

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062918\
 Data File : VD059496.D
 Acq On : 29 Jun 2018 17:18
 Operator : VA/AP
 Sample : J3248-11RE
 Misc : 7.58g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 30 00:26:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	148307	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.68	114	211738	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	197500	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	101347	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.01	65	151238	99.72	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	199.44%	
35) Dibromofluoromethane	5.53	113	119458	69.26	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	138.52%	
50) Toluene-d8	8.70	98	232911	57.77	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	115.54%	
62) 4-Bromofluorobenzene	11.92	95	108697	64.81	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	129.62%	

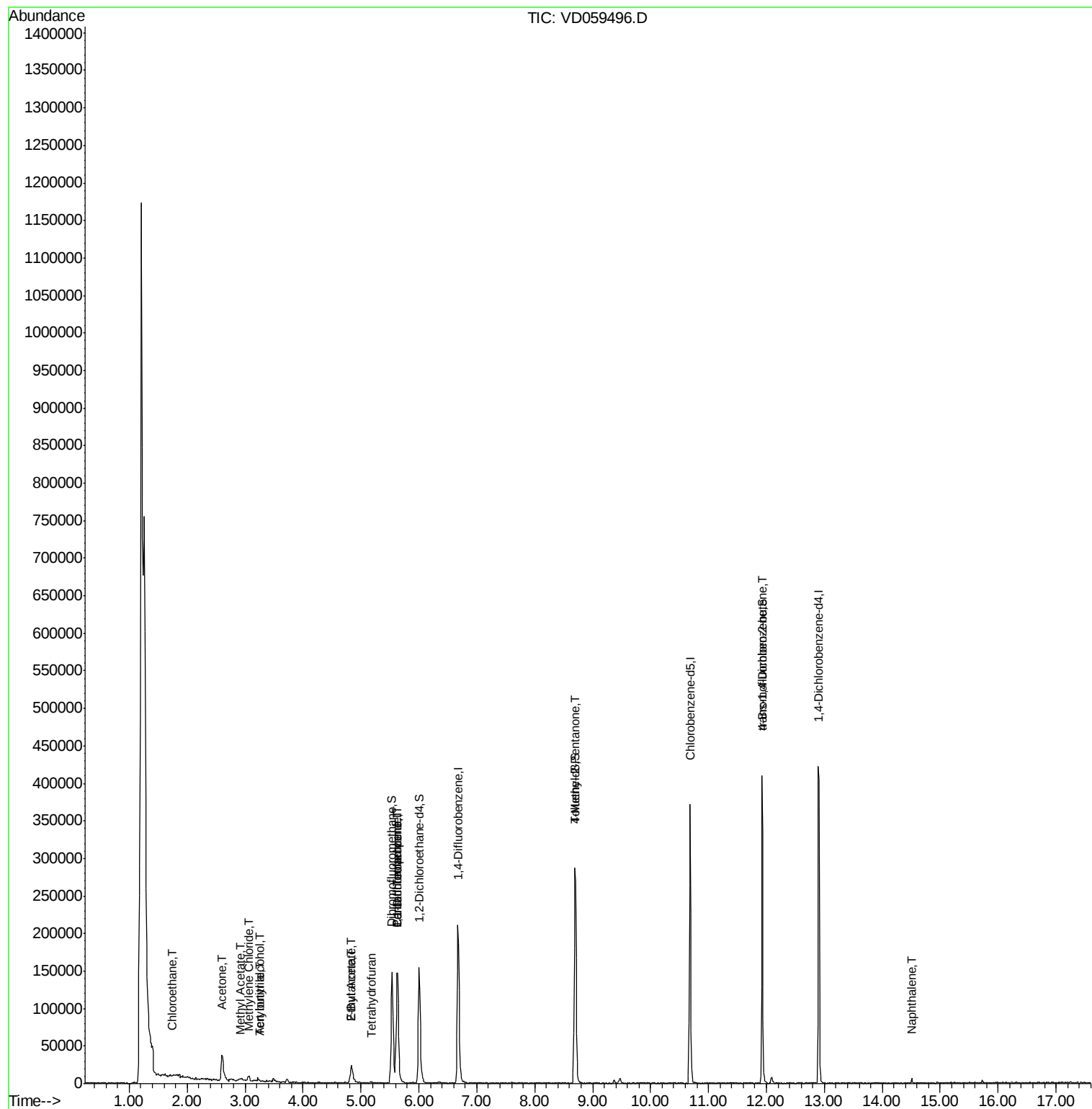
Target Compounds

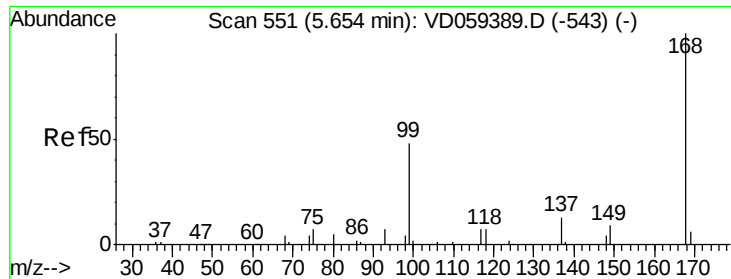
					Qvalue
5) Bromomethane	1.78	94	273	Below Cal	# 4
6) Chloroethane	1.75	64	180	2.384	ug/l # 41
11) Tert butyl alcohol	3.26	59	181	3.450	ug/l # 72
15) Acrylonitrile	3.24	53	185	1.149	ug/l # 16
16) Acetone	2.60	43	69101	361.002	ug/l 96
18) Methyl Acetate	2.92	43	5829	11.471	ug/l # 66
20) Methylene Chloride	3.05	84	3194	3.707	ug/l # 64
25) 2-Butanone	4.83	43	3611	9.006	ug/l # 57
29) Tetrahydrofuran	5.17	42	1757	8.011	ug/l # 47
31) Cyclohexane	5.62	56	2951	Below Cal	# 1
36) 1,1-Dichloropropene	5.63	75	11999	6.247	ug/l # 51
37) Ethyl Acetate	4.83	43	3611	3.087	ug/l # 55
38) Carbon Tetrachloride	5.62	117	11874	5.996	ug/l # 12
51) 4-Methyl-2-Pentanone	8.70	43	1791	1.830	ug/l # 16
81) trans-1,4-Dichloro-2-buten	11.92	75	54508	171.551	ug/l # 1
95) Naphthalene	14.51	128	4289	1.326	ug/l # 83

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.02 min

Lab File: VD059496.D

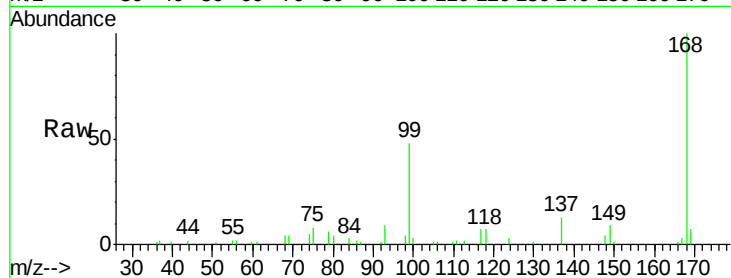
Acq: 29 Jun 2018 17:18

Tot Ion: 168 Resp: 148307

Ion Ratio Lower Upper

168 100

99 48.2 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.63

60000

50000

40000

30000

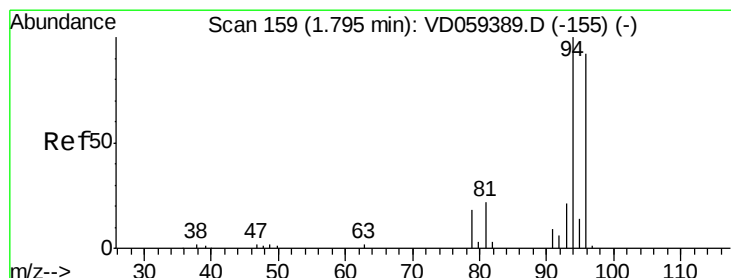
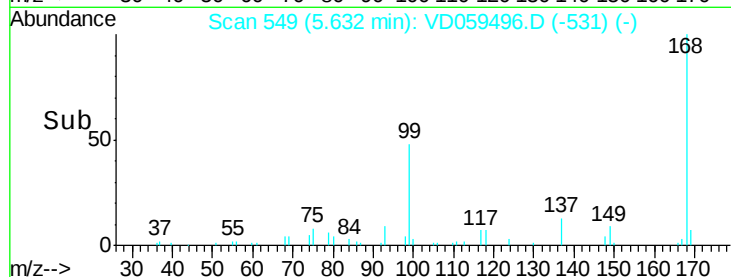
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.78 min Scan# 158

Delta R.T. -0.01 min

Lab File: VD059496.D

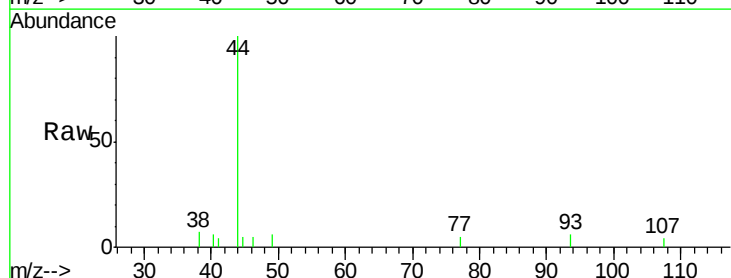
Acq: 29 Jun 2018 17:18

Tgt Ion: 94 Resp: 273

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.78

500

400

300

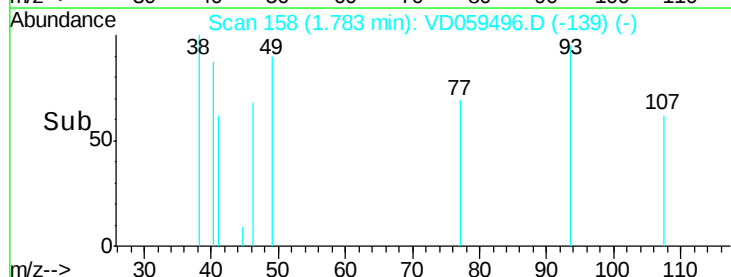
200

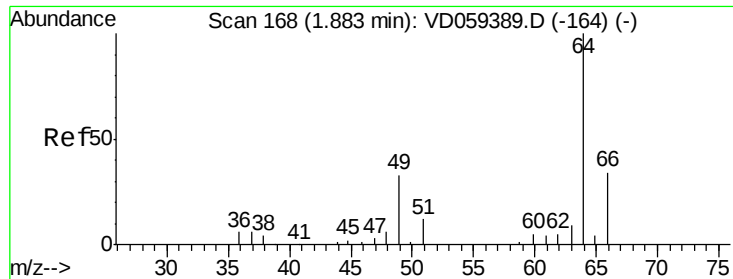
100

0

Time-->

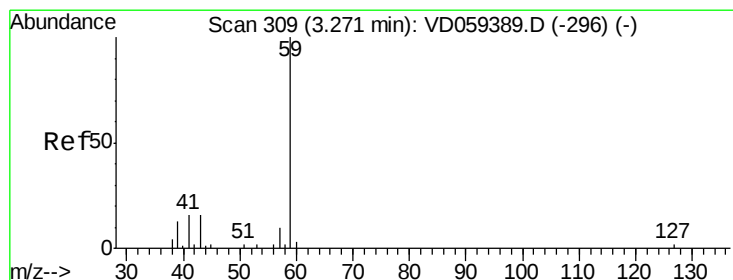
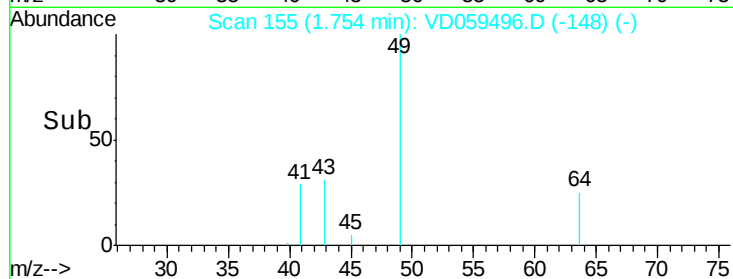
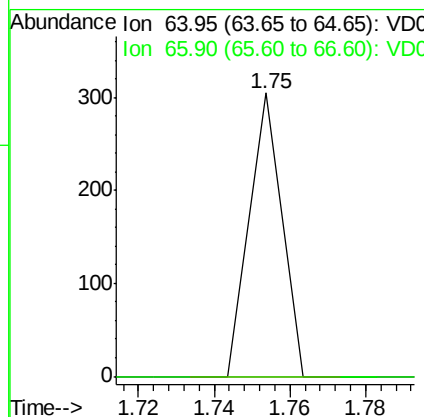
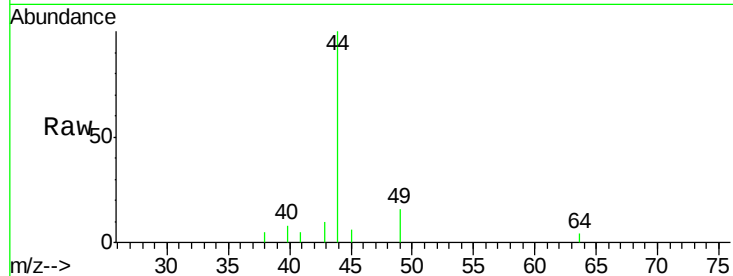
1.76 1.78 1.80





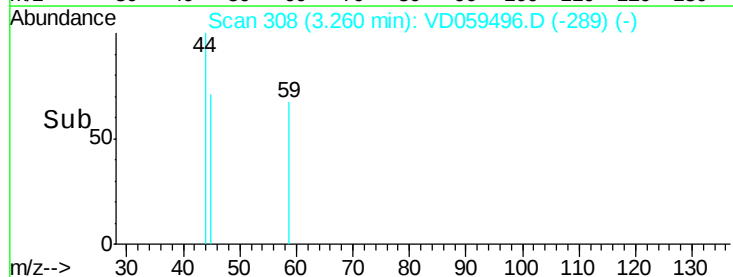
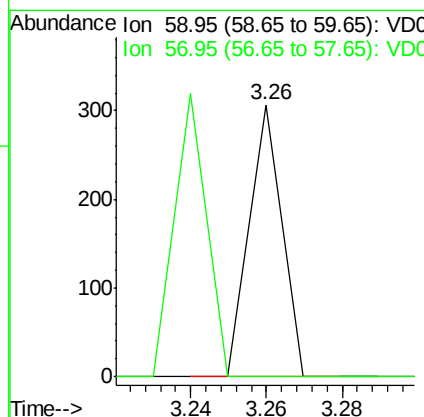
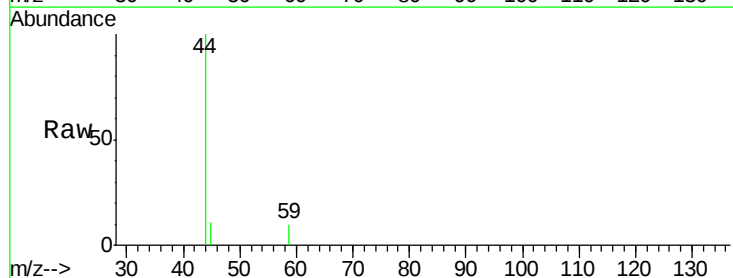
#6
 Chloroethane
 Concen: 2.384 ug/l
 RT: 1.75 min Scan# 155
 Delta R.T. -0.13 min
 Lab File: VD059496.D
 Acq: 29 Jun 2018 17:18

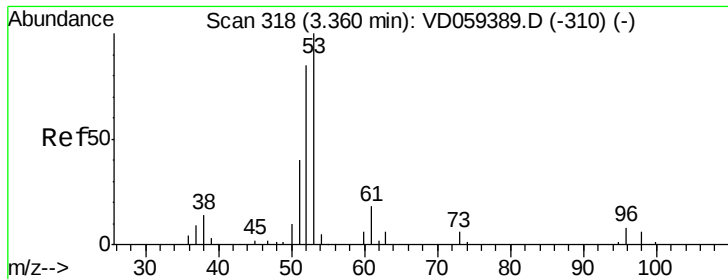
Tot Ion: 64 Resp: 180
 Ion Ratio Lower Upper
 64 100
 66 0.0 27.1 40.7#



#11
 Tert butyl alcohol
 Concen: 3.450 ug/l
 RT: 3.26 min Scan# 308
 Delta R.T. -0.01 min
 Lab File: VD059496.D
 Acq: 29 Jun 2018 17:18

Tgt Ion: 59 Resp: 181
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#





#15

Acrylonitrile

Concen: 1.149 ug/l

RT: 3.24 min Scan# 306

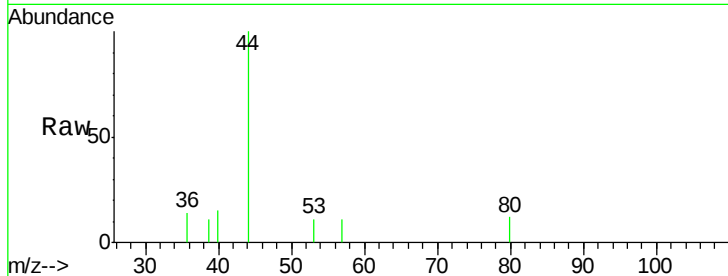
Delta R.T. -0.12 min

Lab File: VD059496.D

Acq: 29 Jun 2018 17:18

Tot Ion: 53 Resp: 185

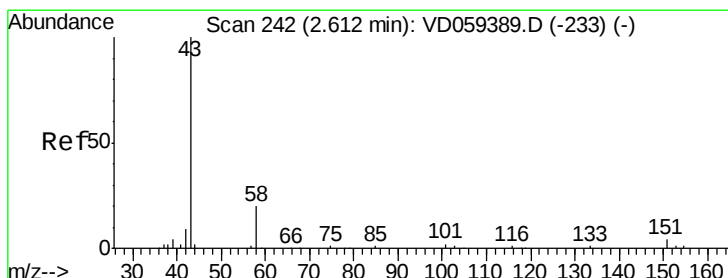
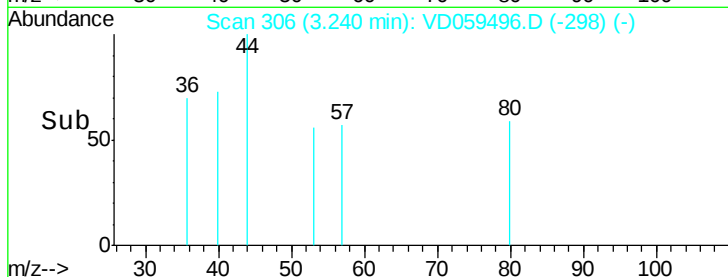
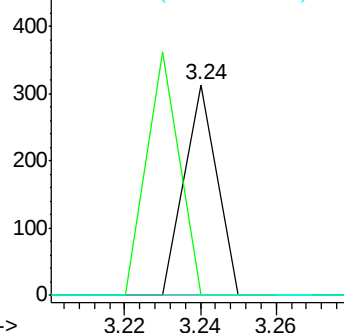
Ion	Ratio	Lower	Upper
53	100		
52	0.0	67.9	101.9#
51	0.0	32.2	48.4#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 361.002 ug/l

RT: 2.60 min Scan# 241

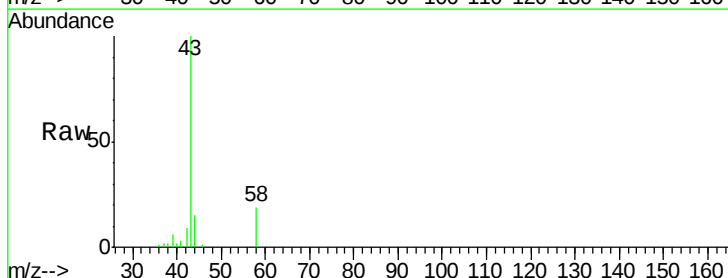
Delta R.T. -0.01 min

Lab File: VD059496.D

Acq: 29 Jun 2018 17:18

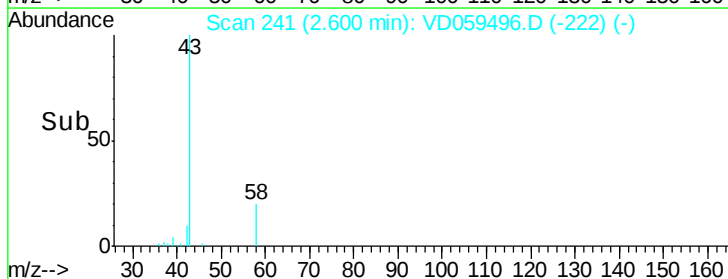
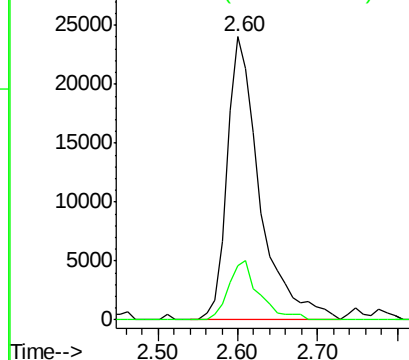
Tgt Ion: 43 Resp: 69101

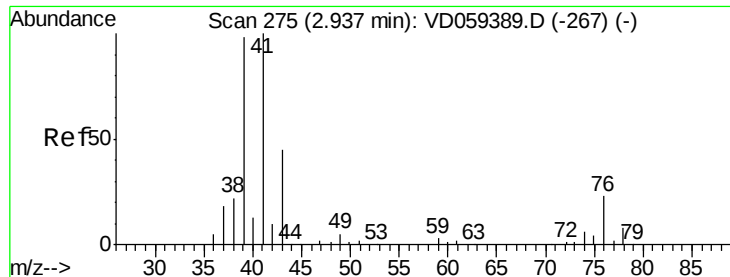
Ion	Ratio	Lower	Upper
43	100		
58	19.2	16.8	25.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

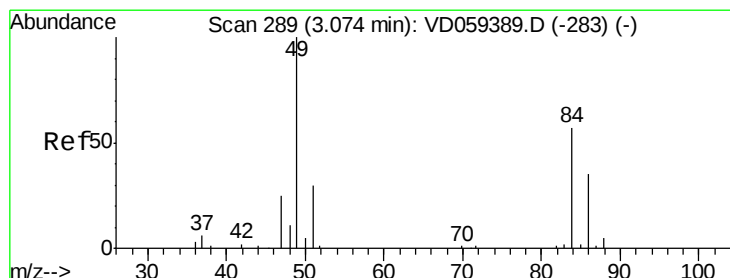
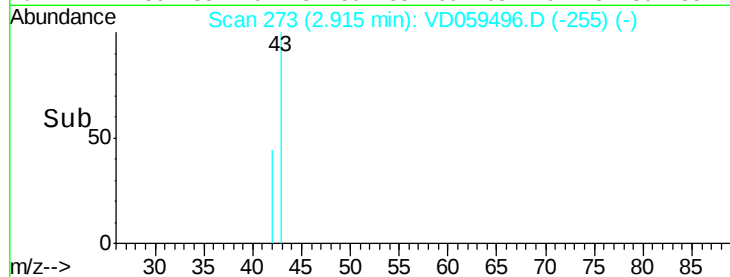
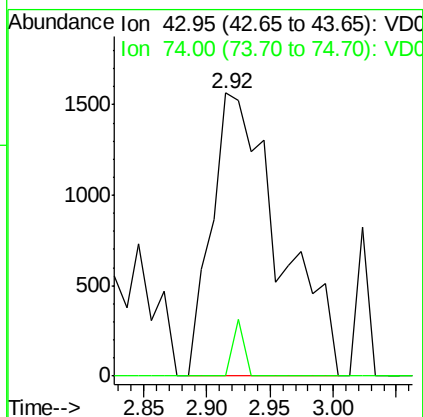
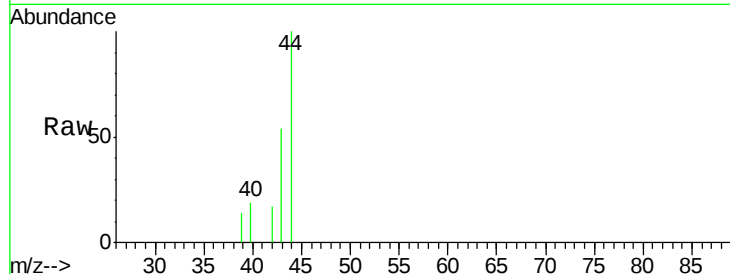
Ion 57.95 (57.65 to 58.65): VDC





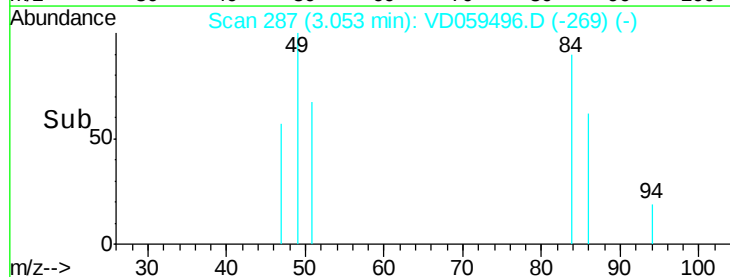
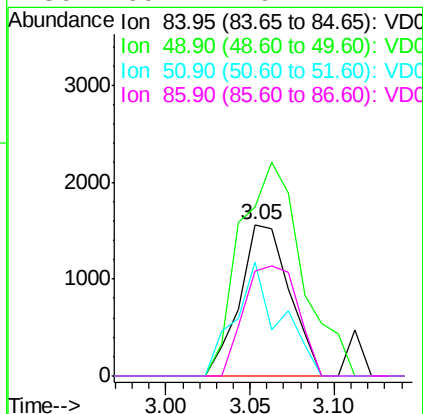
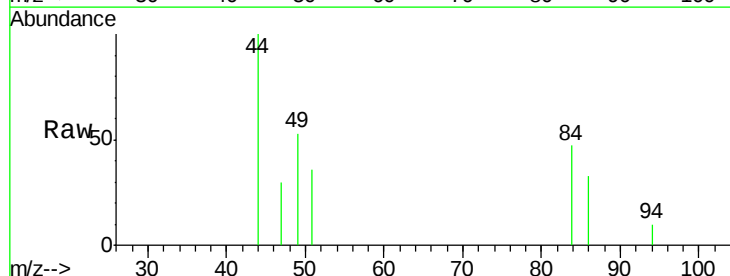
#18
Methyl Acetate
Concen: 11.471 ug/l
RT: 2.92 min Scan# 273
Delta R.T. -0.02 min
Lab File: VD059496.D
Acq: 29 Jun 2018 17:18

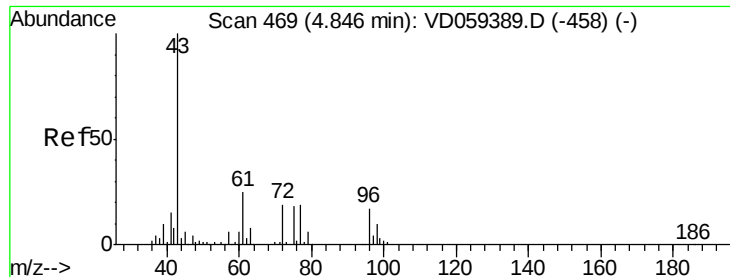
Tot Ion: 43 Resp: 5829
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.4#



#20
Methylene Chloride
Concen: 3.707 ug/l
RT: 3.05 min Scan# 287
Delta R.T. -0.02 min
Lab File: VD059496.D
Acq: 29 Jun 2018 17:18

Tgt Ion: 84 Resp: 3194
Ion Ratio Lower Upper
84 100
49 111.4 140.3 210.5#
51 75.1 41.6 62.4#
86 69.1 49.4 74.2





#25

2-Butanone

Concen: 9.006 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD059496.D

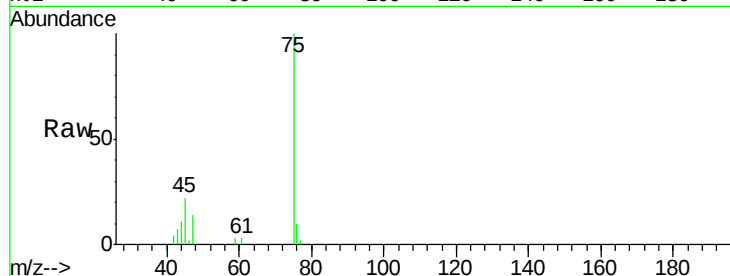
Acq: 29 Jun 2018 17:18

Tot Ion: 43 Resp: 3611

Ion Ratio Lower Upper

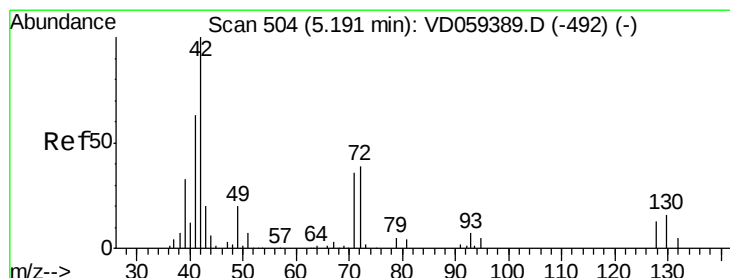
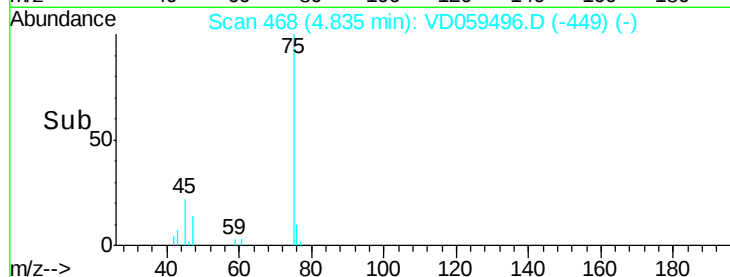
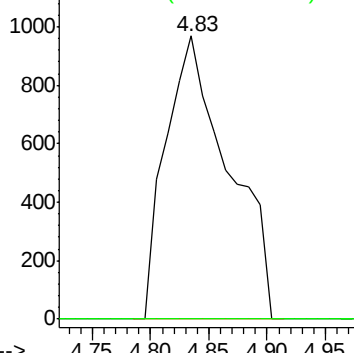
43 100

72 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 8.011 ug/l

RT: 5.17 min Scan# 502

Delta R.T. -0.02 min

Lab File: VD059496.D

Acq: 29 Jun 2018 17:18

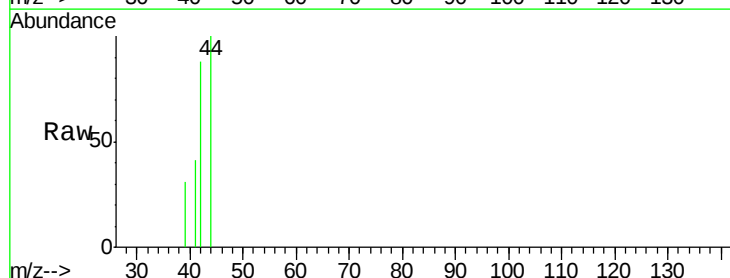
Tgt Ion: 42 Resp: 1757

Ion Ratio Lower Upper

42 100

72 12.7 31.4 47.2#

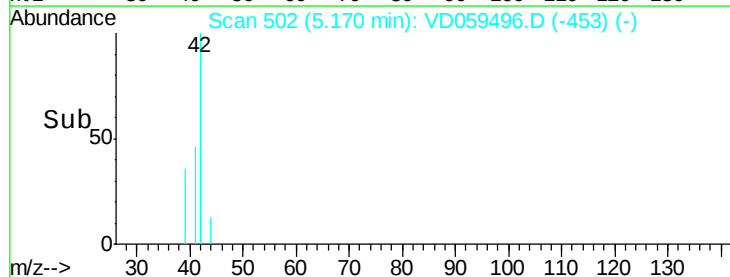
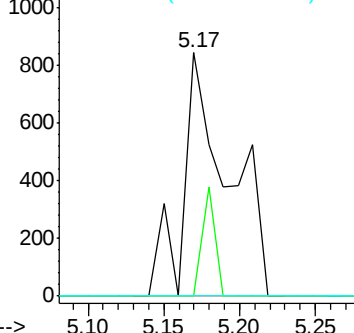
71 0.0 29.7 44.5#

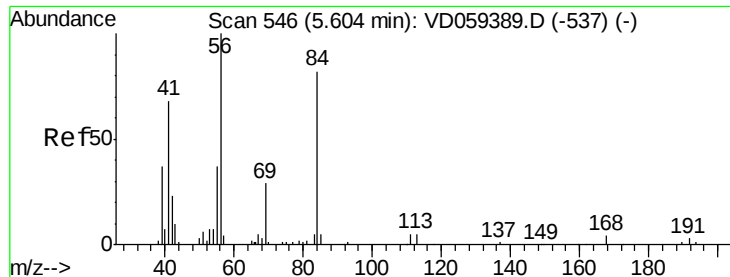


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

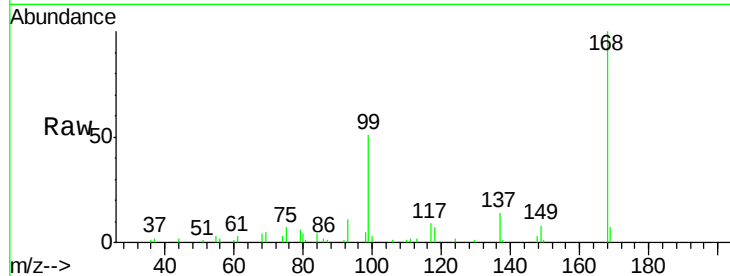
Ion 71.00 (70.70 to 71.70): VDC



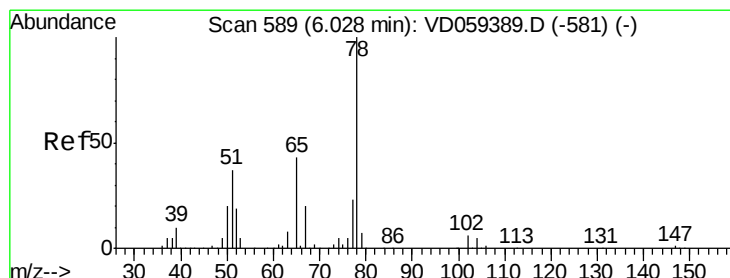
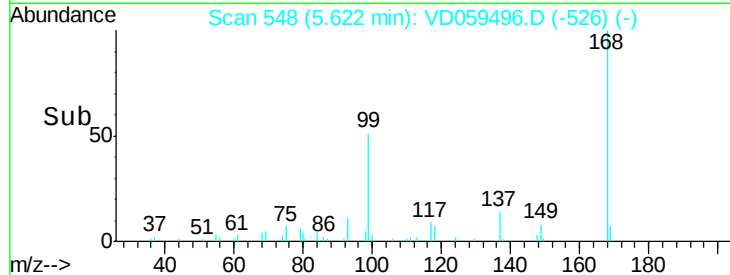
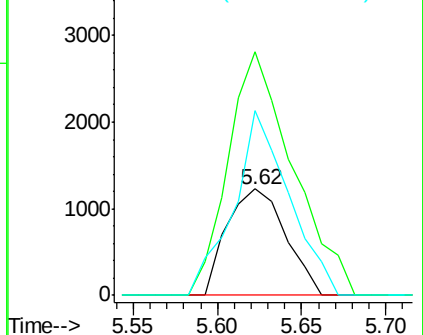


#31
Cyclohexane
Concen: Below Cal
RT: 5.62 min Scan# 548
Delta R.T. 0.02 min
Lab File: VD059496.D
Acq: 29 Jun 2018 17:18

Tot Ion: 56 Resp: 2951
Ion Ratio Lower Upper
56 100
69 229.5 22.9 34.3#
84 174.6 67.3 100.9#

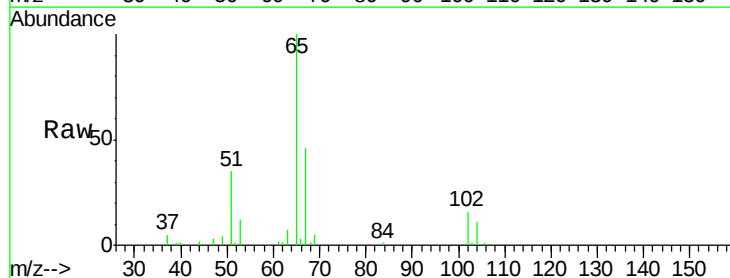


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

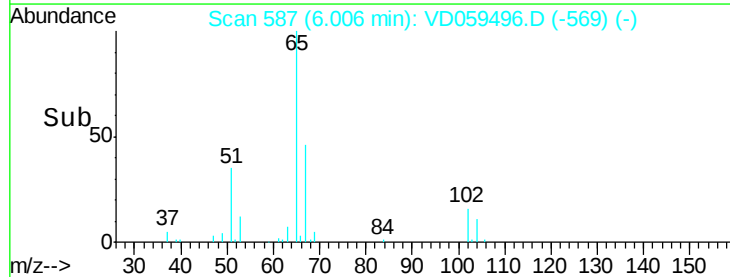
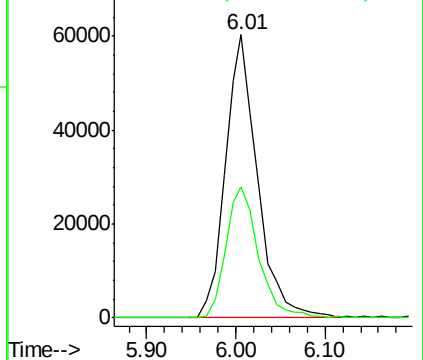


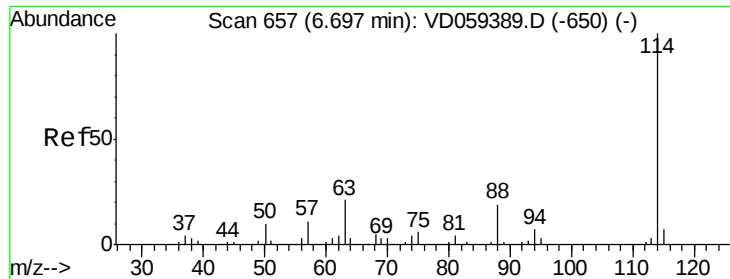
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.01 min Scan# 587
Delta R.T. -0.02 min
Lab File: VD059496.D
Acq: 29 Jun 2018 17:18

Tgt Ion: 65 Resp: 151238
Ion Ratio Lower Upper
65 100
67 46.1 0.0 93.8



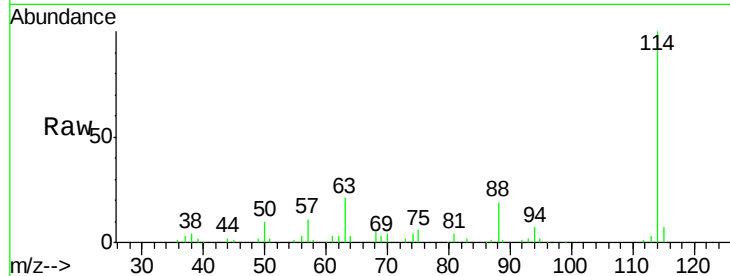
Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC



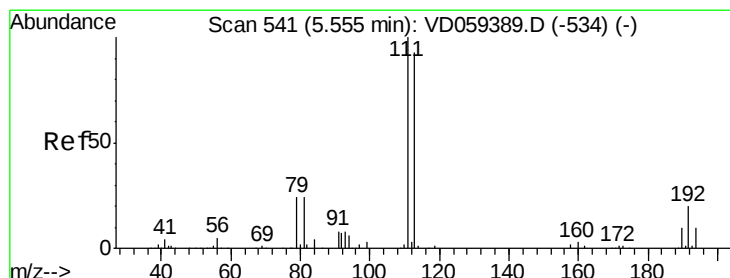
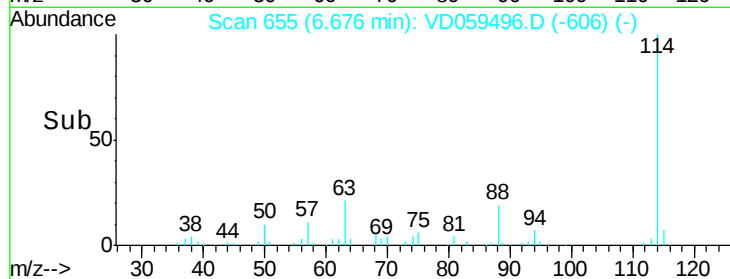
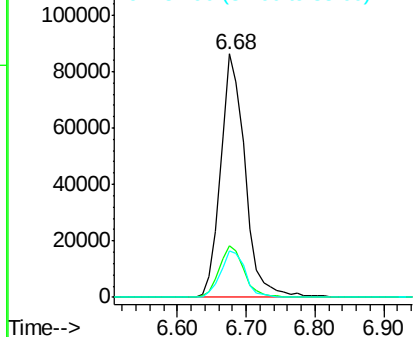


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 655
 Delta R.T. -0.02 min
 Lab File: VD059496.D
 Acq: 29 Jun 2018 17:18

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	19.0	0.0	38.0

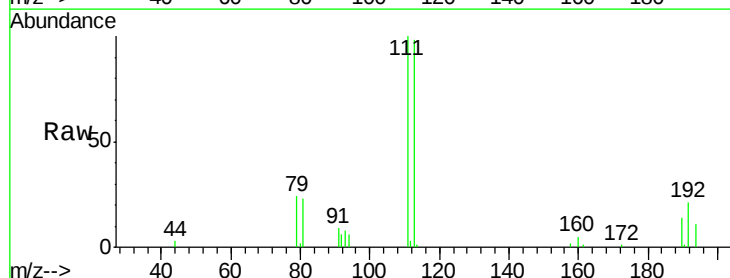


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

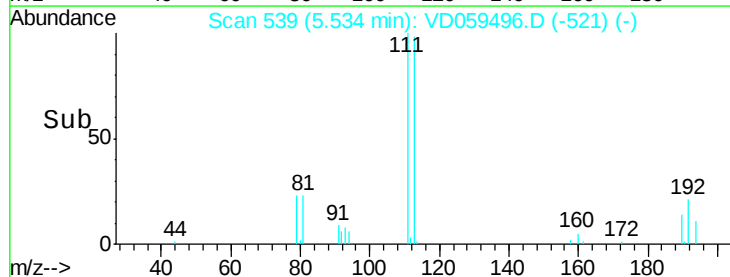
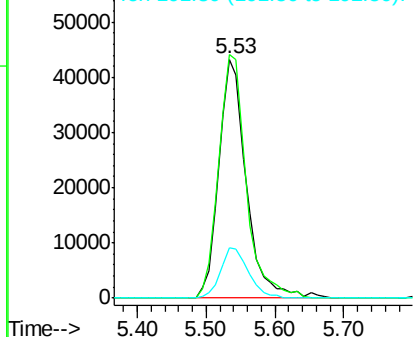


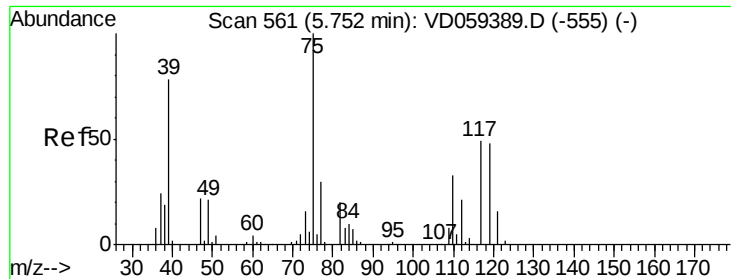
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.53 min Scan# 539
 Delta R.T. -0.02 min
 Lab File: VD059496.D
 Acq: 29 Jun 2018 17:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	85.7	128.5
192	20.9	16.9	25.3



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: 6.247 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.12 min

Lab File: VD059496.D

Acq: 29 Jun 2018 17:18

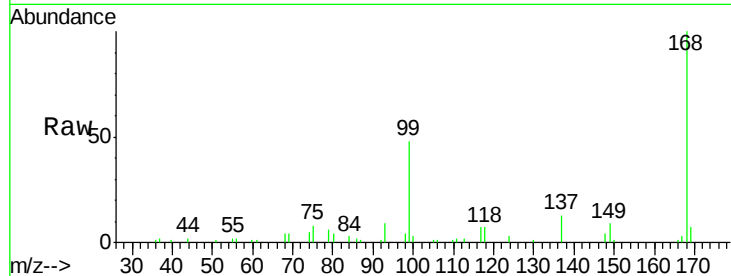
Tot Ion: 75 Resp: 11999

Ion Ratio Lower Upper

75 100

110 8.0 16.1 48.2#

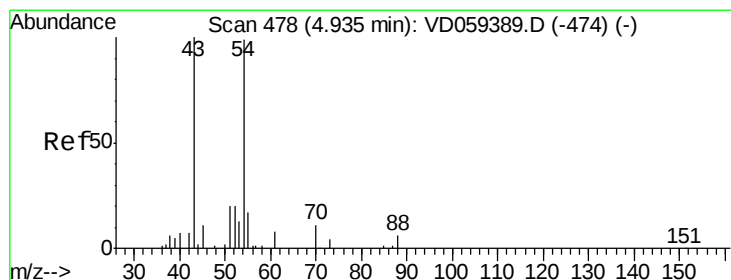
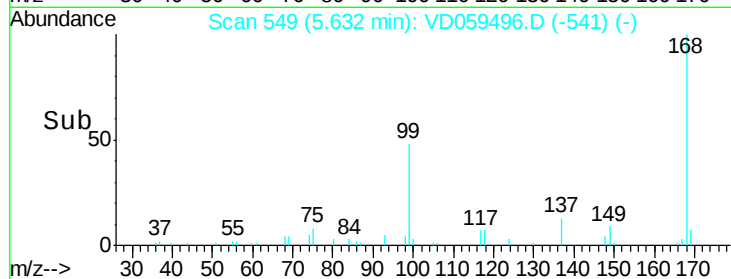
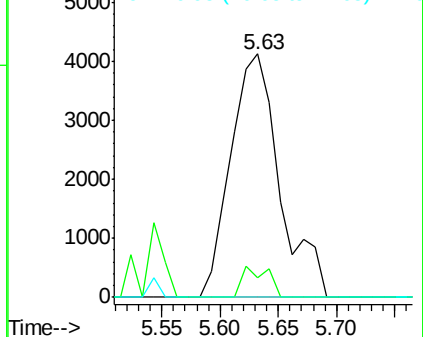
77 0.0 23.4 35.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 3.087 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.10 min

Lab File: VD059496.D

Acq: 29 Jun 2018 17:18

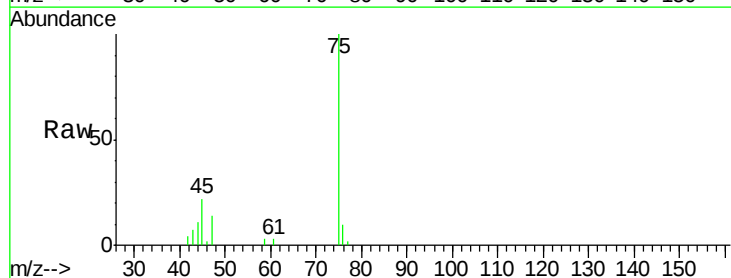
Tgt Ion: 43 Resp: 3611

Ion Ratio Lower Upper

43 100

61 38.6 11.8 17.8#

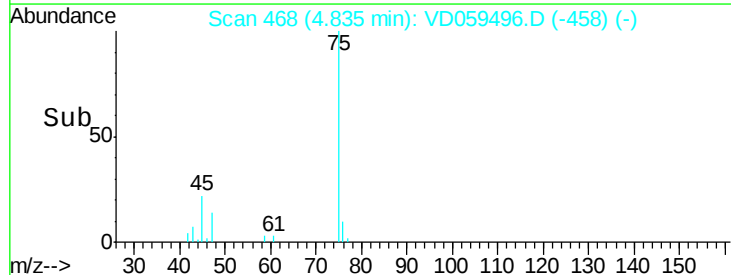
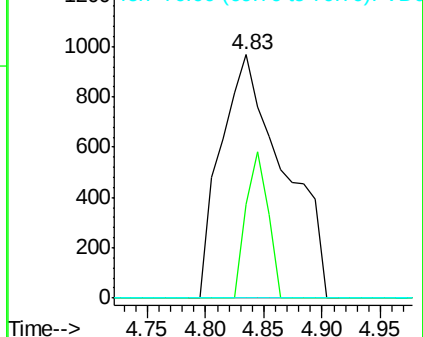
70 0.0 6.1 9.1#

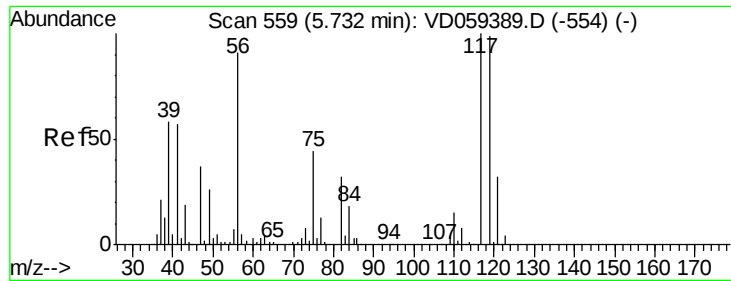


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.996 ug/l

RT: 5.62 min Scan# 548

Delta R.T. -0.11 min

Lab File: VD059496.D

Acq: 29 Jun 2018 17:18

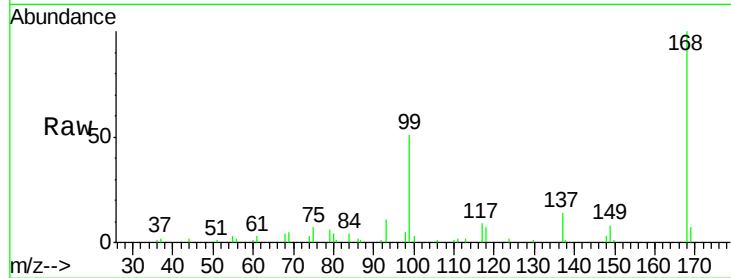
Tot Ion:117 Resp: 11874

Ion Ratio Lower Upper

117 100

119 0.0 76.6 115.0#

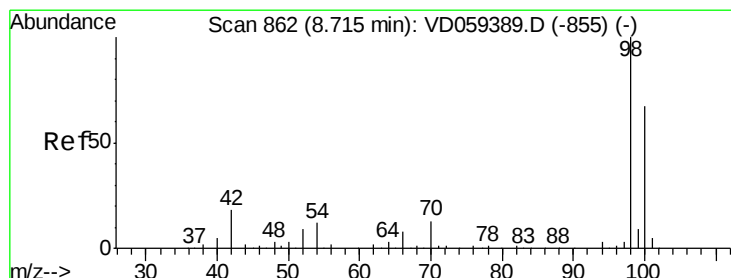
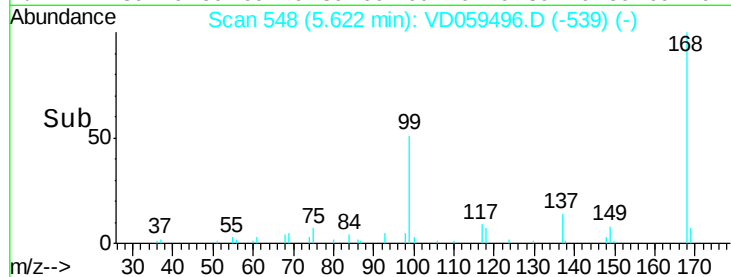
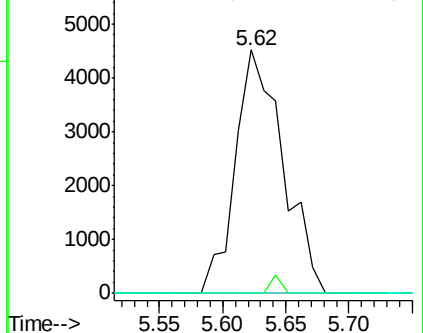
121 0.0 25.0 37.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD059496.D

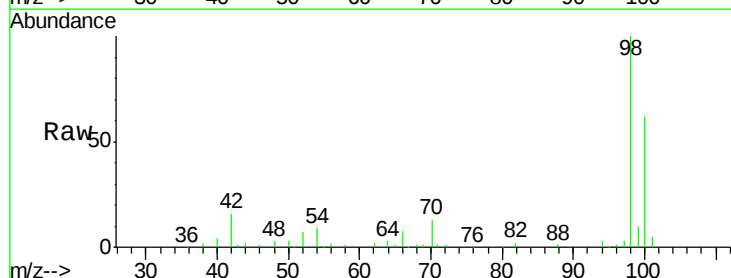
Acq: 29 Jun 2018 17:18

Tgt Ion: 98 Resp: 232911

Ion Ratio Lower Upper

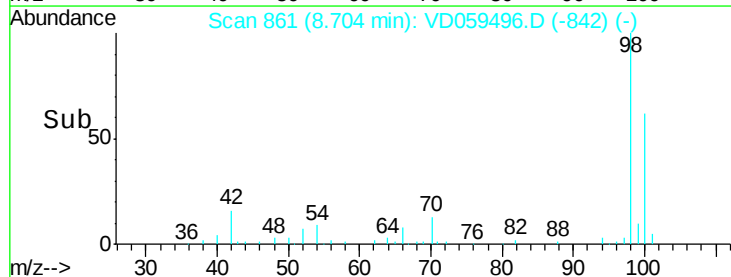
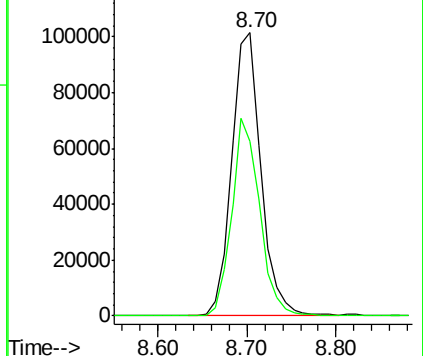
98 100

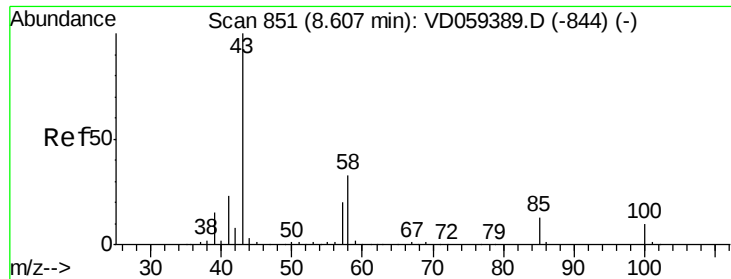
100 61.9 54.4 81.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.830 ug/l

RT: 8.70 min Scan# 861

Delta R.T. 0.10 min

Lab File: VD059496.D

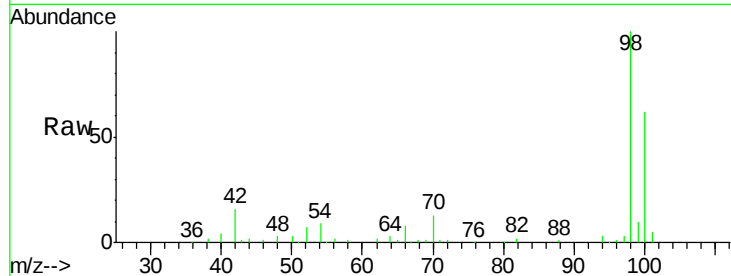
Acq: 29 Jun 2018 17:18

Tot Ion: 43 Resp: 1791

Ion Ratio Lower Upper

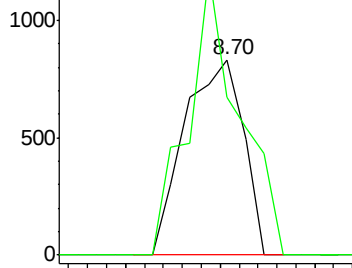
43 100

58 80.6 26.3 39.5#

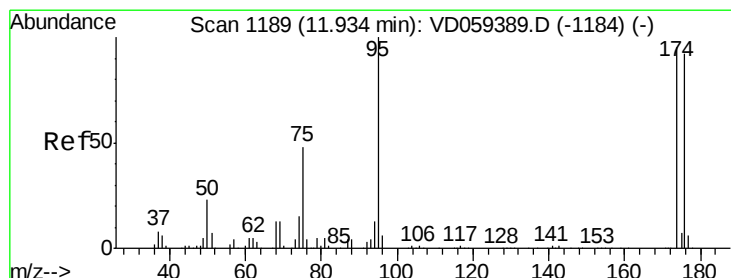
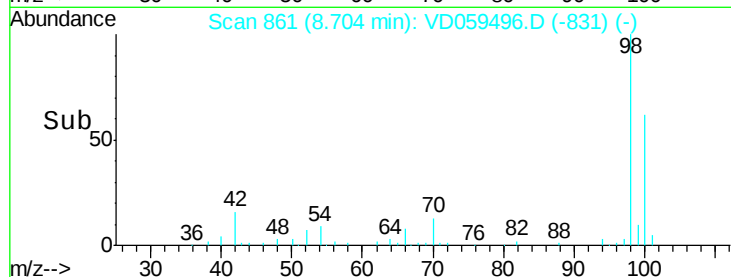


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.92 min Scan# 1188

Delta R.T. -0.01 min

Lab File: VD059496.D

Acq: 29 Jun 2018 17:18

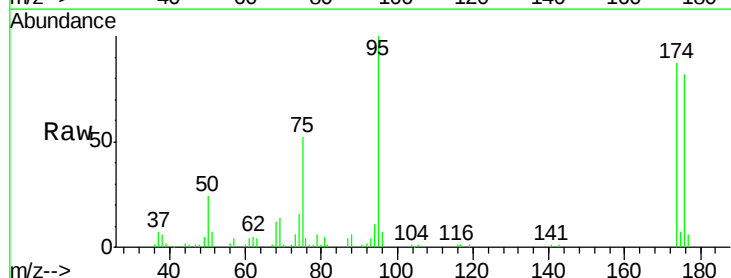
Tgt Ion: 95 Resp: 108697

Ion Ratio Lower Upper

95 100

174 87.2 0.0 190.4

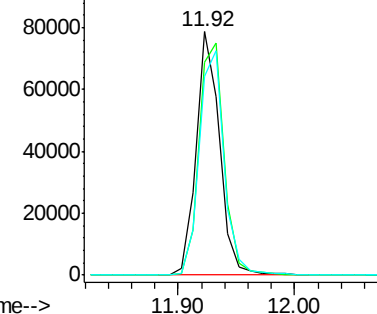
176 81.9 0.0 183.2



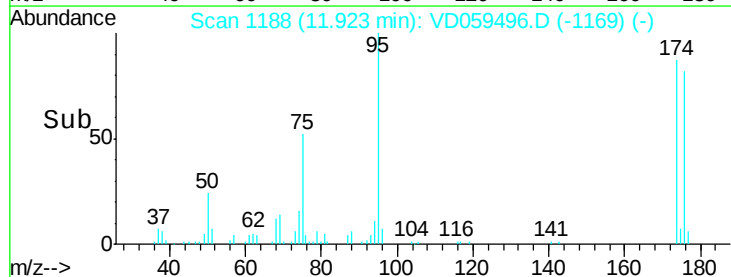
Abundance Ion 95.00 (94.70 to 95.70): VDC

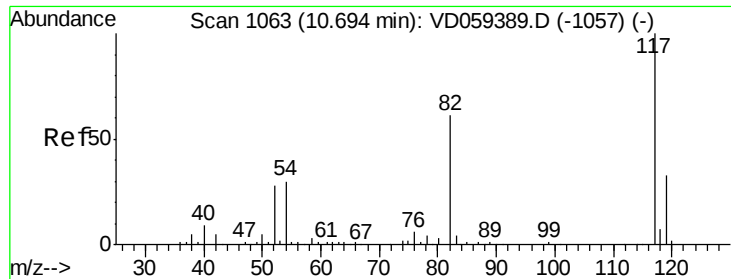
Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



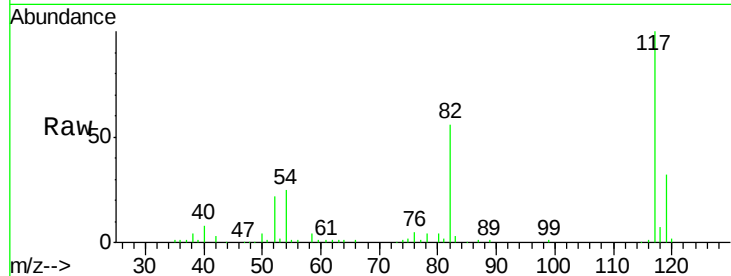
Time-->



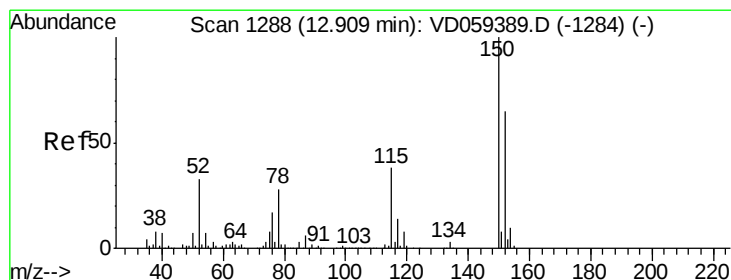
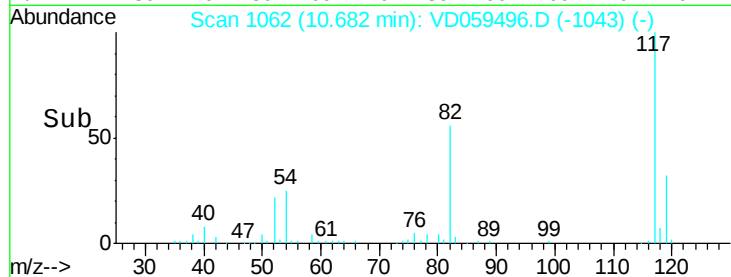
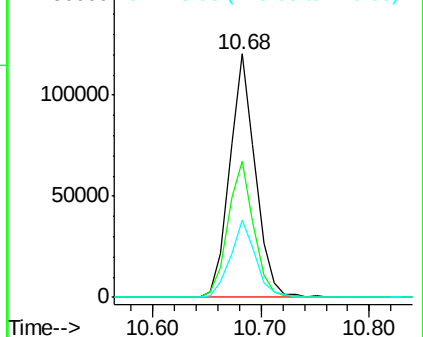


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD059496.D
Acq: 29 Jun 2018 17:18

Tot Ion:117 Resp: 197500
Ion Ratio Lower Upper
117 100
82 55.8 49.0 73.6
119 31.8 26.2 39.4

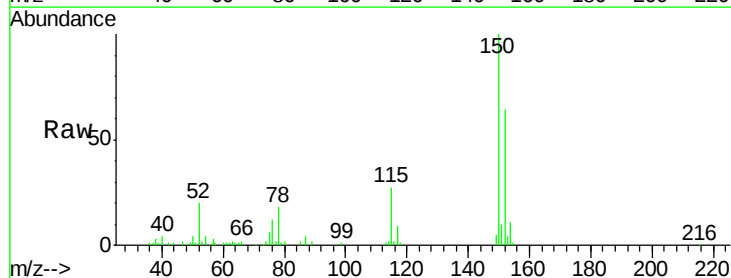


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

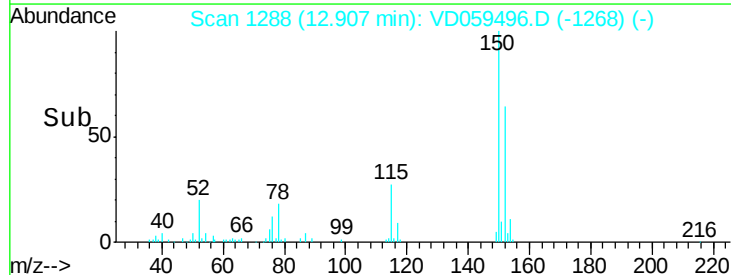
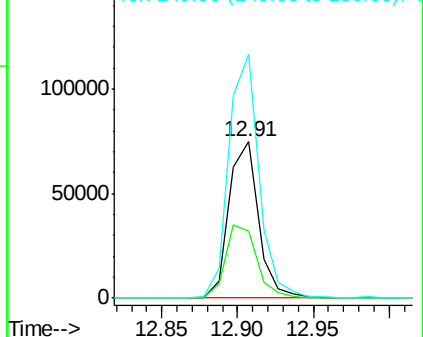


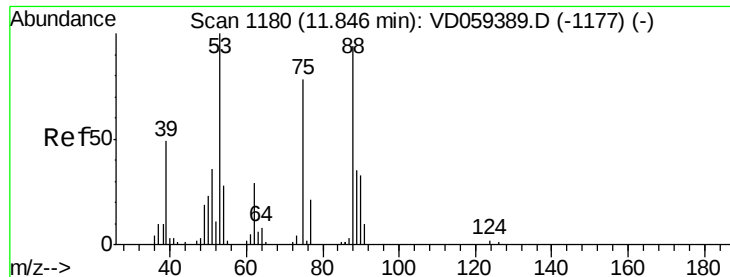
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VD059496.D
Acq: 29 Jun 2018 17:18

Tgt Ion:152 Resp: 101347
Ion Ratio Lower Upper
152 100
115 42.8 29.4 88.3
150 155.7 0.0 308.2



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





#81

trans-1,4-Dichloro-2-butene

Concen: 171.551 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD059496.D

Acq: 29 Jun 2018 17:18

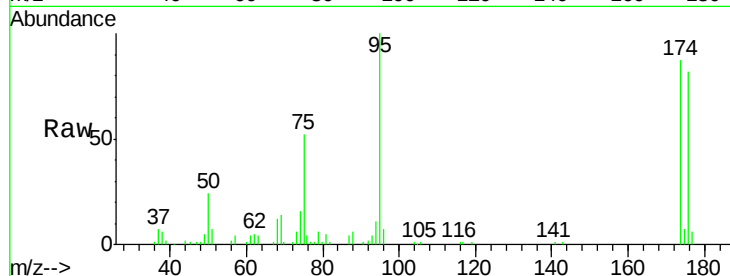
Tot Ion: 75 Resp: 54508

Ion Ratio Lower Upper

75 100

53 0.0 102.6 154.0#

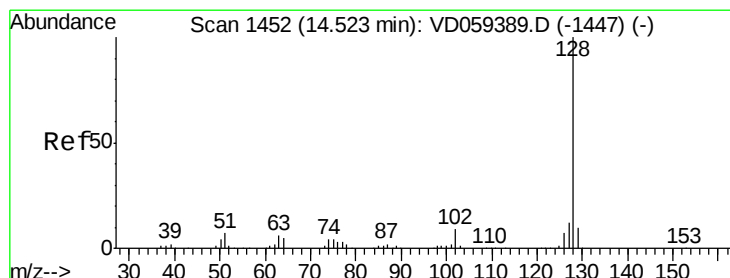
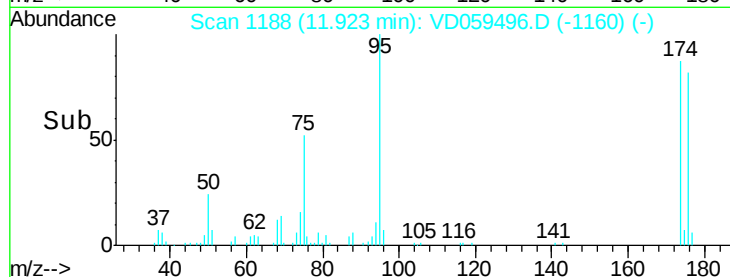
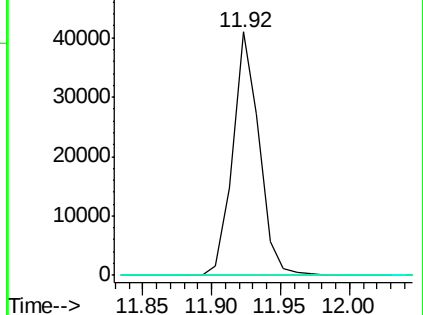
89 0.0 35.9 53.9#



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: 1.326 ug/l

RT: 14.51 min Scan# 1451

Delta R.T. -0.01 min

Lab File: VD059496.D

Acq: 29 Jun 2018 17:18

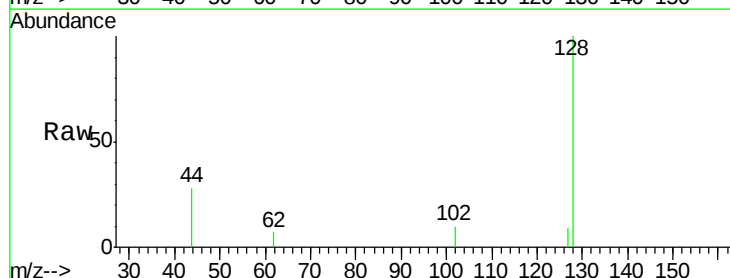
Tgt Ion:128 Resp: 4289

Ion Ratio Lower Upper

128 100

127 8.9 9.6 14.4#

129 0.0 8.2 12.2#



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

