

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD031619\
 Data File : VD061106.D
 Acq On : 16 Mar 2019 13:46
 Operator : VA/AP
 Sample : K1921-01
 Misc : 4.05g/5ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

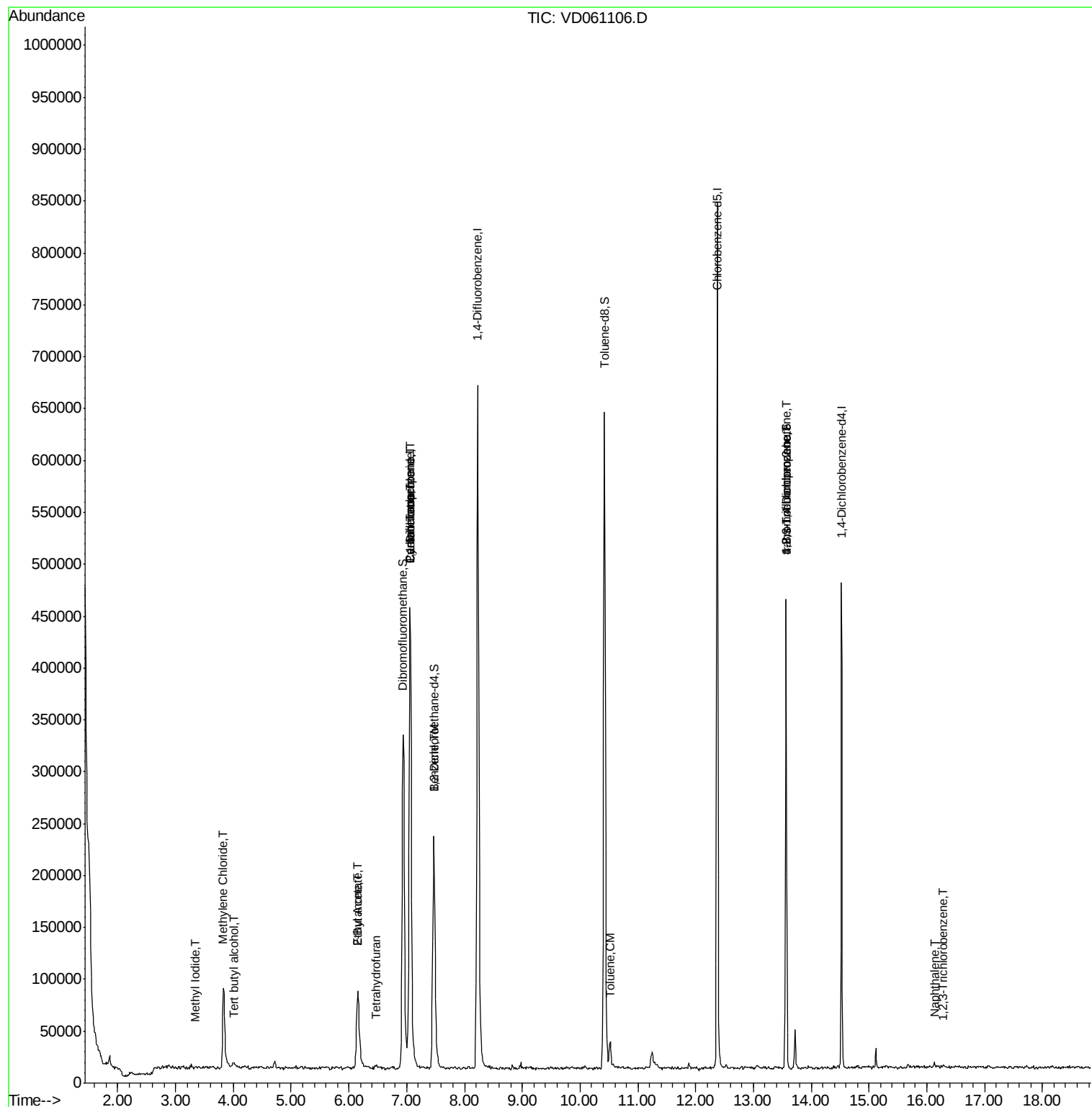
Quant Time: Mar 18 02:26:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	472667	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	819336	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	507457	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	115215	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.47	65	184674	46.94	ug/l	0.02
Spiked Amount	50.000		Recovery	=	93.88%	
35) Dibromofluoromethane	6.94	113	317616	52.23	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.46%	
50) Toluene-d8	10.42	98	584995	38.31	ug/l	0.02
Spiked Amount	50.000		Recovery	=	76.62%	
62) 4-Bromofluorobenzene	13.56	95	140219	23.67	ug/l	0.01
Spiked Amount	50.000		Recovery	=	47.34%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	3.36	142	2174	3.190	ug/l #	88
11) Tert butyl alcohol	4.00	59	5274	21.056	ug/l #	75
20) Methylene Chloride	3.84	84	56728	7.052	ug/l	89
25) 2-Butanone	6.15	43	4799	3.759	ug/l #	55
29) Tetrahydrofuran	6.48	42	1907	2.751	ug/l #	58
31) Cyclohexane	7.06	56	8078	1.160	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	34475	4.881	ug/l #	44
37) Ethyl Acetate	6.15	43	4799	1.448	ug/l #	1
38) Carbon Tetrachloride	7.06	117	45127	5.801	ug/l #	14
40) Benzene	7.47	78	23656	1.340	ug/l	96
52) Toluene	10.52	92	13477	1.228	ug/l	97
76) 1,2,3-Trichloropropane	13.56	75	46213	27.880	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.56	75	49804	101.914	ug/l #	17
95) Naphthalene	16.13	128	4697	2.112	ug/l #	81
96) 1,2,3-Trichlorobenzene	16.27	180	744	1.029	ug/l #	86

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

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QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061106.D

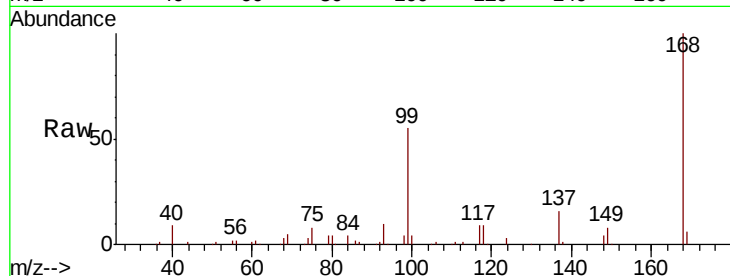
Acq: 16 Mar 2019 13:46

Tgt Ion:168 Resp: 472667

Ion Ratio Lower Upper

168 100

99 54.8 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.06

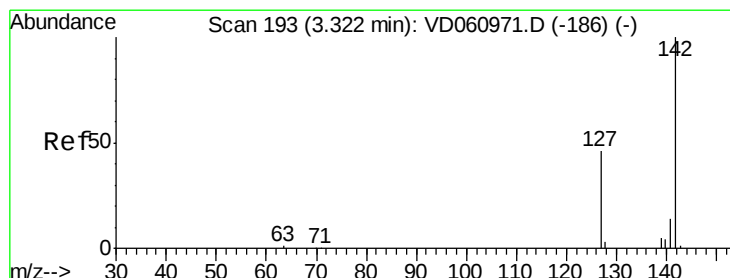
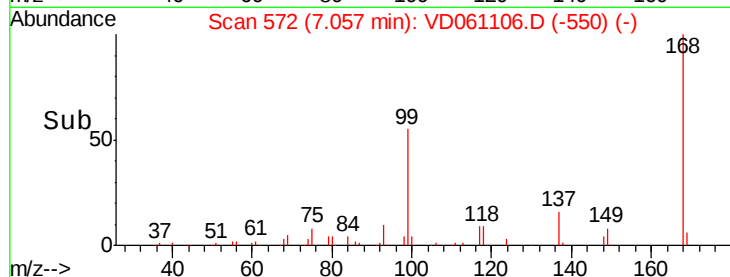
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#10

Methyl Iodide

Concen: 3.190 ug/l

RT: 3.36 min Scan# 196

Delta R.T. 0.03 min

Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

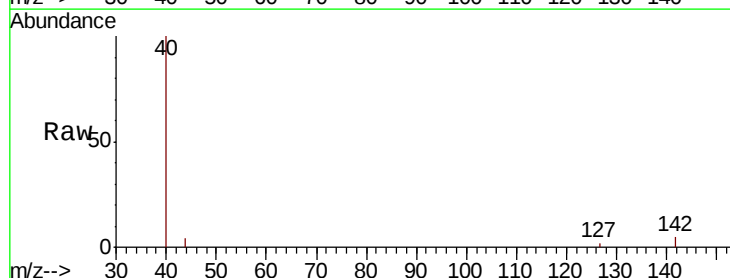
Tgt Ion:142 Resp: 2174

Ion Ratio Lower Upper

142 100

127 49.7 36.8 55.2

141 0.0 11.2 16.8#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.36

800

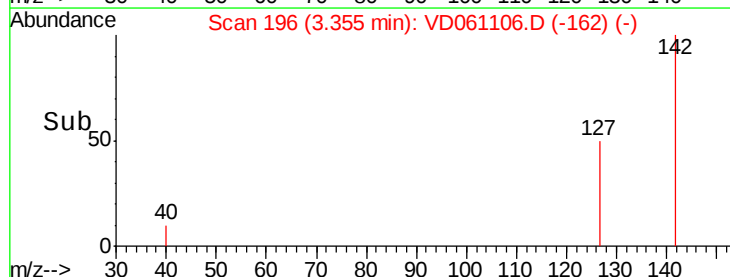
600

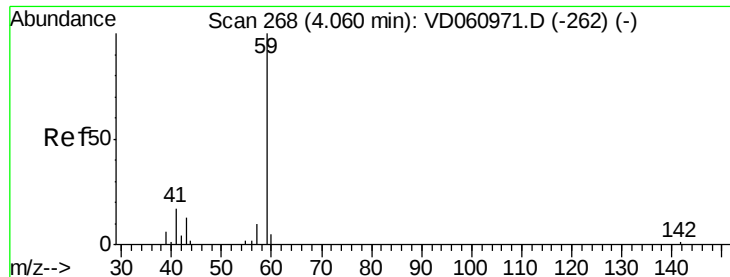
400

200

0

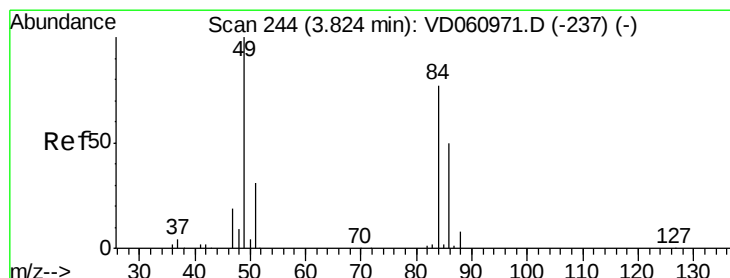
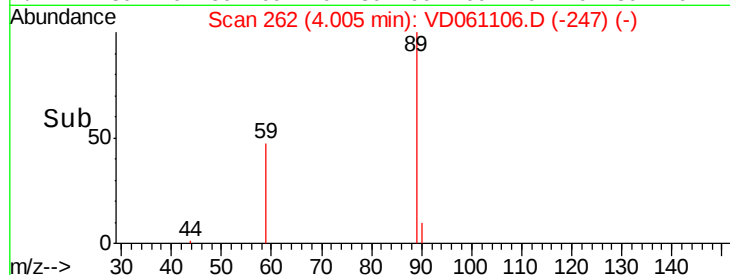
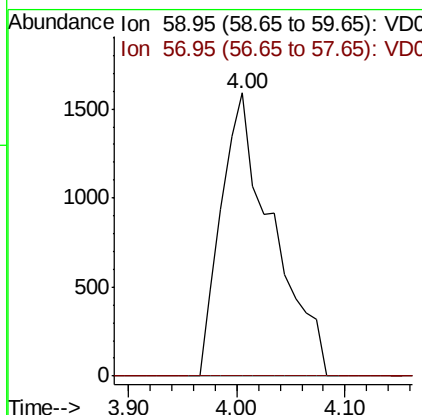
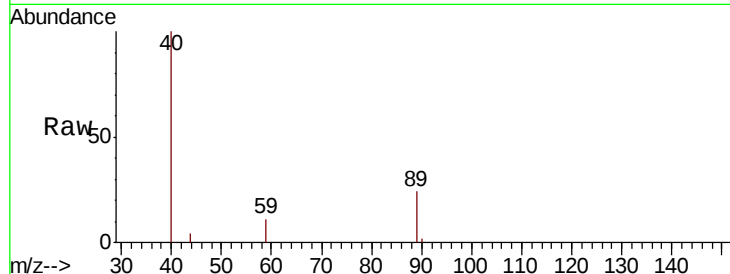
Time--> 3.25 3.30 3.35 3.40 3.45





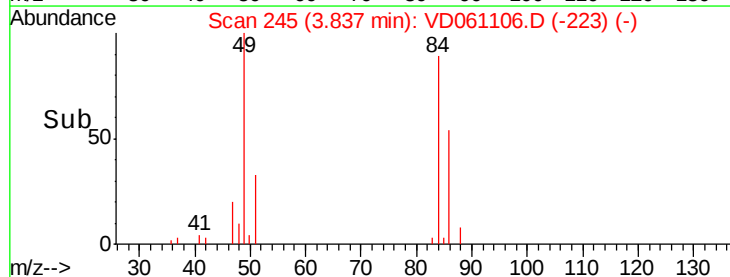
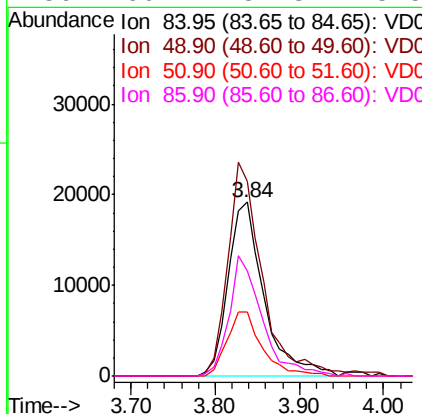
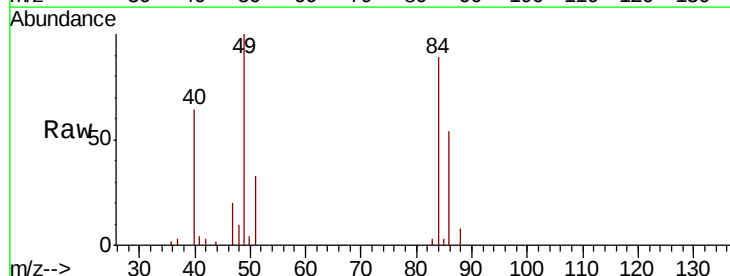
#11
Tert butyl alcohol
Concen: 21.056 ug/l
RT: 4.00 min Scan# 262
Delta R.T. -0.06 min
Lab File: VD061106.D
Acq: 16 Mar 2019 13:46

Tgt Ion: 59 Resp: 5274
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#



#20
Methylene Chloride
Concen: 7.052 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.01 min
Lab File: VD061106.D
Acq: 16 Mar 2019 13:46

Tgt Ion: 84 Resp: 56728
Ion Ratio Lower Upper
84 100
49 112.1 104.2 156.2
51 36.5 32.3 48.5
86 60.1 52.3 78.5





#25

2-Butanone

Concen: 3.759 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.08 min

Lab File: VD061106.D

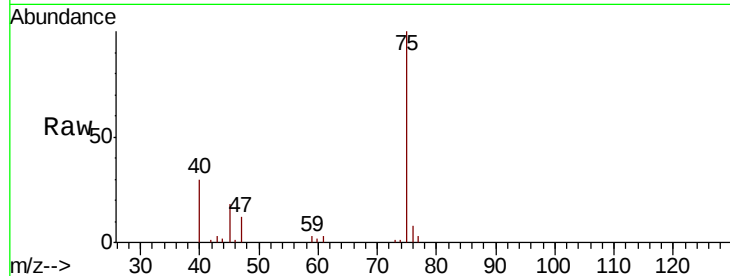
Acq: 16 Mar 2019 13:46

Tgt Ion: 43 Resp: 4799

Ion Ratio Lower Upper

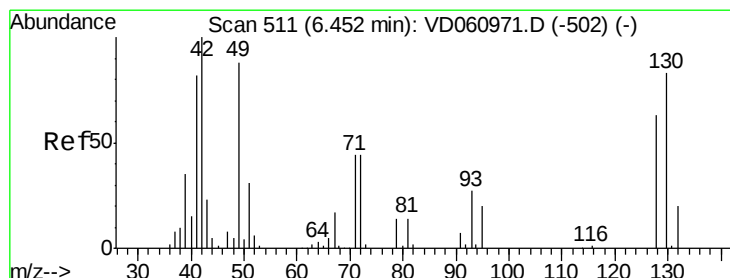
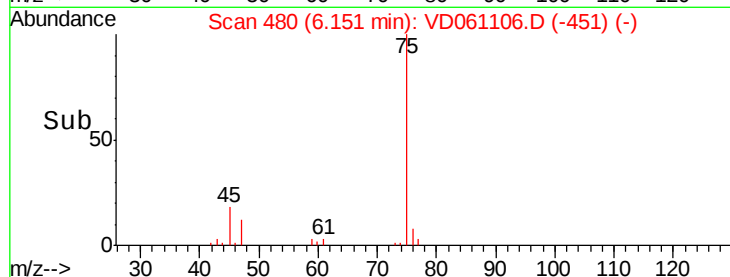
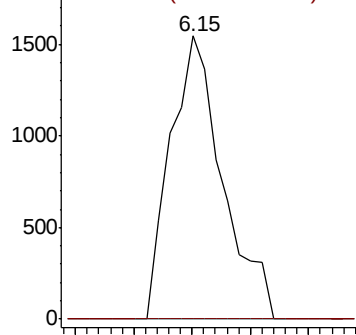
43 100

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



#29

Tetrahydrofuran

Concen: 2.751 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.02 min

Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

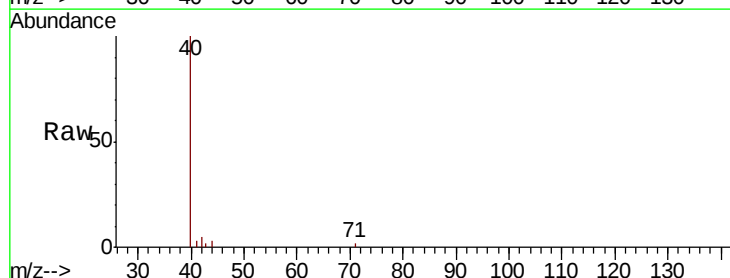
Tgt Ion: 42 Resp: 1907

Ion Ratio Lower Upper

42 100

72 21.2 34.5 51.7#

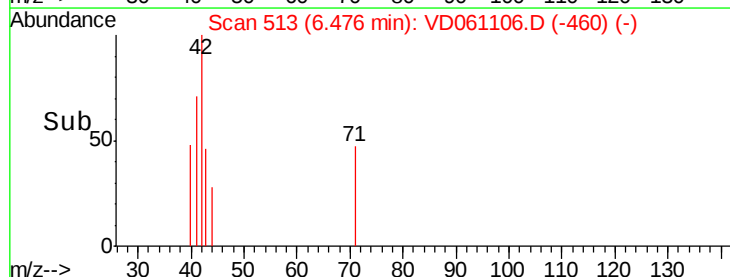
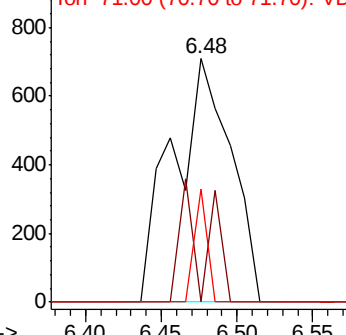
71 10.2 33.8 50.6#

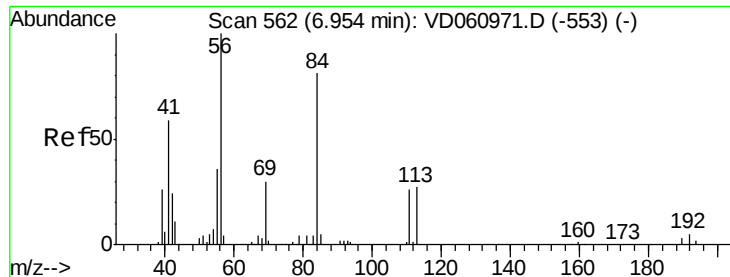


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.160 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.10 min

Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

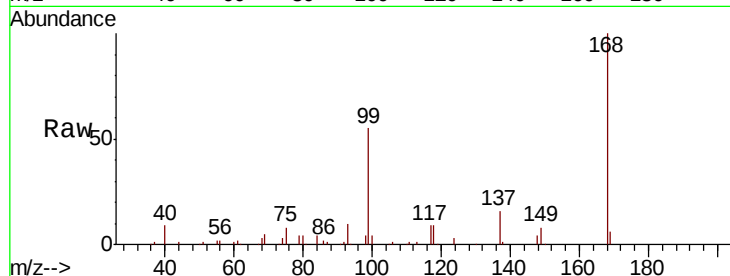
Tgt Ion: 56 Resp: 8078

Ion Ratio Lower Upper

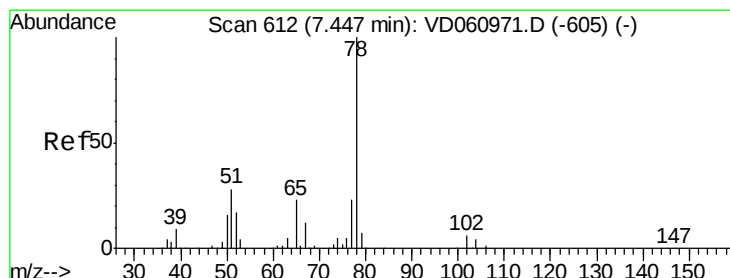
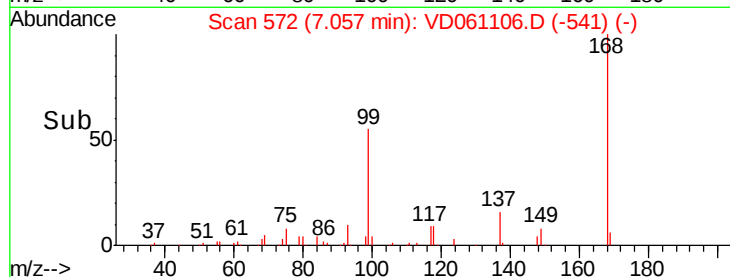
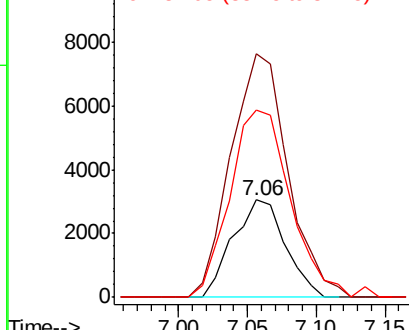
56 100

69 249.9 24.0 36.0#

84 192.3 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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD061106.D

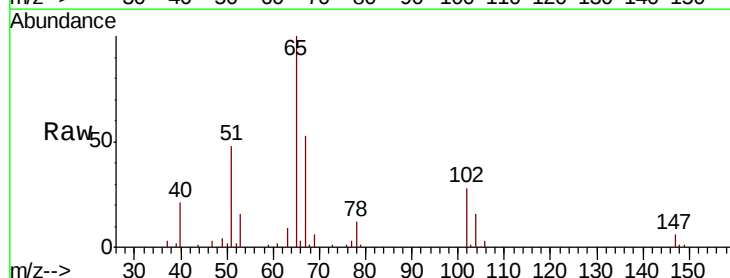
Acq: 16 Mar 2019 13:46

Tgt Ion: 65 Resp: 184674

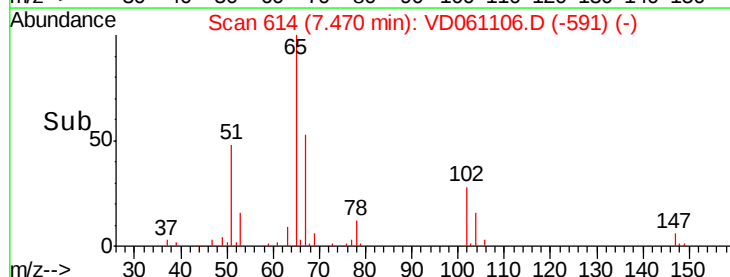
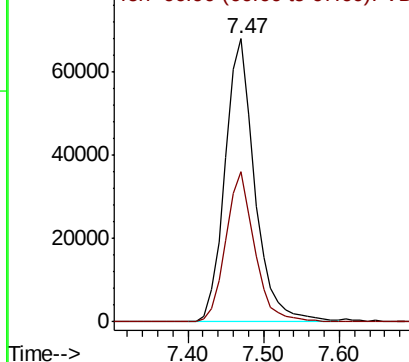
Ion Ratio Lower Upper

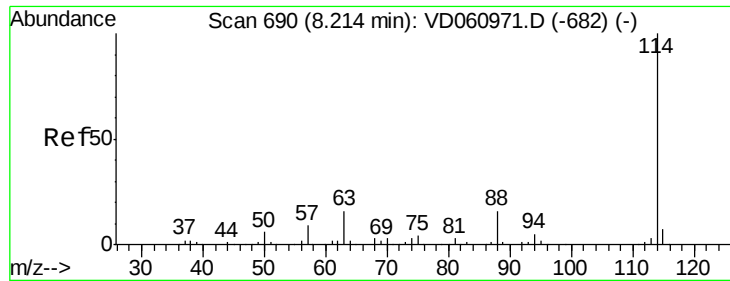
65 100

67 53.0 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: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

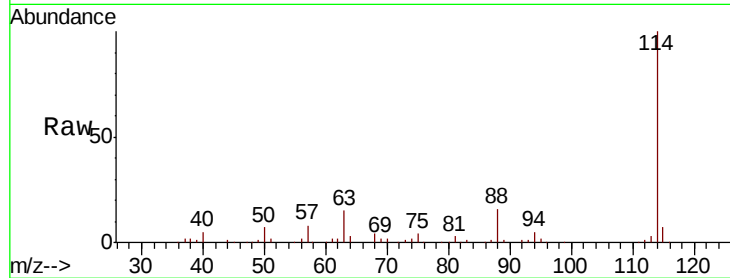
Tgt Ion:114 Resp: 819336

Ion Ratio Lower Upper

114 100

63 15.5 0.0 31.4

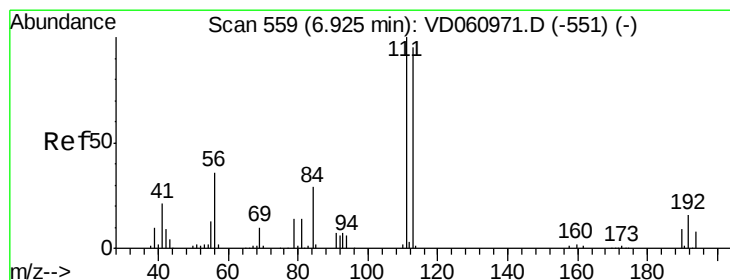
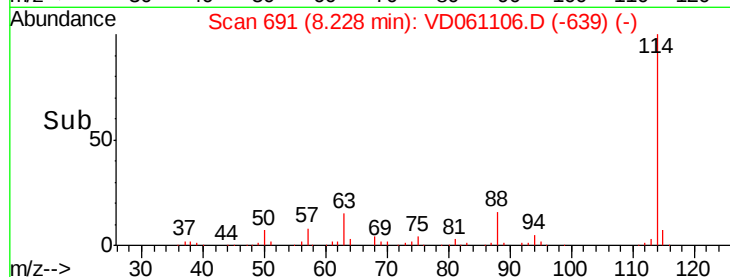
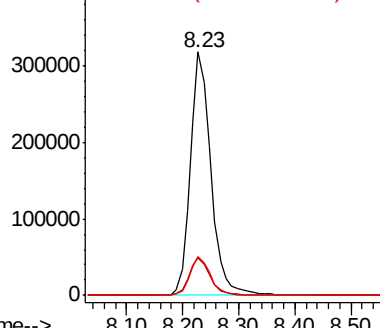
88 16.1 0.0 33.0



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: 6.94 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

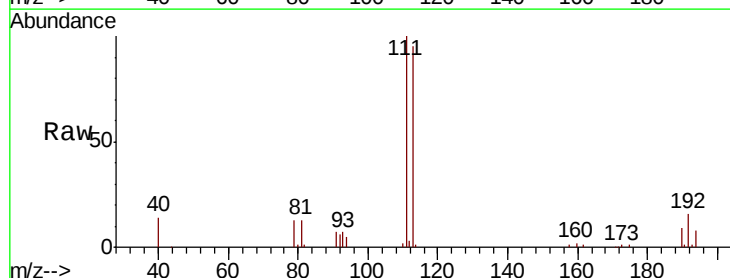
Tgt Ion:113 Resp: 317616

Ion Ratio Lower Upper

113 100

111 105.2 84.2 126.4

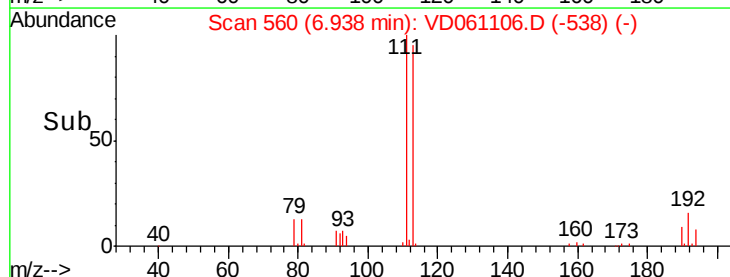
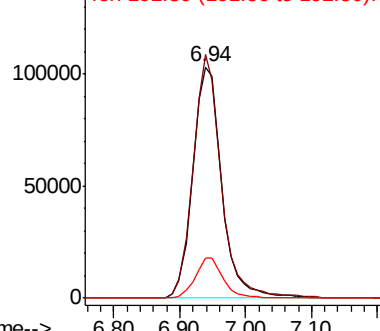
192 17.1 13.1 19.7

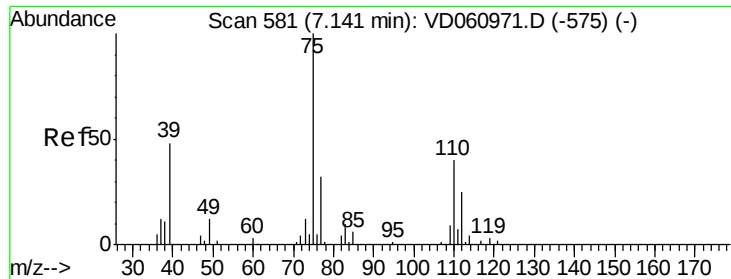


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.881 ug/l

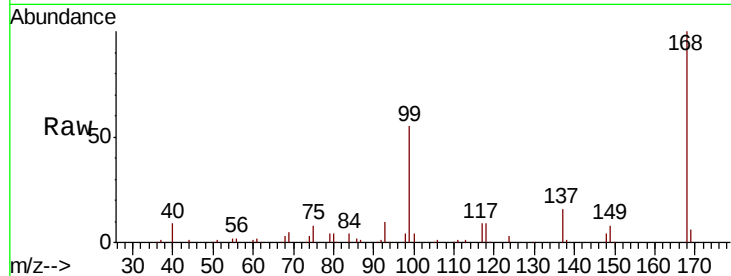
RT: 7.06 min Scan# 572

Delta R.T. -0.08 min

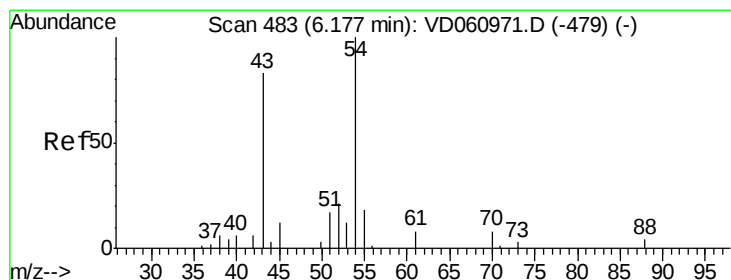
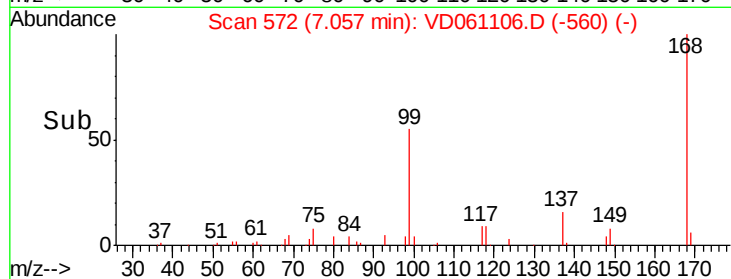
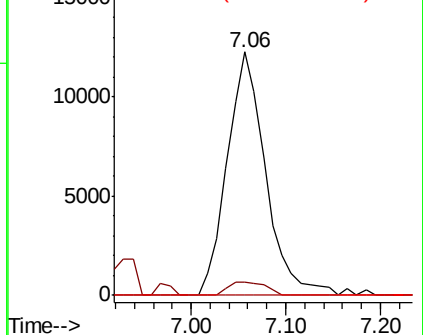
Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

Tgt Ion:	75	Resp:	34475
Ion	Ratio	Lower	Upper
75	100		
110	5.3	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): VDC
Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.448 ug/l

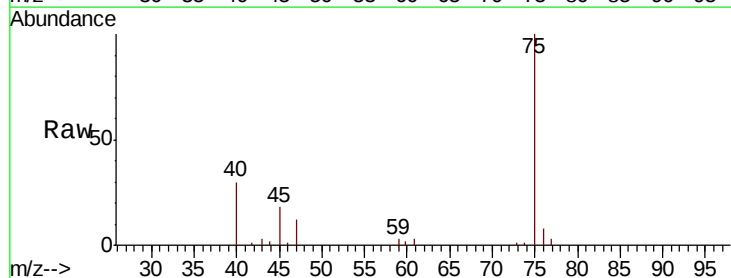
RT: 6.15 min Scan# 480

Delta R.T. -0.03 min

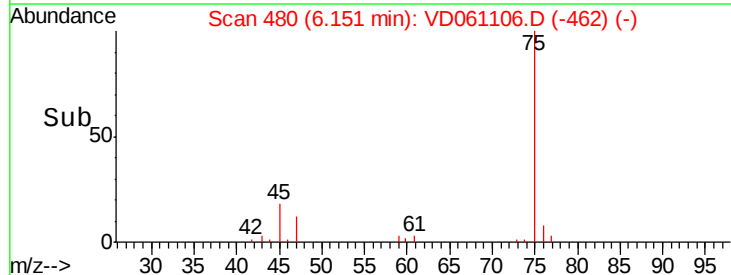
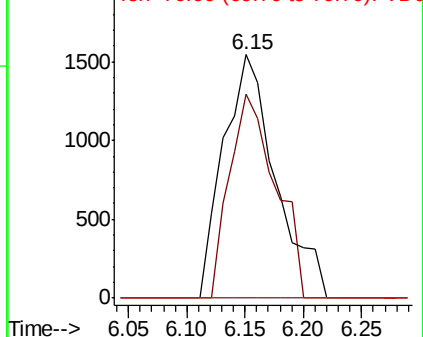
Lab File: VD061106.D

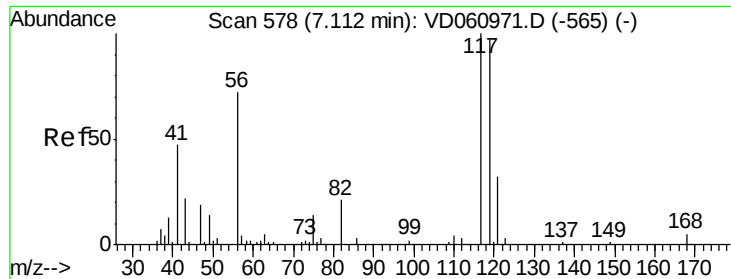
Acq: 16 Mar 2019 13:46

Tgt Ion:	43	Resp:	4799
Ion	Ratio	Lower	Upper
43	100		
61	83.9	13.7	20.5#
70	0.0	7.1	10.7#



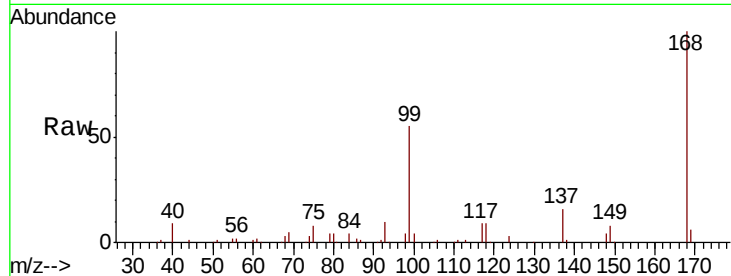
Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC



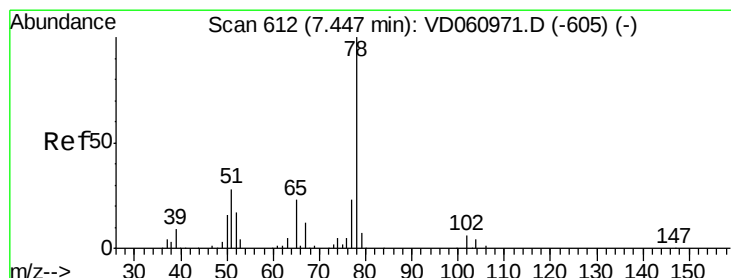
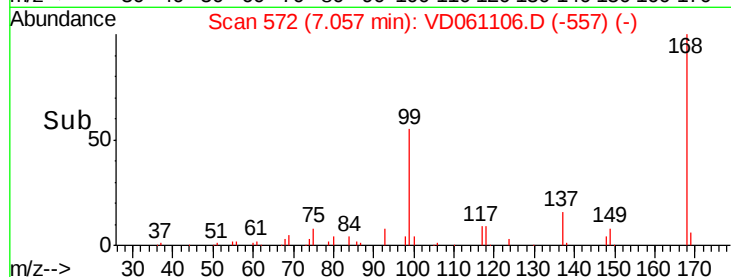
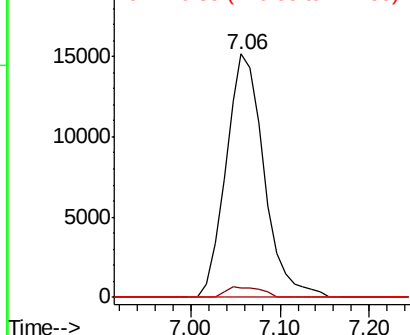


#38
Carbon Tetrachloride
Concen: 5.801 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.06 min
Lab File: VD061106.D
Acq: 16 Mar 2019 13:46

Tgt Ion: 117 Resp: 45127
Ion Ratio Lower Upper
117 100
119 3.9 77.8 116.8#
121 0.0 25.3 37.9#

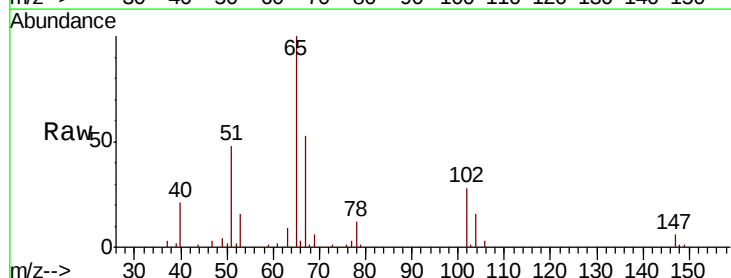


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

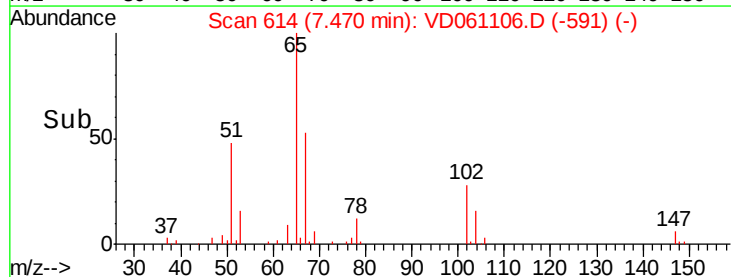
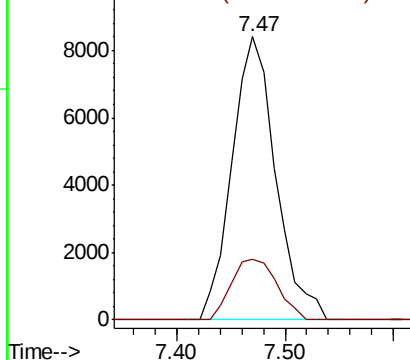


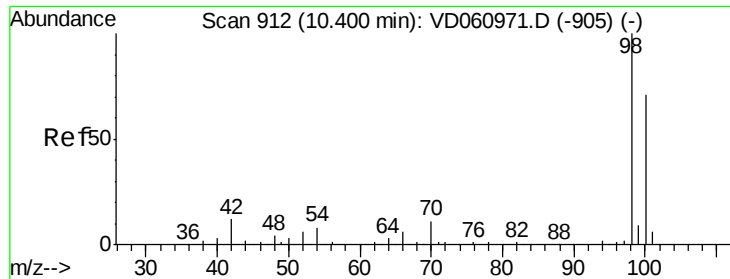
#40
Benzene
Concen: 1.340 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.02 min
Lab File: VD061106.D
Acq: 16 Mar 2019 13:46

Tgt Ion: 78 Resp: 23656
Ion Ratio Lower Upper
78 100
77 21.7 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD061106.D

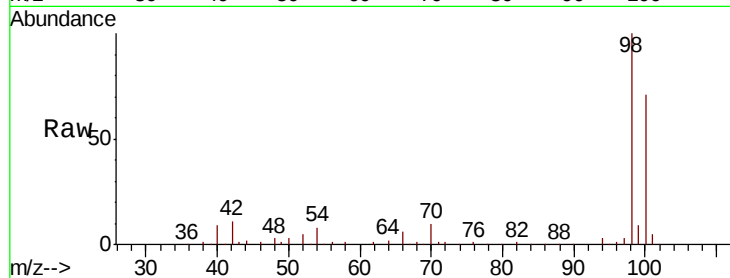
Acq: 16 Mar 2019 13:46

Tgt Ion: 98 Resp: 584995

Ion Ratio Lower Upper

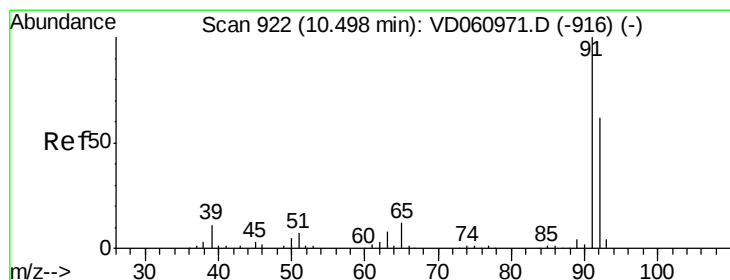
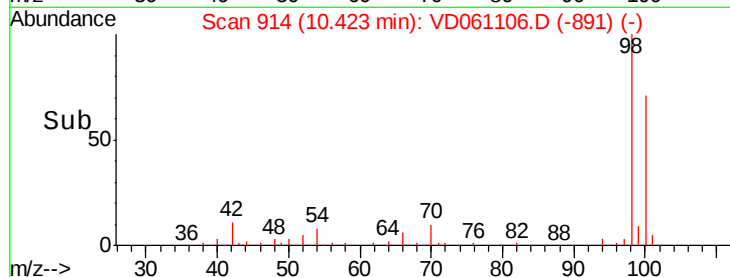
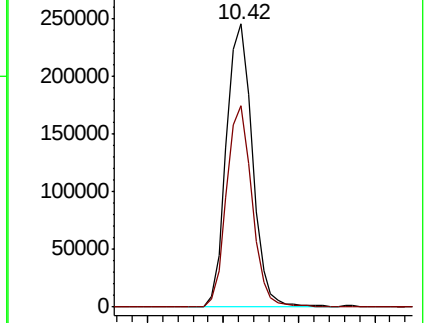
98 100

100 71.2 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 1.228 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD061106.D

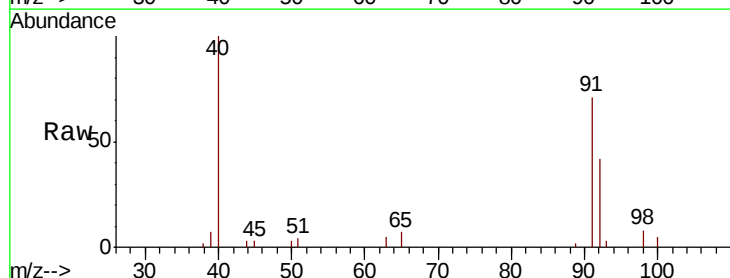
Acq: 16 Mar 2019 13:46

Tgt Ion: 92 Resp: 13477

Ion Ratio Lower Upper

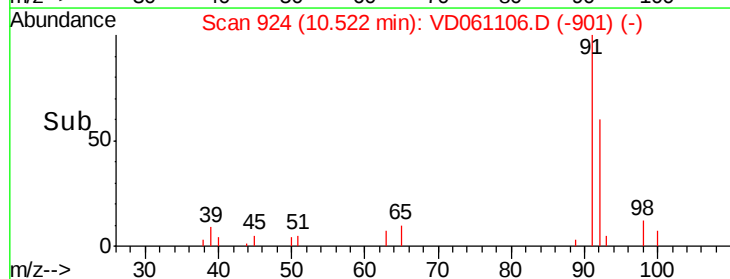
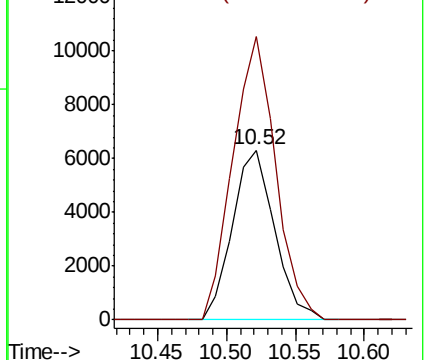
92 100

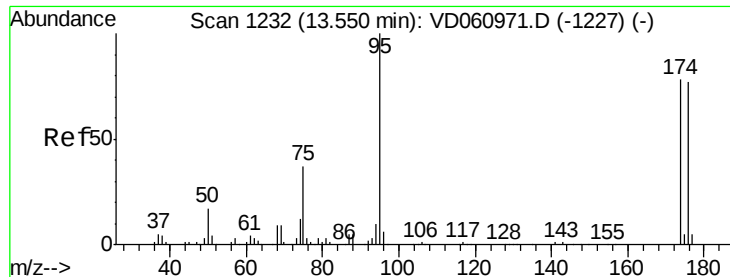
91 166.8 129.8 194.8



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: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

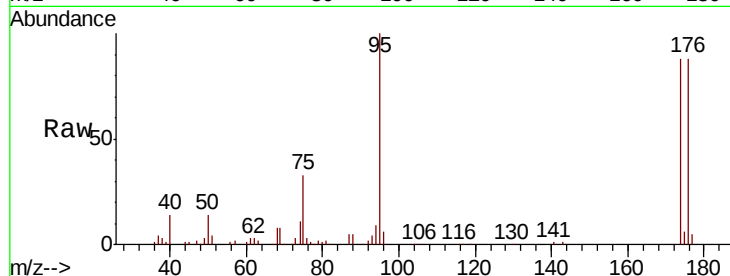
Tgt Ion: 95 Resp: 140219

Ion Ratio Lower Upper

95 100

174 88.0 0.0 155.6

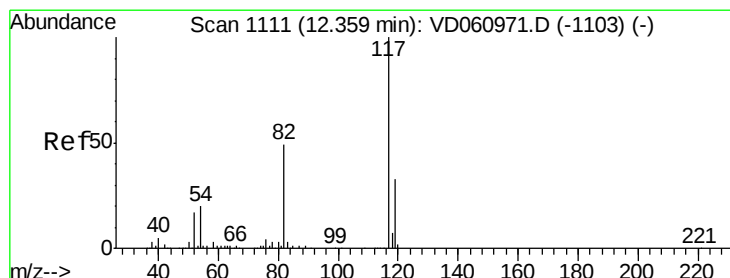
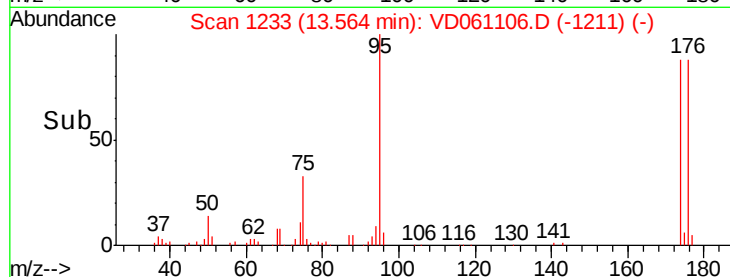
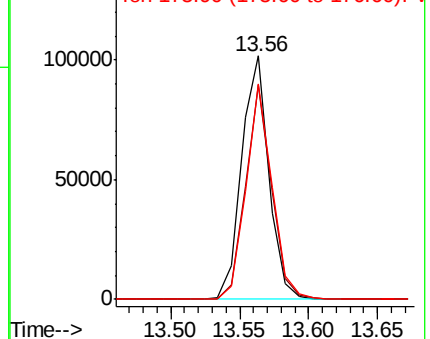
176 88.4 0.0 153.8



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: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

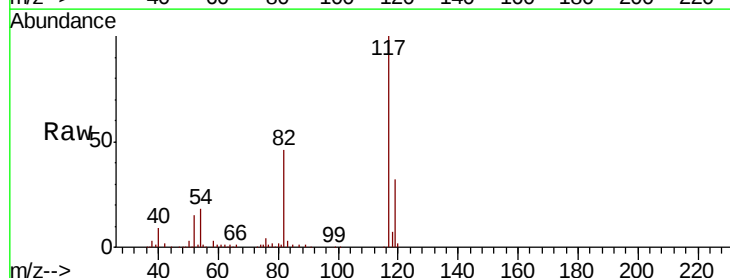
Tgt Ion: 117 Resp: 507457

Ion Ratio Lower Upper

117 100

82 46.1 38.9 58.3

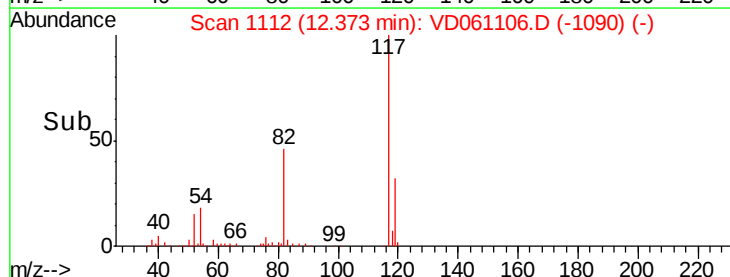
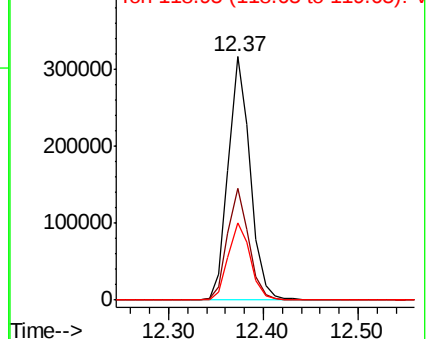
119 31.6 26.6 39.8

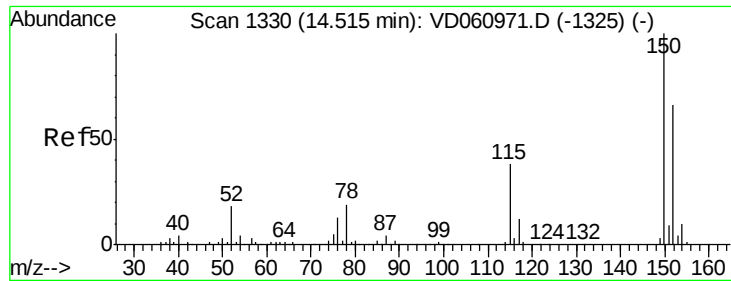


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

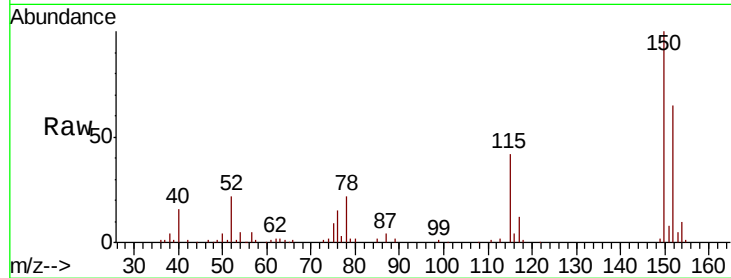




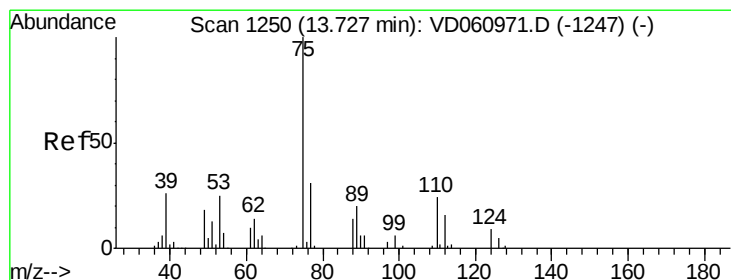
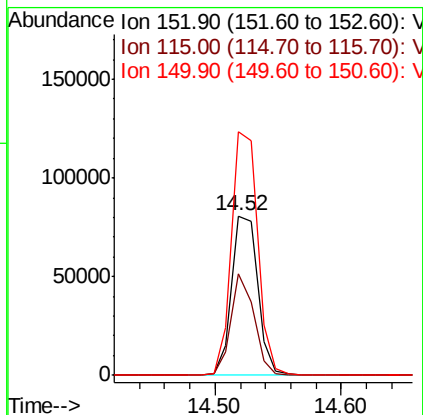
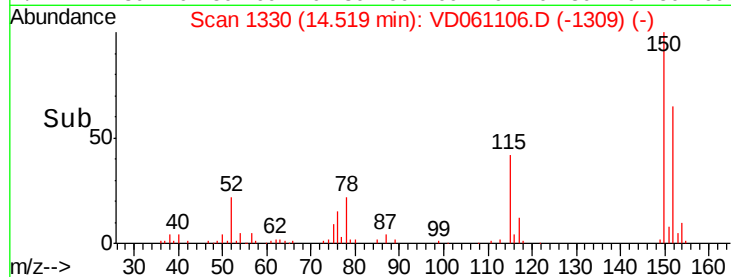
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061106.D
Acq: 16 Mar 2019 13:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.5	28.6	85.9
150	152.7	0.0	310.6



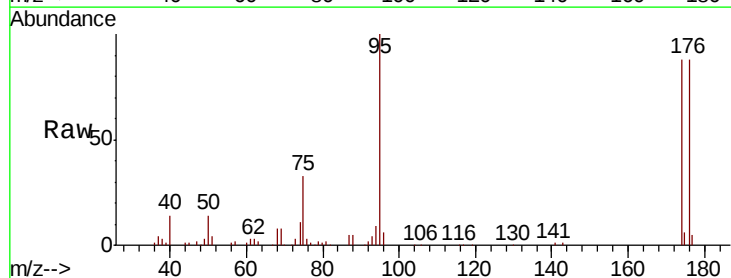
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



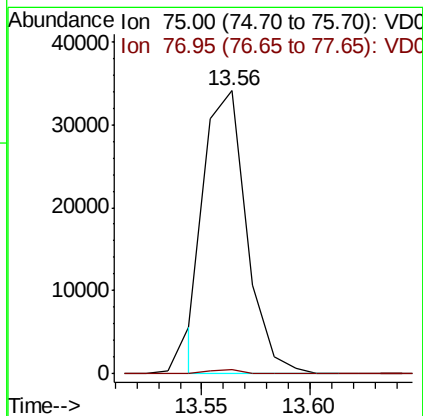
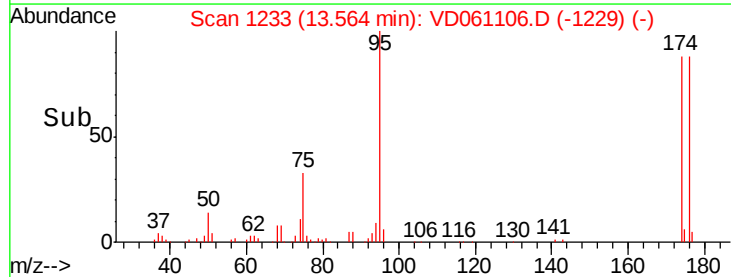
#76

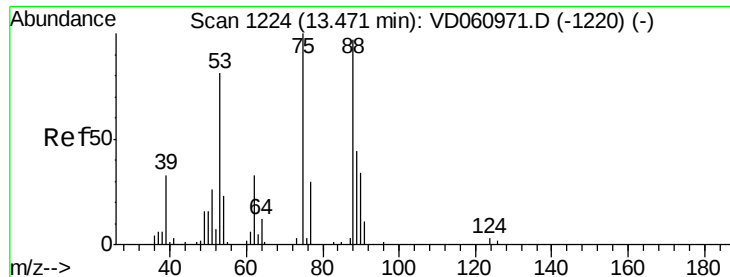
1,2,3-Trichloropropane
Concen: 27.880 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.16 min
Lab File: VD061106.D
Acq: 16 Mar 2019 13:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	16.6	49.7



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: 101.914 ug/l

RT: 13.56 min Scan# 1233

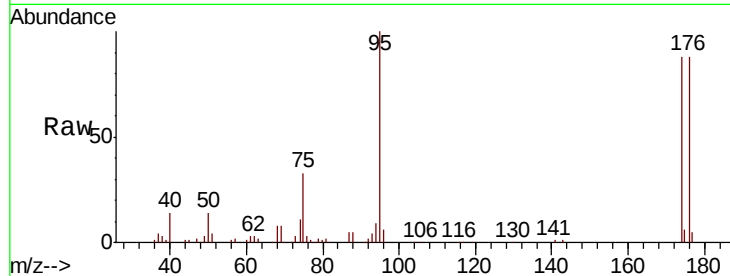
Delta R.T. 0.09 min

Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

Tgt Ion: 75 Resp: 49804

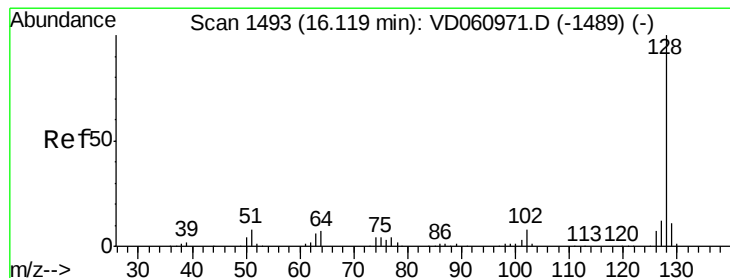
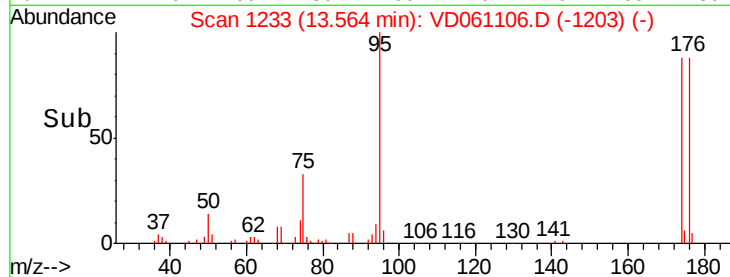
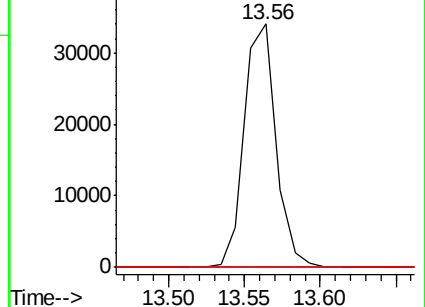
Ion	Ratio	Lower	Upper
75	100		
53	0.0	64.4	96.6#
89	0.0	34.8	52.2#



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: 2.112 ug/l

RT: 16.13 min Scan# 1494

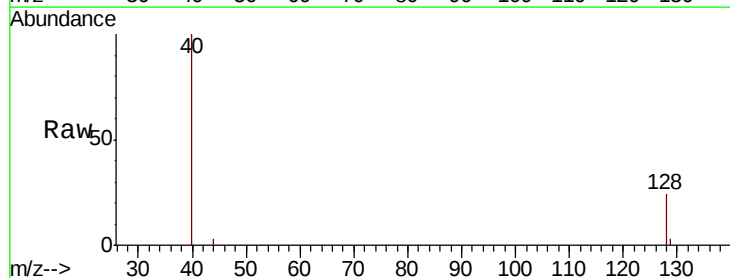
Delta R.T. 0.01 min

Lab File: VD061106.D

Acq: 16 Mar 2019 13:46

Tgt Ion: 128 Resp: 4697

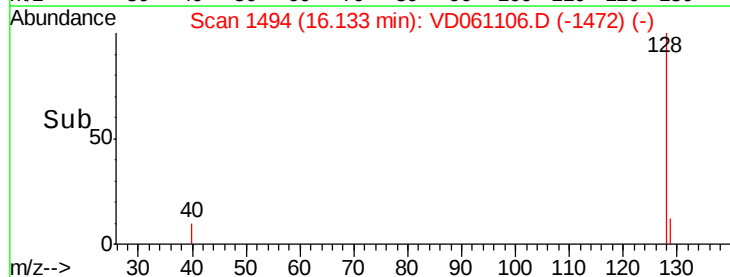
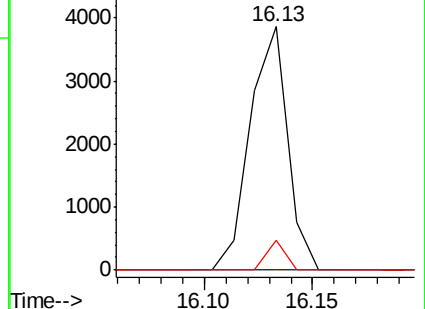
Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.8	14.8#
129	12.5	8.5	12.7

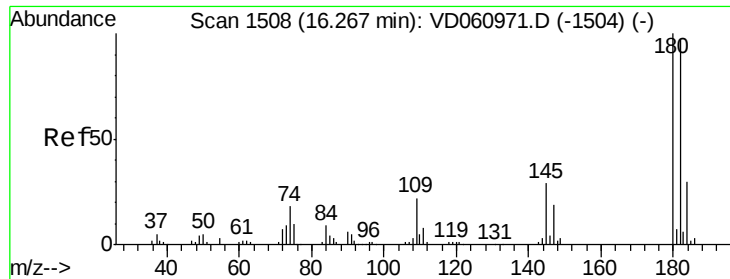


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

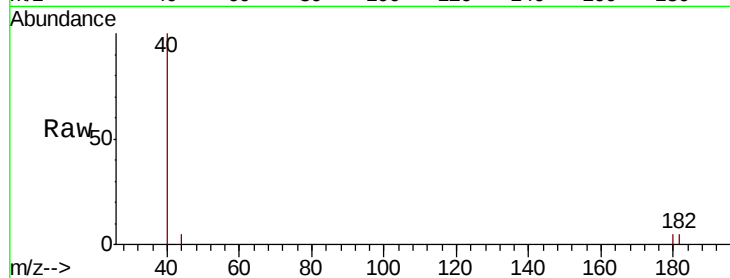
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.029 ug/l
 RT: 16.27 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VD061106.D
 Acq: 16 Mar 2019 13:46

Tgt Ion:180 Resp: 744
 Ion Ratio Lower Upper
 180 100
 182 99.8 48.6 145.8
 145 0.0 14.3 42.9#



Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

