

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122018\
 Data File : VD060671.D
 Acq On : 20 Dec 2018 21:12
 Operator : VA/AP
 Sample : J6465-05
 Misc : 4.07g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EB08_12-14

Quant Time: Dec 21 03:40:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 03:34:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1546580	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	2206187	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1756126	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	903077	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.79	65	484146	45.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.60%	
35) Dibromofluoromethane	6.33	113	684962	42.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.84%	
50) Toluene-d8	9.46	98	1876284	38.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.88%	
62) 4-Bromofluorobenzene	12.43	95	687706	40.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.52%	

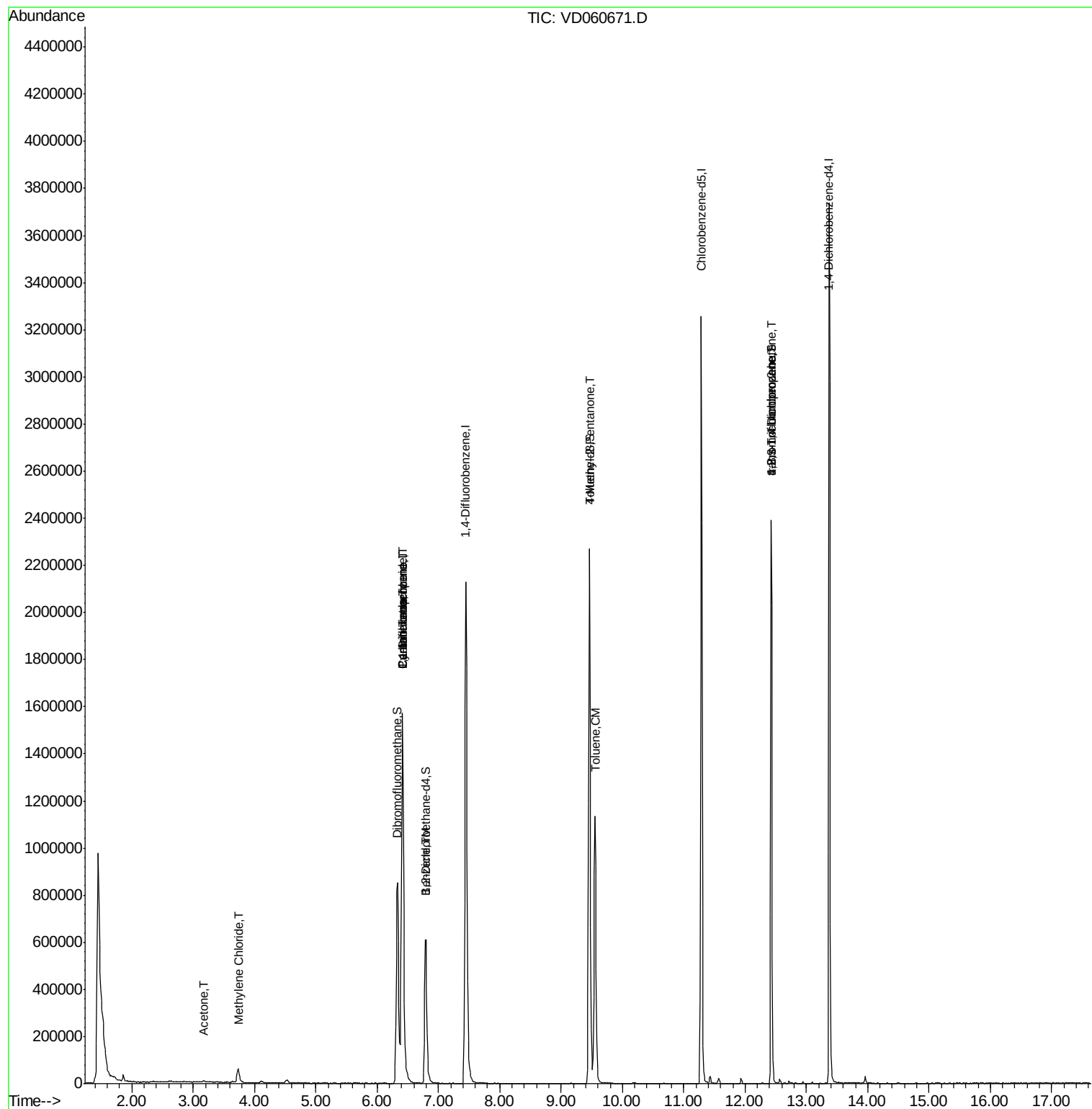
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.17	43	13430	7.195	ug/l	93
20) Methylene Chloride	3.74	84	37474	1.933	ug/l	97
31) Cyclohexane	6.40	56	28069	1.040	ug/l #	1
36) 1,1-Dichloropropene	6.41	75	108054	4.756	ug/l #	46
38) Carbon Tetrachloride	6.41	117	118076	5.891	ug/l #	16
40) Benzene	6.81	78	65266	1.112	ug/l	99
51) 4-Methyl-2-Pentanone	9.45	43	9582	1.283	ug/l #	1
52) Toluene	9.55	92	595768	16.195	ug/l	95
76) 1,2,3-Trichloropropane	12.43	75	236902	23.042	ug/l #	44
81) trans-1,4-Dichloro-2-buten	12.43	75	287584	101.226	ug/l #	13

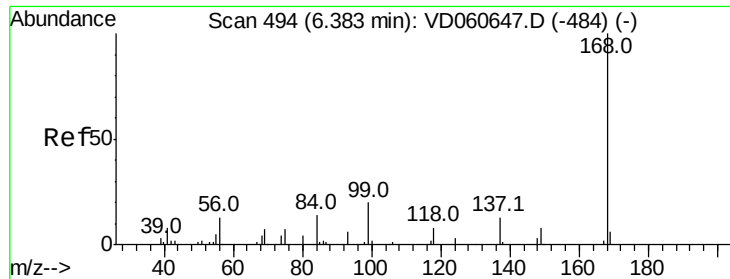
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
Quant Title : SW846 8260
QLast Update : Fri Dec 21 03:34:39 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 527

Delta R.T. 0.01 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

Instrument :

MSVOA_D

ClientSampleId :

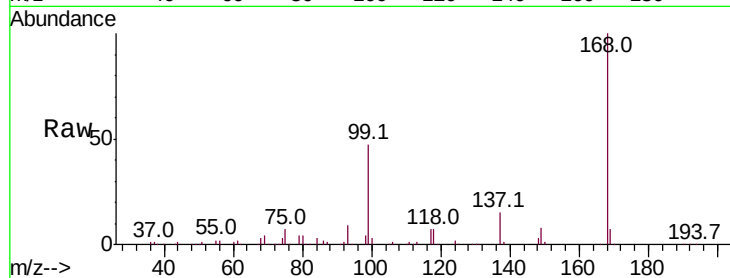
EB08_12-14

Tot Ion:168 Resp: 1546580

Ion Ratio Lower Upper

168 100

99 47.1 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

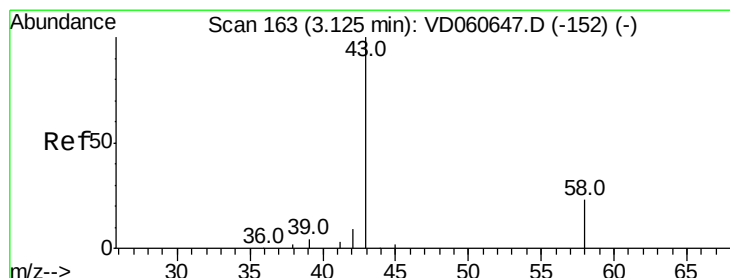
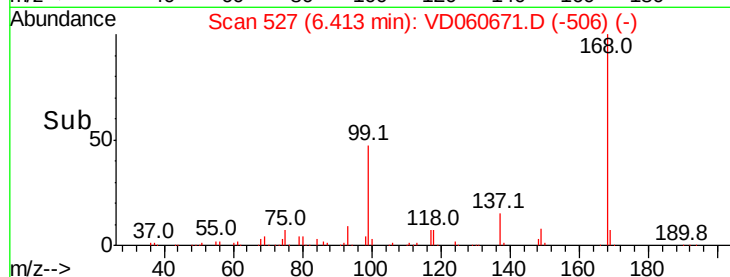
600000

400000

200000

0

Time-->



#16

Acetone

Concen: 7.195 ug/l

RT: 3.17 min Scan# 197

Delta R.T. -0.00 min

Lab File: VD060671.D

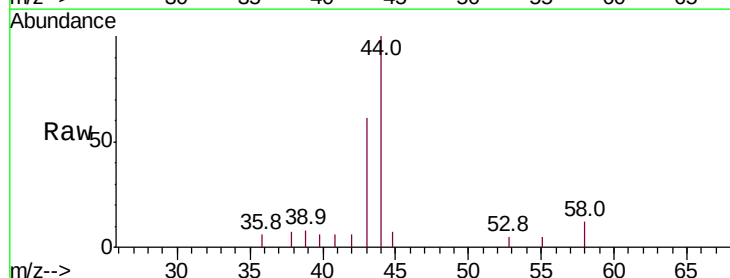
Acq: 20 Dec 2018 21:12

Tgt Ion: 43 Resp: 13430

Ion Ratio Lower Upper

43 100

58 19.6 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.17

4000

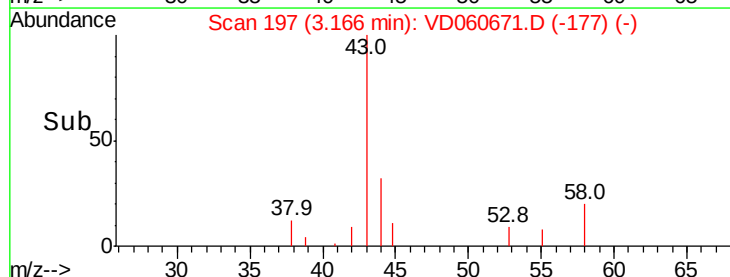
3000

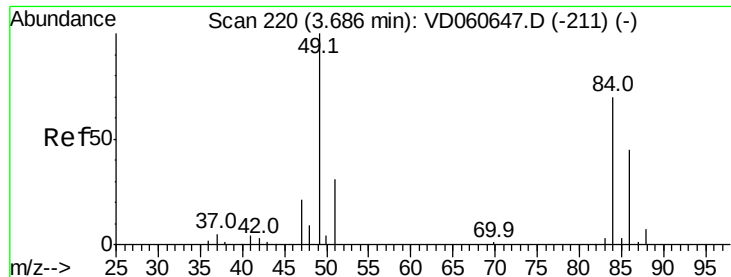
2000

1000

0

Time-->

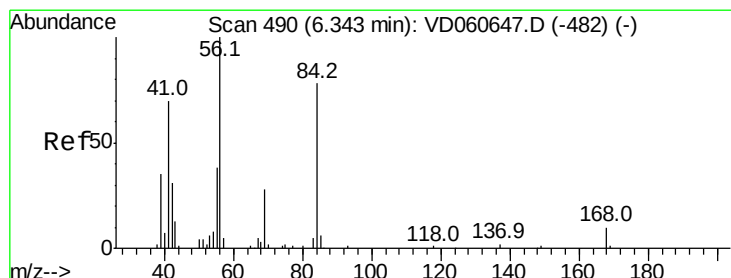
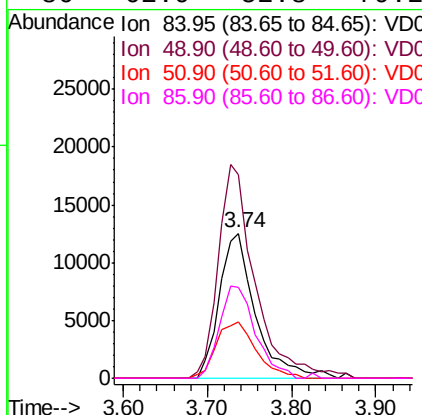
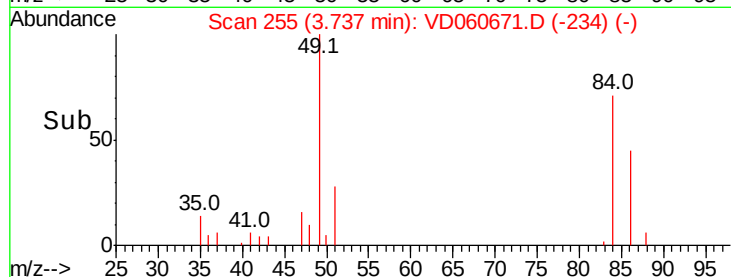
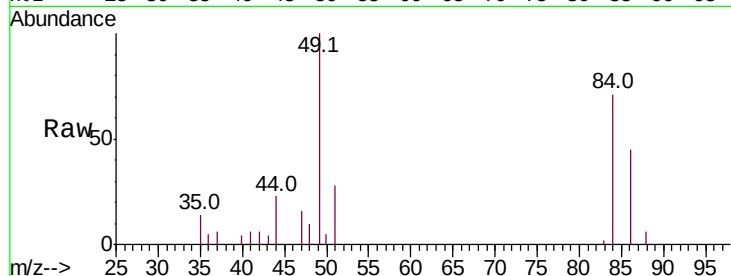




#20
Methvlene Chloride
Concen: 1.933 ug/l
RT: 3.74 min Scan# 255
Delta R.T. 0.01 min
Lab File: VD060671.D
Acq: 20 Dec 2018 21:12

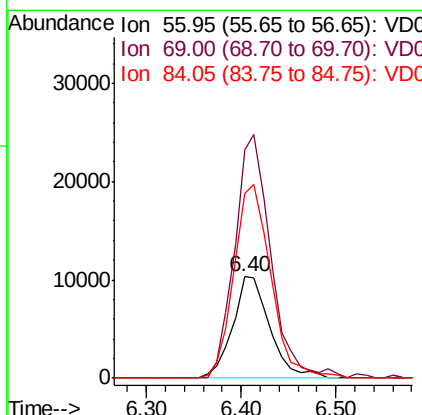
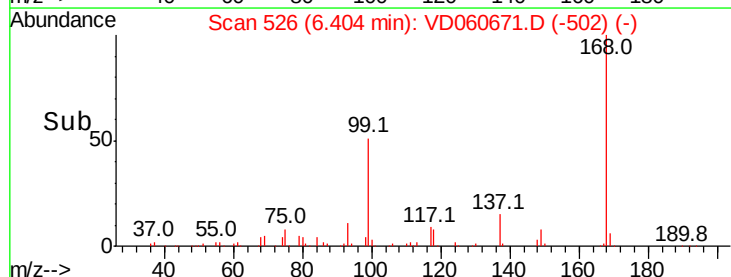
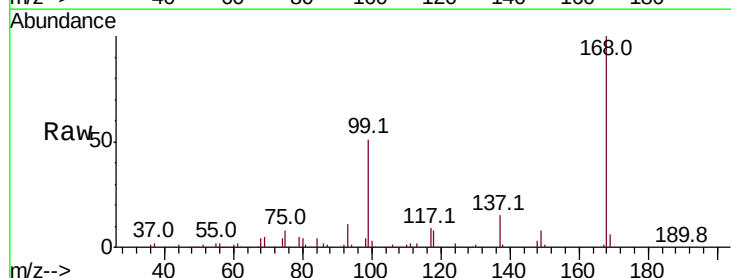
Instrument :
MSVOA_D
ClientSampleId :
EB08_12-14

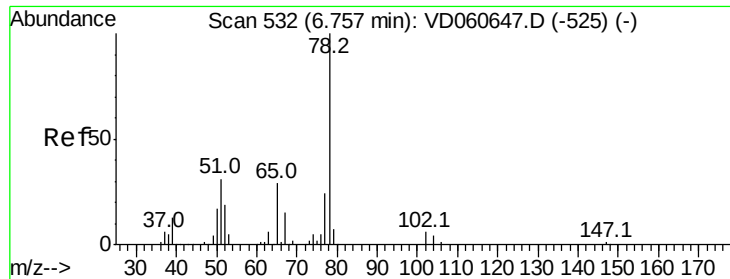
Tot Ion:	84	Resp:	37474
Ion	Ratio	Lower	Upper
84	100		
49	140.5	113.6	170.4
51	38.9	34.7	52.1
86	62.9	52.8	79.2



#31
Cyclohexane
Concen: 1.040 ug/l
RT: 6.40 min Scan# 526
Delta R.T. 0.04 min
Lab File: VD060671.D
Acq: 20 Dec 2018 21:12

Tgt Ion:	56	Resp:	28069
Ion	Ratio	Lower	Upper
56	100		
69	226.1	23.6	35.4#
84	182.5	65.8	98.6#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.79 min Scan# 565

Delta R.T. -0.00 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

Instrument :

MSVOA_D

ClientSampleId :

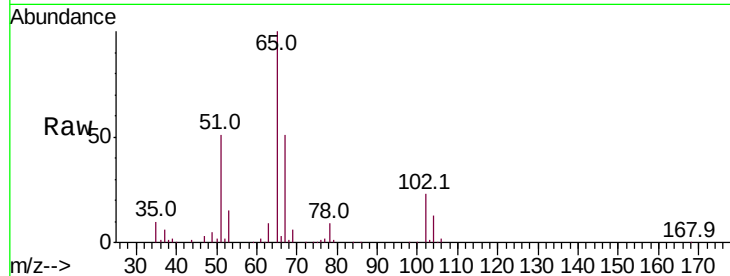
EB08_12-14

Tot Ion: 65 Resp: 484146

Ion Ratio Lower Upper

65 100

67 51.1 0.0 105.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

200000

150000

100000

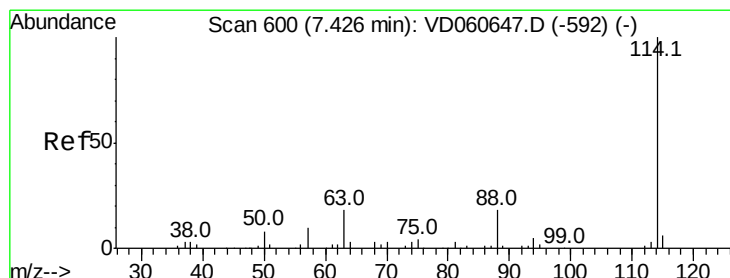
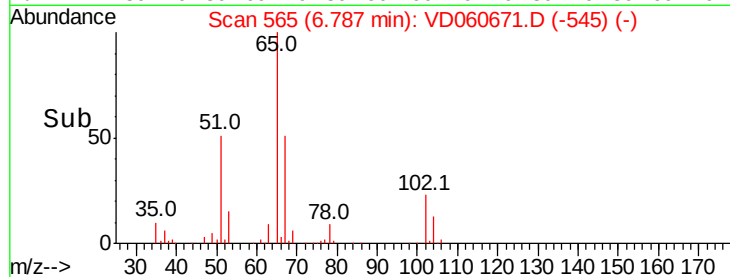
50000

0

6.79

6.70 6.80 6.90 7.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.45 min Scan# 632

Delta R.T. 0.01 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

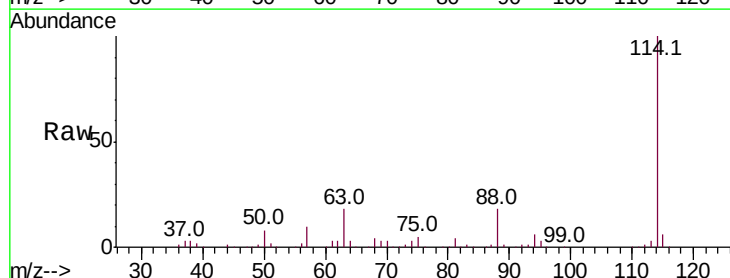
Tgt Ion:114 Resp: 2206187

Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.2

88 18.0 0.0 37.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

1200000

1000000

800000

600000

400000

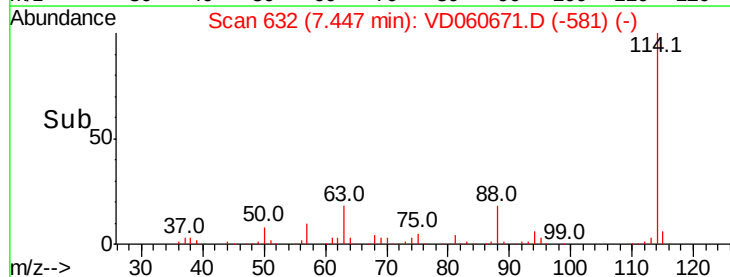
200000

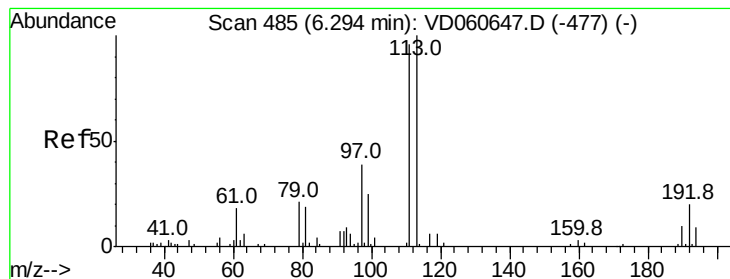
0

7.45

7.40 7.60

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.33 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

Instrument :

MSVOA_D

ClientSampleId :

EB08_12-14

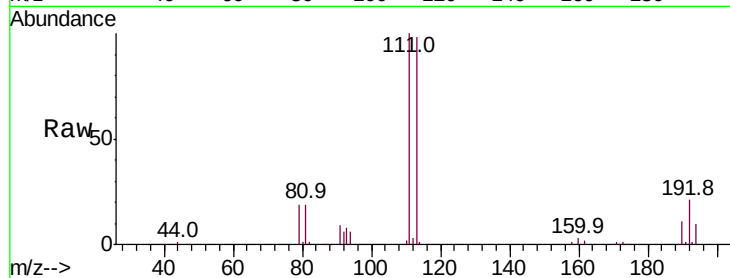
Tot Ion:113 Resp: 684962

Ion Ratio Lower Upper

113 100

111 102.5 80.0 120.0

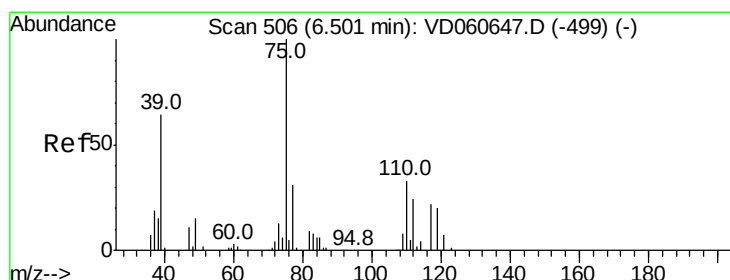
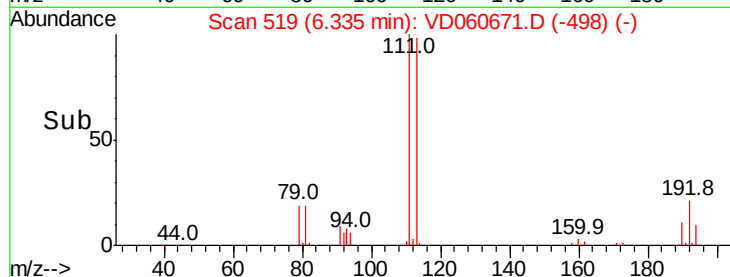
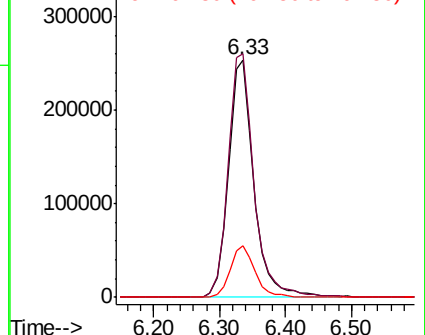
192 22.0 16.6 25.0



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: 4.756 ug/l

RT: 6.41 min Scan# 527

Delta R.T. -0.11 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

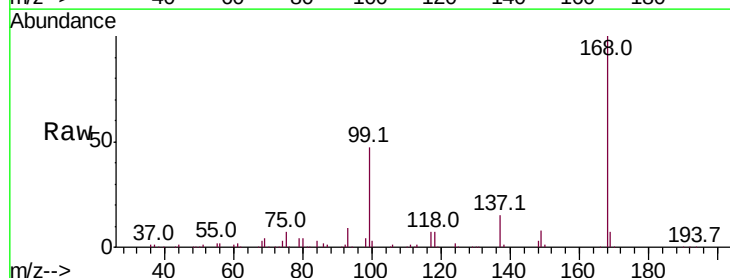
Tgt Ion: 75 Resp: 108054

Ion Ratio Lower Upper

75 100

110 6.6 18.9 56.7#

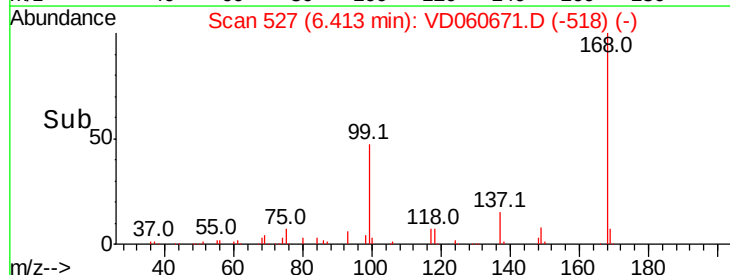
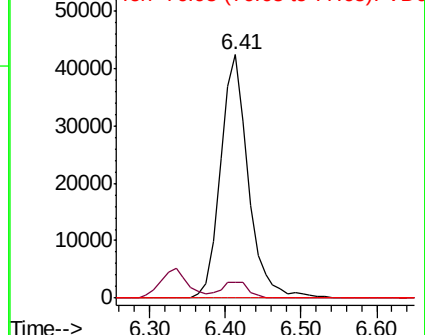
77 0.0 25.4 38.0#

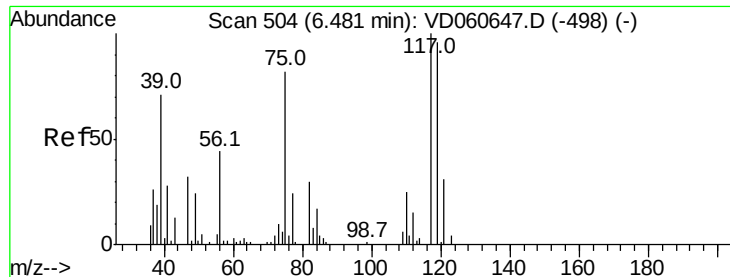


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 5.891 ug/l

RT: 6.41 min Scan# 527

Delta R.T. -0.08 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

Instrument :

MSVOA_D

ClientSampleId :

EB08_12-14

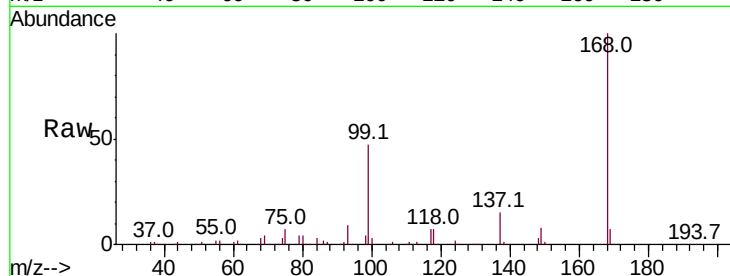
Tot Ion:117 Resp: 118076

Ion Ratio Lower Upper

117 100

119 5.0 77.0 115.4#

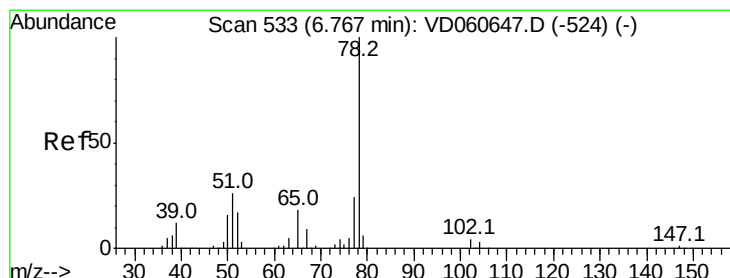
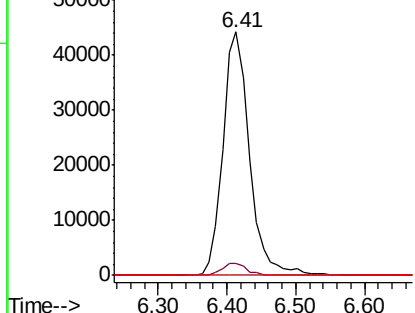
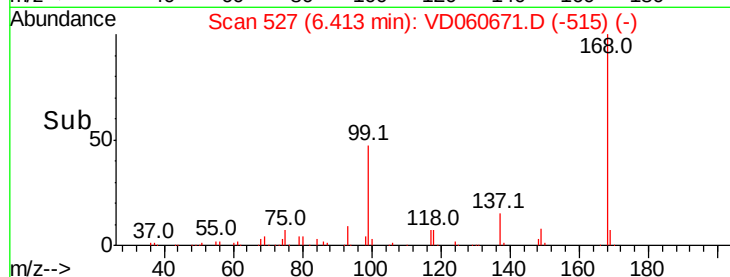
121 0.0 24.7 37.1#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#40

Benzene

Concen: 1.112 ug/l

RT: 6.81 min Scan# 567

Delta R.T. 0.01 min

Lab File: VD060671.D

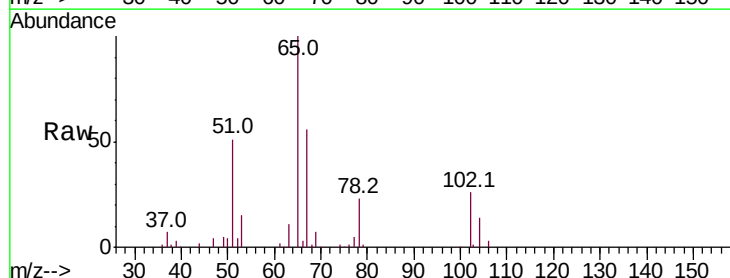
Acq: 20 Dec 2018 21:12

Tgt Ion: 78 Resp: 65266

Ion Ratio Lower Upper

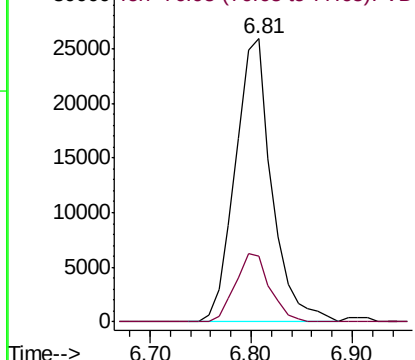
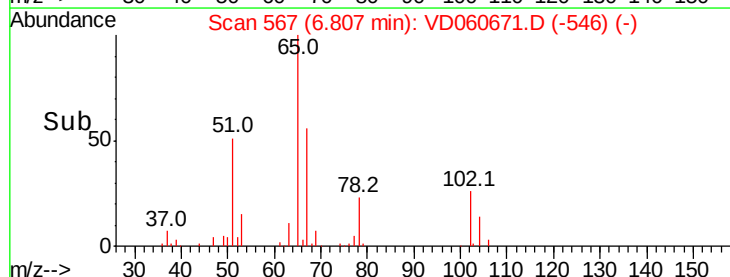
78 100

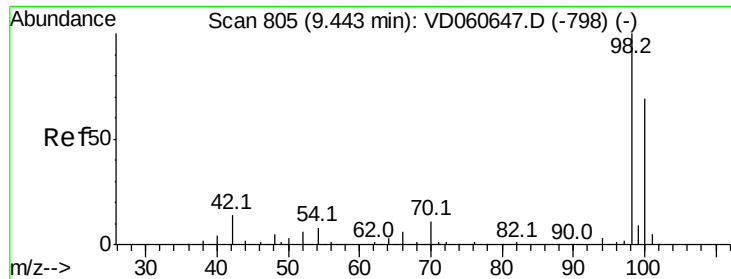
77 23.4 19.2 28.8



Abundance Ion 77.95 (77.65 to 78.65): V

Ion 76.95 (76.65 to 77.65): V

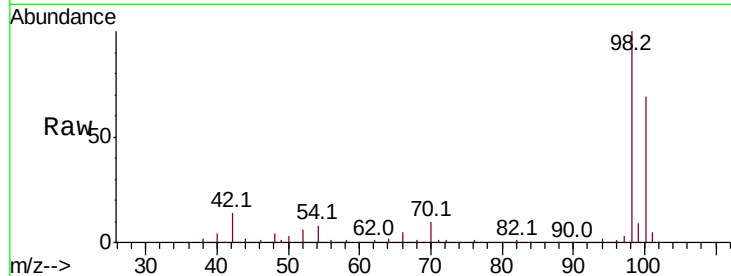




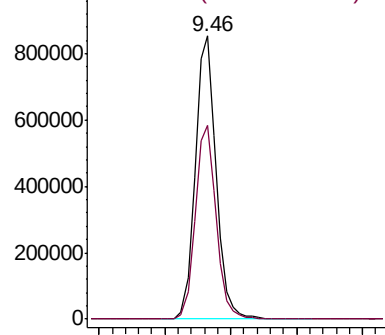
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 837
Delta R.T. 0.01 min
Lab File: VD060671.D
Acq: 20 Dec 2018 21:12

Instrument :
MSVOA_D
ClientSampleId :
EB08_12-14

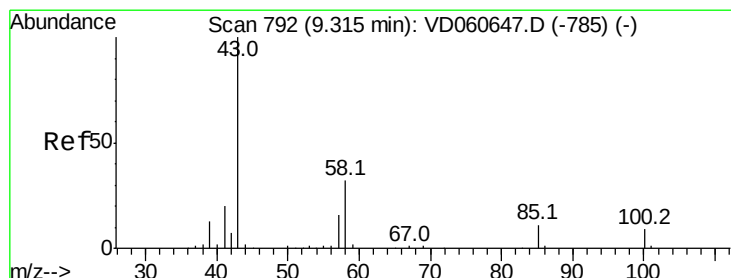
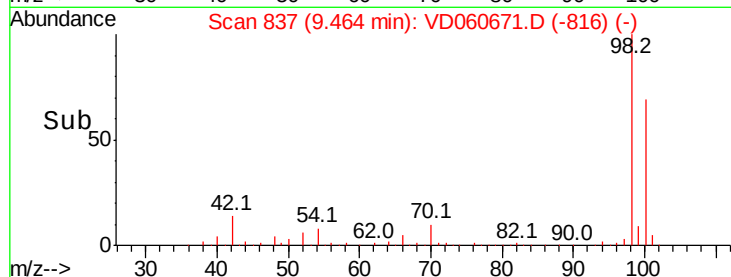
Tot Ion: 98 Resp: 1876284
Ion Ratio Lower Upper
98 100
100 68.5 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

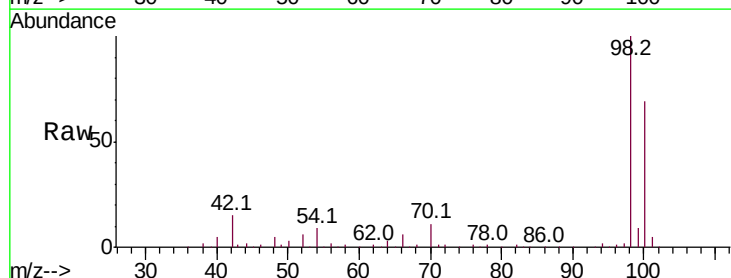


Time--> 9.30 9.40 9.50 9.60 9.70

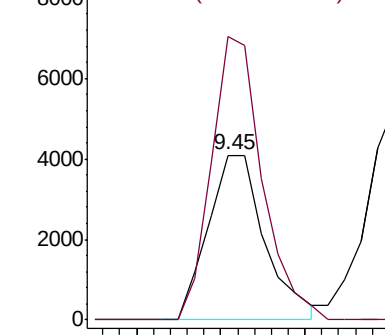


#51
4-Methyl-2-Pentanone
Concen: 1.283 ug/l
RT: 9.45 min Scan# 836
Delta R.T. 0.11 min
Lab File: VD060671.D
Acq: 20 Dec 2018 21:12

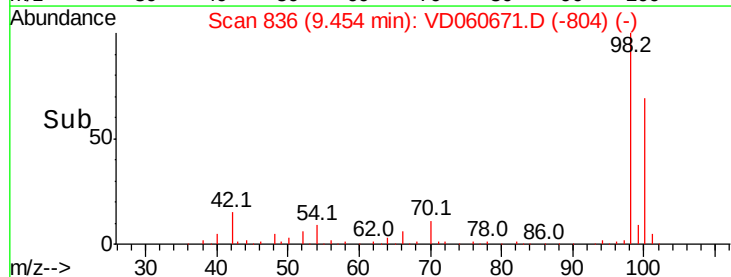
Tgt Ion: 43 Resp: 9582
Ion Ratio Lower Upper
43 100
58 171.8 26.3 39.5#

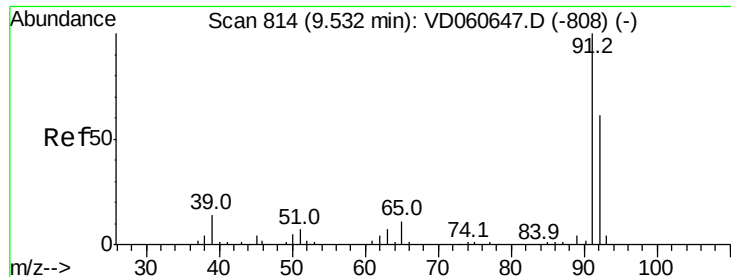


Abundance Ion 42.95 (42.65 to 43.65): VD0
Ion 57.95 (57.65 to 58.65): VD0



Time--> 9.40 9.45 9.50





#52

Toluene

Concen: 16.195 ug/l

RT: 9.55 min Scan# 846

Delta R.T. 0.01 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

Instrument :

MSVOA_D

ClientSampleId :

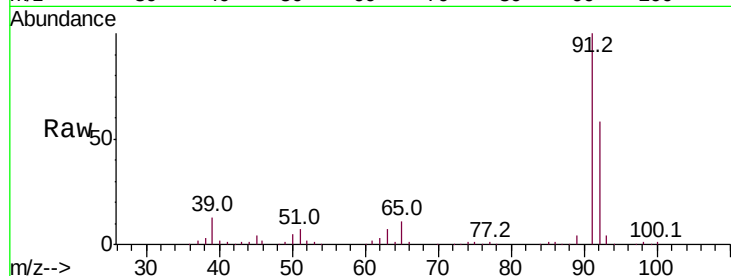
EB08_12-14

Tot Ion: 92 Resp: 595768

Ion Ratio Lower Upper

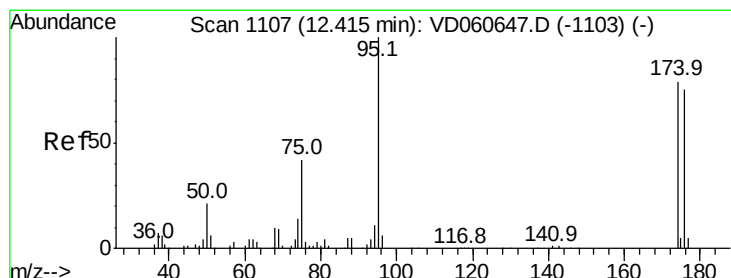
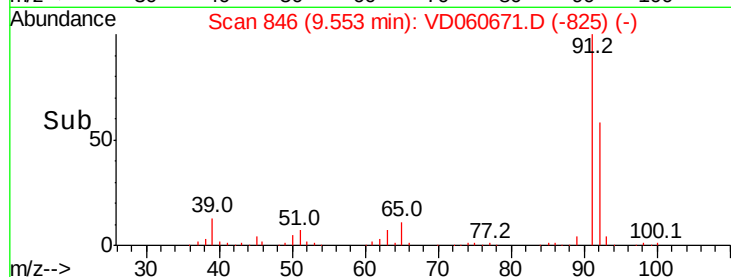
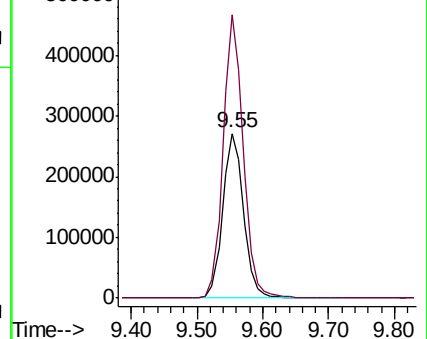
92 100

91 171.9 132.6 199.0



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: 12.43 min Scan# 1138

Delta R.T. 0.01 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

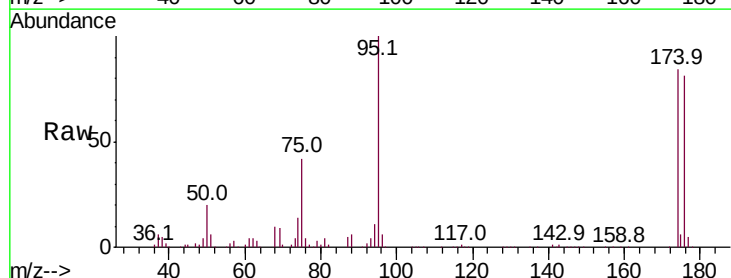
Tgt Ion: 95 Resp: 687706

Ion Ratio Lower Upper

95 100

174 84.2 0.0 158.2

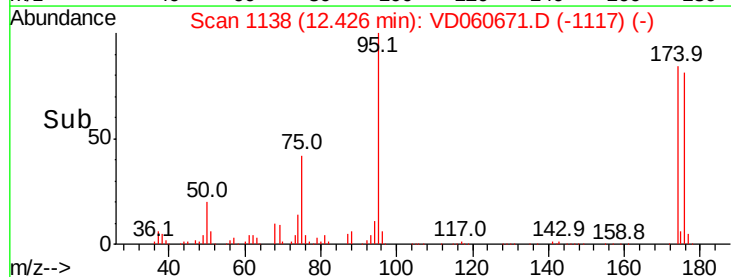
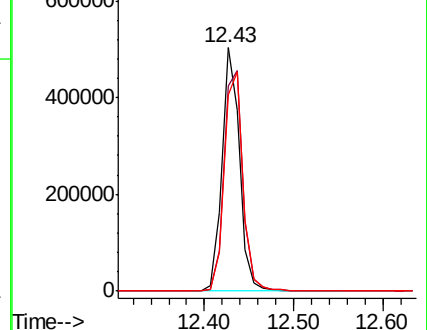
176 80.8 0.0 152.4

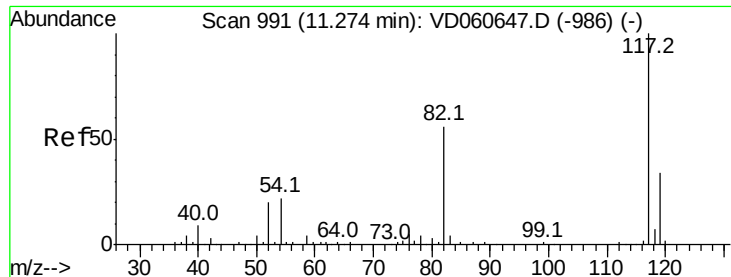


Abundance Ion 95.00 (94.70 to 95.70): VDC

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: 11.28 min Scan# 1022

Delta R.T. 0.01 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

Instrument :

MSVOA_D

ClientSampleId :

EB08_12-14

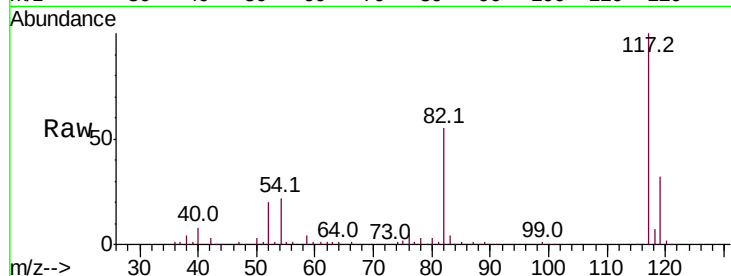
Tot Ion:117 Resp: 1756126

Ion Ratio Lower Upper

117 100

82 55.5 44.5 66.7

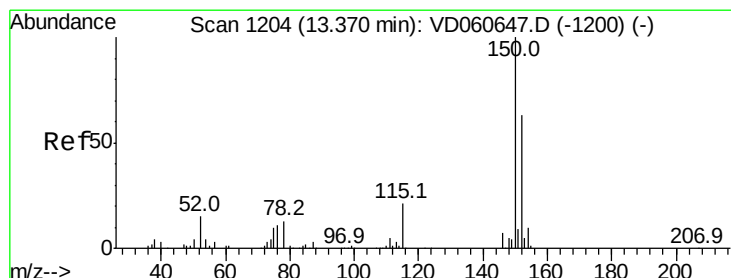
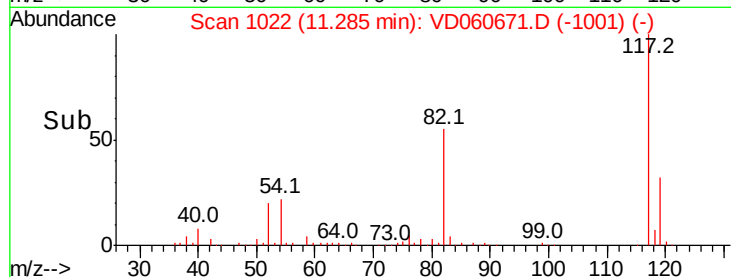
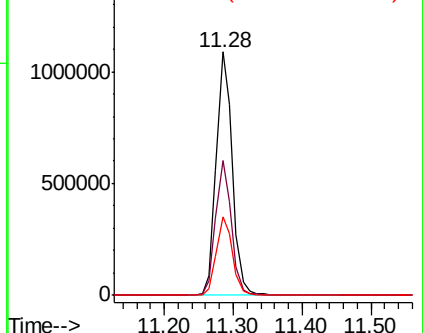
119 32.5 26.3 39.5



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: 13.37 min Scan# 1234

Delta R.T. -0.00 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

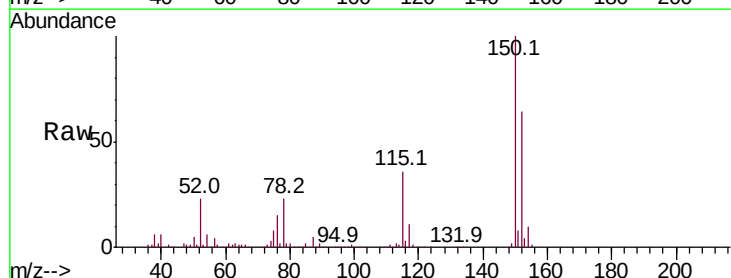
Tgt Ion:152 Resp: 903077

Ion Ratio Lower Upper

152 100

115 56.2 24.1 72.3

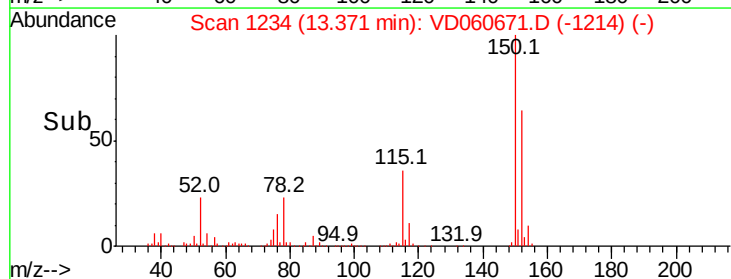
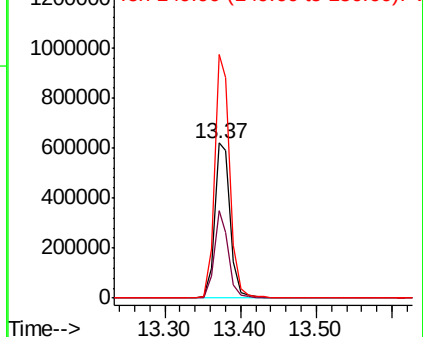
150 156.9 0.0 315.0

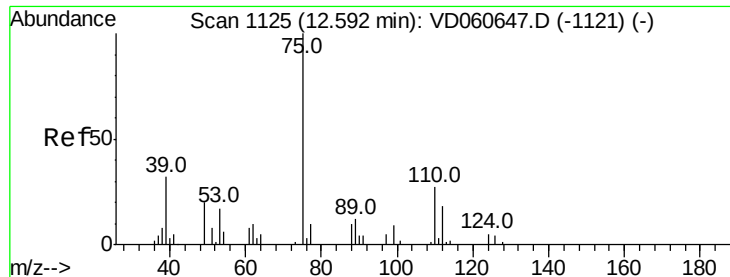


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.042 ug/l

RT: 12.43 min Scan# 1138

Delta R.T. -0.17 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

Instrument :

MSVOA_D

ClientSampleId :

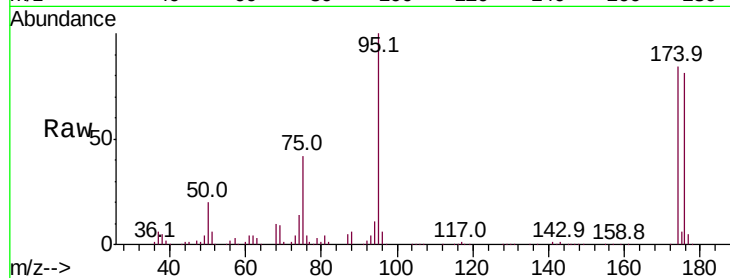
EB08_12-14

Tot Ion: 75 Resp: 236902

Ion Ratio Lower Upper

75 100

77 1.7 16.7 50.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

250000

200000

150000

100000

50000

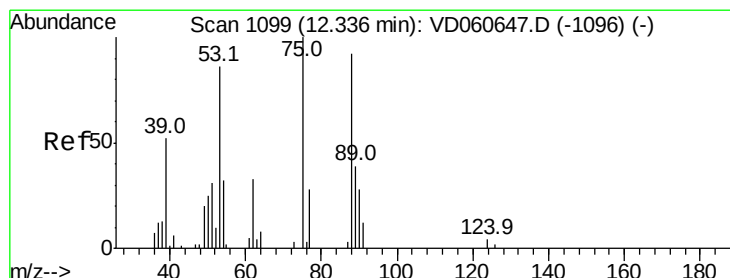
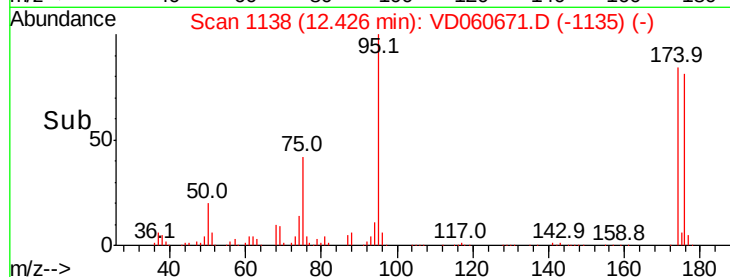
0

12.43

12.45

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 101.226 ug/l

RT: 12.43 min Scan# 1138

Delta R.T. 0.08 min

Lab File: VD060671.D

Acq: 20 Dec 2018 21:12

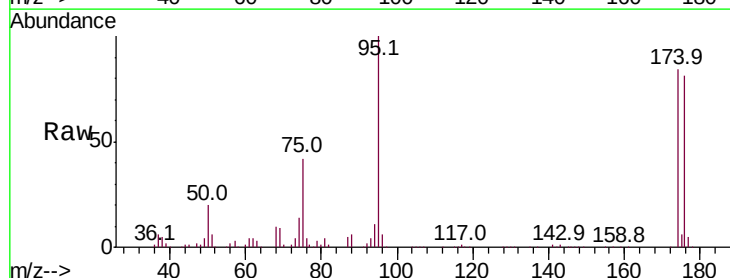
Tgt Ion: 75 Resp: 287584

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

89 0.0 35.1 52.7#



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

250000

200000

150000

100000

50000

0

12.43

12.45

12.50

Time-->

