

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122118\
 Data File : VD060692.D
 Acq On : 21 Dec 2018 19:07
 Operator : VA/AP
 Sample : J6192-03
 Misc : 7.00g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-122018

Quant Time: Dec 21 22:28:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.44	168	30454	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	7.48	114	53544	50.00	ug/l	0.04
63) Chlorobenzene-d5	11.31	117	49443	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	13.39	152	18658	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.82	65	41825	198.73	ug/l	0.03
Spiked Amount			Recovery	=	397.46%	
35) Dibromofluoromethane	6.36	113	38749	98.87	ug/l	0.03
Spiked Amount			Recovery	=	197.74%	
50) Toluene-d8	9.49	98	69455	59.40	ug/l	0.03
Spiked Amount			Recovery	=	118.80%	
62) 4-Bromofluorobenzene	12.45	95	23733	57.95	ug/l	0.03
Spiked Amount			Recovery	=	115.90%	

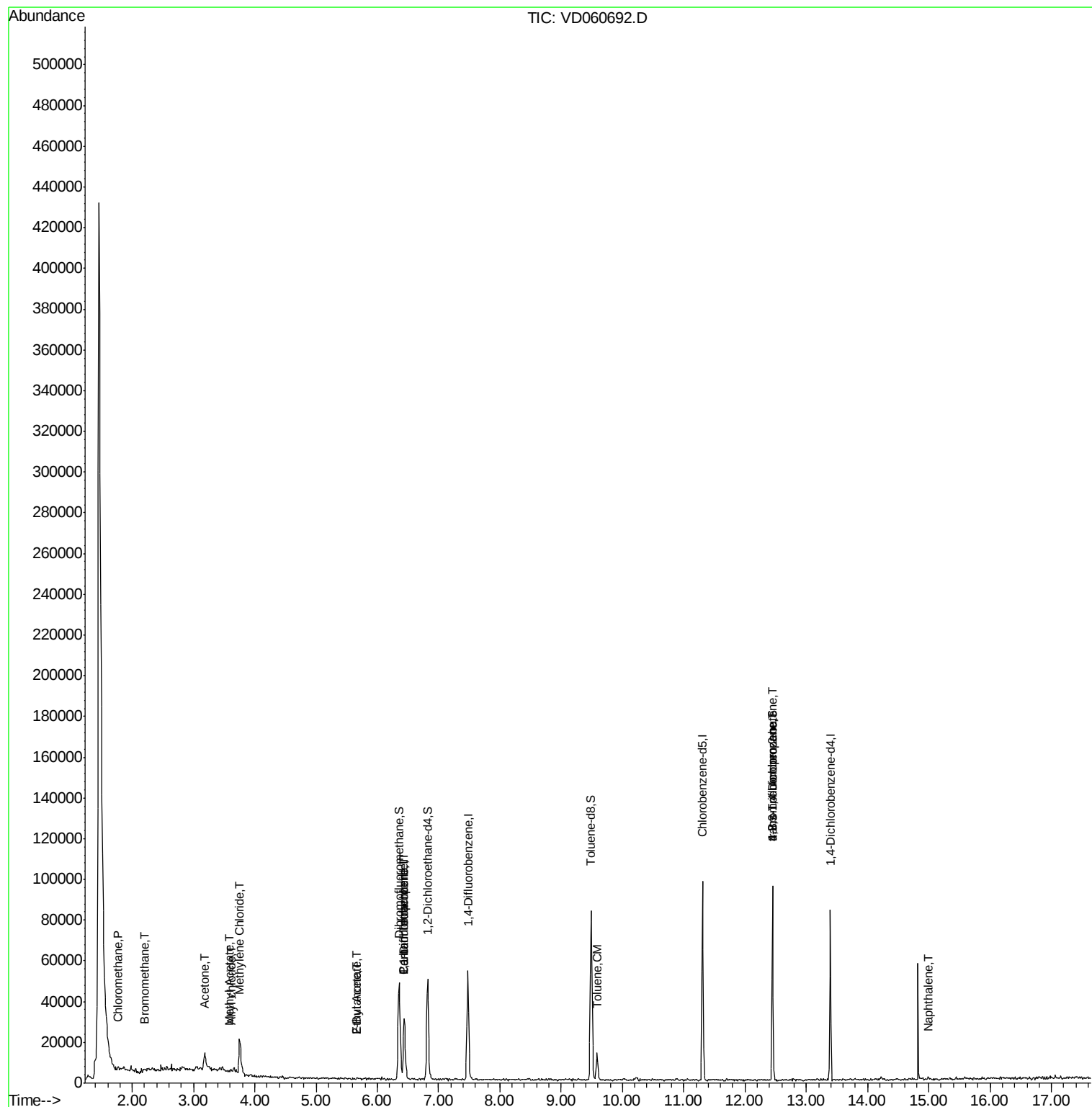
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.77	50	1036	2.893	ug/l #	41
5) Bromomethane	2.20	94	1891	29.691	ug/l #	70
14) Allyl chloride	3.62	41	657	2.124	ug/l #	73
16) Acetone	3.18	43	16292	443.275	ug/l #	90
18) Methyl Acetate	3.58	43	1317	14.459	ug/l #	63
20) Methylene Chloride	3.75	84	9883	25.892	ug/l	96
25) 2-Butanone	5.65	43	1208	17.176	ug/l #	61
36) 1,1-Dichloropropene	6.44	75	1964	3.562	ug/l #	40
37) Ethyl Acetate	5.65	43	1208	5.239	ug/l #	69
38) Carbon Tetrachloride	6.44	117	1958	4.025	ug/l #	12
52) Toluene	9.59	92	6459	7.234	ug/l	78
76) 1,2,3-Trichloropropane	12.45	75	9707	45.697	ug/l #	41
81) trans-1,4-Dichloro-2-buten	12.45	75	9708	165.394	ug/l #	13
95) Naphthalene	14.99	128	1400	2.866	ug/l #	70

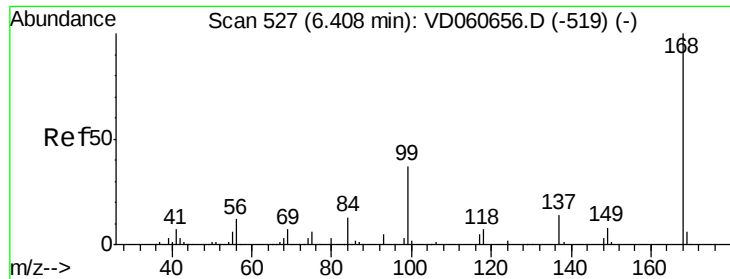
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.44 min Scan# 530

Delta R.T. 0.03 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

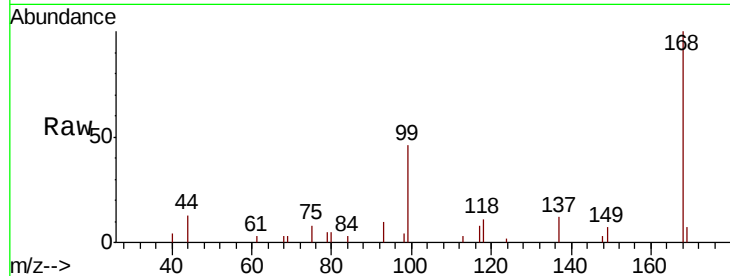
HD-01-122018

Tot Ion:168 Resp: 30454

Ion Ratio Lower Upper

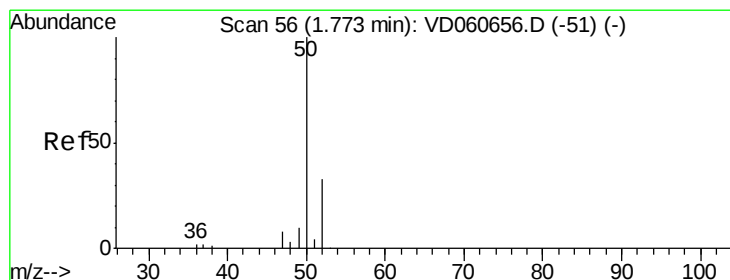
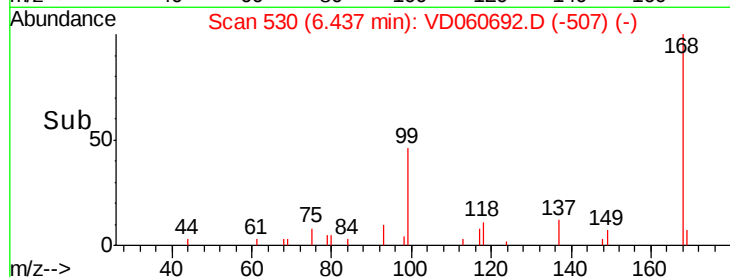
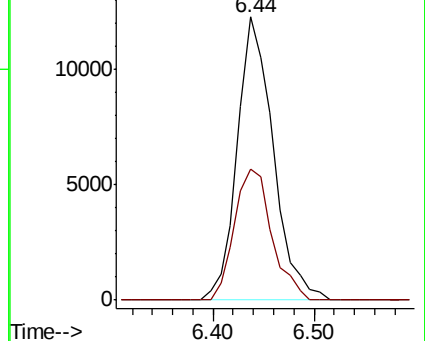
168 100

99 46.1 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.893 ug/l

RT: 1.77 min Scan# 56

Delta R.T. -0.00 min

Lab File: VD060692.D

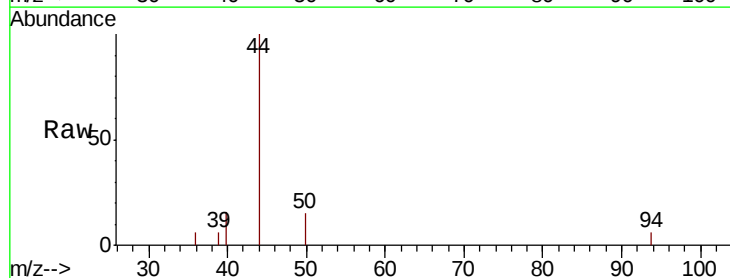
Acq: 21 Dec 2018 19:07

Tgt Ion: 50 Resp: 1036

Ion Ratio Lower Upper

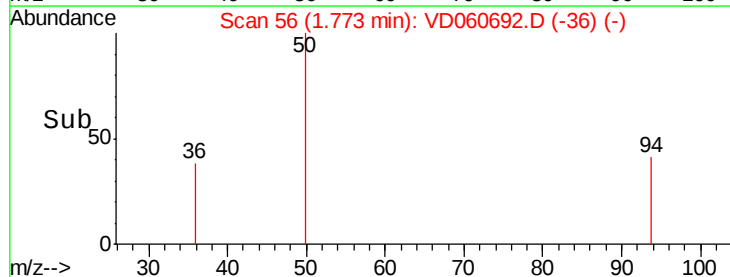
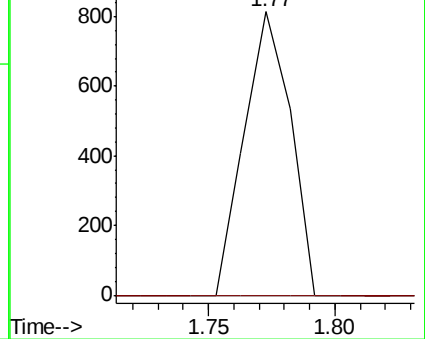
50 100

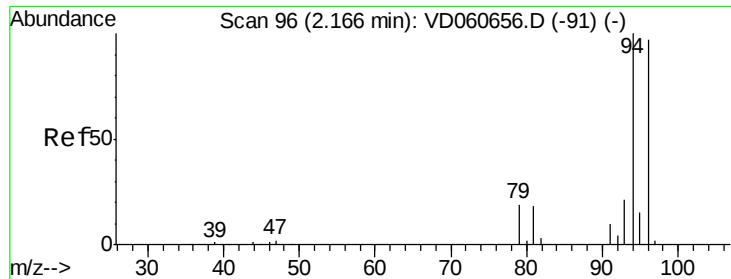
52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 29.691 ug/l

RT: 2.20 min Scan# 99

Delta R.T. 0.03 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

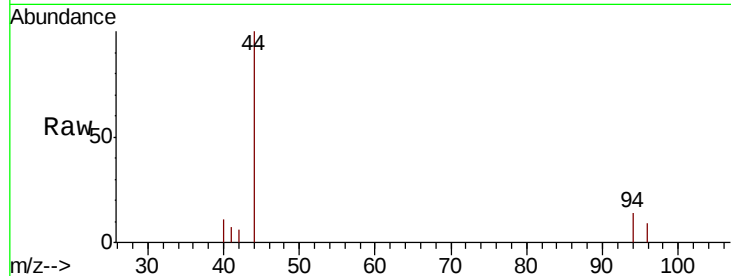
HD-01-122018

Tot Ion: 94 Resp: 1891

Ion Ratio Lower Upper

94 100

96 67.2 77.2 115.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

800

600

400

200

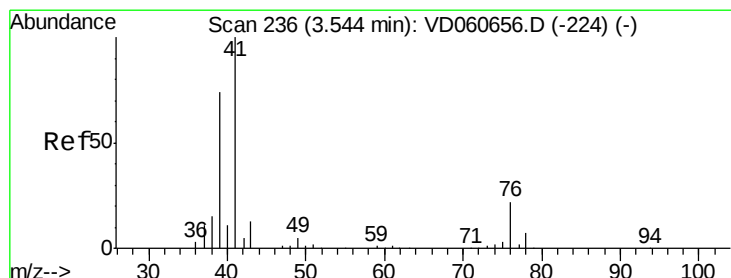
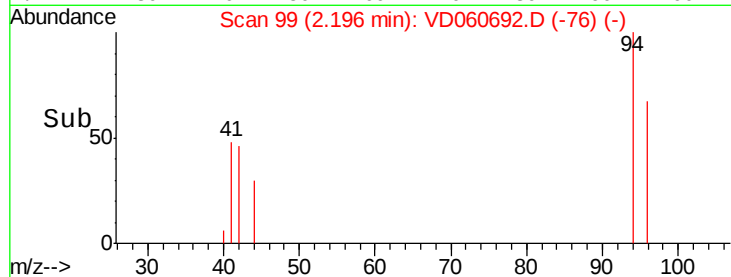
0

2.15

2.20

2.25

Time-->



#14

Allyl chloride

Concen: 2.124 ug/l

RT: 3.62 min Scan# 244

Delta R.T. 0.08 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

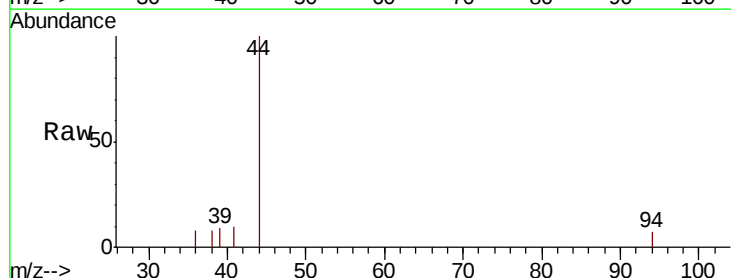
Tgt Ion: 41 Resp: 657

Ion Ratio Lower Upper

41 100

39 89.3 59.6 89.4

76 0.0 21.8 32.6#



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

800

600

400

200

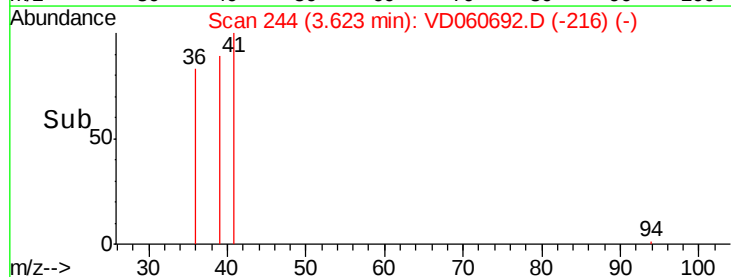
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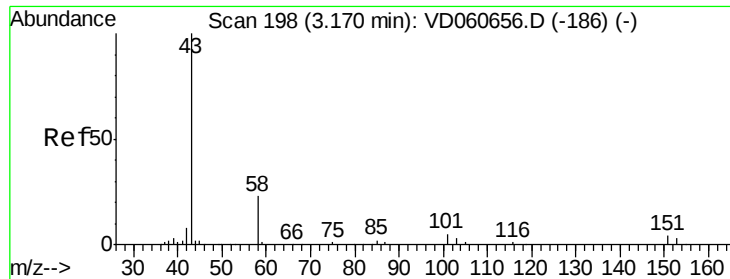
3.60

3.62

3.65

Time-->





#16

Acetone

Concen: 443.275 ug/l

RT: 3.18 min Scan# 199

Delta R.T. 0.01 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

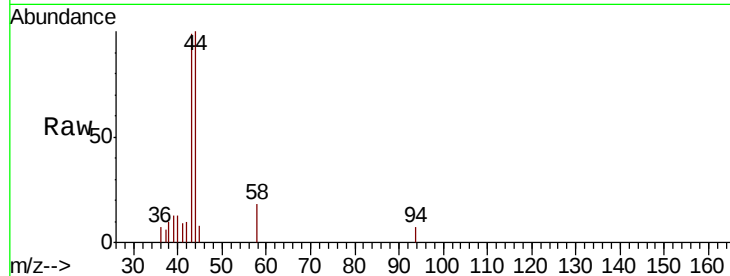
HD-01-122018

Tot Ion: 43 Resp: 16292

Ion Ratio Lower Upper

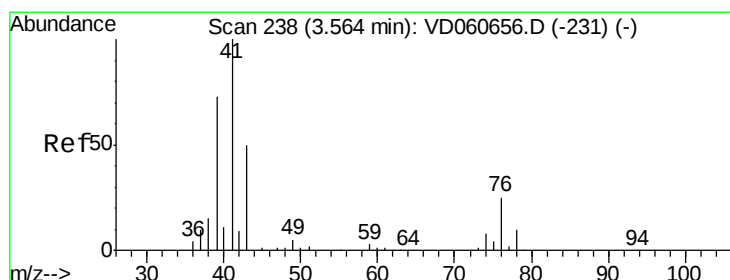
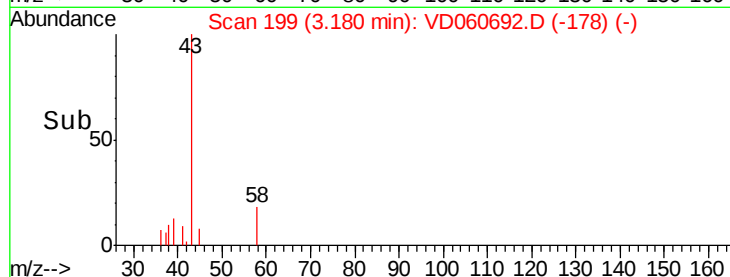
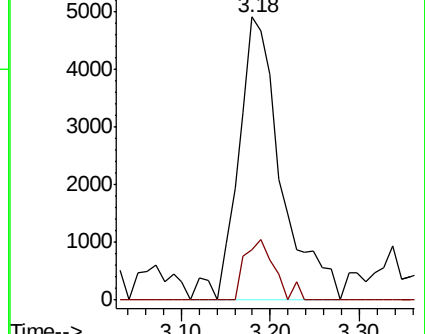
43 100

58 17.8 18.2 27.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 14.459 ug/l

RT: 3.58 min Scan# 240

Delta R.T. 0.02 min

Lab File: VD060692.D

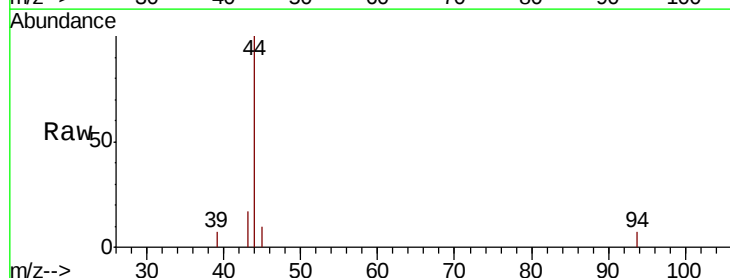
Acq: 21 Dec 2018 19:07

Tgt Ion: 43 Resp: 1317

Ion Ratio Lower Upper

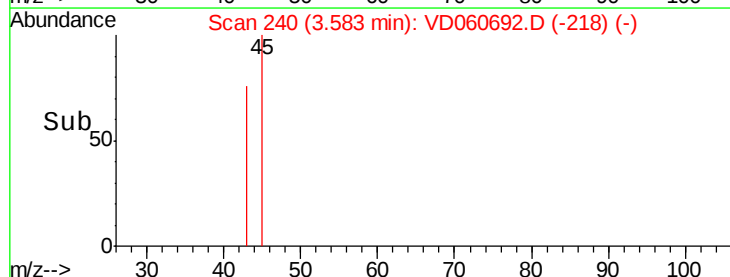
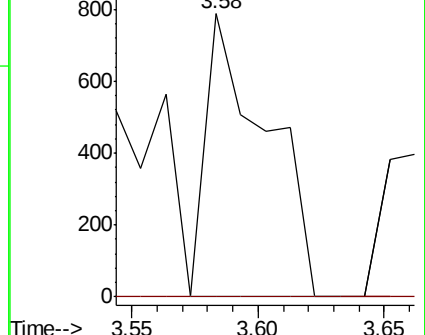
43 100

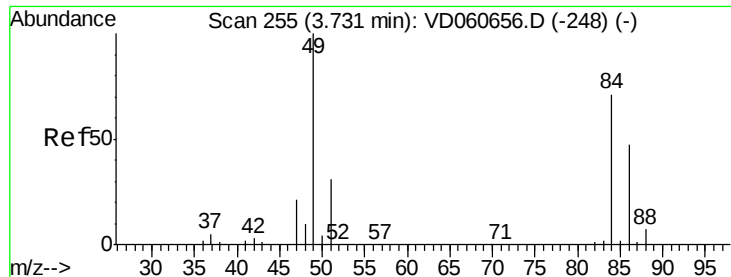
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

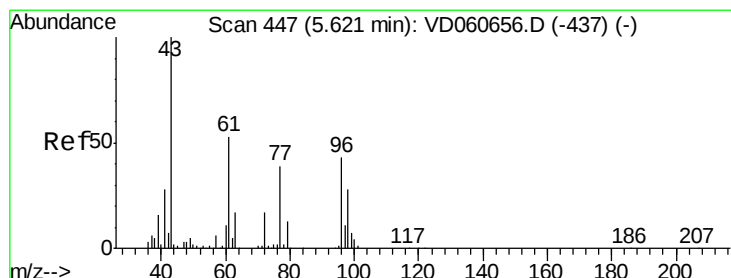
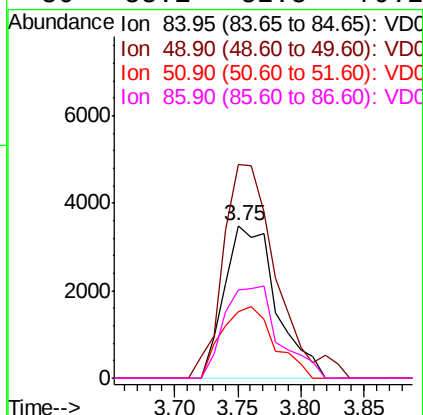
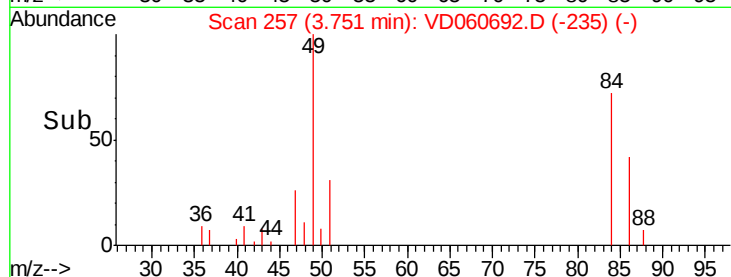
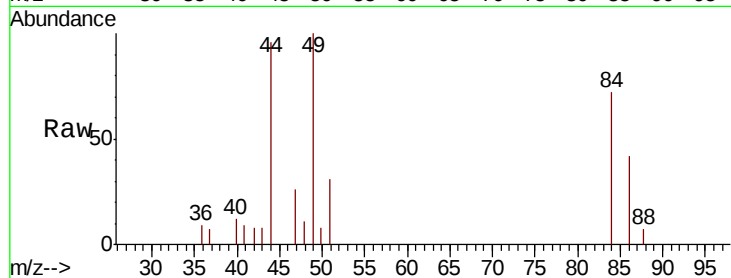




#20
Methvlene Chloride
Concen: 25.892 ug/l
RT: 3.75 min Scan# 257
Delta R.T. 0.02 min
Lab File: VD060692.D
Acq: 21 Dec 2018 19:07

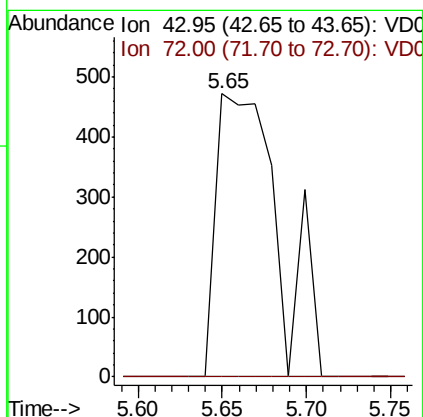
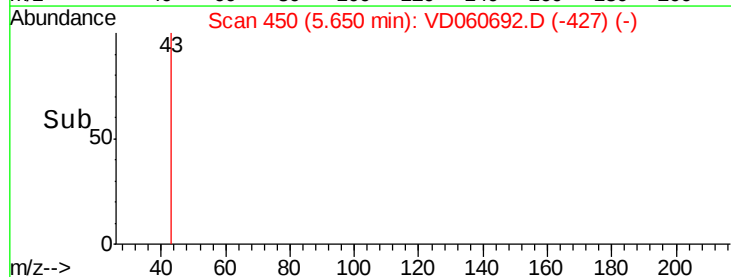
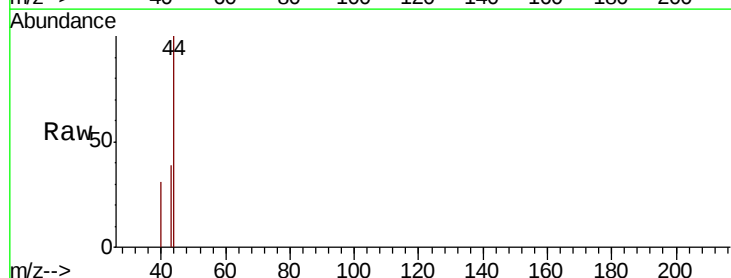
Instrument :
MSVOA_D
ClientSampleId :
HD-01-122018

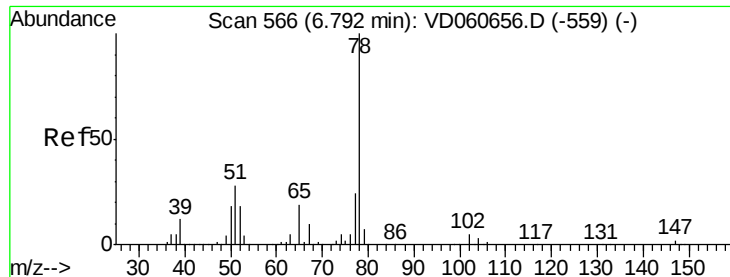
Tot Ion: 84 Resp: 9883
Ion Ratio Lower Upper
84 100
49 139.9 113.6 170.4
51 43.2 34.7 52.1
86 58.1 52.8 79.2



#25
2-Butanone
Concen: 17.176 ug/l
RT: 5.65 min Scan# 450
Delta R.T. 0.03 min
Lab File: VD060692.D
Acq: 21 Dec 2018 19:07

Tgt Ion: 43 Resp: 1208
Ion Ratio Lower Upper
43 100
72 0.0 13.7 20.5#

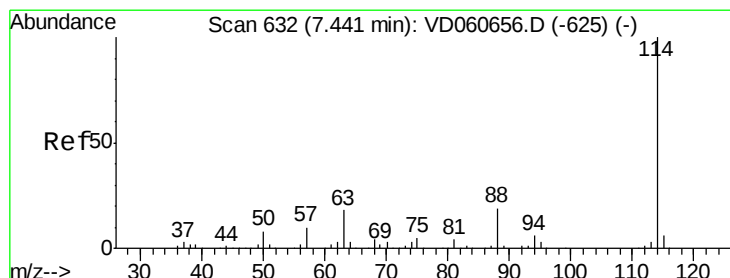
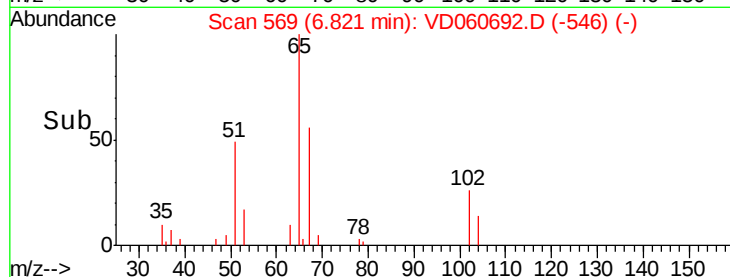
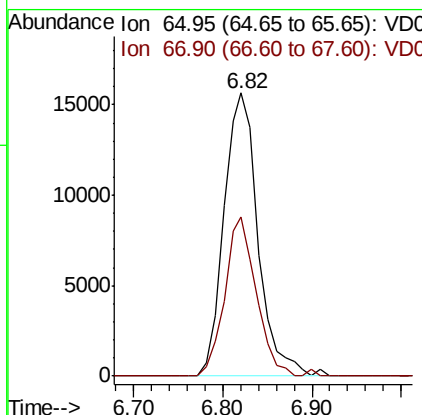
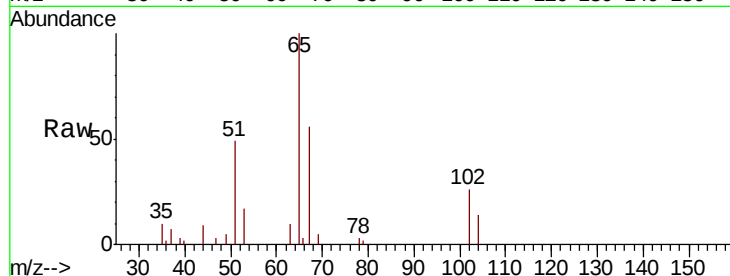




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.82 min Scan# 569
 Delta R.T. 0.03 min
 Lab File: VD060692.D
 Acq: 21 Dec 2018 19:07

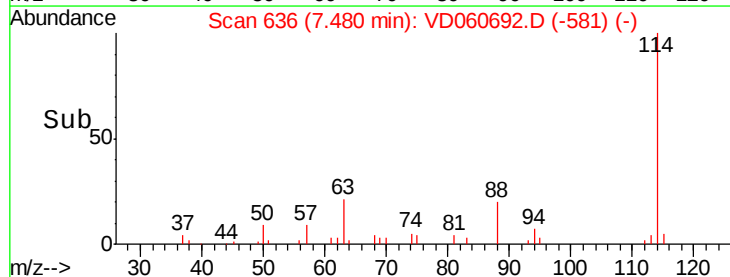
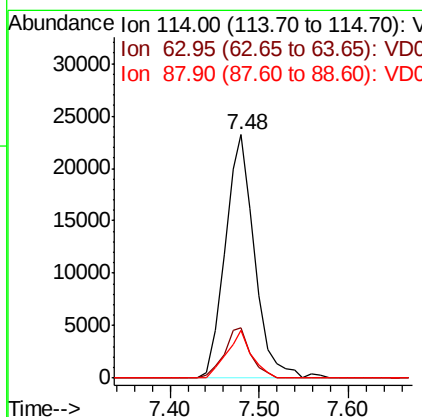
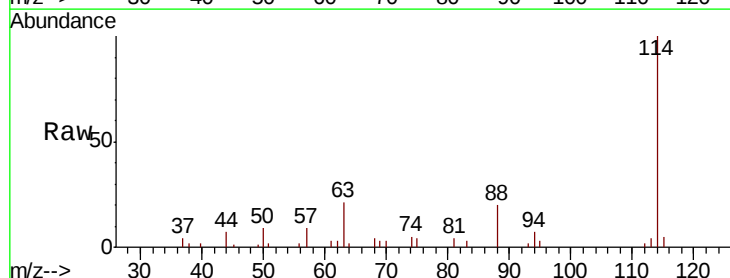
Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-122018

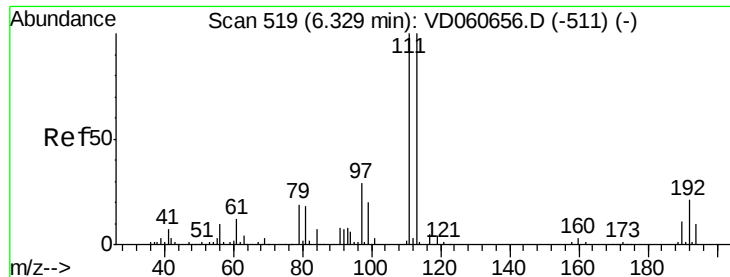
Tot Ion: 65 Resp: 41825
 Ion Ratio Lower Upper
 65 100
 67 56.2 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.48 min Scan# 636
 Delta R.T. 0.04 min
 Lab File: VD060692.D
 Acq: 21 Dec 2018 19:07

Tgt Ion: 114 Resp: 53544
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 36.2
 88 19.5 0.0 37.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.36 min Scan# 522

Delta R.T. 0.03 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

HD-01-122018

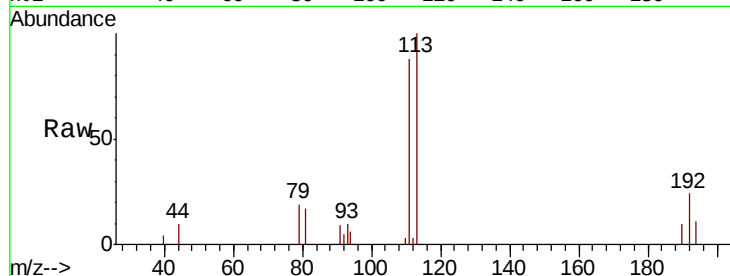
Tot Ion:113 Resp: 38749

Ion Ratio Lower Upper

113 100

111 87.9 80.0 120.0

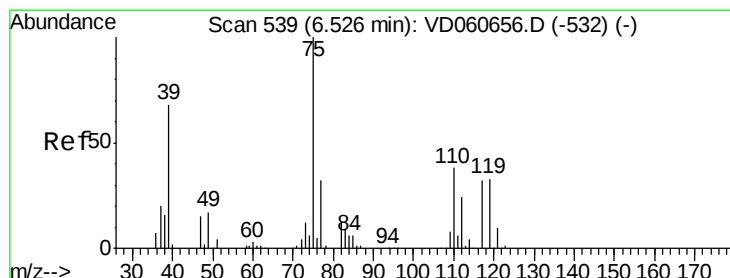
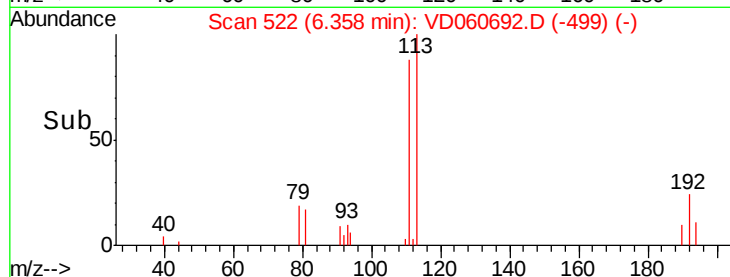
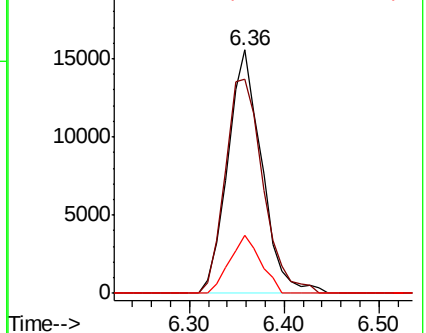
192 23.7 16.6 25.0



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 3.562 ug/l

RT: 6.44 min Scan# 530

Delta R.T. -0.09 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

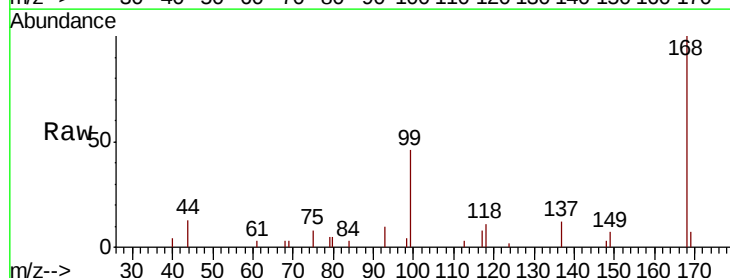
Tgt Ion: 75 Resp: 1964

Ion Ratio Lower Upper

75 100

110 0.0 18.9 56.7#

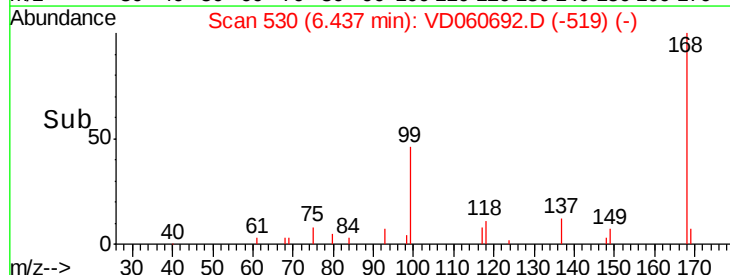
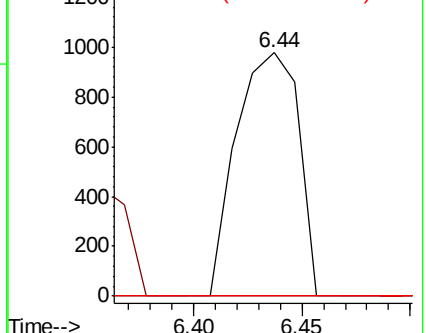
77 0.0 25.4 38.0#

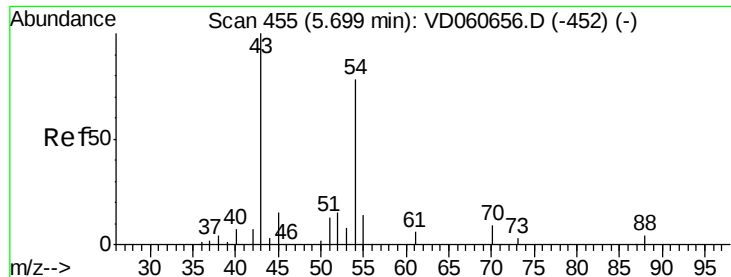


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

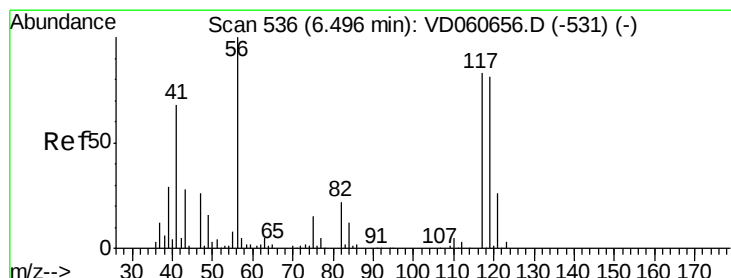
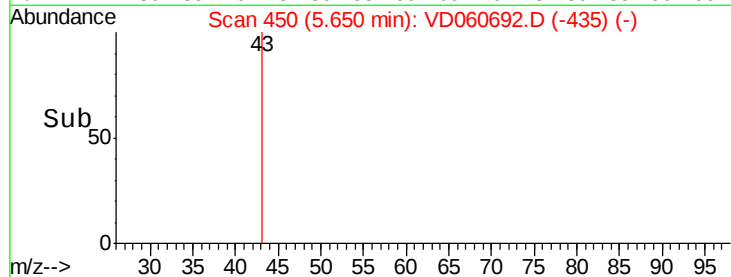
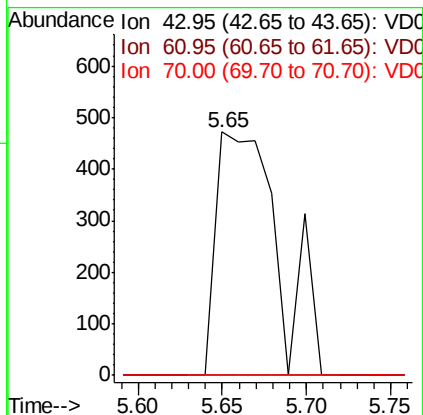
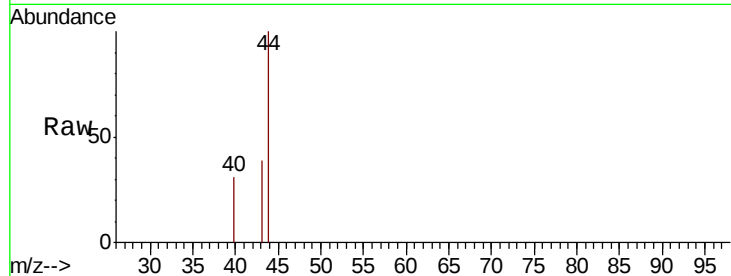




#37
Ethyl Acetate
Concen: 5.239 ug/l
RT: 5.65 min Scan# 450
Delta R.T. -0.05 min
Lab File: VD060692.D
Acq: 21 Dec 2018 19:07

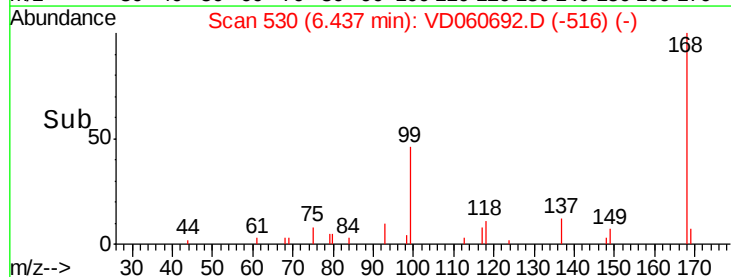
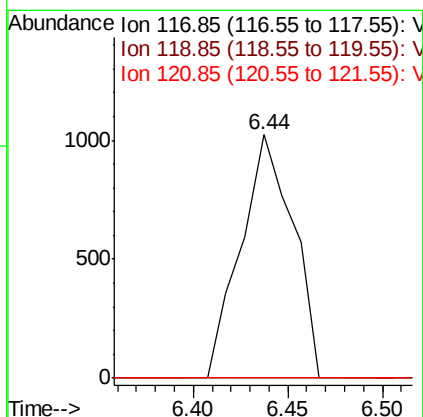
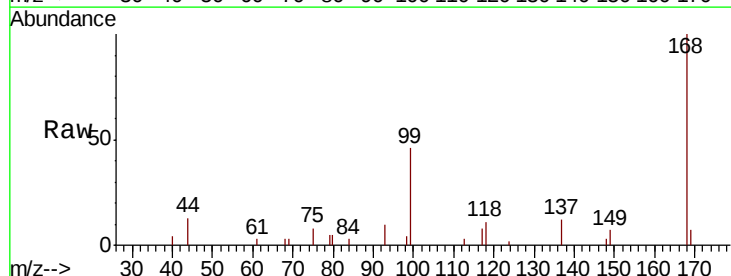
Instrument :
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HD-01-122018

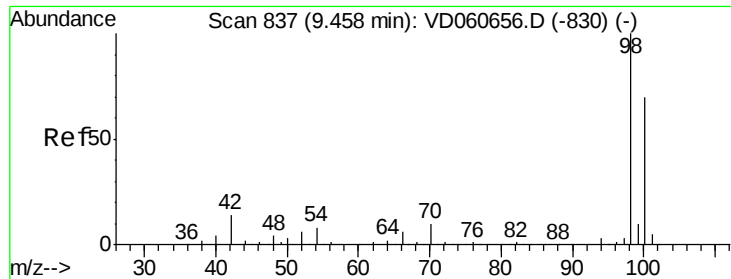
Tot Ion: 43 Resp: 1208
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 5.8 8.6#



#38
Carbon Tetrachloride
Concen: 4.025 ug/l
RT: 6.44 min Scan# 530
Delta R.T. -0.06 min
Lab File: VD060692.D
Acq: 21 Dec 2018 19:07

Tgt Ion: 117 Resp: 1958
Ion Ratio Lower Upper
117 100
119 0.0 77.0 115.4#
121 0.0 24.7 37.1#

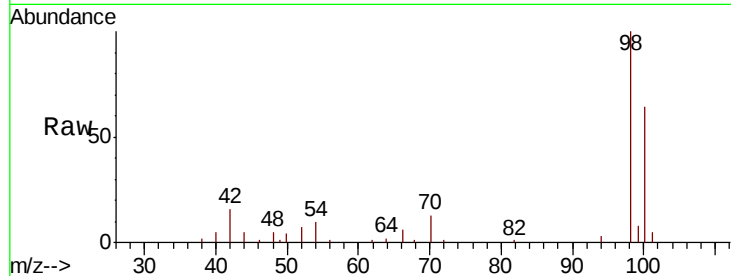




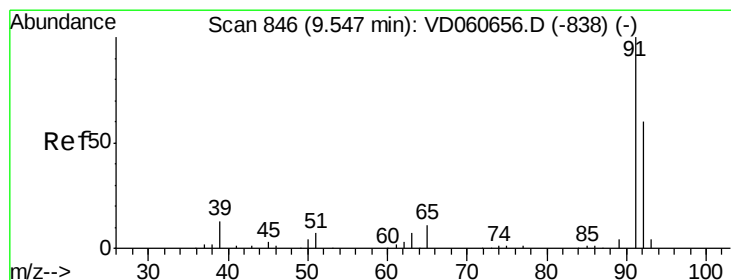
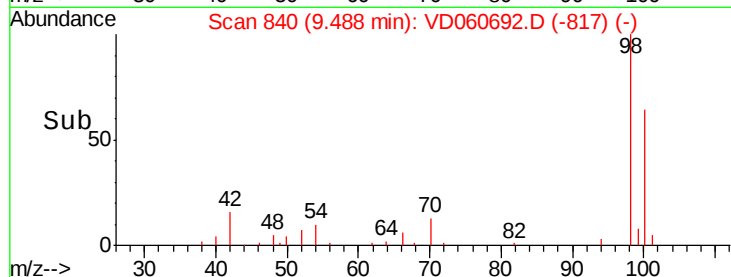
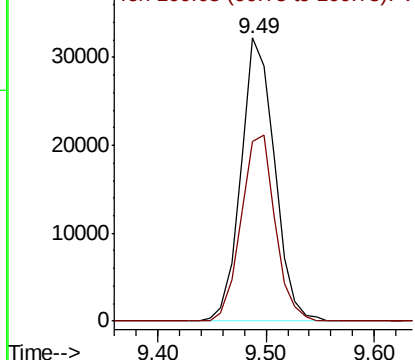
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.49 min Scan# 840
Delta R.T. 0.03 min
Lab File: VD060692.D
Acq: 21 Dec 2018 19:07

Instrument :
MSVOA_D
ClientSampleId :
HD-01-122018

Tot Ion: 98 Resp: 69455
Ion Ratio Lower Upper
98 100
100 63.7 55.8 83.8

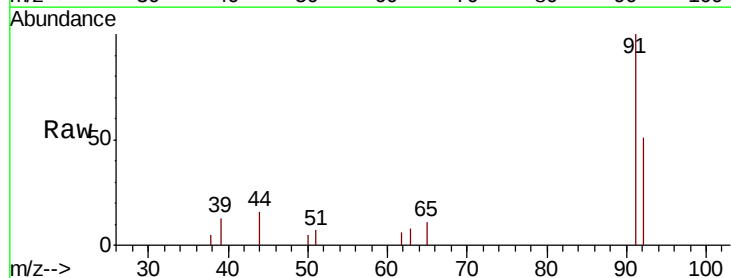


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

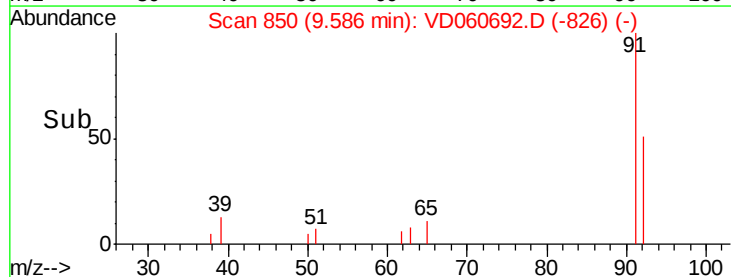
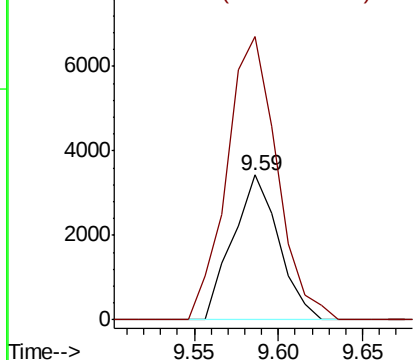


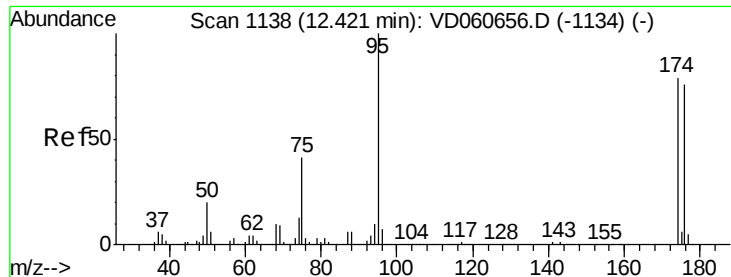
#52
Toluene
Concen: 7.234 ug/l
RT: 9.59 min Scan# 850
Delta R.T. 0.04 min
Lab File: VD060692.D
Acq: 21 Dec 2018 19:07

Tgt Ion: 92 Resp: 6459
Ion Ratio Lower Upper
92 100
91 195.7 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.45 min Scan# 1141

Delta R.T. 0.03 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

HD-01-122018

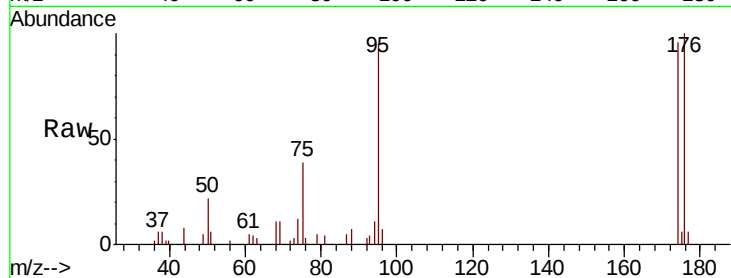
Tot Ion: 95 Resp: 23733

Ion Ratio Lower Upper

95 100

174 101.0 0.0 158.2

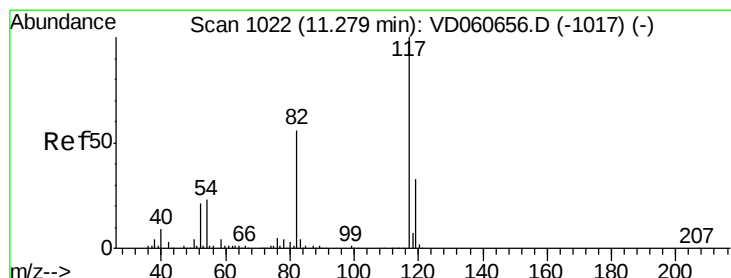
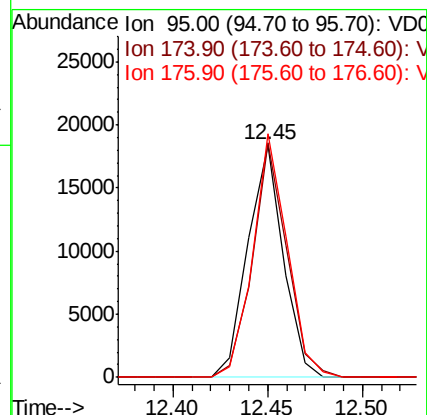
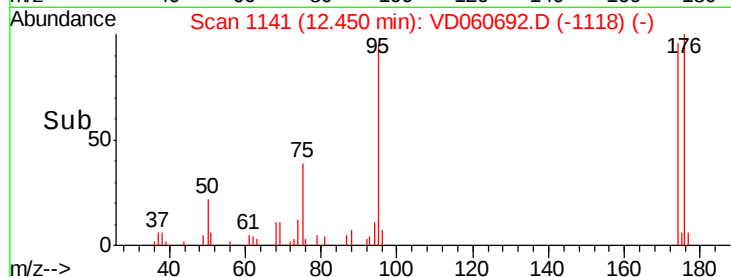
176 104.9 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.31 min Scan# 1025

Delta R.T. 0.03 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

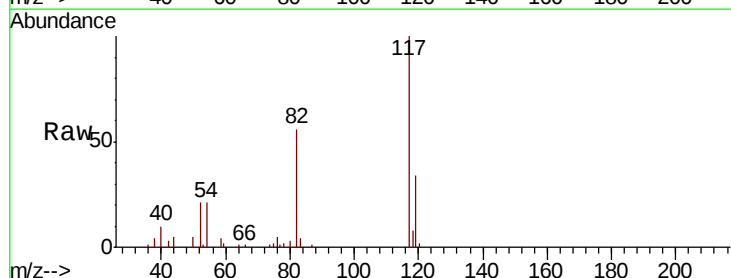
Tgt Ion: 117 Resp: 49443

Ion Ratio Lower Upper

117 100

82 56.1 44.5 66.7

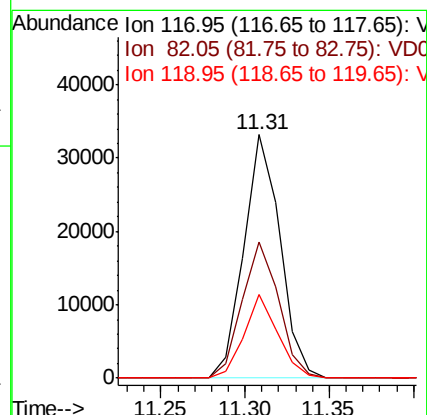
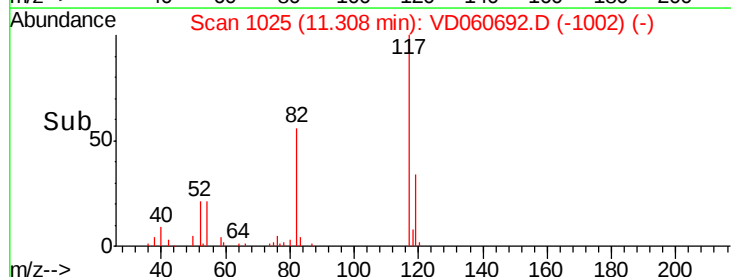
119 34.1 26.3 39.5

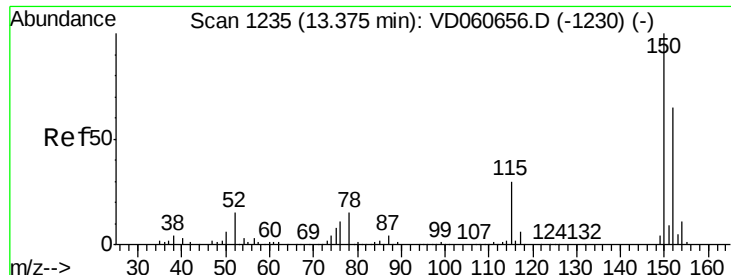


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.39 min Scan# 1237

Delta R.T. 0.02 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

HD-01-122018

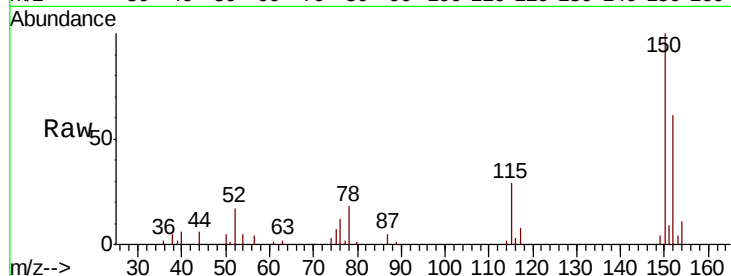
Tot Ion:152 Resp: 18658

Ion Ratio Lower Upper

152 100

115 47.0 24.1 72.3

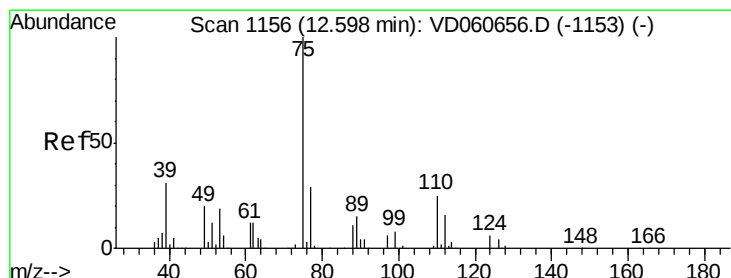
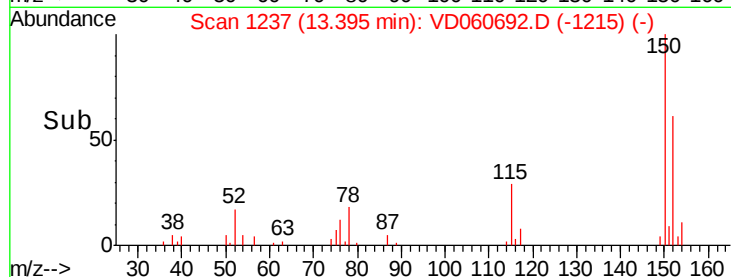
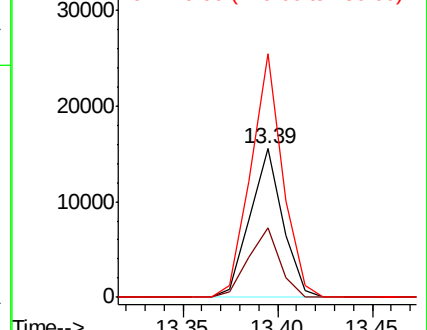
150 164.2 0.0 315.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 45.697 ug/l

RT: 12.45 min Scan# 1141

Delta R.T. -0.15 min

Lab File: VD060692.D

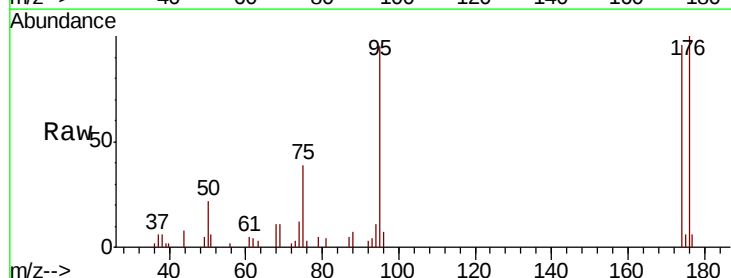
Acq: 21 Dec 2018 19:07

Tgt Ion: 75 Resp: 9707

Ion Ratio Lower Upper

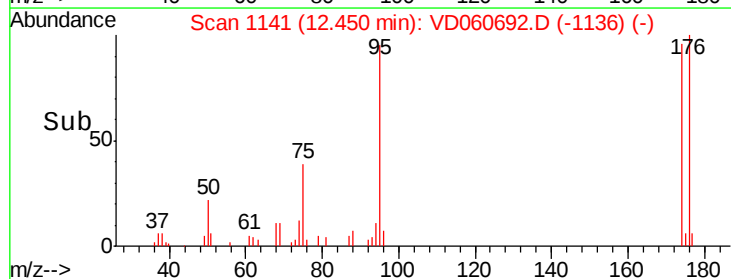
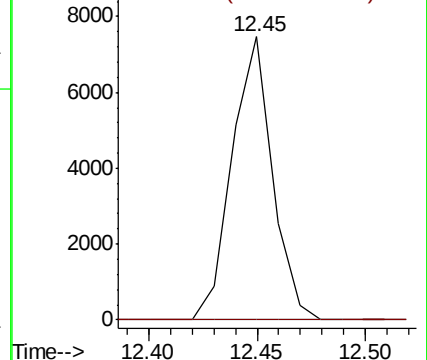
75 100

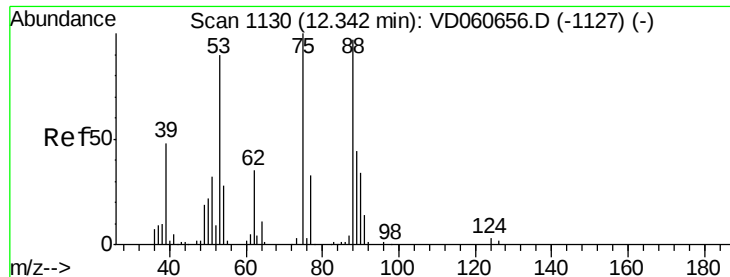
77 0.0 16.7 50.0#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 165.394 ug/l

RT: 12.45 min Scan# 1141

Delta R.T. 0.11 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

HD-01-122018

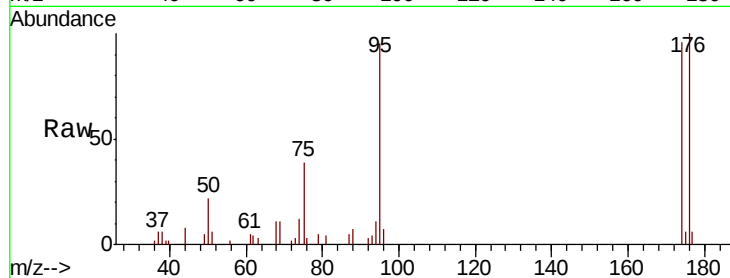
Tot Ion: 75 Resp: 9708

Ion Ratio Lower Upper

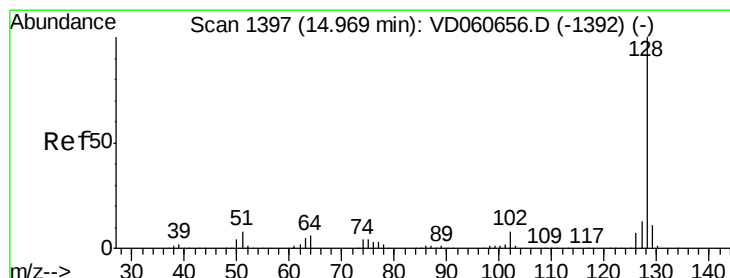
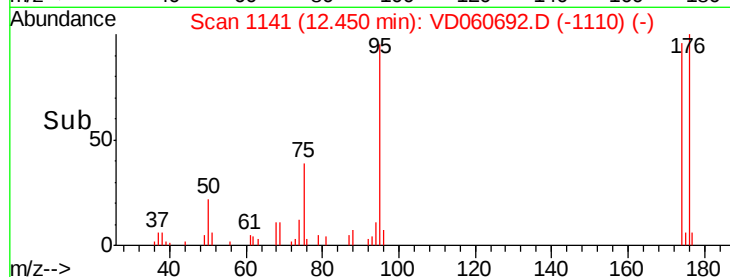
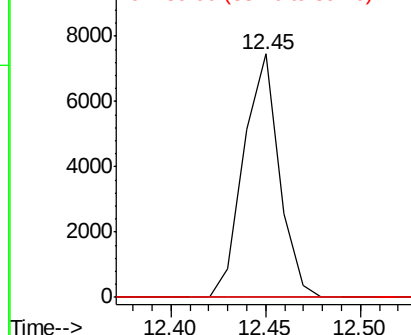
75 100

53 0.0 72.1 108.1#

89 0.0 35.1 52.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#95

Naphthalene

Concen: 2.866 ug/l

RT: 14.99 min Scan# 1399

Delta R.T. 0.02 min

Lab File: VD060692.D

Acq: 21 Dec 2018 19:07

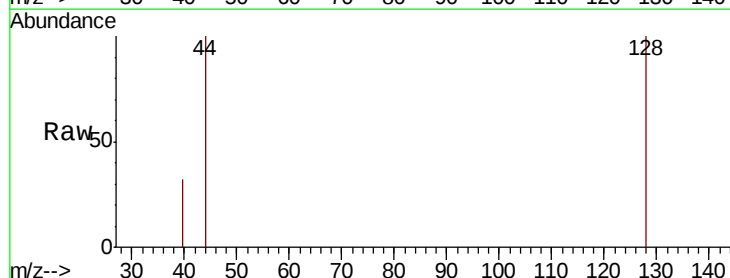
Tgt Ion: 128 Resp: 1400

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 0.0 8.6 13.0#



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

