

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040919\
 Data File : VD061673.D
 Acq On : 9 Apr 2019 14:28
 Operator : VA/AP
 Sample : K2240-07
 Misc : 5.10g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 10 00:51:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	14017	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.25	114	23131	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.39	117	21813	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.54	152	11415	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	8384	78.91	ug/l	0.03
Spiked Amount			Recovery	=	157.82%	
35) Dibromofluoromethane	6.95	113	9133	56.99	ug/l	0.03
Spiked Amount			Recovery	=	113.98%	
50) Toluene-d8	10.44	98	20791	51.64	ug/l	0.04
Spiked Amount			Recovery	=	103.28%	
62) 4-Bromofluorobenzene	13.57	95	10840	92.02	ug/l	0.02
Spiked Amount			Recovery	=	184.04%	

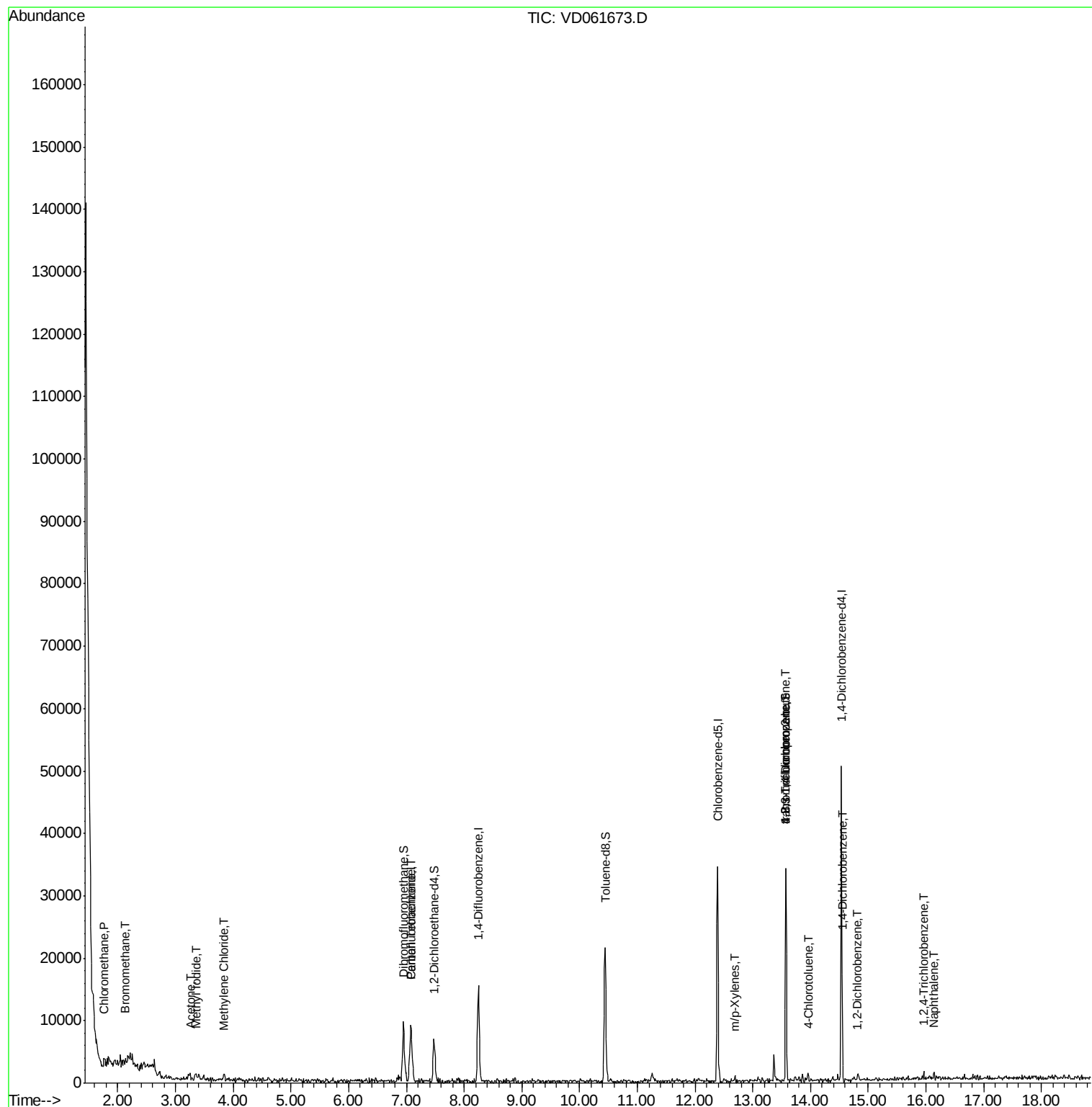
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.76	50	814	6.661	ug/l #	43
5) Bromomethane	2.13	94	205	7.756	ug/l #	12
10) Methyl Iodide	3.36	142	1515	9.210	ug/l #	38
16) Acetone	3.24	43	1702	53.588	ug/l #	51
20) Methylene Chloride	3.83	84	1088	6.037	ug/l #	8
38) Carbon Tetrachloride	7.06	117	701	2.955	ug/l #	11
68) m/p-Xylenes	12.69	106	385	1.516	ug/l #	66
76) 1,2,3-Trichloropropane	13.57	75	4488	28.899	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.57	75	4488	95.232	ug/l #	20
82) 4-Chlorotoluene	13.96	91	572	1.003	ug/l #	37
88) 1,4-Dichlorobenzene	14.56	146	755	1.969	ug/l #	53
91) 1,2-Dichlorobenzene	14.82	146	558	1.782	ug/l #	24
93) 1,2,4-Trichlorobenzene	15.96	180	517	3.241	ug/l #	76
95) Naphthalene	16.14	128	1049	4.155	ug/l #	70

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

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Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.04 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

Instrument :

MSVOA_D

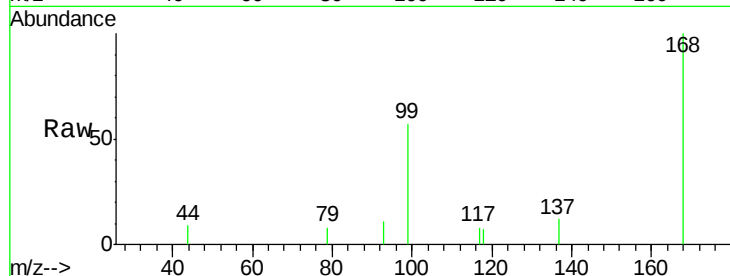
ClientSampleId :

Tot Ion:168 Resp: 14017

Ion Ratio Lower Upper

168 100

99 56.9 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

4000

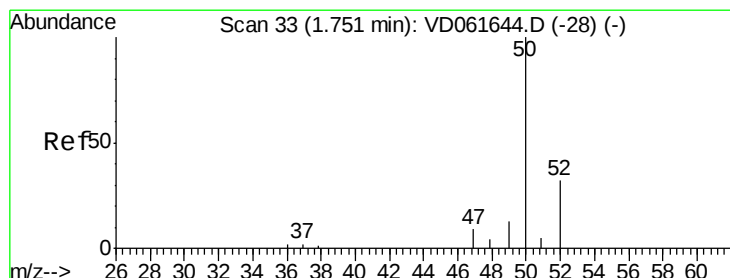
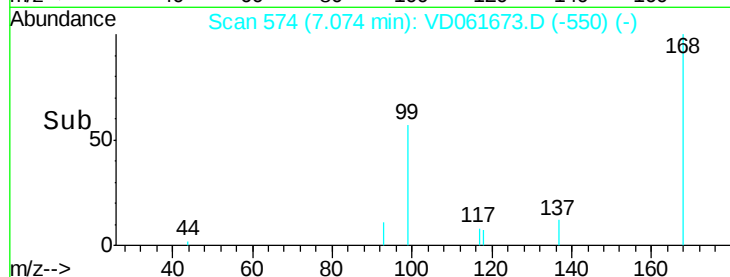
3000

2000

1000

0

Time-->



#3

Chloromethane

Concen: 6.661 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD061673.D

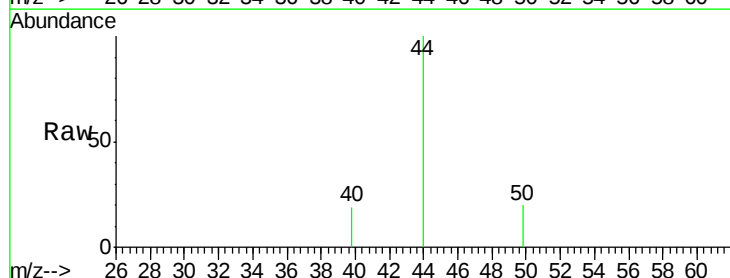
Acq: 9 Apr 2019 14:28

Tgt Ion: 50 Resp: 814

Ion Ratio Lower Upper

50 100

52 0.0 25.1 37.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.76

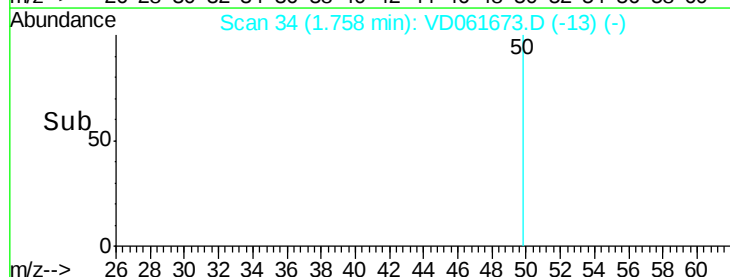
600

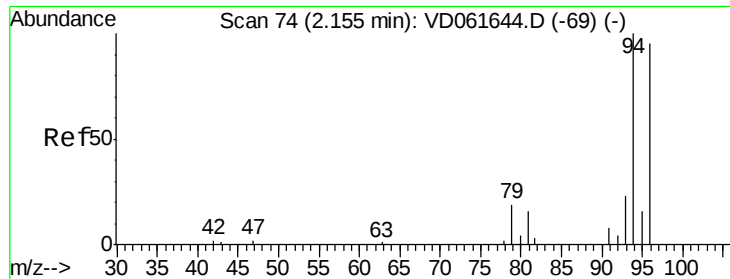
400

200

0

Time-->





#5

Bromomethane

Concen: 7.756 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

Instrument :

MSVOA_D

ClientSampleId :

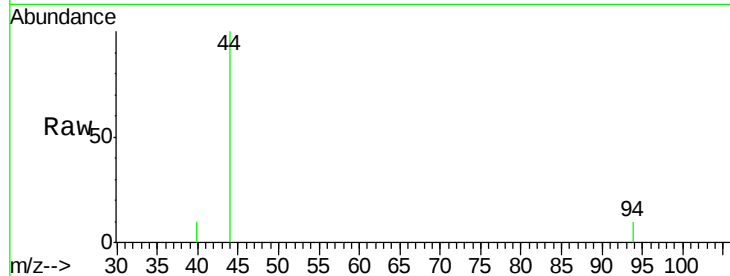
Tot Ion: 94 Resp: 205

Ion Ratio Lower Upper

94 100

96 0.0 75.8 113.8#

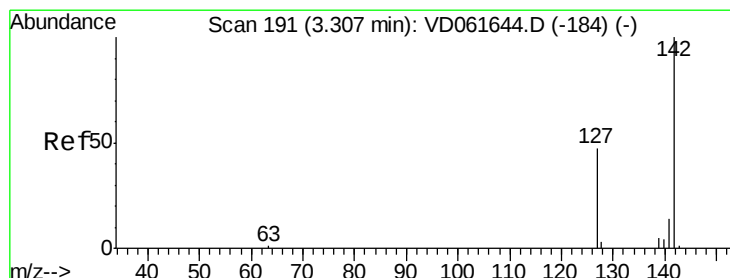
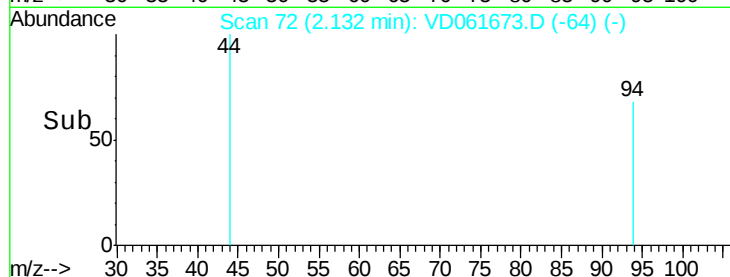
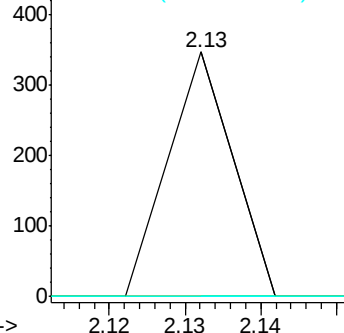
93 0.0 18.6 28.0#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#10

Methyl Iodide

Concen: 9.210 ug/l

RT: 3.36 min Scan# 197

Delta R.T. 0.06 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

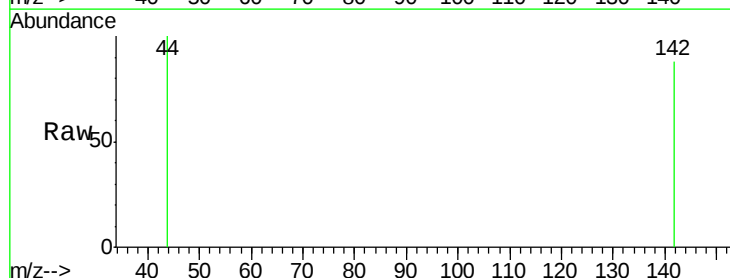
Tgt Ion: 142 Resp: 1515

Ion Ratio Lower Upper

142 100

127 0.0 37.2 55.8#

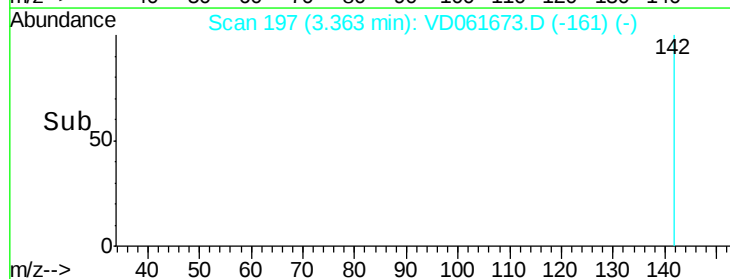
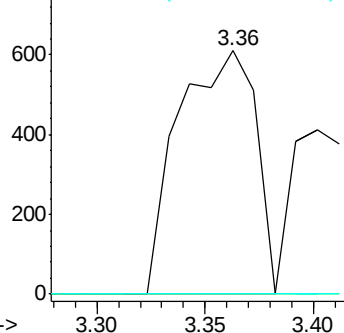
141 0.0 10.8 16.2#

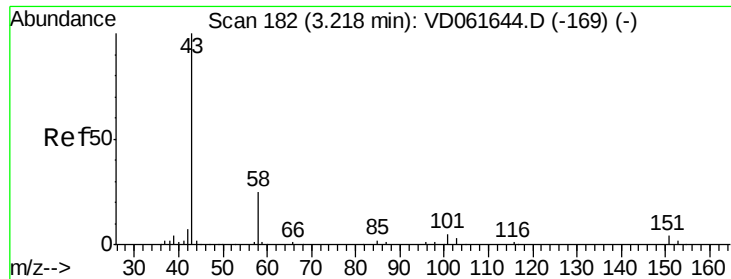


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#16

Acetone

Concen: 53.588 ug/l

RT: 3.24 min Scan# 185

Delta R.T. 0.03 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

Instrument :

MSVOA_D

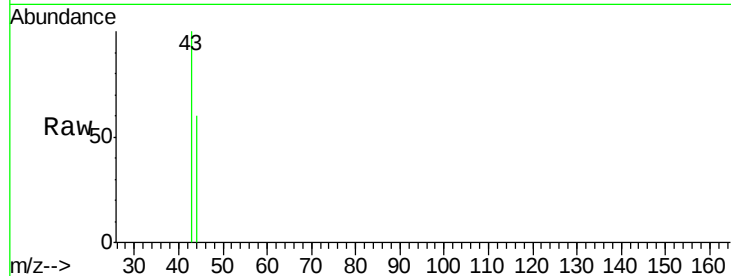
ClientSampleId :

Tot Ion: 43 Resp: 1702

Ion Ratio Lower Upper

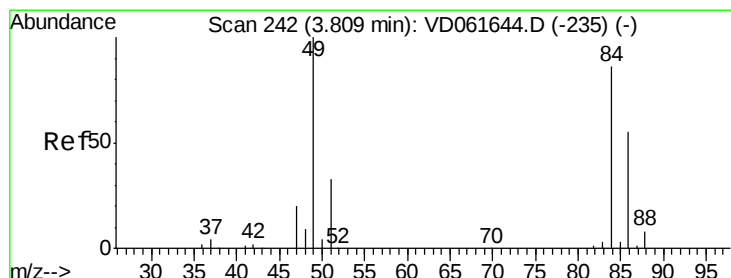
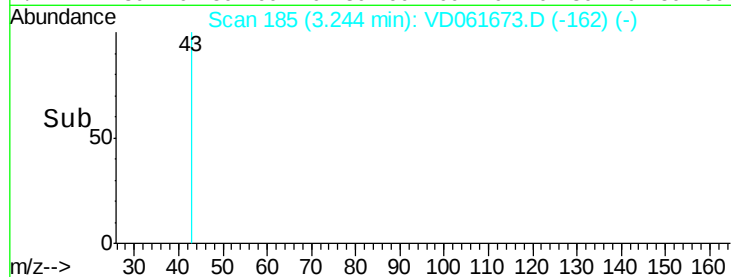
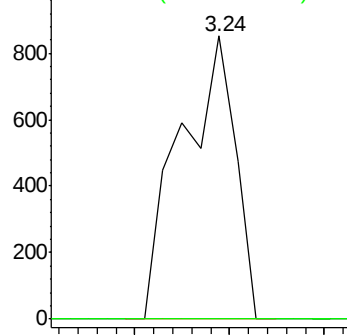
43 100

58 0.0 19.7 29.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 6.037 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

Tgt Ion: 84 Resp: 1088

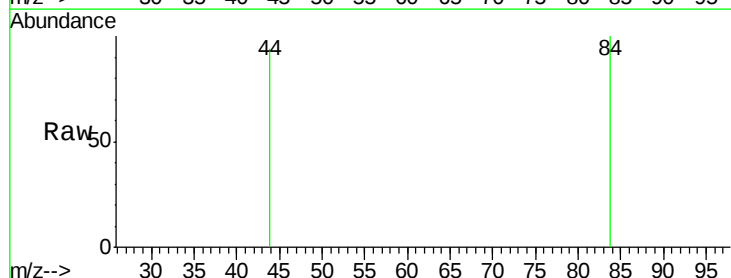
Ion Ratio Lower Upper

84 100

49 0.0 93.0 139.4#

51 0.0 30.4 45.6#

86 0.0 51.0 76.4#

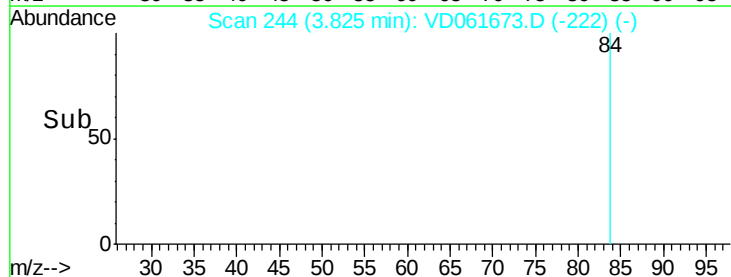
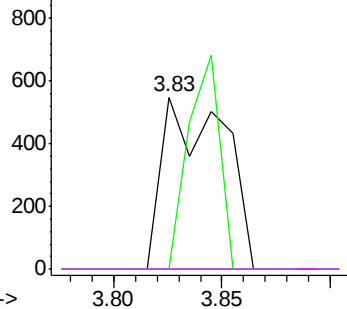


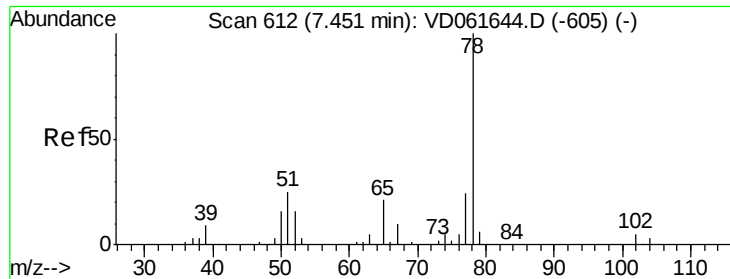
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

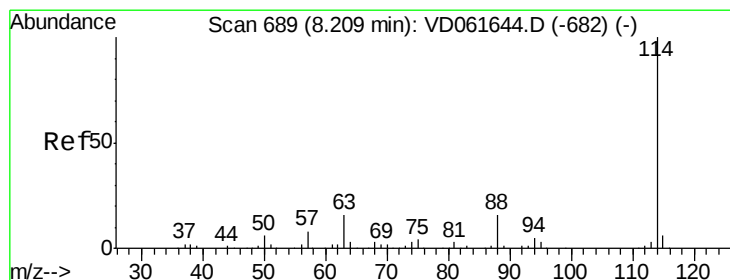
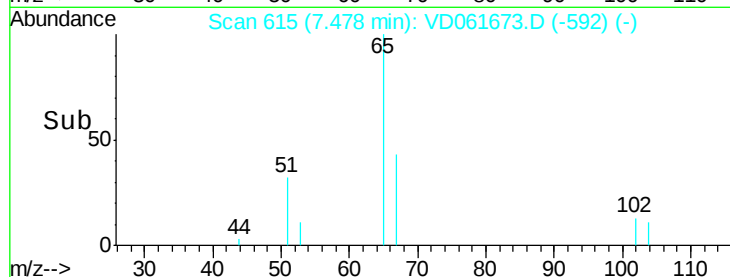
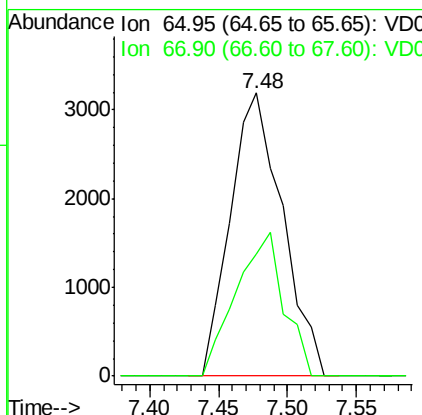
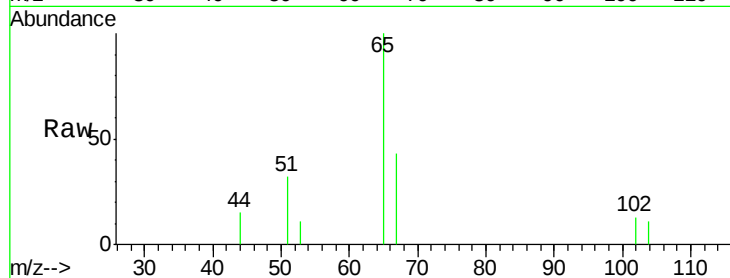




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.48 min Scan# 615
 Delta R.T. 0.03 min
 Lab File: VD061673.D
 Acq: 9 Apr 2019 14:28

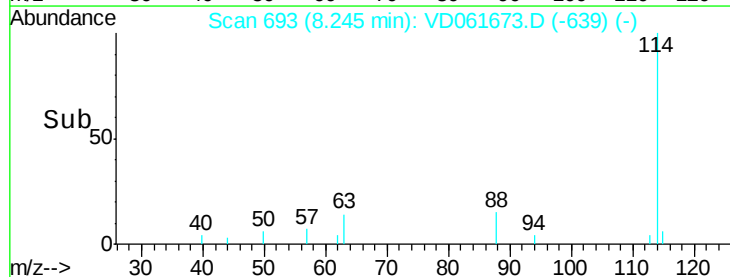
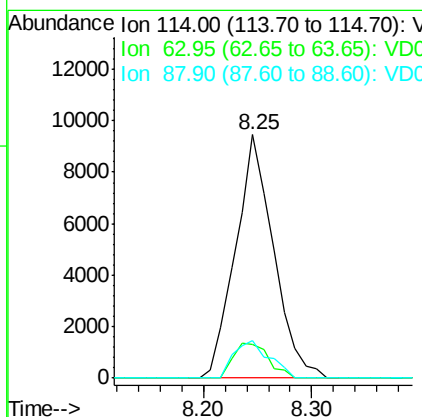
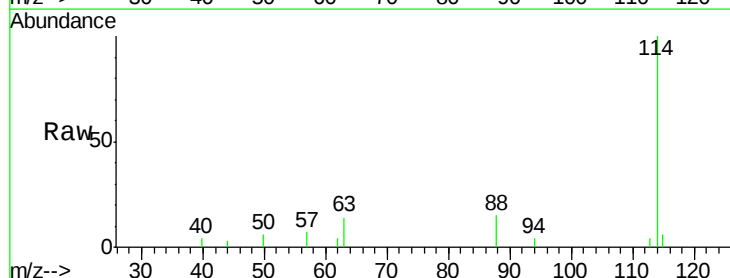
Instrument :
 MSVOA_D
 ClientSampleId :

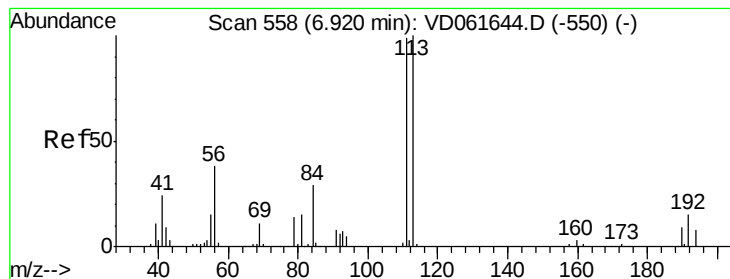
Tot Ion: 65 Resp: 8384
 Ion Ratio Lower Upper
 65 100
 67 43.1 0.0 99.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.25 min Scan# 693
 Delta R.T. 0.04 min
 Lab File: VD061673.D
 Acq: 9 Apr 2019 14:28

Tgt Ion: 114 Resp: 23131
 Ion Ratio Lower Upper
 114 100
 63 13.8 0.0 31.2
 88 15.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.03 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

Instrument :

MSVOA_D

ClientSampleId :

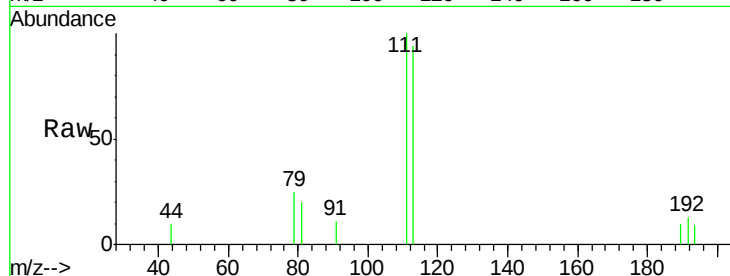
Tot Ion:113 Resp: 9133

Ion Ratio Lower Upper

113 100

111 105.9 79.3 118.9

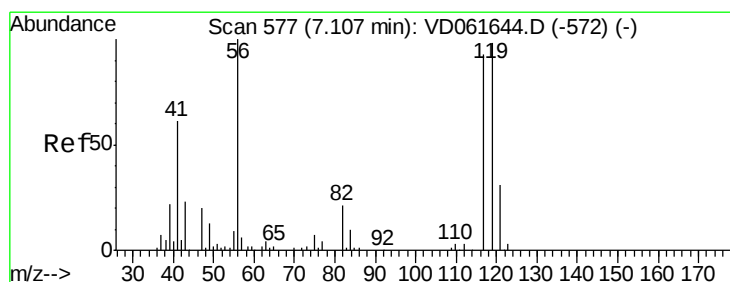
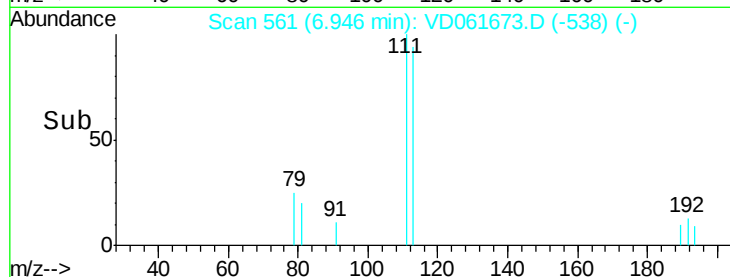
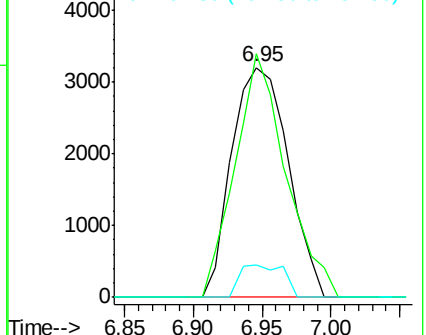
192 14.2 12.3 18.5



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



#38

Carbon Tetrachloride

Concen: 2.955 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.04 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

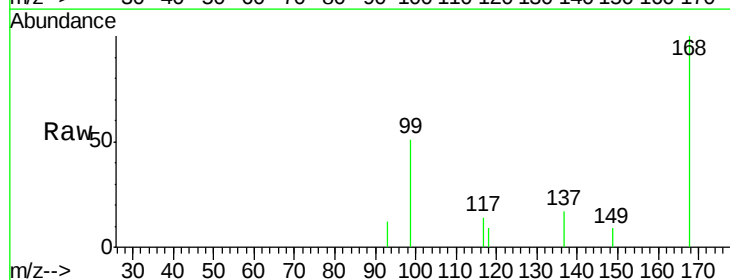
Tgt Ion:117 Resp: 701

Ion Ratio Lower Upper

117 100

119 0.0 77.9 116.9#

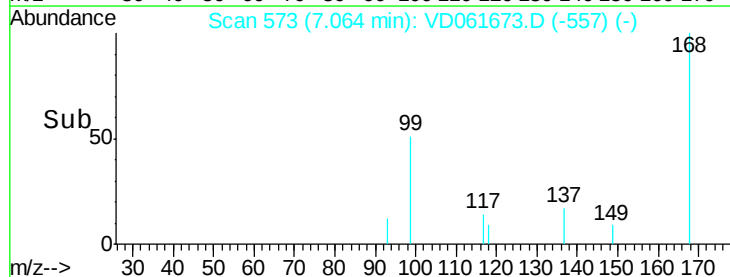
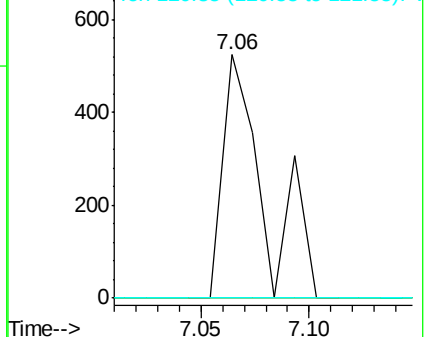
121 0.0 24.7 37.1#

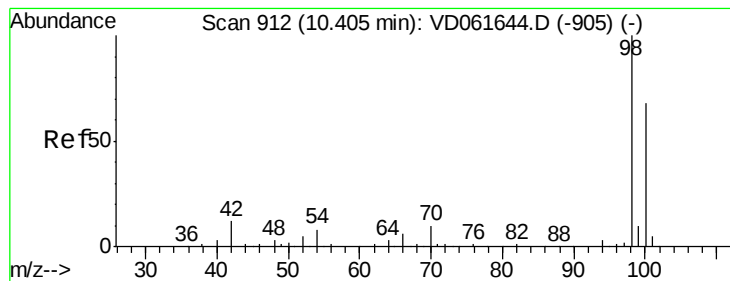


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.44 min Scan# 916

Delta R.T. 0.04 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

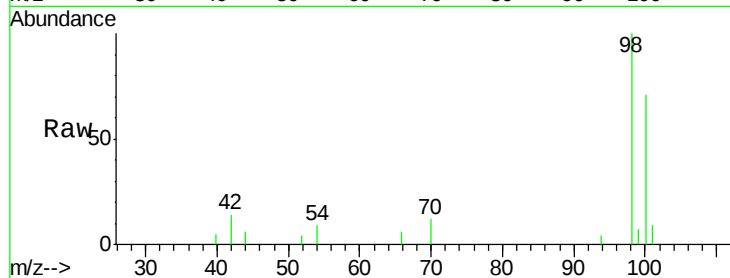
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 20791

Ion Ratio Lower Upper

98 100

100 71.3 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VD061644.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD061644.D (-905) (-)

10.44

8000

6000

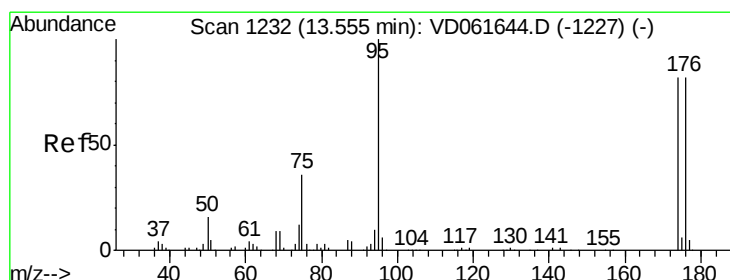
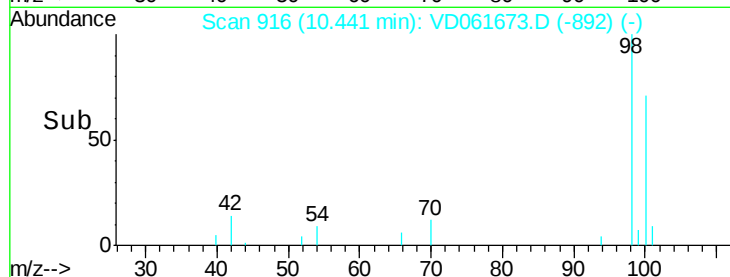
4000

2000

0

10.40 10.45 10.50

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

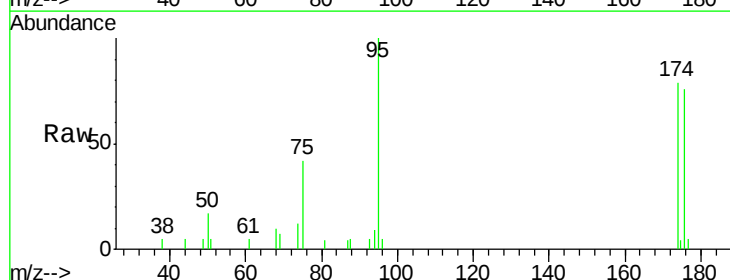
Tgt Ion: 95 Resp: 10840

Ion Ratio Lower Upper

95 100

174 79.1 0.0 164.6

176 75.6 0.0 165.0



Abundance Ion 95.00 (94.70 to 95.70): VD061644.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD061644.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD061644.D (-1227) (-)

13.57

8000

6000

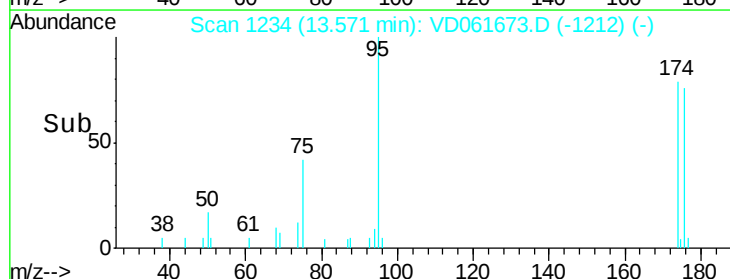
4000

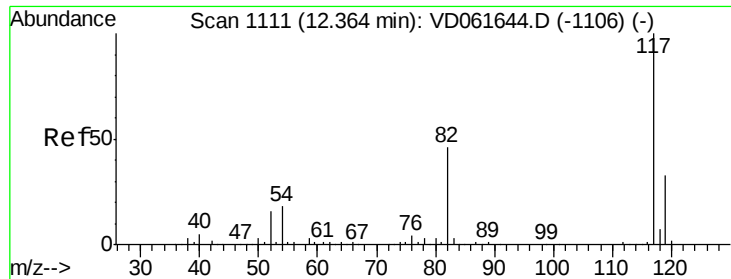
2000

0

13.50 13.55 13.60

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.39 min Scan# 1114

Delta R.T. 0.03 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

Instrument :

MSVOA_D

ClientSampleId :

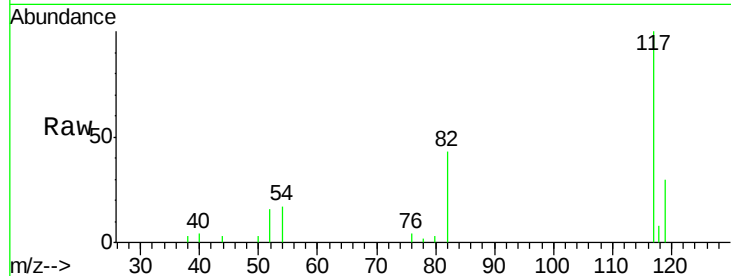
Tot Ion:117 Resp: 21813

Ion Ratio Lower Upper

117 100

82 43.2 36.8 55.2

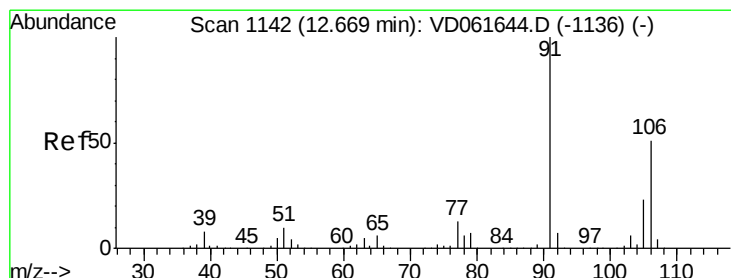
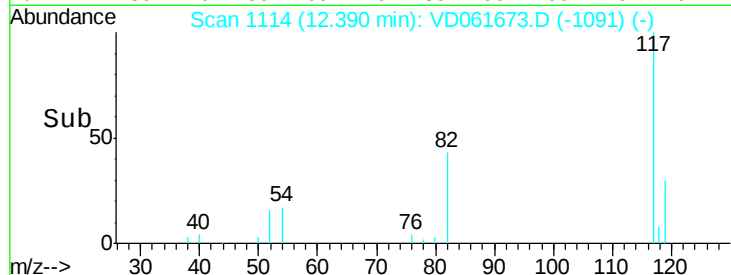
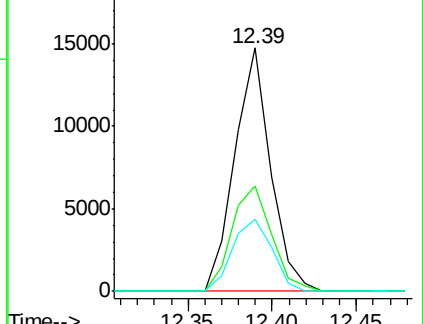
119 29.5 26.1 39.1



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



#68

m/p-Xylenes

Concen: 1.516 ug/l

RT: 12.69 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VD061673.D

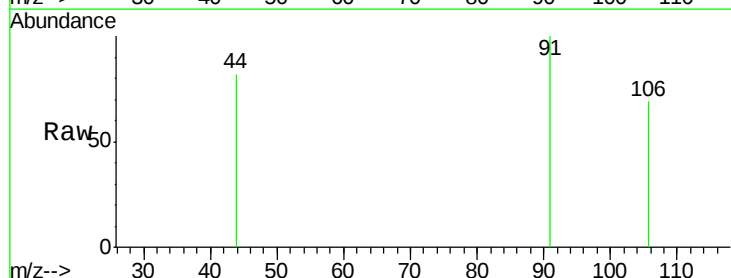
Acq: 9 Apr 2019 14:28

Tgt Ion:106 Resp: 385

Ion Ratio Lower Upper

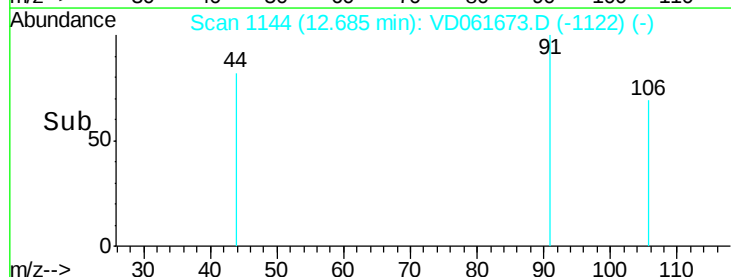
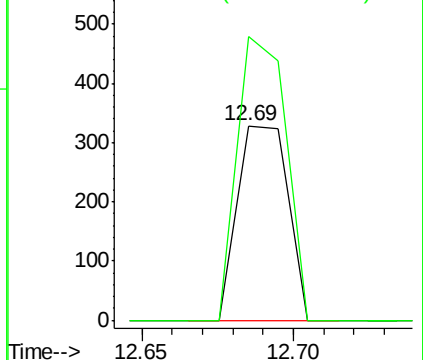
106 100

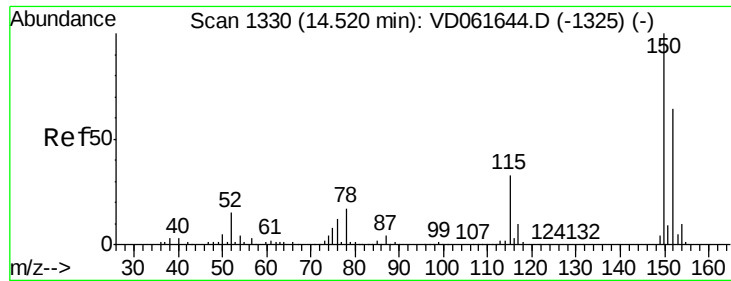
91 145.7 156.7 235.1#



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: 14.54 min Scan# 1332

Delta R.T. 0.02 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

Instrument :

MSVOA_D

ClientSampled :

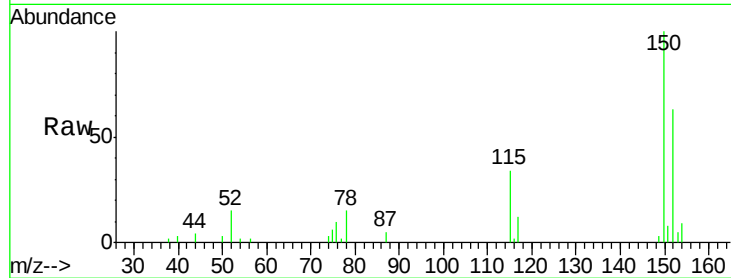
Tot Ion:152 Resp: 11415

Ion Ratio Lower Upper

152 100

115 53.4 26.4 79.2

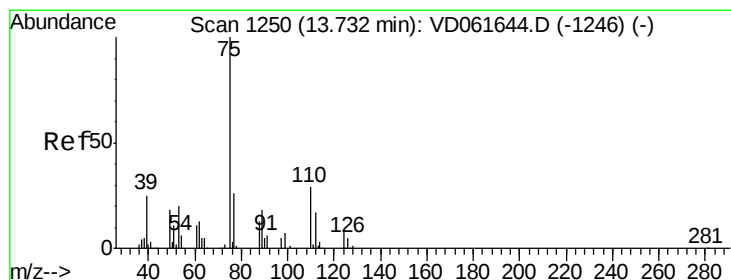
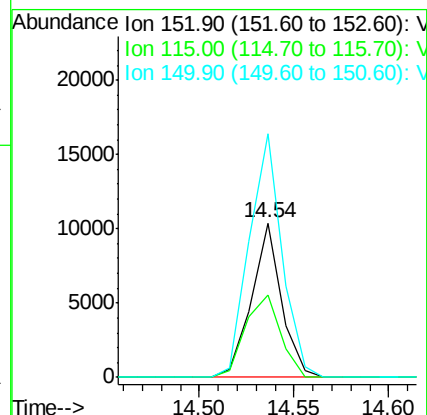
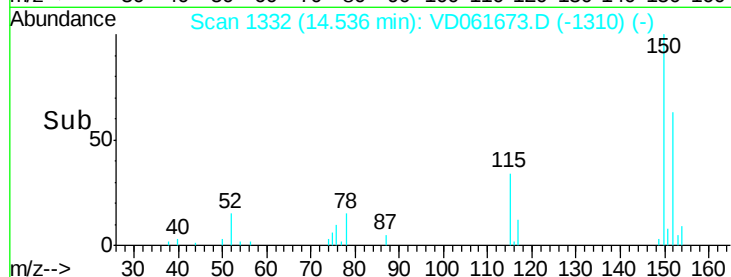
150 157.9 0.0 320.6



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: 28.899 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD061673.D

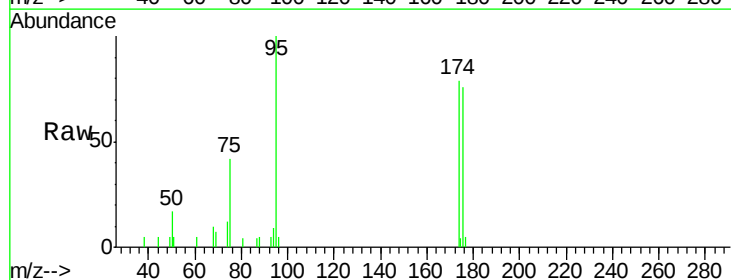
Acq: 9 Apr 2019 14:28

Tgt Ion: 75 Resp: 4488

Ion Ratio Lower Upper

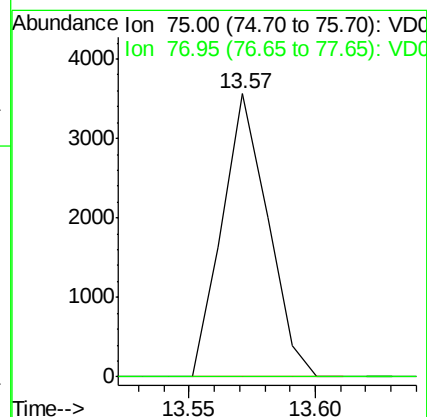
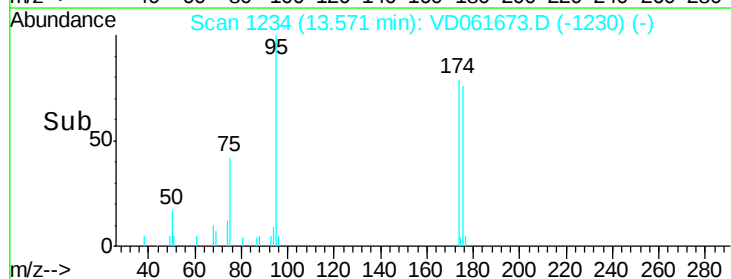
75 100

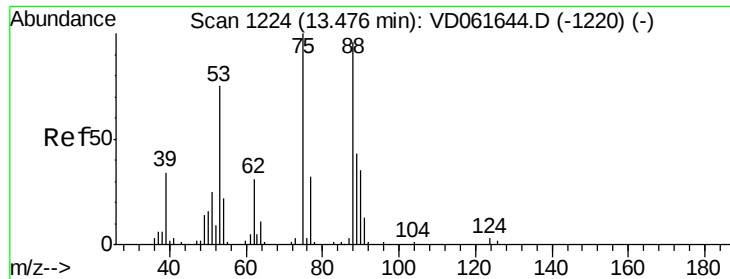
77 0.0 15.7 47.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 95.232 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.10 min

Lab File: VD061673.D

Acq: 9 Apr 2019 14:28

Instrument :

MSVOA_D

ClientSampleId :

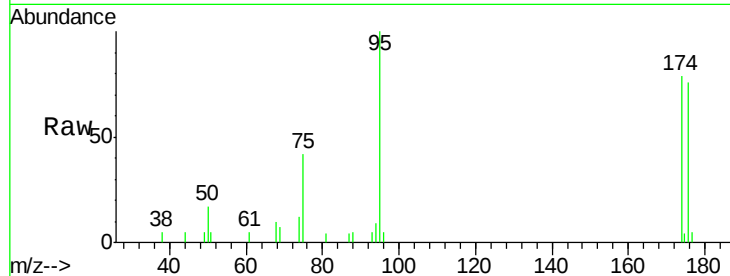
Tot Ion: 75 Resp: 4488

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

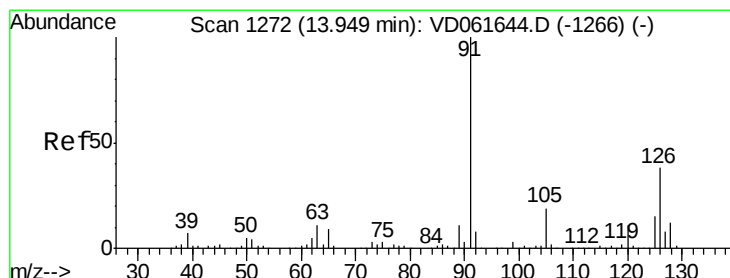
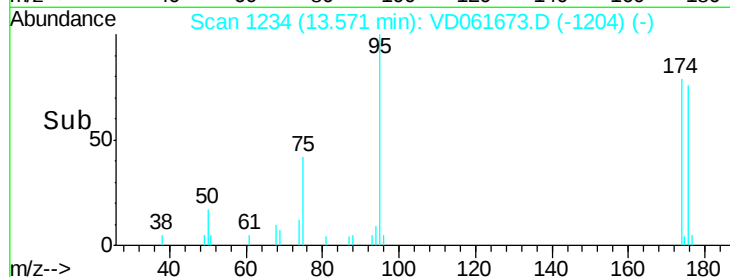
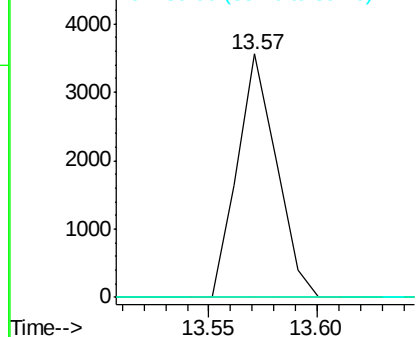
89 0.0 34.2 51.2#



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



#82

4-Chlorotoluene

Concen: 1.003 ug/l

RT: 13.96 min Scan# 1274

Delta R.T. 0.02 min

Lab File: VD061673.D

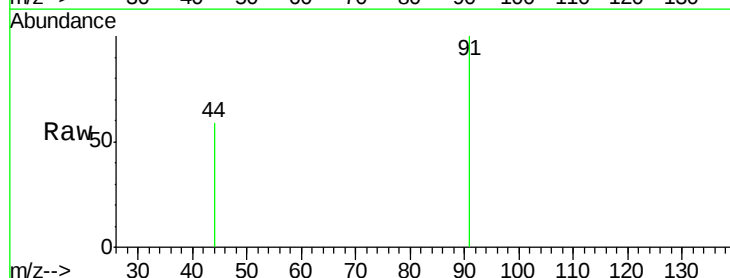
Acq: 9 Apr 2019 14:28

Tgt Ion: 91 Resp: 572

Ion Ratio Lower Upper

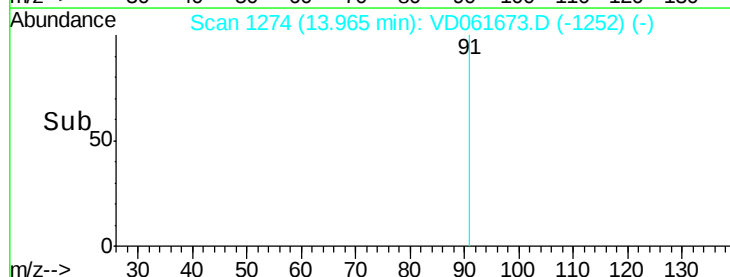
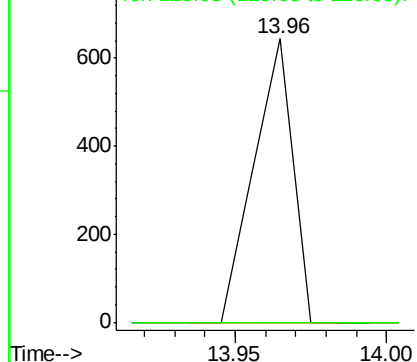
91 100

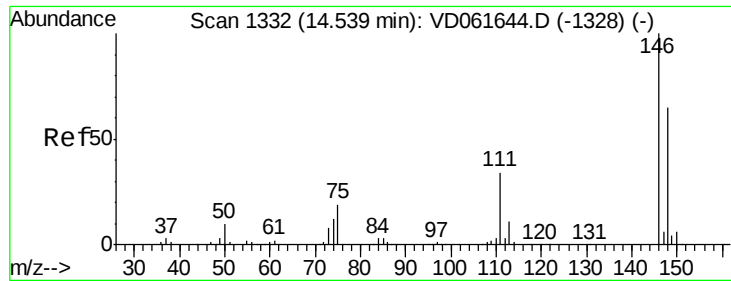
126 0.0 19.0 57.0#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

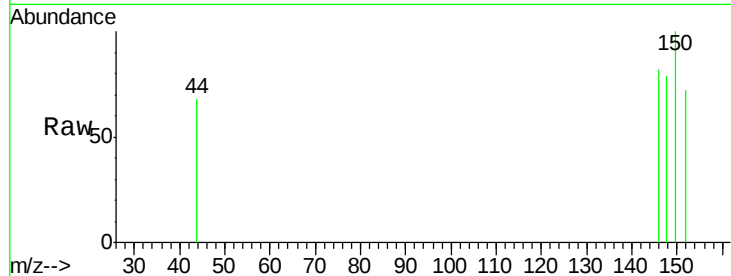




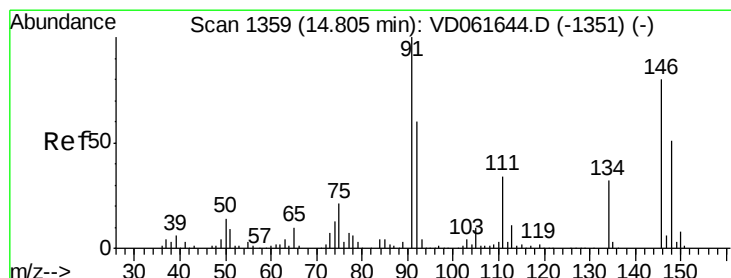
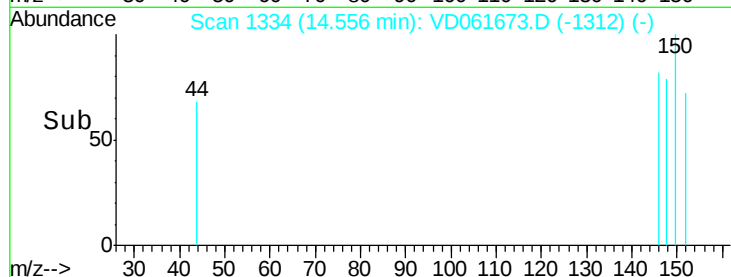
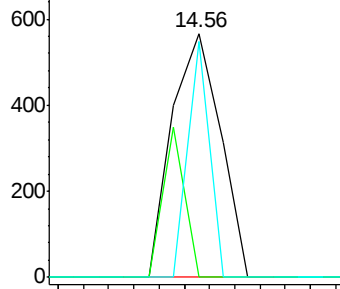
#88
 1,4-Dichlorobenzene
 Concen: 1.969 ug/l
 RT: 14.56 min Scan# 1334
 Delta R.T. 0.02 min
 Lab File: VD061673.D
 Acq: 9 Apr 2019 14:28

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:146 Resp: 755
 Ion Ratio Lower Upper
 146 100
 111 0.0 17.1 51.2#
 148 96.6 32.6 97.7

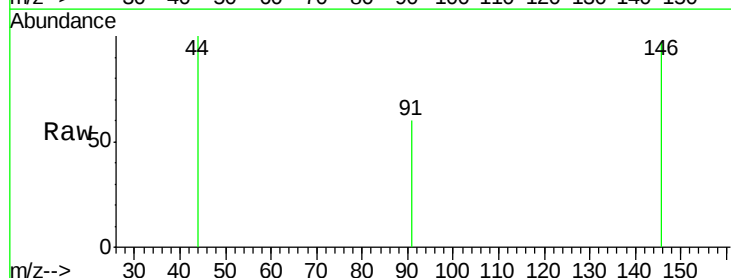


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

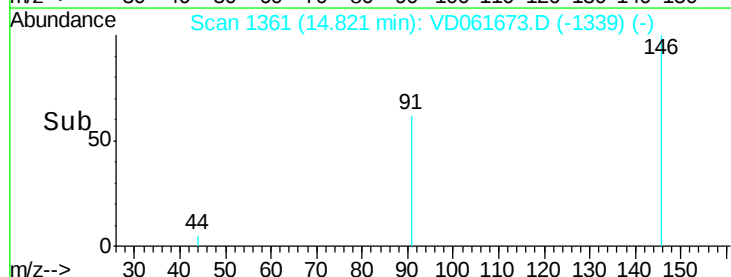
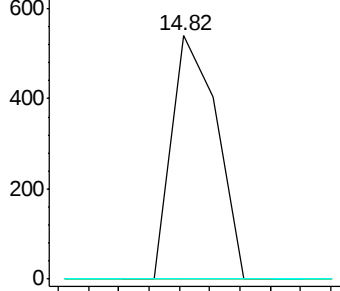


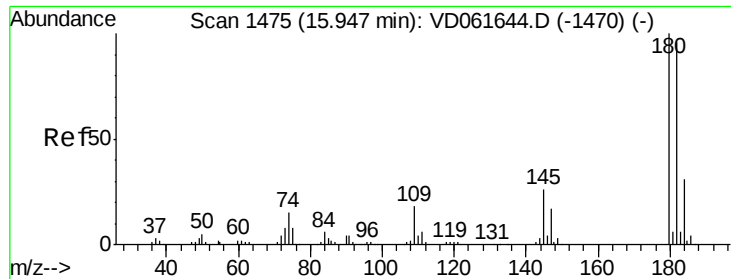
#91
 1,2-Dichlorobenzene
 Concen: 1.782 ug/l
 RT: 14.82 min Scan# 1361
 Delta R.T. 0.02 min
 Lab File: VD061673.D
 Acq: 9 Apr 2019 14:28

Tgt Ion:146 Resp: 558
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.1 63.3#
 148 0.0 31.7 95.1#



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

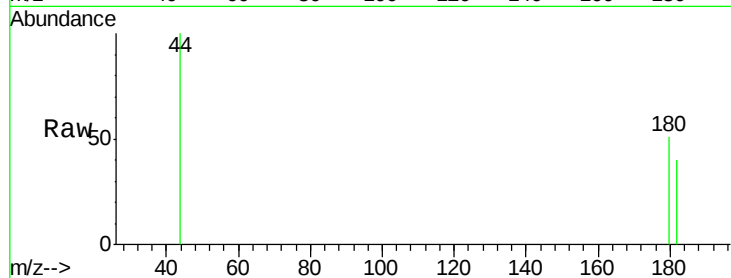




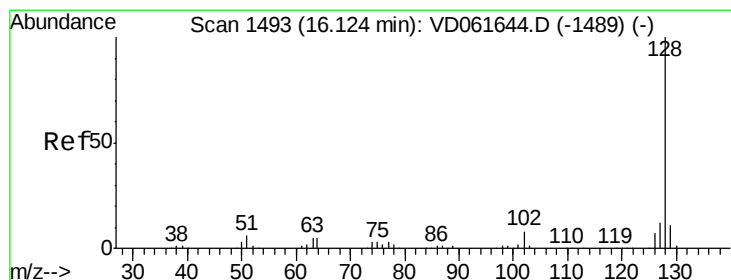
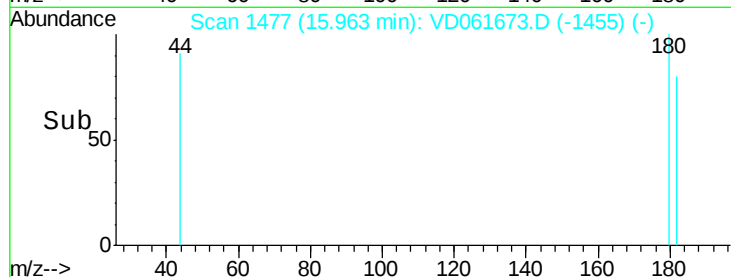
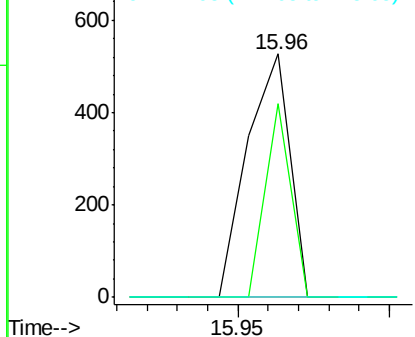
#93
 1,2,4-Trichlorobenzene
 Concen: 3.241 ug/l
 RT: 15.96 min Scan# 1477
 Delta R.T. 0.02 min
 Lab File: VD061673.D
 Acq: 9 Apr 2019 14:28

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 517
 Ion Ratio Lower Upper
 180 100
 182 79.5 47.8 143.3
 145 0.0 13.3 39.8#

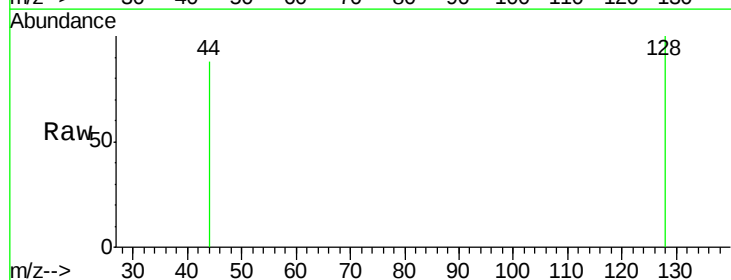


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 4.155 ug/l
 RT: 16.14 min Scan# 1495
 Delta R.T. 0.02 min
 Lab File: VD061673.D
 Acq: 9 Apr 2019 14:28

Tgt Ion:128 Resp: 1049
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.4 14.2#
 129 0.0 8.8 13.2#



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

