

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032019\
 Data File : VD061204.D
 Acq On : 20 Mar 2019 13:27
 Operator : VA/AP
 Sample : K1987-01RE
 Misc : 5.06g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190143-COMPOSITE-BRE

Quant Time: Mar 22 01:59:29 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	335738	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	553460	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	351181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	100016	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	188997	67.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	135.26%	
35) Dibromofluoromethane	6.91	113	270314	65.81	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	131.62%	
50) Toluene-d8	10.40	98	574148	55.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.32%	
62) 4-Bromofluorobenzene	13.55	95	146822	36.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	73.38%	

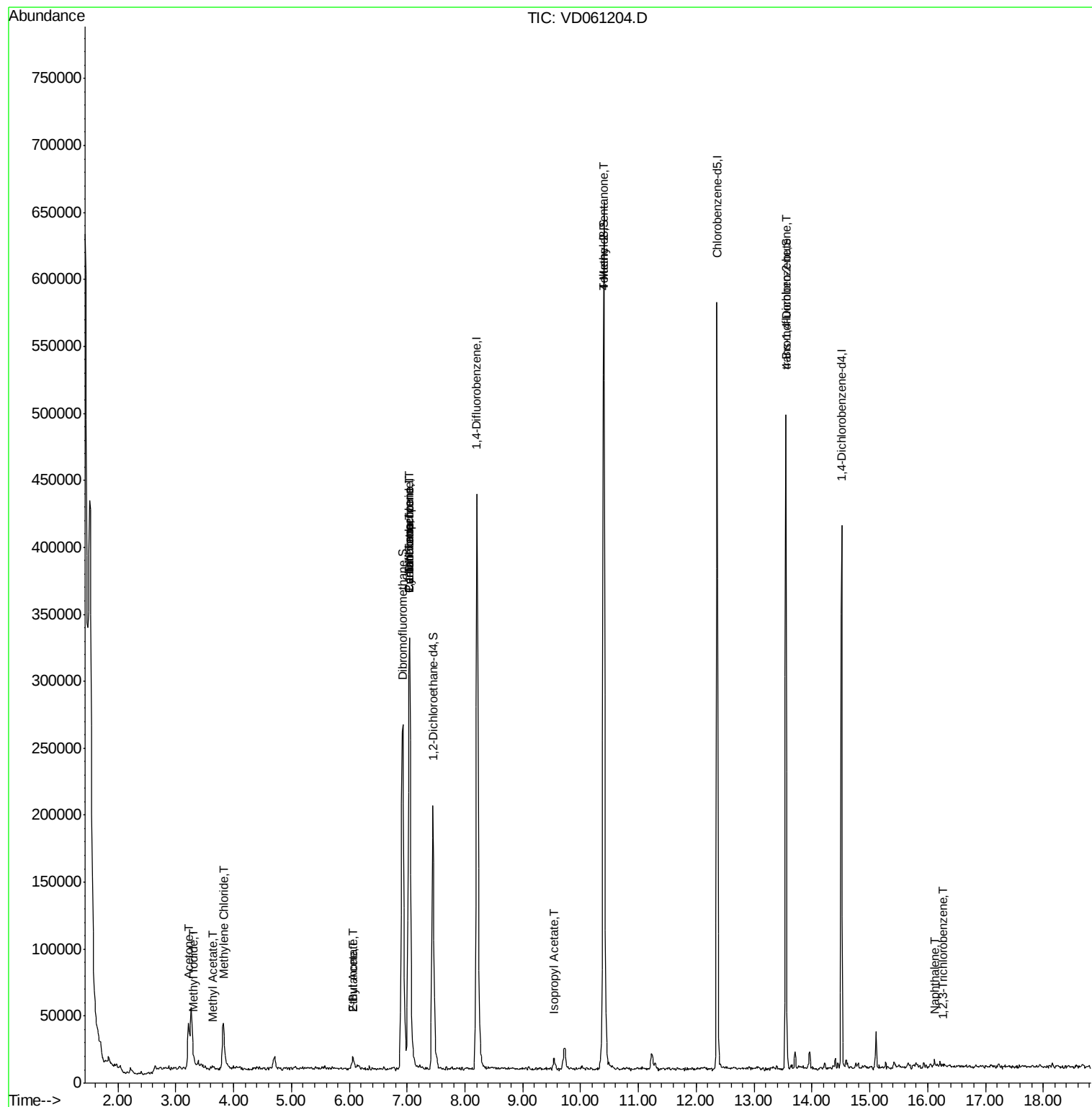
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.32	142	2012	3.268	ug/l #	39
16) Acetone	3.22	43	73539	92.022	ug/l	97
18) Methyl Acetate	3.65	43	1735	1.103	ug/l #	59
20) Methylene Chloride	3.82	84	26627	2.916	ug/l	84
25) 2-Butanone	6.06	43	21299	23.488	ug/l	99
31) Cyclohexane	7.04	56	4997	1.010	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	23517	4.929	ug/l #	47
37) Ethyl Acetate	6.06	43	21298	9.513	ug/l #	66
38) Carbon Tetrachloride	7.04	117	31704	6.033	ug/l #	15
43) Isopropyl Acetate	9.54	43	5876	1.895	ug/l #	43
51) 4-Methyl-2-Pentanone	10.40	43	3865	2.035	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	52324	123.342	ug/l #	17
95) Naphthalene	16.12	128	4010	2.077	ug/l	97
96) 1,2,3-Trichlorobenzene	16.27	180	1046	1.667	ug/l	78

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

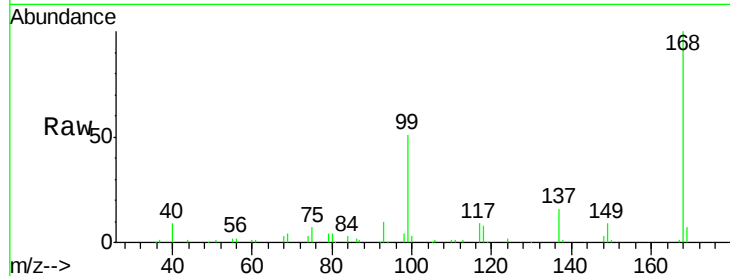
20190143-COMPOSITE-BRE

Tot Ion:168 Resp: 335738

Ion Ratio Lower Upper

168 100

99 50.9 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

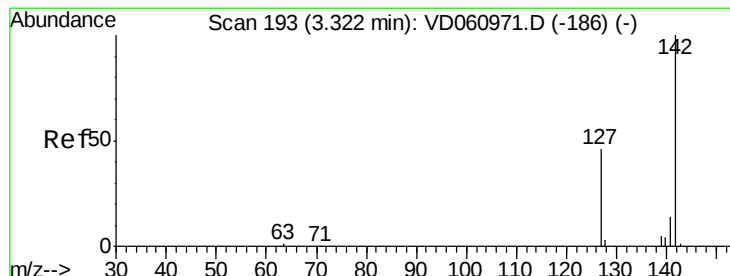
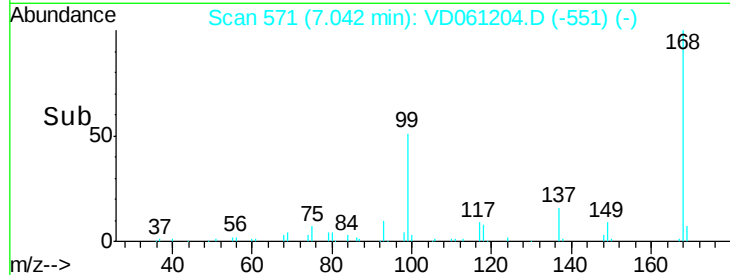
7.04

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 3.268 ug/l

RT: 3.32 min Scan# 193

Delta R.T. -0.00 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

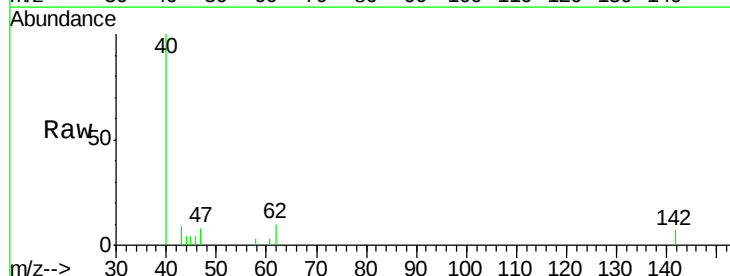
Tgt Ion:142 Resp: 2012

Ion Ratio Lower Upper

142 100

127 0.0 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

3.32

1000

800

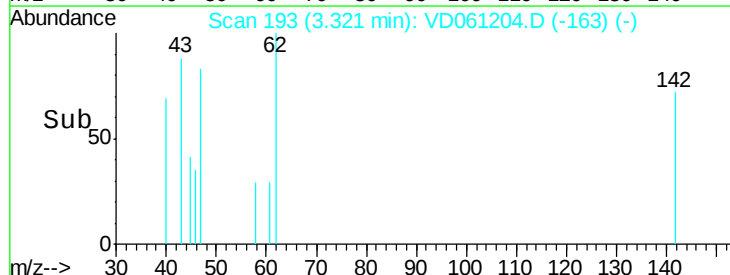
600

400

200

0

Time-->





#16

Acetone

Concen: 92.022 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

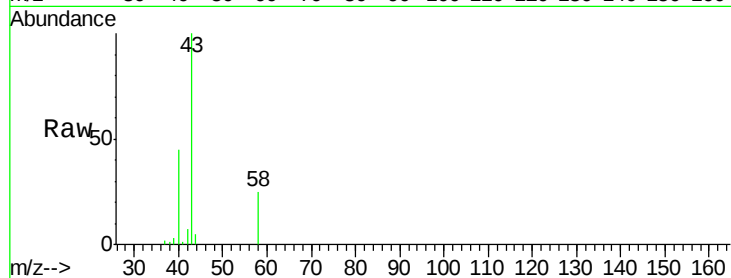
20190143-COMPOSITE-BRE

Tot Ion: 43 Resp: 73539

Ion Ratio Lower Upper

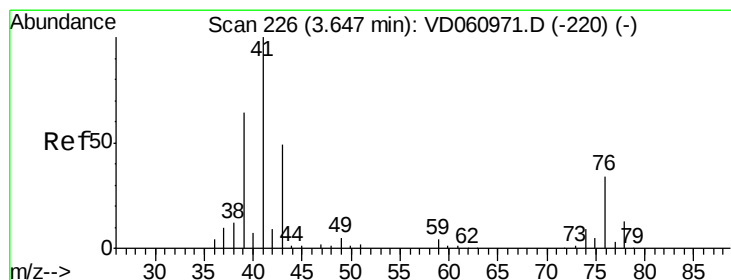
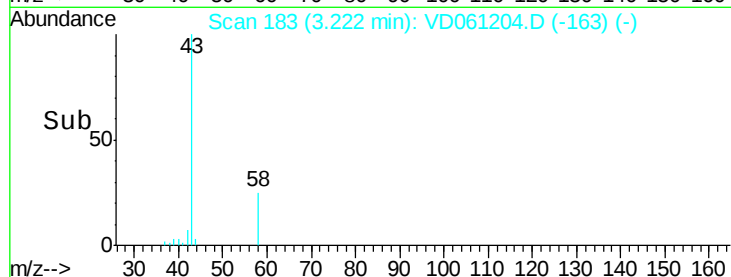
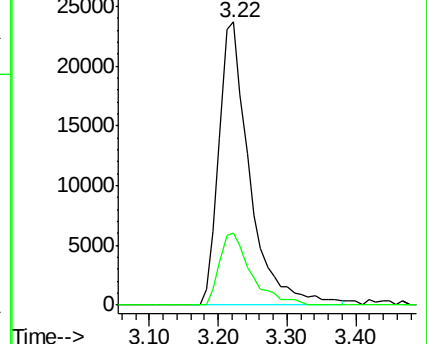
43 100

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: 1.103 ug/l

RT: 3.65 min Scan# 226

Delta R.T. -0.00 min

Lab File: VD061204.D

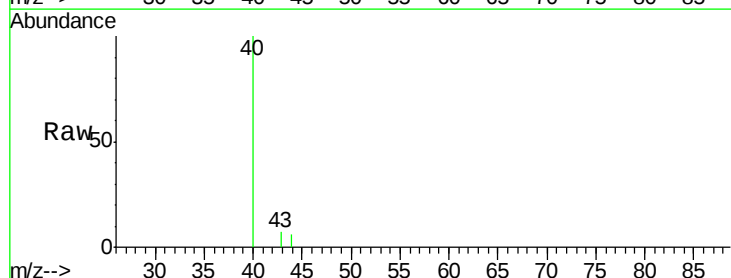
Acq: 20 Mar 2019 13:27

Tgt Ion: 43 Resp: 1735

Ion Ratio Lower Upper

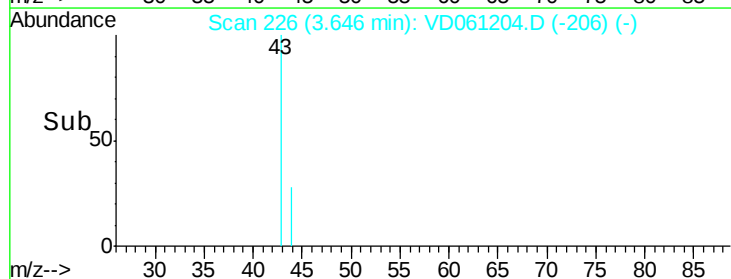
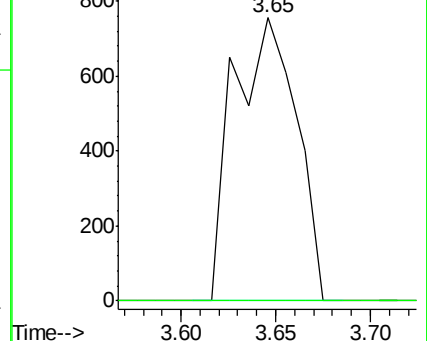
43 100

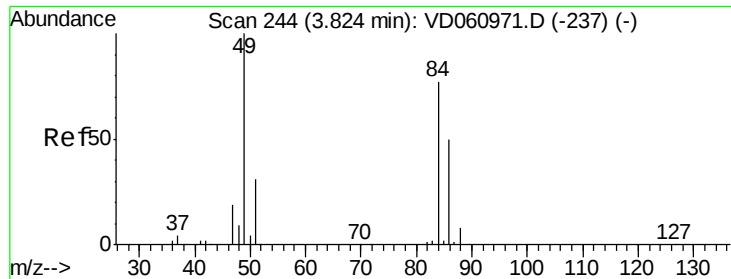
74 0.0 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

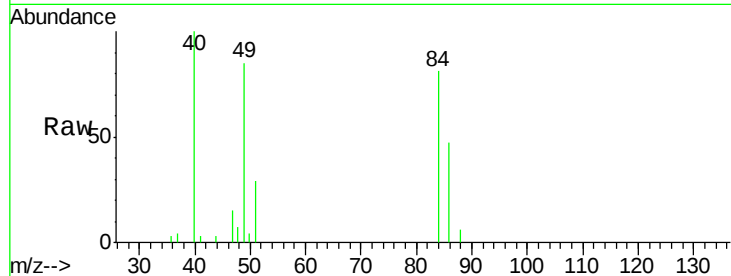




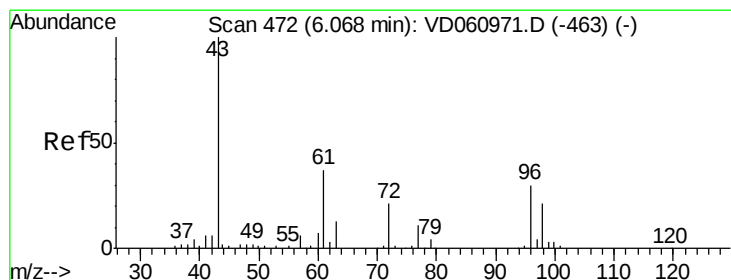
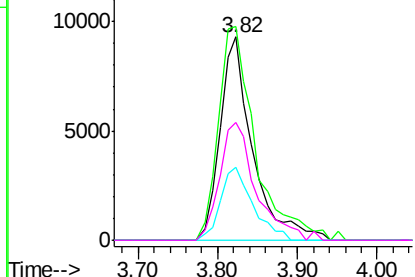
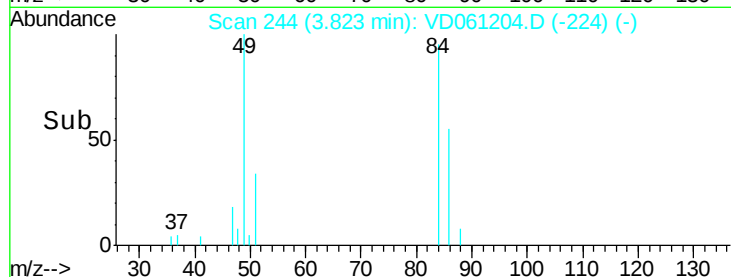
#20
Methvlene Chloride
Concen: 2.916 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.00 min
Lab File: VD061204.D
Acq: 20 Mar 2019 13:27

Instrument :
MSVOA_D
ClientSampleId :
20190143-COMPOSITE-BRE

Tot Ion:	84	Resp:	26627
Ion	Ratio	Lower	Upper
84	100		
49	105.2	104.2	156.2
51	35.7	32.3	48.5
86	58.2	52.3	78.5

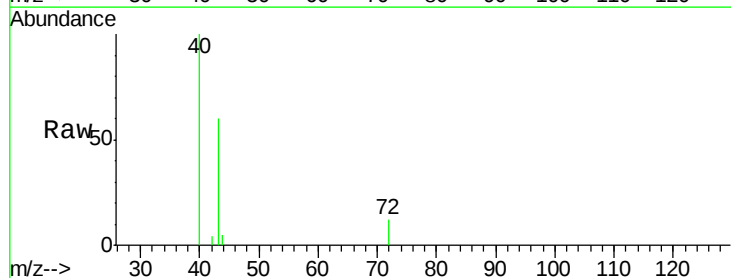


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

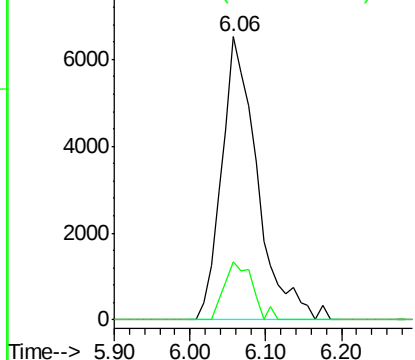
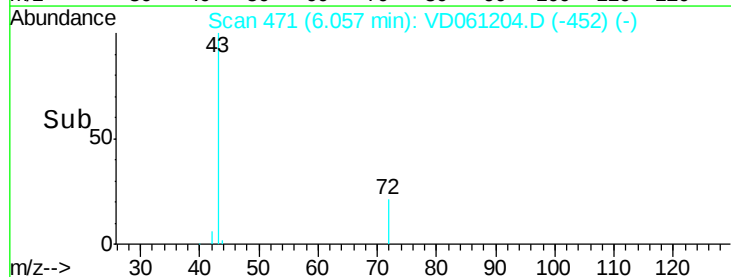


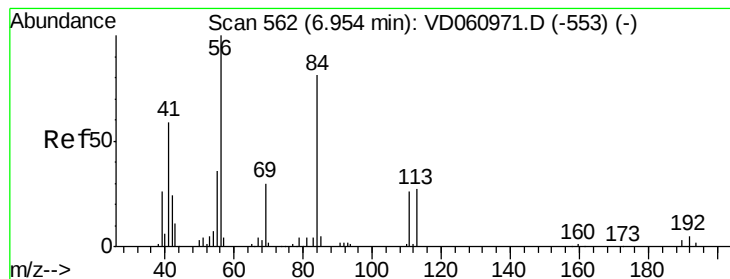
#25
2-Butanone
Concen: 23.488 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.01 min
Lab File: VD061204.D
Acq: 20 Mar 2019 13:27

Tgt Ion:	43	Resp:	21299
Ion	Ratio	Lower	Upper
43	100		
72	20.6	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: 1.010 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.09 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190143-COMPOSITE-BRE

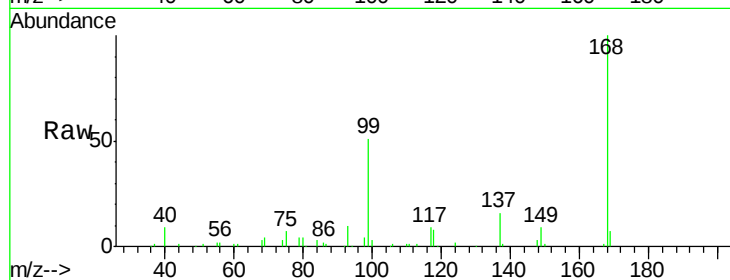
Tot Ion: 56 Resp: 4997

Ion Ratio Lower Upper

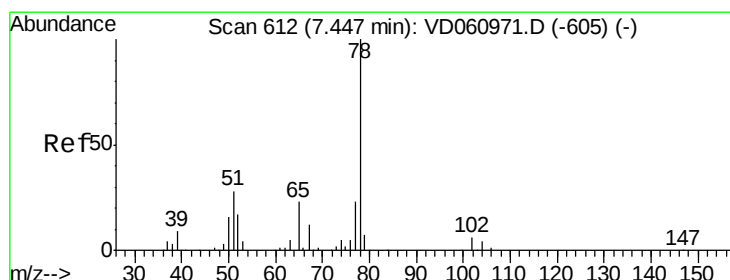
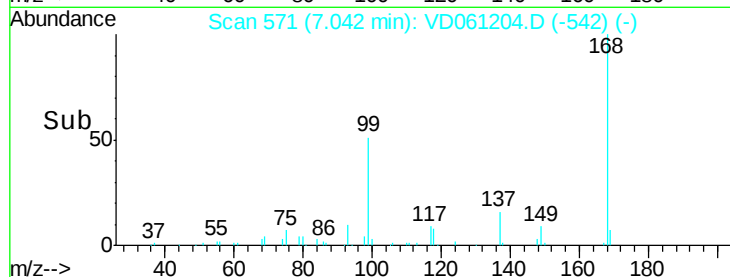
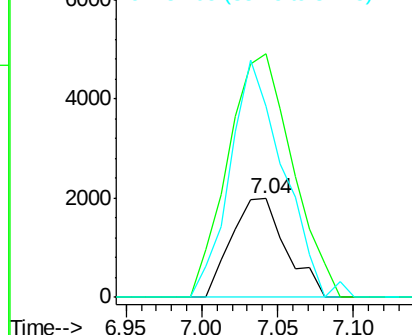
56 100

69 246.9 24.0 36.0#

84 193.3 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: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD061204.D

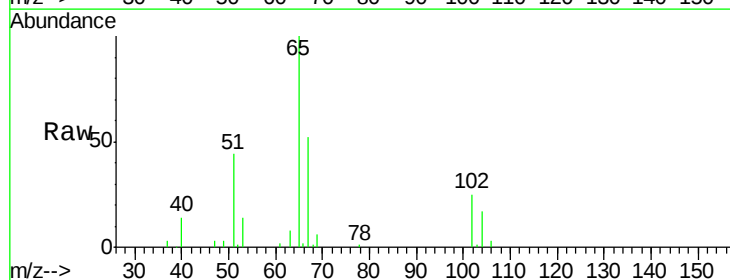
Acq: 20 Mar 2019 13:27

Tgt Ion: 65 Resp: 188997

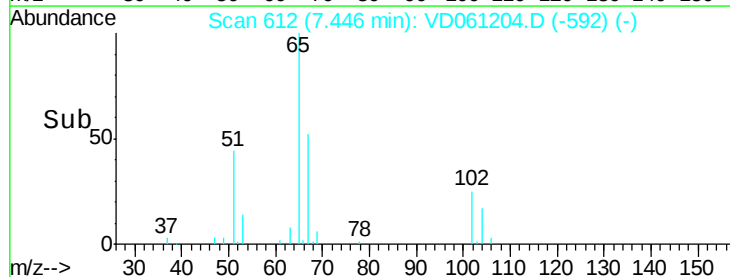
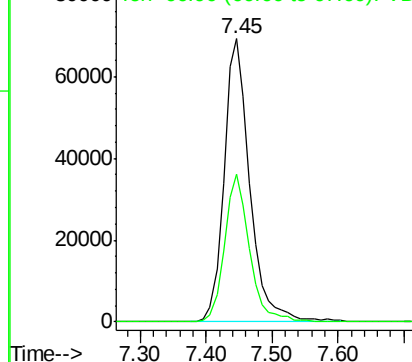
Ion Ratio Lower Upper

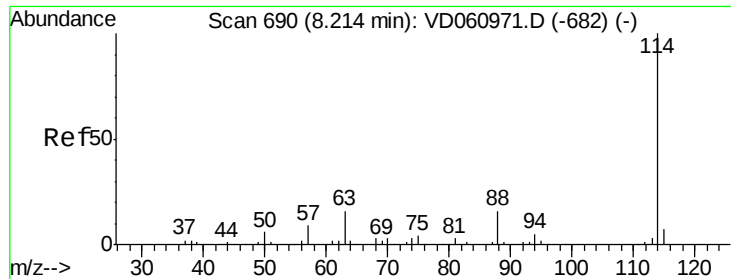
65 100

67 52.3 0.0 105.2



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

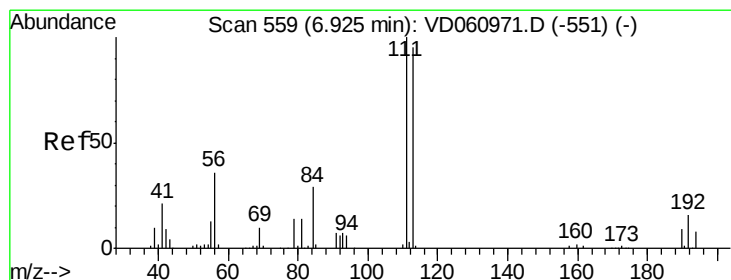
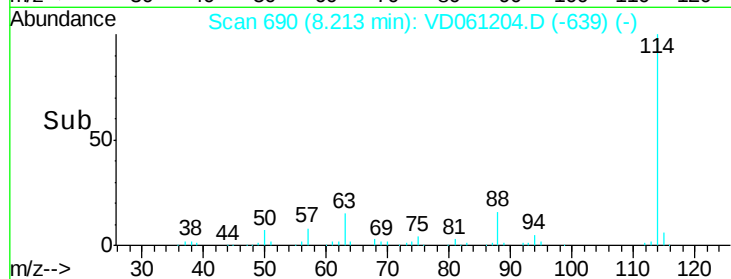
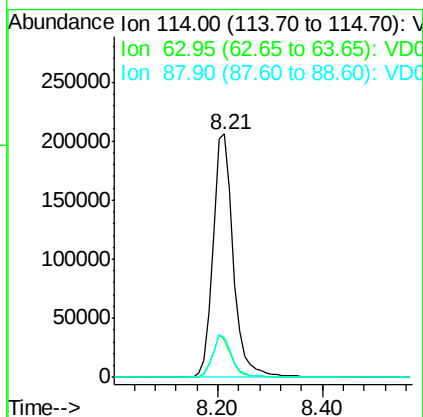
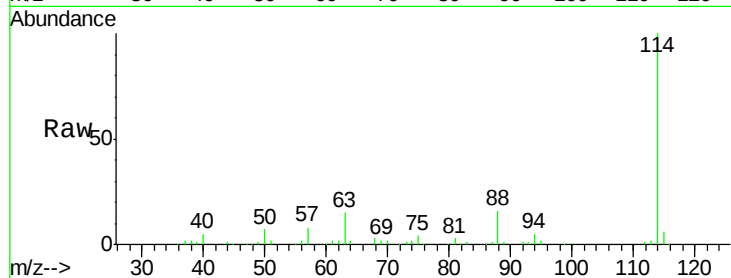




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VD061204.D
 Acq: 20 Mar 2019 13:27

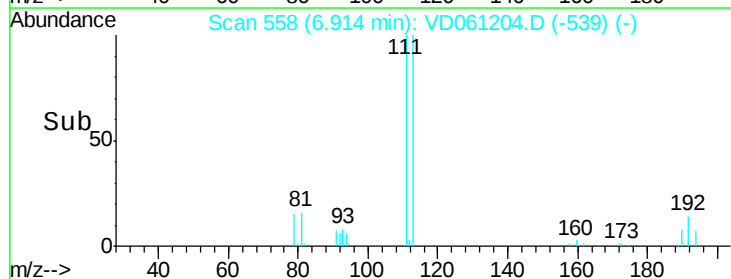
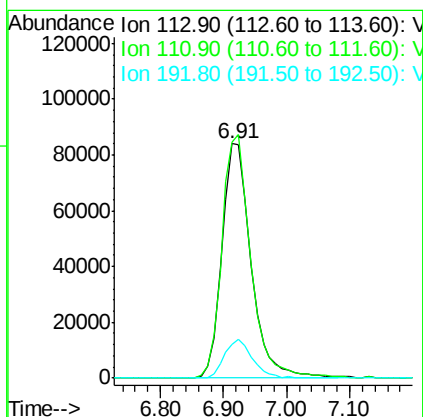
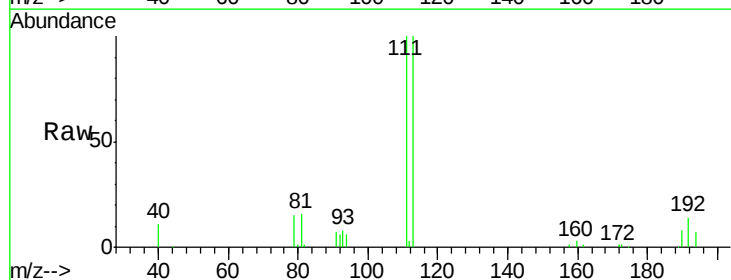
Instrument :
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 20190143-COMPOSITE-BRE

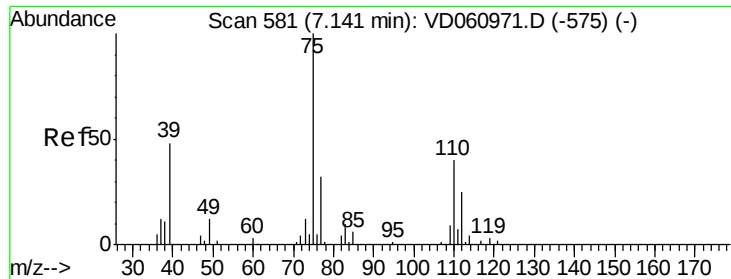
Tot Ion:114 Resp: 553460
 Ion Ratio Lower Upper
 114 100
 63 15.3 0.0 31.4
 88 16.2 0.0 33.0



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.91 min Scan# 558
 Delta R.T. -0.01 min
 Lab File: VD061204.D
 Acq: 20 Mar 2019 13:27

Tgt Ion:113 Resp: 270314
 Ion Ratio Lower Upper
 113 100
 111 100.5 84.2 126.4
 192 14.5 13.1 19.7

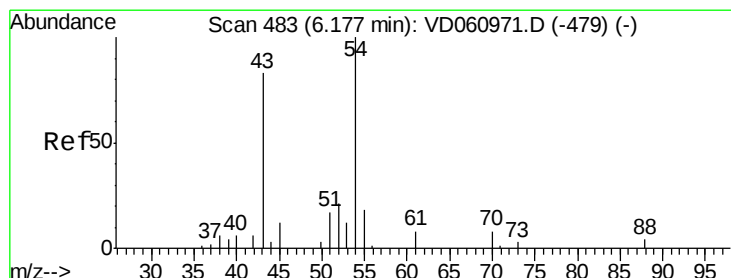
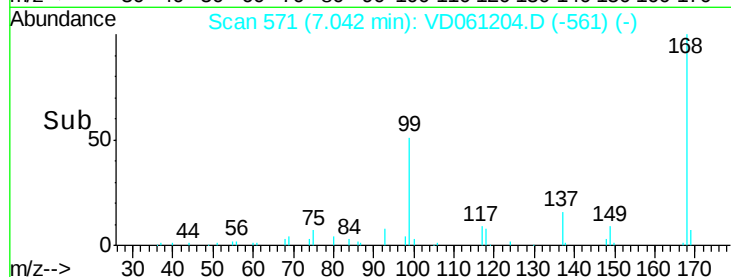
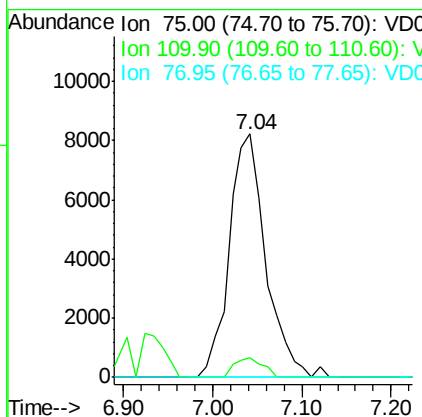
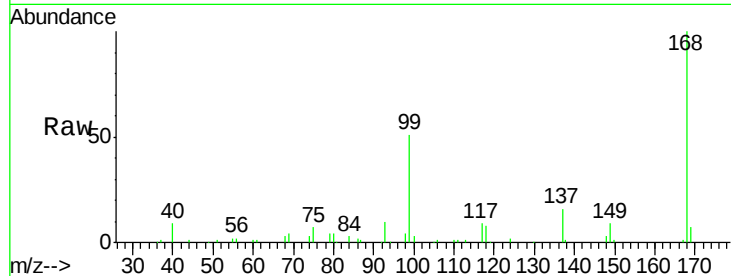




#36
 1,1-Dichloropropene
 Concen: 4.929 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD061204.D
 Acq: 20 Mar 2019 13:27

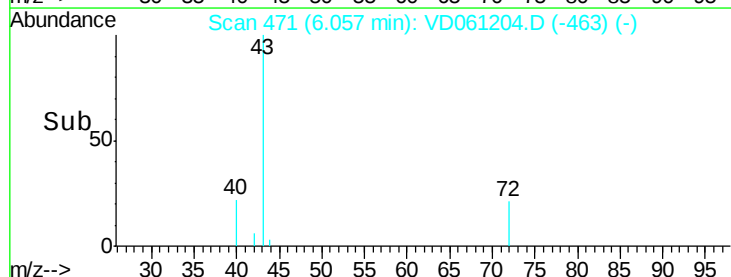
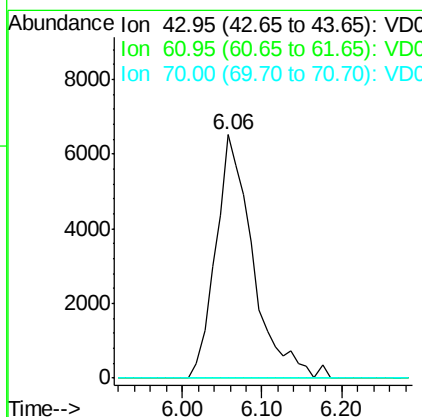
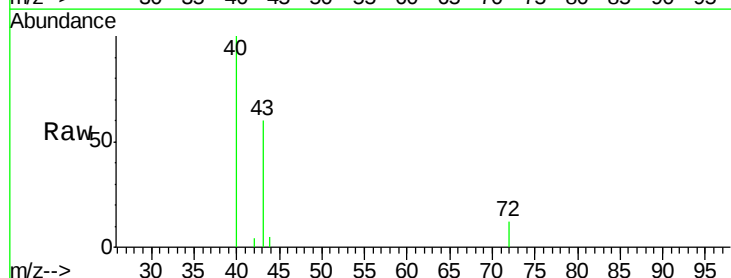
Instrument :
 MSVOA_D
 ClientSampleId :
 20190143-COMPOSITE-BRE

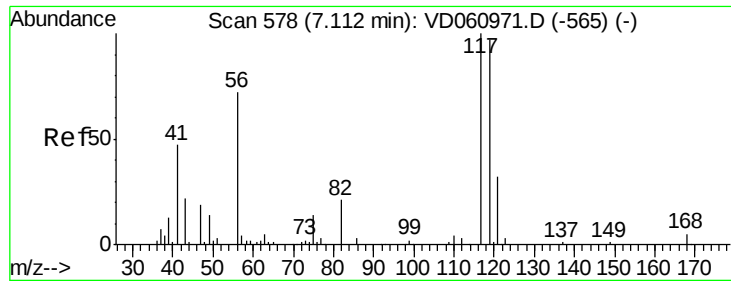
Tot Ion: 75 Resp: 23517
 Ion Ratio Lower Upper
 75 100
 110 8.1 19.7 59.1#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 9.513 ug/l
 RT: 6.06 min Scan# 471
 Delta R.T. -0.12 min
 Lab File: VD061204.D
 Acq: 20 Mar 2019 13:27

Tgt Ion: 43 Resp: 21298
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.7 20.5#
 70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 6.033 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190143-COMPOSITE-BRE

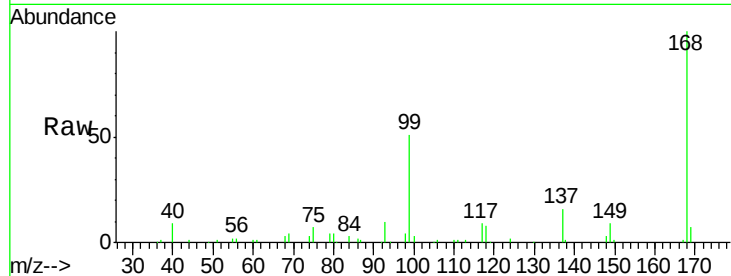
Tot Ion:117 Resp: 31704

Ion Ratio Lower Upper

117 100

119 4.9 77.8 116.8#

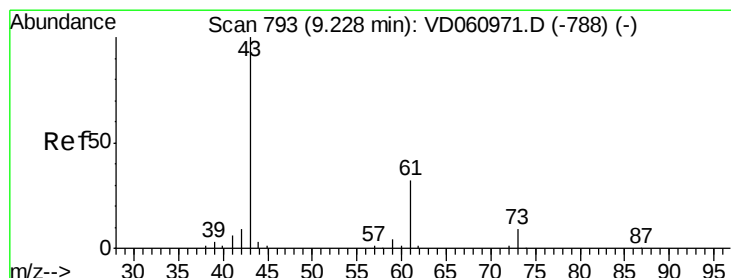
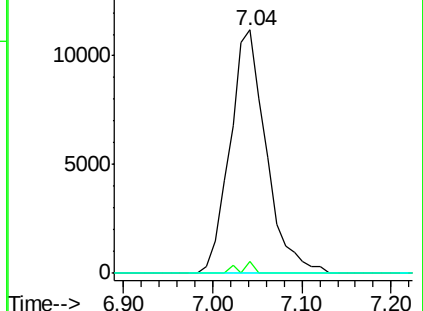
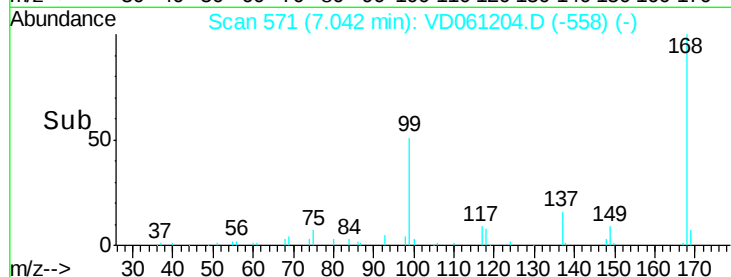
121 0.0 25.3 37.9#



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



#43

Isopropyl Acetate

Concen: 1.895 ug/l

RT: 9.54 min Scan# 825

Delta R.T. 0.31 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

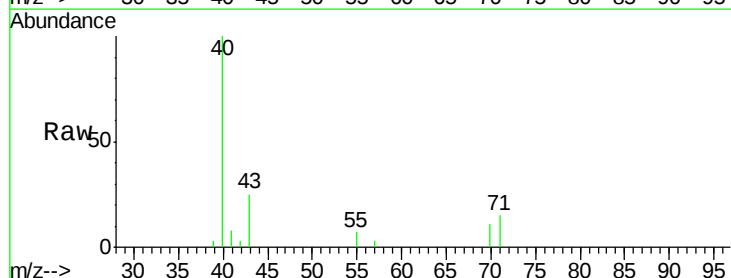
Tgt Ion: 43 Resp: 5876

Ion Ratio Lower Upper

43 100

61 0.0 25.6 38.4#

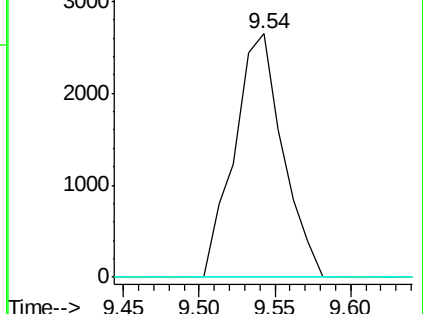
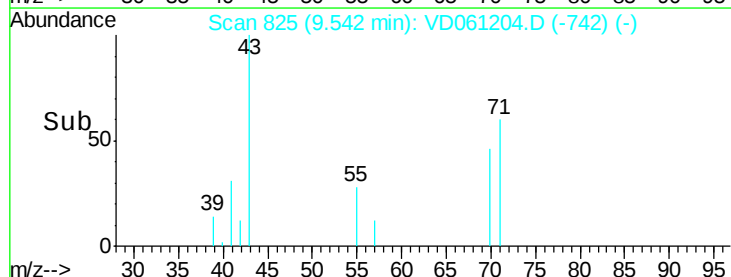
87 0.0 0.2 0.4#

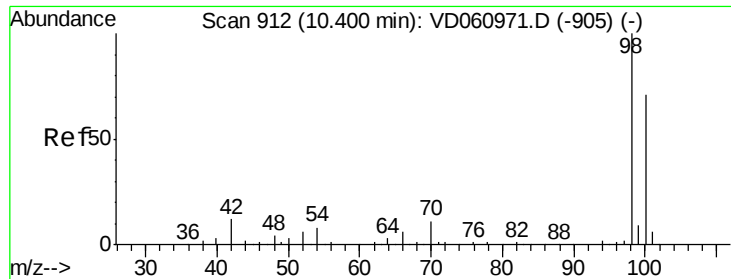


Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 87.00 (86.70 to 87.70): V

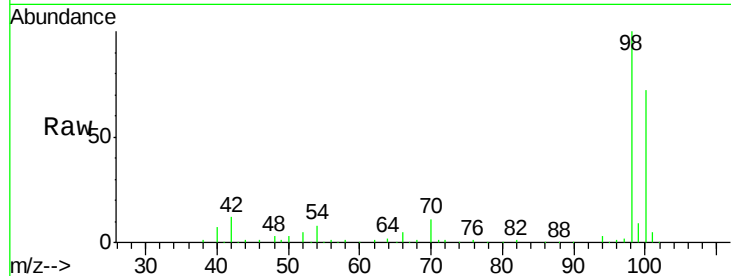




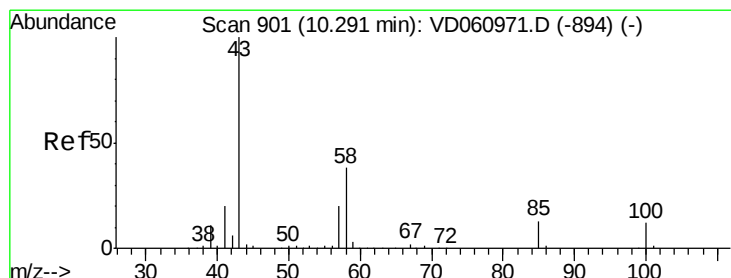
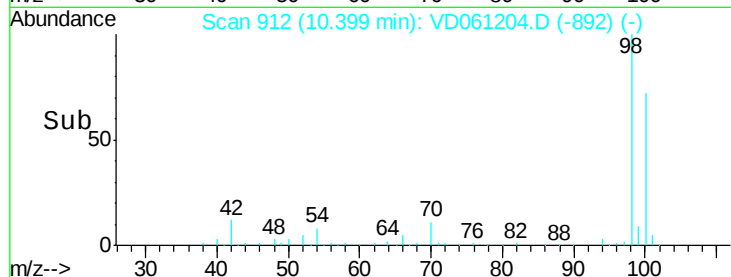
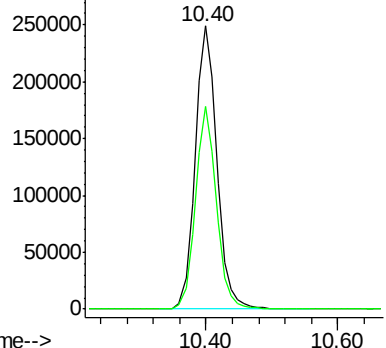
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD061204.D
Acq: 20 Mar 2019 13:27

Instrument :
MSVOA_D
ClientSampleId :
20190143-COMPOSITE-BRE

Tot Ion: 98 Resp: 574148
Ion Ratio Lower Upper
98 100
100 71.5 57.4 86.2

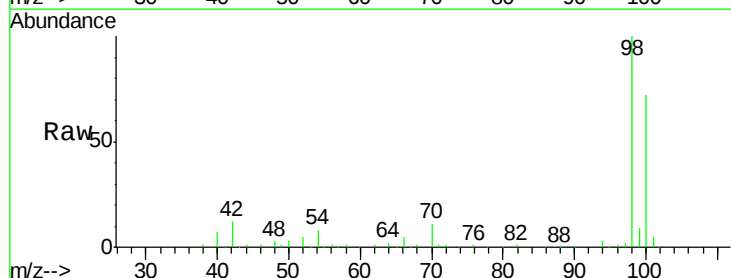


Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)
Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

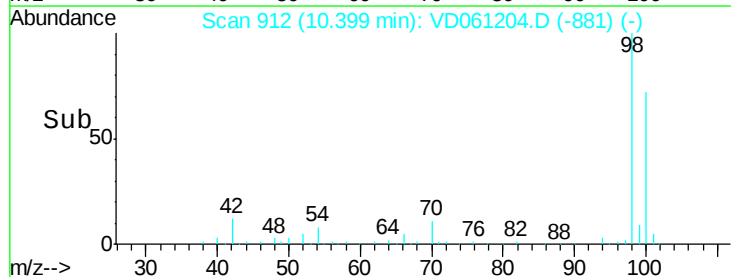
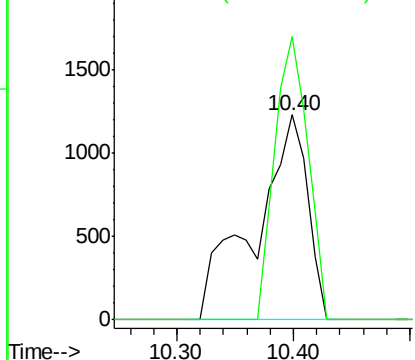


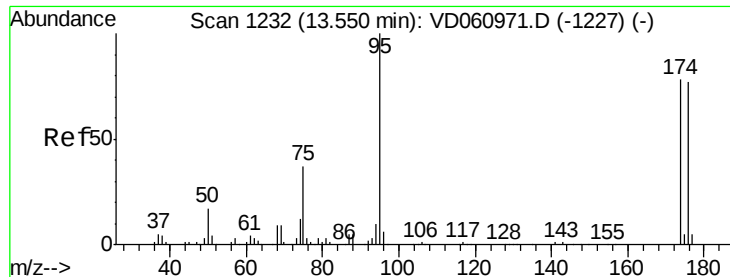
#51
4-Methyl-2-Pentanone
Concen: 2.035 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.11 min
Lab File: VD061204.D
Acq: 20 Mar 2019 13:27

Tgt Ion: 43 Resp: 3865
Ion Ratio Lower Upper
43 100
58 138.3 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VD060971.D (-894) (-)
Ion 57.95 (57.65 to 58.65): VD060971.D (-894) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190143-COMPOSITE-BRE

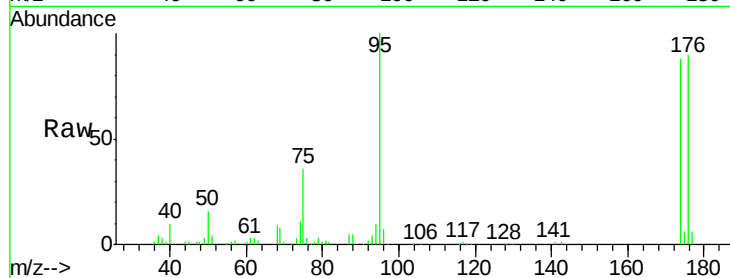
Tot Ion: 95 Resp: 146822

Ion Ratio Lower Upper

95 100

174 87.9 0.0 155.6

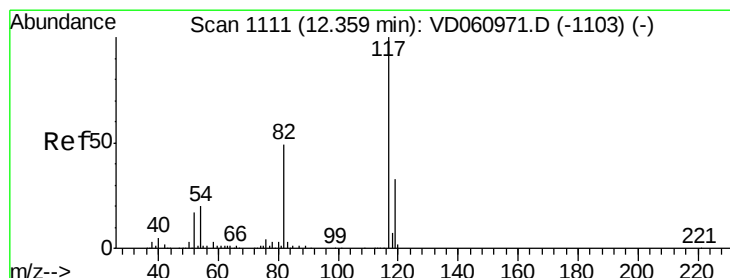
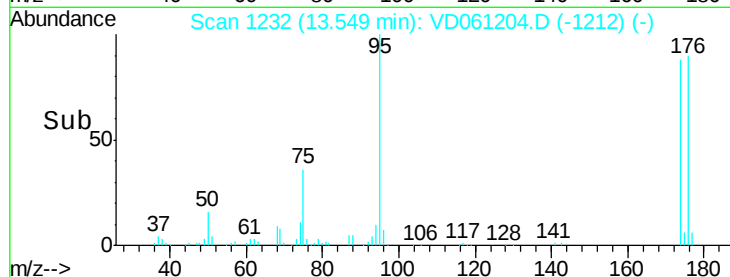
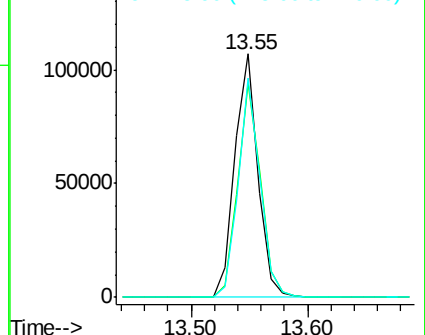
176 90.2 0.0 153.8



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: VD061204.D

Acq: 20 Mar 2019 13:27

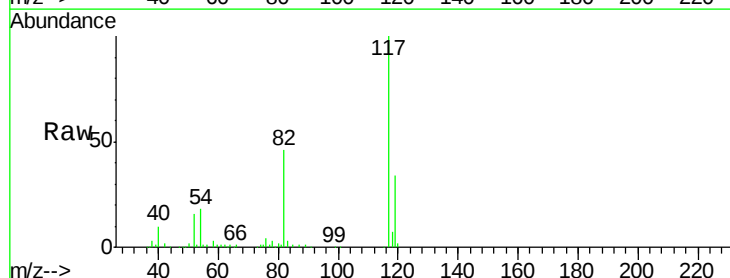
Tgt Ion: 117 Resp: 351181

Ion Ratio Lower Upper

117 100

82 45.6 38.9 58.3

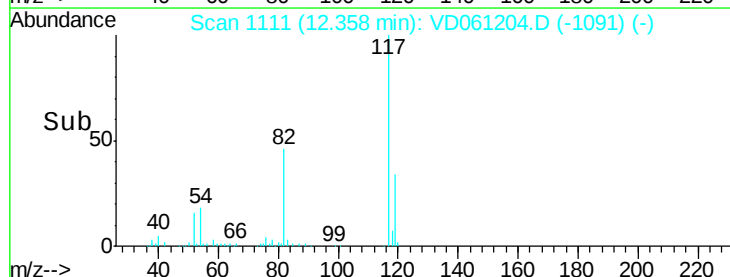
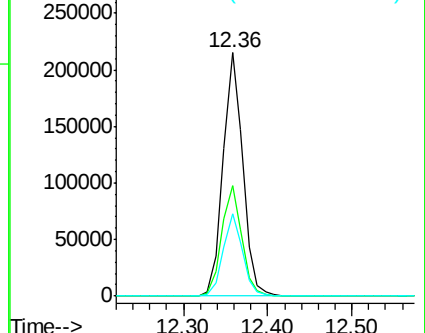
119 33.7 26.6 39.8

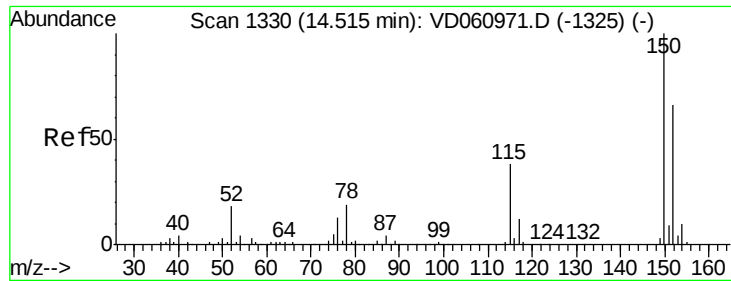


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD061204.D

Acq: 20 Mar 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190143-COMPOSITE-BRE

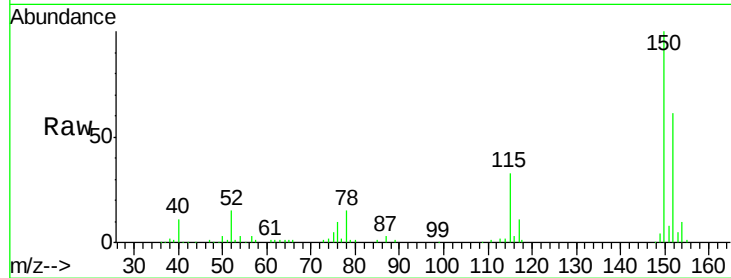
Tot Ion:152 Resp: 100016

Ion Ratio Lower Upper

152 100

115 54.5 28.6 85.9

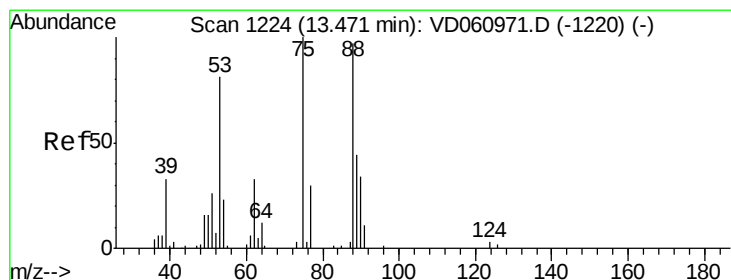
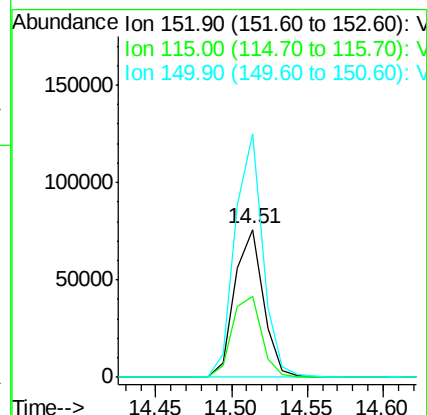
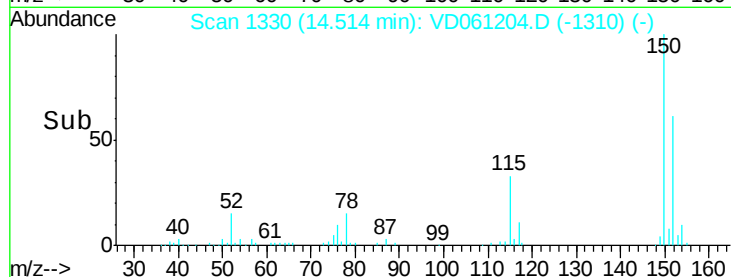
150 164.4 0.0 310.6



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



#81

trans-1,4-Dichloro-2-butene

Concen: 123.342 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

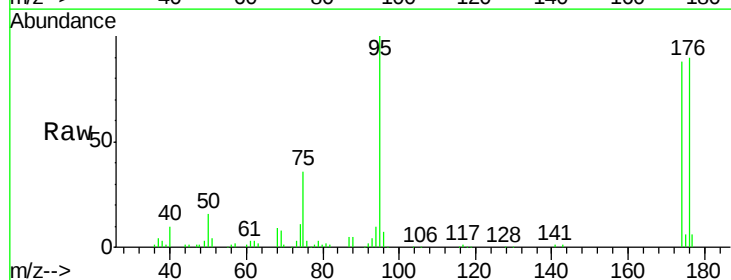
Tgt Ion: 75 Resp: 52324

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

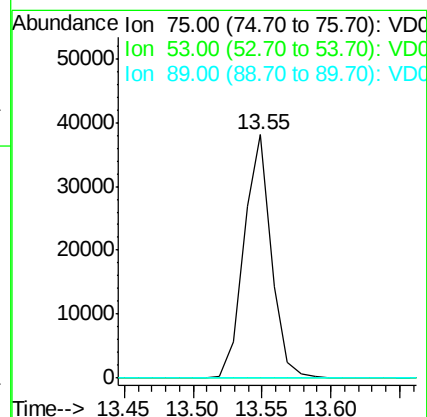
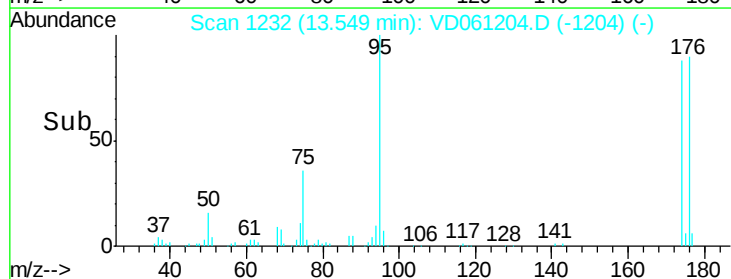
89 0.0 34.8 52.2#

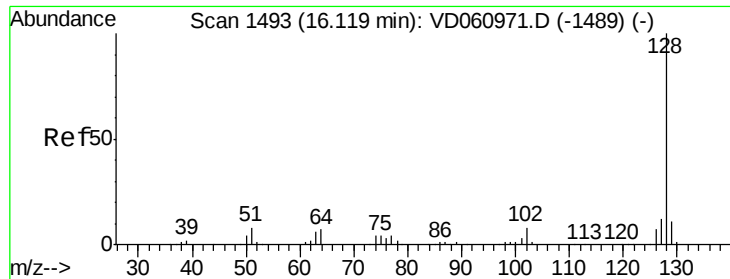


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V





#95

Naphthalene

Concen: 2.077 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190143-COMPOSITE-BRE

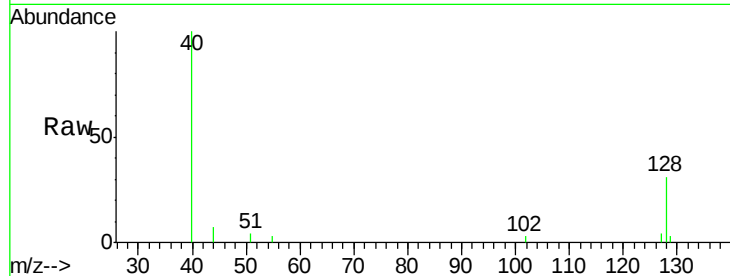
Tot Ion:128 Resp: 4010

Ion Ratio Lower Upper

128 100

127 13.9 9.8 14.8

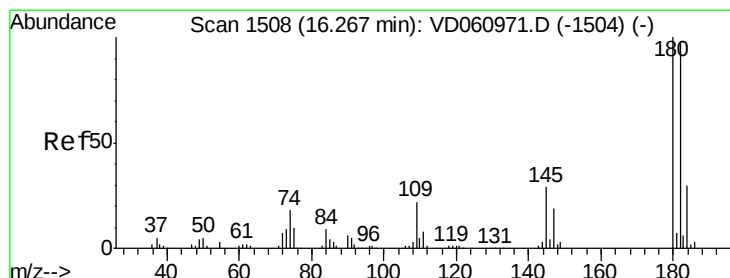
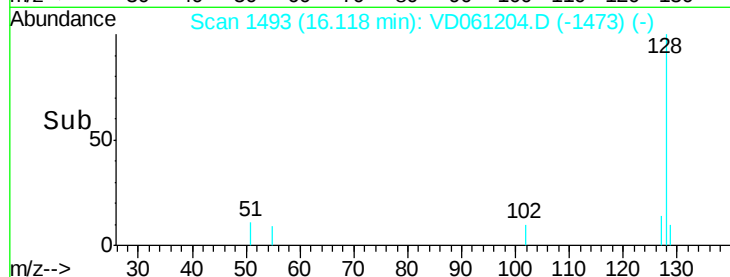
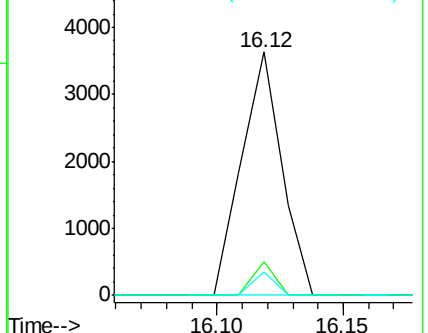
129 9.6 8.5 12.7



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: 1.667 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VD061204.D

Acq: 20 Mar 2019 13:27

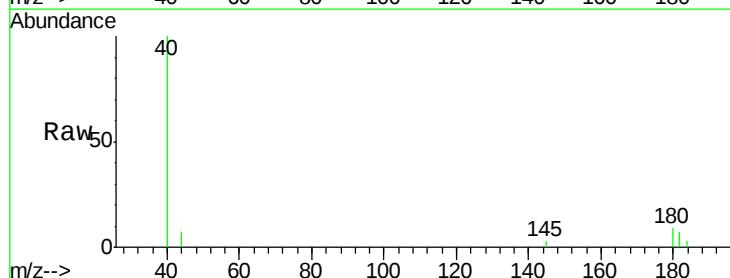
Tgt Ion:180 Resp: 1046

Ion Ratio Lower Upper

180 100

182 73.8 48.6 145.8

145 36.2 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

