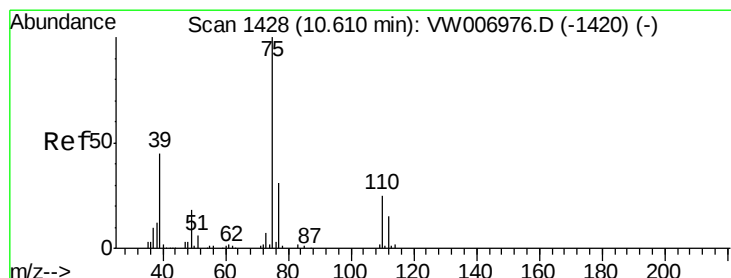
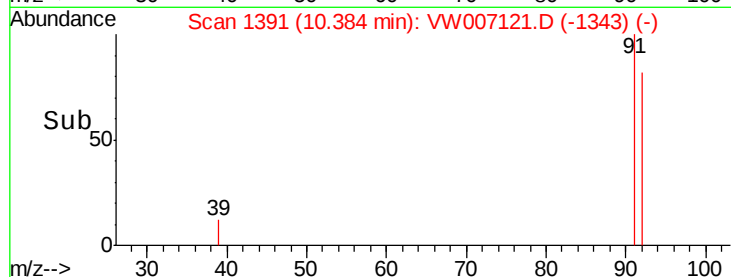
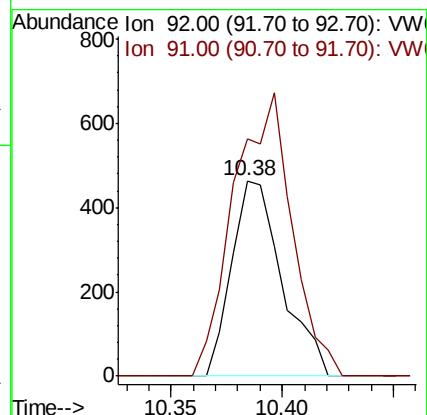
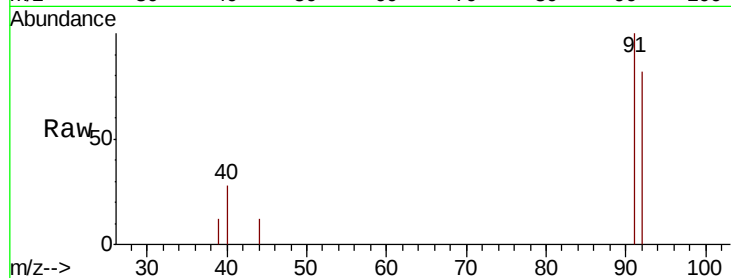
S49-0490

Tot Ion: 92 Resp: 729

Ion Ratio Lower Upper

92 100

91 167.8 137.3 205.9



#53

t-1,3-Dichloropropene

Concen: 1.474 ug/l

RT: 10.71 min Scan# 1444

Delta R.T. 0.10 min

Lab File: VW007121.D

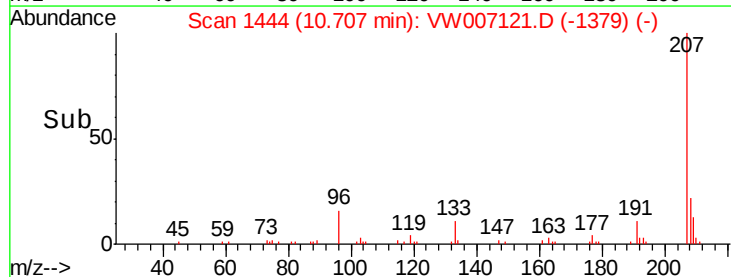
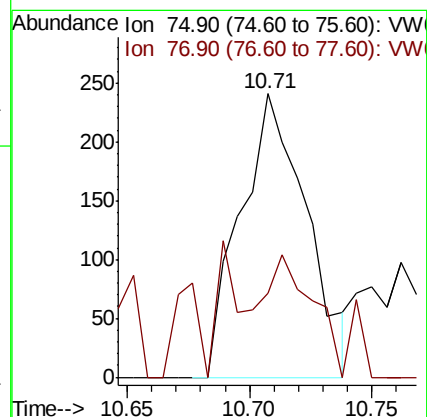
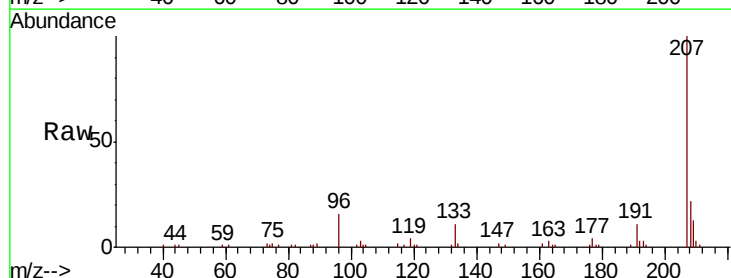
Acq: 28 Nov 2018 18:31

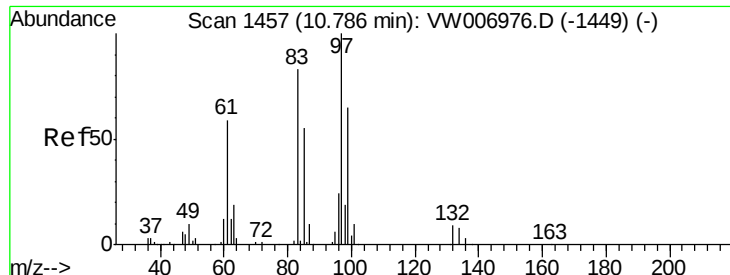
Tgt Ion: 75 Resp: 453

Ion Ratio Lower Upper

75 100

77 29.5 24.7 37.1

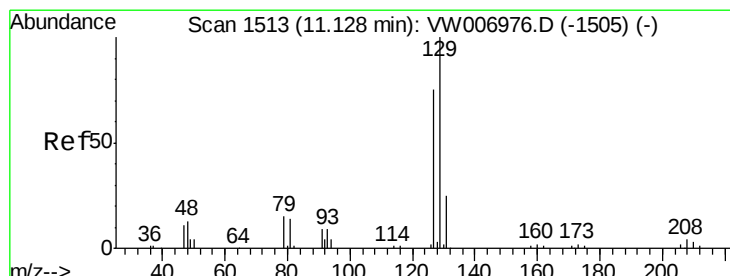
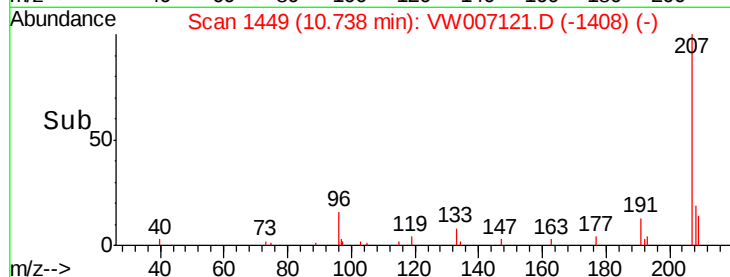
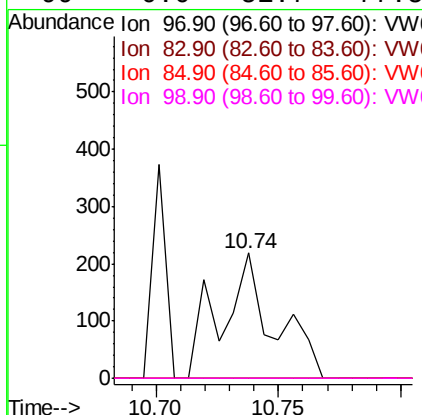
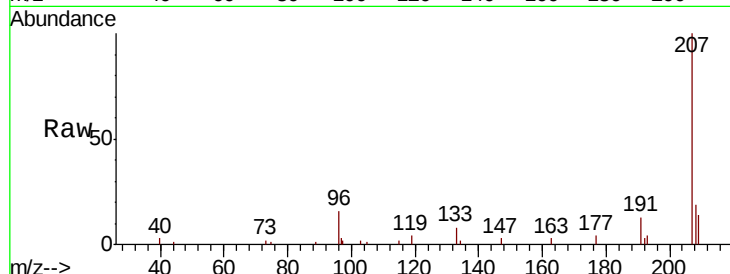




#55
 1,1,2-Trichloroethane
 Concen: 1.852 ug/l
 RT: 10.74 min Scan# 1449
 Delta R.T. -0.05 min
 Lab File: VW007121.D
 Acq: 28 Nov 2018 18:31

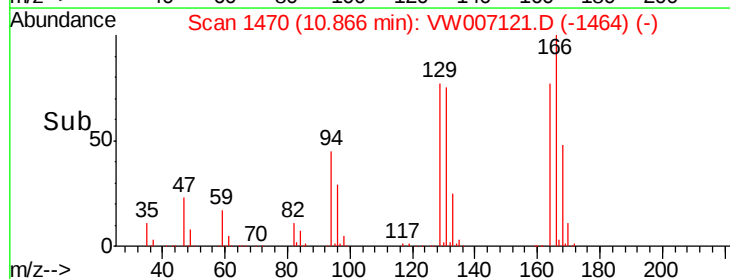
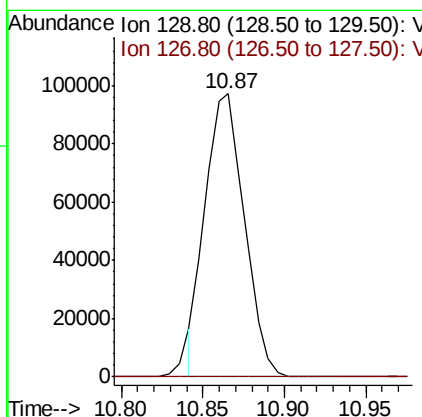
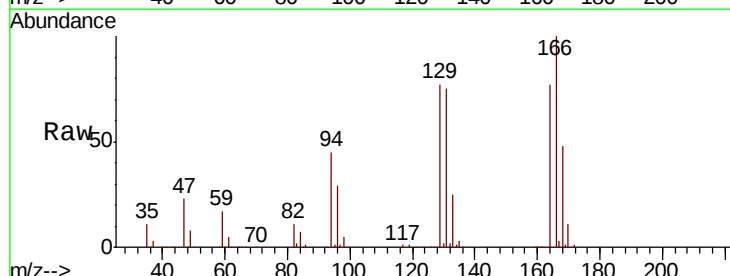
Instrument :
 MSVOA_W
 ClientSampleId :
 S49-0490

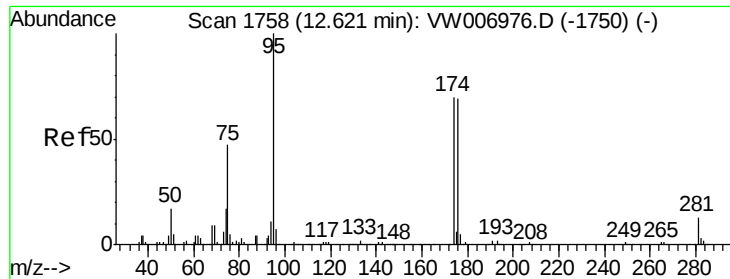
Tot Ion: 97 Resp: 328
 Ion Ratio Lower Upper
 97 100
 83 0.0 66.4 99.6#
 85 0.0 44.1 66.1#
 99 0.0 51.7 77.5#



#60
 Dibromochloromethane
 Concen: 805.240 ug/l
 RT: 10.87 min Scan# 1470
 Delta R.T. -0.26 min
 Lab File: VW007121.D
 Acq: 28 Nov 2018 18:31

Tgt Ion: 129 Resp: 162532
 Ion Ratio Lower Upper
 129 100
 127 0.1 38.3 114.8#

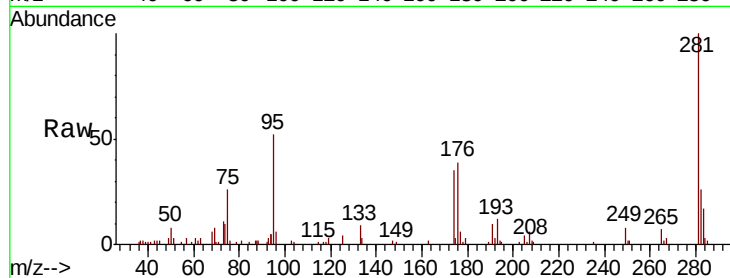




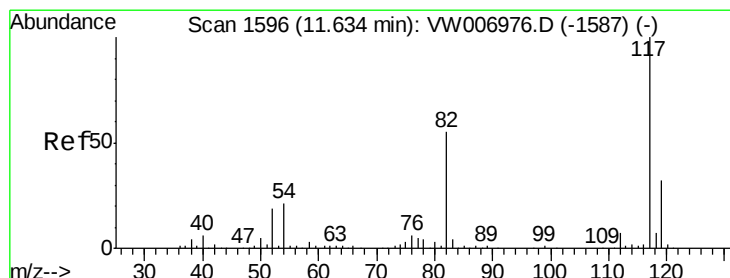
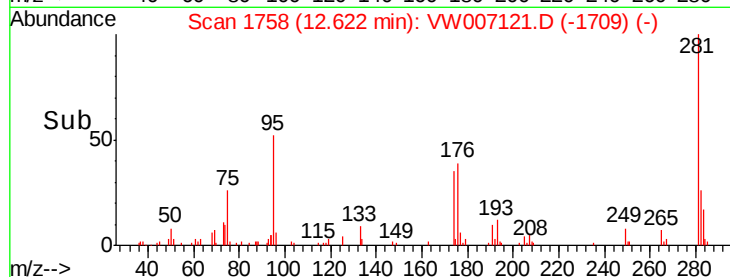
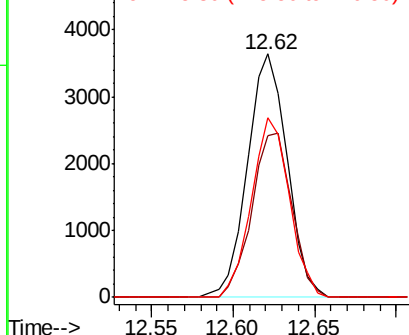
#62
4-Bromofluorobenzene
Concen: 16.969 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

Instrument :
MSVOA_W
ClientSampled :
S49-0490

Tot Ion	95	Resp	6157
Ion Ratio	Lower	Upper	
95	100		
174	68.1	0.0	143.6
176	70.2	0.0	140.4

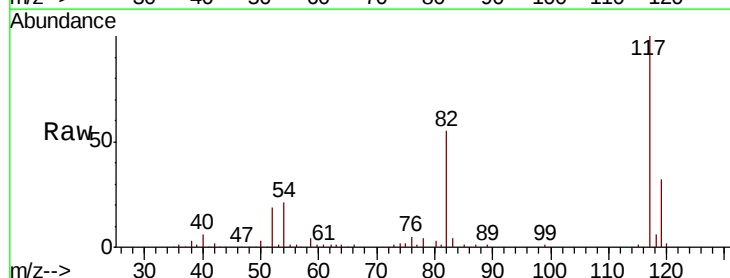


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

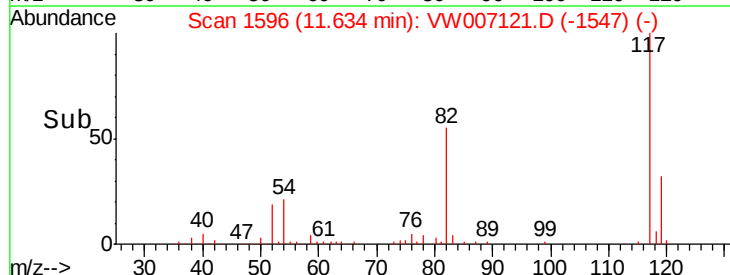
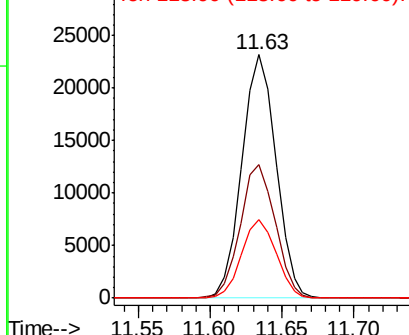


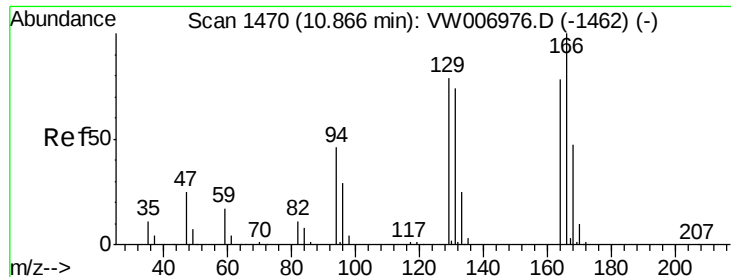
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

Tgt Ion	117	Resp	38123
Ion Ratio	Lower	Upper	
117	100		
82	54.9	44.2	66.2
119	32.1	25.9	38.9



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





#64

Tetrachloroethene

Concen: 698.754 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW007121.D

Acq: 28 Nov 2018 18:31

Instrument :

MSVOA_W

ClientSampleId :

S49-0490

Tot Ion:164 Resp: 171372

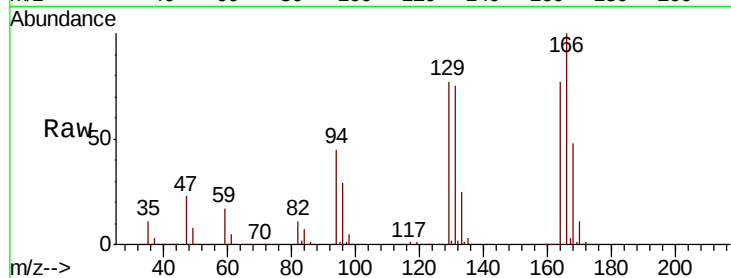
Ion Ratio Lower Upper

164 100

166 129.1 102.1 153.1

129 99.9 80.4 120.6

131 97.3 75.2 112.8



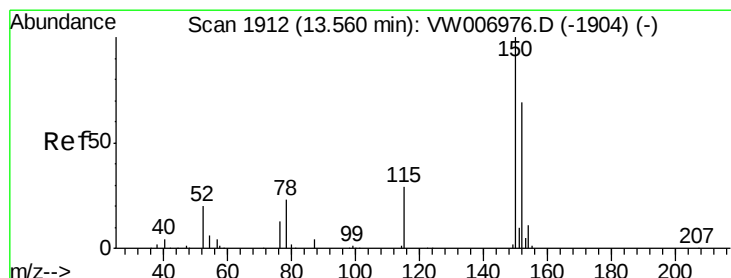
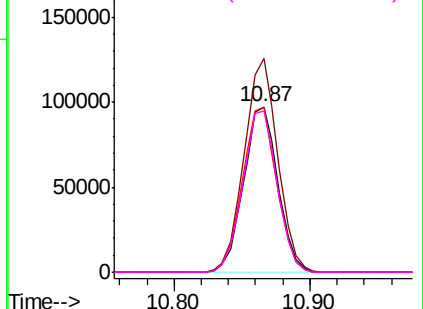
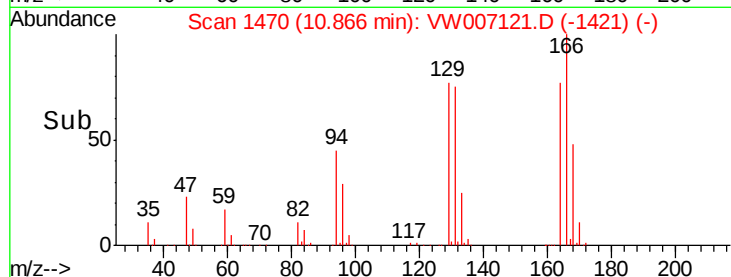
Abundance

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: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW007121.D

Acq: 28 Nov 2018 18:31

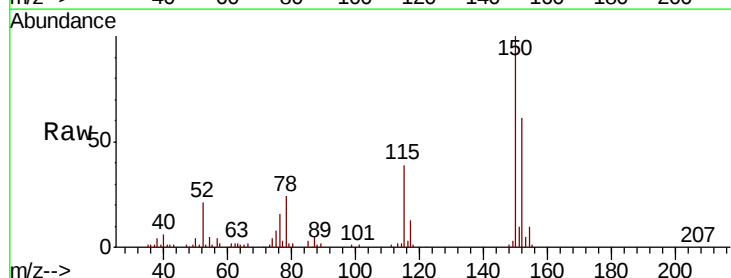
Tgt Ion:152 Resp: 20956

Ion Ratio Lower Upper

152 100

115 61.8 31.4 94.2

150 154.5 0.0 353.4

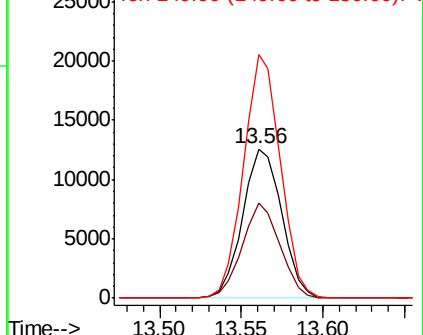
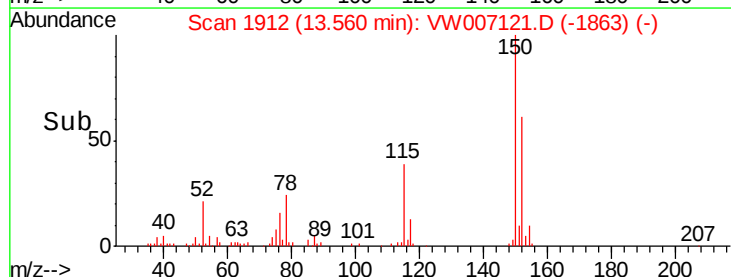


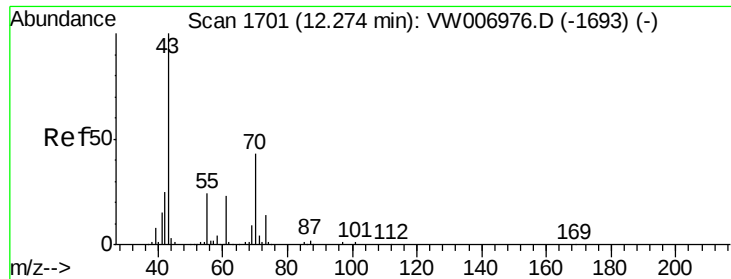
Abundance

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

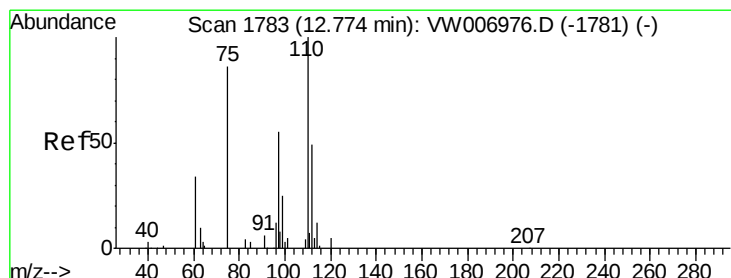
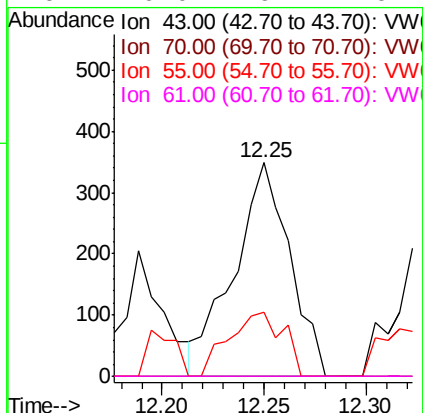
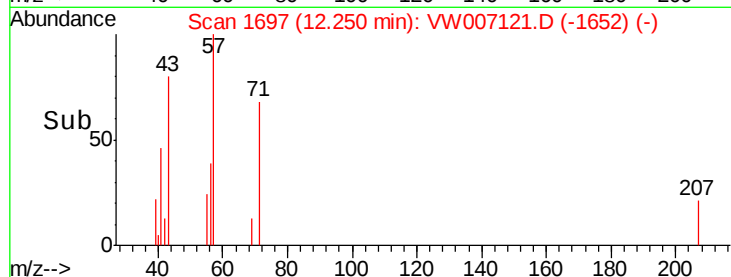
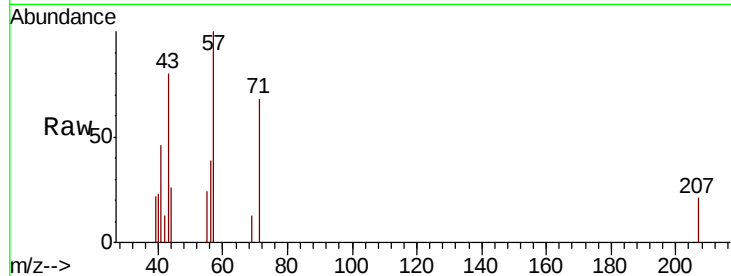




#74
N-amvl acetate
Concen: 2.429 ug/l
RT: 12.25 min Scan# 1697
Delta R.T. -0.02 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

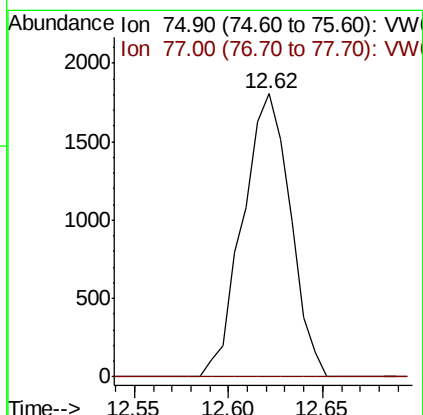
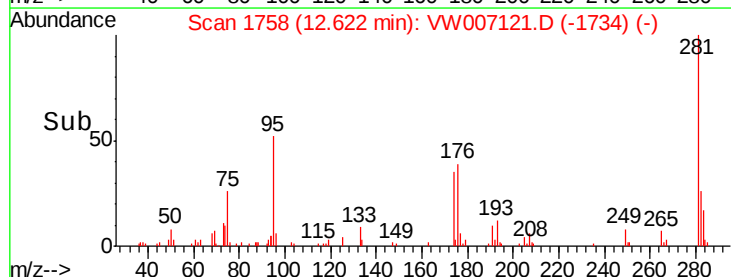
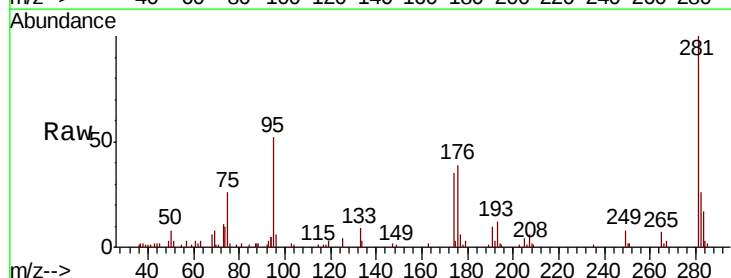
Instrument :
MSVOA_W
ClientSampled :
S49-0490

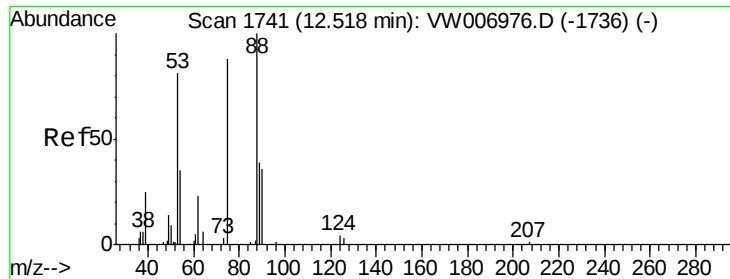
Tot Ion: 43 Resp: 663
Ion Ratio Lower Upper
43 100
70 0.0 34.0 51.0#
55 29.4 19.4 29.0#
61 0.0 19.4 29.2#



#76
1,2,3-Trichloropropane
Concen: 19.244 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW007121.D
Acq: 28 Nov 2018 18:31

Tgt Ion: 75 Resp: 3169
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#81

trans-1,4-Dichloro-2-butene

Concen: 48.315 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007121.D

Acq: 28 Nov 2018 18:31

Instrument :

MSVOA_W

ClientSampleId :

S49-0490

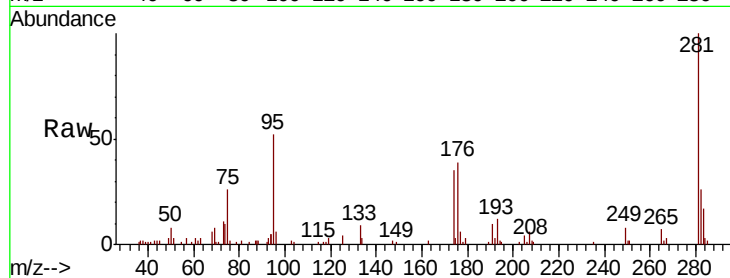
Tot Ion: 75 Resp: 3169

Ion Ratio Lower Upper

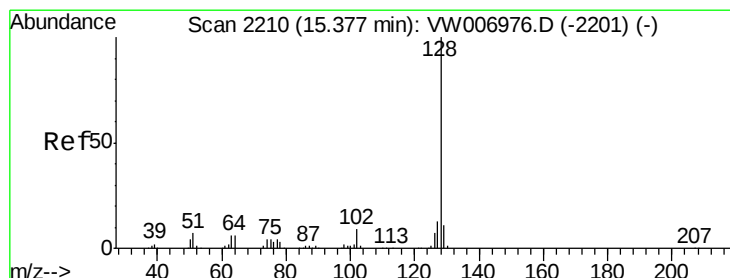
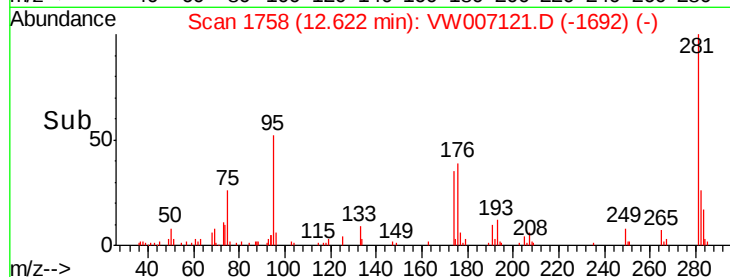
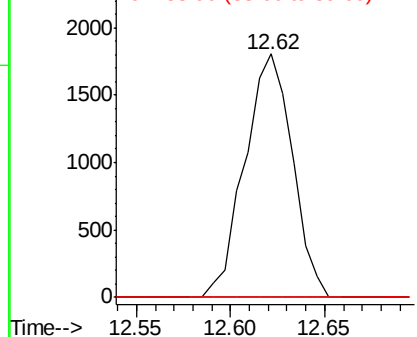
75 100

53 0.0 77.6 116.4#

89 0.0 39.3 58.9#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 1.180 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW007121.D

Acq: 28 Nov 2018 18:31

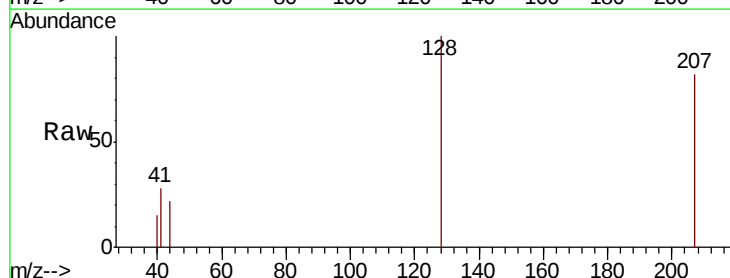
Tgt Ion: 128 Resp: 884

Ion Ratio Lower Upper

128 100

127 6.0 10.5 15.7#

129 2.5 8.7 13.1#



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

