

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031419\
 Data File : VD061076.D
 Acq On : 14 Mar 2019 20:31
 Operator : VA/AP
 Sample : K1908-03
 Misc : 5.84g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 101-102

Quant Time: Mar 15 02:14:32 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	522103	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	925632	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	714701	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	274710	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	270815	62.32	ug/l	0.01
Spiked Amount	50.000		Recovery	=	124.64%	
35) Dibromofluoromethane	6.94	113	420908	61.27	ug/l	0.01
Spiked Amount	50.000		Recovery	=	122.54%	
50) Toluene-d8	10.41	98	918135	53.22	ug/l	0.01
Spiked Amount	50.000		Recovery	=	106.44%	
62) 4-Bromofluorobenzene	13.55	95	323774	48.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.74%	

Target Compounds

					Qvalue	
5) Bromomethane	2.18	94	206	Below Cal	#	8
8) Diethyl Ether	2.89	74	2520	1.336	ug/l	99
16) Acetone	3.23	43	52655	42.370	ug/l	97
18) Methyl Acetate	3.66	43	2877	1.176	ug/l #	59
20) Methylene Chloride	3.84	84	50749	4.734	ug/l	93
25) 2-Butanone	6.09	43	2018	1.431	ug/l #	55
31) Cyclohexane	7.06	56	9680	1.259	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	38033	4.767	ug/l #	46
38) Carbon Tetrachloride	7.06	117	48625	5.533	ug/l #	15
51) 4-Methyl-2-Pentanone	10.42	43	4087	1.286	ug/l #	1
52) Toluene	10.52	92	17852	1.440	ug/l	98
68) m/p-Xylenes	12.67	106	12095	1.477	ug/l	86
69) o-Xylene	13.05	106	9505	1.181	ug/l	87
76) 1,2,3-Trichloropropane	13.55	75	99818	25.256	ug/l #	44
80) 1,3,5-Trimethylbenzene	14.24	105	30585	2.035	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.55	75	115821	99.401	ug/l #	17
84) 1,2,4-Trimethylbenzene	14.24	105	30585	2.035	ug/l	99
85) sec-Butylbenzene	14.24	105	30585	1.523	ug/l #	58
95) Naphthalene	16.12	128	84793	15.988	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

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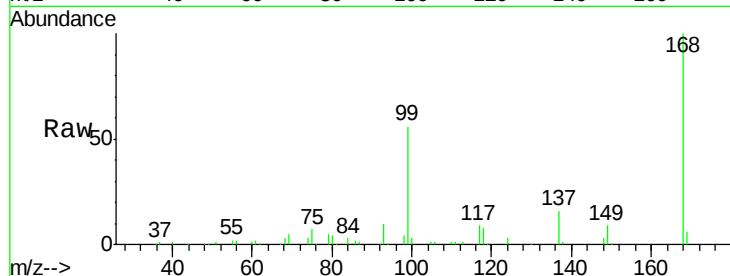
101-102

Tot Ion:168 Resp: 522103

Ion Ratio Lower Upper

168 100

99 56.2 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

150000

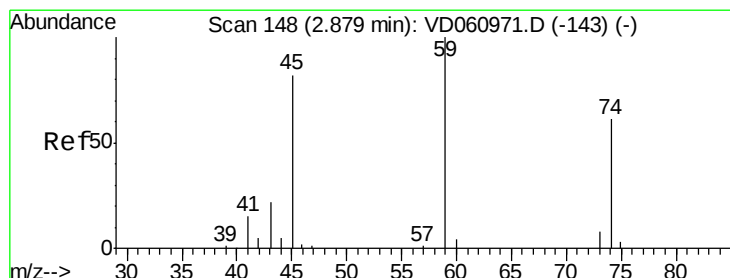
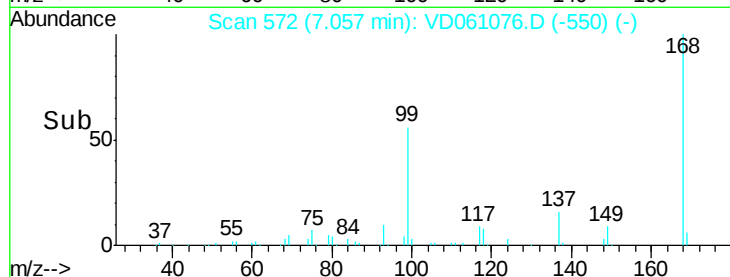
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#8

Diethyl Ether

Concen: 1.336 ug/l

RT: 2.89 min Scan# 149

Delta R.T. 0.01 min

Lab File: VD061076.D

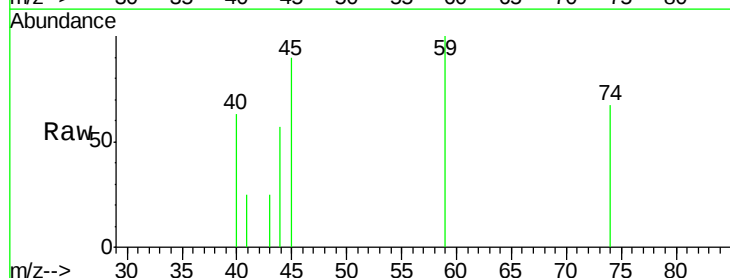
Acq: 14 Mar 2019 20:31

Tgt Ion: 74 Resp: 2520

Ion Ratio Lower Upper

74 100

45 135.2 67.0 201.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2000

1500

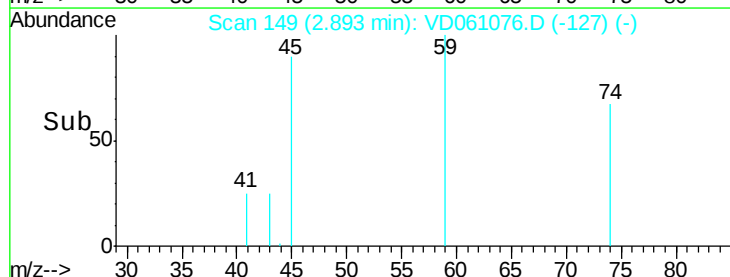
1000

500

0

Time-->

2.85 2.90 2.95





#16

Acetone

Concen: 42.370 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD061076.D

Acq: 14 Mar 2019 20:31

Instrument :

MSVOA_D

ClientSampleId :

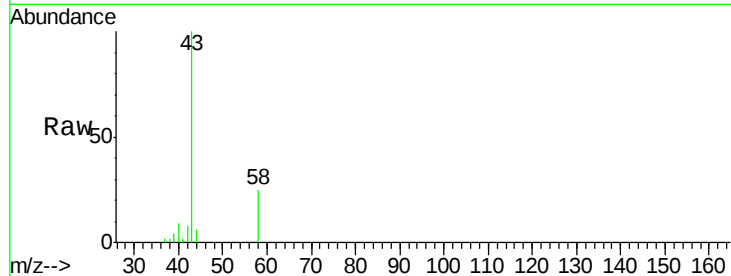
101-102

Tot Ion: 43 Resp: 52655

Ion Ratio Lower Upper

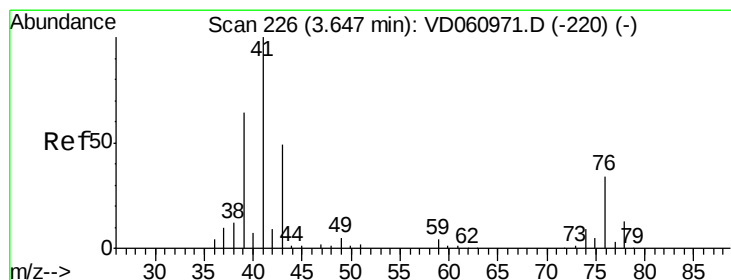
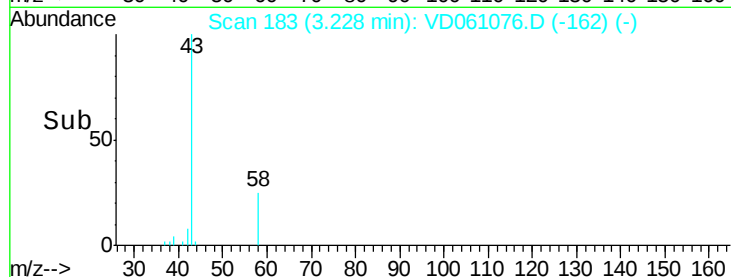
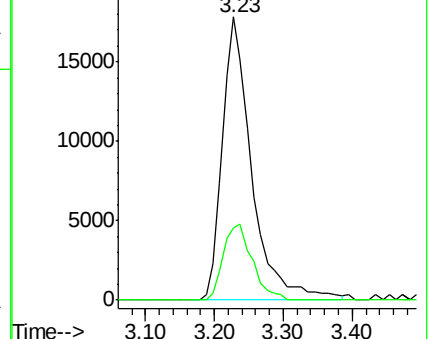
43 100

58 25.4 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.176 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD061076.D

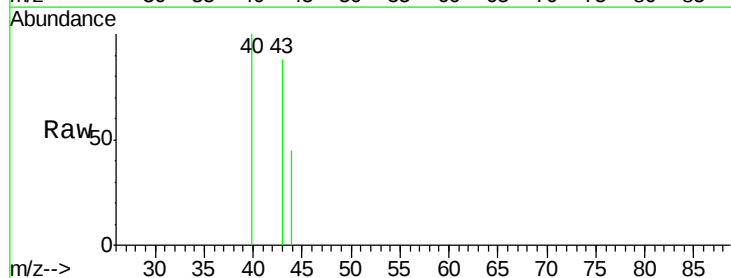
Acq: 14 Mar 2019 20:31

Tgt Ion: 43 Resp: 2877

Ion Ratio Lower Upper

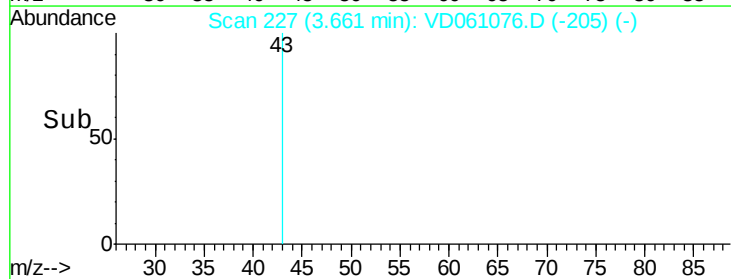
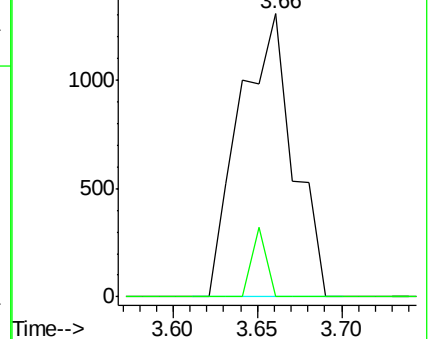
43 100

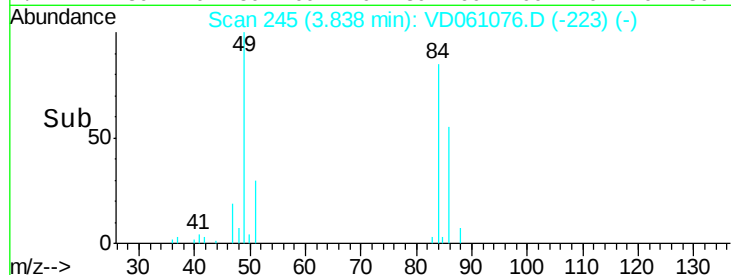
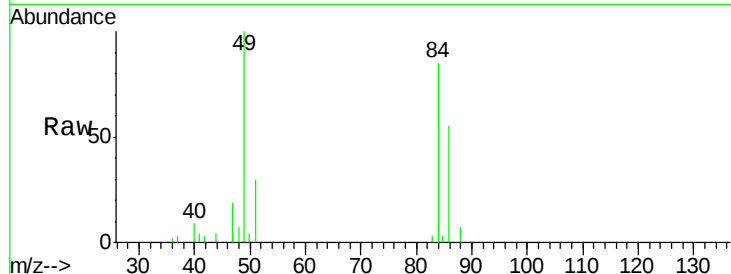
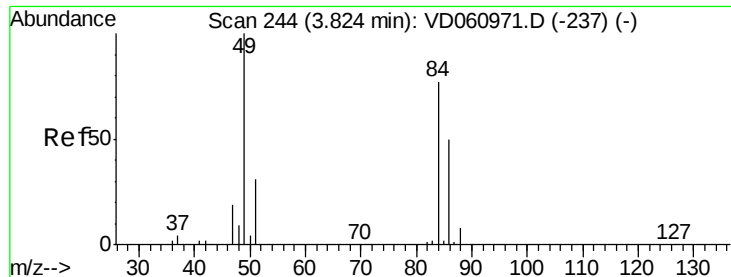
74 0.0 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

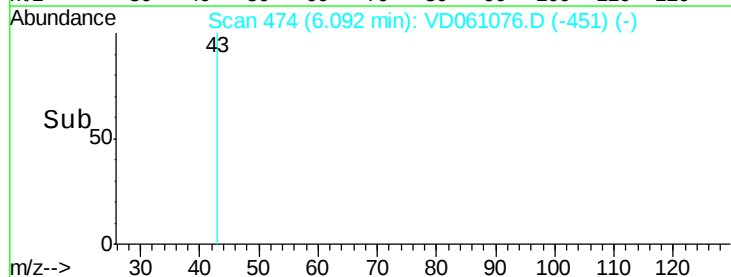
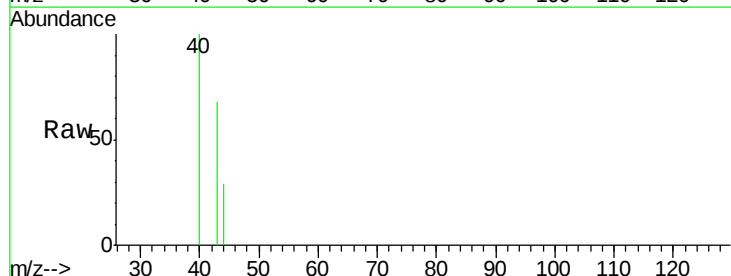
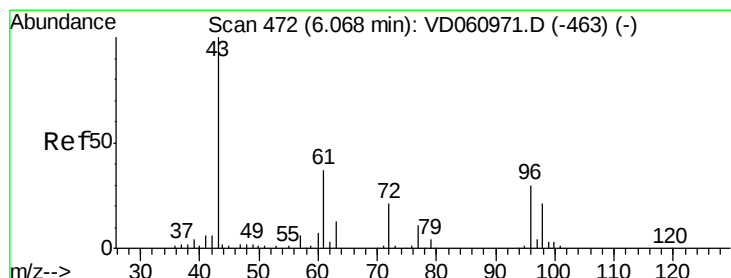
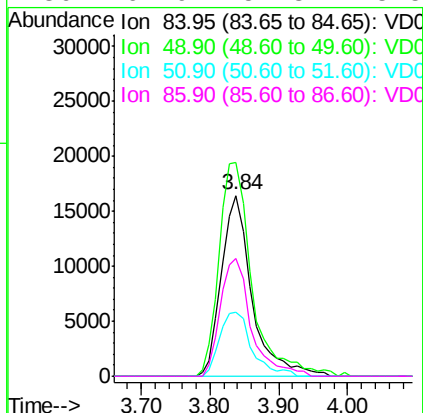




#20
Methylene Chloride
Concen: 4.734 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.02 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

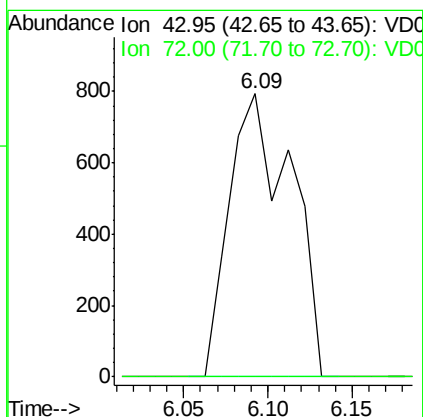
Instrument :
MSVOA_D
ClientSampleId :
101-102

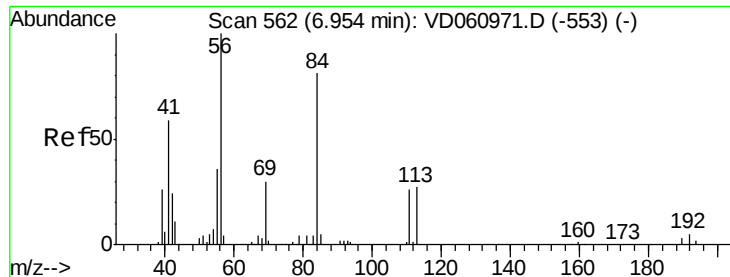
Tot Ion:	84	Resp:	50749
Ion	Ratio	Lower	Upper
84	100		
49	118.0	104.2	156.2
51	35.3	32.3	48.5
86	64.9	52.3	78.5



#25
2-Butanone
Concen: 1.431 ug/l
RT: 6.09 min Scan# 474
Delta R.T. 0.02 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

Tgt Ion:	43	Resp:	2018
Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.7	25.1#

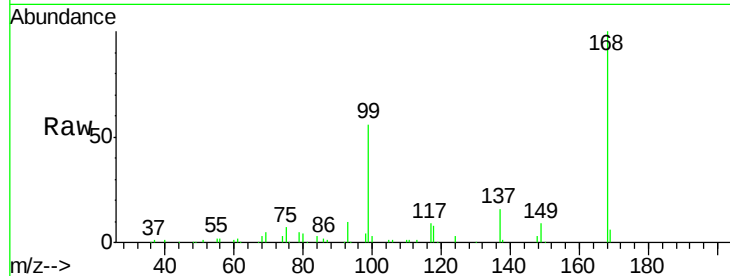




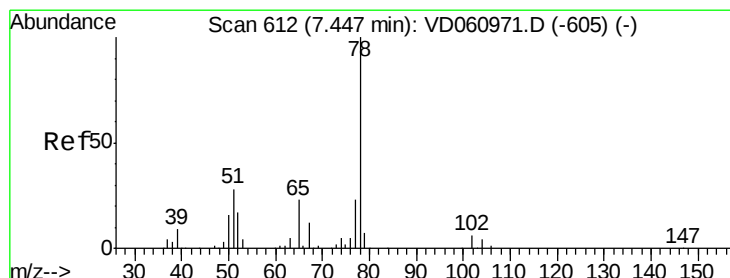
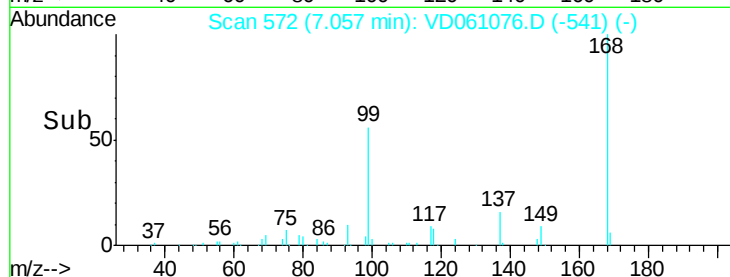
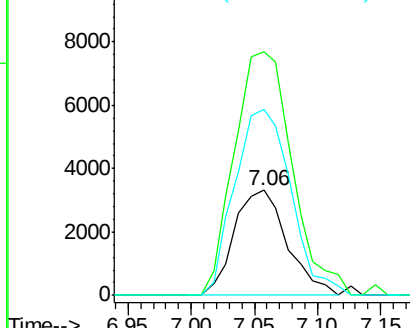
#31
Cyclohexane
Concen: 1.259 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.10 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

Instrument :
MSVOA_D
ClientSampleId :
101-102

Tot Ion: 56 Resp: 9680
Ion Ratio Lower Upper
56 100
69 231.2 24.0 36.0#
84 176.7 65.8 98.6#

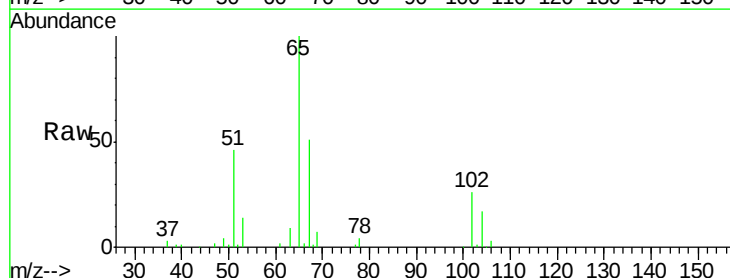


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

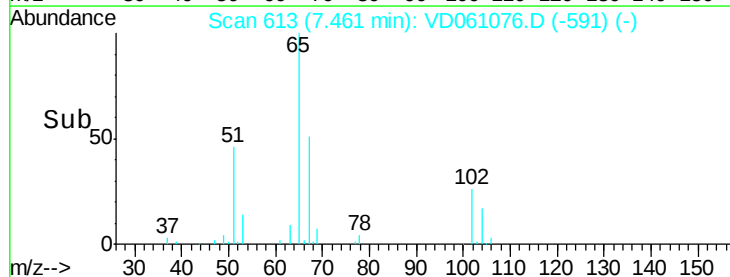
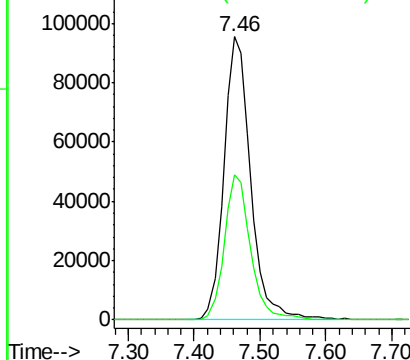


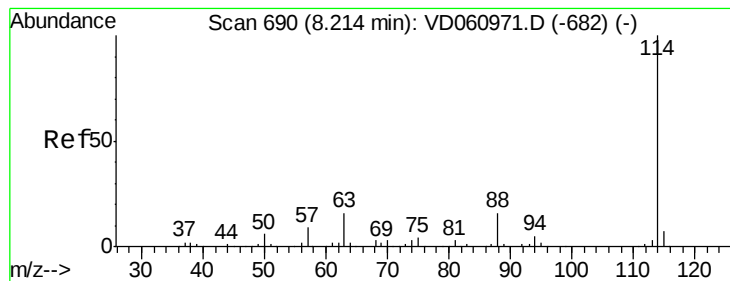
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

Tgt Ion: 65 Resp: 270815
Ion Ratio Lower Upper
65 100
67 51.3 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: VD061076.D

Acq: 14 Mar 2019 20:31

Instrument :

MSVOA_D

ClientSampleId :

101-102

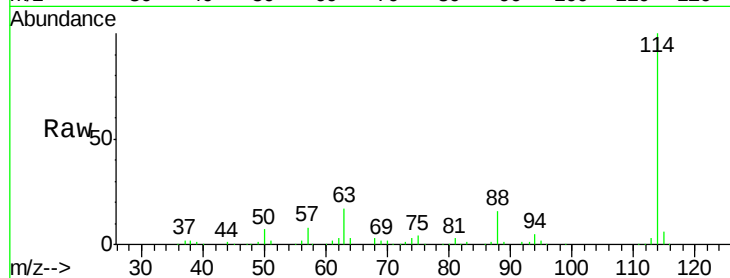
Tot Ion:114 Resp: 925632

Ion Ratio Lower Upper

114 100

63 16.6 0.0 31.4

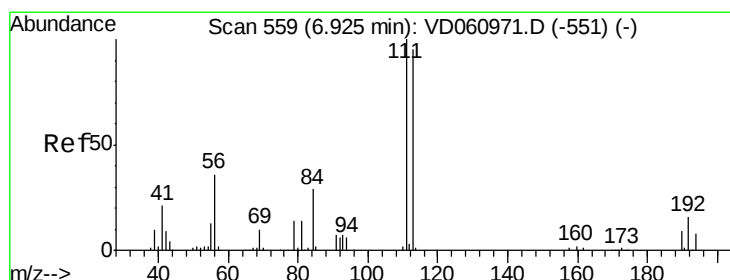
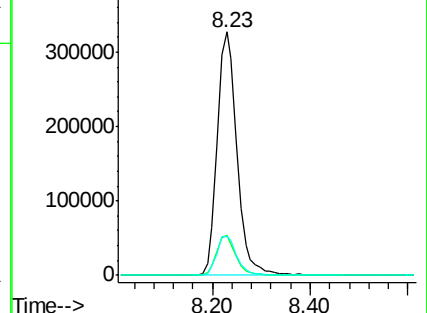
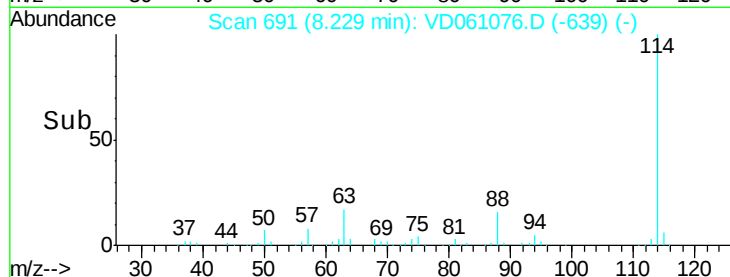
88 16.1 0.0 33.0



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: VD061076.D

Acq: 14 Mar 2019 20:31

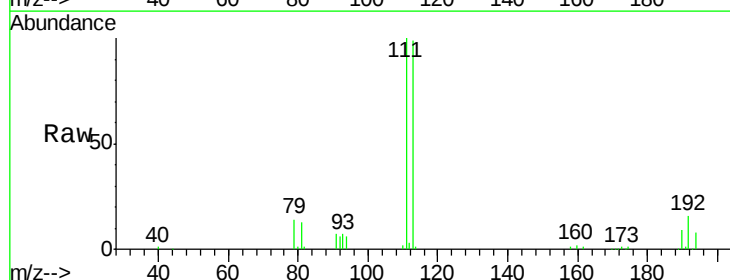
Tgt Ion:113 Resp: 420908

Ion Ratio Lower Upper

113 100

111 101.5 84.2 126.4

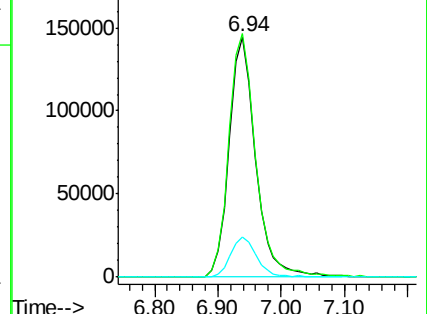
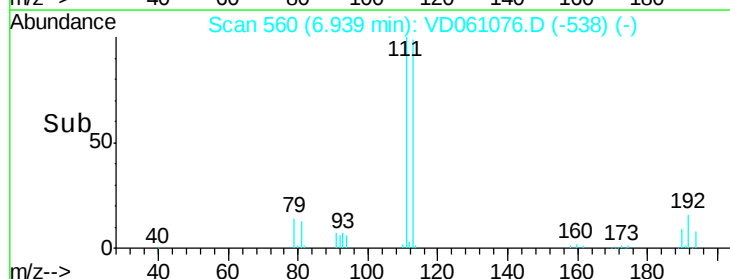
192 16.5 13.1 19.7

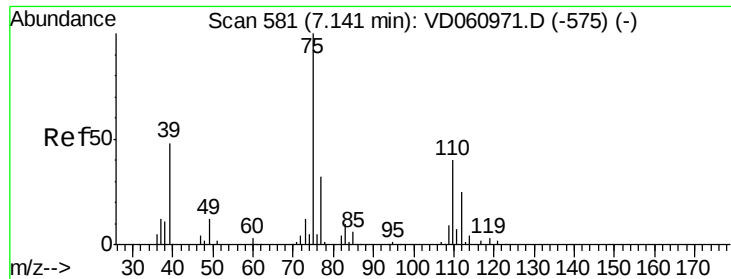


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

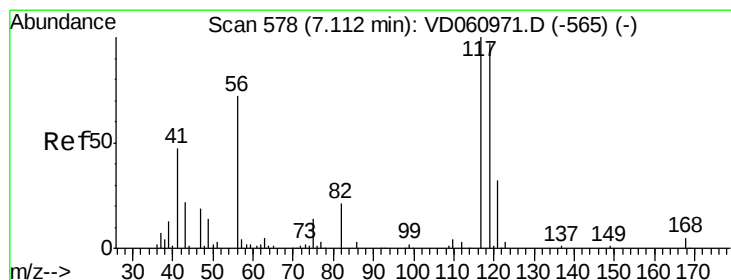
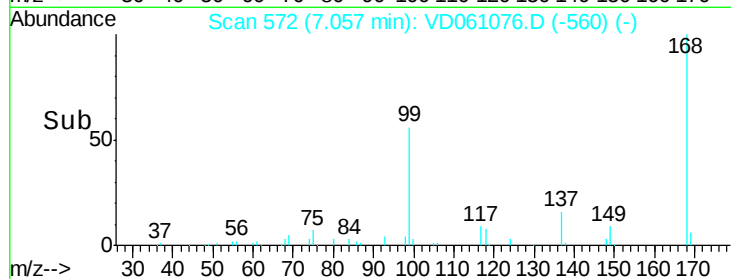
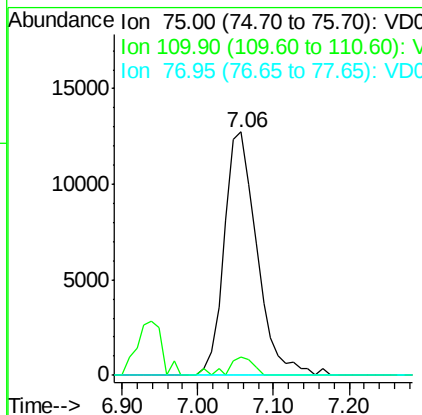
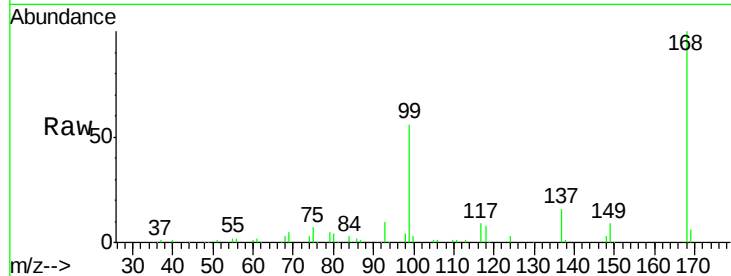




#36
 1,1-Dichloropropene
 Concen: 4.767 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.08 min
 Lab File: VD061076.D
 Acq: 14 Mar 2019 20:31

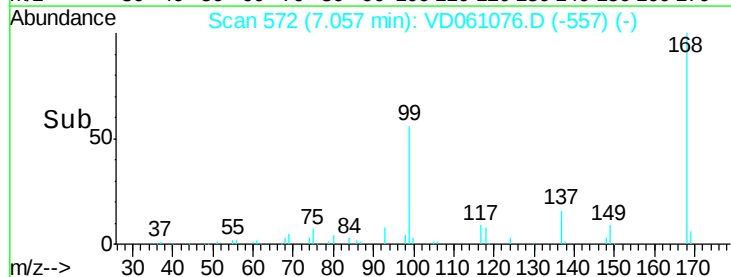
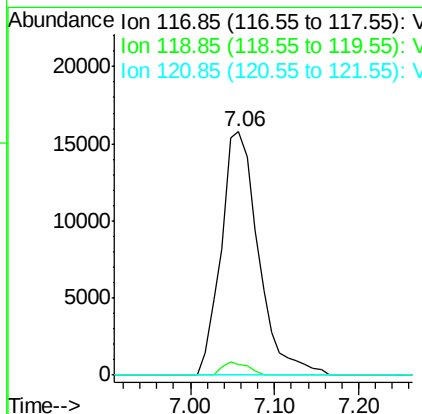
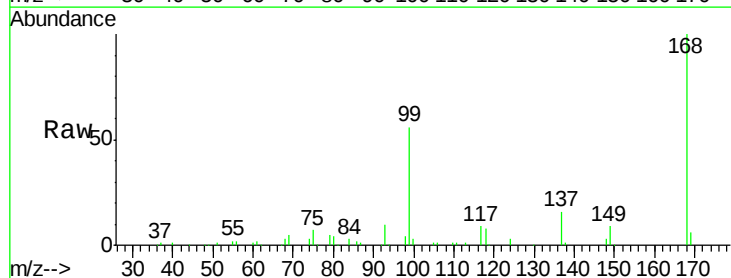
Instrument :
 MSVOA_D
 ClientSampleId :
 101-102

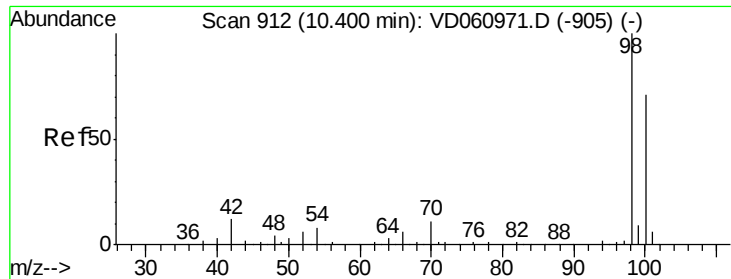
Tot Ion	75	Resp	38033
Ion Ratio	Lower	Upper	
75	100		
110	7.4	19.7	59.1#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 5.533 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.05 min
 Lab File: VD061076.D
 Acq: 14 Mar 2019 20:31

Tgt Ion	117	Resp	48625
Ion Ratio	Lower	Upper	
117	100		
119	4.3	77.8	116.8#
121	0.0	25.3	37.9#

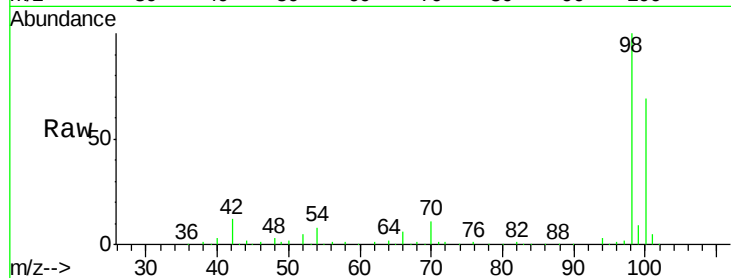




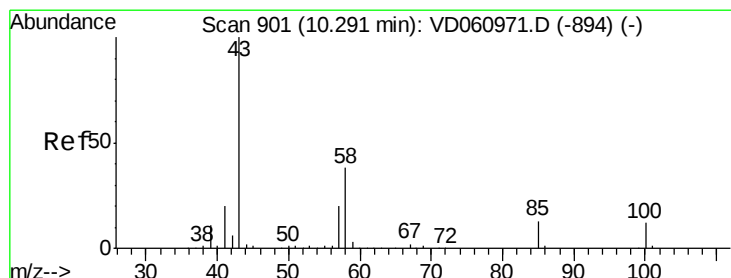
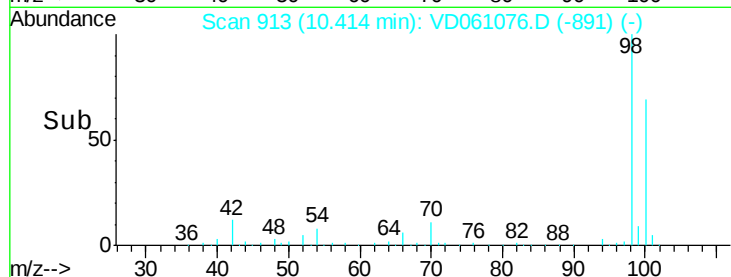
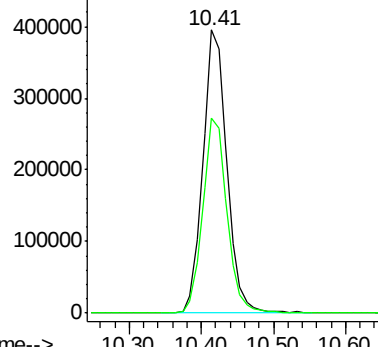
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

Instrument :
MSVOA_D
ClientSampleId :
101-102

Tot Ion: 98 Resp: 918135
Ion Ratio Lower Upper
98 100
100 69.0 57.4 86.2

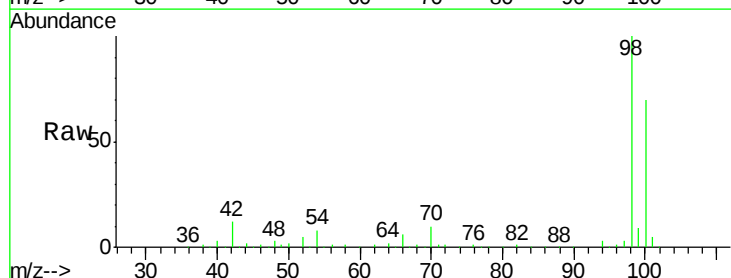


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

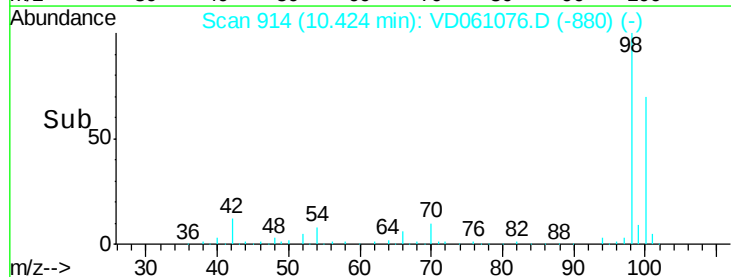
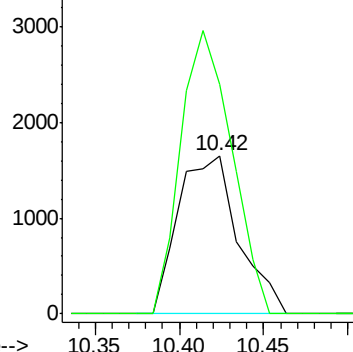


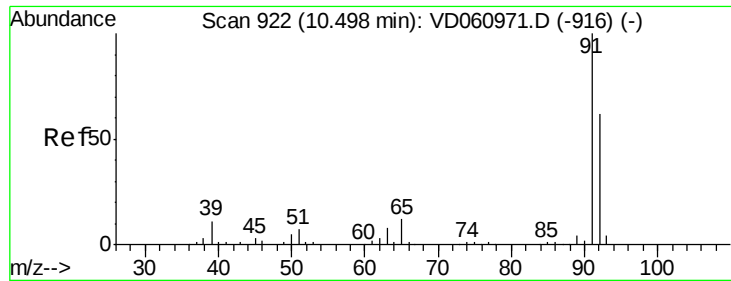
#51
4-Methyl-2-Pentanone
Concen: 1.286 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.13 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

Tgt Ion: 43 Resp: 4087
Ion Ratio Lower Upper
43 100
58 145.6 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 1.440 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD061076.D

Acq: 14 Mar 2019 20:31

Instrument :

MSVOA_D

ClientSampleId :

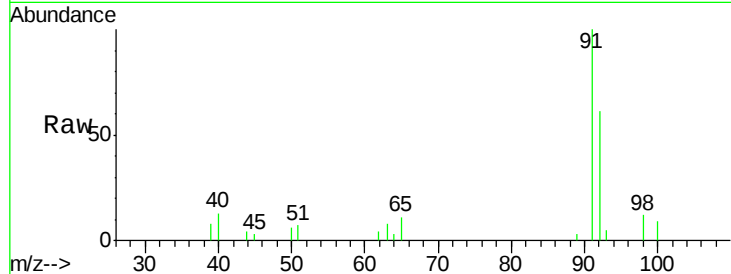
101-102

Tot Ion: 92 Resp: 17852

Ion Ratio Lower Upper

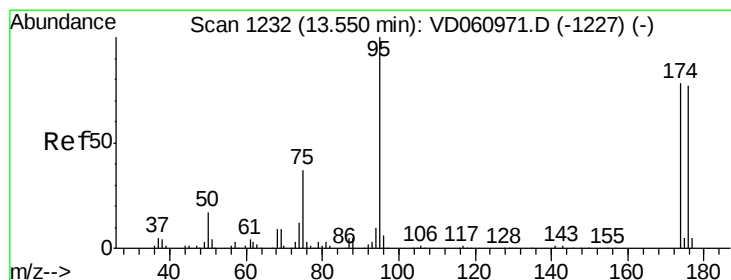
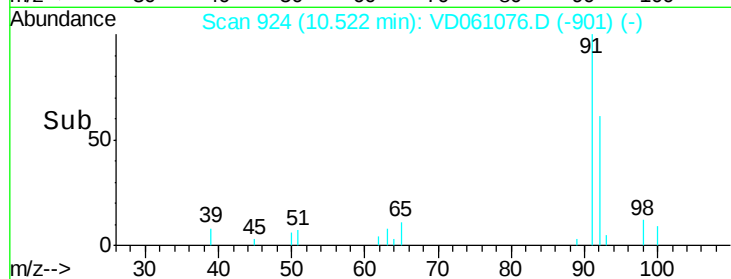
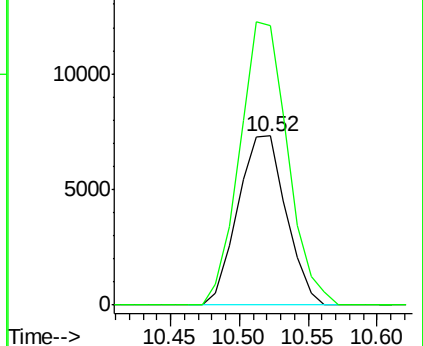
92 100

91 165.1 129.8 194.8



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: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061076.D

Acq: 14 Mar 2019 20:31

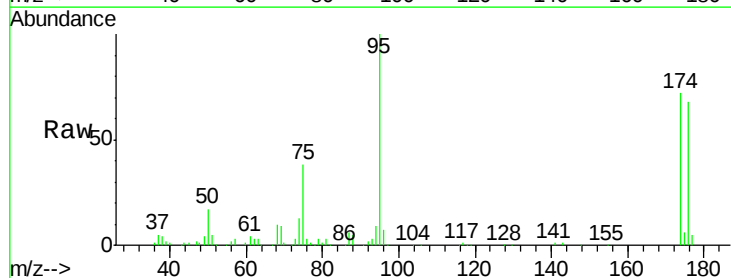
Tgt Ion: 95 Resp: 323774

Ion Ratio Lower Upper

95 100

174 71.5 0.0 155.6

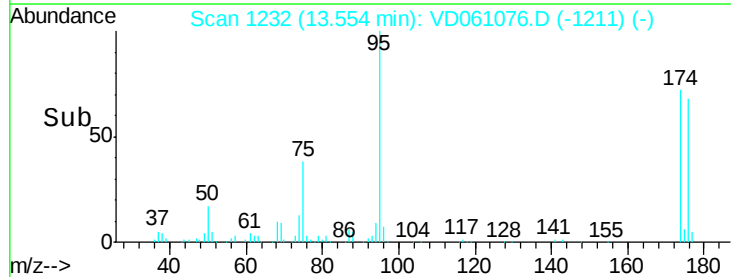
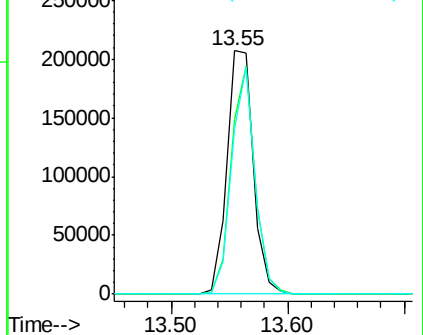
176 68.1 0.0 153.8

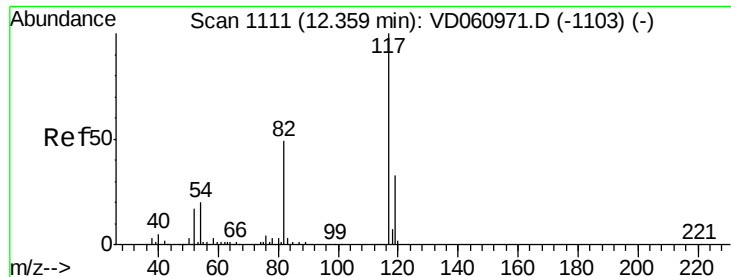


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

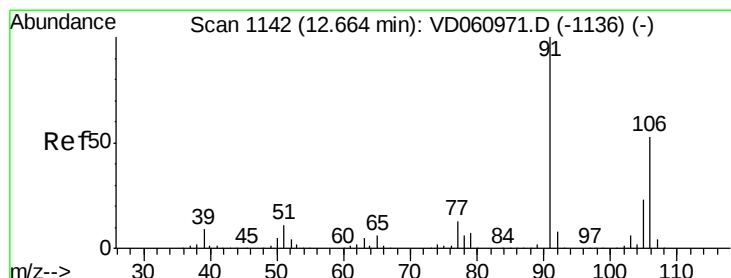
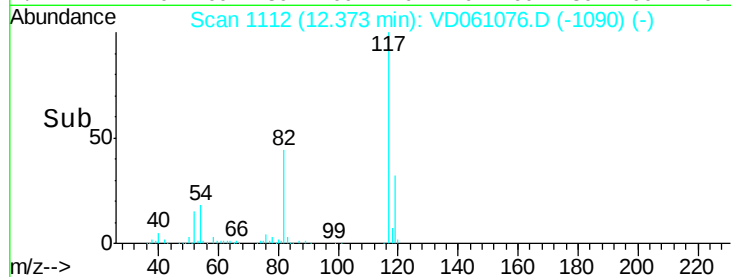
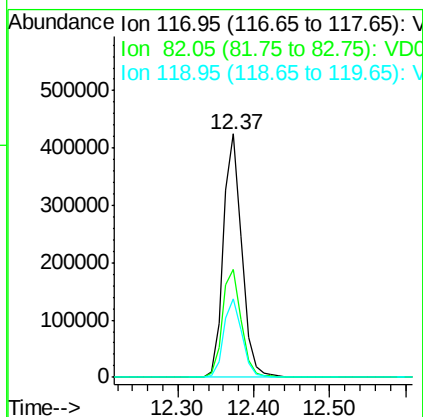
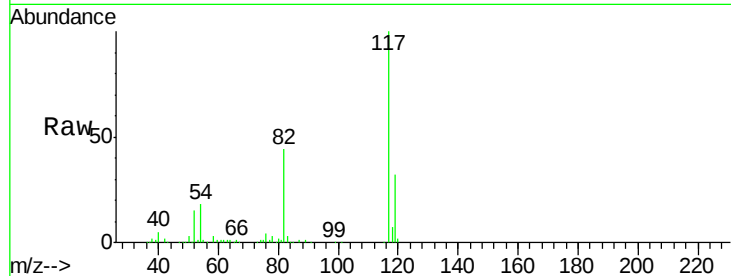




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

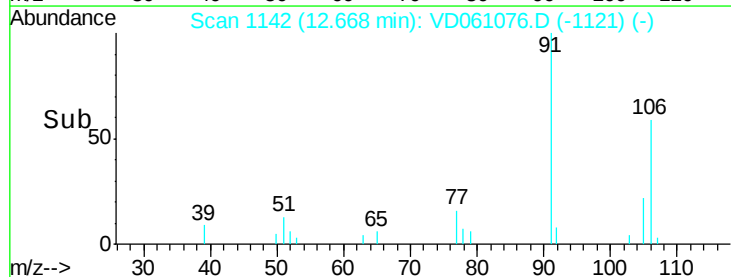
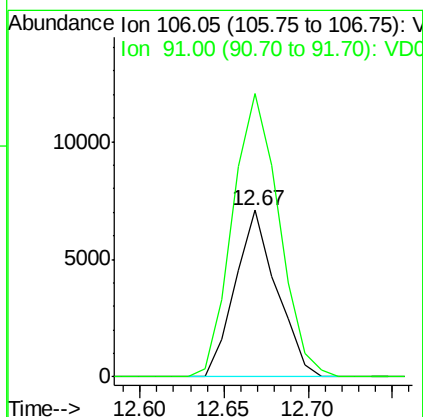
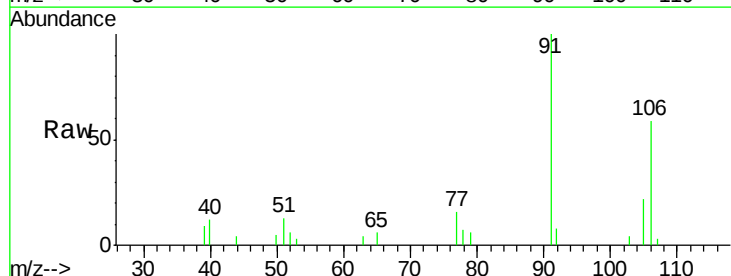
Instrument :
MSVOA_D
ClientSampled :
101-102

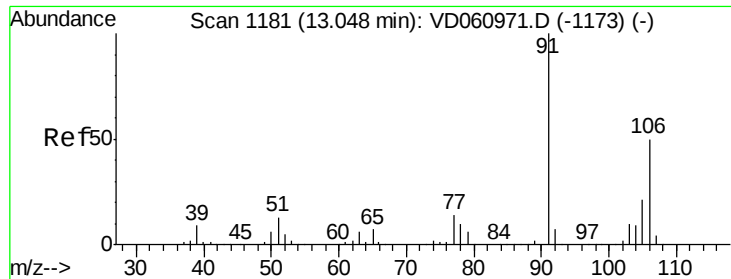
Tot Ion:117 Resp: 714701
Ion Ratio Lower Upper
117 100
82 44.4 38.9 58.3
119 32.4 26.6 39.8



#68
m/p-Xylenes
Concen: 1.477 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

Tgt Ion:106 Resp: 12095
Ion Ratio Lower Upper
106 100
91 170.0 152.0 228.0

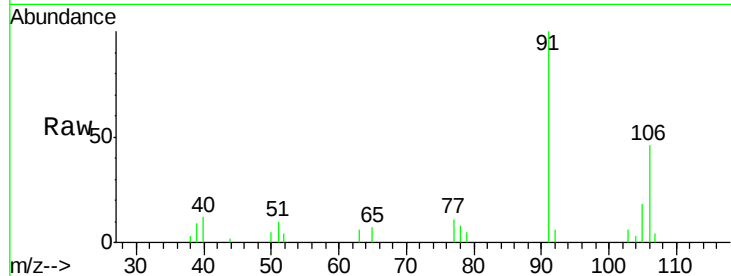




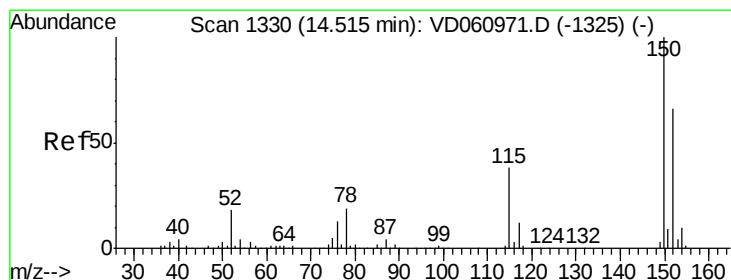
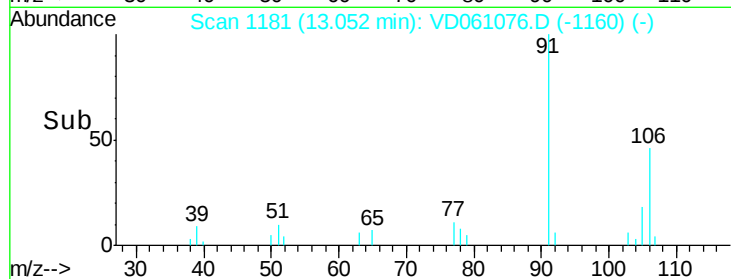
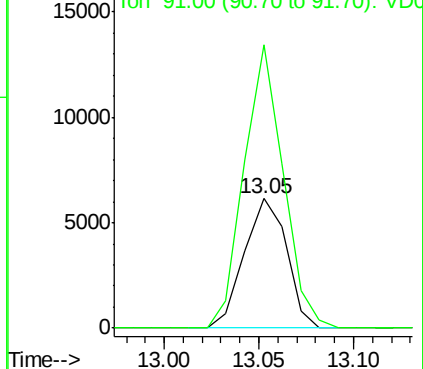
#69
o-Xylene
Concen: 1.181 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

Instrument :
MSVOA_D
ClientSampleId :
101-102

Tot Ion:106 Resp: 9505
Ion Ratio Lower Upper
106 100
91 218.8 99.8 299.3

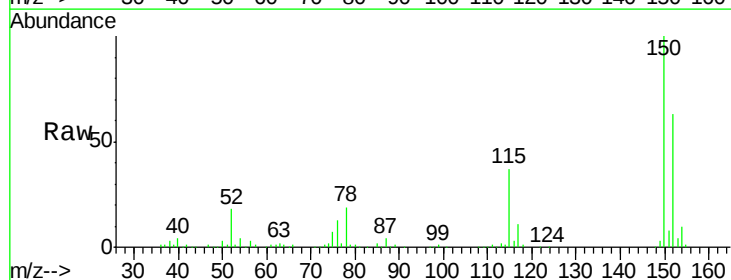


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

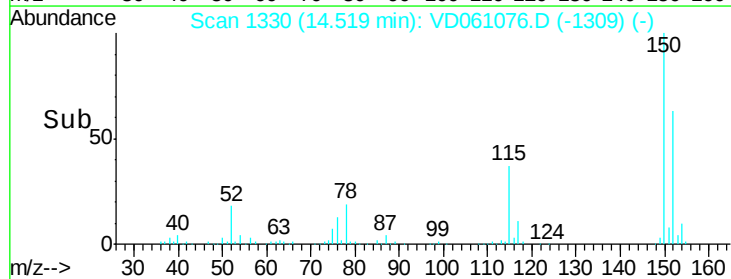
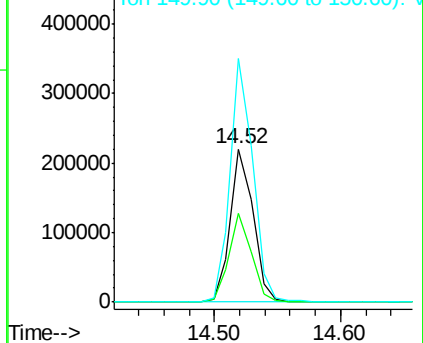


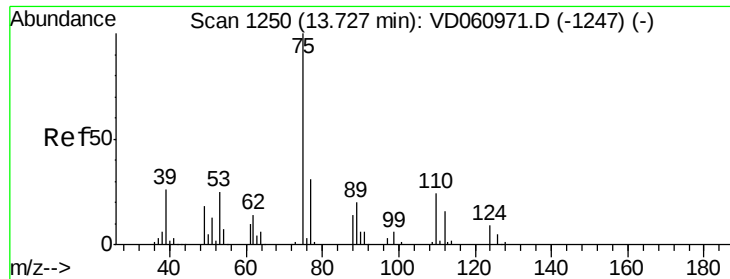
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061076.D
Acq: 14 Mar 2019 20:31

Tgt Ion:152 Resp: 274710
Ion Ratio Lower Upper
152 100
115 58.1 28.6 85.9
150 158.7 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

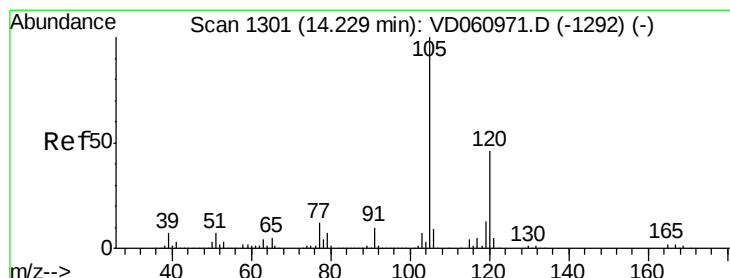
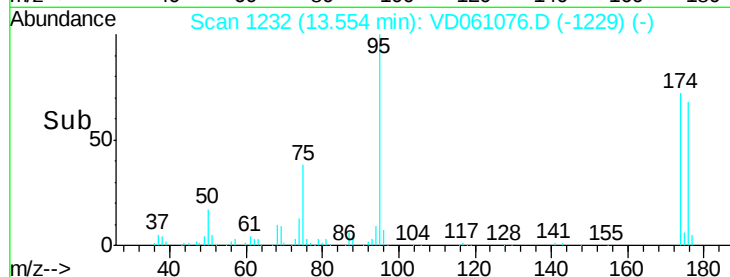
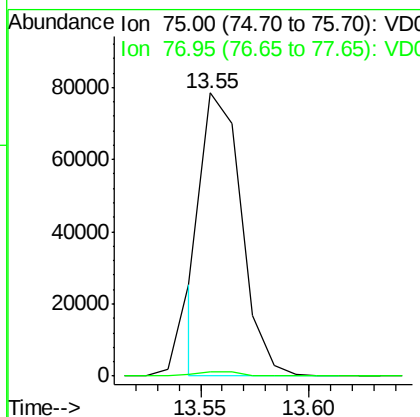
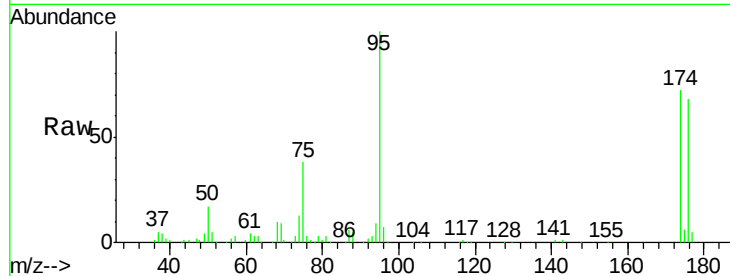




#76
 1,2,3-Trichloropropane
 Concen: 25.256 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.17 min
 Lab File: VD061076.D
 Acq: 14 Mar 2019 20:31

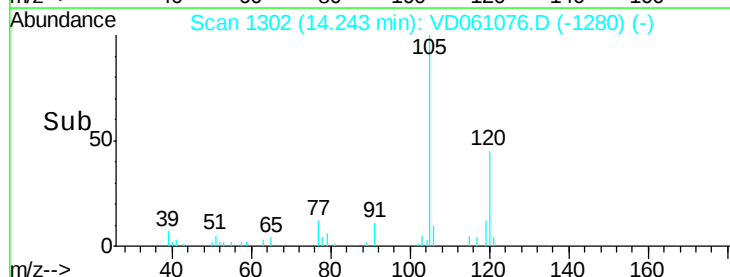
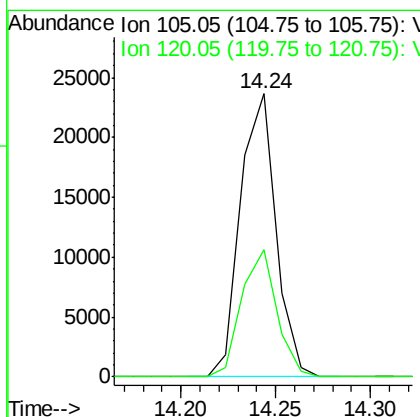
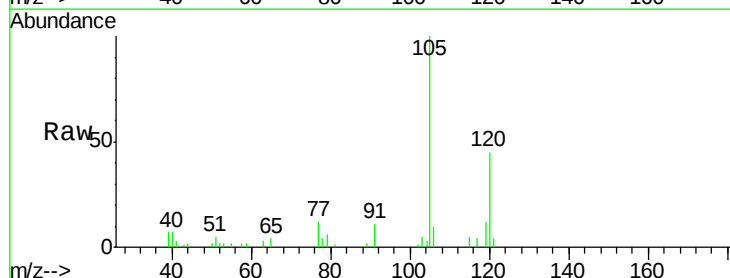
Instrument :
 MSVOA_D
 ClientSampleId :
 101-102

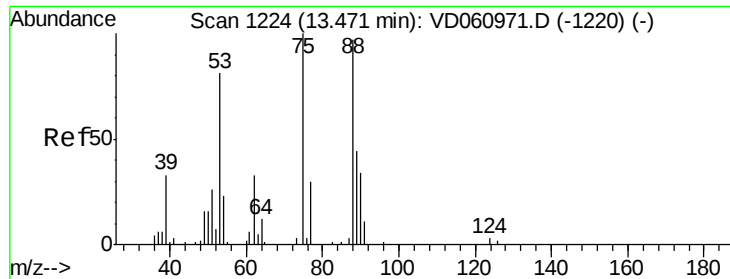
Tot Ion: 75 Resp: 99818
 Ion Ratio Lower Upper
 75 100
 77 1.6 16.6 49.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.035 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD061076.D
 Acq: 14 Mar 2019 20:31

Tgt Ion:105 Resp: 30585
 Ion Ratio Lower Upper
 105 100
 120 45.0 22.9 68.5





#81

trans-1,4-Dichloro-2-butene

Concen: 99.401 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061076.D

Acq: 14 Mar 2019 20:31

Instrument :

MSVOA_D

ClientSampleId :

101-102

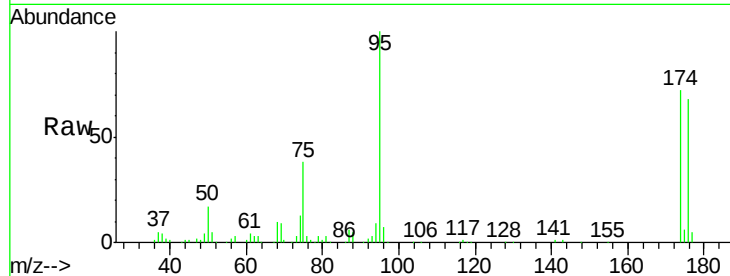
Tot Ion: 75 Resp: 115821

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

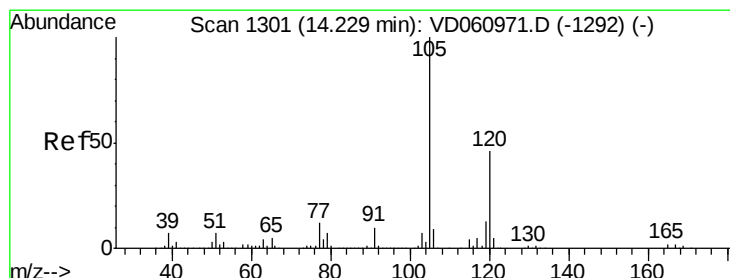
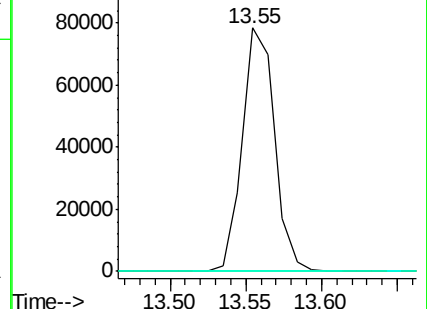
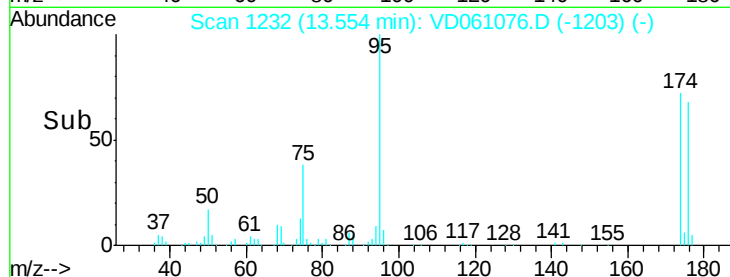
89 0.0 34.8 52.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 2.035 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD061076.D

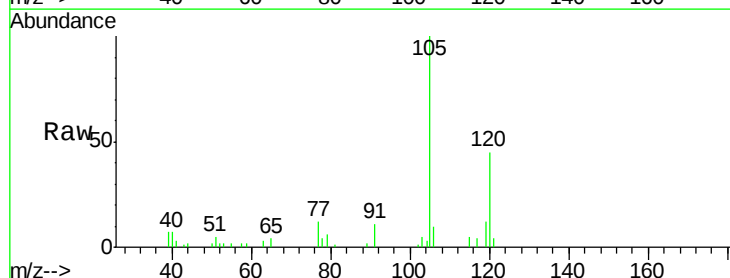
Acq: 14 Mar 2019 20:31

Tgt Ion: 105 Resp: 30585

Ion Ratio Lower Upper

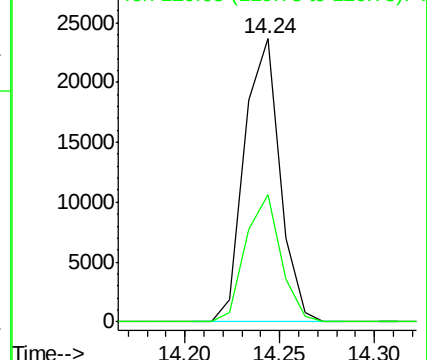
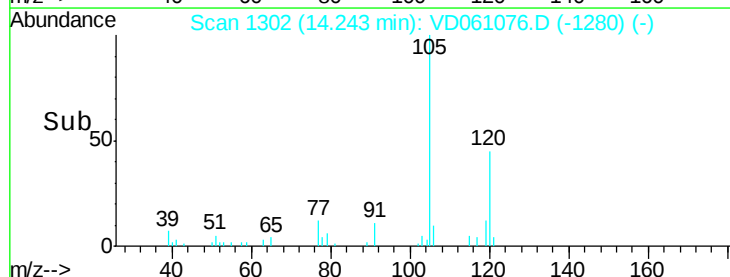
105 100

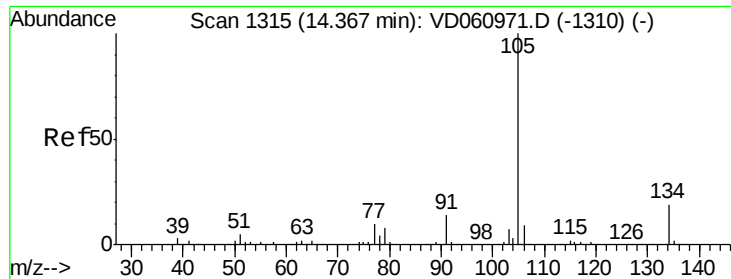
120 45.0 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 1.523 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.12 min

Lab File: VD061076.D

Acq: 14 Mar 2019 20:31

Instrument :

MSVOA_D

ClientSampled :

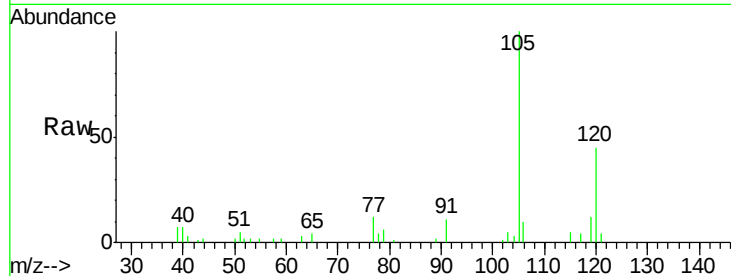
101-102

Tot Ion:105 Resp: 30585

Ion Ratio Lower Upper

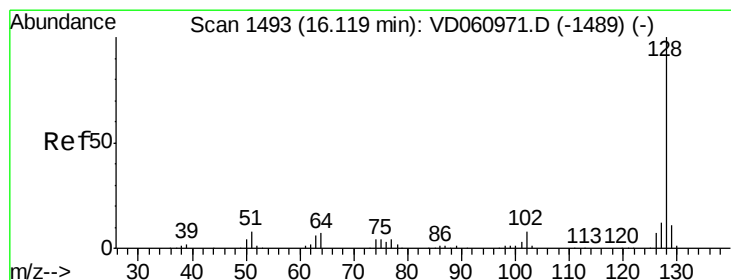
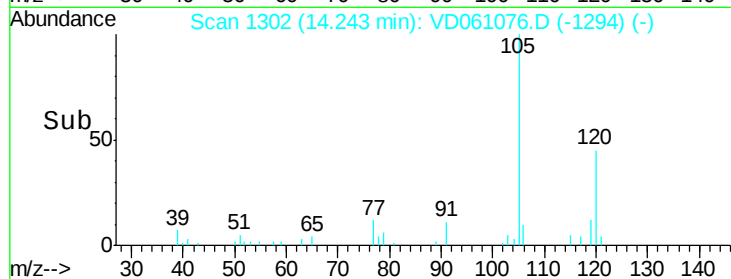
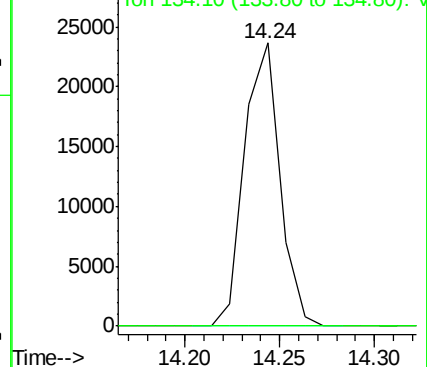
105 100

134 0.0 9.4 28.2#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#95

Naphthalene

Concen: 15.988 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD061076.D

Acq: 14 Mar 2019 20:31

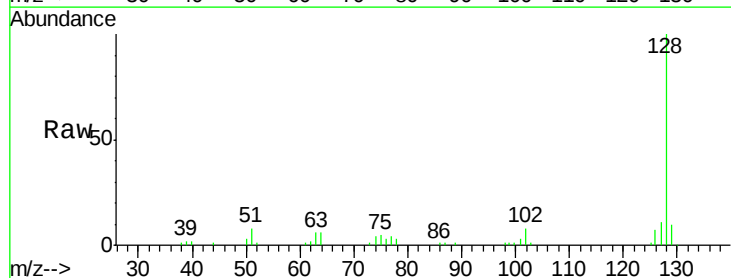
Tgt Ion:128 Resp: 84793

Ion Ratio Lower Upper

128 100

127 11.4 9.8 14.8

129 10.3 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

