

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031319\
 Data File : VD061052.D
 Acq On : 13 Mar 2019 19:49
 Operator : VA/AP
 Sample : K1871-05RE
 Misc : 6.98g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 14 02:02:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	49670	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.20	114	107543	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	67179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	17634	50.00	ug/l	0.00

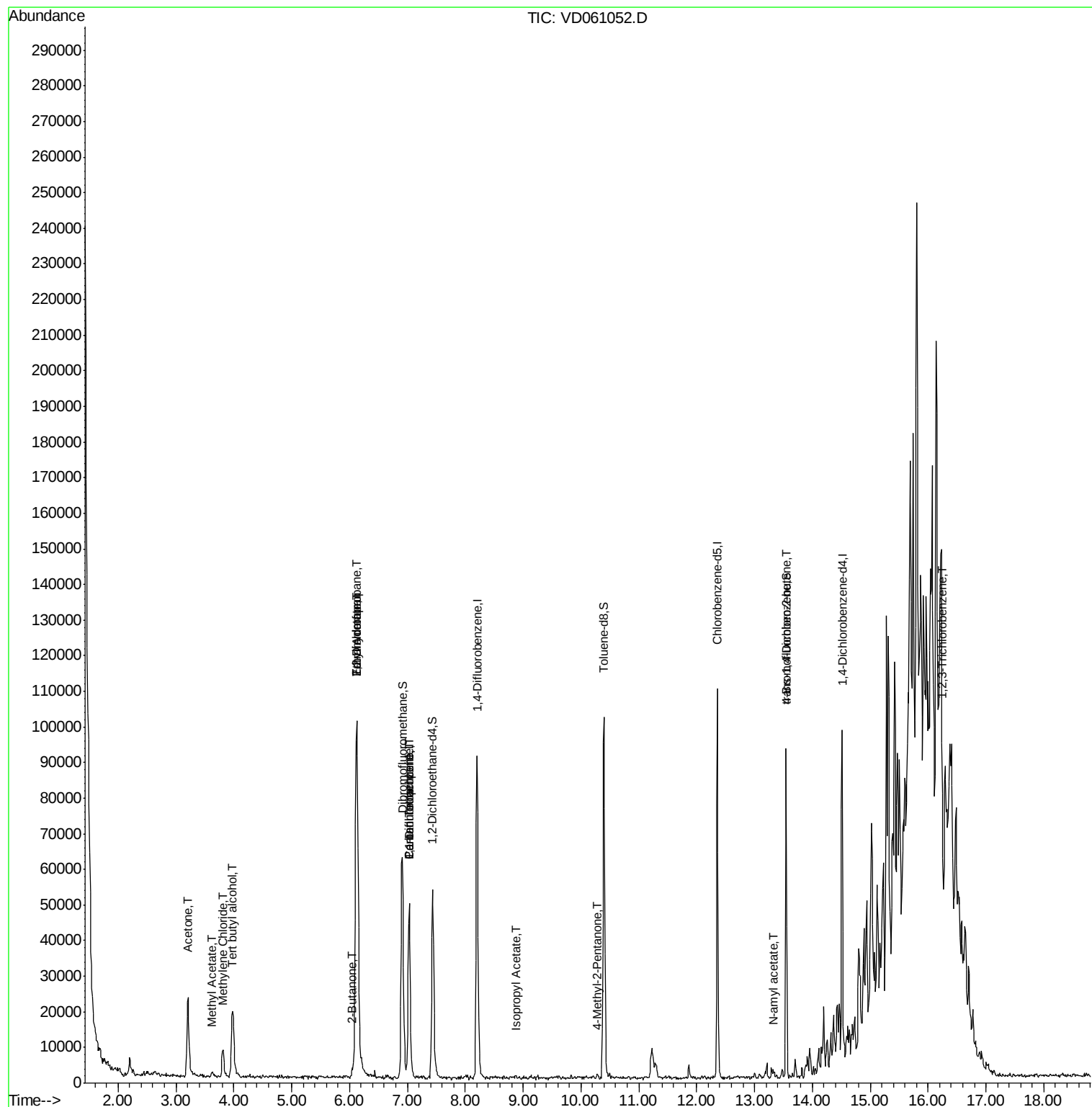
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	54043	130.71	ug/l	-0.01
Spiked Amount			Recovery	=	261.42%	
35) Dibromofluoromethane	6.90	113	60839	76.23	ug/l	-0.02
Spiked Amount			Recovery	=	152.46%	
50) Toluene-d8	10.40	98	93048	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
62) 4-Bromofluorobenzene	13.55	95	29122	37.45	ug/l	0.00
Spiked Amount			Recovery	=	74.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.97	59	19979	759.059	ug/l #	75
16) Acetone	3.21	43	45801	387.394	ug/l	96
18) Methyl Acetate	3.63	43	3512	15.094	ug/l #	59
20) Methylene Chloride	3.81	84	5702	6.522	ug/l	91
25) 2-Butanone	6.05	43	5513	41.094	ug/l #	87
26) 2,2-Dichloropropane	6.13	77	7427	10.485	ug/l #	50
29) Tetrahydrofuran	6.12	42	1098	15.073	ug/l #	33
36) 1,1-Dichloropropene	7.03	75	4001	4.316	ug/l #	39
37) Ethyl Acetate	6.12	43	6077	13.970	ug/l #	12
38) Carbon Tetrachloride	7.03	117	4595	4.500	ug/l #	11
43) Isopropyl Acetate	8.87	43	659	1.094	ug/l #	43
51) 4-Methyl-2-Pentanone	10.29	43	1128	3.056	ug/l #	37
74) N-amyl acetate	13.32	43	1454	4.063	ug/l #	29
81) trans-1,4-Dichloro-2-buten	13.55	75	11592	154.983	ug/l #	17
96) 1,2,3-Trichlorobenzene	16.25	180	819	7.402	ug/l #	11

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD061052.D

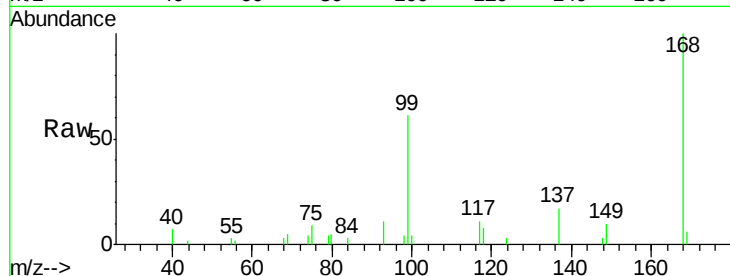
Acq: 13 Mar 2019 19:49

Tot Ion:168 Resp: 49670

Ion Ratio Lower Upper

168 100

99 61.1 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

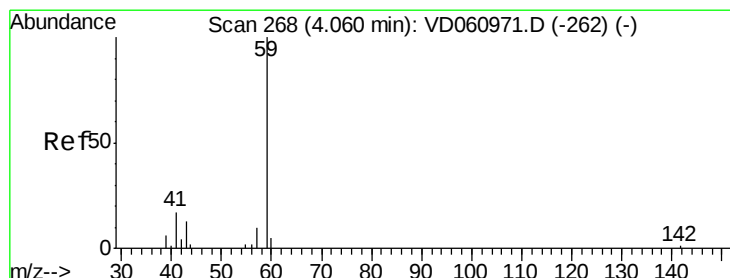
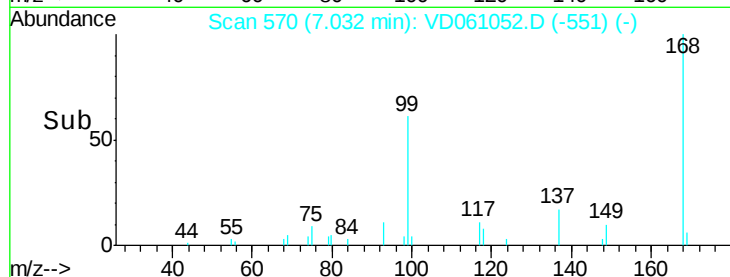
15000

10000

5000

0

Time--> 6.90 7.00 7.10



#11

Tert butyl alcohol

Concen: 759.059 ug/l

RT: 3.97 min Scan# 259

Delta R.T. -0.09 min

Lab File: VD061052.D

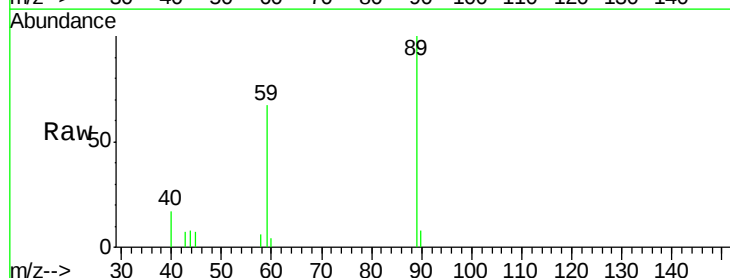
Acq: 13 Mar 2019 19:49

Tgt Ion: 59 Resp: 19979

Ion Ratio Lower Upper

59 100

57 0.0 7.1 10.7#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.97

6000

5000

4000

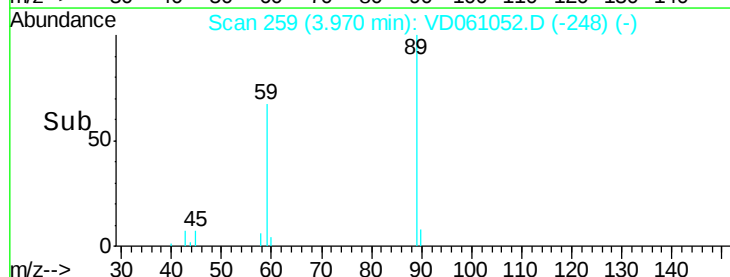
3000

2000

1000

0

Time--> 3.90 4.00 4.10





#16

Acetone

Concen: 387.394 ug/l

RT: 3.21 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD061052.D

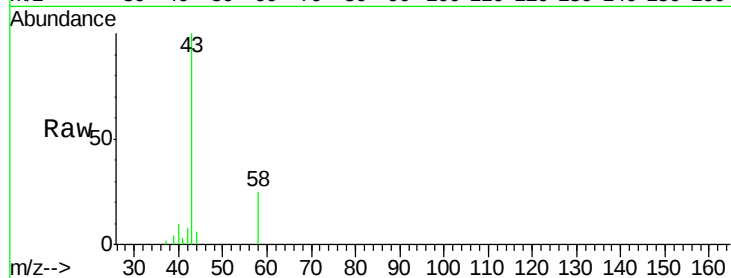
Acq: 13 Mar 2019 19:49

Tot Ion: 43 Resp: 45801

Ion Ratio Lower Upper

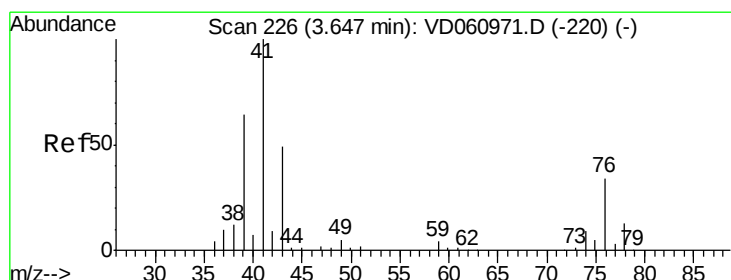
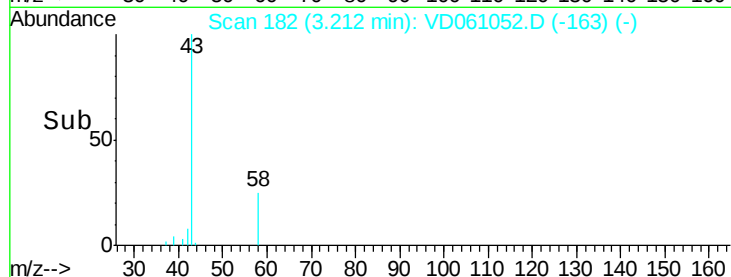
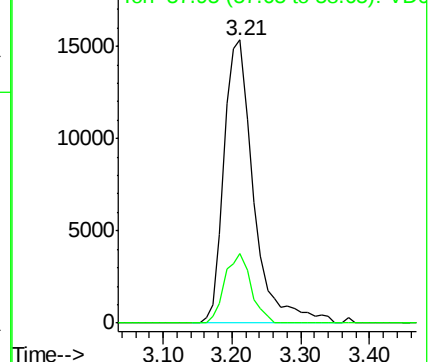
43 100

58 24.7 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 15.094 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.02 min

Lab File: VD061052.D

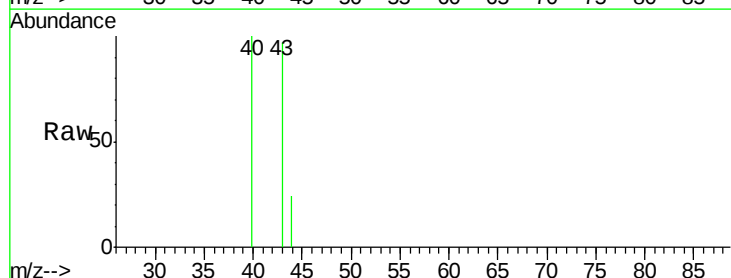
Acq: 13 Mar 2019 19:49

Tgt Ion: 43 Resp: 3512

Ion Ratio Lower Upper

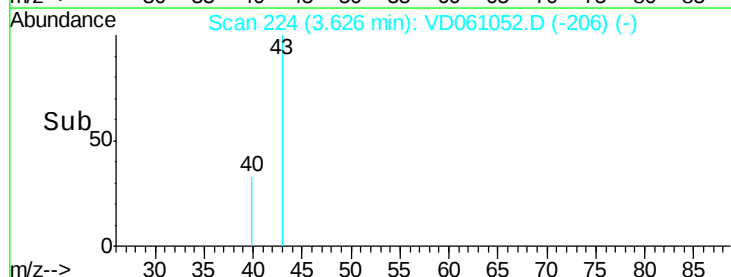
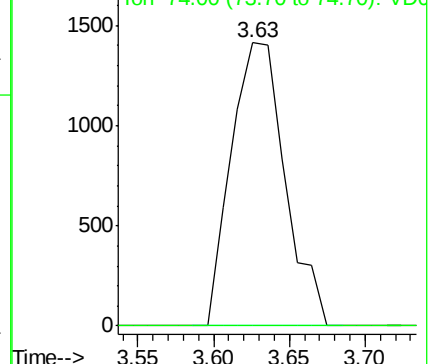
43 100

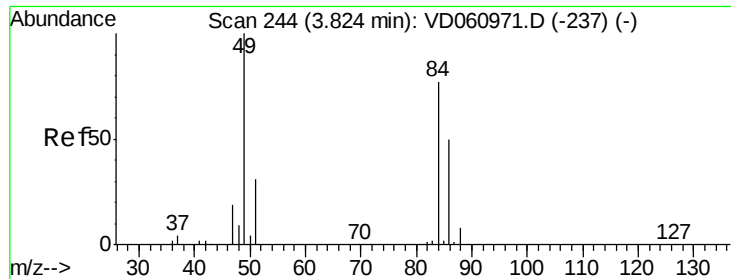
74 0.0 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

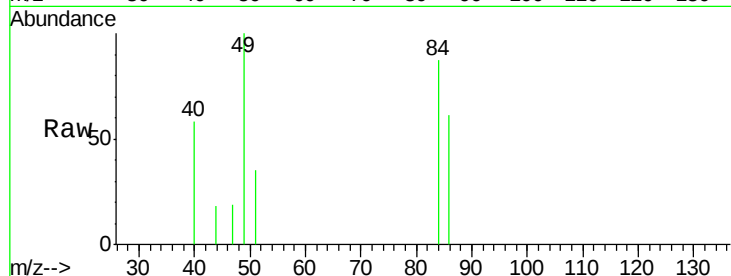
Ion 74.00 (73.70 to 74.70): VDC



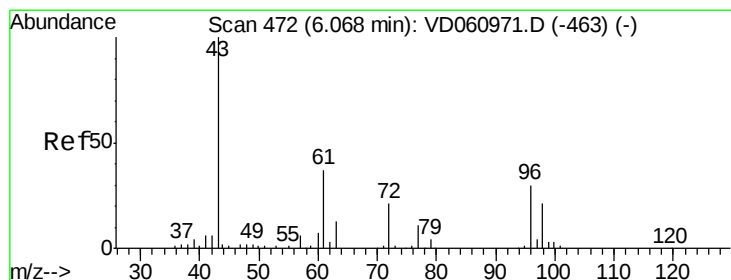
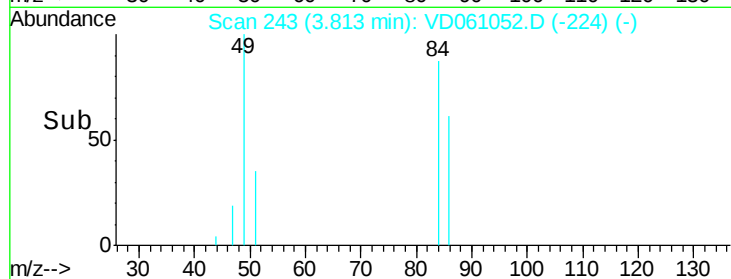
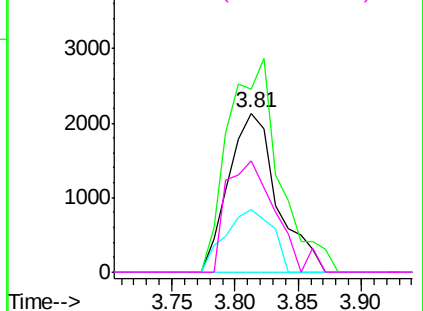


#20
Methvlene Chloride
Concen: 6.522 ug/l
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD061052.D
Acq: 13 Mar 2019 19:49

Tot Ion:	84	Resp:	5702
Ion	Ratio	Lower	Upper
84	100		
49	115.4	104.2	156.2
51	39.8	32.3	48.5
86	69.9	52.3	78.5

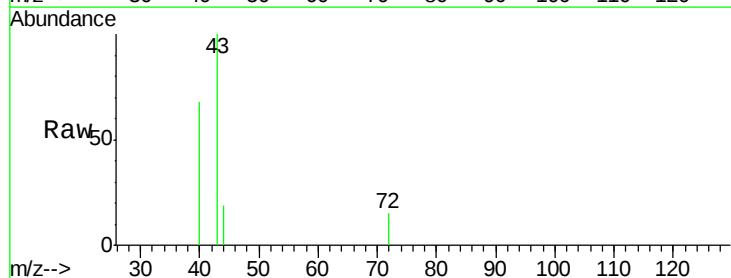


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

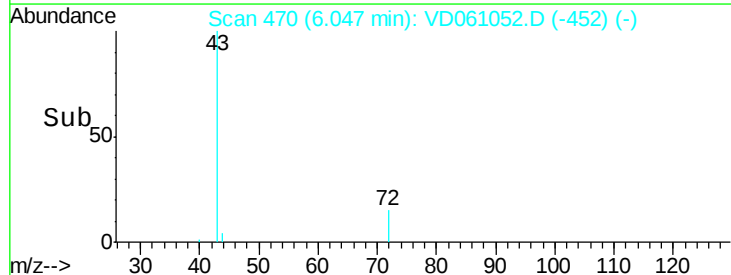
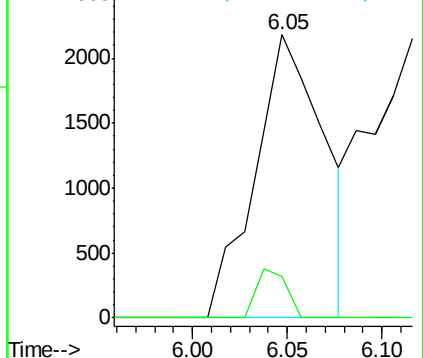


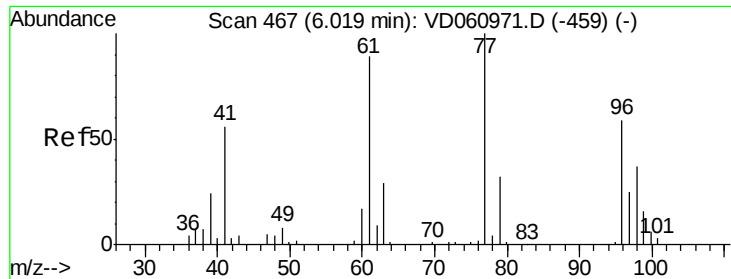
#25
2-Butanone
Concen: 41.094 ug/l
RT: 6.05 min Scan# 470
Delta R.T. -0.02 min
Lab File: VD061052.D
Acq: 13 Mar 2019 19:49

Tgt Ion:	43	Resp:	5513
Ion	Ratio	Lower	Upper
43	100		
72	14.7	16.7	25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 10.485 ug/l

RT: 6.13 min Scan# 478

Delta R.T. 0.11 min

Lab File: VD061052.D

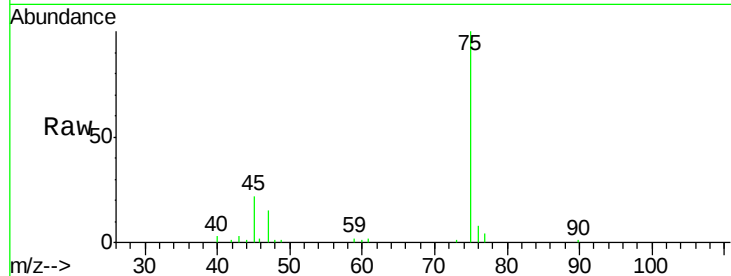
Acq: 13 Mar 2019 19:49

Tot Ion: 77 Resp: 7427

Ion Ratio Lower Upper

77 100

97 0.0 12.6 37.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

6.13

2500

2000

1500

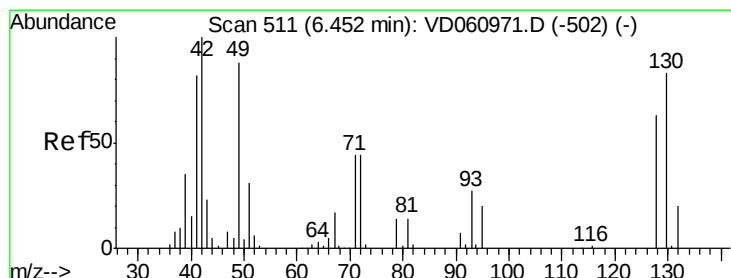
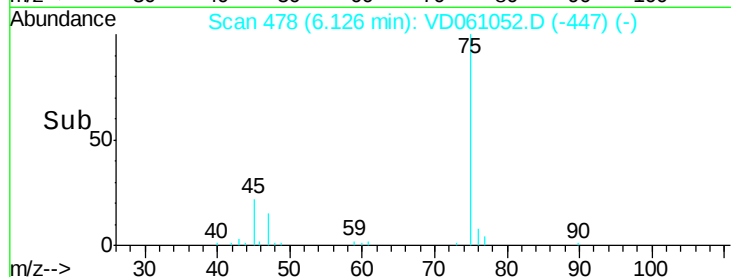
1000

500

0

6.05 6.10 6.15 6.20

Time-->



#29

Tetrahydrofuran

Concen: 15.073 ug/l

RT: 6.12 min Scan# 477

Delta R.T. -0.34 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

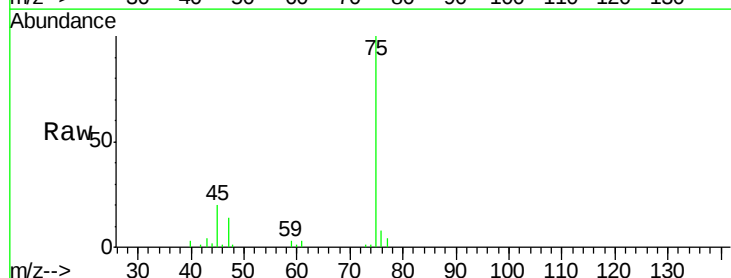
Tgt Ion: 42 Resp: 1098

Ion Ratio Lower Upper

42 100

72 0.0 34.5 51.7#

71 0.0 33.8 50.6#



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

600

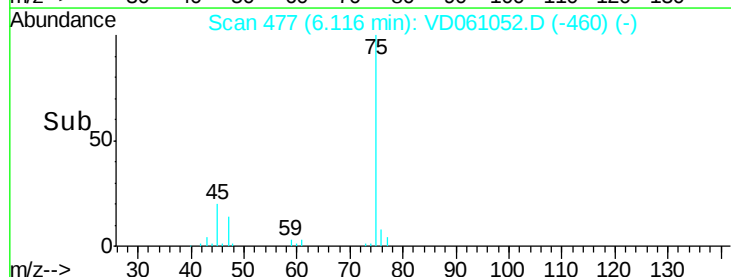
400

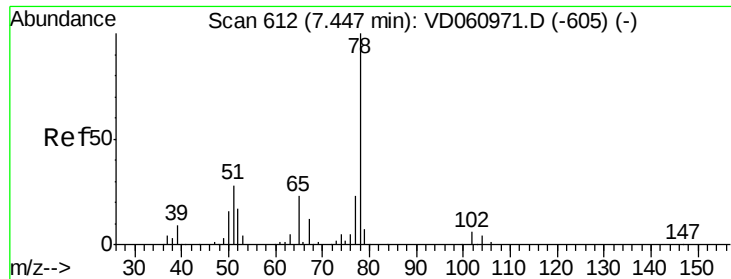
200

0

6.05 6.10 6.15

Time-->





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD061052.D

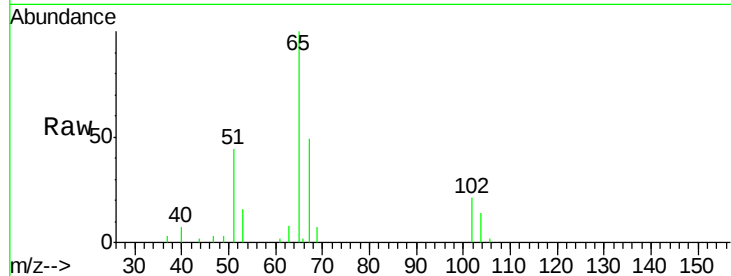
Acq: 13 Mar 2019 19:49

Tot Ion: 65 Resp: 54043

Ion Ratio Lower Upper

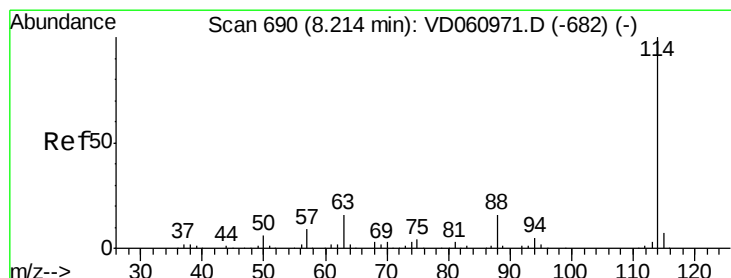
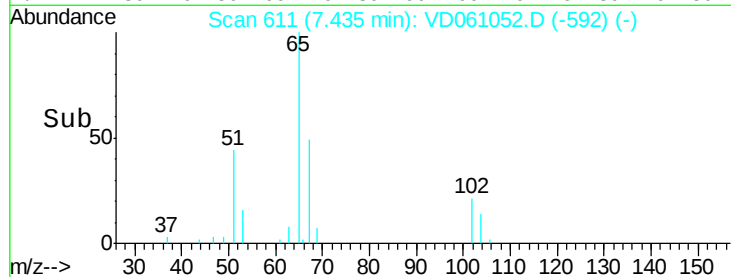
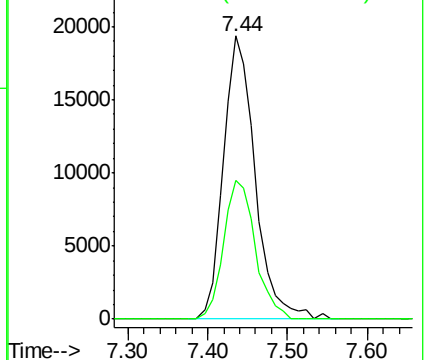
65 100

67 49.1 0.0 105.2



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: 8.20 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

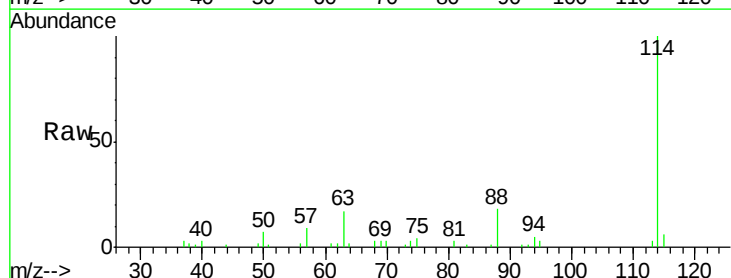
Tgt Ion: 114 Resp: 107543

Ion Ratio Lower Upper

114 100

63 16.6 0.0 31.4

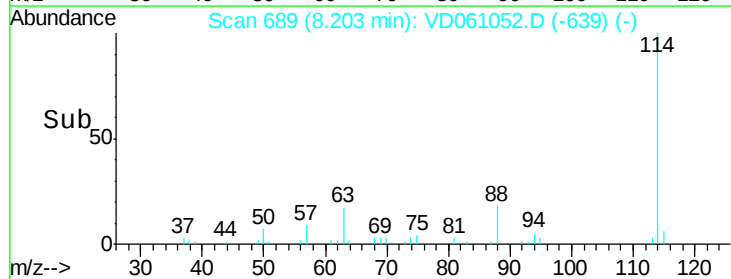
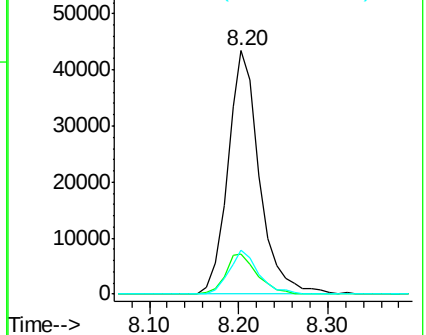
88 18.2 0.0 33.0

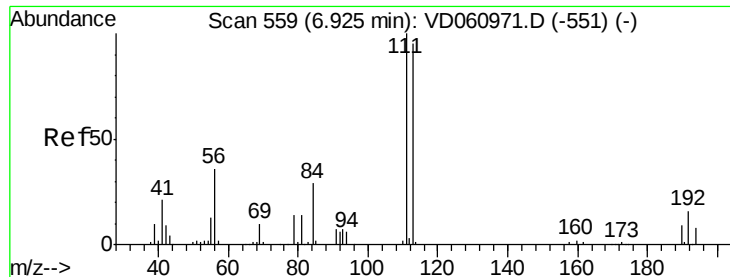


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.90 min Scan# 557

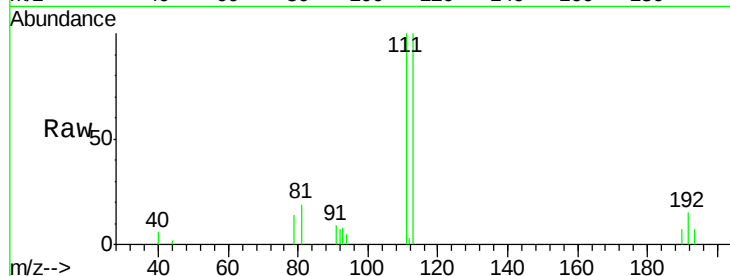
Delta R.T. -0.02 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

Tot Ion:113 Resp: 60839

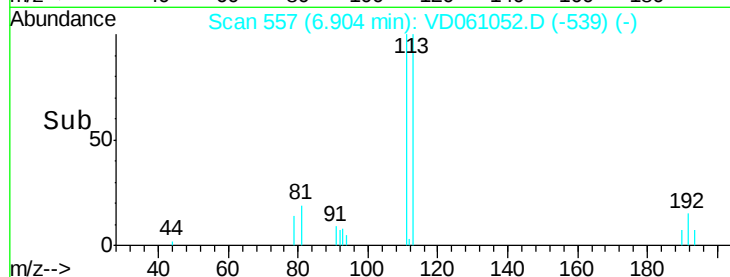
Ion	Ratio	Lower	Upper
113	100		
111	99.7	84.2	126.4
192	15.0	13.1	19.7



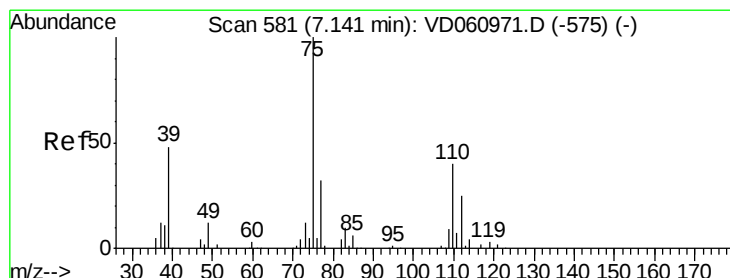
Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



Time-->



#36

1,1-Dichloropropene

Concen: 4.316 ug/l

RT: 7.03 min Scan# 570

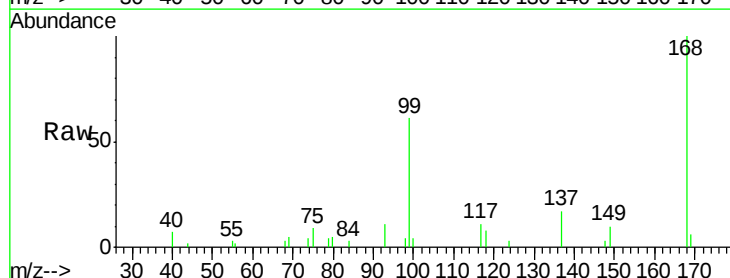
Delta R.T. -0.11 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

Tgt Ion: 75 Resp: 4001

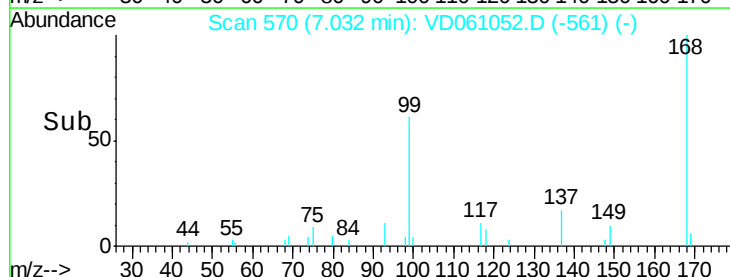
Ion	Ratio	Lower	Upper
75	100		
110	0.0	19.7	59.1#
77	0.0	24.7	37.1#



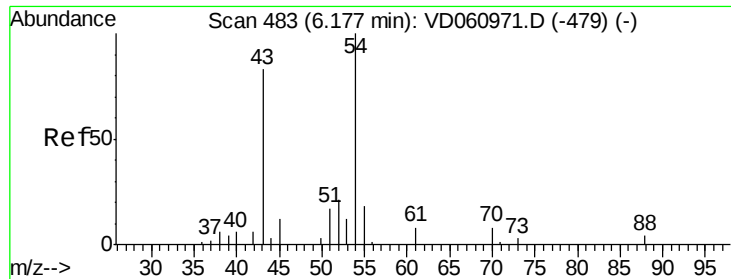
Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC



Time-->



#37

Ethyl Acetate

Concen: 13.970 ug/l

RT: 6.12 min Scan# 477

Delta R.T. -0.06 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

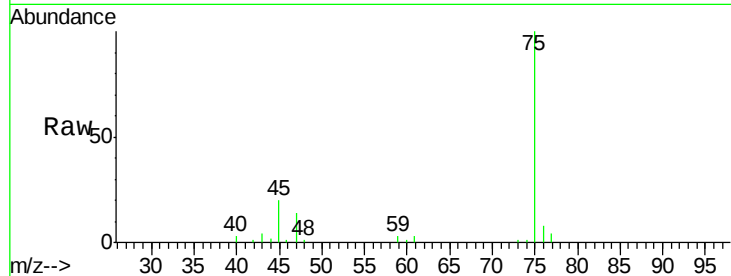
Tot Ion: 43 Resp: 6077

Ion Ratio Lower Upper

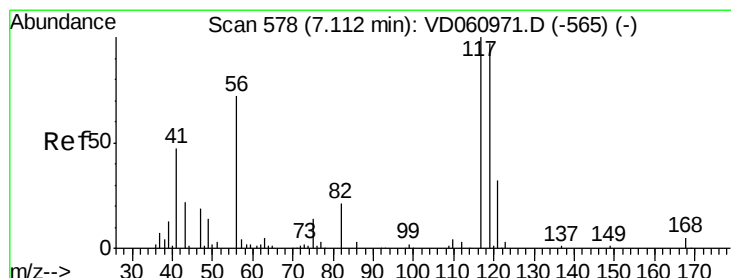
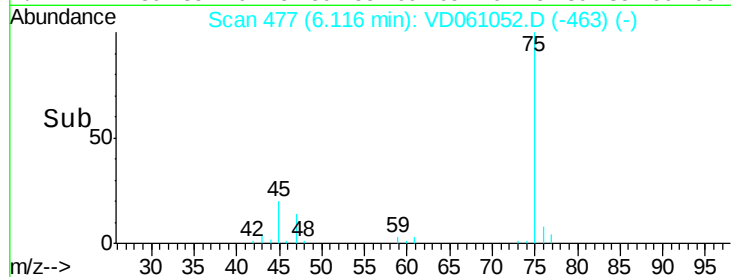
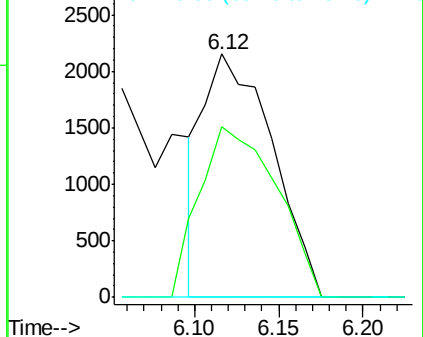
43 100

61 69.9 13.7 20.5#

70 0.0 7.1 10.7#



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: 4.500 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.08 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

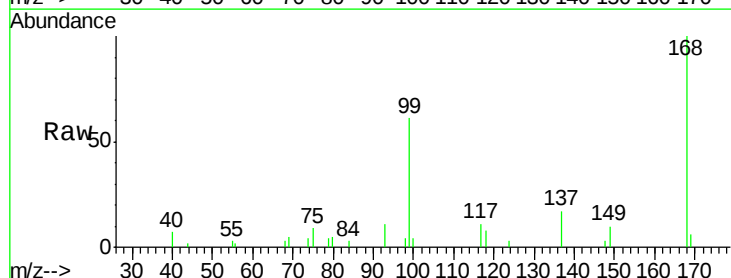
Tgt Ion: 117 Resp: 4595

Ion Ratio Lower Upper

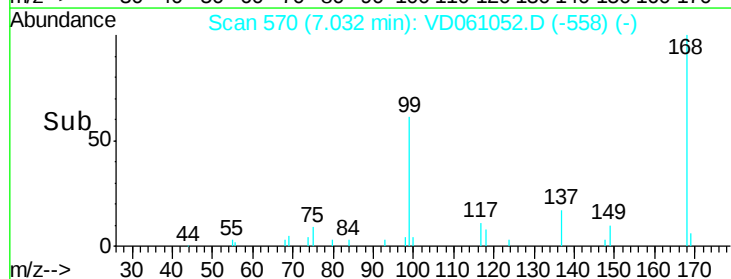
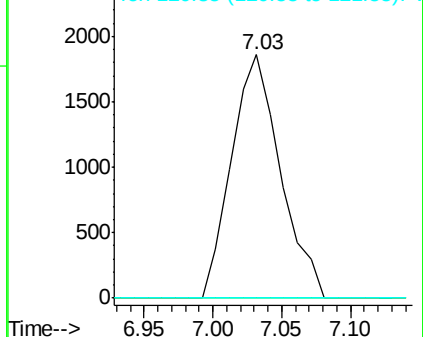
117 100

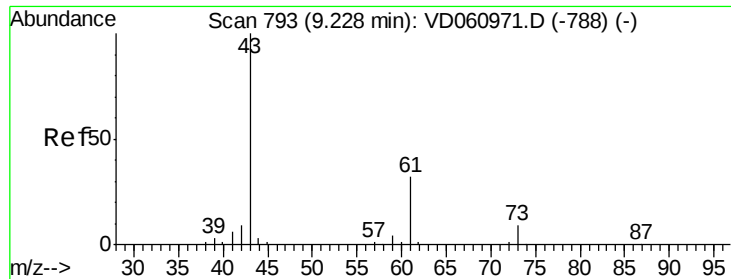
119 0.0 77.8 116.8#

121 0.0 25.3 37.9#



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





#43

Isopropyl Acetate

Concen: 1.094 ug/l

RT: 8.87 min Scan# 757

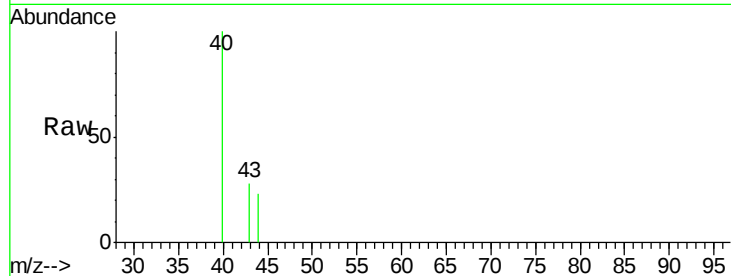
Delta R.T. -0.36 min

Lab File: VD061052.D

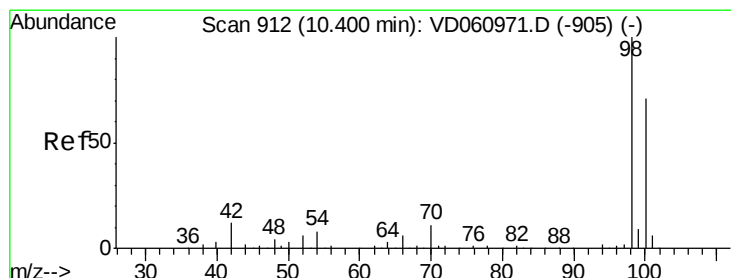
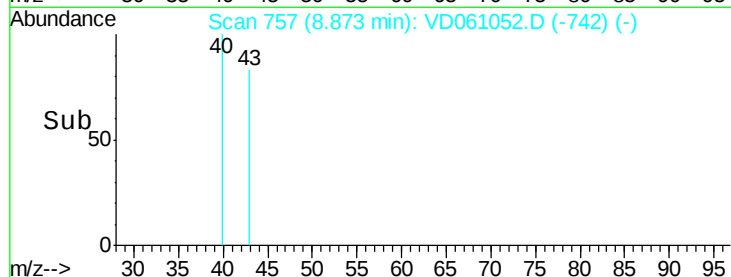
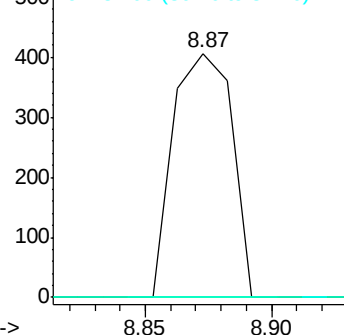
Acq: 13 Mar 2019 19:49

Tot Ion: 43 Resp: 659

Ion	Ratio	Lower	Upper
43	100		
61	0.0	25.6	38.4#
87	0.0	0.2	0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

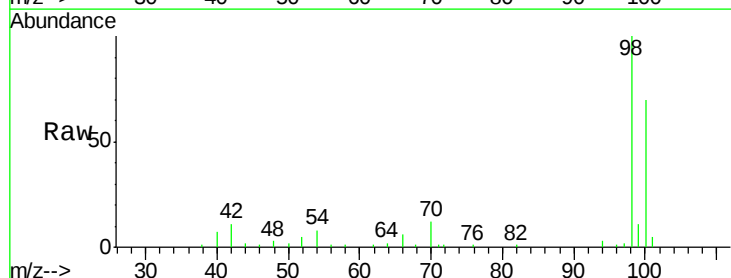
Delta R.T. -0.00 min

Lab File: VD061052.D

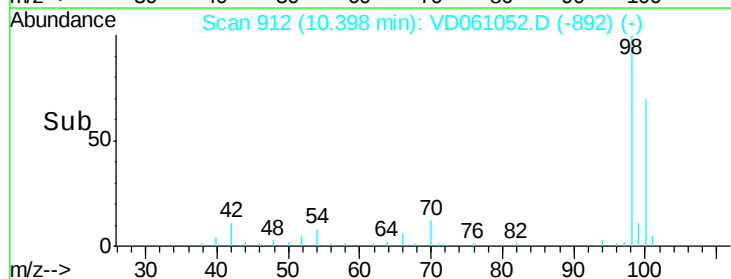
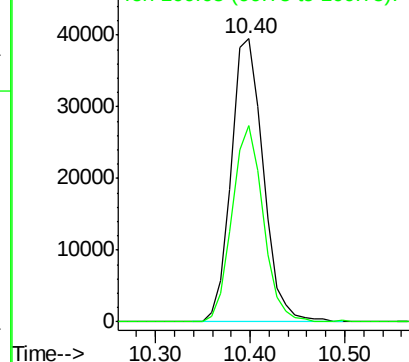
Acq: 13 Mar 2019 19:49

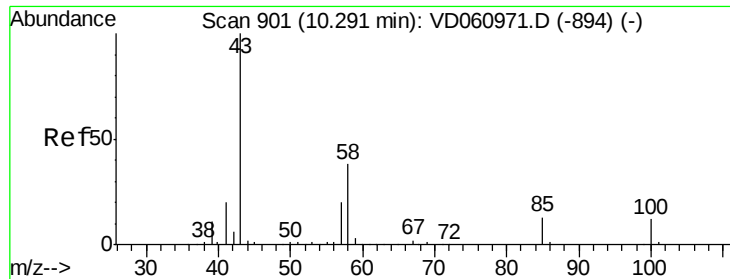
Tgt Ion: 98 Resp: 93048

Ion	Ratio	Lower	Upper
98	100		
100	69.5	57.4	86.2



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





#51

4-Methyl-2-Pentanone

Concen: 3.056 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD061052.D

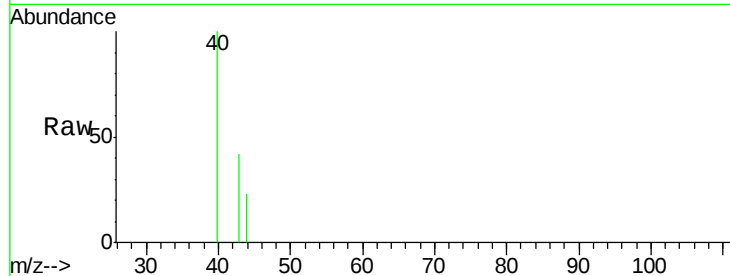
Acq: 13 Mar 2019 19:49

Tot Ion: 43 Resp: 1128

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

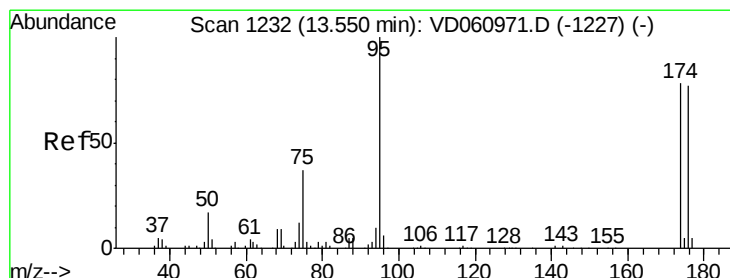
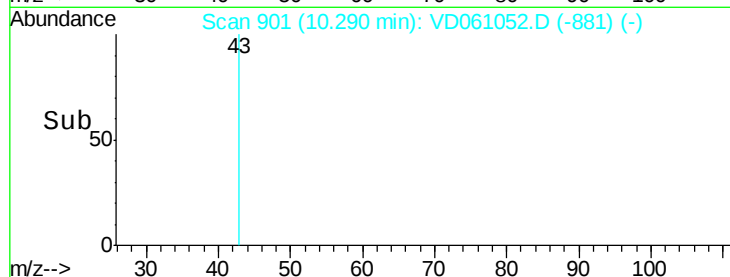
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

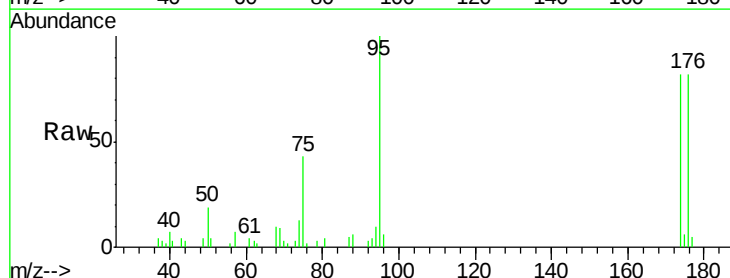
Tgt Ion: 95 Resp: 29122

Ion Ratio Lower Upper

95 100

174 82.4 0.0 155.6

176 82.0 0.0 153.8



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

25000

20000

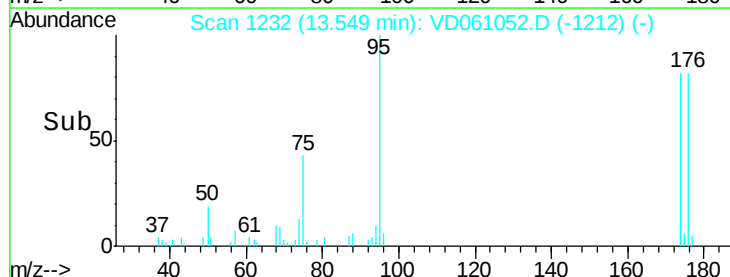
15000

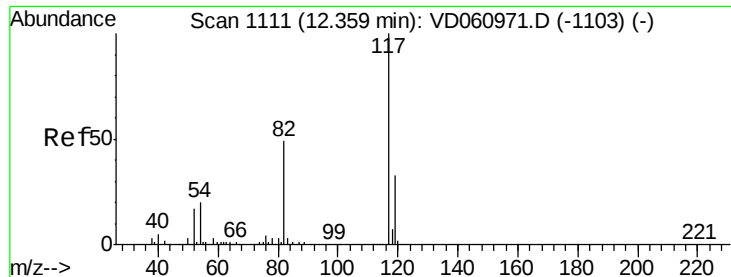
10000

5000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

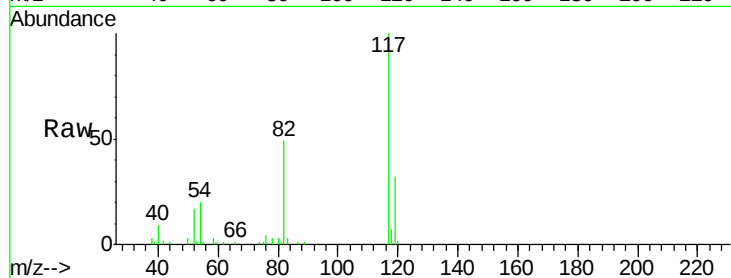
Tot Ion:117 Resp: 67179

Ion Ratio Lower Upper

117 100

82 49.3 38.9 58.3

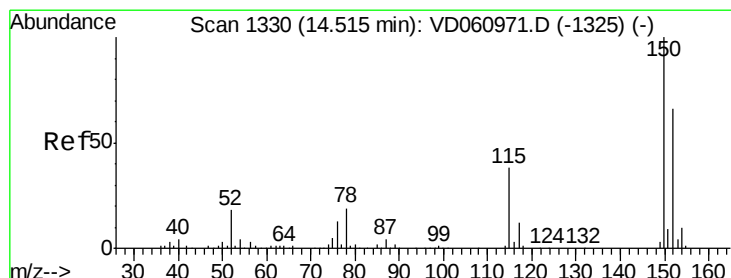
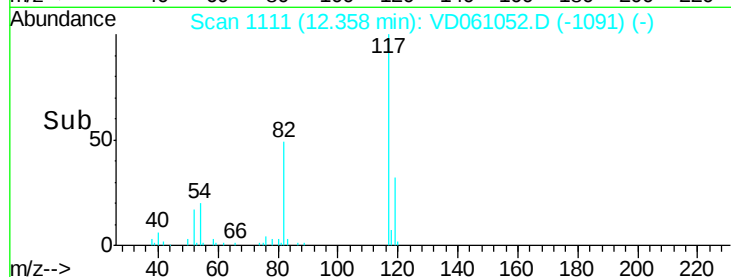
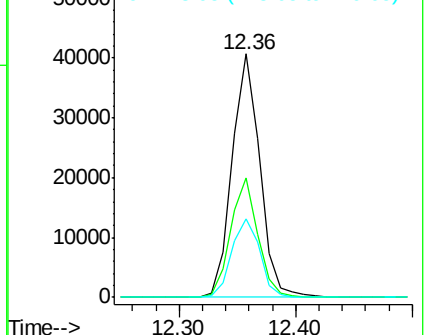
119 32.1 26.6 39.8



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: 14.51 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

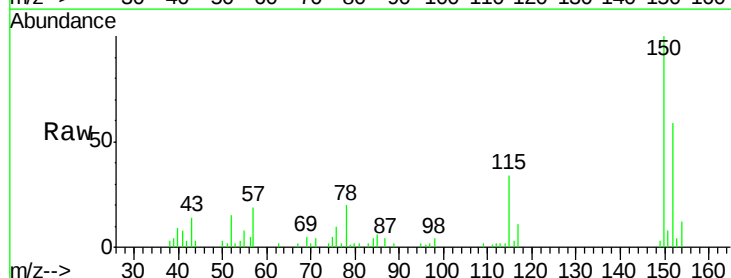
Tgt Ion:152 Resp: 17634

Ion Ratio Lower Upper

152 100

115 57.1 28.6 85.9

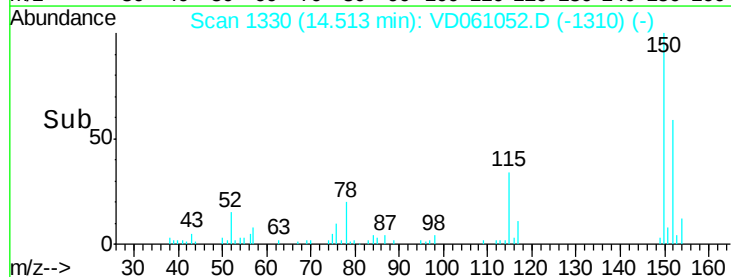
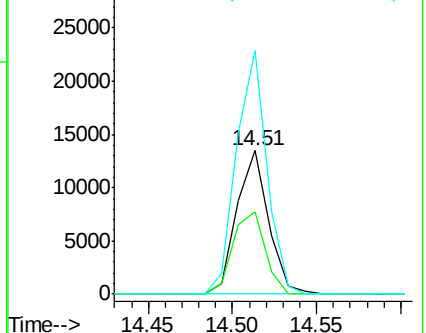
150 170.0 0.0 310.6

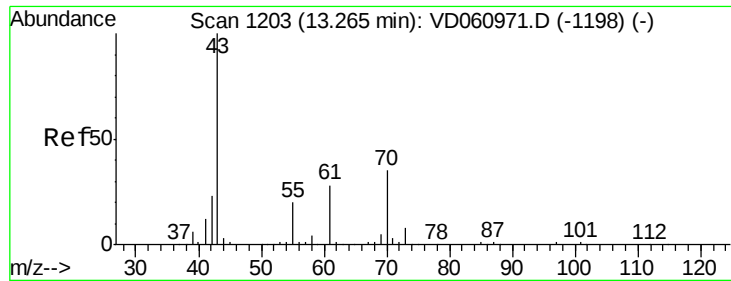


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 4.063 ug/l

RT: 13.32 min Scan# 1209

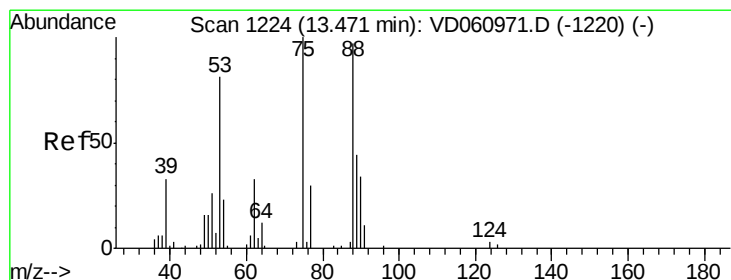
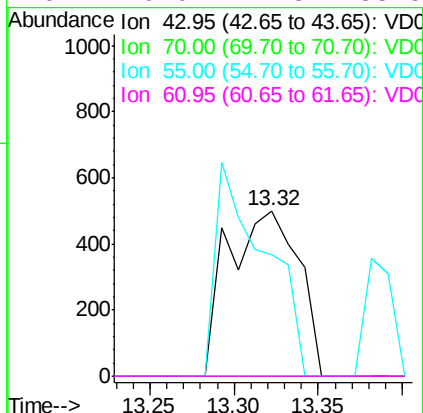
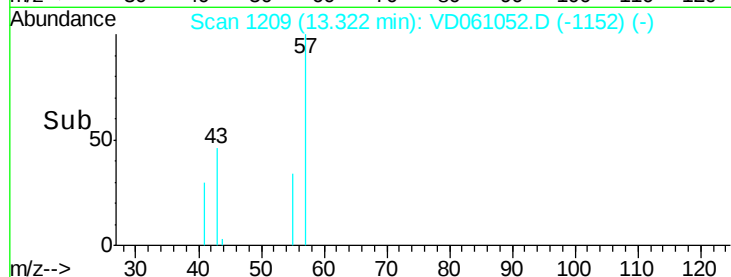
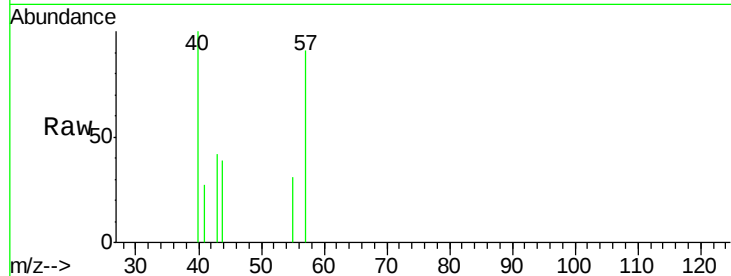
Delta R.T. 0.06 min

Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

Tot Ion: 43 Resp: 1454

Ion	Ratio	Lower	Upper
43	100		
70	0.0	27.7	41.5#
55	74.0	16.2	24.2#
61	0.0	22.3	33.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 154.983 ug/l

RT: 13.55 min Scan# 1232

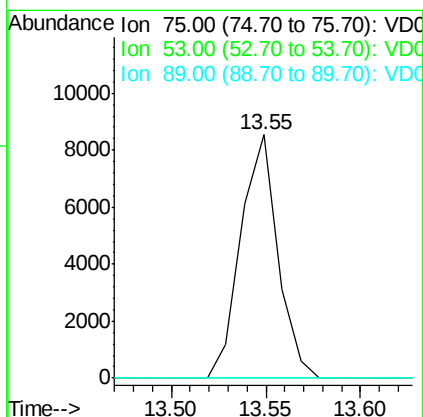
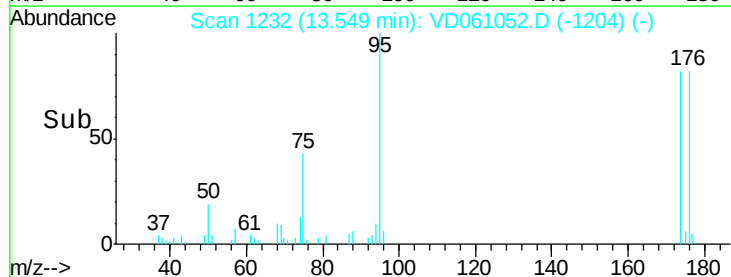
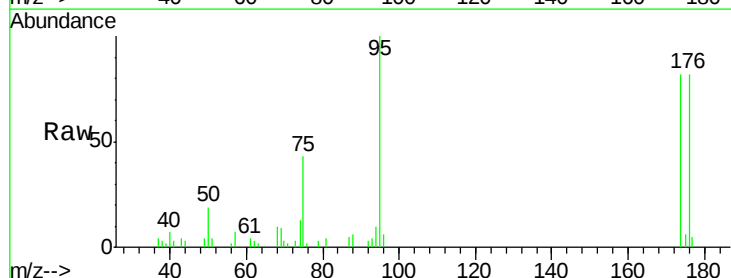
Delta R.T. 0.08 min

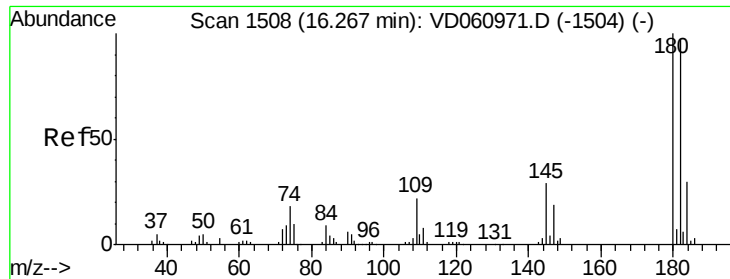
Lab File: VD061052.D

Acq: 13 Mar 2019 19:49

Tgt Ion: 75 Resp: 11592

Ion	Ratio	Lower	Upper
75	100		
53	0.0	64.4	96.6#
89	0.0	34.8	52.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 7.402 ug/l
 RT: 16.25 min Scan# 1506
 Delta R.T. -0.02 min
 Lab File: VD061052.D
 Acq: 13 Mar 2019 19:49

Tot Ion:180 Resp: 819
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.6 145.8#
 145 0.0 14.3 42.9#

