

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032019\
 Data File : VD061221.D
 Acq On : 20 Mar 2019 21:16
 Operator : VA/AP
 Sample : K2004-08
 Misc : 3.64g/5ml/MSVOA D/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 22 02:03:56 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	7.03	168	402567	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	678613	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	428268	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	103849	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	184922	55.19	ug/l	0.00
Spiked Amount			Recovery	=	110.38%	
35) Dibromofluoromethane	6.91	113	271693	53.95	ug/l	-0.01
Spiked Amount			Recovery	=	107.90%	
50) Toluene-d8	10.40	98	516947	40.88	ug/l	0.00
Spiked Amount			Recovery	=	81.76%	
62) 4-Bromofluorobenzene	13.55	95	123579	25.18	ug/l	0.00
Spiked Amount			Recovery	=	50.36%	

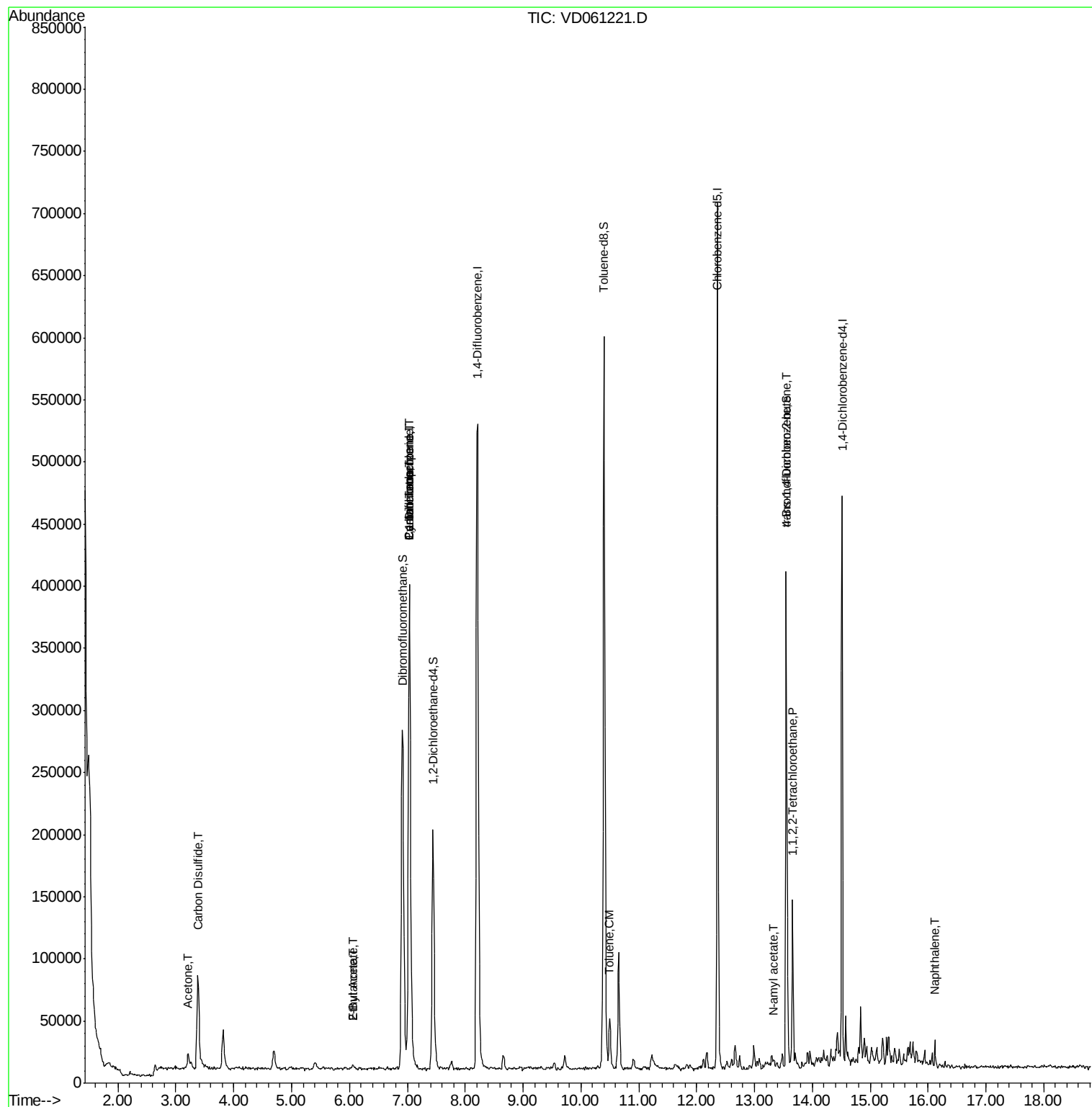
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.21	43	24602	25.675	ug/l	95
17) Carbon Disulfide	3.38	76	163850	12.020	ug/l	100
25) 2-Butanone	6.05	43	6917	6.362	ug/l #	89
31) Cyclohexane	7.03	56	7248	1.222	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	28488	4.870	ug/l #	46
37) Ethyl Acetate	6.05	43	6917	2.520	ug/l #	66
38) Carbon Tetrachloride	7.03	117	39238	6.090	ug/l #	14
52) Toluene	10.50	92	22014	2.422	ug/l	98
74) N-amyl acetate	13.32	43	4799	2.277	ug/l #	34
75) 1,1,2,2-Tetrachloroethane	13.66	83	1698	1.163	ug/l #	6
81) trans-1,4-Dichloro-2-buten	13.55	75	45225	102.672	ug/l #	17
95) Naphthalene	16.12	128	13432	6.700	ug/l #	94

(#) = 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: 7.03 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

Instrument :

MSVOA_D

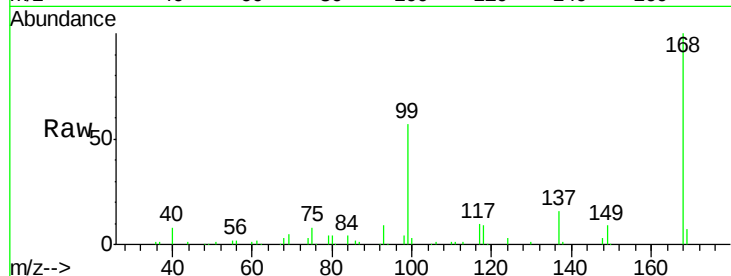
ClientSampleId :

Tot Ion:168 Resp: 402567

Ion Ratio Lower Upper

168 100

99 57.1 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

150000

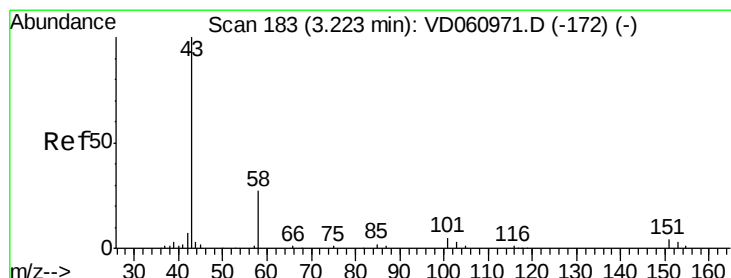
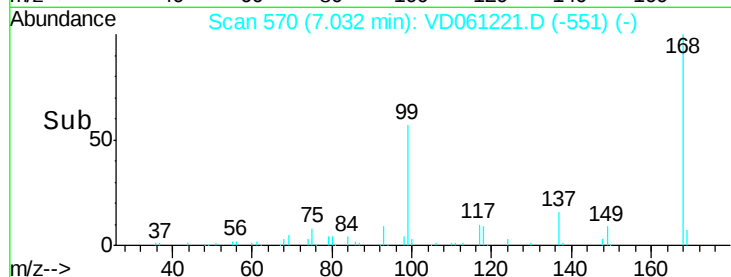
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#16

Acetone

Concen: 25.675 ug/l

RT: 3.21 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD061221.D

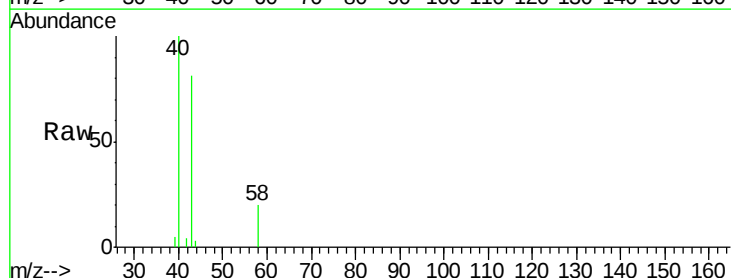
Acq: 20 Mar 2019 21:16

Tgt Ion: 43 Resp: 24602

Ion Ratio Lower Upper

43 100

58 24.5 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

10000

8000

6000

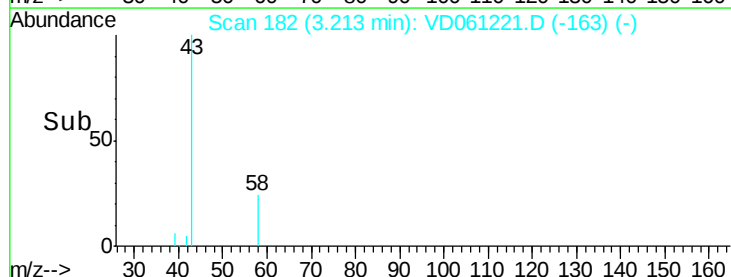
4000

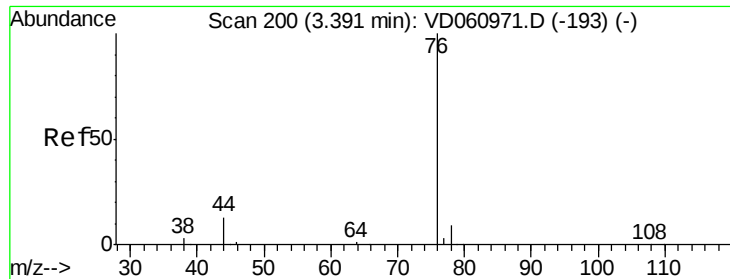
2000

0

Time-->

3.10 3.20 3.30 3.40





#17

Carbon Disulfide

Concen: 12.020 ug/l

RT: 3.38 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

Instrument :

MSVOA_D

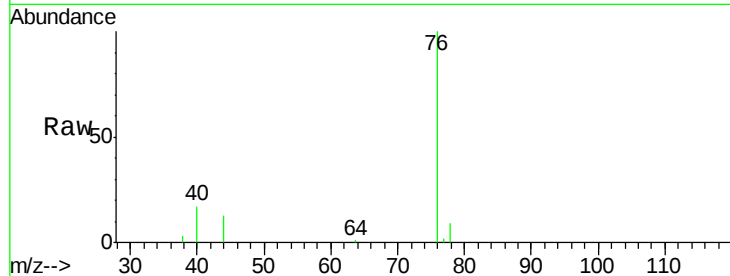
ClientSampleId :

Tot Ion: 76 Resp: 163850

Ion Ratio Lower Upper

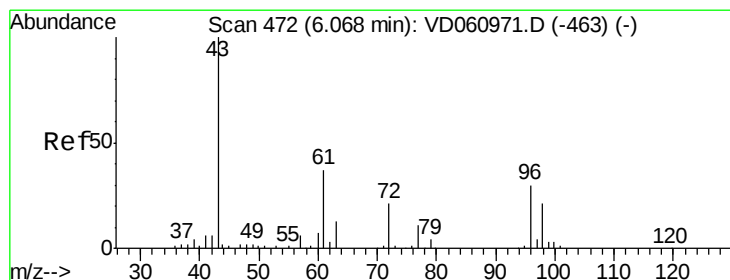
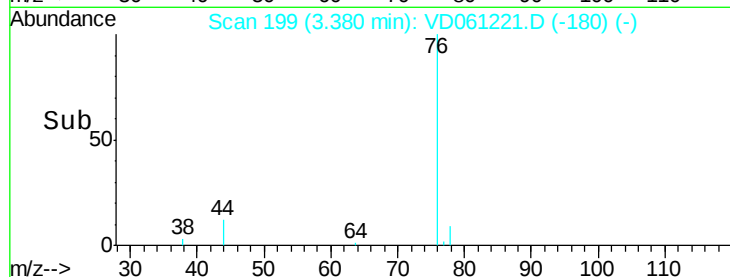
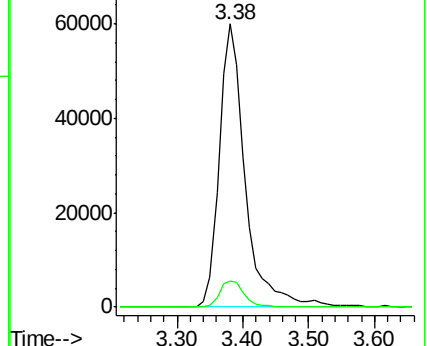
76 100

78 9.3 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#25

2-Butanone

Concen: 6.362 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.02 min

Lab File: VD061221.D

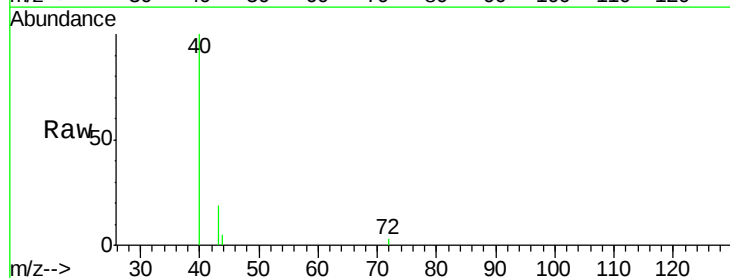
Acq: 20 Mar 2019 21:16

Tgt Ion: 43 Resp: 6917

Ion Ratio Lower Upper

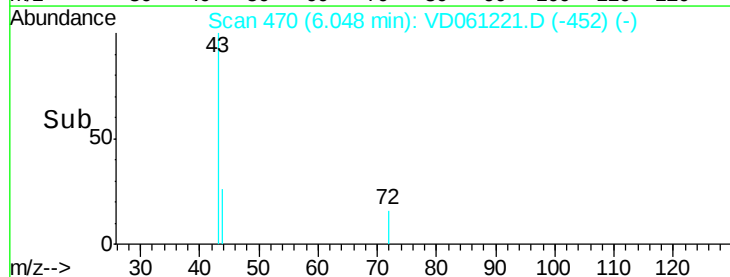
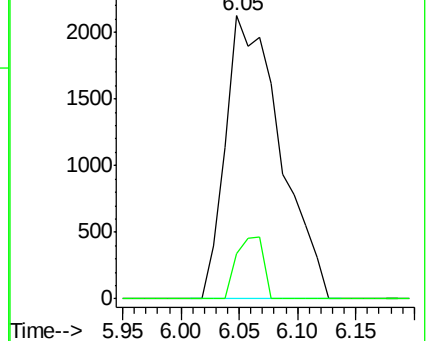
43 100

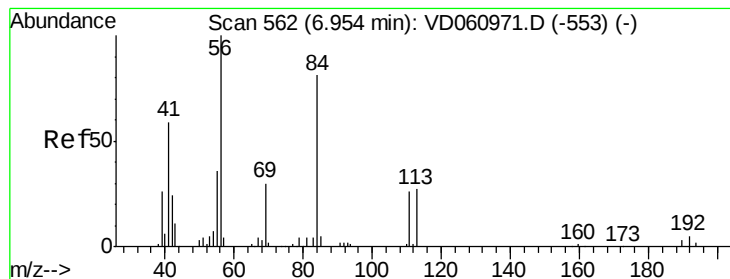
72 16.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.222 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.08 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

Instrument :

MSVOA_D

ClientSampleId :

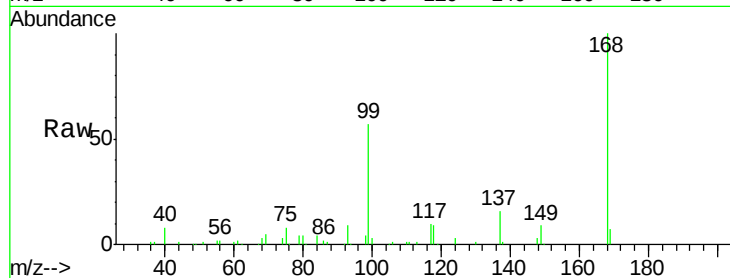
Tot Ion: 56 Resp: 7248

Ion Ratio Lower Upper

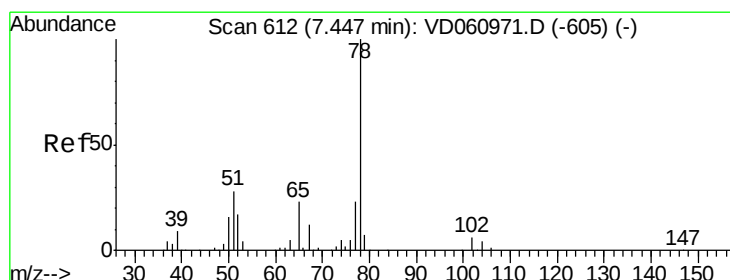
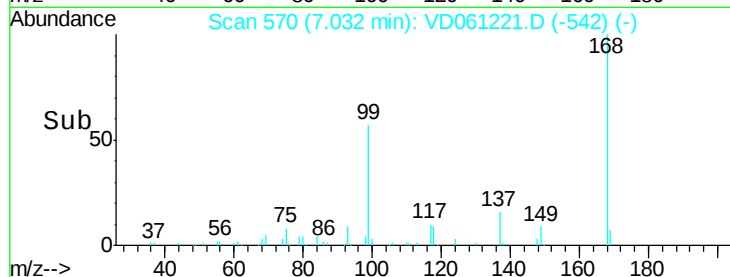
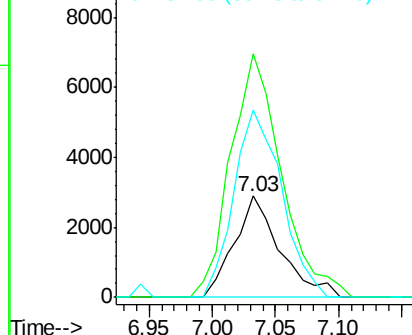
56 100

69 241.0 24.0 36.0#

84 185.9 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: VD061221.D

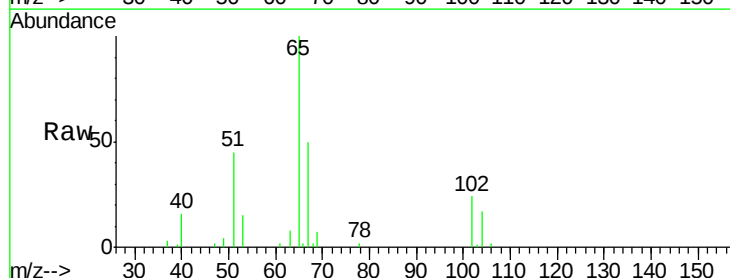
Acq: 20 Mar 2019 21:16

Tgt Ion: 65 Resp: 184922

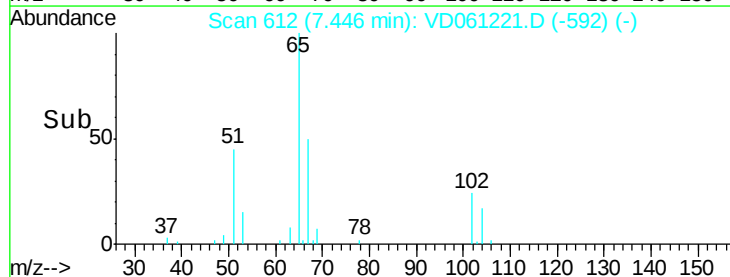
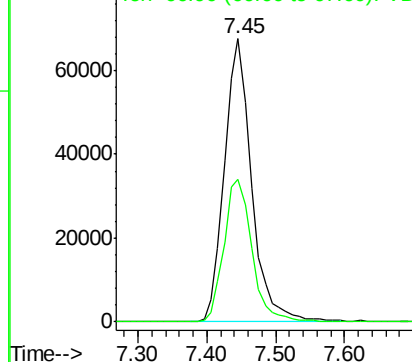
Ion Ratio Lower Upper

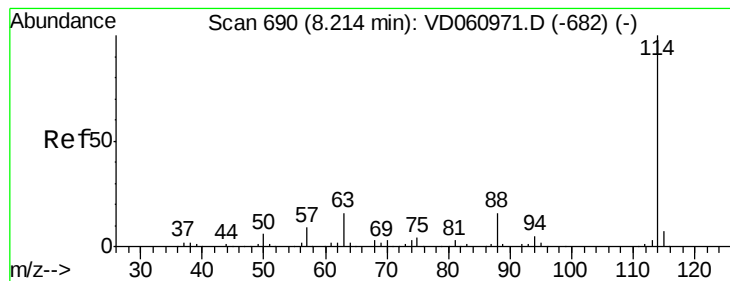
65 100

67 50.4 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: VD061221.D

Acq: 20 Mar 2019 21:16

Instrument :

MSVOA_D

ClientSampleId :

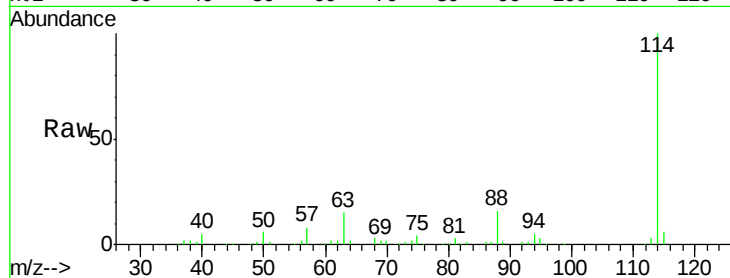
Tot Ion:114 Resp: 678613

Ion Ratio Lower Upper

114 100

63 15.2 0.0 31.4

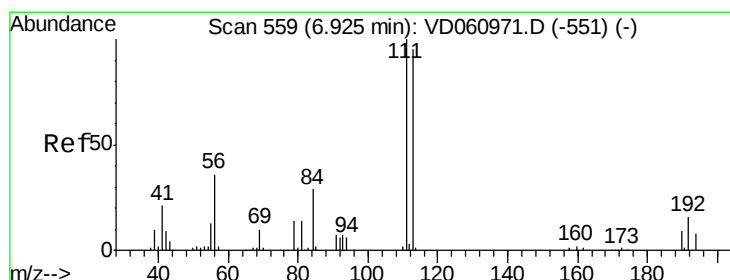
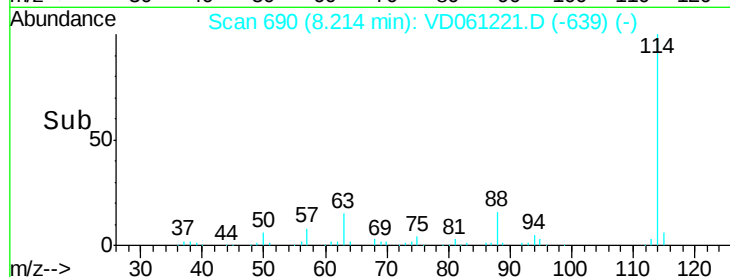
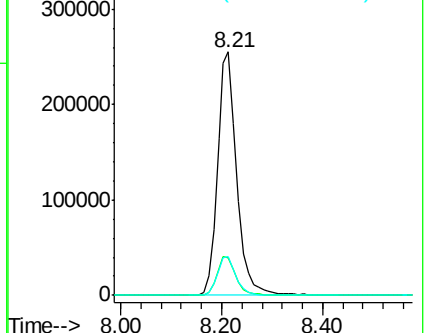
88 15.9 0.0 33.0



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: 6.91 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

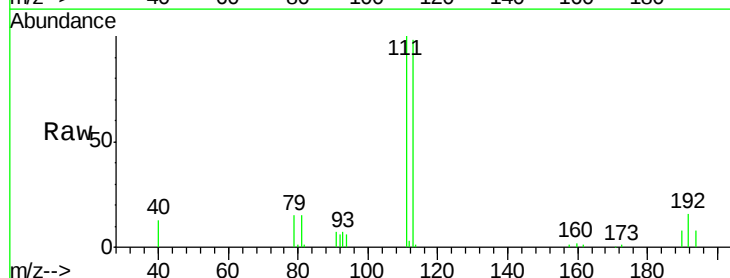
Tgt Ion:113 Resp: 271693

Ion Ratio Lower Upper

113 100

111 102.2 84.2 126.4

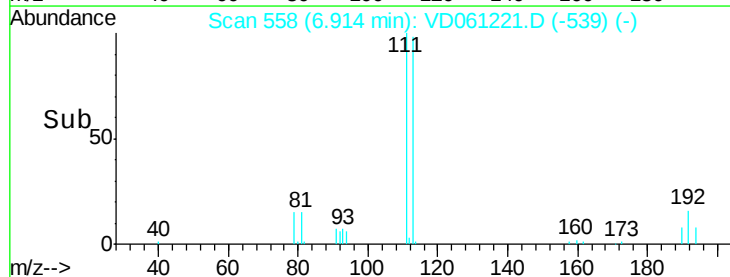
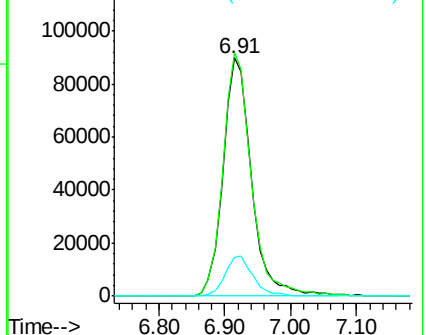
192 16.5 13.1 19.7

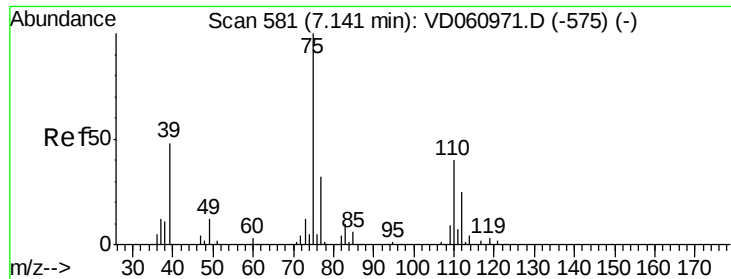


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.870 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.11 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

Instrument :

MSVOA_D

ClientSampleId :

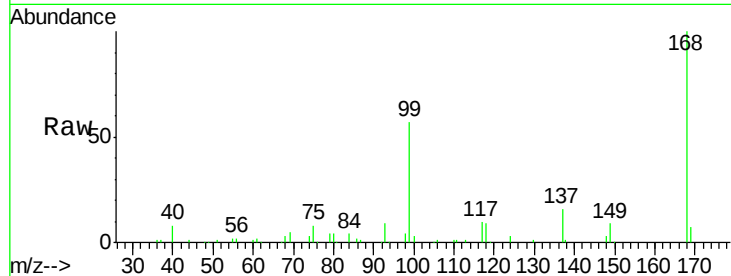
Tot Ion: 75 Resp: 28488

Ion Ratio Lower Upper

75 100

110 7.7 19.7 59.1#

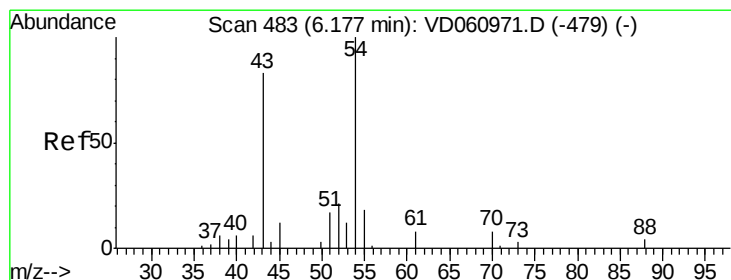
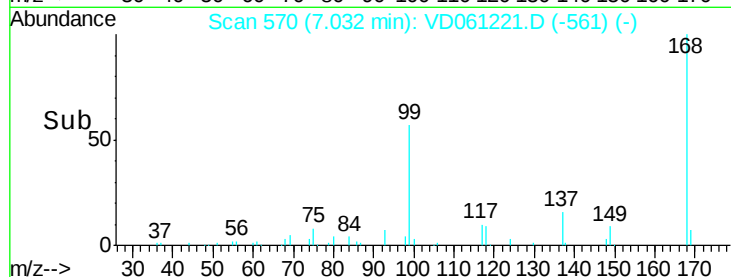
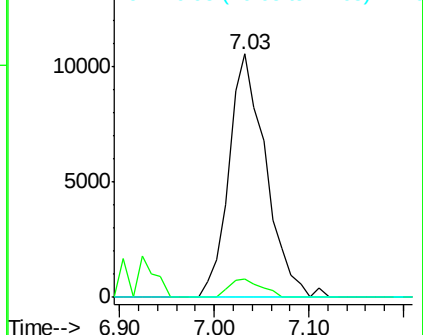
77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 2.520 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.13 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

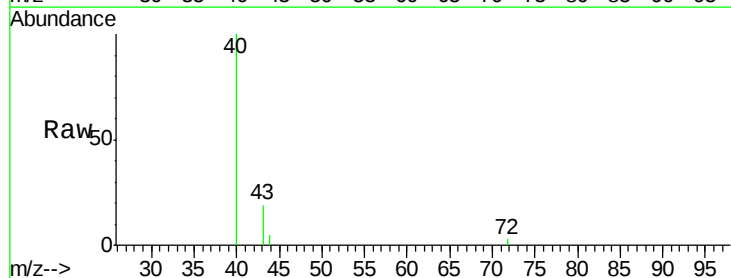
Tgt Ion: 43 Resp: 6917

Ion Ratio Lower Upper

43 100

61 0.0 13.7 20.5#

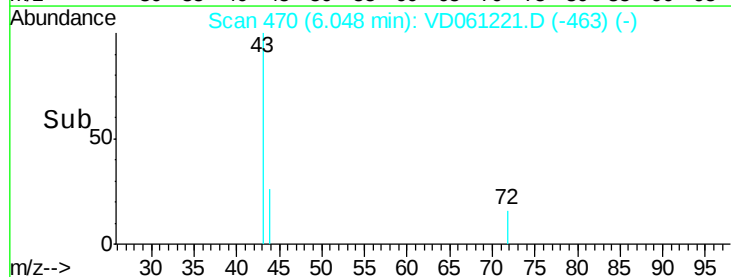
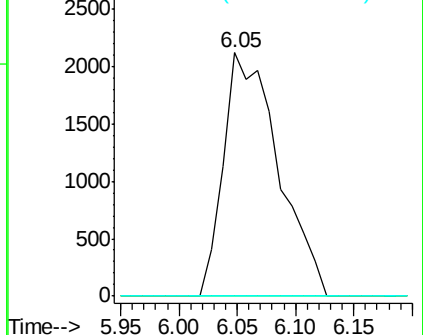
70 0.0 7.1 10.7#

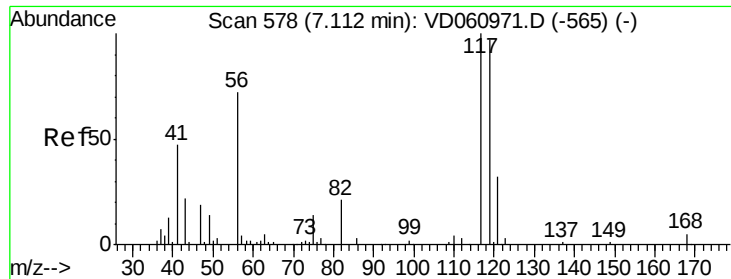


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

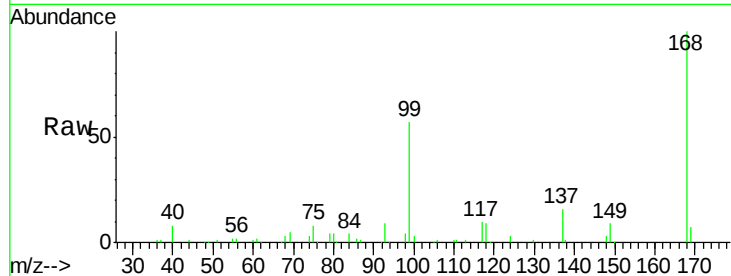




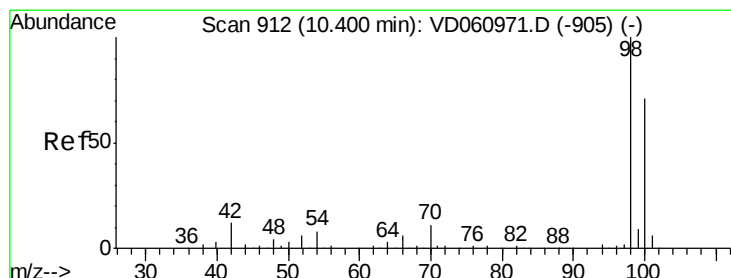
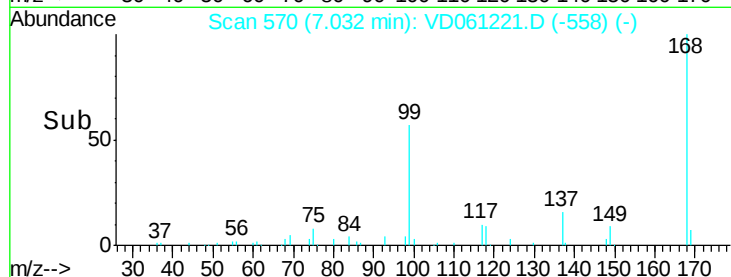
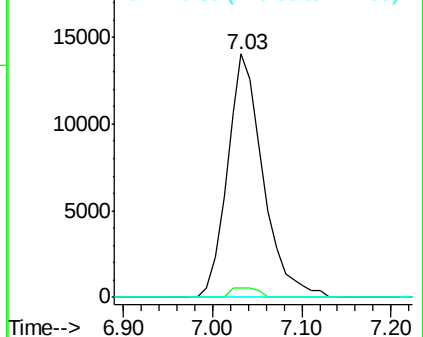
#38
Carbon Tetrachloride
Concen: 6.090 ug/l
RT: 7.03 min Scan# 570
Delta R.T. -0.08 min
Lab File: VD061221.D
Acq: 20 Mar 2019 21:16

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 39238
Ion Ratio Lower Upper
117 100
119 3.8 77.8 116.8#
121 0.0 25.3 37.9#

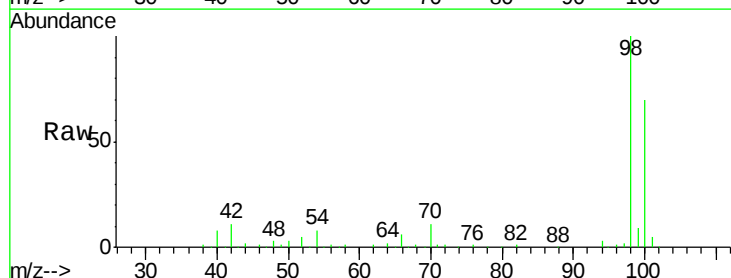


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

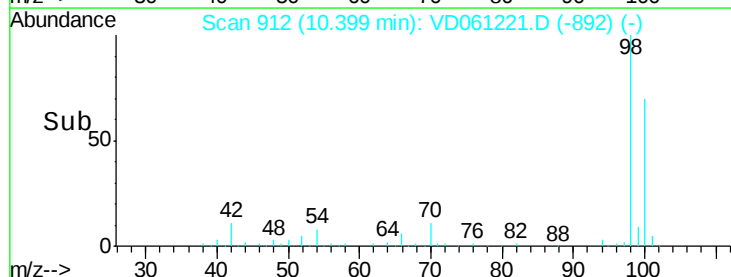
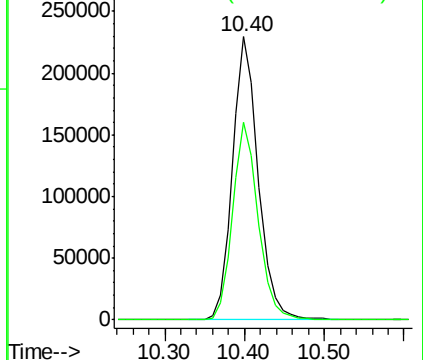


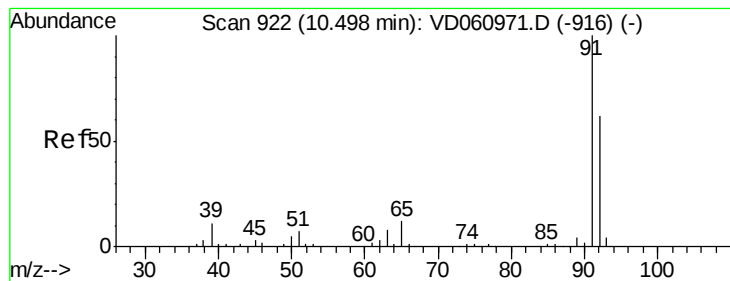
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD061221.D
Acq: 20 Mar 2019 21:16

Tgt Ion: 98 Resp: 516947
Ion Ratio Lower Upper
98 100
100 69.7 57.4 86.2



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





#52

Toluene

Concen: 2.422 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.00 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

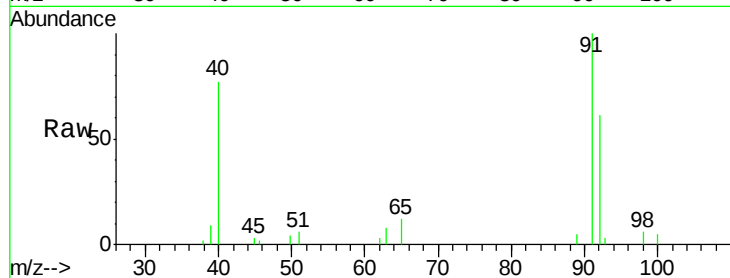
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 92 Resp: 22014

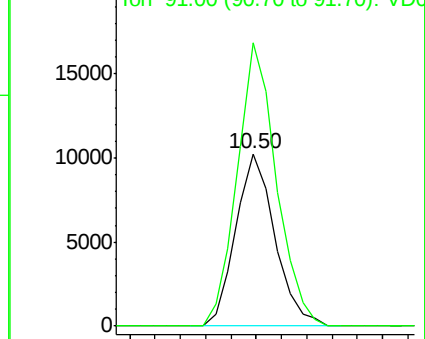
Ion Ratio Lower Upper

92 100

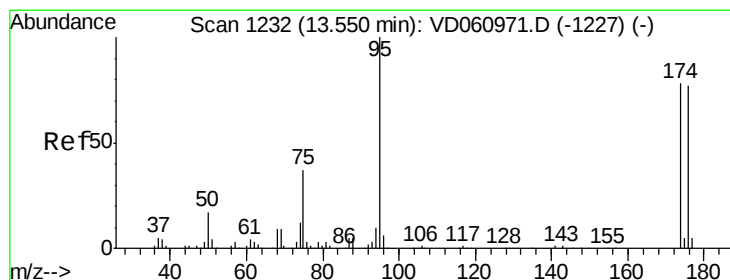
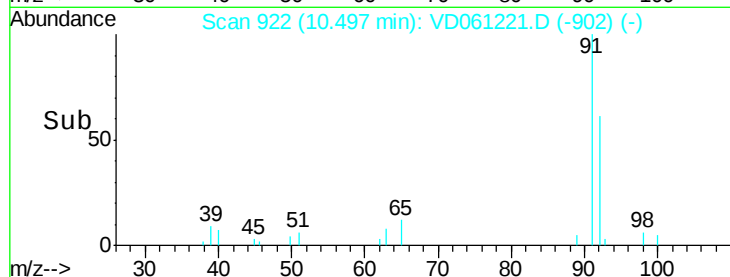
91 164.5 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



Time--> 10.40 10.50 10.60



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

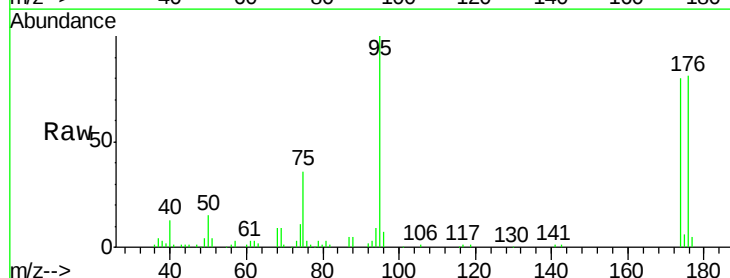
Tgt Ion: 95 Resp: 123579

Ion Ratio Lower Upper

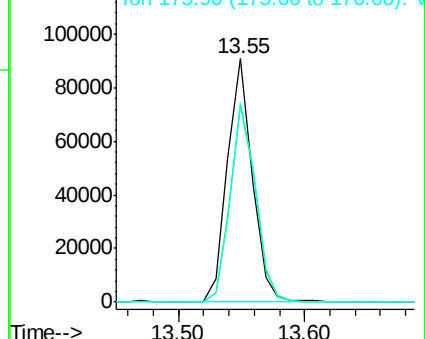
95 100

174 80.4 0.0 155.6

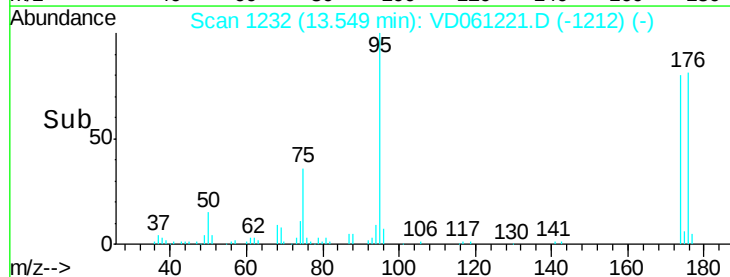
176 81.5 0.0 153.8

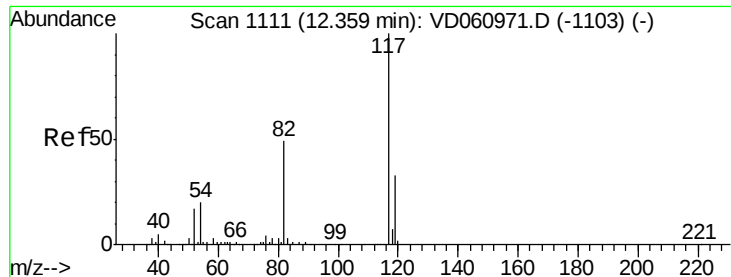


Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V



Time--> 13.50 13.60

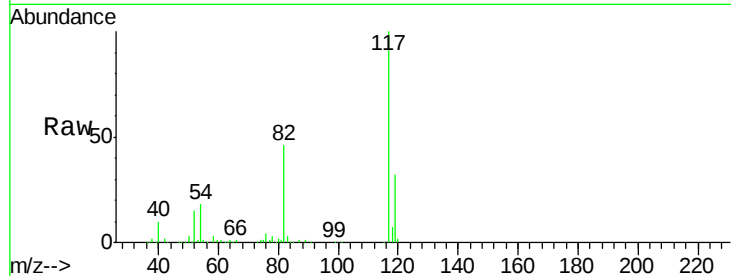




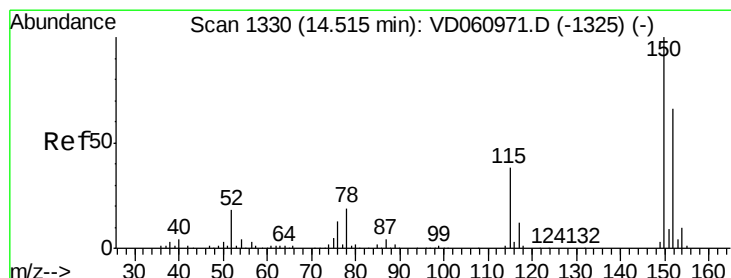
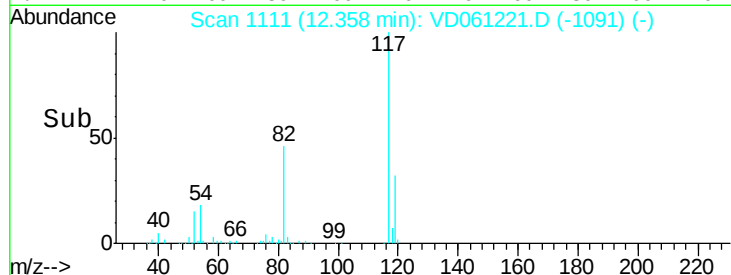
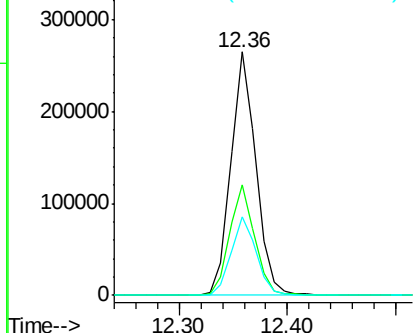
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD061221.D
Acq: 20 Mar 2019 21:16

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 428268
Ion Ratio Lower Upper
117 100
82 45.5 38.9 58.3
119 32.5 26.6 39.8

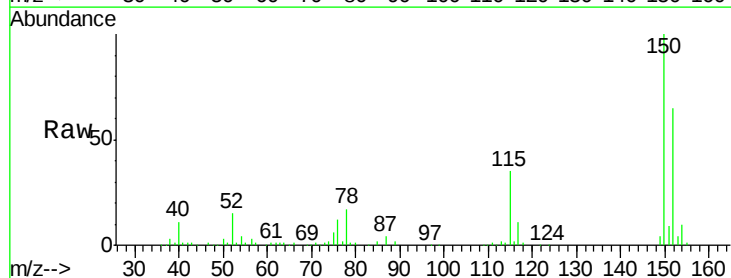


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

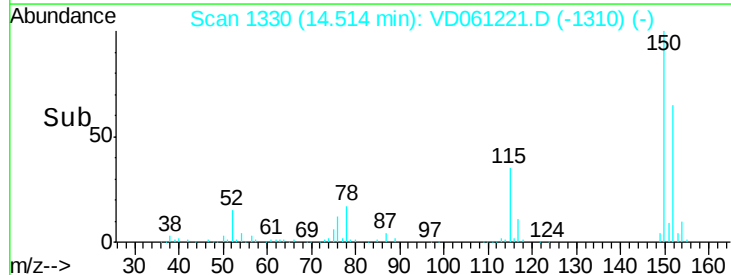
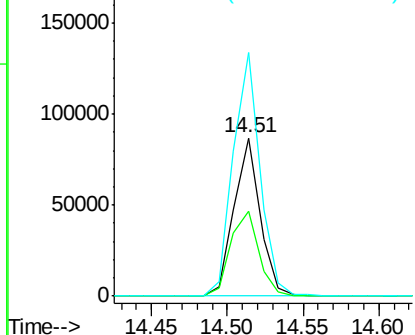


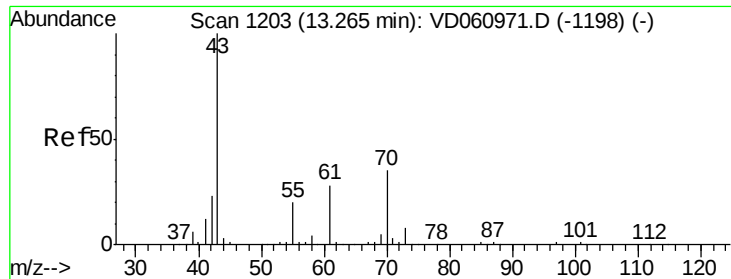
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061221.D
Acq: 20 Mar 2019 21:16

Tgt Ion:152 Resp: 103849
Ion Ratio Lower Upper
152 100
115 53.9 28.6 85.9
150 153.9 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-amvl acetate

Concen: 2.277 ug/l

RT: 13.32 min Scan# 1209

Delta R.T. 0.06 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 43 Resp: 4799

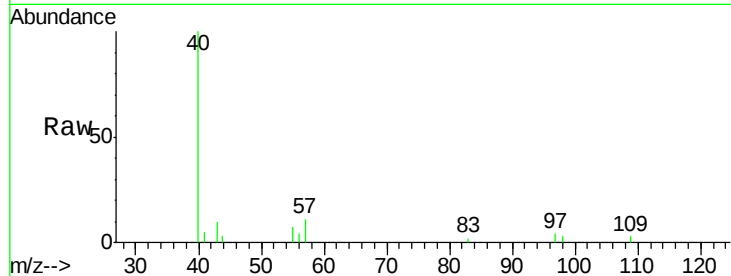
Ion Ratio Lower Upper

43 100

70 0.0 27.7 41.5#

55 64.4 16.2 24.2#

61 0.0 22.3 33.5#

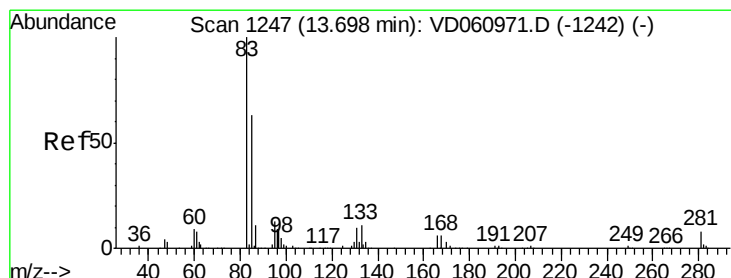
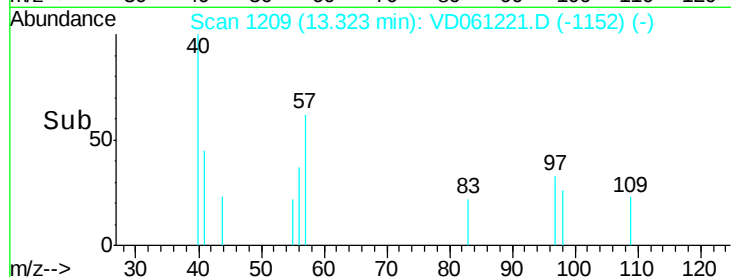
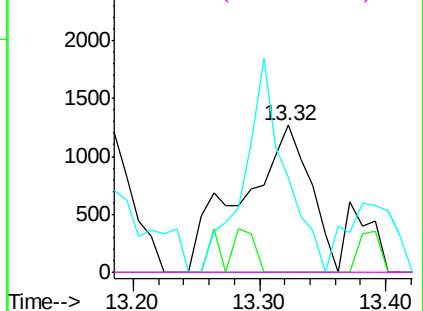


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 1.163 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.04 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

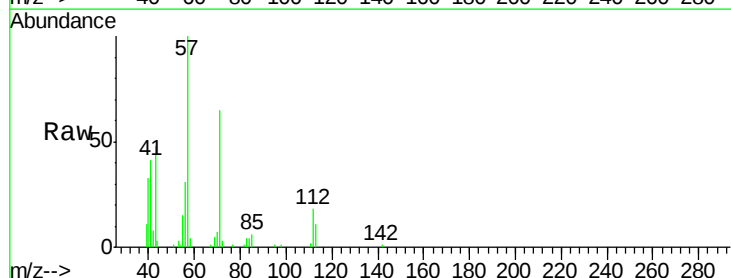
Tgt Ion: 83 Resp: 1698

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

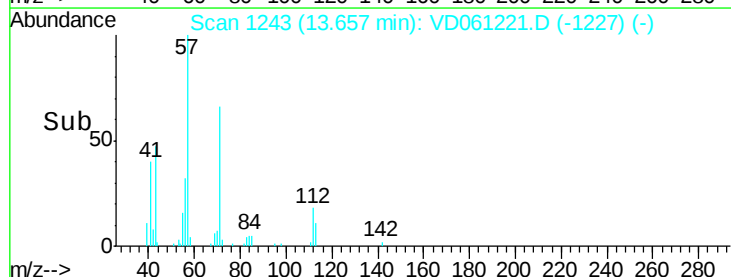
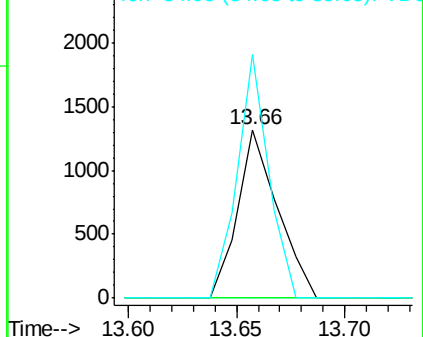
85 144.6 31.5 94.5#

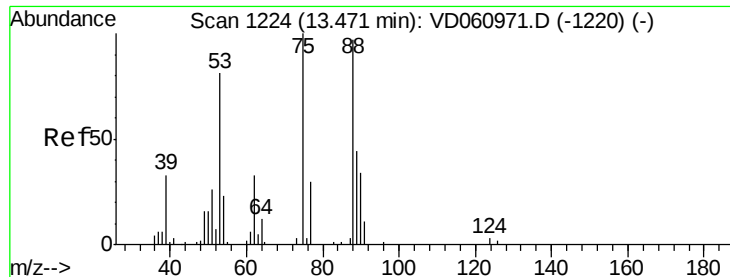


Abundance Ion 82.95 (82.65 to 83.65): VDC

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: 102.672 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

Instrument :

MSVOA_D

ClientSampleId :

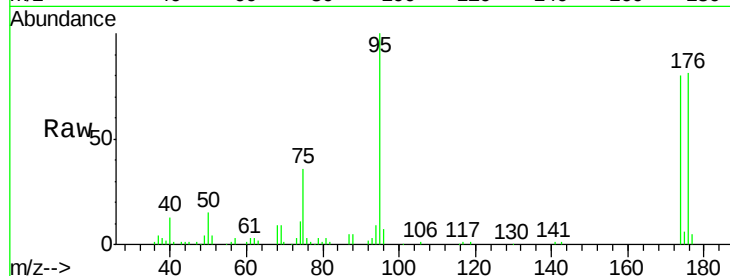
Tot Ion: 75 Resp: 45225

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

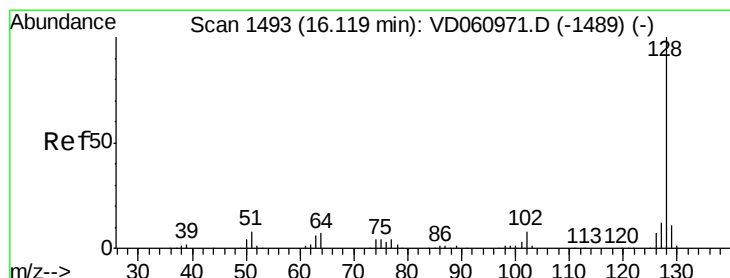
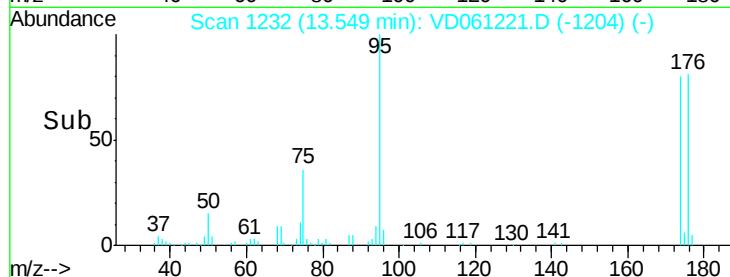
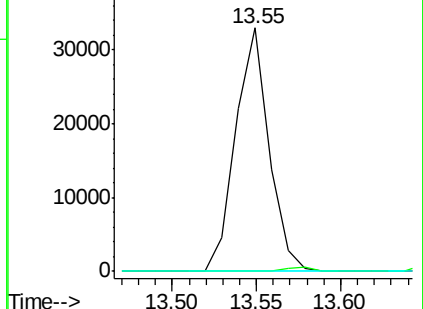
89 0.0 34.8 52.2#



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: 6.700 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD061221.D

Acq: 20 Mar 2019 21:16

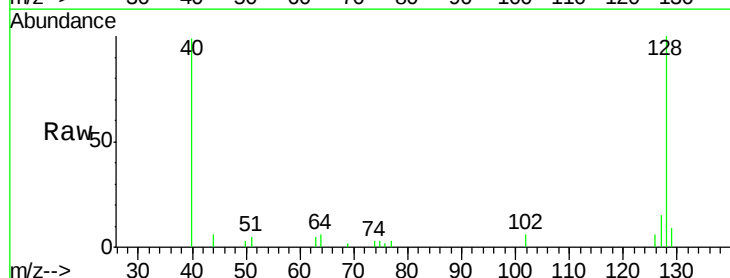
Tgt Ion: 128 Resp: 13432

Ion Ratio Lower Upper

128 100

127 15.3 9.8 14.8#

129 8.7 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

