

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040419\
 Data File : VD061590.D
 Acq On : 4 Apr 2019 20:27
 Operator : VA/AP
 Sample : K2209-03RE
 Misc : 5.53g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 05 01:40:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	481302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	780314	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.34	117	637002	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	260639	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.42	65	172358	41.92	ug/l	0.00
Spiked Amount			Recovery	=	83.84%	
35) Dibromofluoromethane	6.89	113	263239	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	
50) Toluene-d8	10.39	98	561124	39.23	ug/l	0.00
Spiked Amount			Recovery	=	78.46%	
62) 4-Bromofluorobenzene	13.54	95	222797	40.62	ug/l	0.00
Spiked Amount			Recovery	=	81.24%	

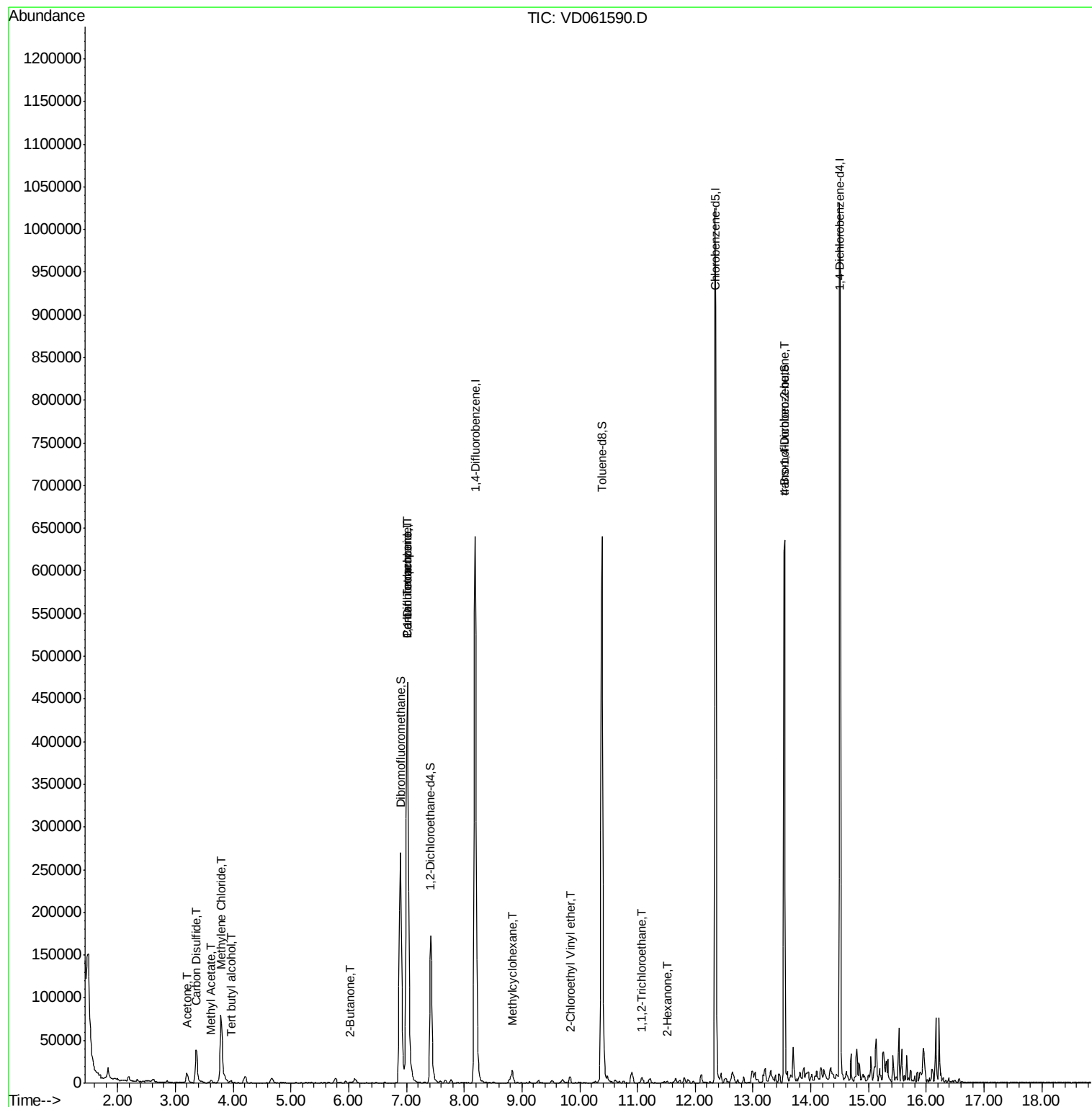
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.97	59	1345	5.253	ug/l #	76
16) Acetone	3.20	43	24021	22.727	ug/l #	84
17) Carbon Disulfide	3.36	76	79145	4.715	ug/l	99
18) Methyl Acetate	3.61	43	4686	2.109	ug/l	96
20) Methylene Chloride	3.79	84	58197	8.225	ug/l	91
25) 2-Butanone	6.03	43	2023	1.522	ug/l #	54
36) 1,1-Dichloropropene	7.02	75	36959	5.427	ug/l #	46
38) Carbon Tetrachloride	7.02	117	47671	6.092	ug/l #	13
39) Methylcyclohexane	8.84	83	8268	1.166	ug/l	96
55) 1,1,2-Trichloroethane	11.08	97	3727	1.022	ug/l #	15
58) 2-Chloroethyl Vinyl ether	9.82	63	4166	2.184	ug/l	93
59) 2-Hexanone	11.51	43	1875	1.004	ug/l	86
81) trans-1,4-Dichloro-2-buten	13.54	75	82867	72.187	ug/l #	18

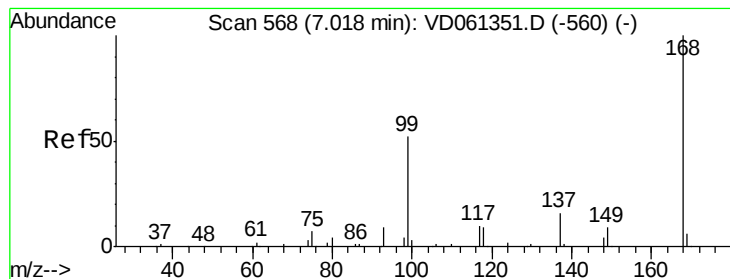
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.00 min

Lab File: VD061590.D

Acq: 4 Apr 2019 20:27

Instrument :

MSVOA_D

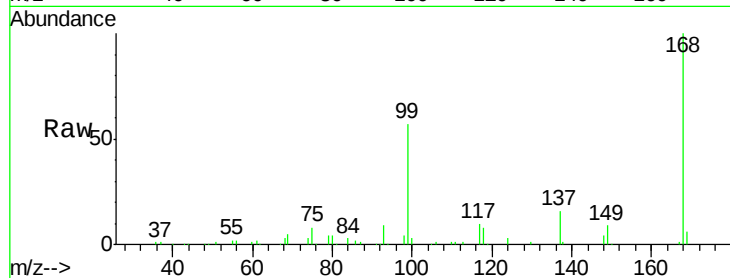
ClientSampleId :

Tot Ion:168 Resp: 481302

Ion Ratio Lower Upper

168 100

99 56.9 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

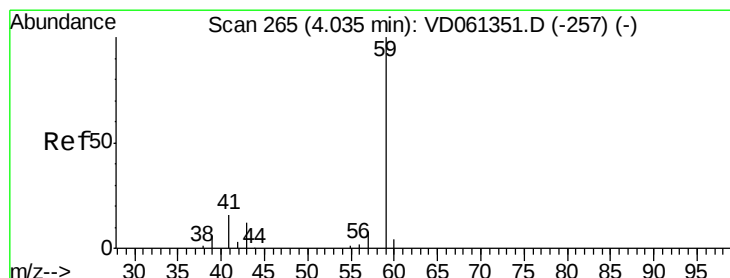
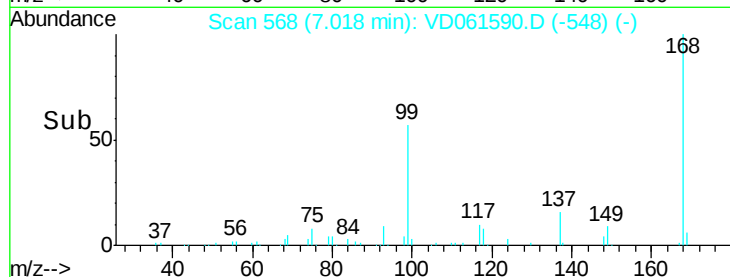
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.253 ug/l

RT: 3.97 min Scan# 258

Delta R.T. -0.07 min

Lab File: VD061590.D

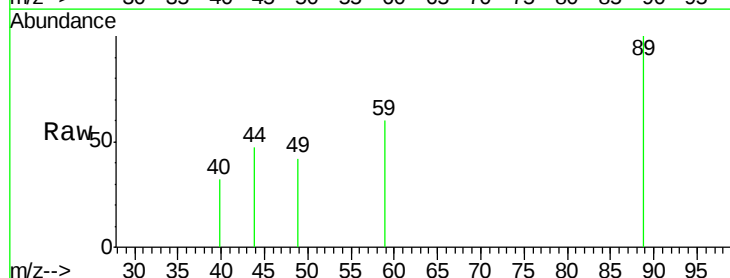
Acq: 4 Apr 2019 20:27

Tgt Ion: 59 Resp: 1345

Ion Ratio Lower Upper

59 100

57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.97

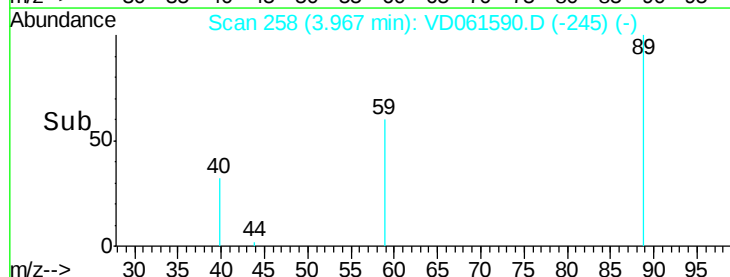
600

400

200

0

Time-->





#16

Acetone

Concen: 22.727 ug/l

RT: 3.20 min Scan# 180

Delta R.T. 0.00 min

Lab File: VD061590.D

Acq: 4 Apr 2019 20:27

Instrument :

MSVOA_D

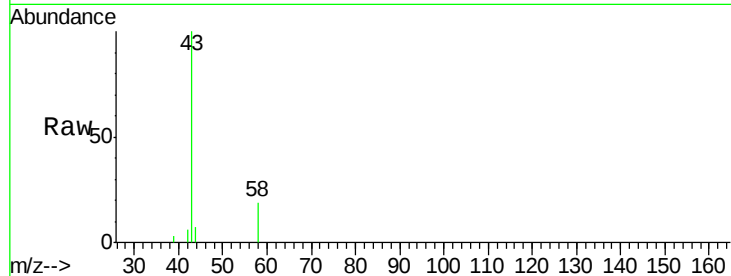
ClientSampleId :

Tot Ion: 43 Resp: 24021

Ion Ratio Lower Upper

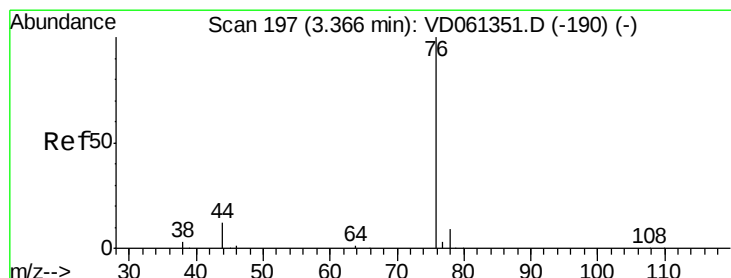
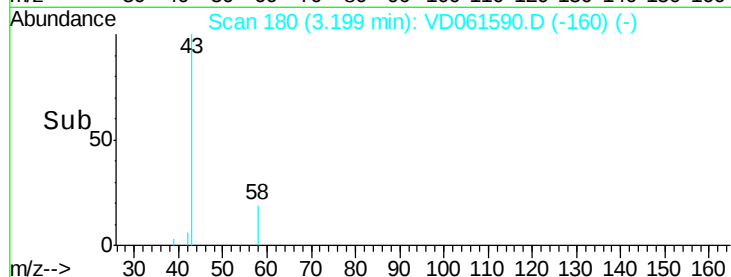
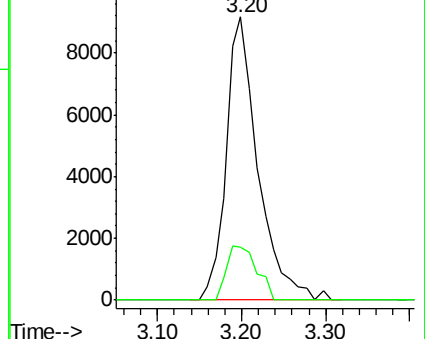
43 100

58 18.8 21.5 32.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 4.715 ug/l

RT: 3.36 min Scan# 196

Delta R.T. -0.01 min

Lab File: VD061590.D

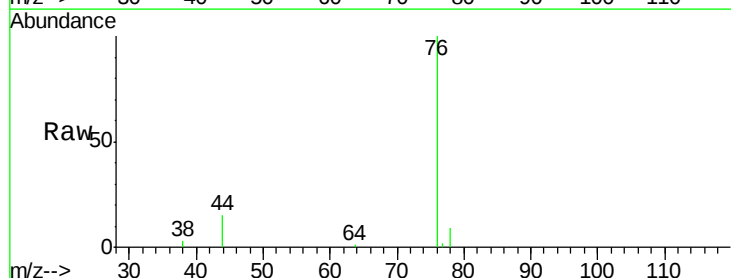
Acq: 4 Apr 2019 20:27

Tgt Ion: 76 Resp: 79145

Ion Ratio Lower Upper

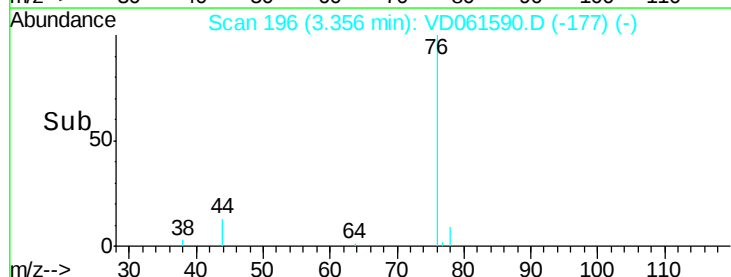
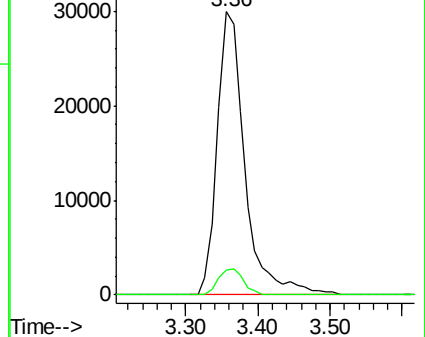
76 100

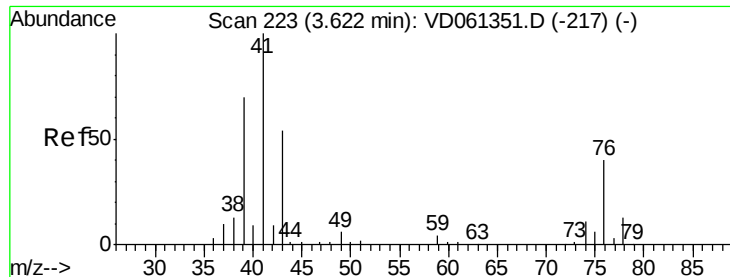
78 8.7 7.1 10.7



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

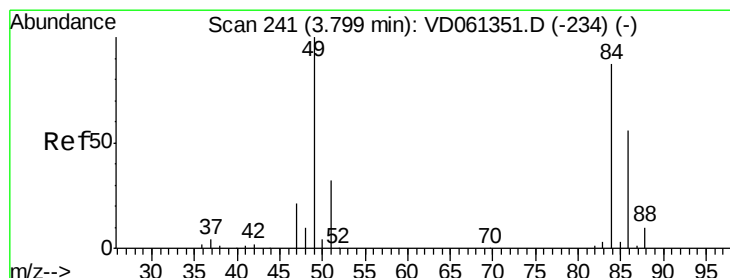
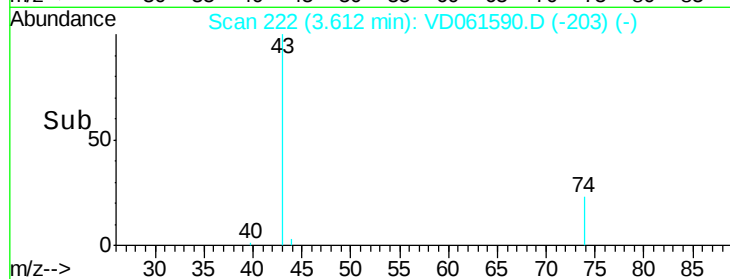
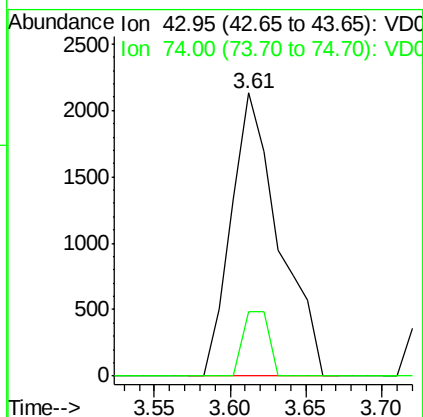
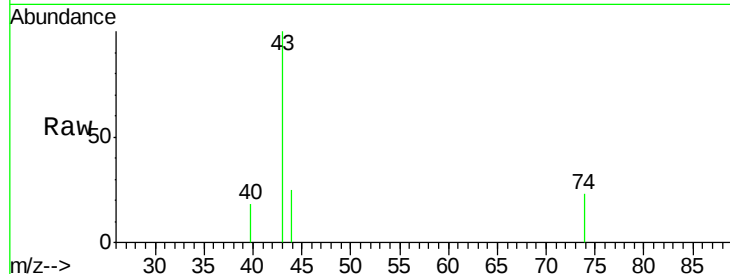




#18
Methyl Acetate
Concen: 2.109 ug/l
RT: 3.61 min Scan# 222
Delta R.T. -0.01 min
Lab File: VD061590.D
Acq: 4 Apr 2019 20:27

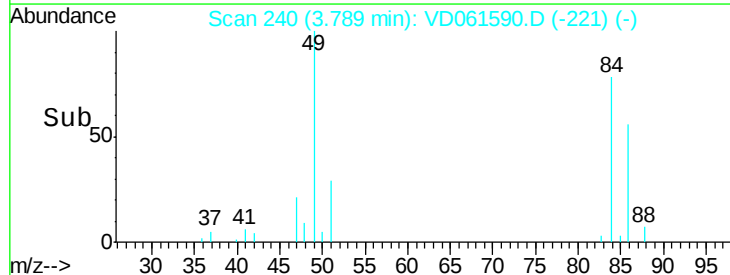
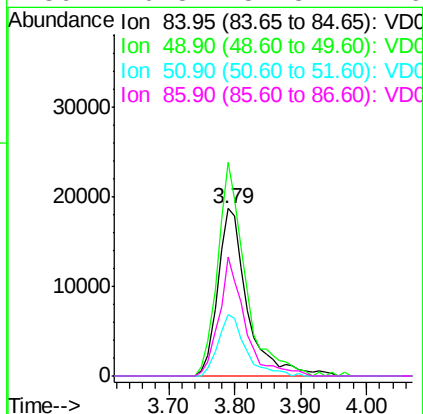
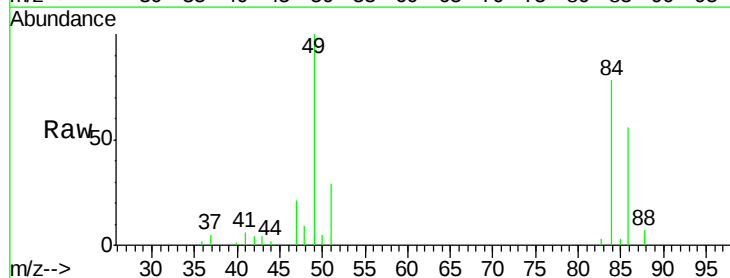
Instrument :
MSVOA_D
ClientSampleId :

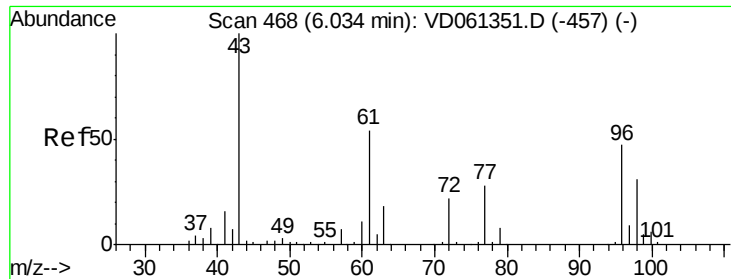
Tot Ion: 43 Resp: 4686
Ion Ratio Lower Upper
43 100
74 22.9 16.7 25.1



#20
Methylene Chloride
Concen: 8.225 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.01 min
Lab File: VD061590.D
Acq: 4 Apr 2019 20:27

Tgt Ion: 84 Resp: 58197
Ion Ratio Lower Upper
84 100
49 127.5 91.8 137.8
51 37.0 29.8 44.8
86 70.8 51.8 77.6





#25

2-Butanone

Concen: 1.522 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.00 min

Lab File: VD061590.D

Acq: 4 Apr 2019 20:27

Instrument :

MSVOA_D

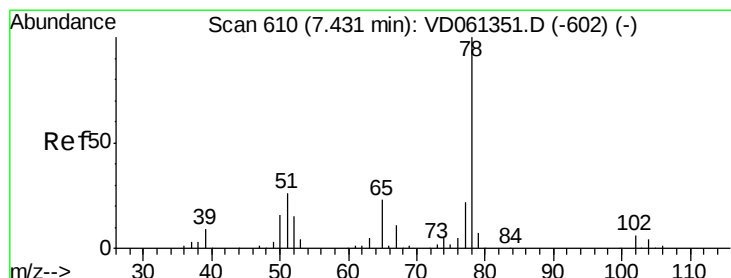
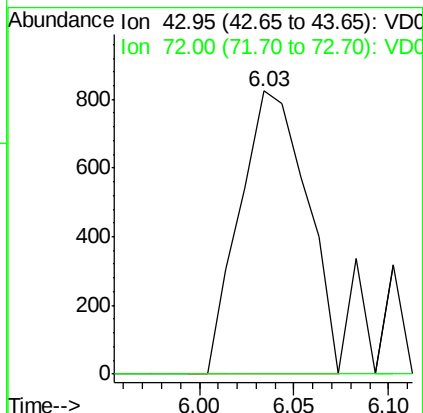
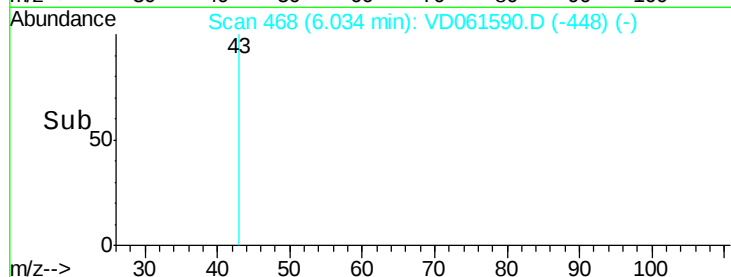
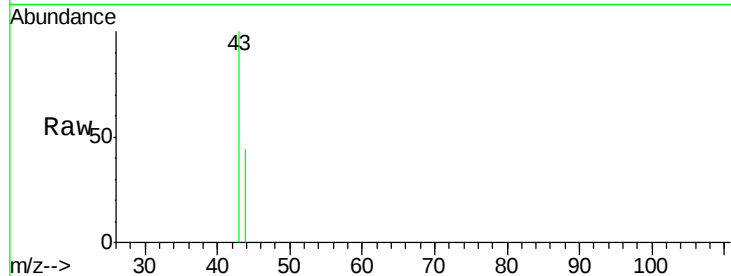
ClientSampled :

Tot Ion: 43 Resp: 2023

Ion Ratio Lower Upper

43 100

72 0.0 17.2 25.8#



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.42 min Scan# 609

Delta R.T. -0.01 min

Lab File: VD061590.D

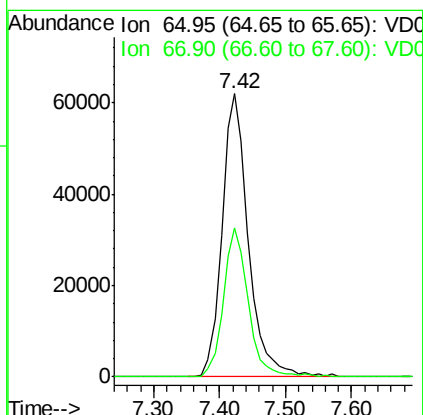
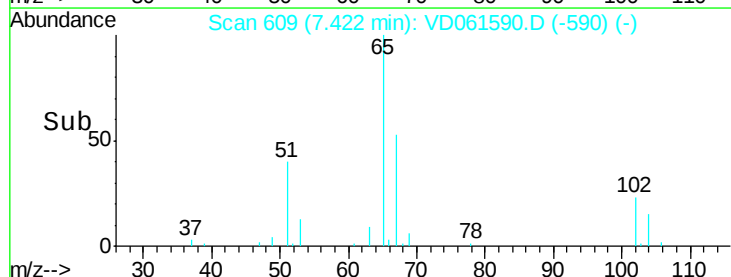
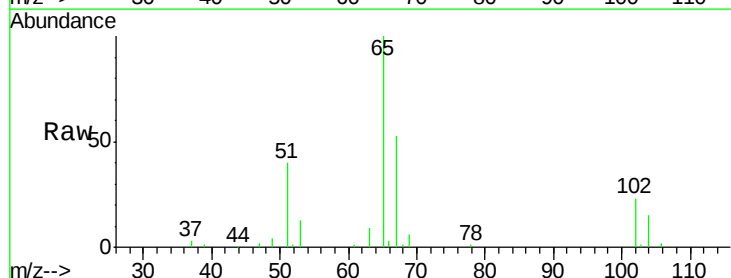
Acq: 4 Apr 2019 20:27

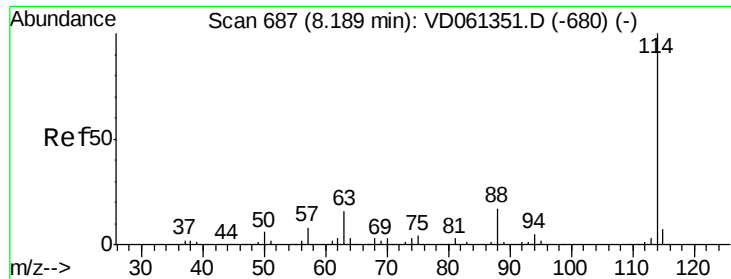
Tgt Ion: 65 Resp: 172358

Ion Ratio Lower Upper

65 100

67 52.9 0.0 99.8

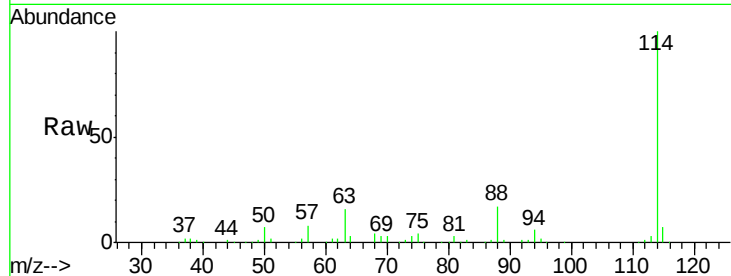




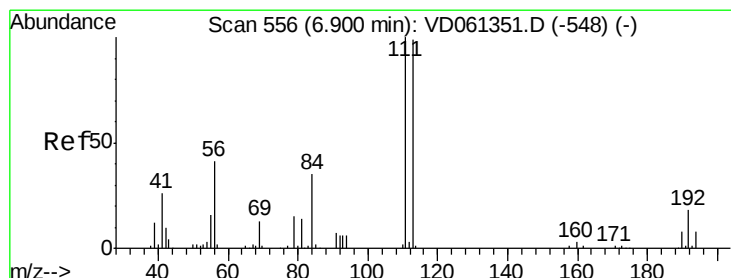
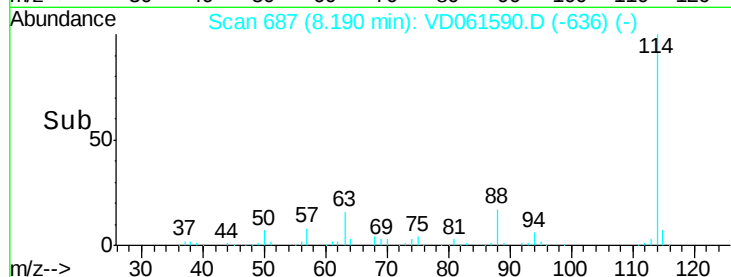
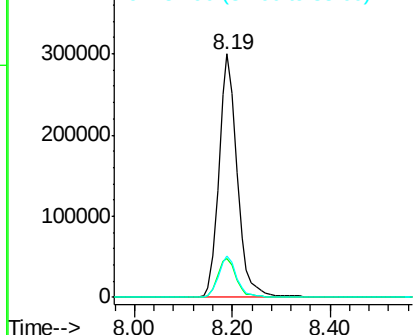
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 687
 Delta R.T. 0.00 min
 Lab File: VD061590.D
 Acq: 4 Apr 2019 20:27

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 780314
 Ion Ratio Lower Upper
 114 100
 63 15.8 0.0 31.6
 88 17.0 0.0 33.4

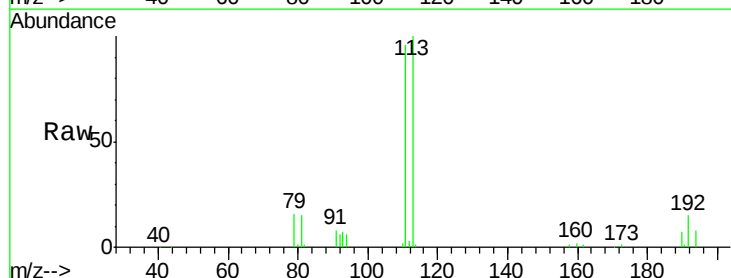


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

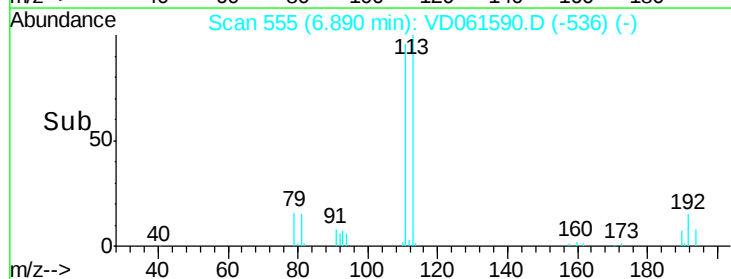
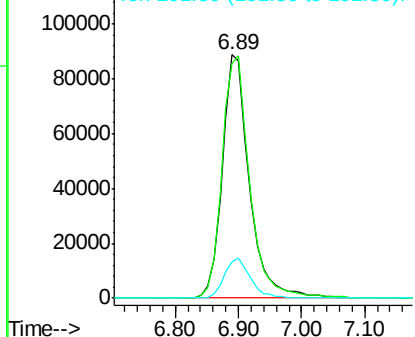


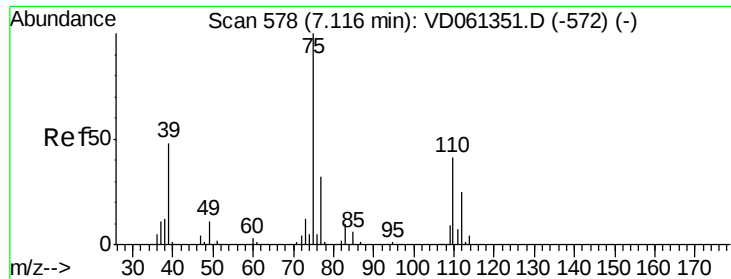
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.89 min Scan# 555
 Delta R.T. -0.01 min
 Lab File: VD061590.D
 Acq: 4 Apr 2019 20:27

Tgt Ion:113 Resp: 263239
 Ion Ratio Lower Upper
 113 100
 111 96.2 81.0 121.6
 192 15.1 14.4 21.6



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: 5.427 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.10 min

Lab File: VD061590.D

Acq: 4 Apr 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

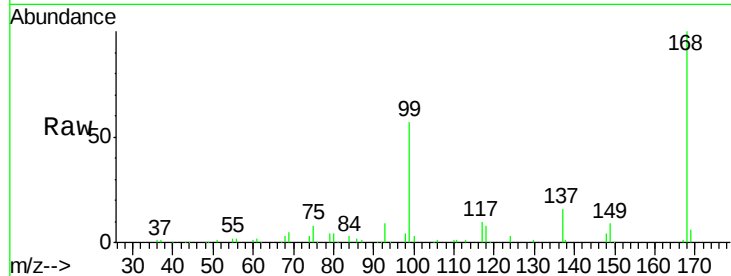
Tot Ion: 75 Resp: 36959

Ion Ratio Lower Upper

75 100

110 8.0 20.4 61.3#

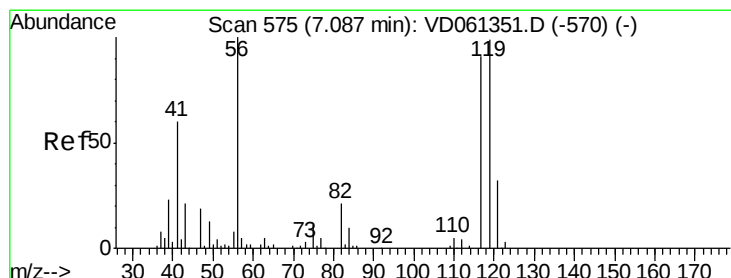
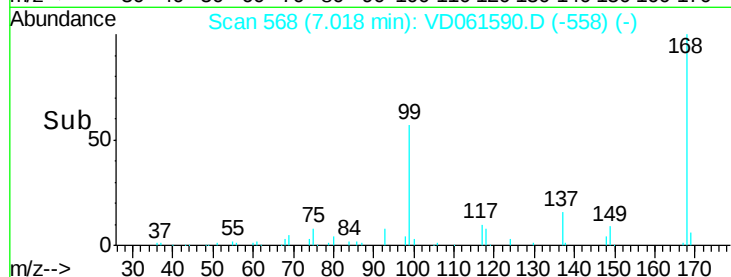
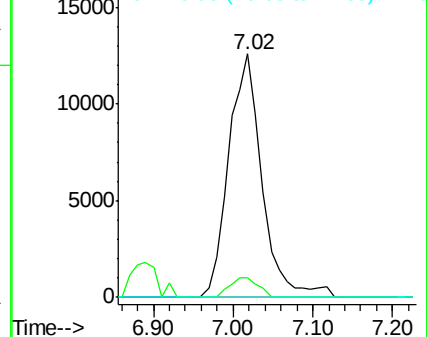
77 0.0 24.9 37.3#



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: 6.092 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.07 min

Lab File: VD061590.D

Acq: 4 Apr 2019 20:27

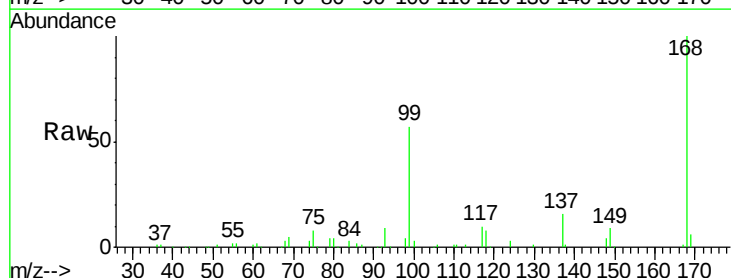
Tgt Ion: 117 Resp: 47671

Ion Ratio Lower Upper

117 100

119 3.8 80.1 120.1#

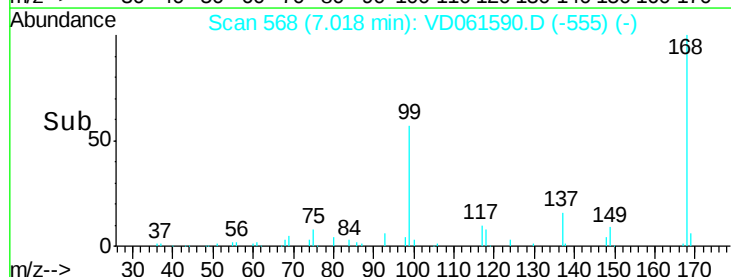
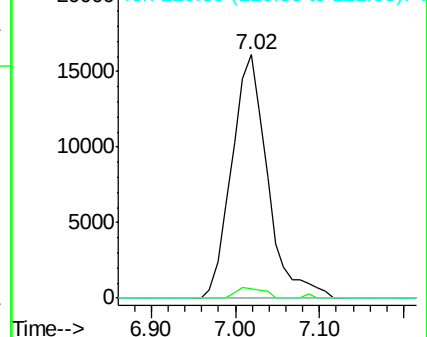
121 0.0 25.6 38.4#

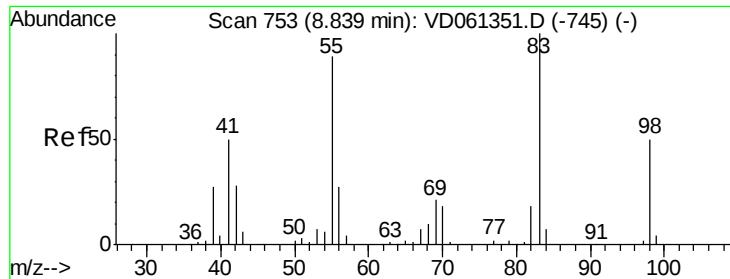


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

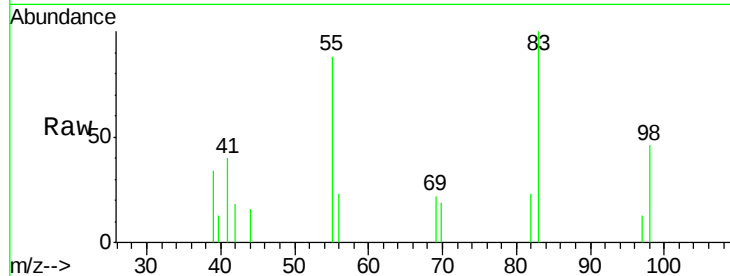




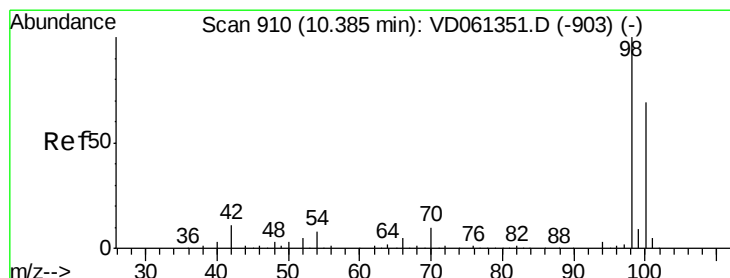
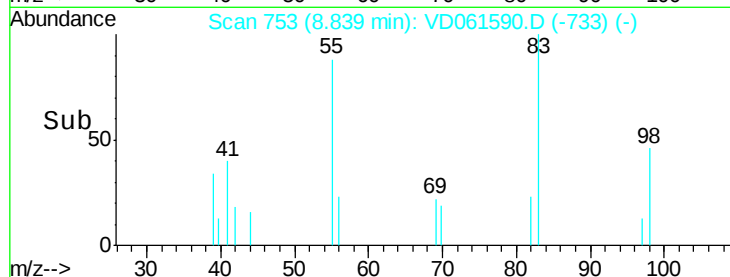
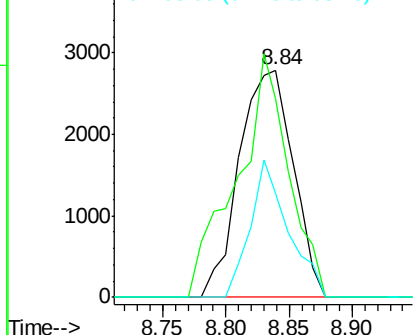
#39
Methvlcvclohexane
Concen: 1.166 ug/l
RT: 8.84 min Scan# 753
Delta R.T. 0.00 min
Lab File: VD061590.D
Acq: 4 Apr 2019 20:27

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 83 Resp: 8268
Ion Ratio Lower Upper
83 100
55 87.6 71.5 107.3
98 45.8 40.3 60.5

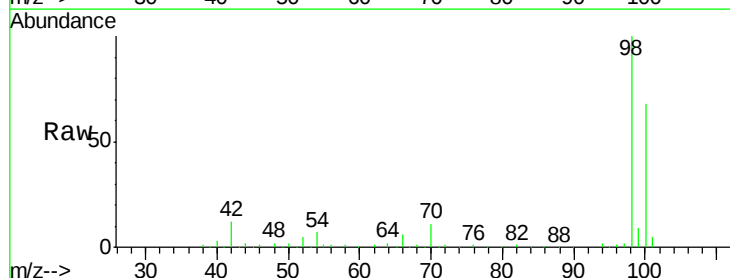


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

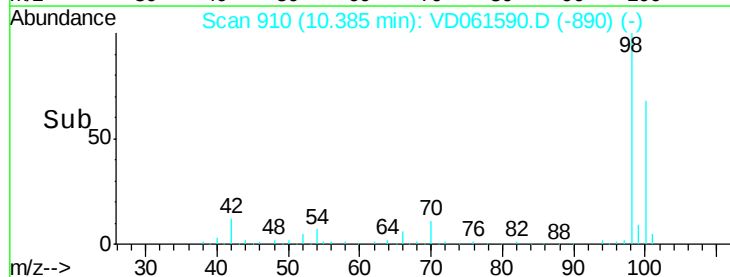
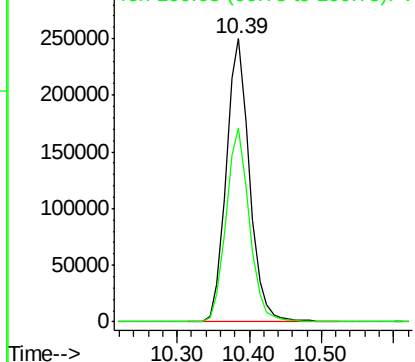


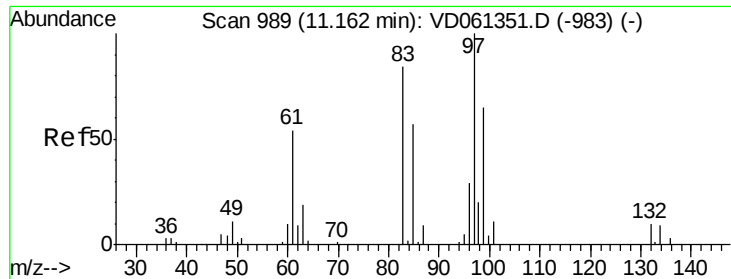
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.39 min Scan# 910
Delta R.T. 0.00 min
Lab File: VD061590.D
Acq: 4 Apr 2019 20:27

Tgt Ion: 98 Resp: 561124
Ion Ratio Lower Upper
98 100
100 68.5 56.2 84.2



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





#55

1,1,2-Trichloroethane

Concen: 1.022 ug/l

RT: 11.08 min Scan# 981

Delta R.T. -0.08 min

Lab File: VD061590.D

Acq: 4 Apr 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 3727

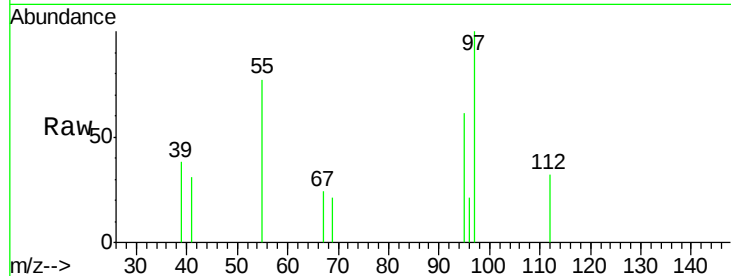
Ion Ratio Lower Upper

97 100

83 0.0 67.0 100.6#

85 0.0 45.4 68.2#

99 0.0 51.9 77.9#

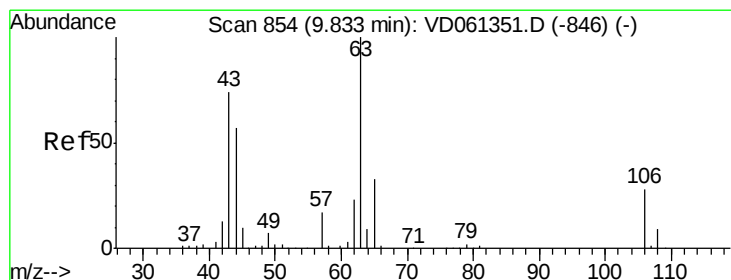
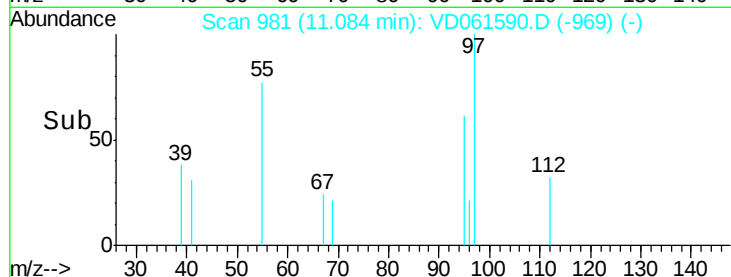
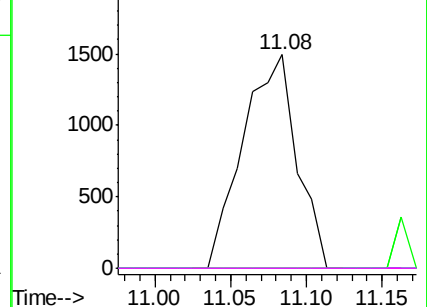


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 2.184 ug/l

RT: 9.82 min Scan# 853

Delta R.T. -0.01 min

Lab File: VD061590.D

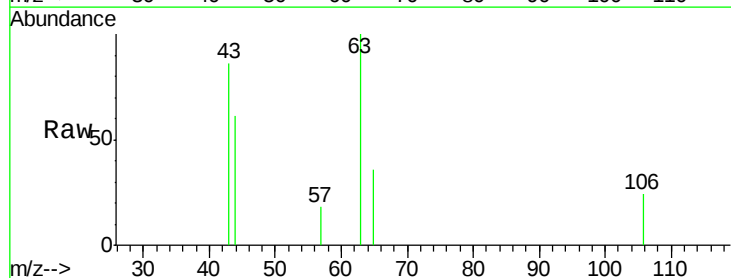
Acq: 4 Apr 2019 20:27

Tgt Ion: 63 Resp: 4166

Ion Ratio Lower Upper

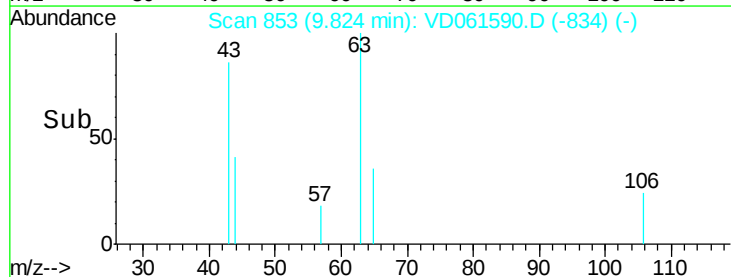
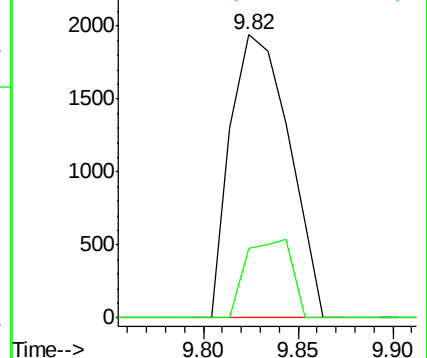
63 100

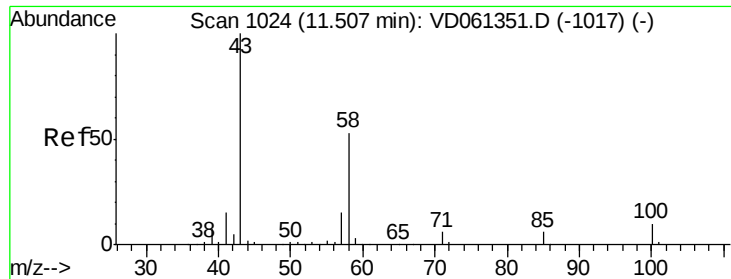
106 24.4 22.4 33.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

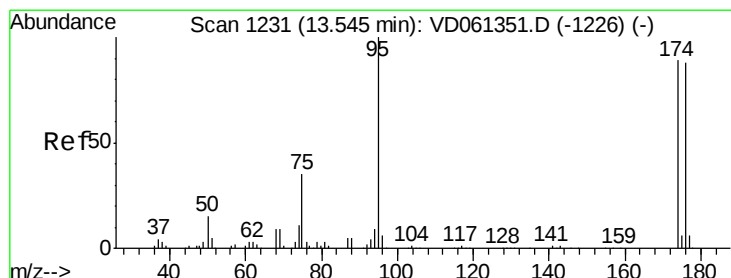
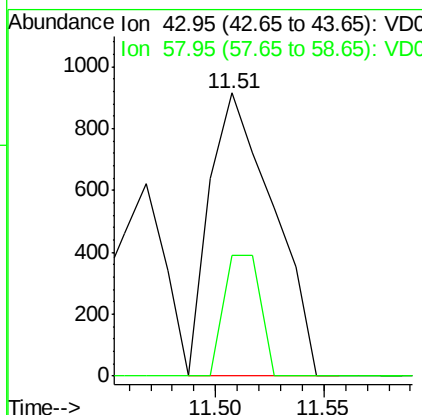
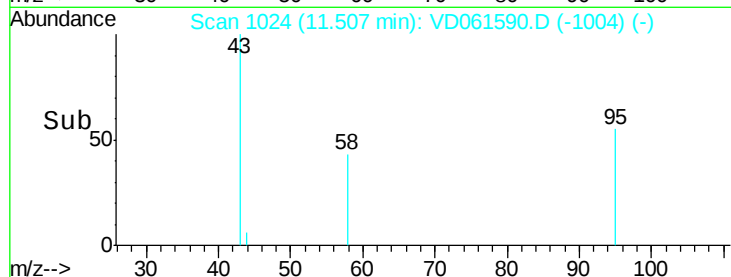
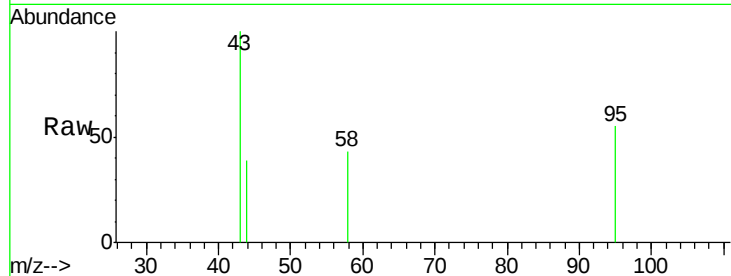




#59
2-Hexanone
Concen: 1.004 ug/l
RT: 11.51 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VD061590.D
Acq: 4 Apr 2019 20:27

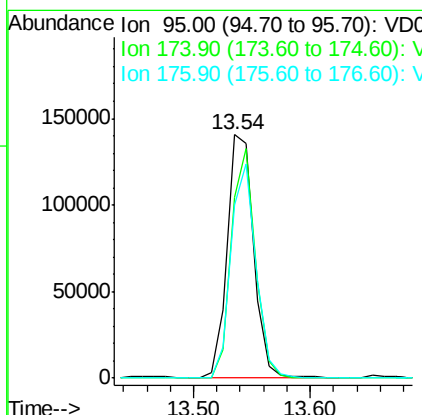
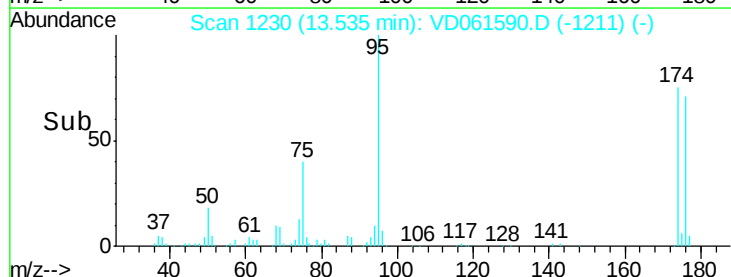
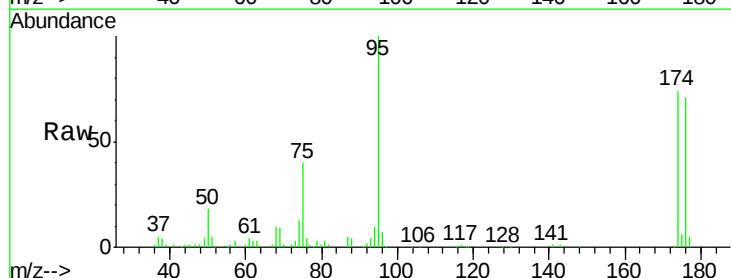
Instrument :
MSVOA_D
ClientSampled :

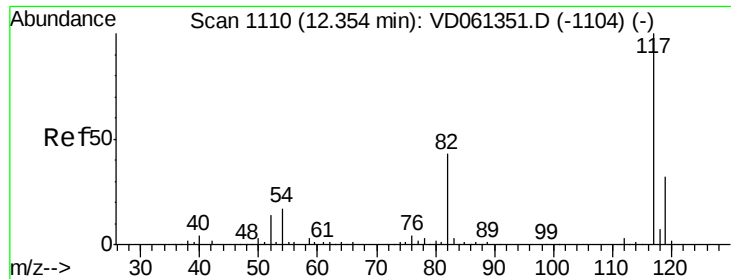
Tot Ion: 43 Resp: 1875
Ion Ratio Lower Upper
43 100
58 42.8 26.3 78.9



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 13.54 min Scan# 1230
Delta R.T. -0.01 min
Lab File: VD061590.D
Acq: 4 Apr 2019 20:27

Tgt Ion: 95 Resp: 222797
Ion Ratio Lower Upper
95 100
174 74.4 0.0 178.0
176 71.2 0.0 175.0

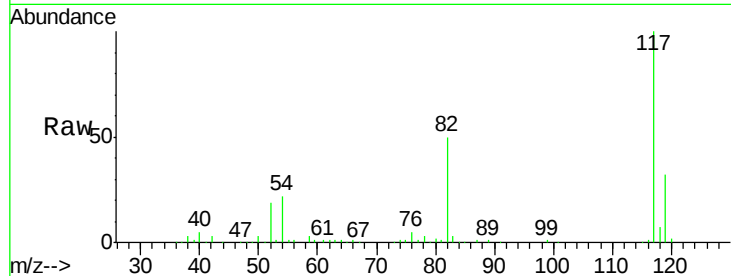




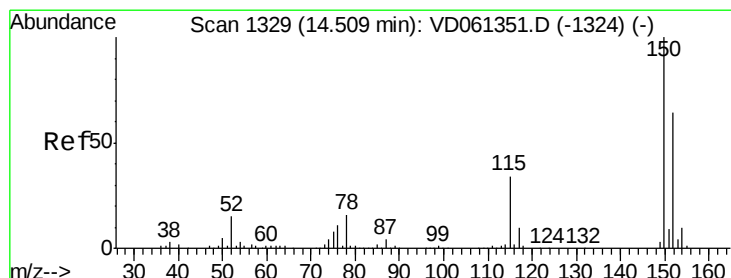
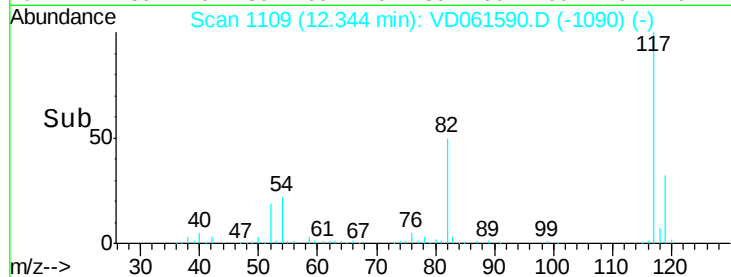
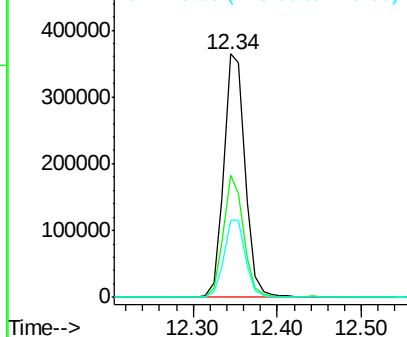
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.34 min Scan# 1109
Delta R.T. -0.01 min
Lab File: VD061590.D
Acq: 4 Apr 2019 20:27

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 637002
Ion Ratio Lower Upper
117 100
82 49.9 34.4 51.6
119 31.7 25.8 38.6

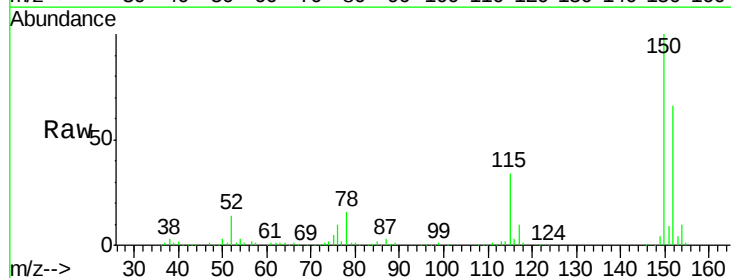


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

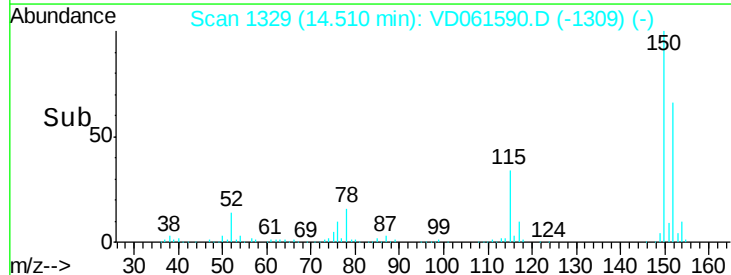
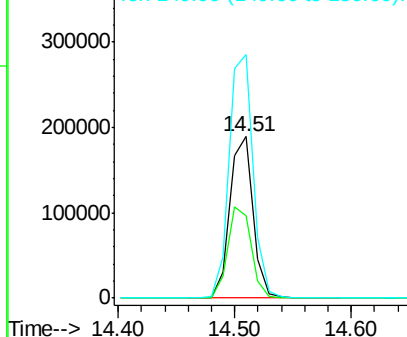


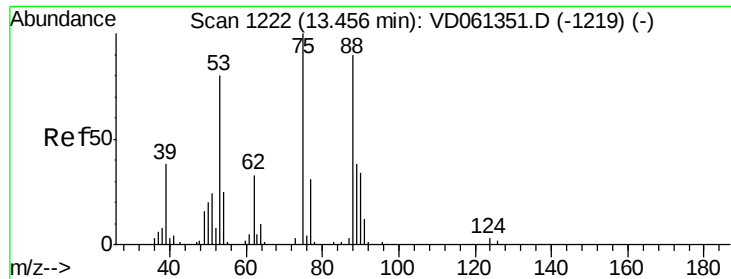
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. 0.00 min
Lab File: VD061590.D
Acq: 4 Apr 2019 20:27

Tgt Ion:152 Resp: 260639
Ion Ratio Lower Upper
152 100
115 51.2 26.9 80.6
150 151.0 0.0 318.0



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





#81

trans-1,4-Dichloro-2-butene

Concen: 72.187 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. 0.08 min

Lab File: VD061590.D

Acq: 4 Apr 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

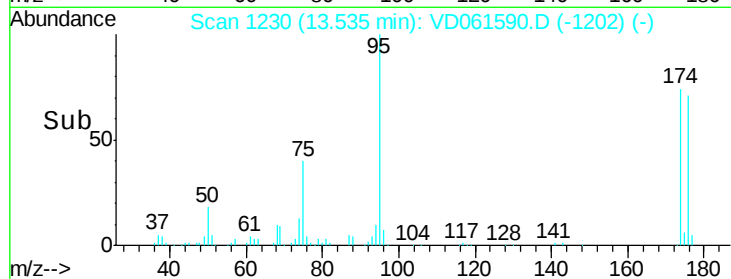
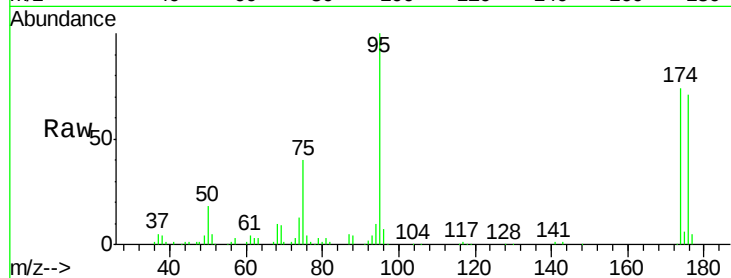
Tot Ion: 75 Resp: 82867

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



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

