

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032019\
 Data File : VD061215.D
 Acq On : 20 Mar 2019 18:31
 Operator : VA/AP
 Sample : K2004-01
 Misc : 6.05µl/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 22 02:02:13 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	7.04	168	57177	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	101983	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	88170	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	35809	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	33381	70.14	ug/l	0.00
Spiked Amount			Recovery	=	140.28%	
35) Dibromofluoromethane	6.92	113	40693	53.77	ug/l	0.00
Spiked Amount			Recovery	=	107.54%	
50) Toluene-d8	10.40	98	79667	41.92	ug/l	0.00
Spiked Amount			Recovery	=	83.84%	
62) 4-Bromofluorobenzene	13.55	95	35545	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	

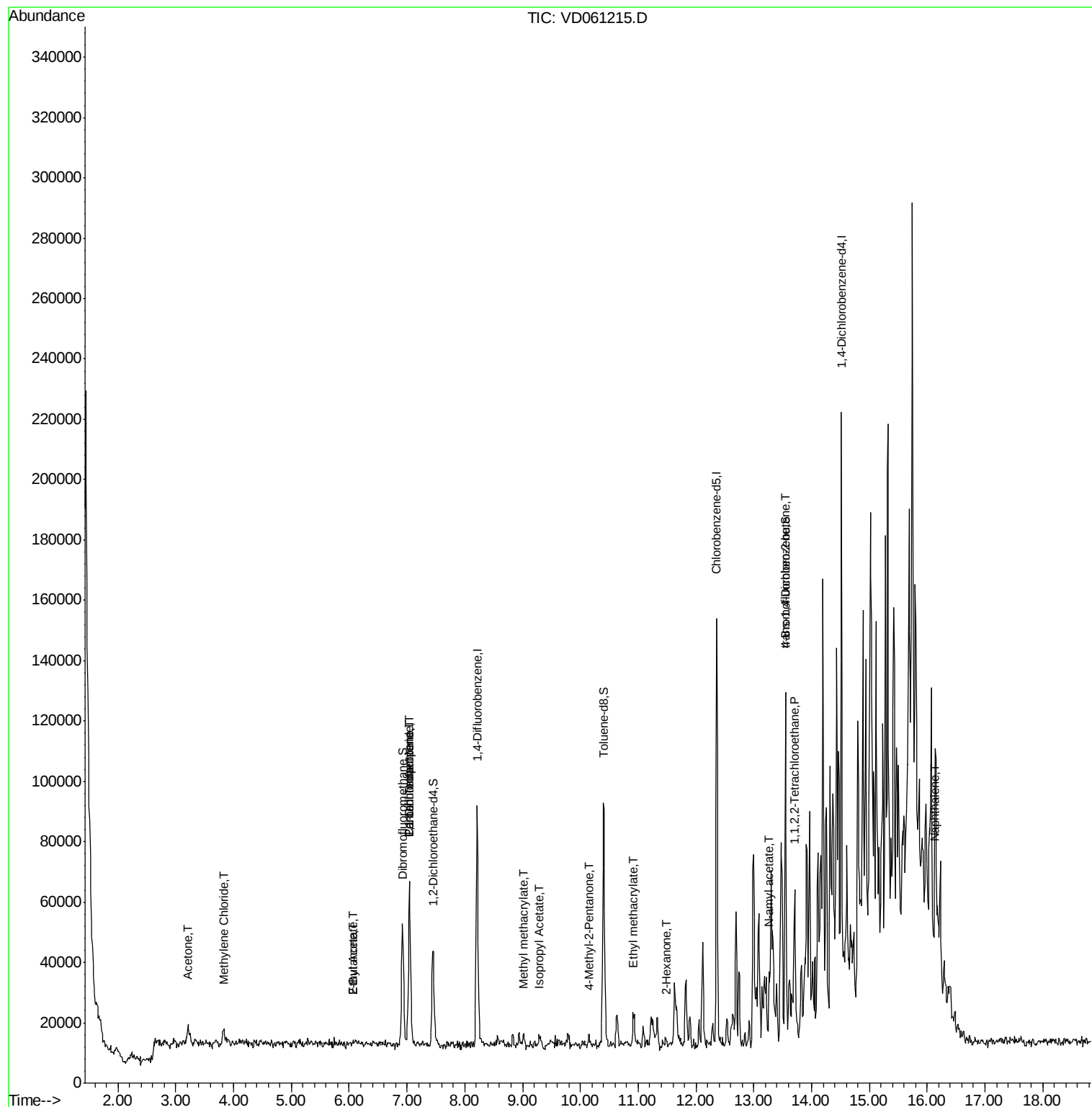
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.22	43	11220	82.441	ug/l	96
20) Methylene Chloride	3.82	84	5342	4.351	ug/l #	81
25) 2-Butanone	6.07	43	2671	17.296	ug/l #	55
36) 1,1-Dichloropropene	7.05	75	3911	4.449	ug/l #	39
37) Ethyl Acetate	6.07	43	2671	6.475	ug/l #	66
38) Carbon Tetrachloride	7.04	117	5029	5.193	ug/l #	11
43) Isopropyl Acetate	9.29	43	1268	2.219	ug/l #	43
48) Methyl methacrylate	9.01	41	1070	3.326	ug/l #	18
51) 4-Methyl-2-Pentanone	10.14	43	3553	10.151	ug/l #	37
56) Ethyl methacrylate	10.91	69	1979	4.156	ug/l #	84
59) 2-Hexanone	11.49	43	632	2.468	ug/l #	25
74) N-amyl acetate	13.26	43	5042	6.939	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	13.70	83	3673	7.295	ug/l #	50
81) trans-1,4-Dichloro-2-buten	13.55	75	11453	75.406	ug/l #	17
95) Naphthalene	16.12	128	920	1.331	ug/l #	70

(#) = 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: 7.04 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

Instrument :

MSVOA_D

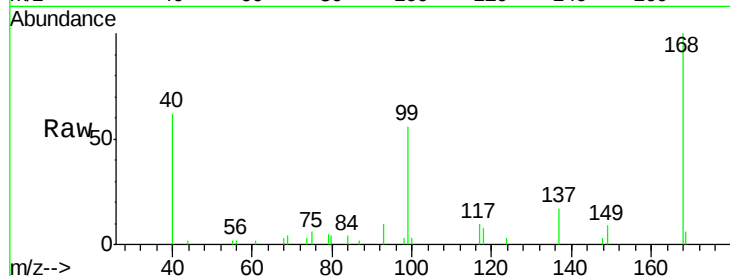
ClientSampleId :

Tot Ion:168 Resp: 57177

Ion Ratio Lower Upper

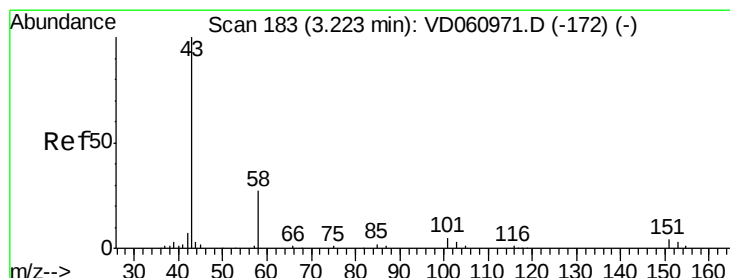
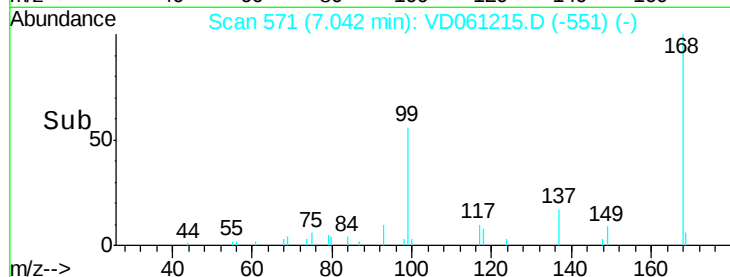
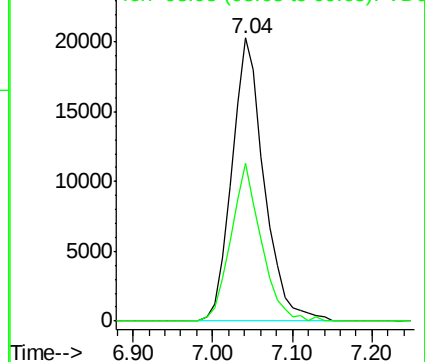
168 100

99 55.6 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: 82.441 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD061215.D

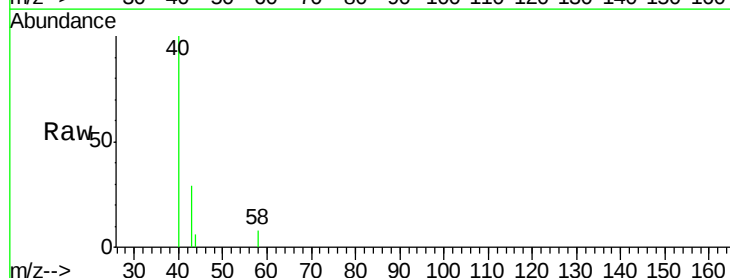
Acq: 20 Mar 2019 18:31

Tgt Ion: 43 Resp: 11220

Ion Ratio Lower Upper

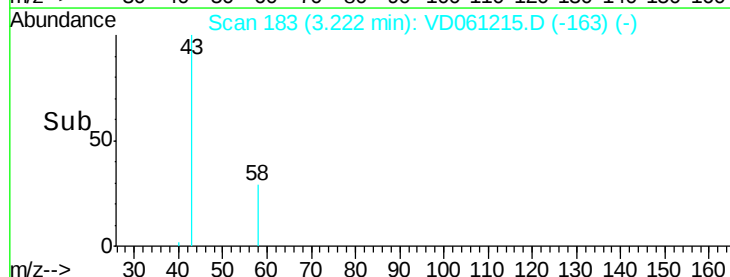
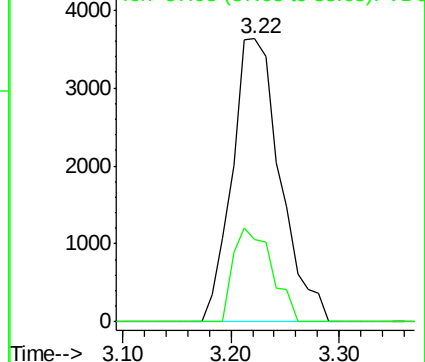
43 100

58 29.3 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

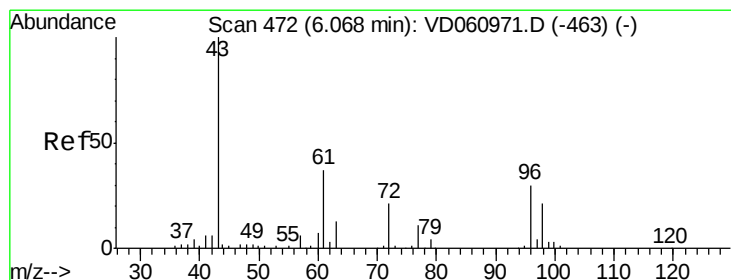
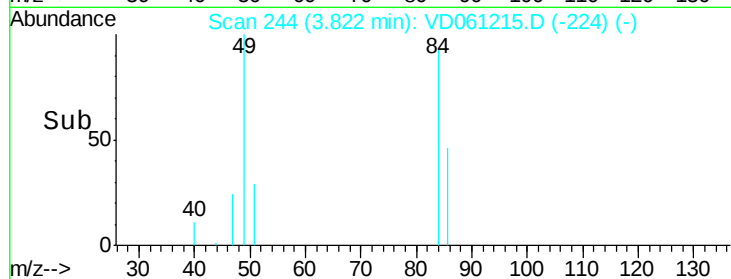
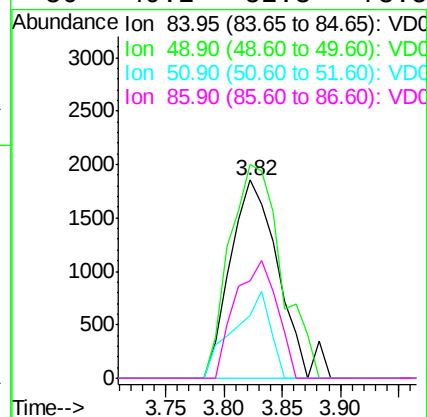
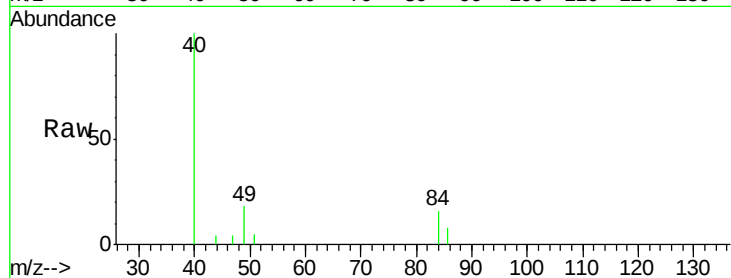




#20
Methvlene Chloride
Concen: 4.351 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.00 min
Lab File: VD061215.D
Acq: 20 Mar 2019 18:31

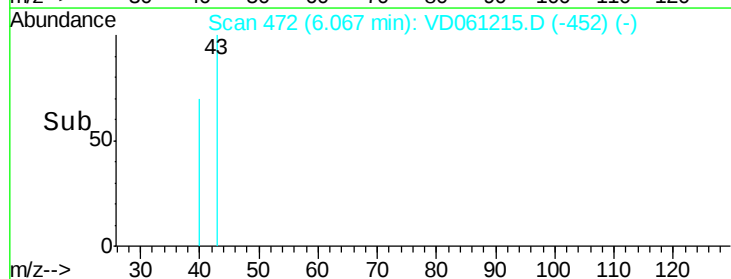
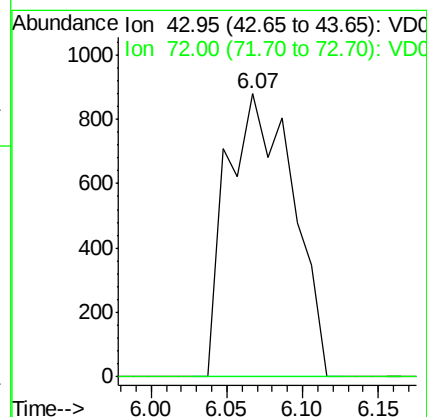
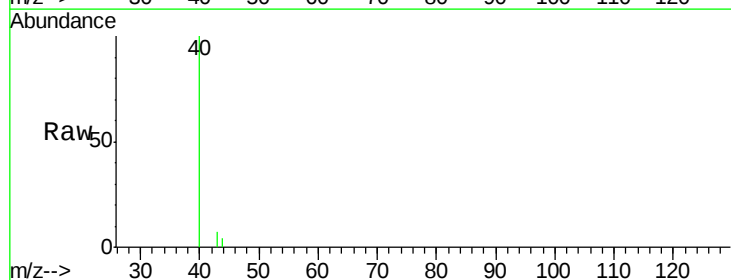
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 5342
Ion Ratio Lower Upper
84 100
49 107.8 104.2 156.2
51 31.6 32.3 48.5#
86 49.2 52.3 78.5#



#25
2-Butanone
Concen: 17.296 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.00 min
Lab File: VD061215.D
Acq: 20 Mar 2019 18:31

Tgt Ion: 43 Resp: 2671
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

Instrument :

MSVOA_D

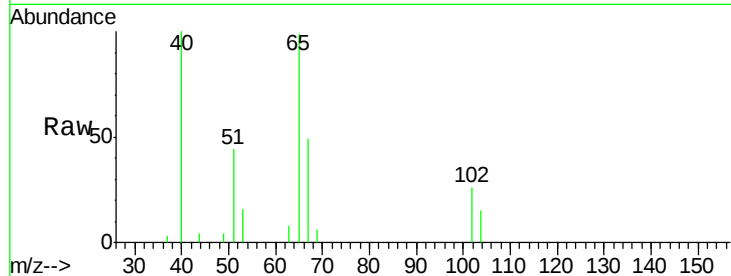
ClientSampleId :

Tot Ion: 65 Resp: 33381

Ion Ratio Lower Upper

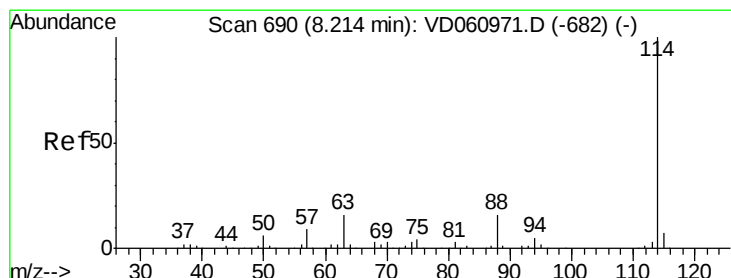
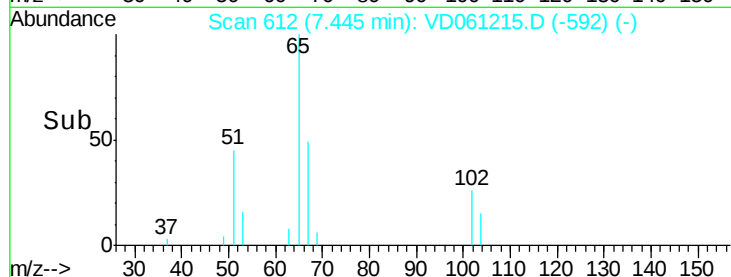
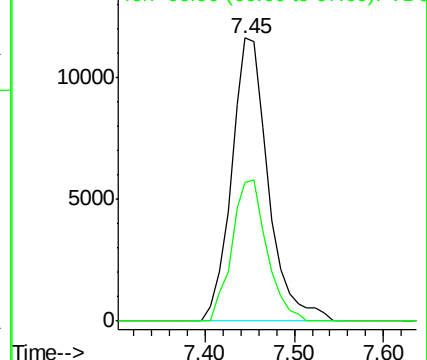
65 100

67 49.2 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: 8.21 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

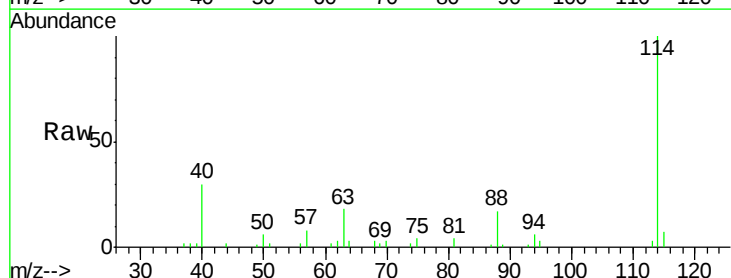
Tgt Ion: 114 Resp: 101983

Ion Ratio Lower Upper

114 100

63 17.8 0.0 31.4

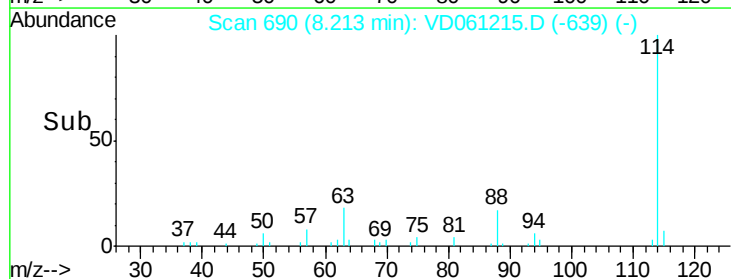
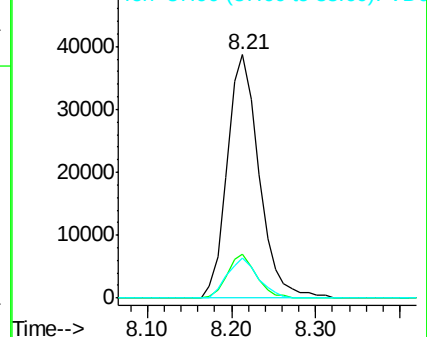
88 16.7 0.0 33.0



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

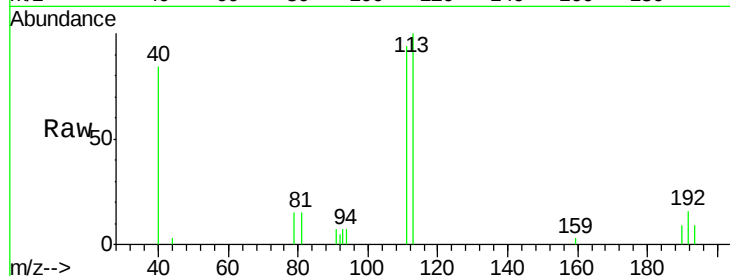




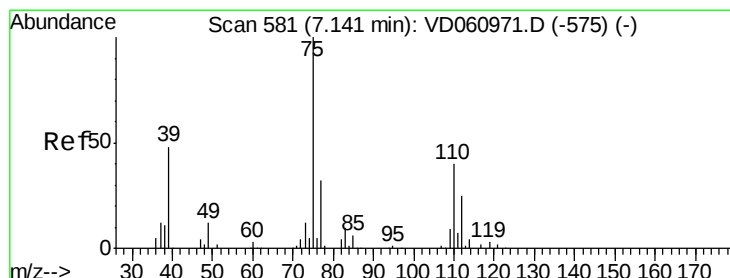
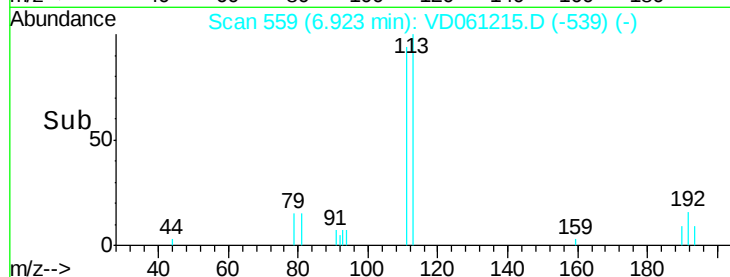
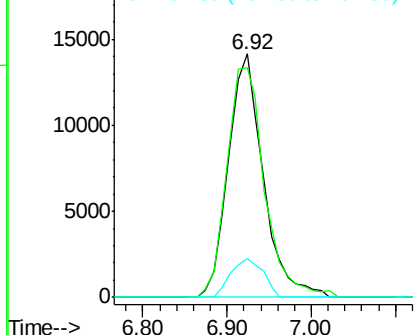
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. -0.00 min
 Lab File: VD061215.D
 Acq: 20 Mar 2019 18:31

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 40693
 Ion Ratio Lower Upper
 113 100
 111 94.0 84.2 126.4
 192 16.1 13.1 19.7

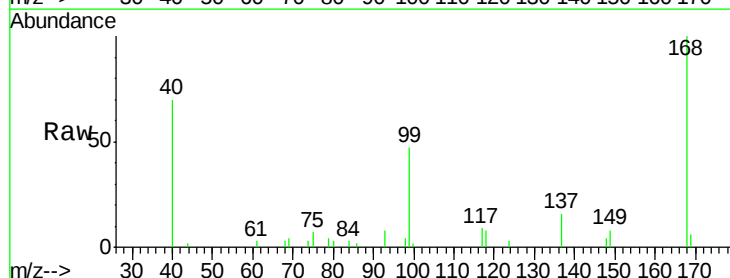


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

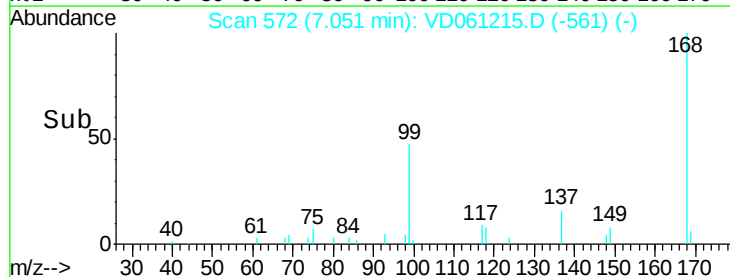
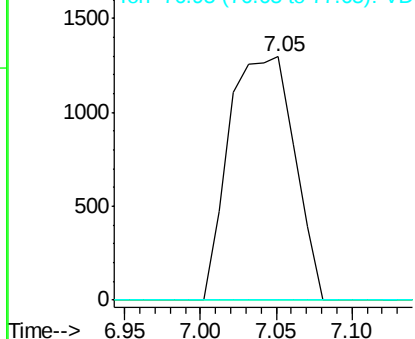


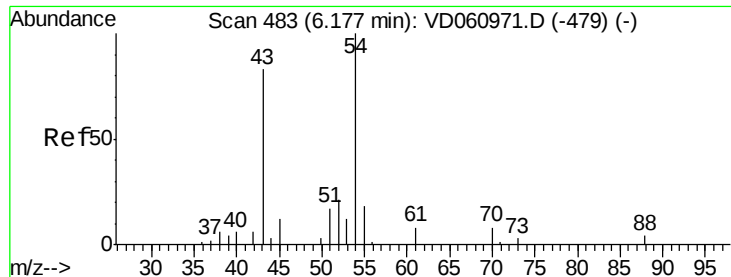
#36
 1,1-Dichloropropene
 Concen: 4.449 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.09 min
 Lab File: VD061215.D
 Acq: 20 Mar 2019 18:31

Tgt Ion: 75 Resp: 3911
 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





#37

Ethyl Acetate

Concen: 6.475 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.11 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

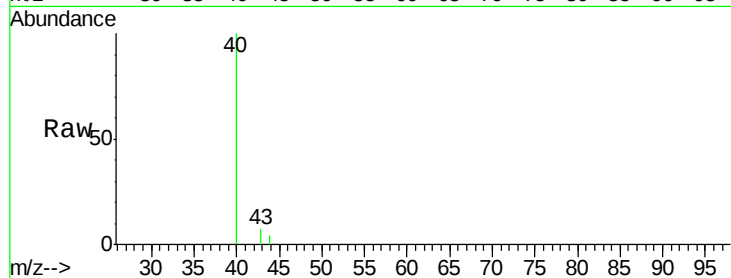
Tot Ion: 43 Resp: 2671

Ion Ratio Lower Upper

43 100

61 0.0 13.7 20.5#

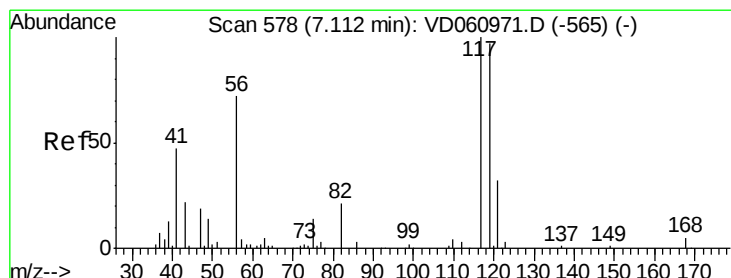
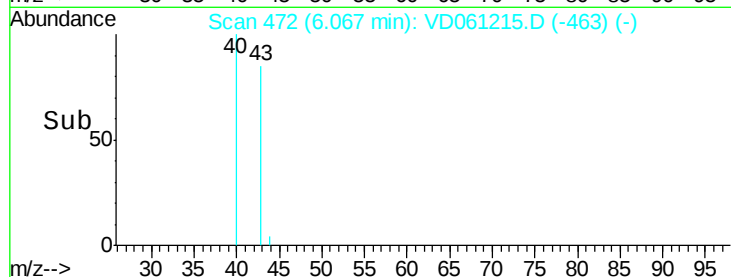
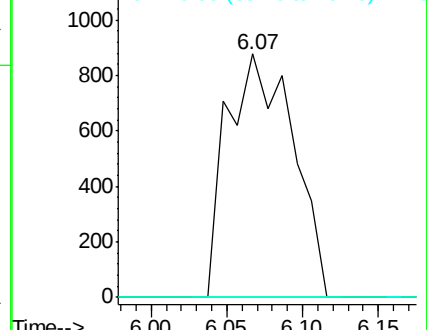
70 0.0 7.1 10.7#



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: 5.193 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

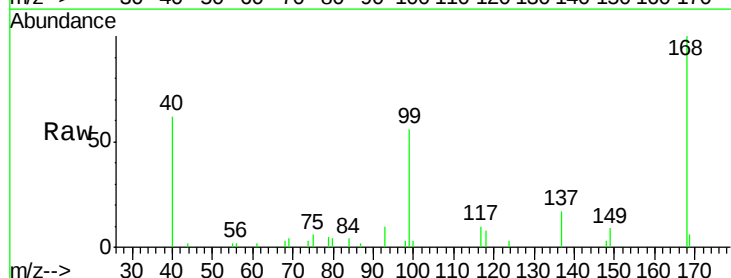
Tgt Ion: 117 Resp: 5029

Ion Ratio Lower Upper

117 100

119 0.0 77.8 116.8#

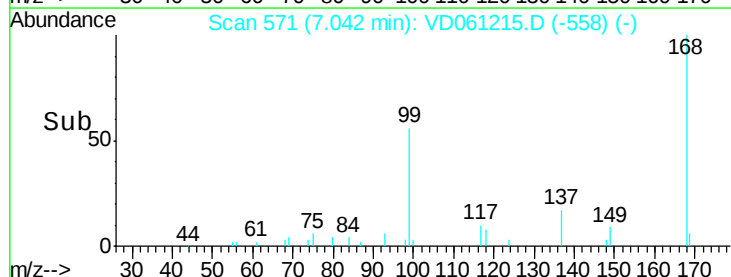
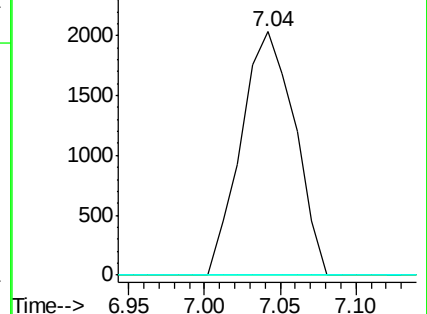
121 0.0 25.3 37.9#

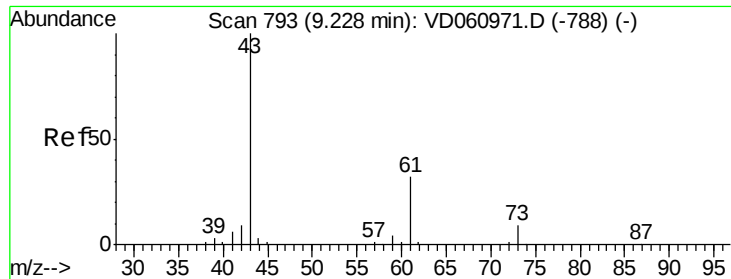


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#43

Isopropyl Acetate

Concen: 2.219 ug/l

RT: 9.29 min Scan# 799

Delta R.T. 0.06 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

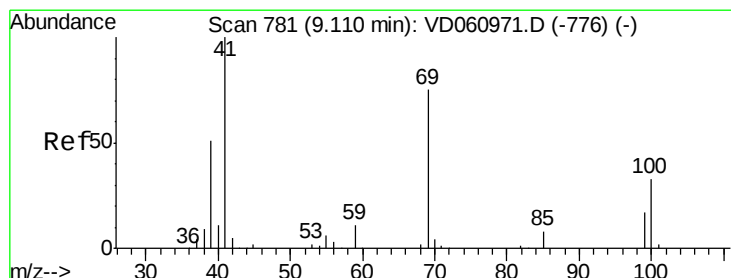
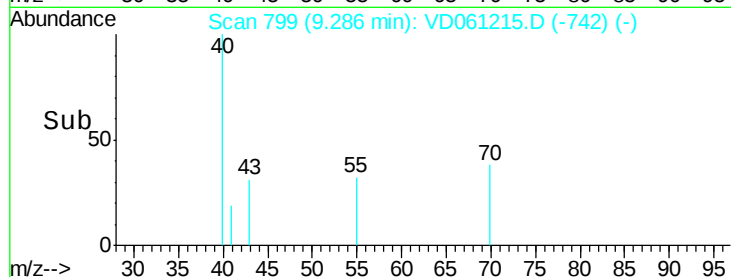
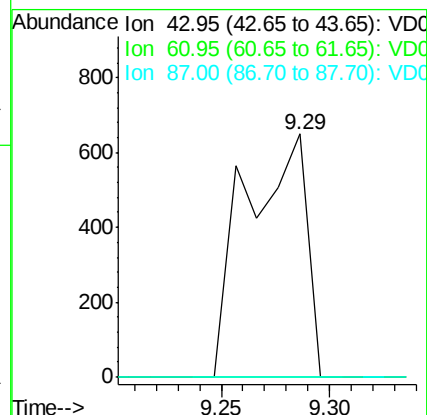
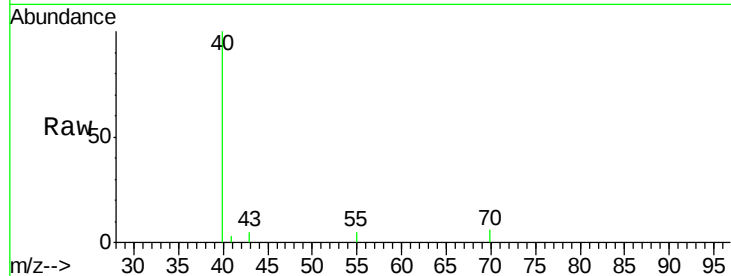
Tot Ion: 43 Resp: 1268

Ion Ratio Lower Upper

43 100

61 0.0 25.6 38.4#

87 0.0 0.2 0.4#



#48

Methyl methacrylate

Concen: 3.326 ug/l

RT: 9.01 min Scan# 771

Delta R.T. -0.10 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

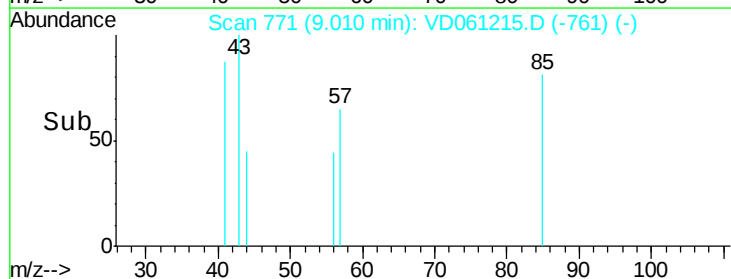
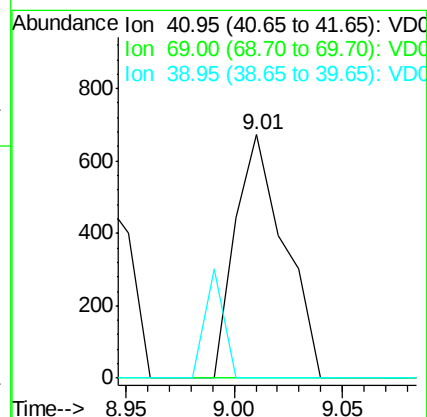
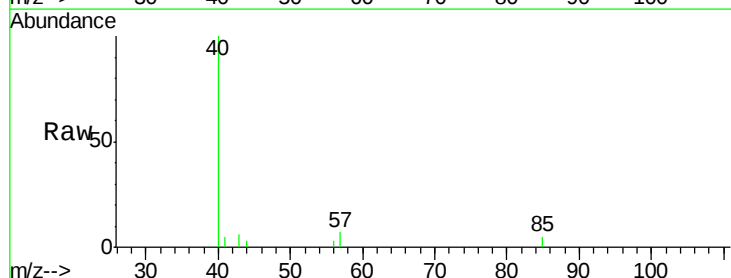
Tgt Ion: 41 Resp: 1070

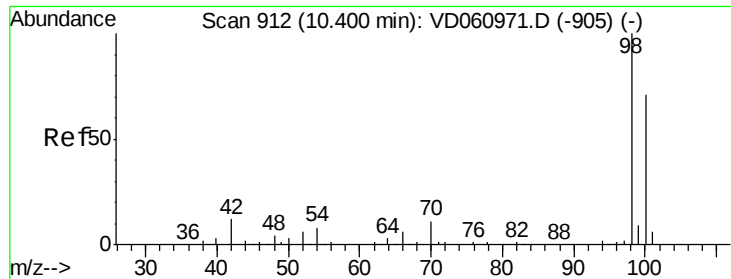
Ion Ratio Lower Upper

41 100

69 0.0 59.9 89.9#

39 0.0 40.9 61.3#

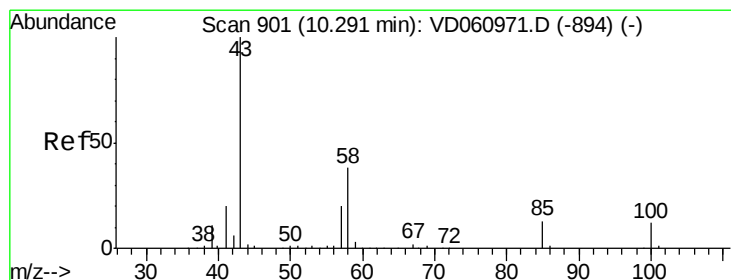
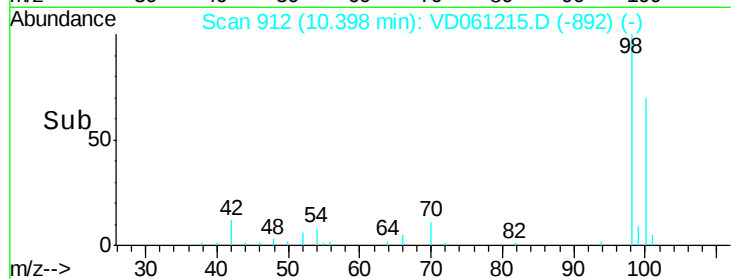
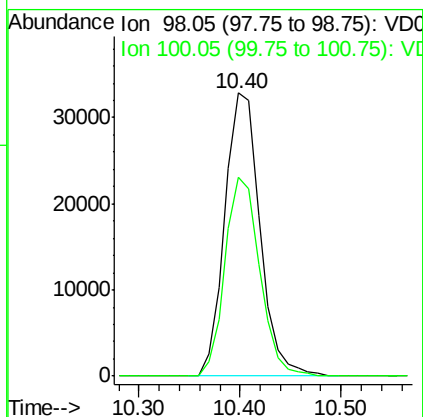
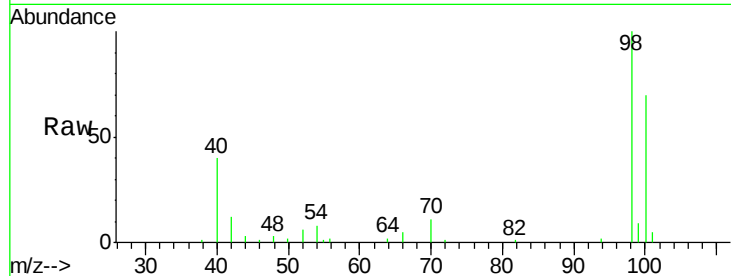




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD061215.D
Acq: 20 Mar 2019 18:31

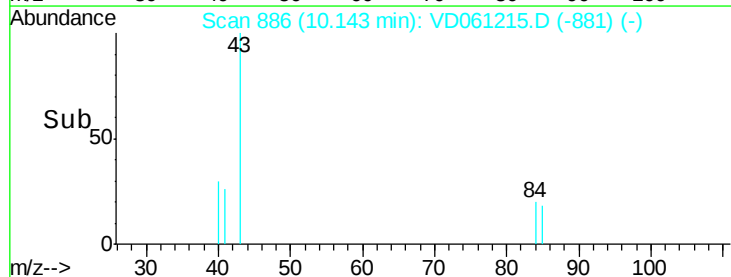
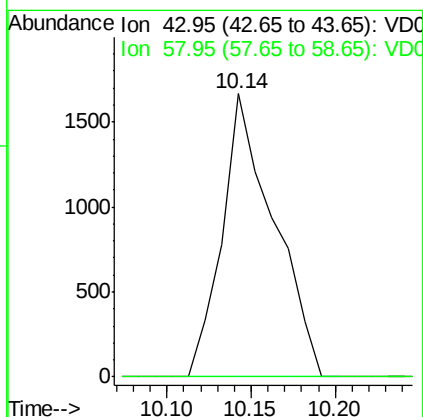
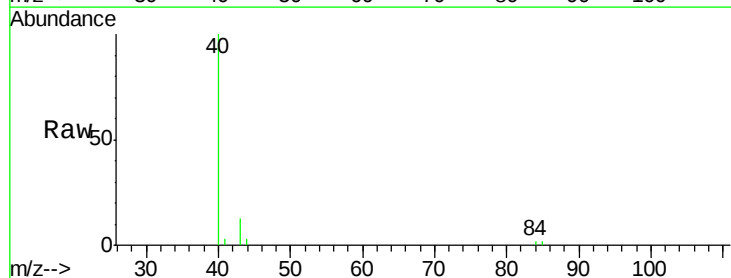
Instrument :
MSVOA_D
ClientSampleId :

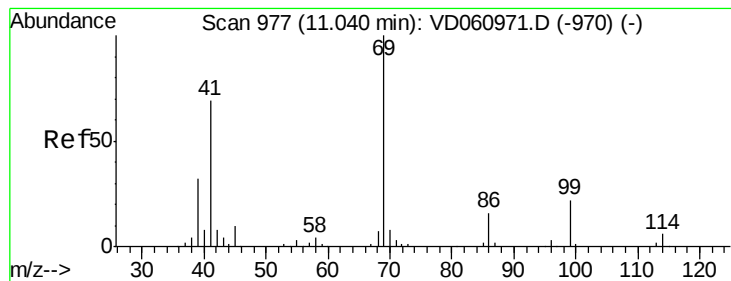
Tot Ion: 98 Resp: 79667
Ion Ratio Lower Upper
98 100
100 70.1 57.4 86.2



#51
4-Methyl-2-Pentanone
Concen: 10.151 ug/l
RT: 10.14 min Scan# 886
Delta R.T. -0.15 min
Lab File: VD061215.D
Acq: 20 Mar 2019 18:31

Tgt Ion: 43 Resp: 3553
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#





#56

Ethyl methacrylate

Concen: 4.156 ug/l

RT: 10.91 min Scan# 964

Delta R.T. -0.13 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

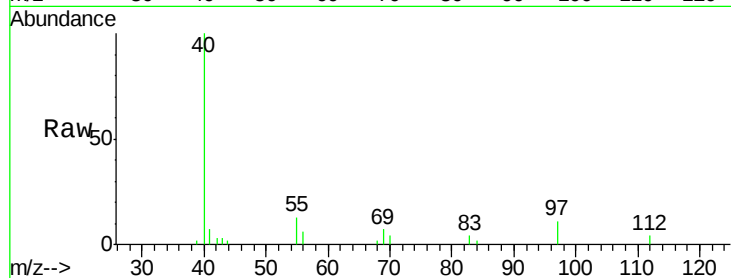
Tot Ion: 69 Resp: 1979

Ion Ratio Lower Upper

69 100

41 88.0 55.5 83.3#

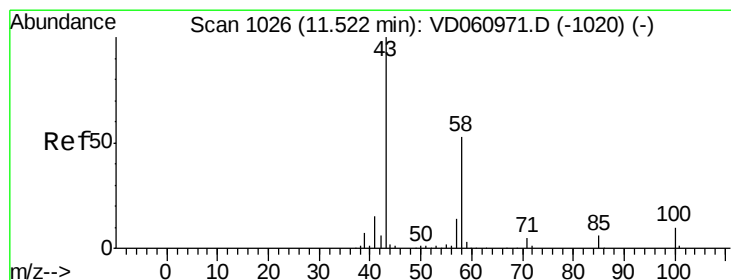
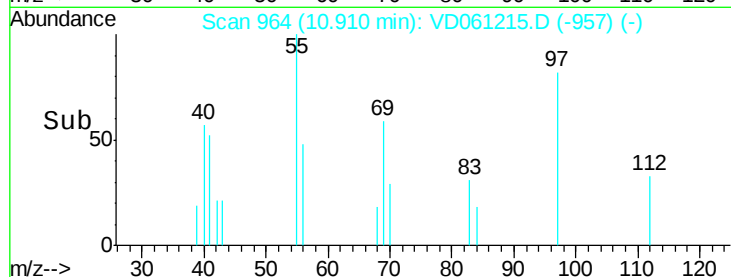
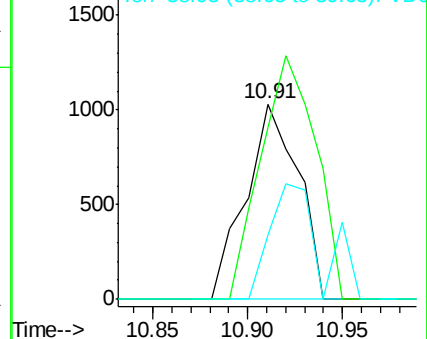
39 33.0 26.2 39.2



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: 2.468 ug/l

RT: 11.49 min Scan# 1023

Delta R.T. -0.03 min

Lab File: VD061215.D

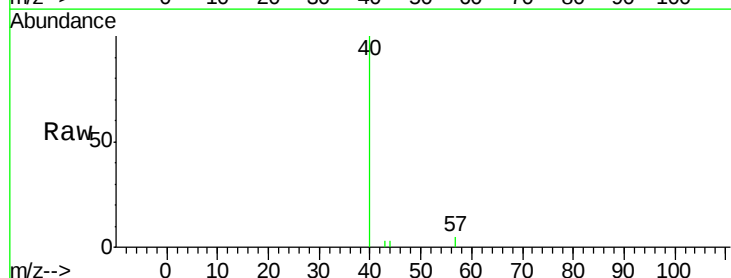
Acq: 20 Mar 2019 18:31

Tgt Ion: 43 Resp: 632

Ion Ratio Lower Upper

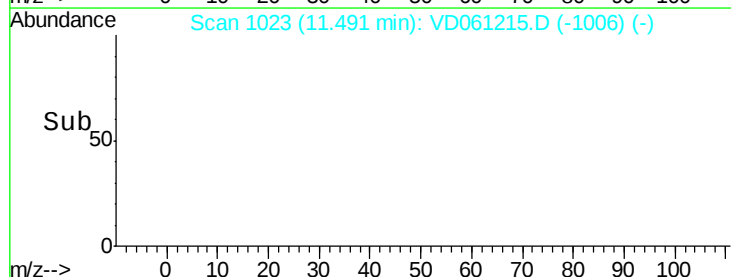
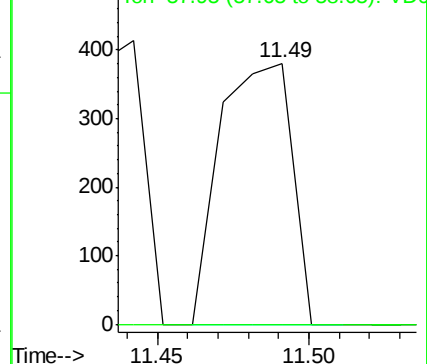
43 100

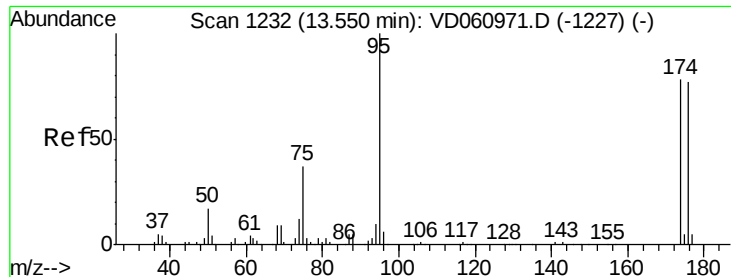
58 0.0 26.5 79.5#



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: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

Instrument :

MSVOA_D

ClientSampled :

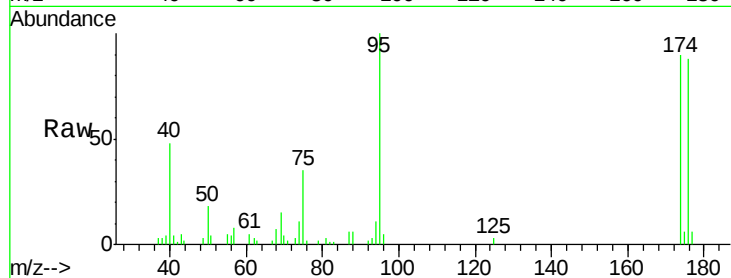
Tot Ion: 95 Resp: 35545

Ion Ratio Lower Upper

95 100

174 90.1 0.0 155.6

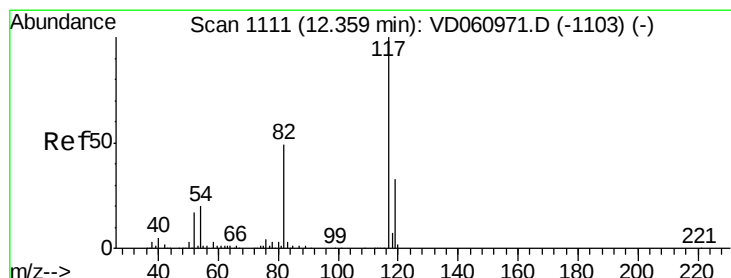
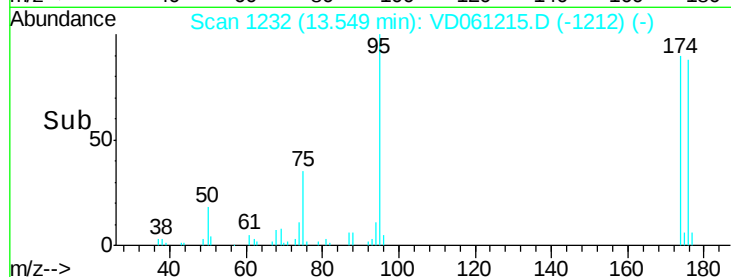
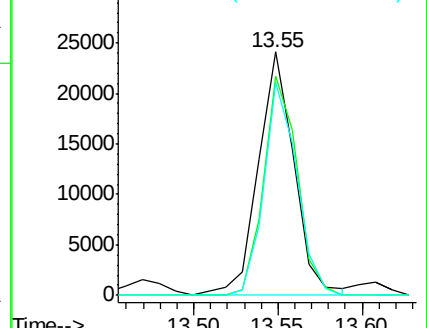
176 87.6 0.0 153.8



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. -0.00 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

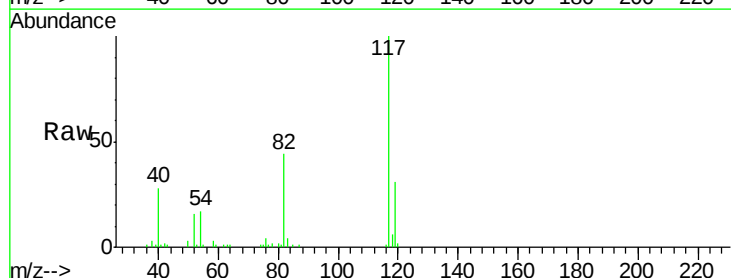
Tgt Ion: 117 Resp: 88170

Ion Ratio Lower Upper

117 100

82 44.1 38.9 58.3

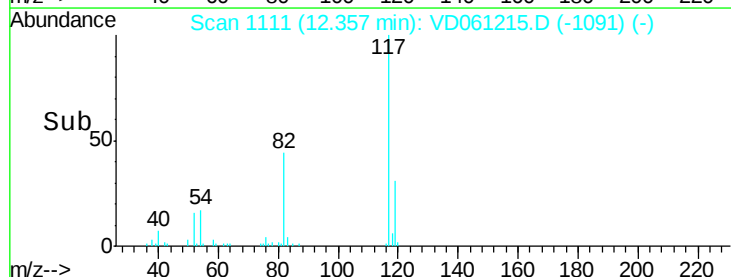
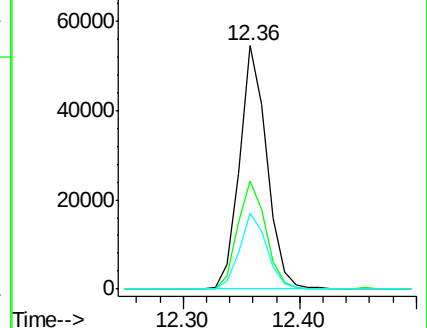
119 31.2 26.6 39.8

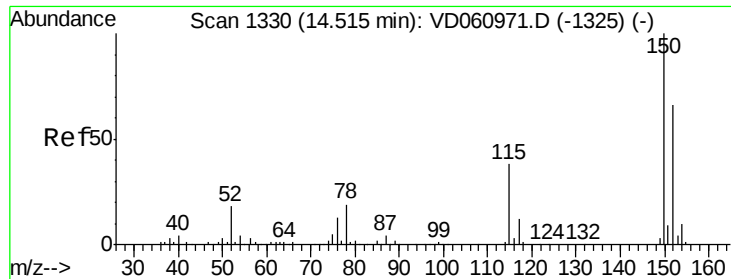


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.51 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

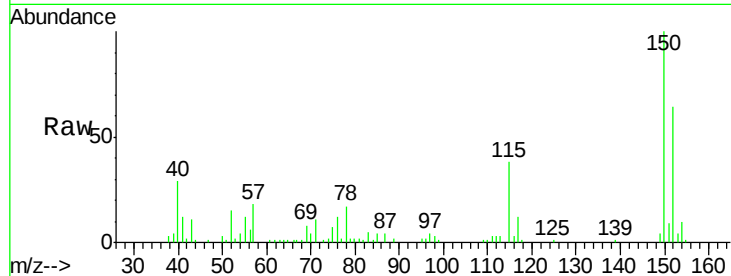
Tot Ion:152 Resp: 35809

Ion Ratio Lower Upper

152 100

115 58.8 28.6 85.9

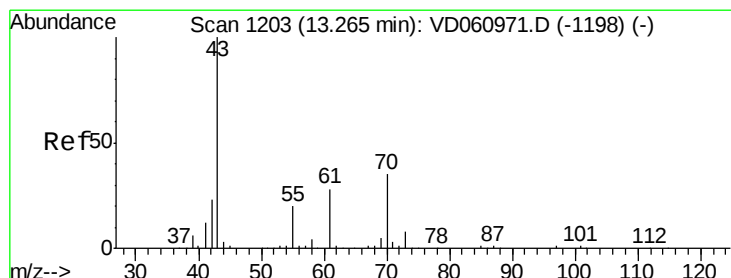
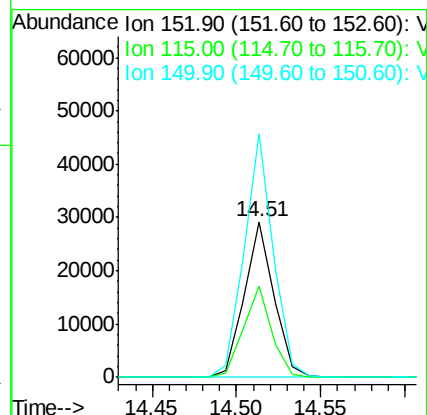
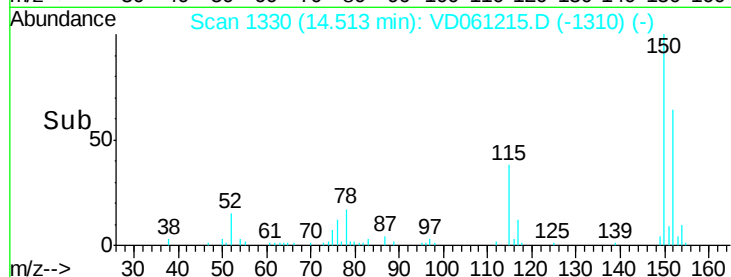
150 156.5 0.0 310.6



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-ethyl acetate

Concen: 6.939 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

Tgt Ion: 43 Resp: 5042

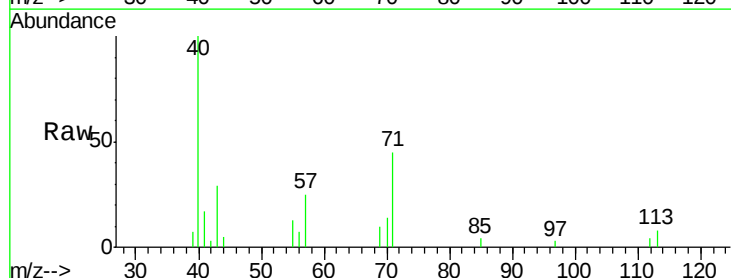
Ion Ratio Lower Upper

43 100

70 49.7 27.7 41.5#

55 45.5 16.2 24.2#

61 0.0 22.3 33.5#

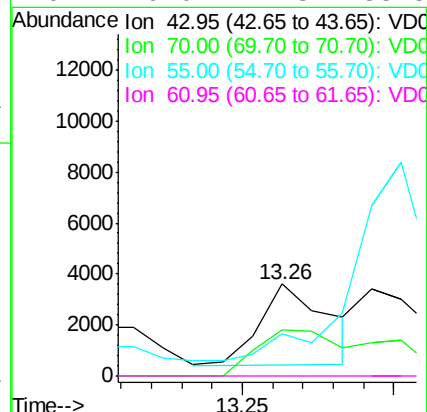
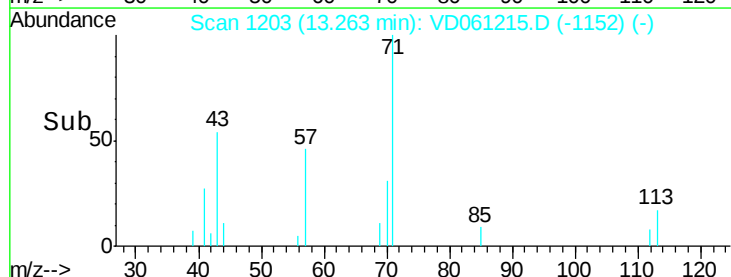


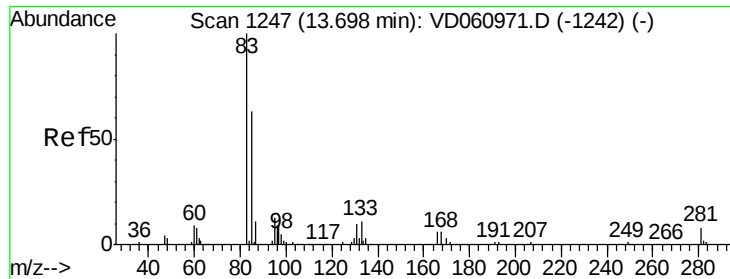
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 7.295 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

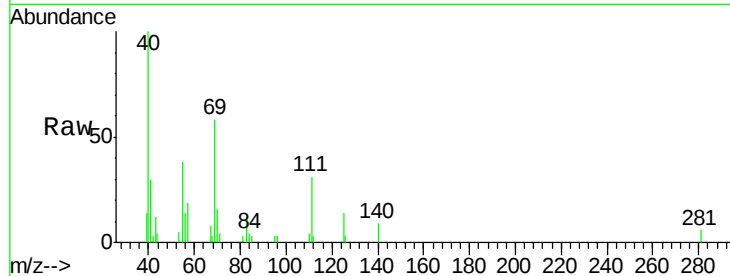
Tot Ion: 83 Resp: 3673

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

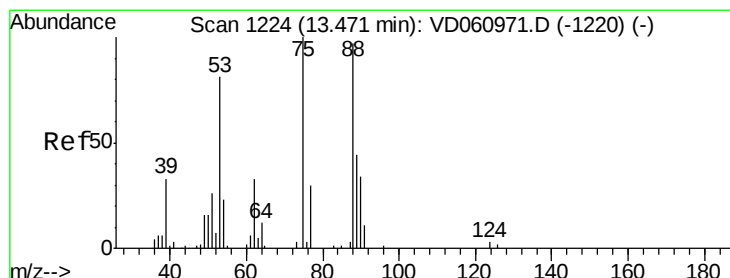
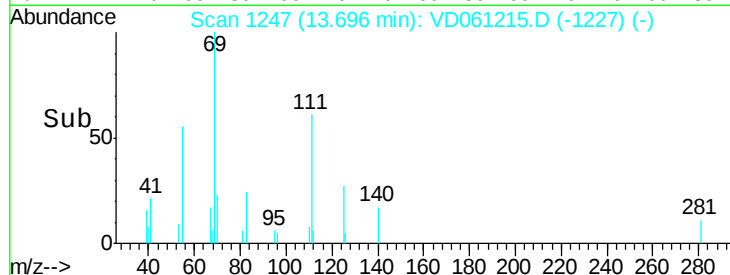
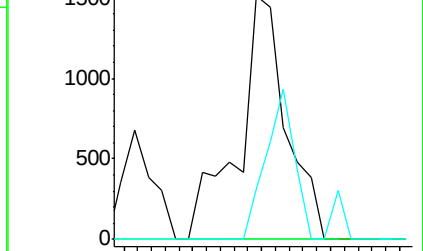
85 21.0 31.5 94.5#



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



#81

trans-1,4-Dichloro-2-butene

Concen: 75.406 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061215.D

Acq: 20 Mar 2019 18:31

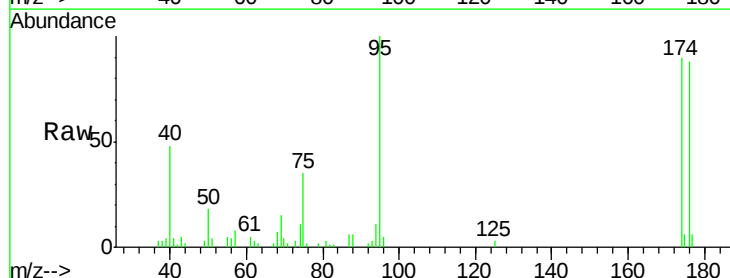
Tgt Ion: 75 Resp: 11453

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

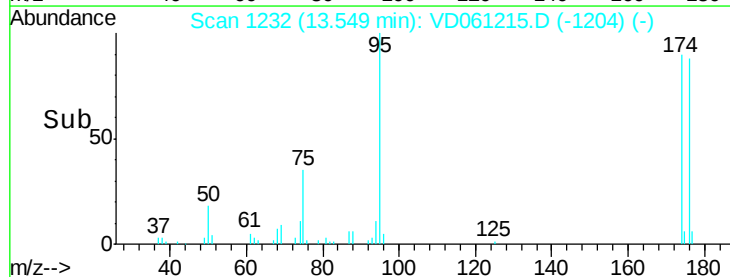
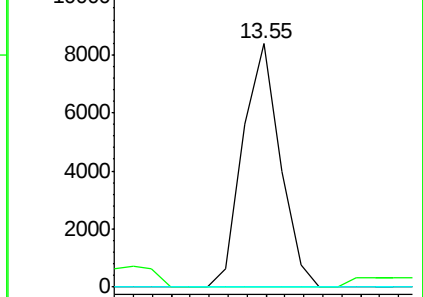
89 0.0 34.8 52.2#

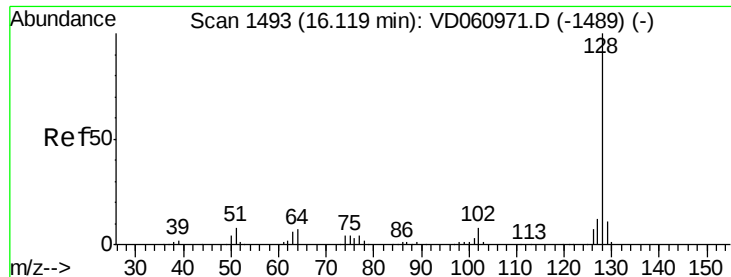


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95
Naphthalene
Concen: 1.331 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD061215.D
Acq: 20 Mar 2019 18:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 920
Ion Ratio Lower Upper
128 100
127 0.0 9.8 14.8#
129 0.0 8.5 12.7#

