

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD031619\
 Data File : VD061131.D
 Acq On : 17 Mar 2019 3:06
 Operator : VA/AP
 Sample : K1691-09
 Misc : 5.35g/5ml/MSVOA_D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 18 05:02:12 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	7.05	168	543037	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	993688	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	742071	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	335386	50.00	ug/l	0.00

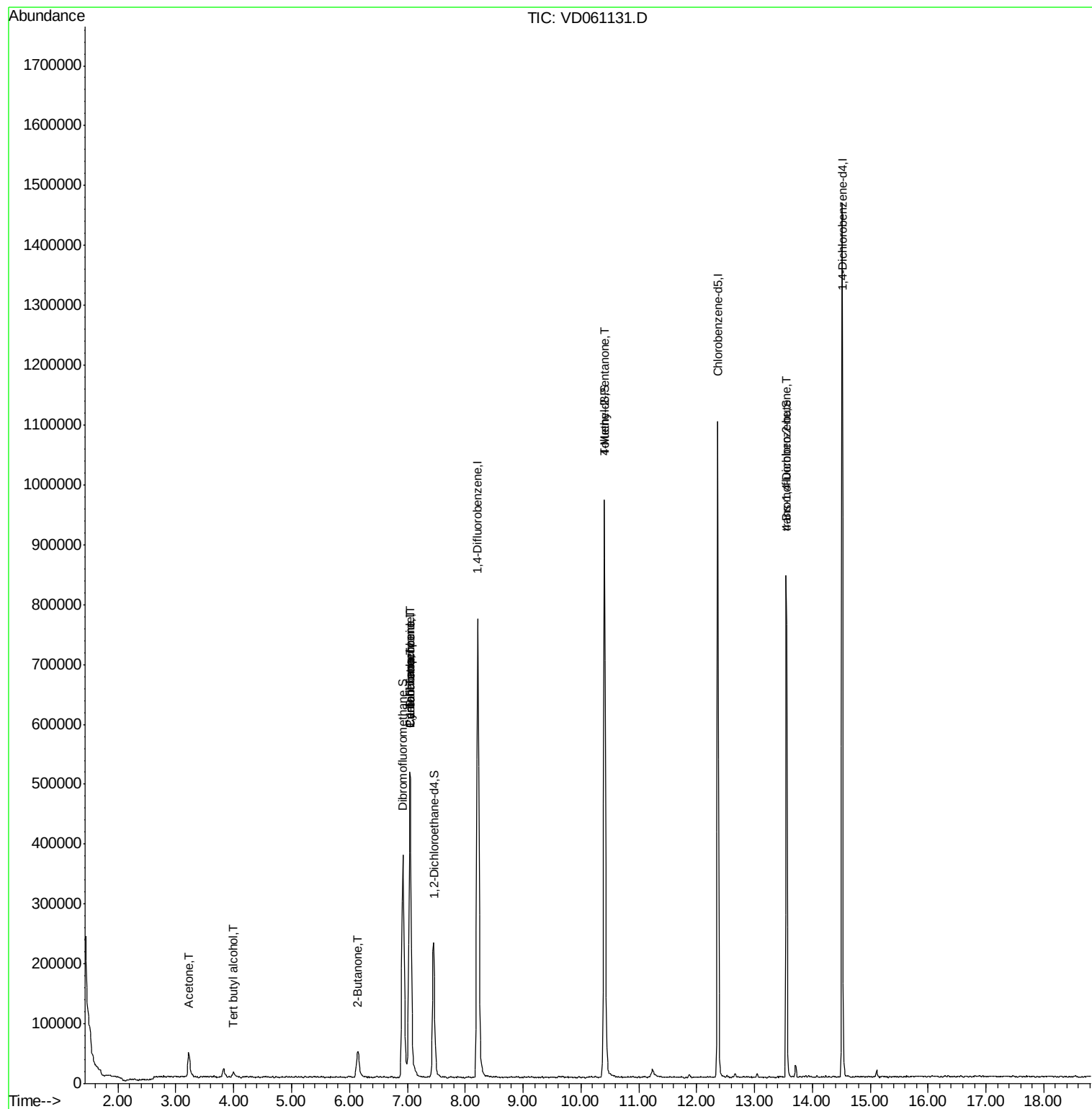
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	215641	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	
35) Dibromofluoromethane	6.92	113	357213	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
50) Toluene-d8	10.41	98	860777	46.48	ug/l	0.00
Spiked Amount			Recovery	=	92.96%	
62) 4-Bromofluorobenzene	13.55	95	290733	40.46	ug/l	0.00
Spiked Amount			Recovery	=	80.92%	

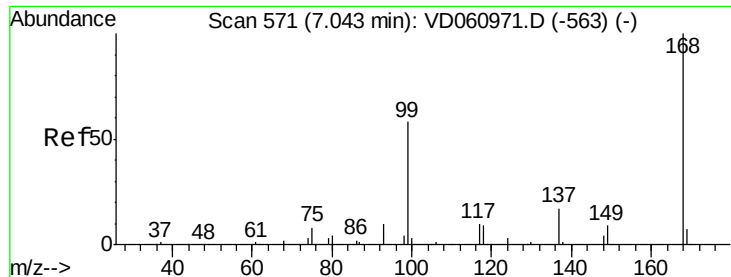
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.20	94	202	Below Cal	#	8
11) Tert butyl alcohol	3.99	59	8253	28.680	ug/l #	75
16) Acetone	3.22	43	81014	62.676	ug/l	97
20) Methylene Chloride	3.81	84	11622	Below Cal	#	81
25) 2-Butanone	6.16	43	2443	1.666	ug/l #	55
31) Cyclohexane	7.04	56	9428	1.179	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	40482	4.726	ug/l #	44
38) Carbon Tetrachloride	7.04	117	53401	5.660	ug/l #	16
51) 4-Methyl-2-Pentanone	10.41	43	3591	1.053	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	104648	73.564	ug/l #	17

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061131.D

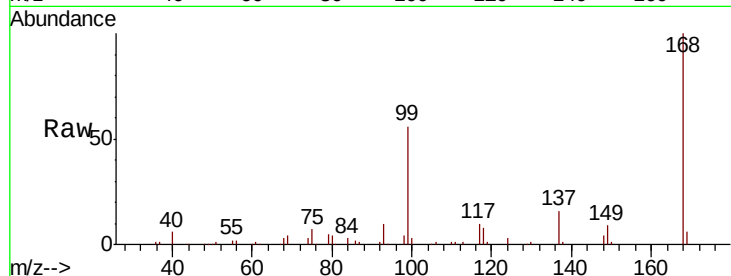
Acq: 17 Mar 2019 3:06

Tgt Ion: 168 Resp: 543037

Ion Ratio Lower Upper

168 100

99 56.3 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

200000

150000

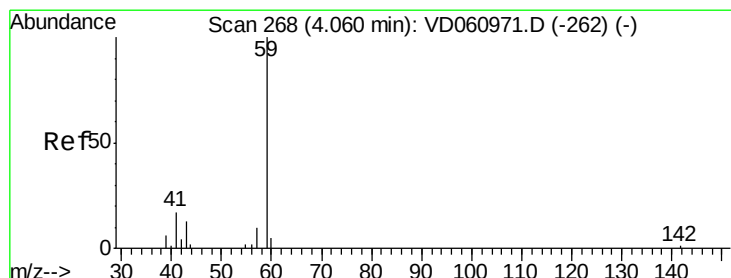
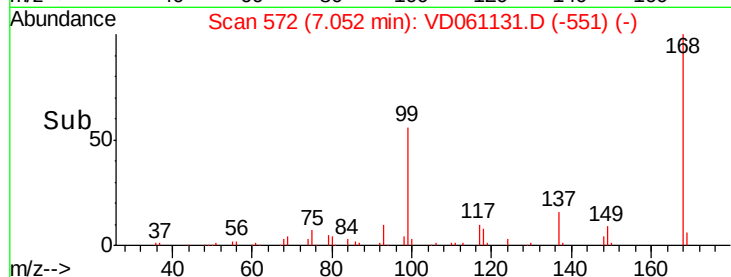
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#11

Tert butyl alcohol

Concen: 28.680 ug/l

RT: 3.99 min Scan# 261

Delta R.T. -0.07 min

Lab File: VD061131.D

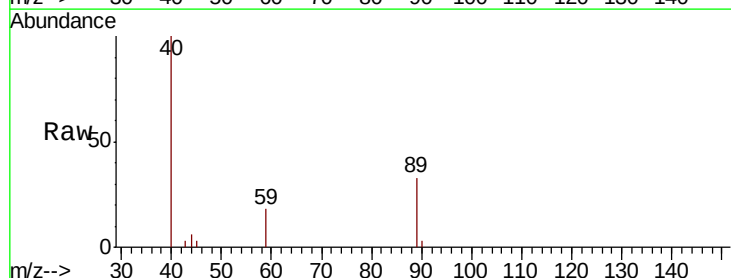
Acq: 17 Mar 2019 3:06

Tgt Ion: 59 Resp: 8253

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

3.99

2000

1500

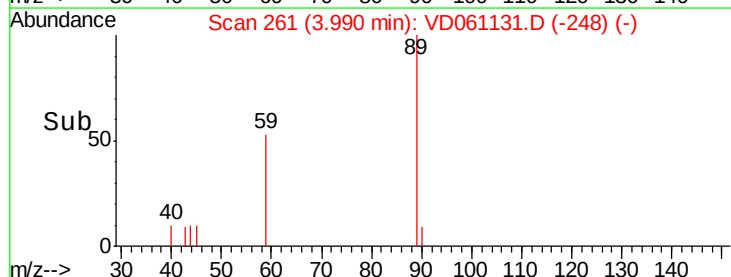
1000

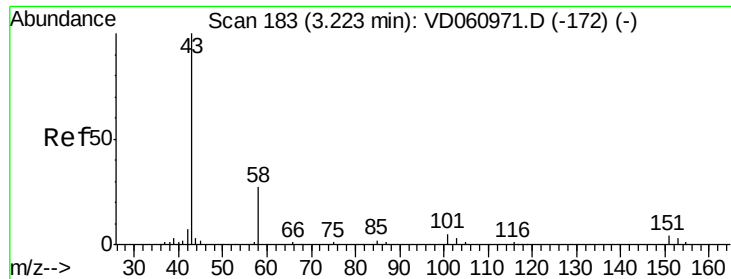
500

0

3.90 4.00 4.10

Time-->





#16

Acetone

Concen: 62.676 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD061131.D

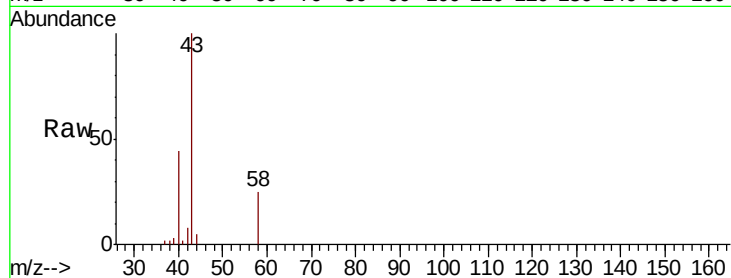
Acq: 17 Mar 2019 3:06

Tgt Ion: 43 Resp: 81014

Ion Ratio Lower Upper

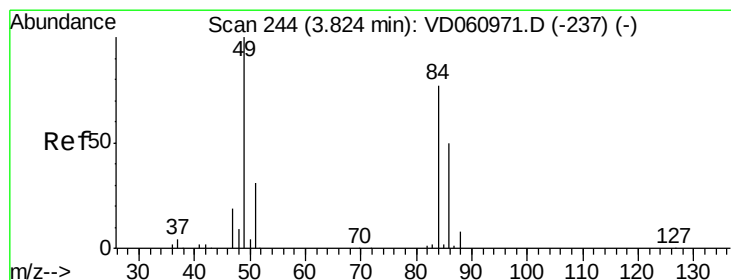
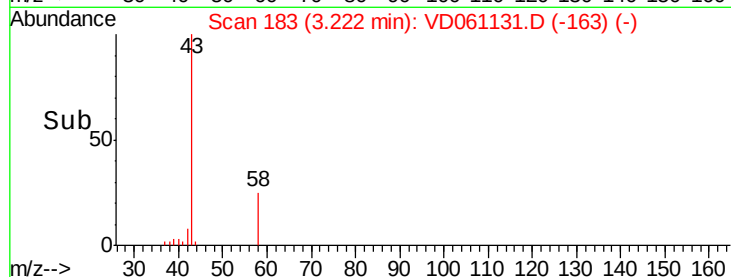
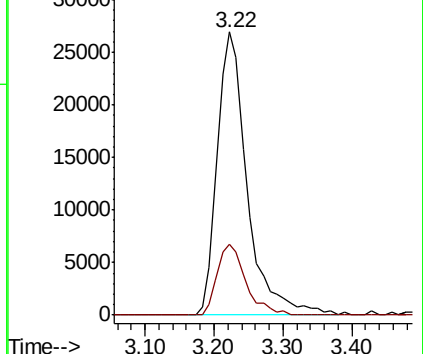
43 100

58 25.3 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 3.81 min Scan# 243

Delta R.T. -0.01 min

Lab File: VD061131.D

Acq: 17 Mar 2019 3:06

Tgt Ion: 84 Resp: 11622

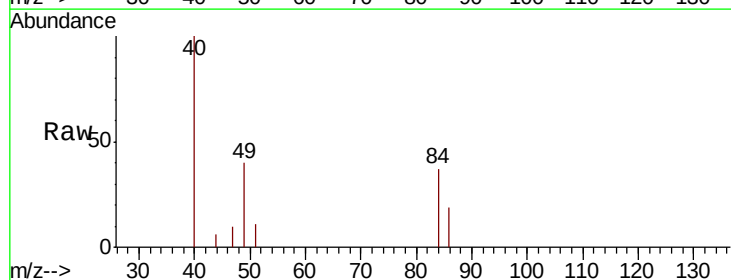
Ion Ratio Lower Upper

84 100

49 106.6 104.2 156.2

51 28.8 32.3 48.5#

86 51.2 52.3 78.5#

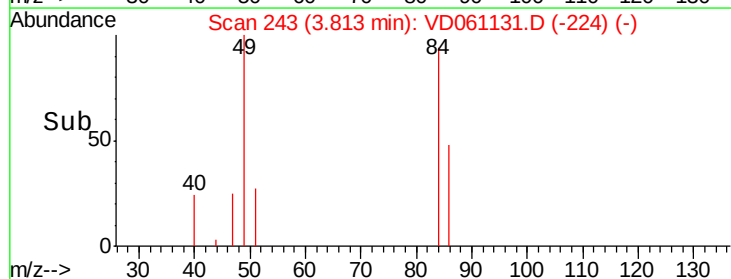
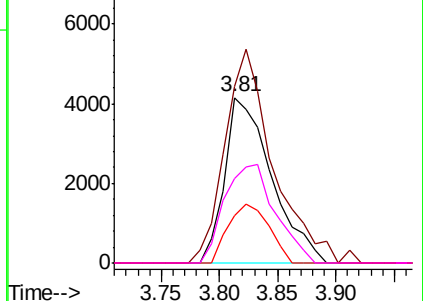


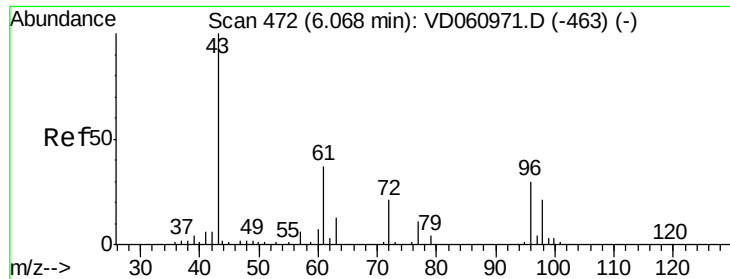
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.666 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.09 min

Lab File: VD061131.D

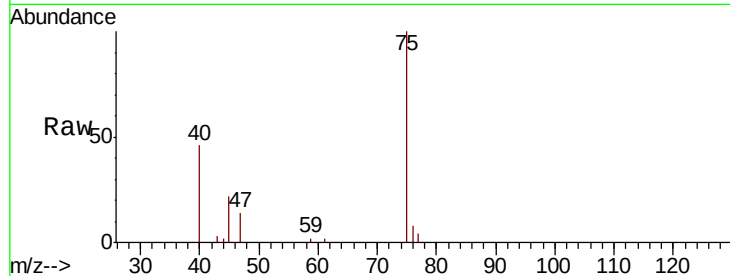
Acq: 17 Mar 2019 3:06

Tgt Ion: 43 Resp: 2443

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.16

800

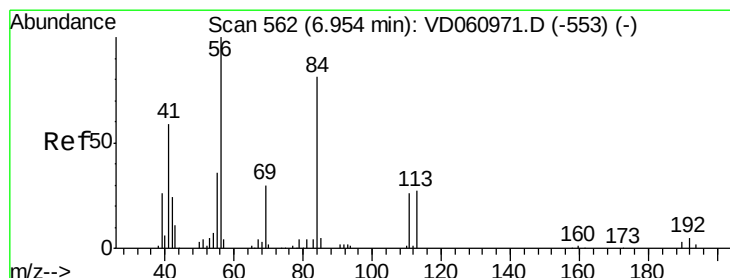
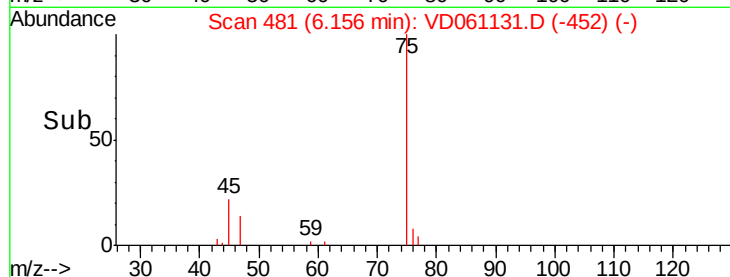
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 1.179 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.09 min

Lab File: VD061131.D

Acq: 17 Mar 2019 3:06

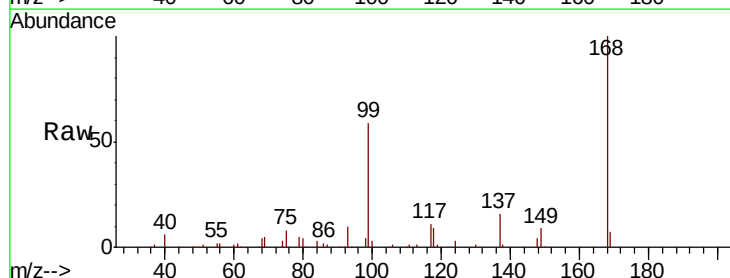
Tgt Ion: 56 Resp: 9428

Ion Ratio Lower Upper

56 100

69 246.1 24.0 36.0#

84 166.2 65.8 98.6#



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

12000

10000

8000

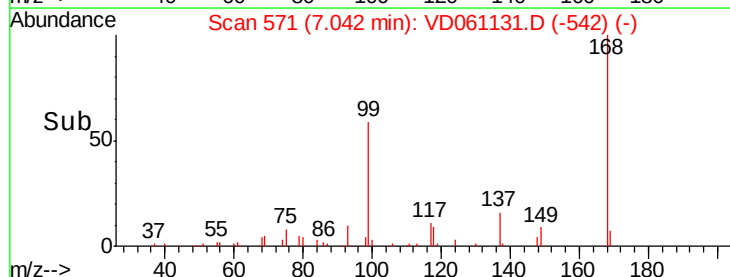
6000

4000

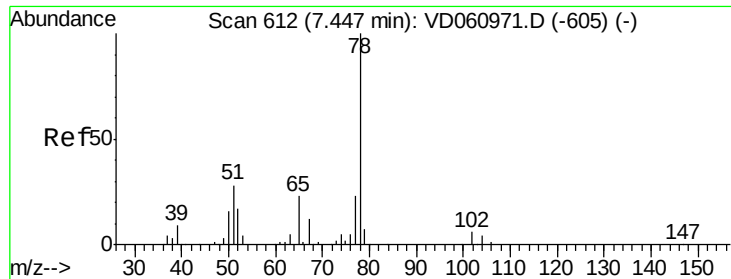
2000

0

Time-->

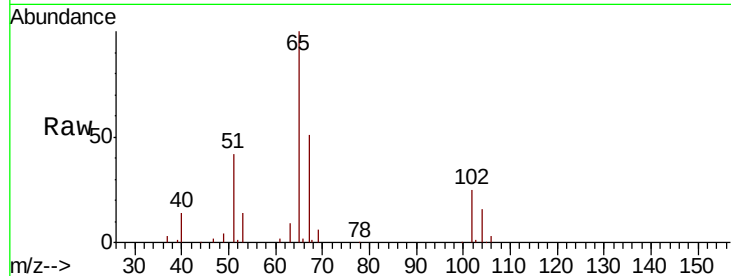


Time-->

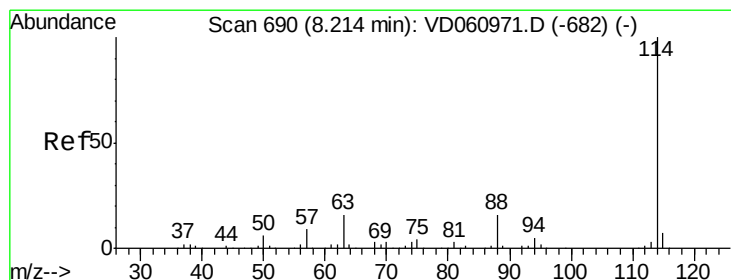
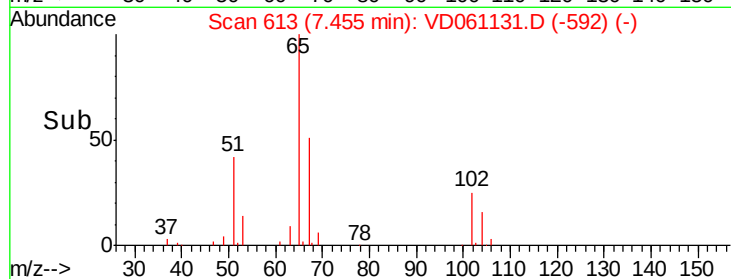
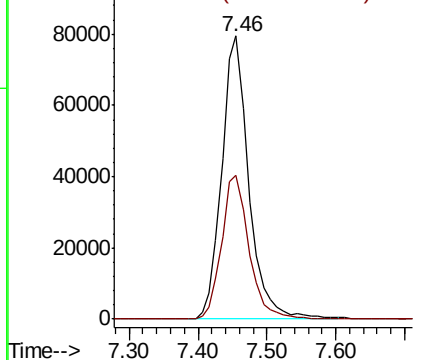


#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.01 min
 Lab File: VD061131.D
 Acq: 17 Mar 2019 3:06

Tgt Ion: 65 Resp: 215641
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 105.2

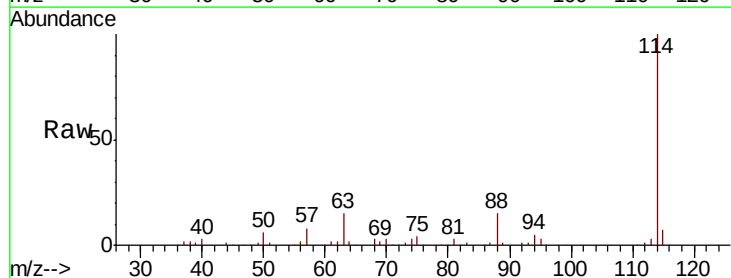


Abundance Ion 64.95 (64.65 to 65.65): VDC
 Ion 66.90 (66.60 to 67.60): VDC

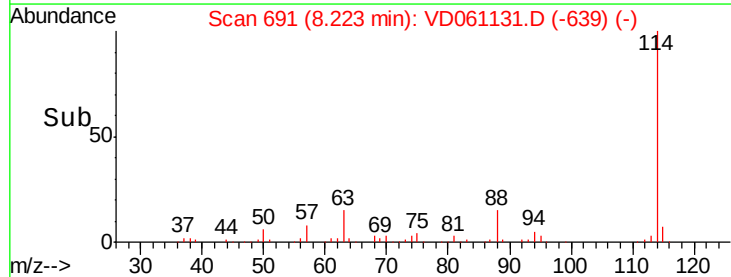
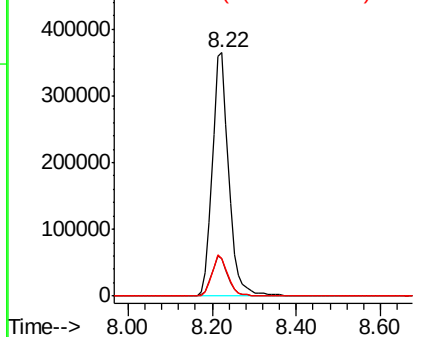


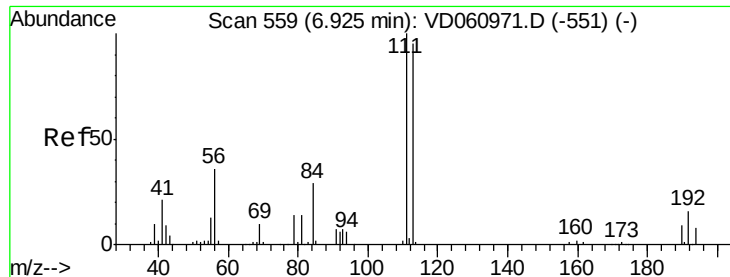
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD061131.D
 Acq: 17 Mar 2019 3:06

Tgt Ion: 114 Resp: 993688
 Ion Ratio Lower Upper
 114 100
 63 15.4 0.0 31.4
 88 15.3 0.0 33.0



Abundance Ion 114.00 (113.70 to 114.70): VDC
 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: 6.92 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD061131.D

Acq: 17 Mar 2019 3:06

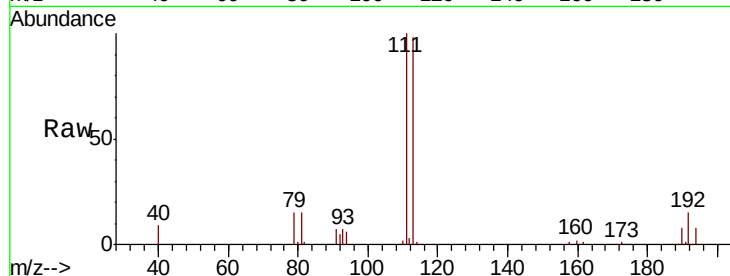
Tgt Ion: 113 Resp: 357213

Ion Ratio Lower Upper

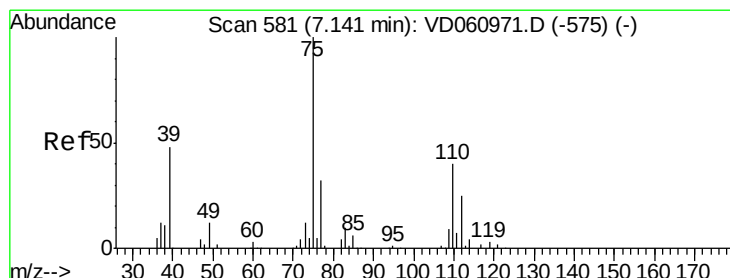
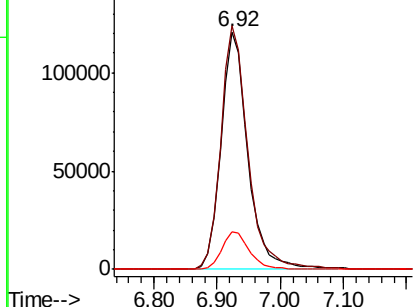
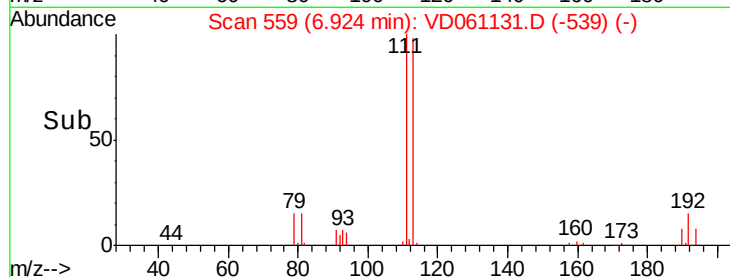
113 100

111 102.4 84.2 126.4

192 15.5 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



#36

1,1-Dichloropropene

Concen: 4.726 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD061131.D

Acq: 17 Mar 2019 3:06

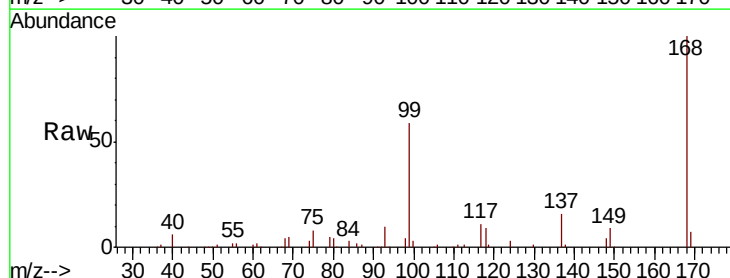
Tgt Ion: 75 Resp: 40482

Ion Ratio Lower Upper

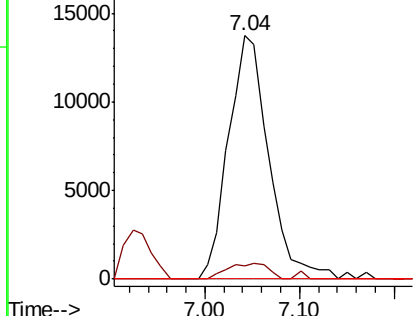
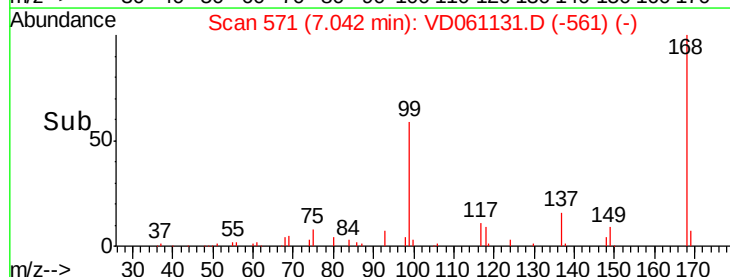
75 100

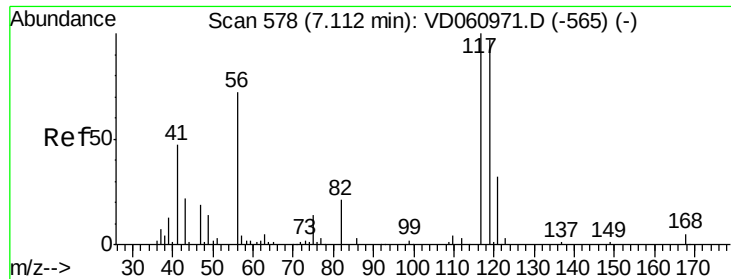
110 5.6 19.7 59.1#

77 0.0 24.7 37.1#



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





#38

Carbon Tetrachloride

Concen: 5.660 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061131.D

Acq: 17 Mar 2019 3:06

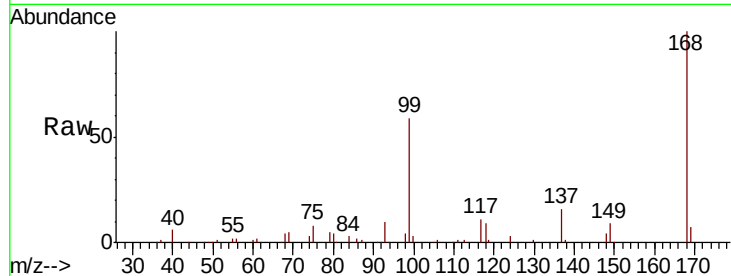
Tgt Ion: 117 Resp: 53401

Ion Ratio Lower Upper

117 100

119 5.6 77.8 116.8#

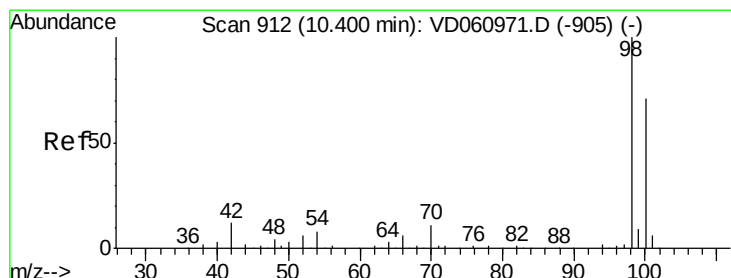
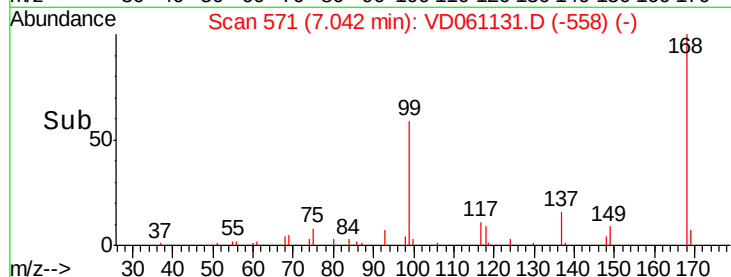
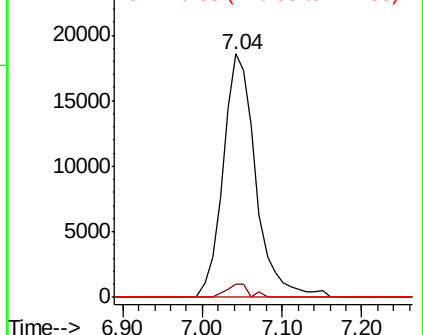
121 0.0 25.3 37.9#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061131.D

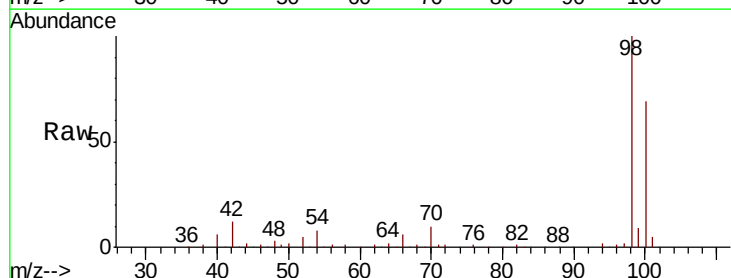
Acq: 17 Mar 2019 3:06

Tgt Ion: 98 Resp: 860777

Ion Ratio Lower Upper

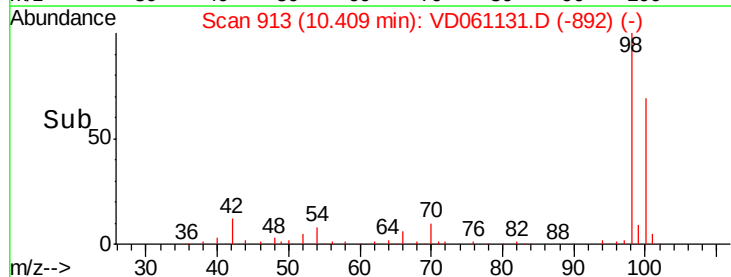
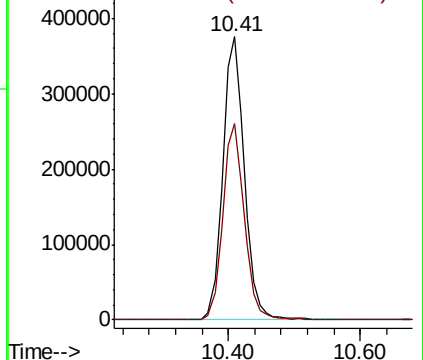
98 100

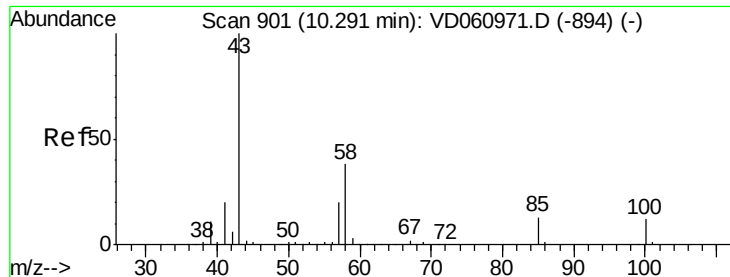
100 69.3 57.4 86.2



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: 1.053 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.12 min

Lab File: VD061131.D

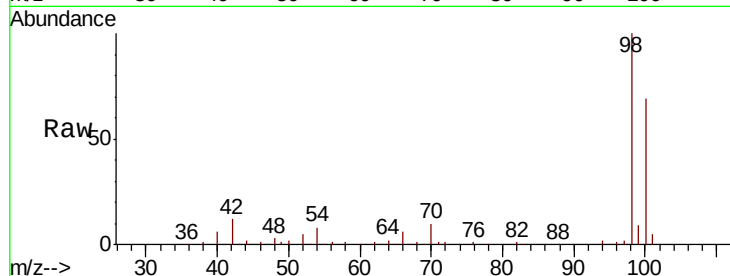
Acq: 17 Mar 2019 3:06

Tgt Ion: 43 Resp: 3591

Ion Ratio Lower Upper

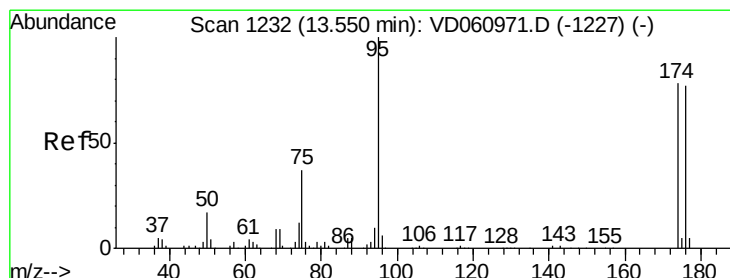
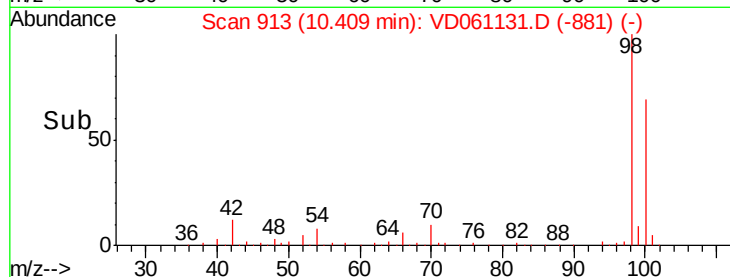
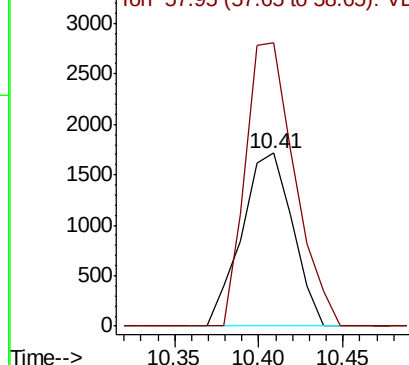
43 100

58 163.5 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061131.D

Acq: 17 Mar 2019 3:06

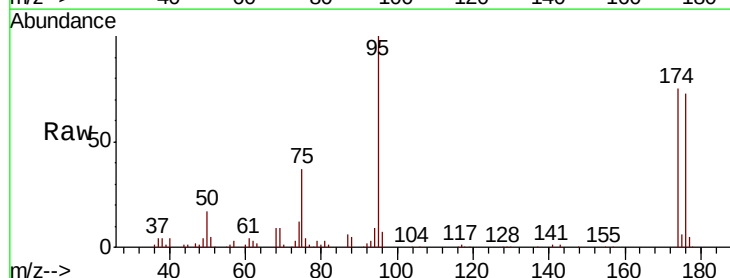
Tgt Ion: 95 Resp: 290733

Ion Ratio Lower Upper

95 100

174 75.3 0.0 155.6

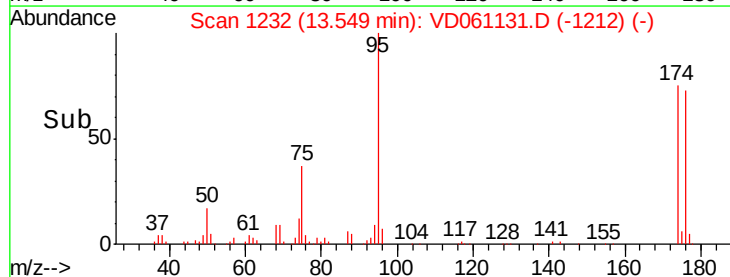
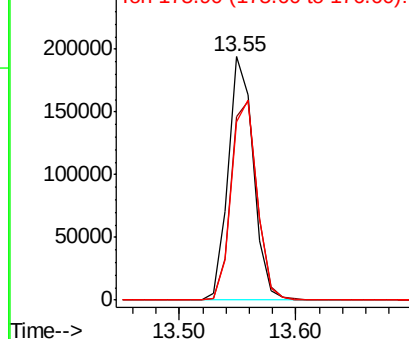
176 73.2 0.0 153.8

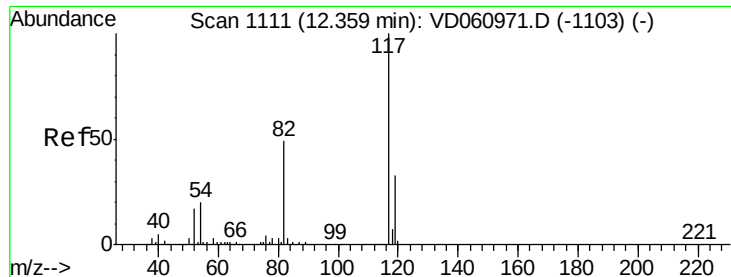


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

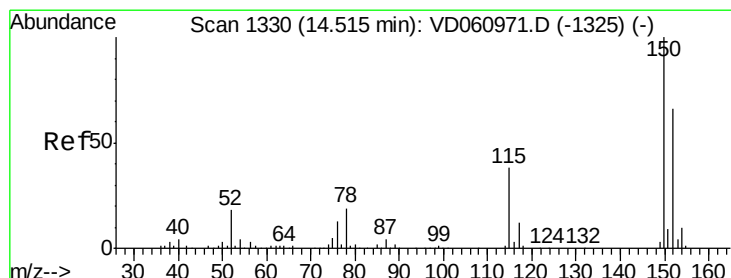
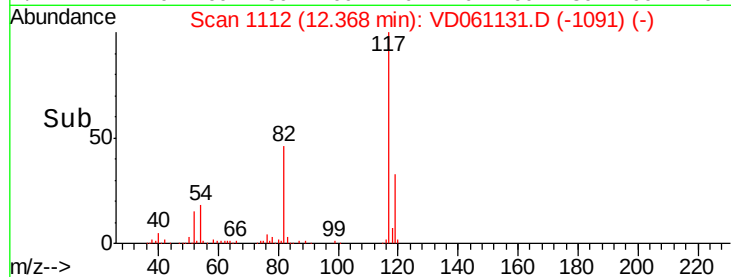
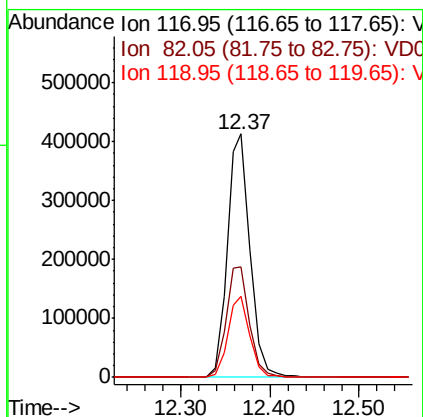
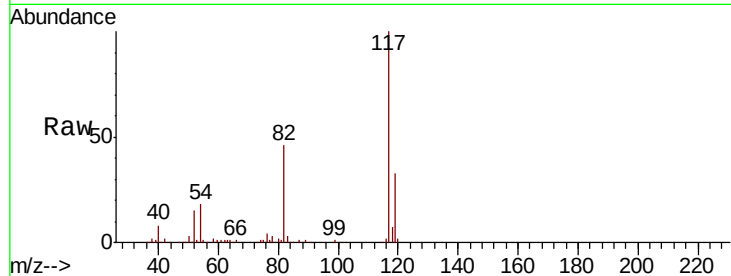
Ion 175.90 (175.60 to 176.60): V





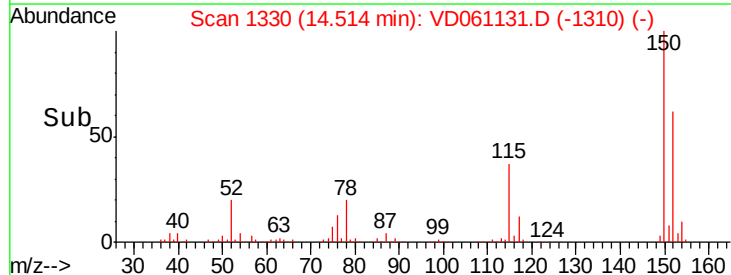
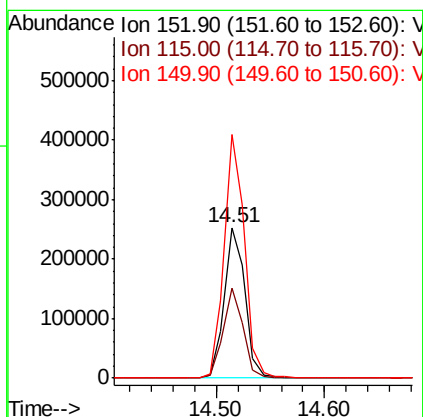
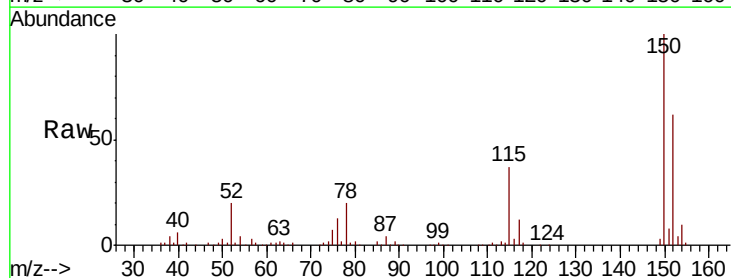
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061131.D
Acq: 17 Mar 2019 3:06

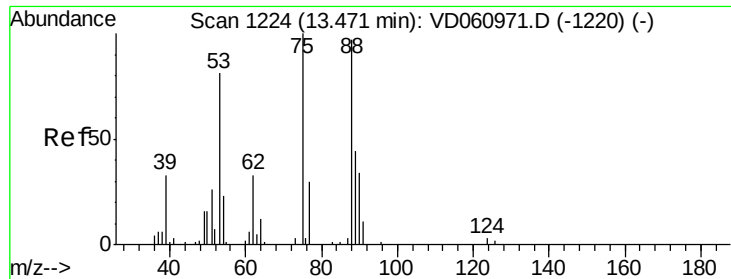
Tgt Ion:117 Resp: 742071
Ion Ratio Lower Upper
117 100
82 45.6 38.9 58.3
119 33.4 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061131.D
Acq: 17 Mar 2019 3:06

Tgt Ion:152 Resp: 335386
Ion Ratio Lower Upper
152 100
115 59.8 28.6 85.9
150 161.6 0.0 310.6





#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.564 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.08 min
 Lab File: VD061131.D
 Acq: 17 Mar 2019 3:06

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

