

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031419\
 Data File : VD061066.D
 Acq On : 14 Mar 2019 15:54
 Operator : VA/AP
 Sample : K1901-02
 Misc : 3.94g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-1(12-13)

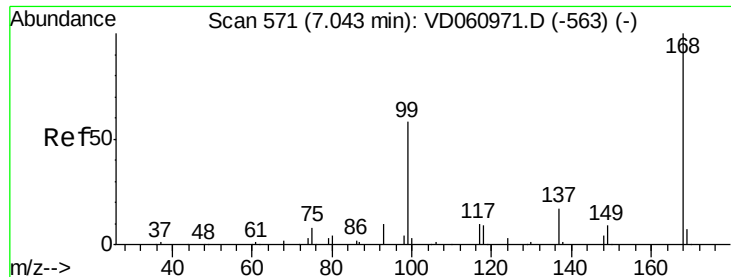
Quant Time: Mar 15 02:12:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	470461	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	856094	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	572418	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	169879	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	246419	62.93	ug/l	0.00
Spiked Amount			Recovery	=	125.86%	
35) Dibromofluoromethane	6.93	113	382619	60.22	ug/l	0.00
Spiked Amount			Recovery	=	120.44%	
50) Toluene-d8	10.41	98	773082	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
62) 4-Bromofluorobenzene	13.56	95	227784	36.79	ug/l	0.00
Spiked Amount			Recovery	=	73.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.22	43	19689	17.582	ug/l	91
17) Carbon Disulfide	3.39	76	163208	10.245	ug/l	100
20) Methylene Chloride	3.82	84	16370	Below Cal		90
25) 2-Butanone	6.06	43	5245	4.128	ug/l #	55
31) Cyclohexane	6.96	56	19007	2.743	ug/l	85
36) 1,1-Dichloropropene	7.05	75	33067	4.481	ug/l #	46
37) Ethyl Acetate	6.06	43	5245	1.515	ug/l #	66
38) Carbon Tetrachloride	7.05	117	43645	5.369	ug/l #	15
39) Methylcyclohexane	8.87	83	21701	2.836	ug/l	98
43) Isopropyl Acetate	9.28	43	5321	1.109	ug/l #	43
51) 4-Methyl-2-Pentanone	10.40	43	11403	3.881	ug/l #	39
56) Ethyl methacrylate	11.09	69	8131	2.034	ug/l #	1
59) 2-Hexanone	11.49	43	4950	2.303	ug/l #	25
74) N-amyl acetate	13.33	43	46778	13.569	ug/l #	34
75) 1,1,2,2-Tetrachloroethane	13.71	83	9955	4.168	ug/l #	75
81) trans-1,4-Dichloro-2-buten	13.56	75	81333	112.877	ug/l #	19

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

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ClientSampleId :

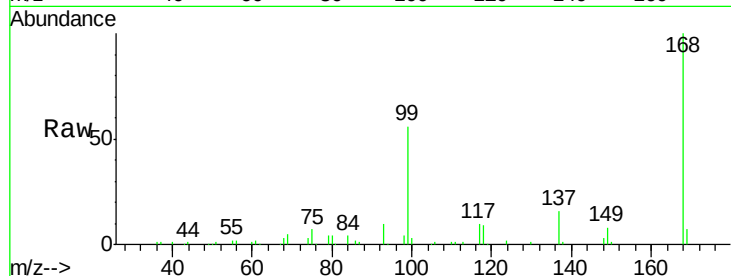
SB-1(12-13)

Tot Ion:168 Resp: 470461

Ion Ratio Lower Upper

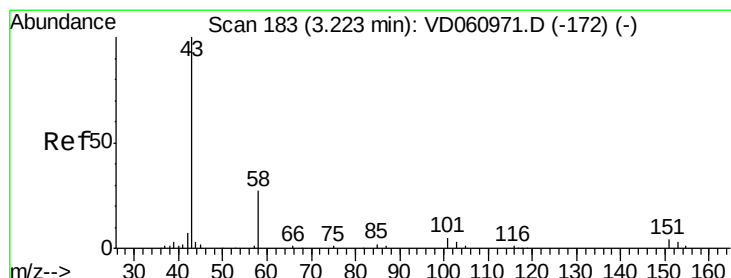
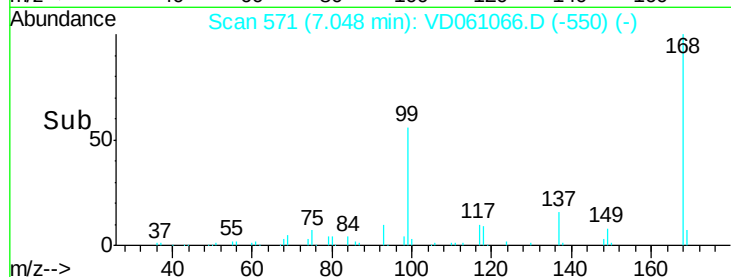
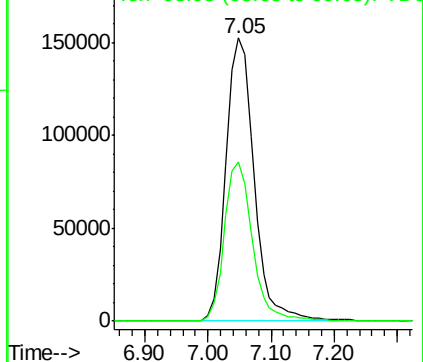
168 100

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



#16

Acetone

Concen: 17.582 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD061066.D

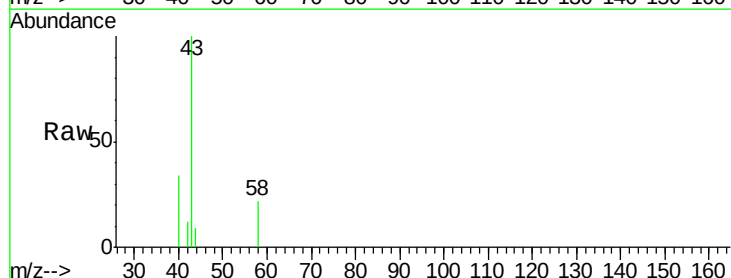
Acq: 14 Mar 2019 15:54

Tgt Ion: 43 Resp: 19689

Ion Ratio Lower Upper

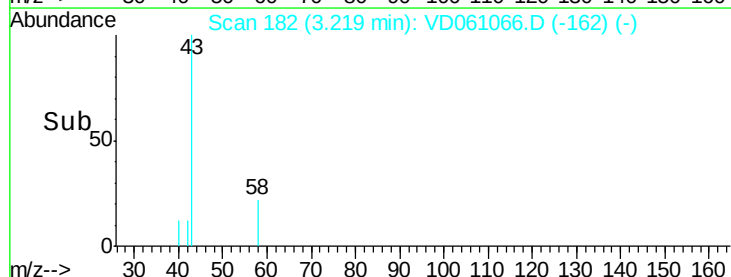
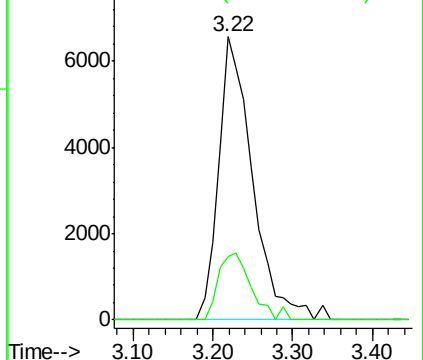
43 100

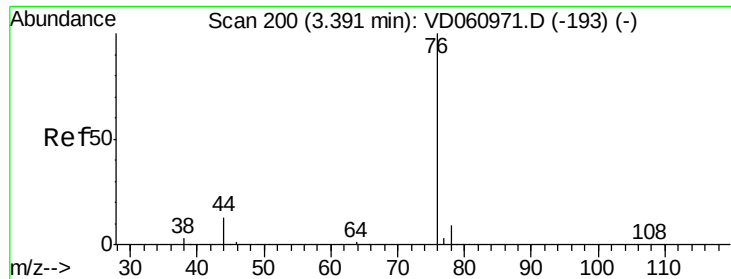
58 22.4 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 10.245 ug/l

RT: 3.39 min Scan# 199

Delta R.T. -0.00 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

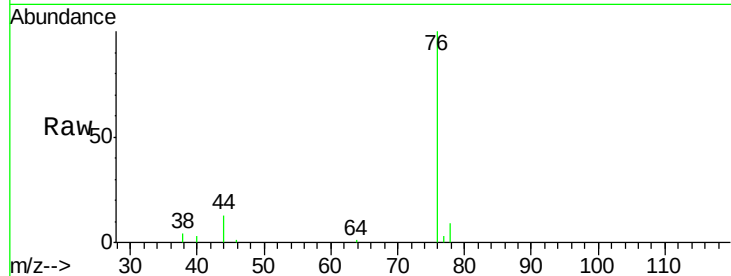
SB-1(12-13)

Tot Ion: 76 Resp: 163208

Ion Ratio Lower Upper

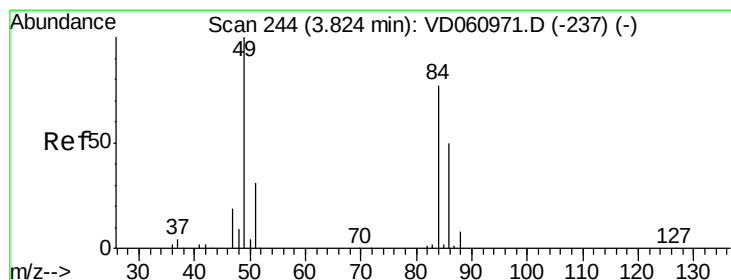
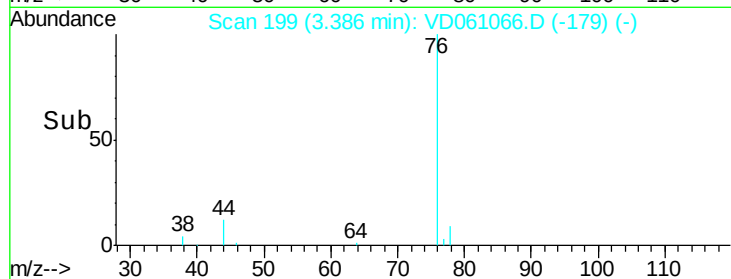
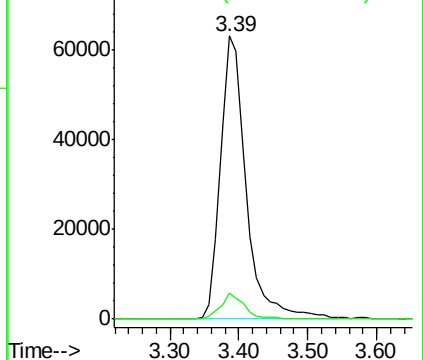
76 100

78 9.4 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 3.82 min Scan# 243

Delta R.T. -0.00 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

Tgt Ion: 84 Resp: 16370

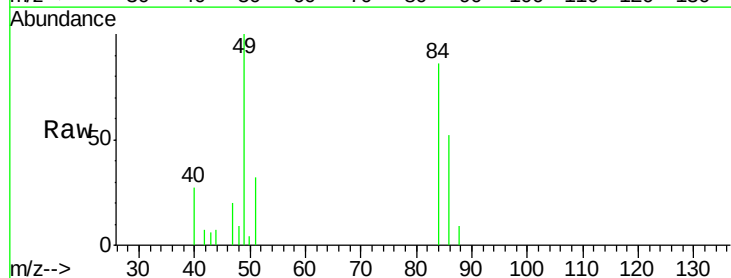
Ion Ratio Lower Upper

84 100

49 115.6 104.2 156.2

51 36.9 32.3 48.5

86 60.3 52.3 78.5

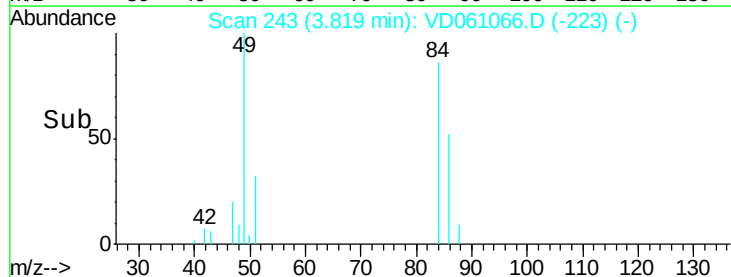
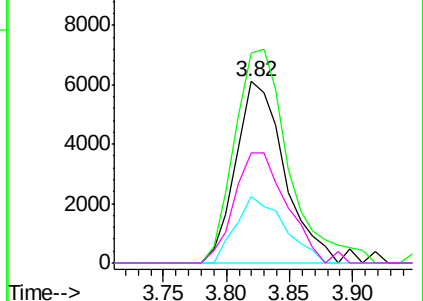


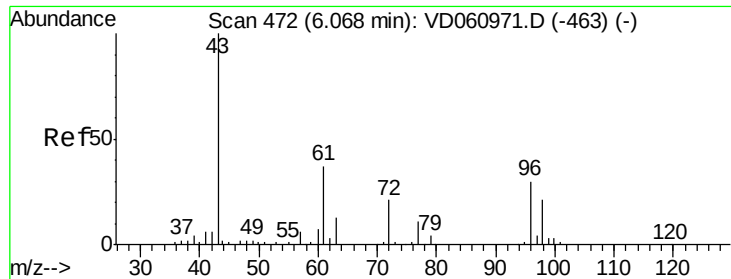
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 4.128 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

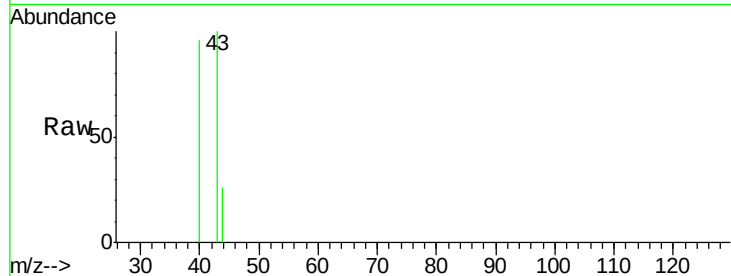
SB-1(12-13)

Tot Ion: 43 Resp: 5245

Ion Ratio Lower Upper

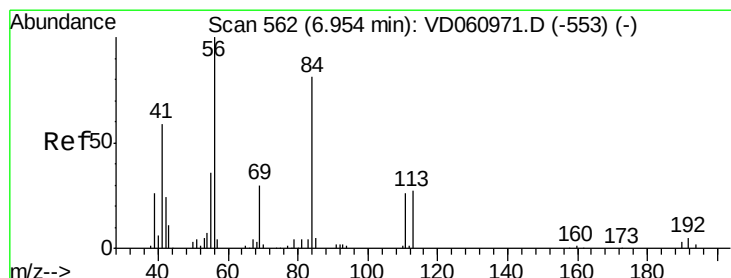
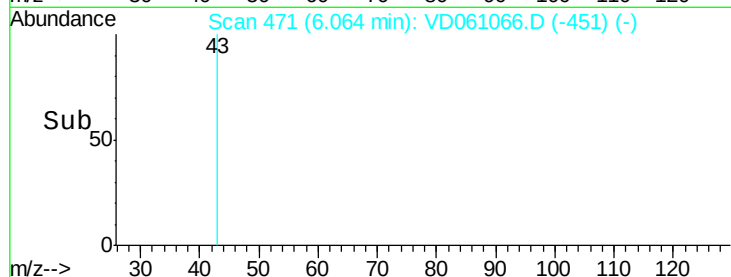
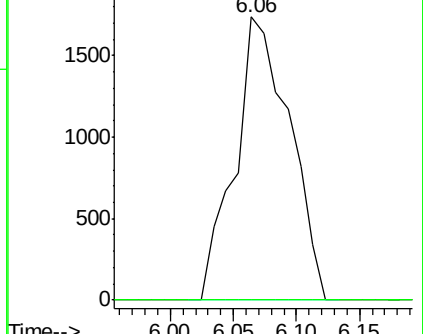
43 100

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



#31

Cyclohexane

Concen: 2.743 ug/l

RT: 6.96 min Scan# 562

Delta R.T. 0.01 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

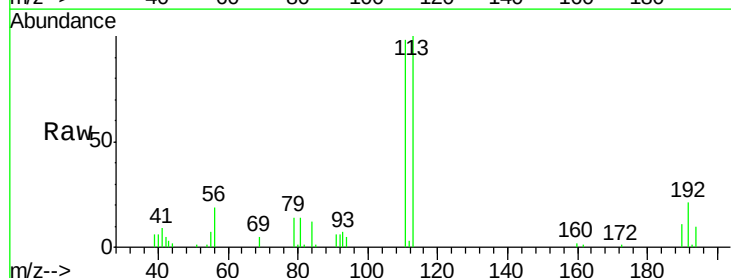
Tgt Ion: 56 Resp: 19007

Ion Ratio Lower Upper

56 100

69 25.6 24.0 36.0

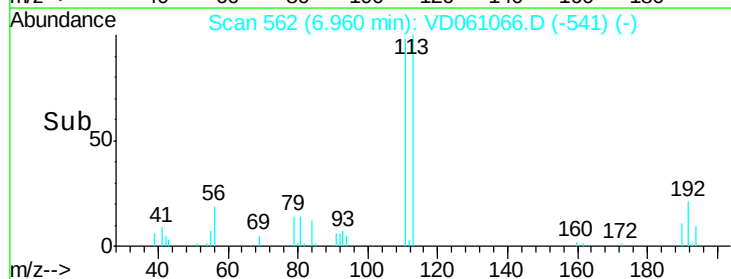
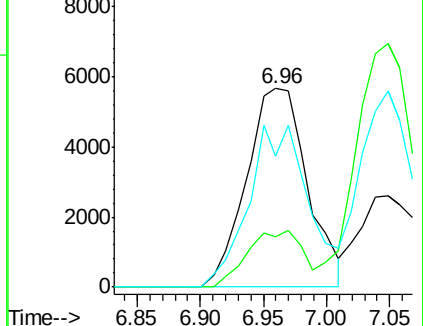
84 66.0 65.8 98.6

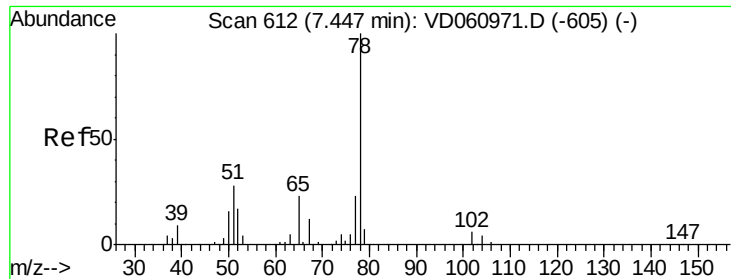


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

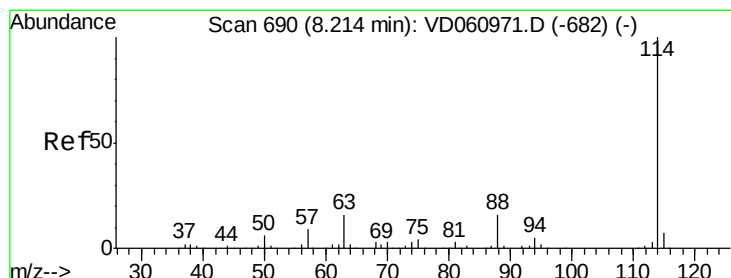
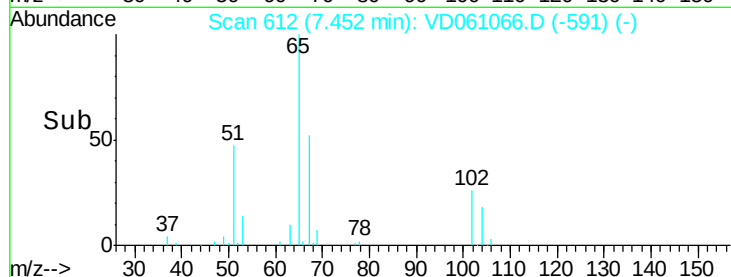
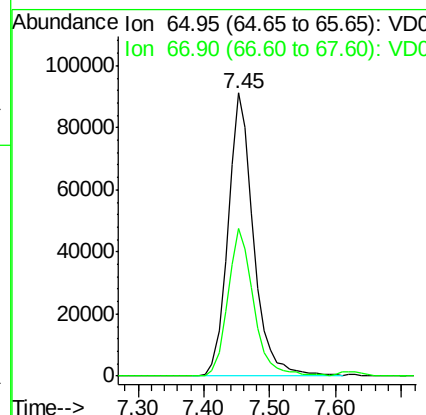
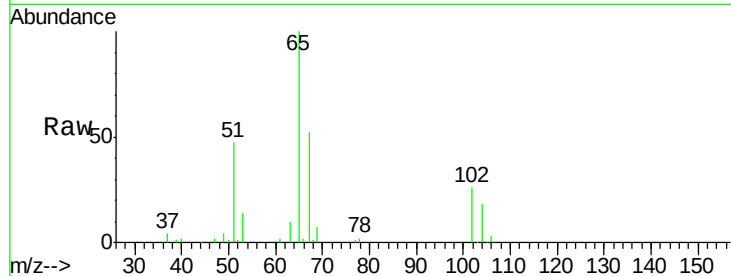




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD061066.D
 Acq: 14 Mar 2019 15:54

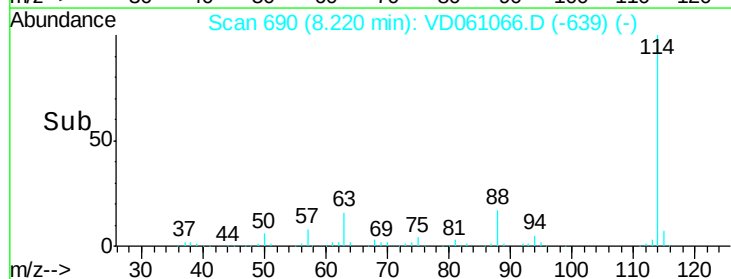
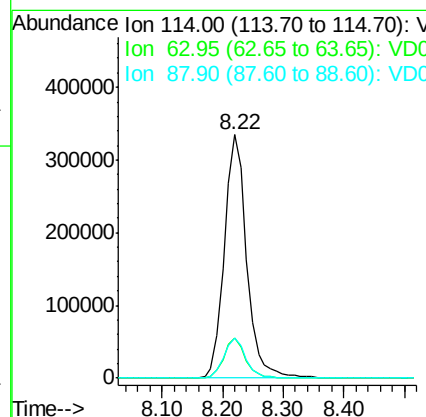
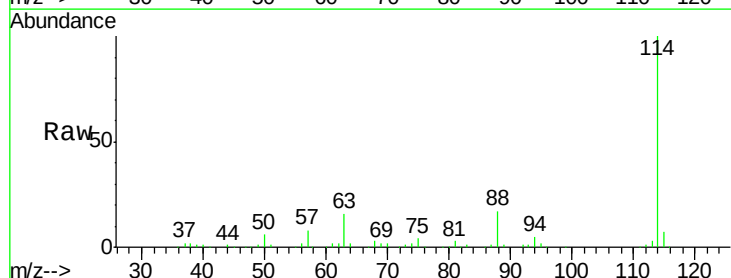
Instrument :
 MSVOA_D
 ClientSampleID :
 SB-1(12-13)

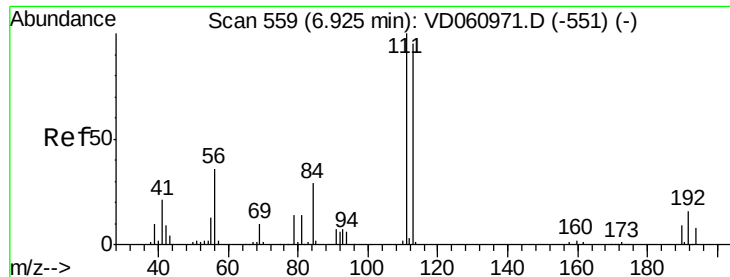
Tot Ion: 65 Resp: 246419
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD061066.D
 Acq: 14 Mar 2019 15:54

Tgt Ion: 114 Resp: 856094
 Ion Ratio Lower Upper
 114 100
 63 16.3 0.0 31.4
 88 16.5 0.0 33.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

SB-1(12-13)

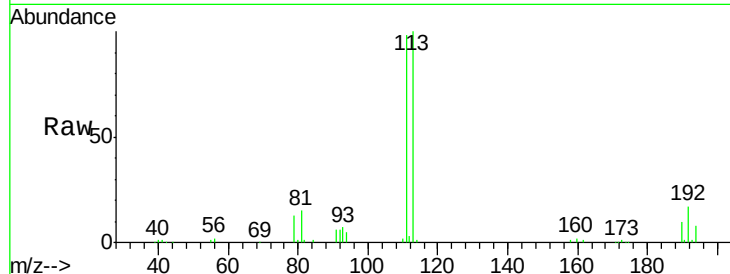
Tot Ion:113 Resp: 382619

Ion Ratio Lower Upper

113 100

111 97.5 84.2 126.4

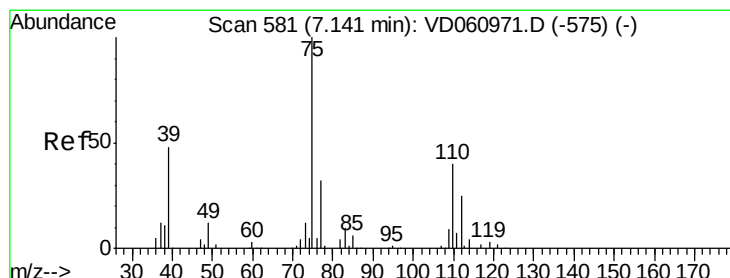
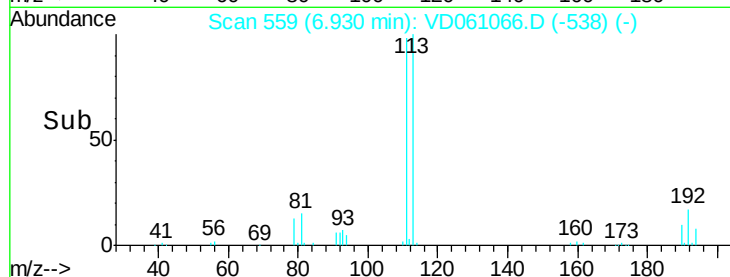
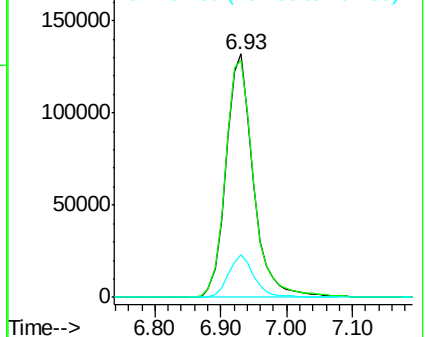
192 17.5 13.1 19.7



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: 4.481 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

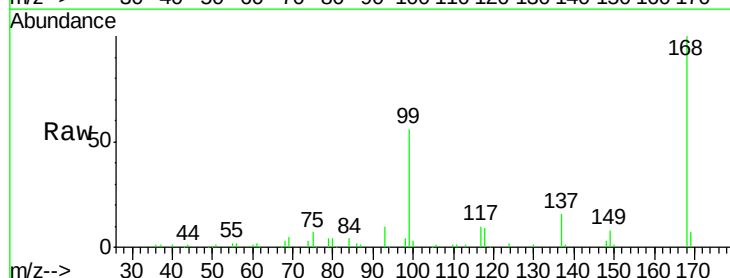
Tgt Ion: 75 Resp: 33067

Ion Ratio Lower Upper

75 100

110 7.9 19.7 59.1#

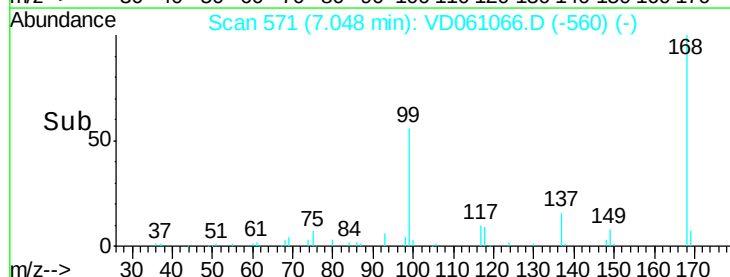
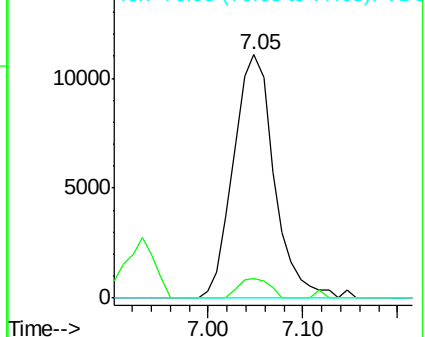
77 0.0 24.7 37.1#

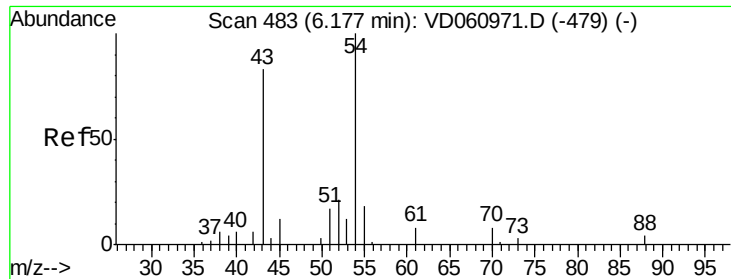


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 1.515 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.11 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

SB-1(12-13)

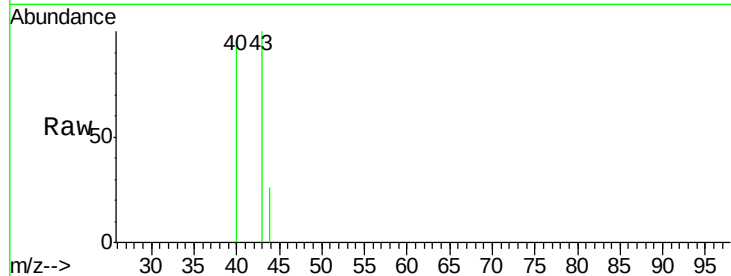
Tot Ion: 43 Resp: 5245

Ion Ratio Lower Upper

43 100

61 0.0 13.7 20.5#

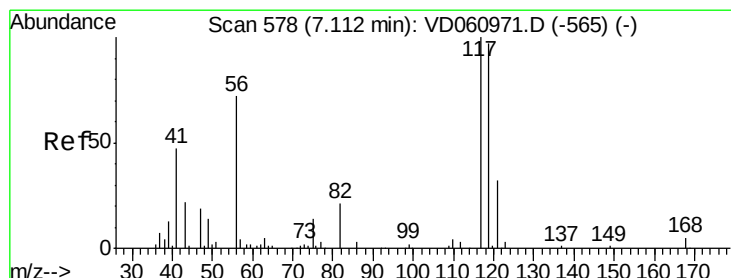
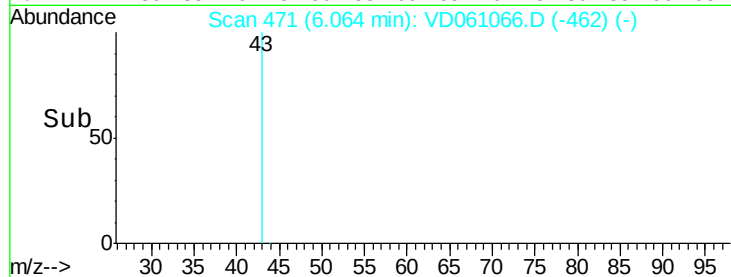
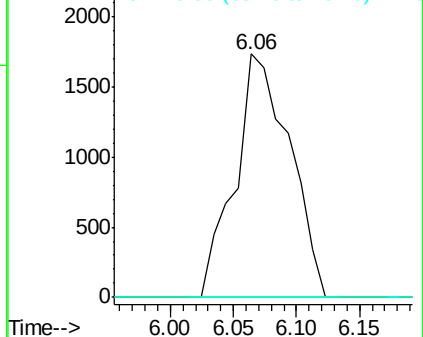
70 0.0 7.1 10.7#



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: 5.369 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.06 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

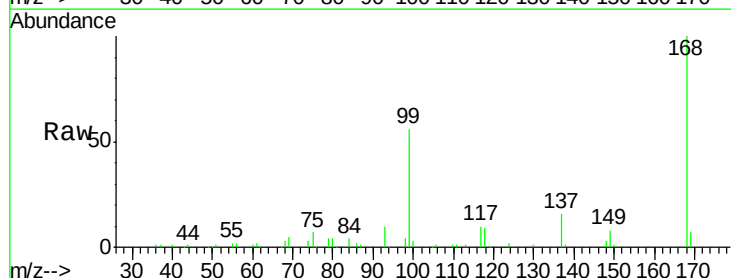
Tgt Ion: 117 Resp: 43645

Ion Ratio Lower Upper

117 100

119 4.7 77.8 116.8#

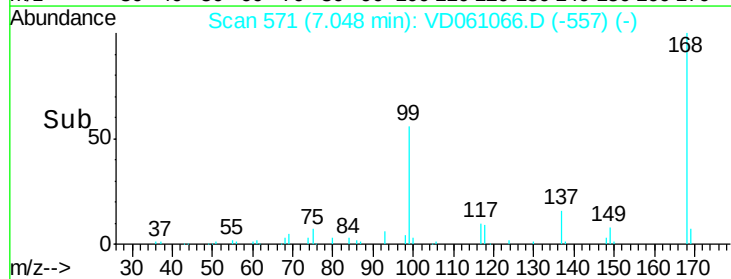
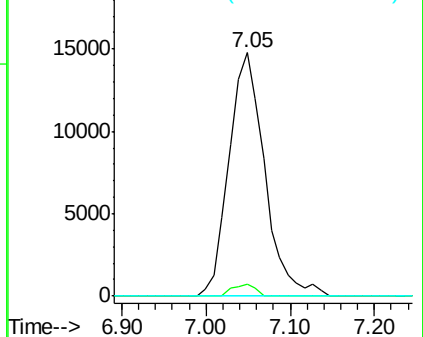
121 0.0 25.3 37.9#

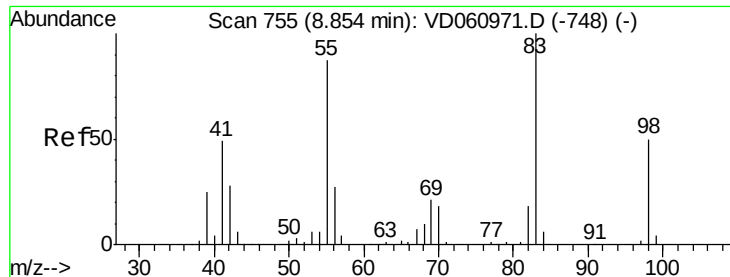


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

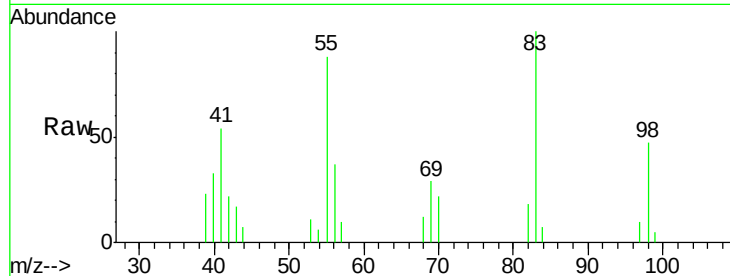




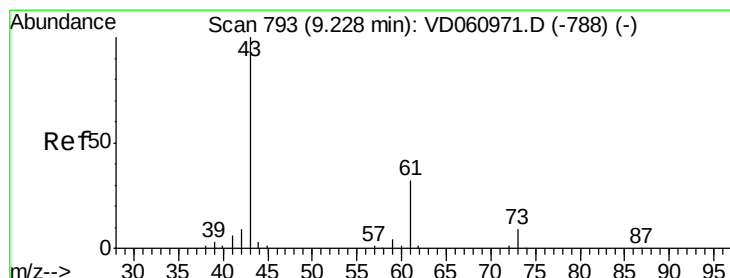
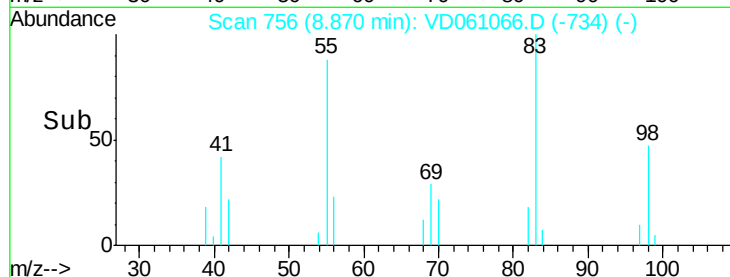
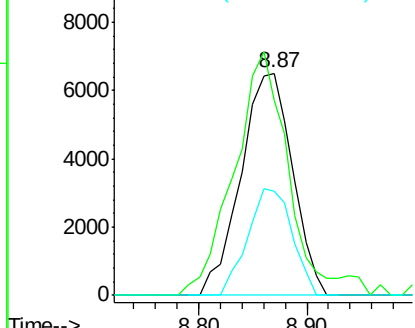
#39
Methylcyclohexane
Concen: 2.836 ug/l
RT: 8.87 min Scan# 756
Delta R.T. 0.02 min
Lab File: VD061066.D
Acq: 14 Mar 2019 15:54

Instrument :
MSVOA_D
ClientSampleId :
SB-1(12-13)

Tot Ion: 83 Resp: 21701
Ion Ratio Lower Upper
83 100
55 88.1 69.6 104.4
98 46.8 40.0 60.0

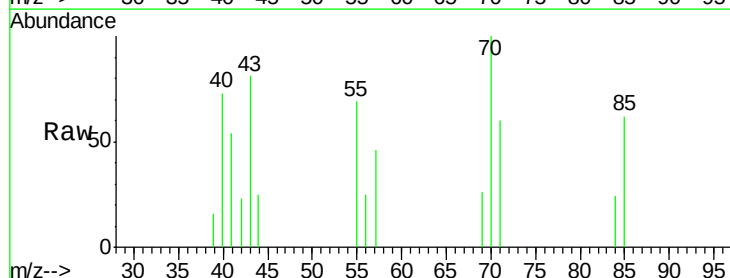


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

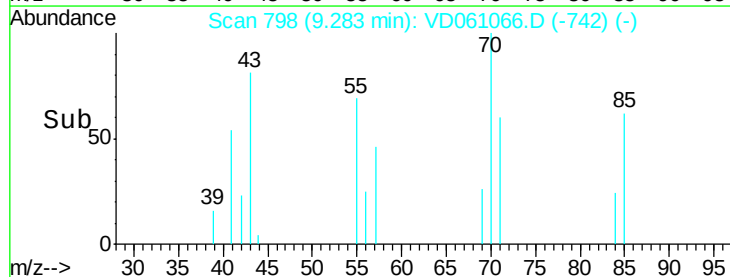
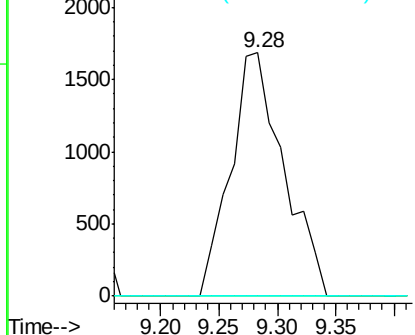


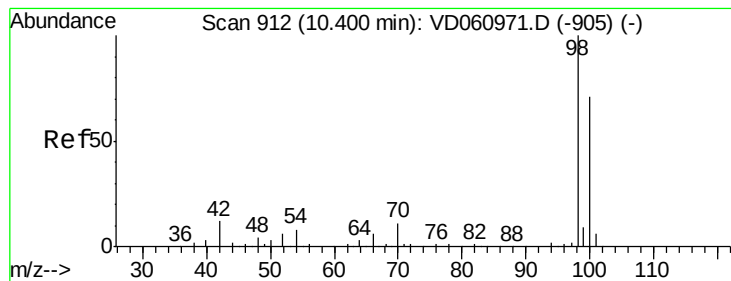
#43
Isopropyl Acetate
Concen: 1.109 ug/l
RT: 9.28 min Scan# 798
Delta R.T. 0.05 min
Lab File: VD061066.D
Acq: 14 Mar 2019 15:54

Tgt Ion: 43 Resp: 5321
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: 10.41 min Scan# 912

Delta R.T. 0.01 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

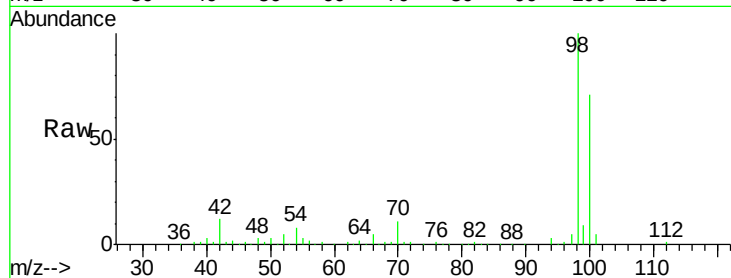
SB-1(12-13)

Tot Ion: 98 Resp: 773082

Ion Ratio Lower Upper

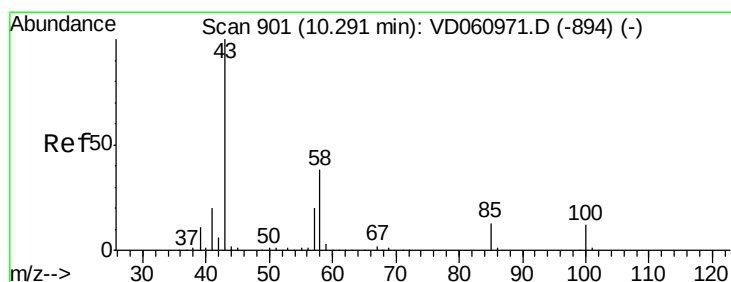
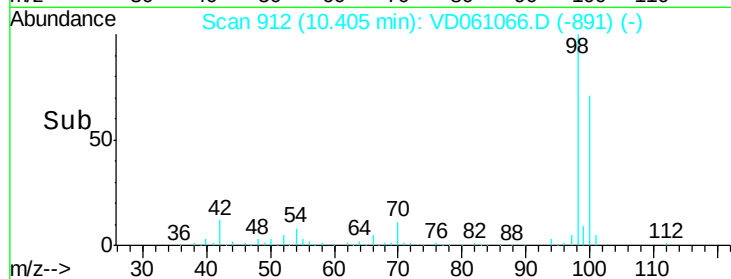
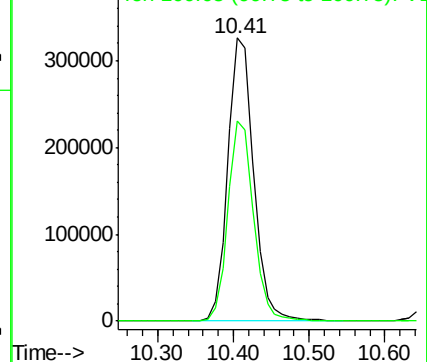
98 100

100 70.6 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: 3.881 ug/l

RT: 10.40 min Scan# 911

Delta R.T. 0.10 min

Lab File: VD061066.D

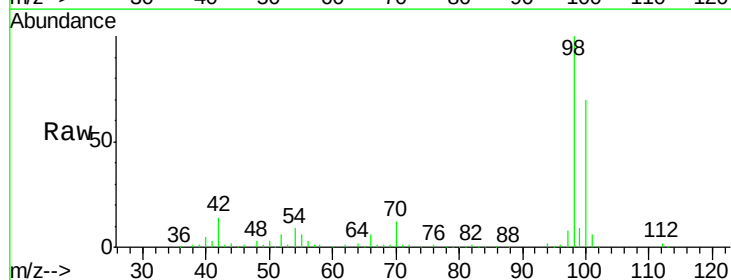
Acq: 14 Mar 2019 15:54

Tgt Ion: 43 Resp: 11403

Ion Ratio Lower Upper

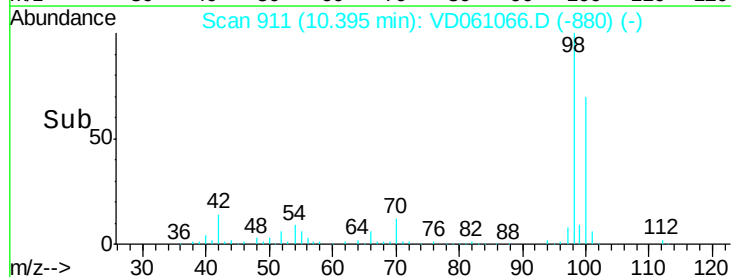
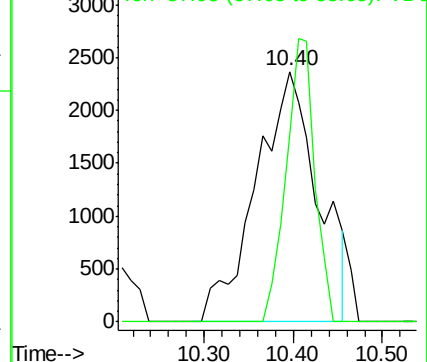
43 100

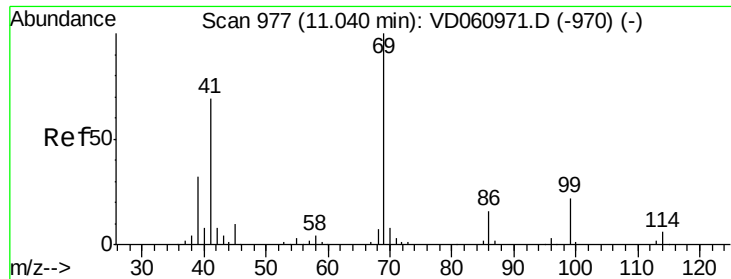
58 74.6 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#56

Ethyl methacrylate

Concen: 2.034 ug/l

RT: 11.09 min Scan# 982

Delta R.T. 0.05 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

SB-1(12-13)

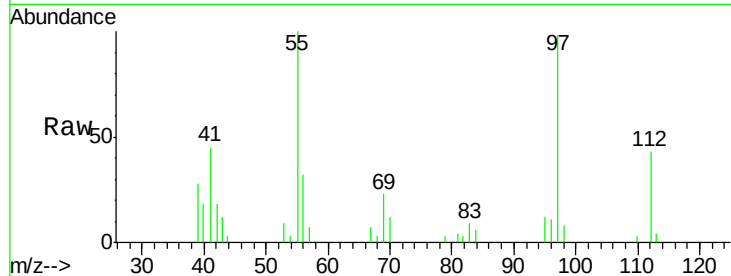
Tot Ion: 69 Resp: 8131

Ion Ratio Lower Upper

69 100

41 202.1 55.5 83.3#

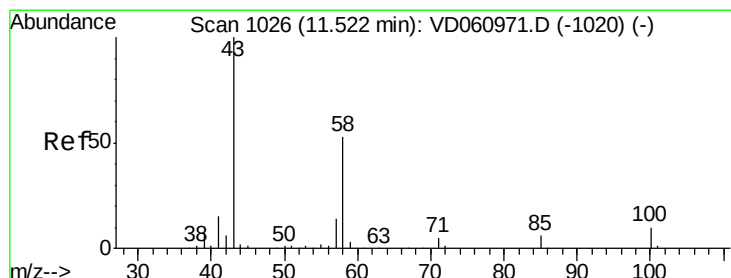
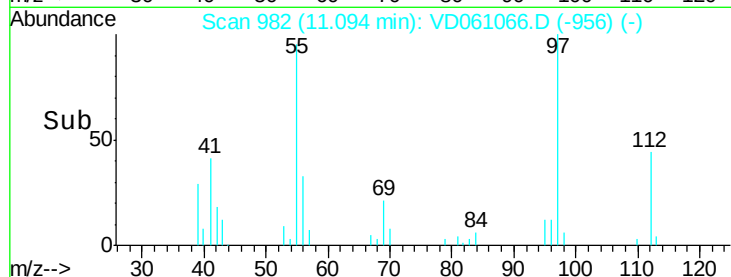
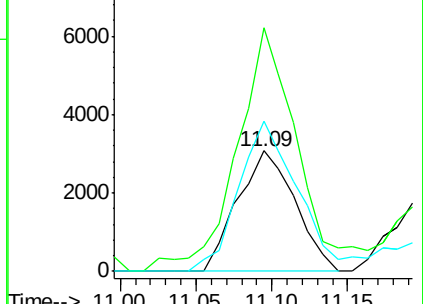
39 124.4 26.2 39.2#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC



#59

2-Hexanone

Concen: 2.303 ug/l

RT: 11.49 min Scan# 1022

Delta R.T. -0.03 min

Lab File: VD061066.D

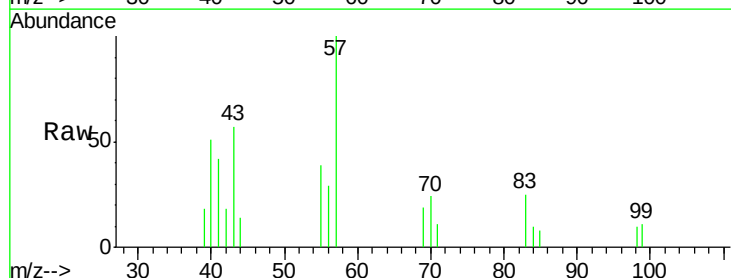
Acq: 14 Mar 2019 15:54

Tgt Ion: 43 Resp: 4950

Ion Ratio Lower Upper

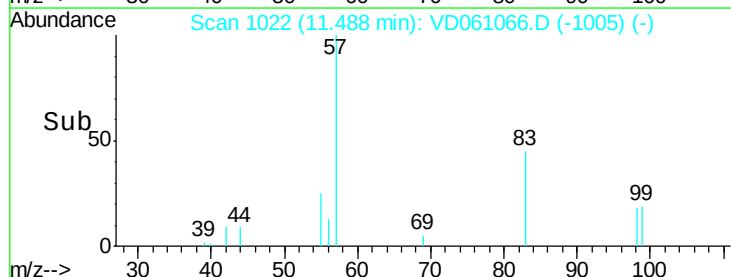
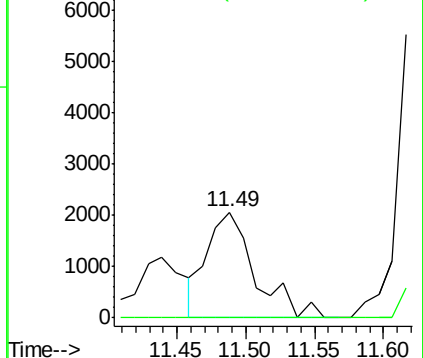
43 100

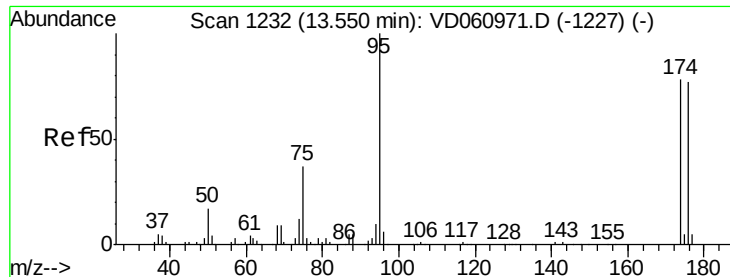
58 0.0 26.5 79.5#



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: 13.56 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

SB-1(12-13)

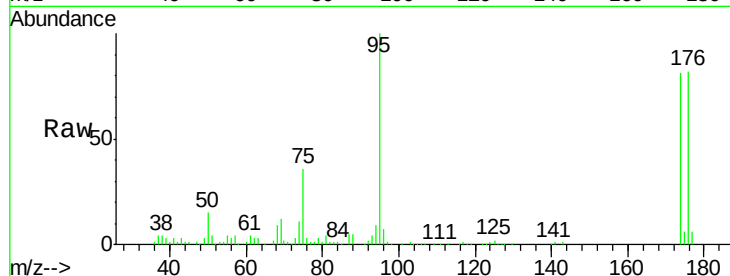
Tot Ion: 95 Resp: 227784

Ion Ratio Lower Upper

95 100

174 81.1 0.0 155.6

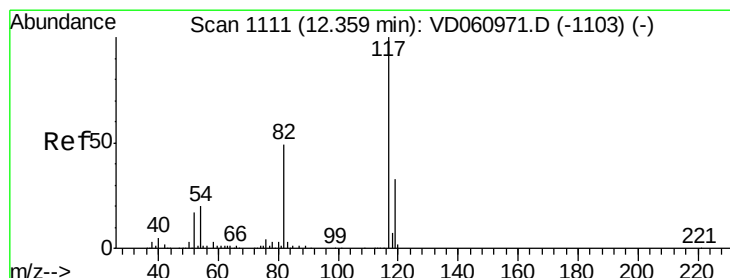
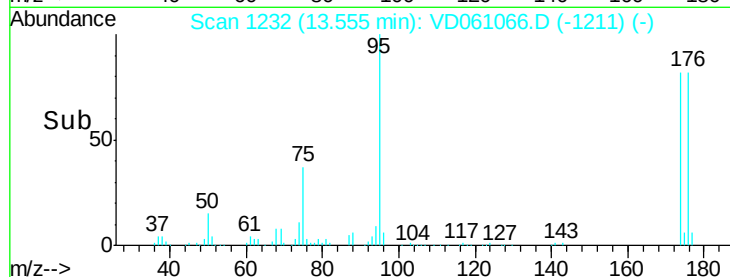
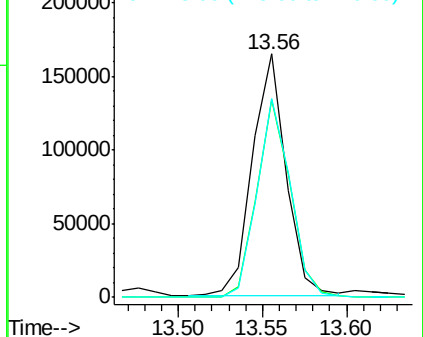
176 81.5 0.0 153.8



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: 12.36 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

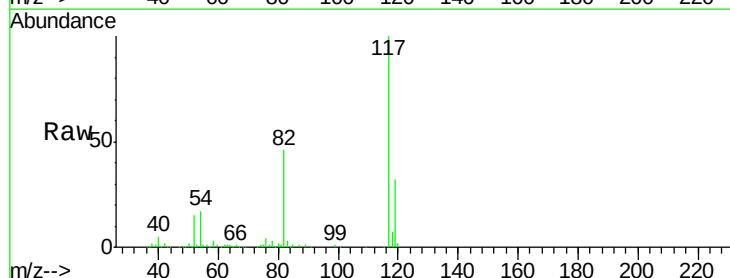
Tgt Ion: 117 Resp: 572418

Ion Ratio Lower Upper

117 100

82 45.8 38.9 58.3

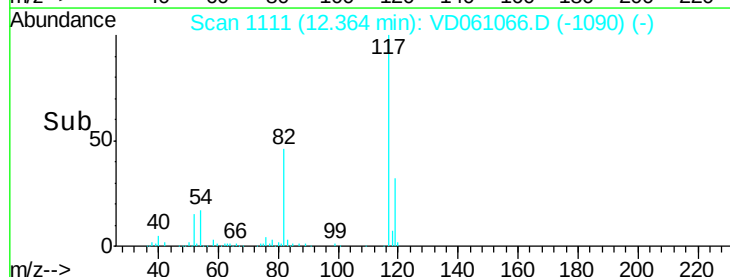
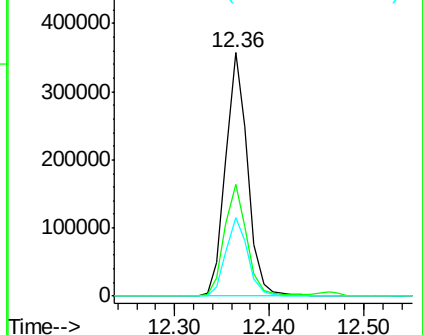
119 32.2 26.6 39.8

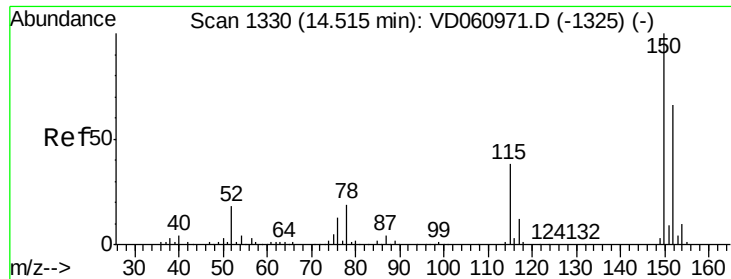


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

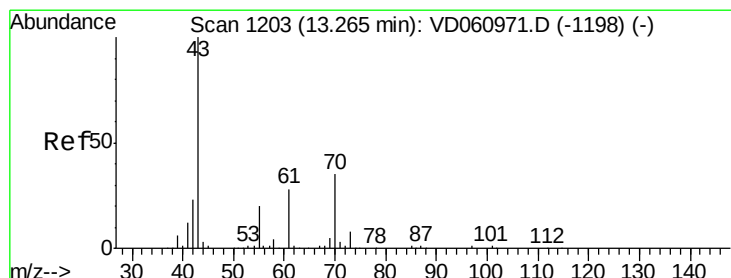
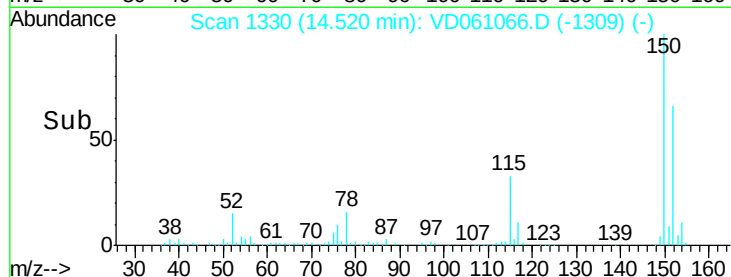
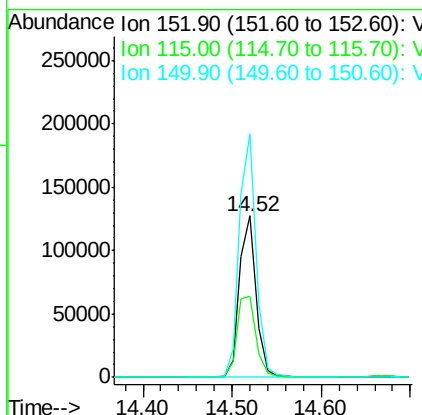
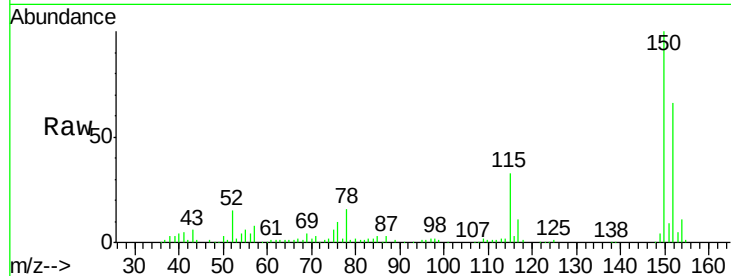




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. 0.01 min
 Lab File: VD061066.D
 Acq: 14 Mar 2019 15:54

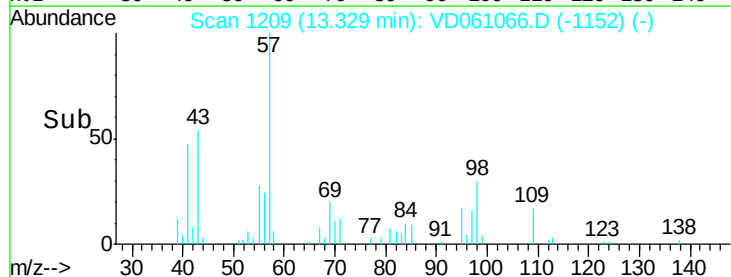
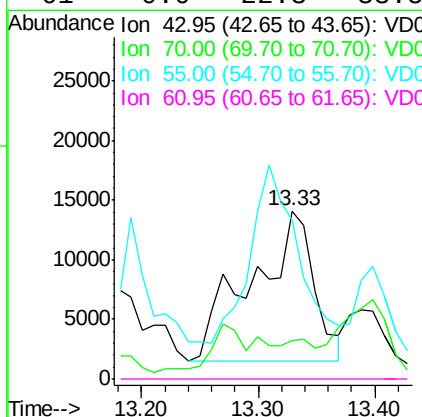
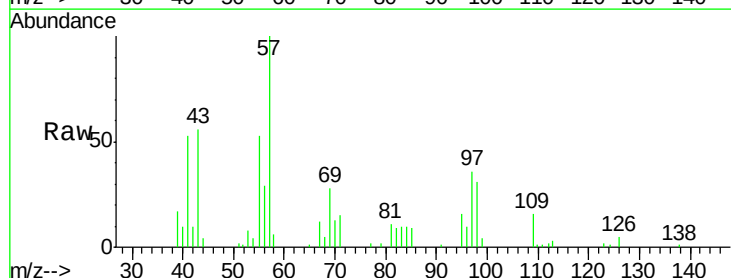
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-1(12-13)

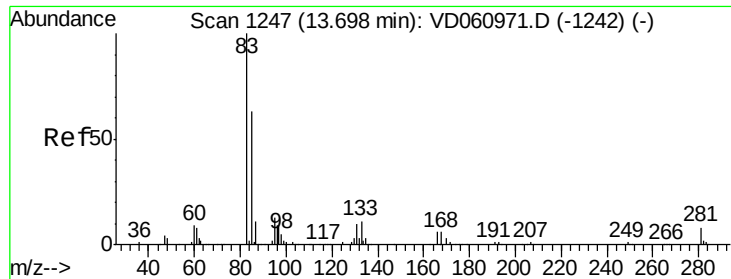
Tot Ion:152 Resp: 169879
 Ion Ratio Lower Upper
 152 100
 115 50.3 28.6 85.9
 150 151.2 0.0 310.6



#74
 N-ethyl acetate
 Concen: 13.569 ug/l
 RT: 13.33 min Scan# 1209
 Delta R.T. 0.06 min
 Lab File: VD061066.D
 Acq: 14 Mar 2019 15:54

Tgt Ion: 43 Resp: 46778
 Ion Ratio Lower Upper
 43 100
 70 22.6 27.7 41.5#
 55 94.3 16.2 24.2#
 61 0.0 22.3 33.5#





#75

1,1,2,2-Tetrachloroethane

Concen: 4.168 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.02 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

SB-1(12-13)

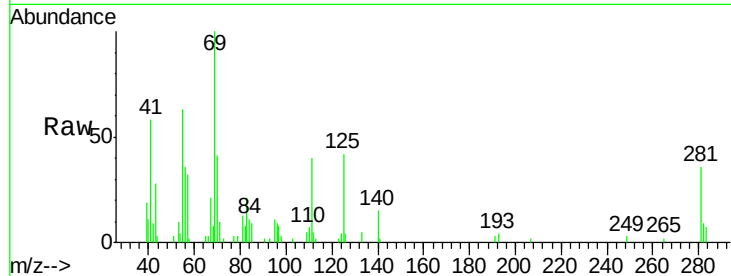
Tot Ion: 83 Resp: 9955

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 44.1 31.5 94.5

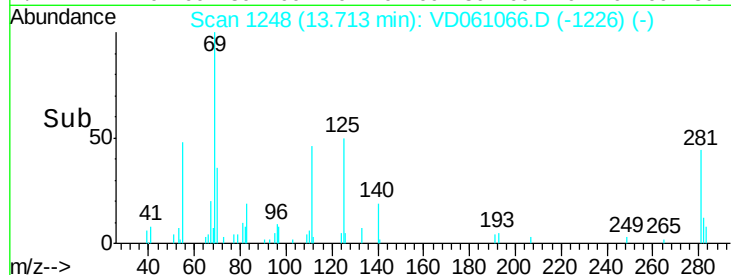


Abundance Ion 82.95 (82.65 to 83.65): VDC

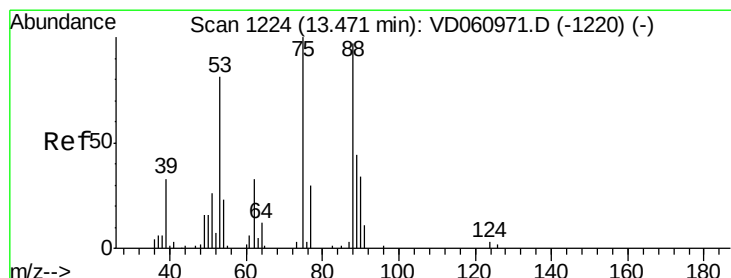
Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC

Time-->



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 112.877 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061066.D

Acq: 14 Mar 2019 15:54

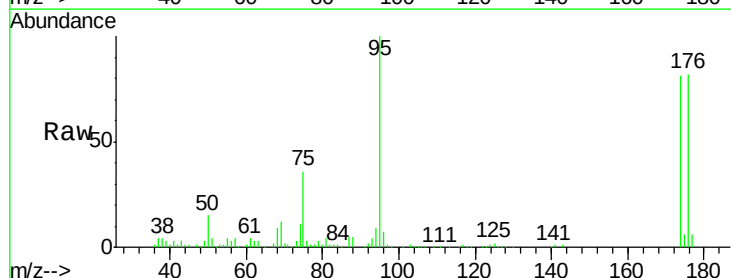
Tgt Ion: 75 Resp: 81333

Ion Ratio Lower Upper

75 100

53 2.5 64.4 96.6#

89 0.0 34.8 52.2#

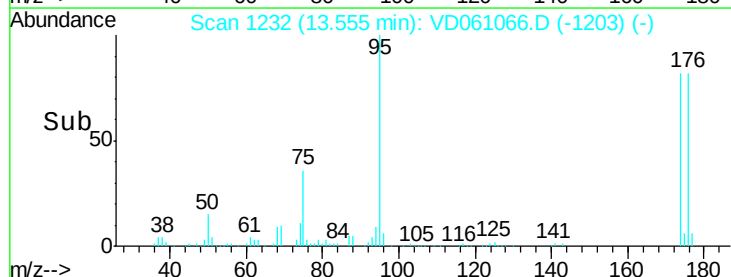


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

Time-->



Time-->