

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\
 Data File : VD061996.D
 Acq On : 24 Apr 2019 14:25
 Operator : VA/AP
 Sample : K2518-02
 Misc : 5.01µl/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 25 09:09:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	1216	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	2535	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	2628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	2194	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	744	78.17	ug/l	0.00
Spiked Amount						
			Recovery	=	156.34%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount						
			Recovery	=	0.00%	
50) Toluene-d8	10.42	98	1083	25.96	ug/l	0.00
Spiked Amount						
			Recovery	=	51.92%	
62) 4-Bromofluorobenzene	13.56	95	1629	97.36	ug/l	0.00
Spiked Amount						
			Recovery	=	194.72%	

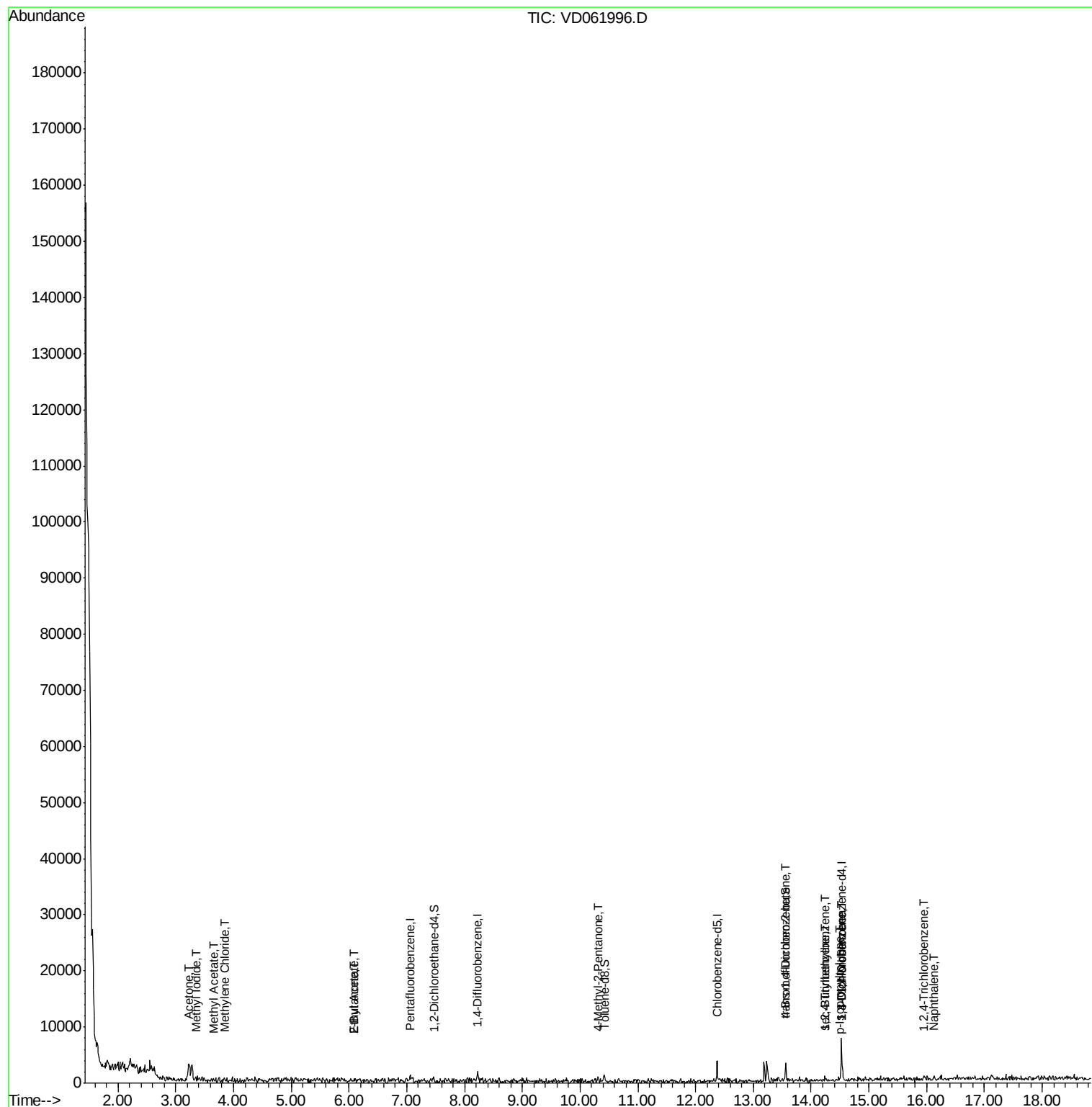
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	398	Below Cal	#	12
10) Methyl Iodide	3.35	142	474	29.235	ug/l #	37
16) Acetone	3.22	43	5920	2605.174	ug/l #	89
18) Methyl Acetate	3.66	43	217	52.775	ug/l #	53
20) Methylene Chloride	3.84	84	442	39.270	ug/l #	8
25) 2-Butanone	6.09	43	250	90.740	ug/l #	56
37) Ethyl Acetate	6.09	43	250	29.704	ug/l #	64
51) 4-Methyl-2-Pentanone	10.30	43	787	104.646	ug/l #	37
81) trans-1,4-Dichloro-2-buten	13.57	75	622	73.672	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	447	4.012	ug/l #	30
85) sec-Butylbenzene	14.24	105	447	3.060	ug/l #	60
86) p-Isopropyltoluene	14.49	119	186	1.423	ug/l #	52
87) 1,3-Dichlorobenzene	14.54	146	305	4.148	ug/l #	25
88) 1,4-Dichlorobenzene	14.54	146	305	4.436	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.95	180	223	6.815	ug/l #	11
95) Naphthalene	16.13	128	431	8.157	ug/l #	70

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD042419\
Data File : VD061996.D
Acq On : 24 Apr 2019 14:25
Operator : VA/AP
Sample : K2518-02
Misc : 5.01a/5ml/MSVOA D/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Apr 25 09:09:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 23 14:52:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

Instrument :

MSVOA_D

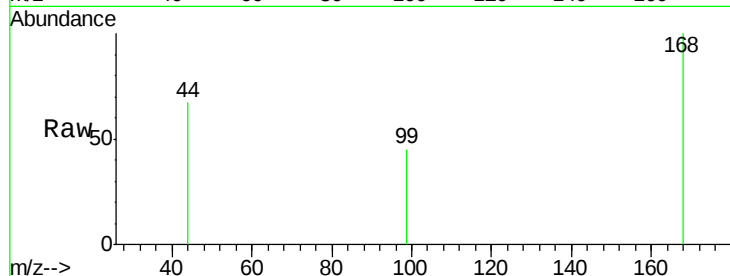
ClientSampleId :

Tot Ion:168 Resp: 1216

Ion Ratio Lower Upper

168 100

99 44.9 46.5 69.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

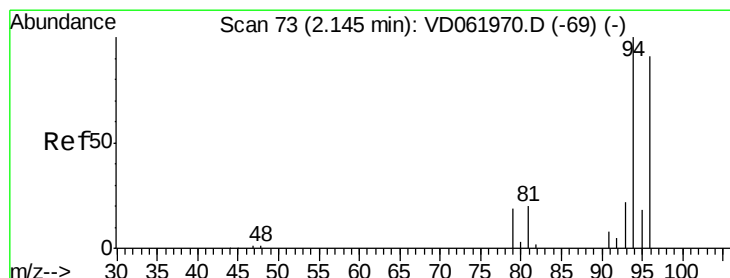
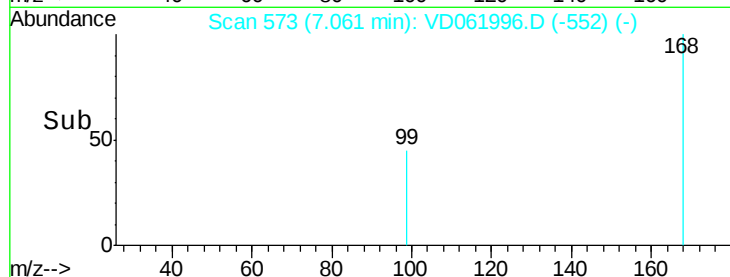
600

400

200

0

Time--> 7.00 7.05 7.10



#5

Bromomethane

Concen: Below Cal

RT: 2.14 min Scan# 73

Delta R.T. -0.02 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

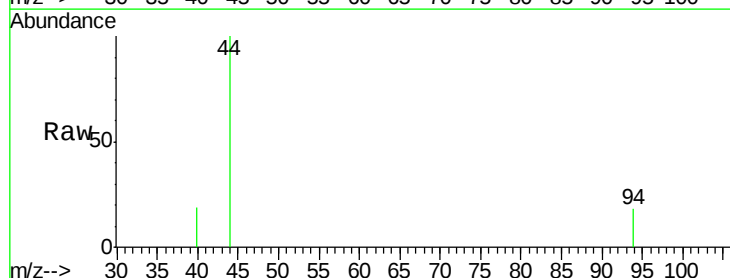
Tgt Ion: 94 Resp: 398

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



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

2.14

400

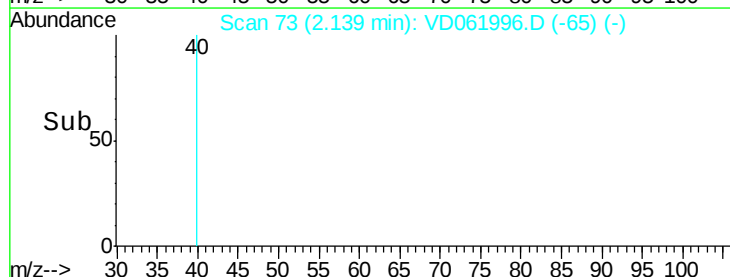
300

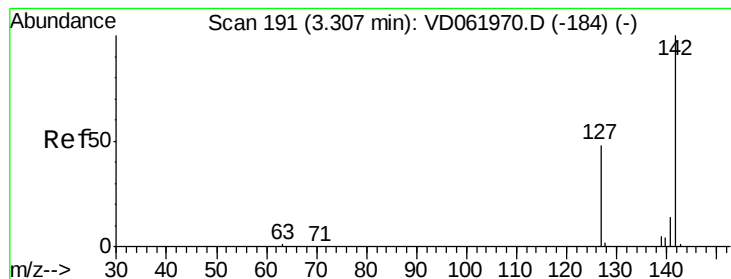
200

100

0

Time--> 2.12 2.14 2.16





#10

Methyl Iodide

Concen: 29.235 ug/l

RT: 3.35 min Scan# 196

Delta R.T. 0.03 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

Instrument :

MSVOA_D

ClientSampleId :

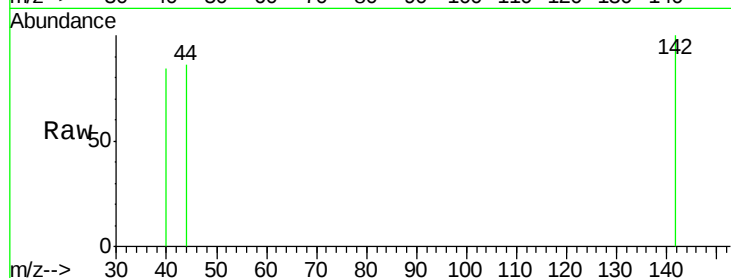
Tot Ion:142 Resp: 474

Ion Ratio Lower Upper

142 100

127 0.0 38.8 58.2#

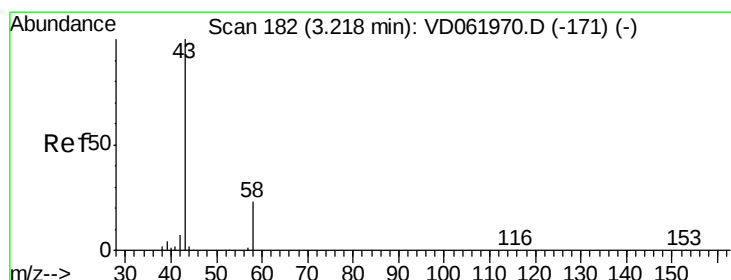
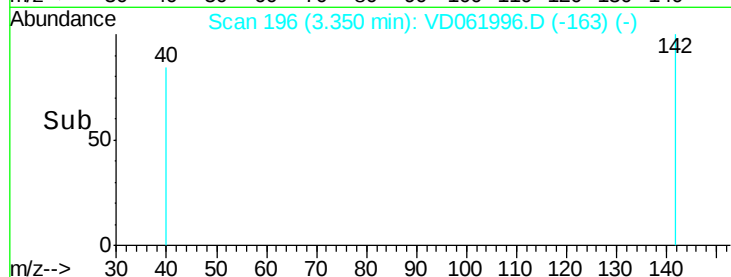
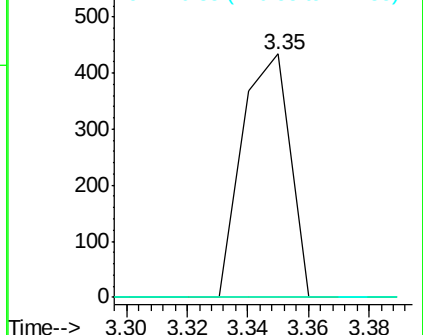
141 0.0 11.4 17.0#



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: 2605.174 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD061996.D

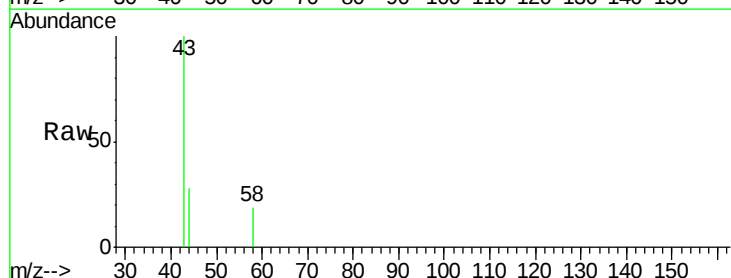
Acq: 24 Apr 2019 14:25

Tgt Ion: 43 Resp: 5920

Ion Ratio Lower Upper

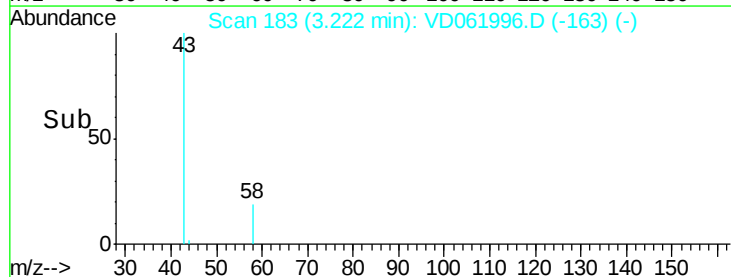
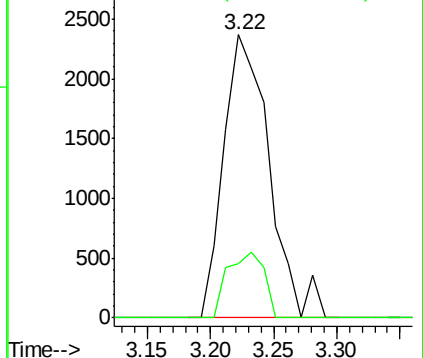
43 100

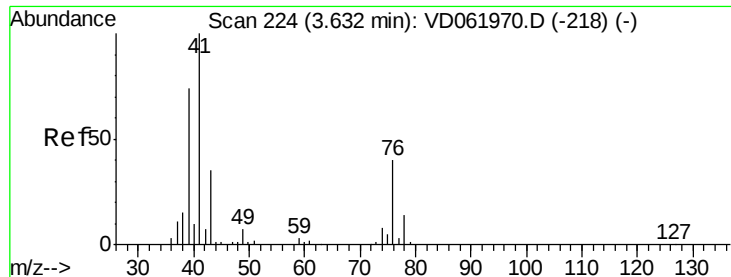
58 19.2 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 57.95 (57.65 to 58.65): V

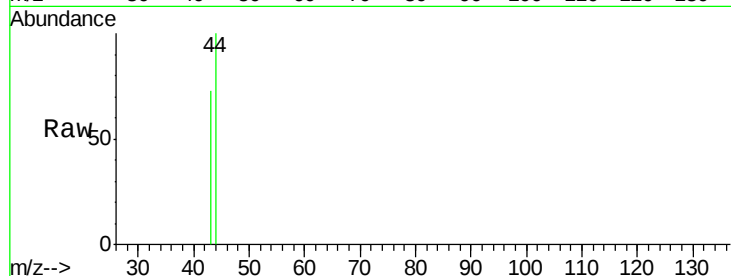




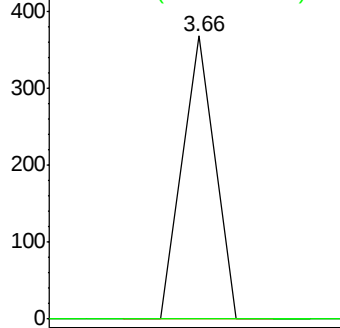
#18
Methvl Acetate
Concen: 52.775 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.01 min
Lab File: VD061996.D
Acq: 24 Apr 2019 14:25

Instrument :
MSVOA_D
ClientSampleId :

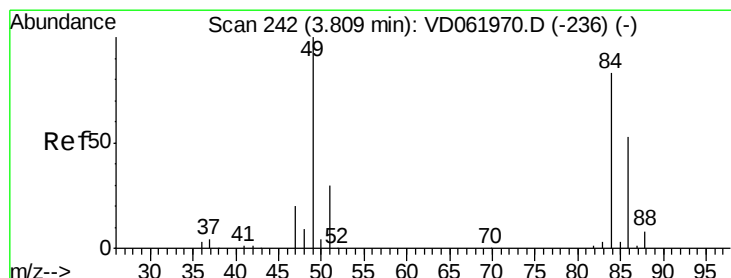
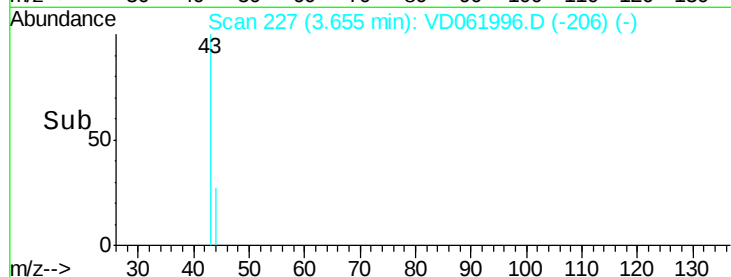
Tot Ion: 43 Resp: 217
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

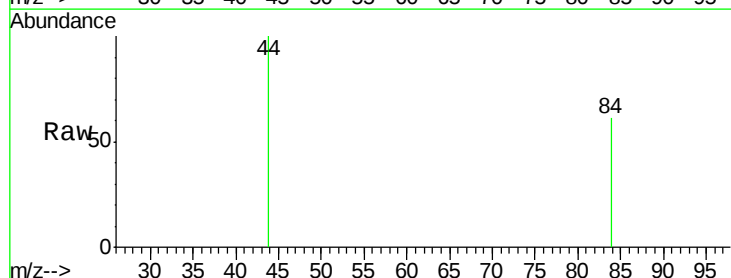


Time--> 3.62 3.64 3.66 3.68

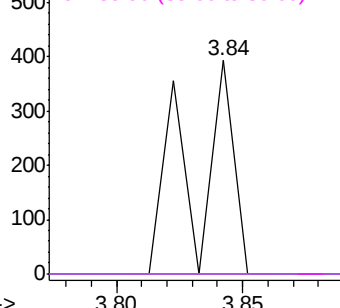


#20
Methylene Chloride
Concen: 39.270 ug/l
RT: 3.84 min Scan# 246
Delta R.T. 0.02 min
Lab File: VD061996.D
Acq: 24 Apr 2019 14:25

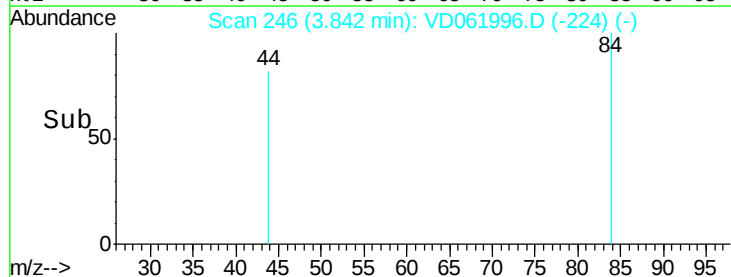
Tgt Ion: 84 Resp: 442
Ion Ratio Lower Upper
84 100
49 0.0 94.0 141.0#
51 0.0 29.0 43.4#
86 0.0 49.8 74.6#

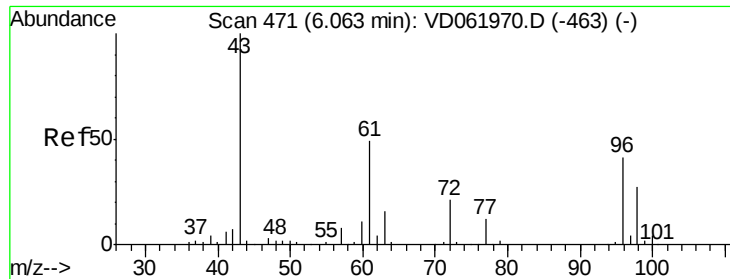


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC



Time--> 3.80 3.85





#25

2-Butanone

Concen: 90.740 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.01 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

Instrument :

MSVOA_D

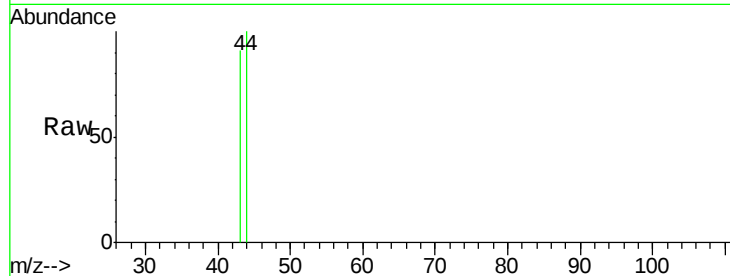
ClientSampleId :

Tot Ion: 43 Resp: 250

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.09

400

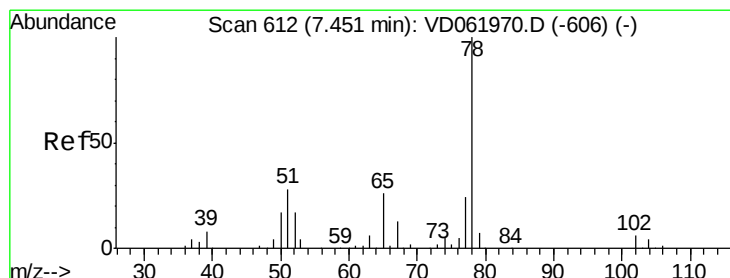
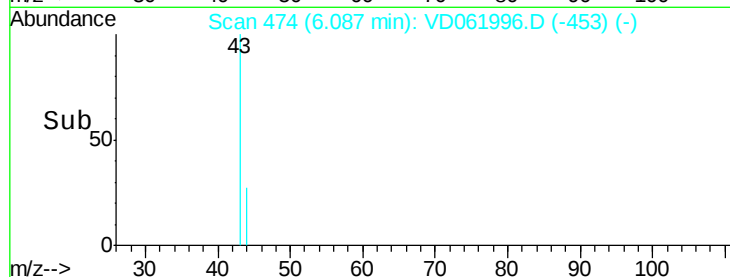
300

200

100

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061996.D

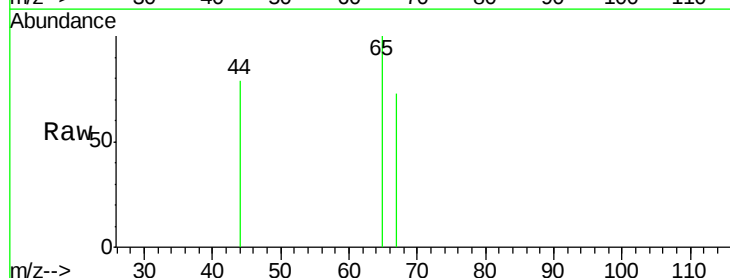
Acq: 24 Apr 2019 14:25

Tgt Ion: 65 Resp: 744

Ion Ratio Lower Upper

65 100

67 72.6 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

500

400

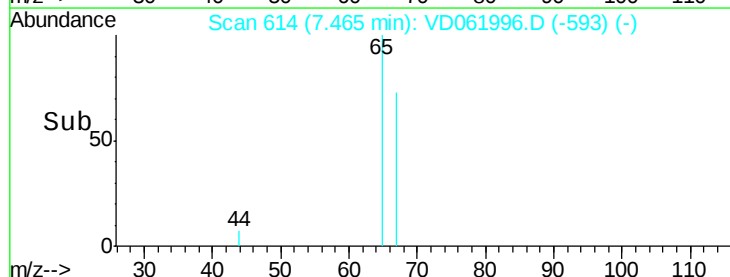
300

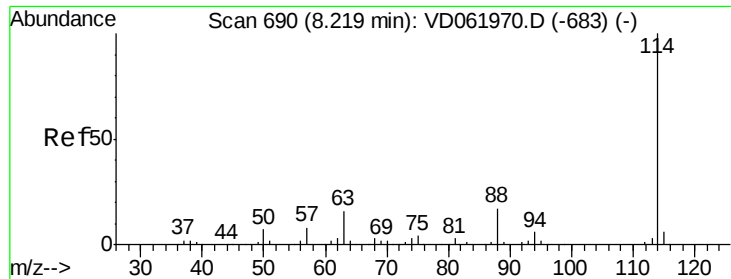
200

100

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 691

Delta R.T. -0.00 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

Instrument :

MSVOA_D

ClientSampleId :

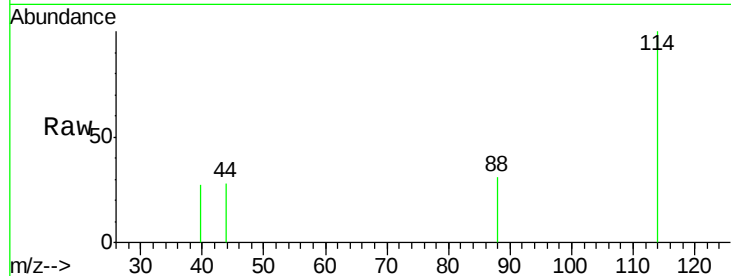
Tot Ion:114 Resp: 2535

Ion Ratio Lower Upper

114 100

63 0.0 0.0 32.4

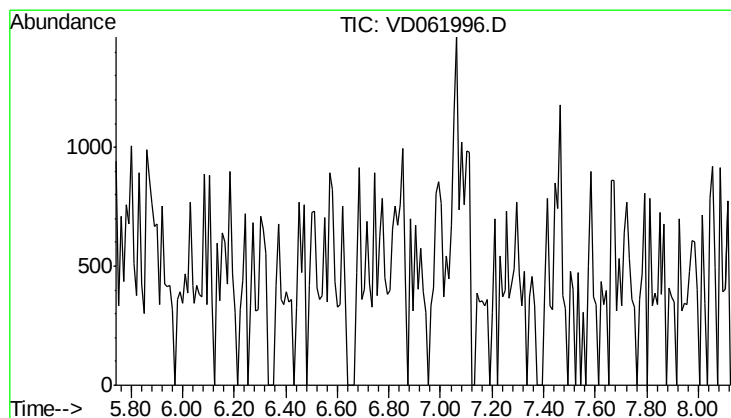
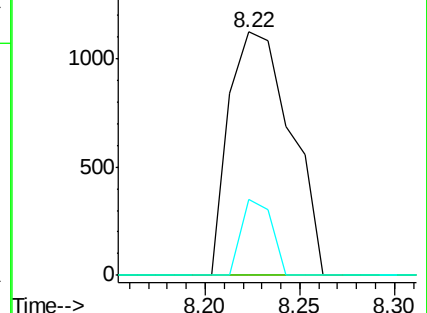
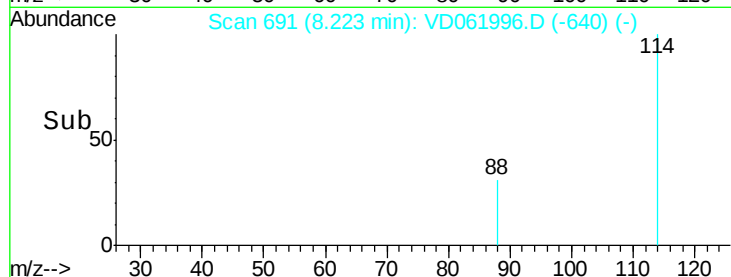
88 31.0 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VD0

Ion 87.90 (87.60 to 88.60): VD0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

Expected RT: 6.93 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

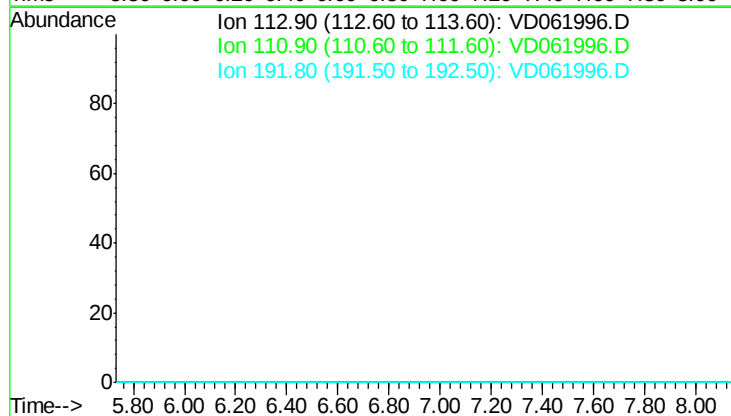
Tgt Ion: 113

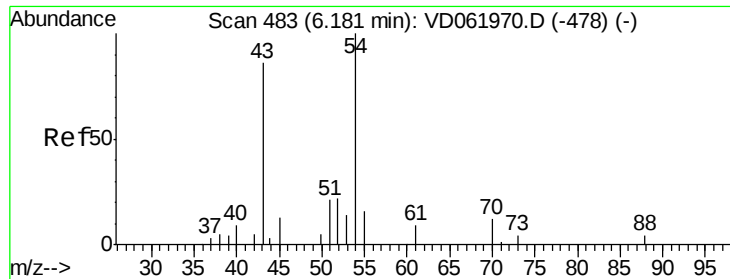
Sig Exp Ratio

113 100

111 98.1

192 16.2





#37

Ethyl Acetate

Concen: 29.704 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.10 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

Instrument :

MSVOA_D

ClientSampleId :

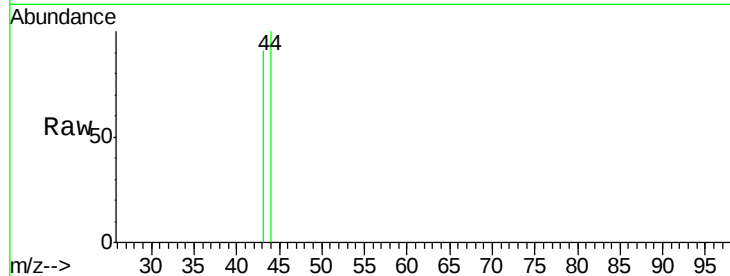
Tot Ion: 43 Resp: 250

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

70 0.0 7.8 11.6#



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

6.09

400

300

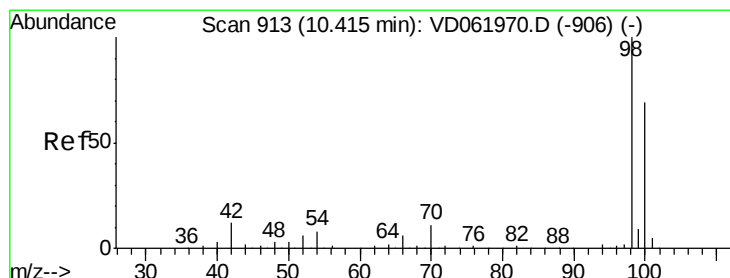
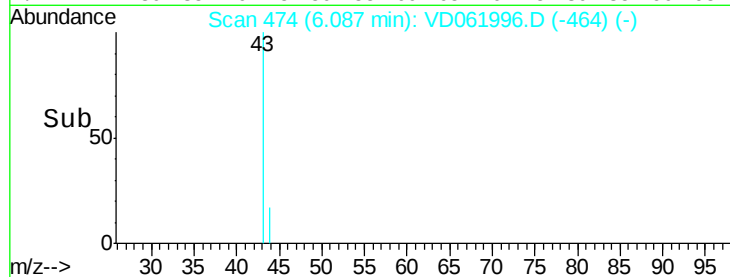
200

100

0

6.06 6.08 6.10 6.12

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.42 min Scan# 914

Delta R.T. -0.00 min

Lab File: VD061996.D

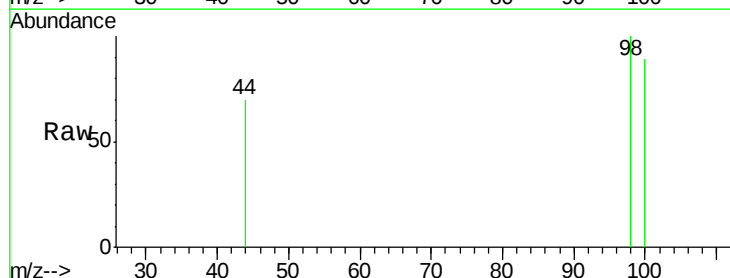
Acq: 24 Apr 2019 14:25

Tgt Ion: 98 Resp: 1083

Ion Ratio Lower Upper

98 100

100 89.1 53.8 80.8#



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.42

600

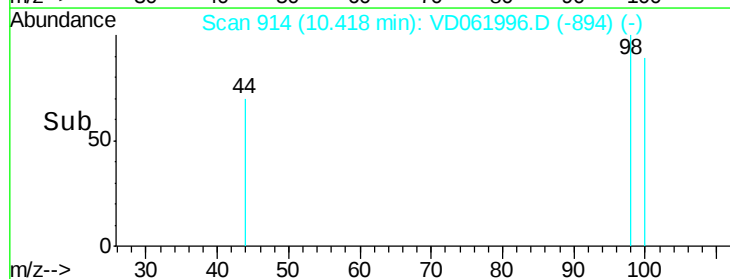
400

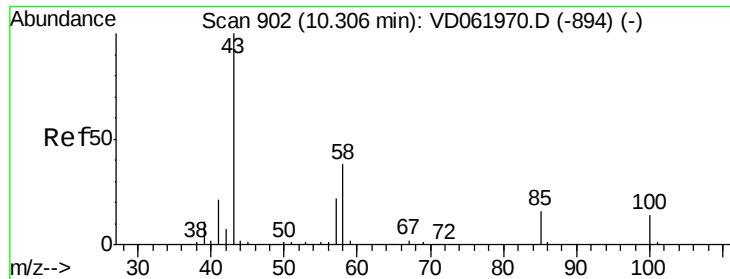
200

0

10.40 10.45

Time-->





#51

4-Methyl-2-Pentanone

Concen: 104.646 ug/l

RT: 10.30 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

Instrument :

MSVOA_D

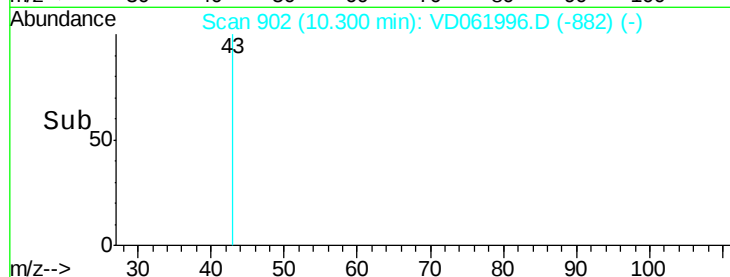
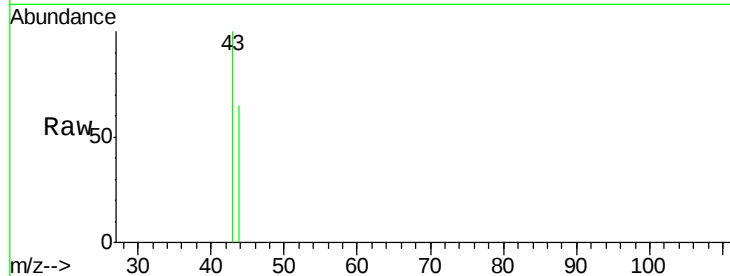
ClientSampleId :

Tot Ion: 43 Resp: 787

Ion Ratio Lower Upper

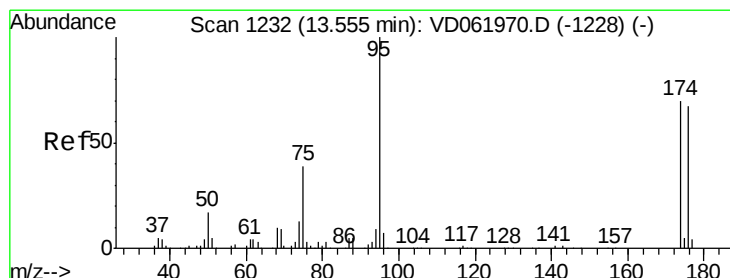
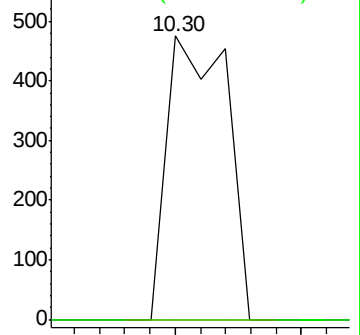
43 100

58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

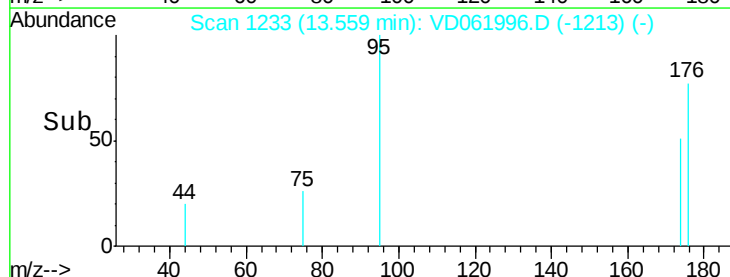
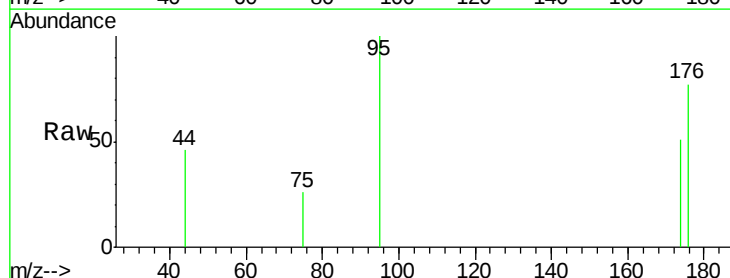
Tgt Ion: 95 Resp: 1629

Ion Ratio Lower Upper

95 100

174 51.3 0.0 181.8

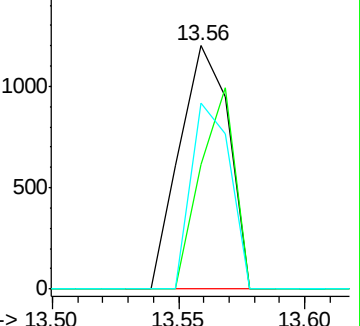
176 76.5 0.0 174.4

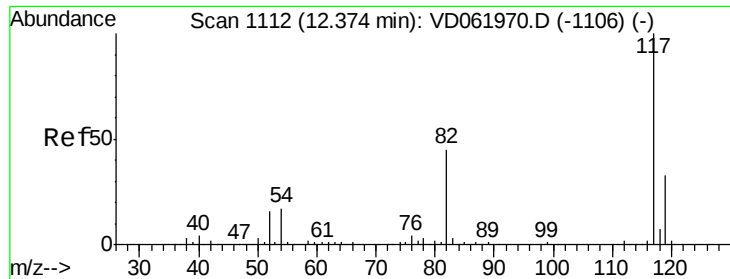


Abundance Ion 95.00 (94.70 to 95.70): VDC

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: 12.38 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

Instrument :

MSVOA_D

ClientSampleId :

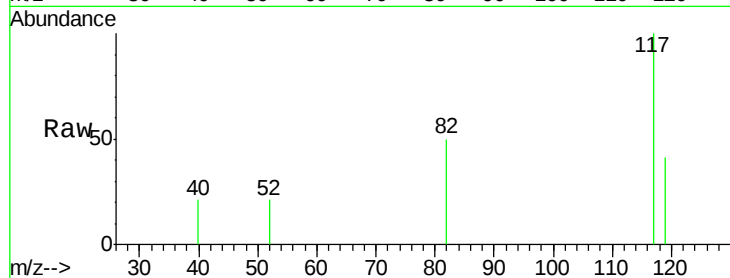
Tot Ion:117 Resp: 2628

Ion Ratio Lower Upper

117 100

82 50.2 36.2 54.2

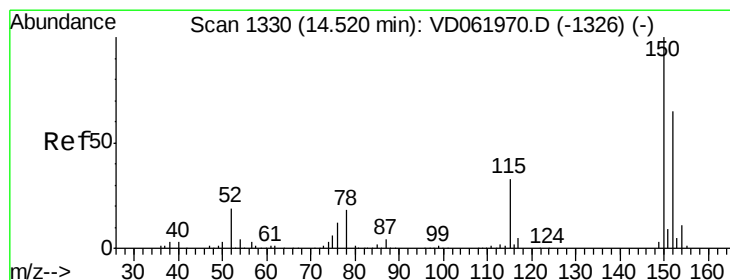
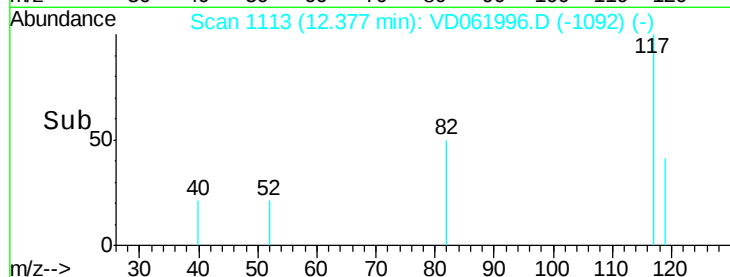
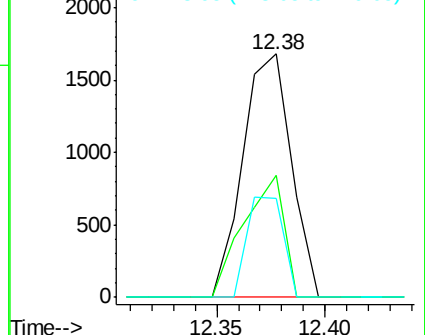
119 40.7 26.2 39.4#



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: 14.52 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

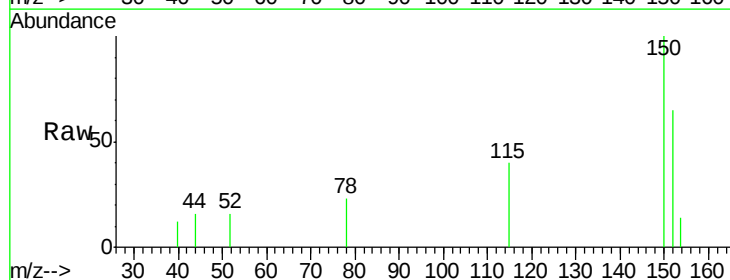
Tgt Ion:152 Resp: 2194

Ion Ratio Lower Upper

152 100

115 61.6 30.9 92.7

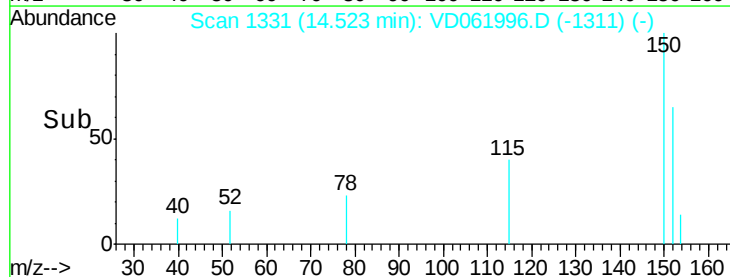
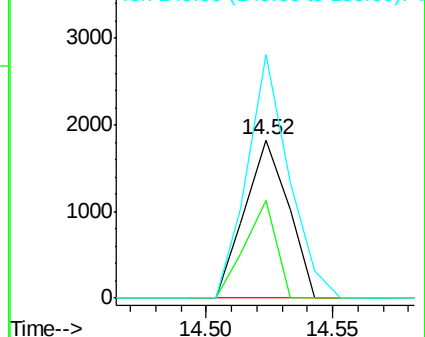
150 153.8 0.0 314.8

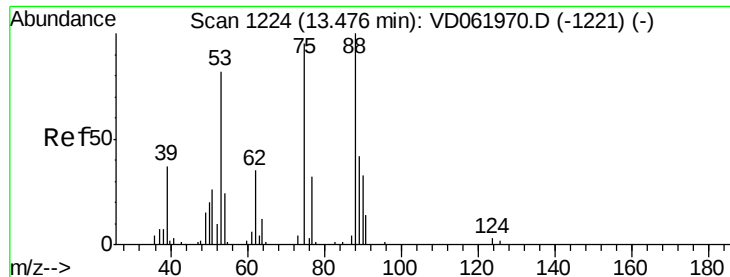


Abundance Ion 151.90 (151.60 to 152.60): V

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: 73.672 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.09 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

Instrument :

MSVOA_D

ClientSampleId :

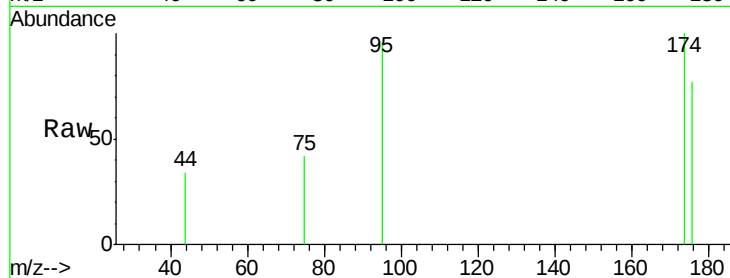
Tot Ion: 75 Resp: 622

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

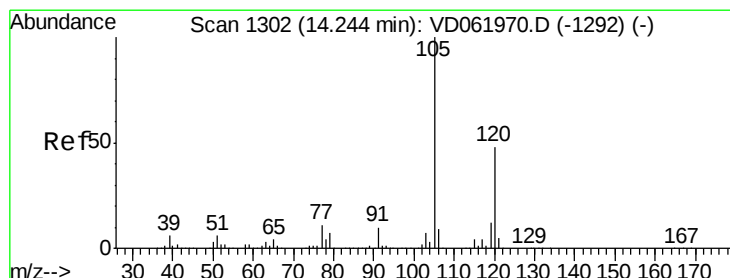
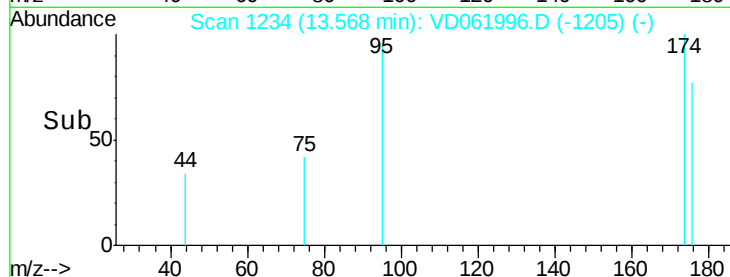
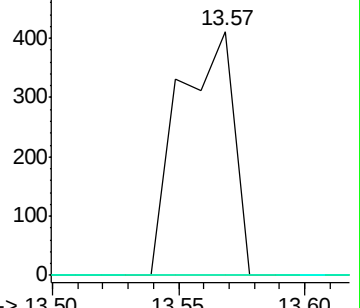
89 0.0 35.0 52.6#



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



#84

1,2,4-Trimethylbenzene

Concen: 4.012 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VD061996.D

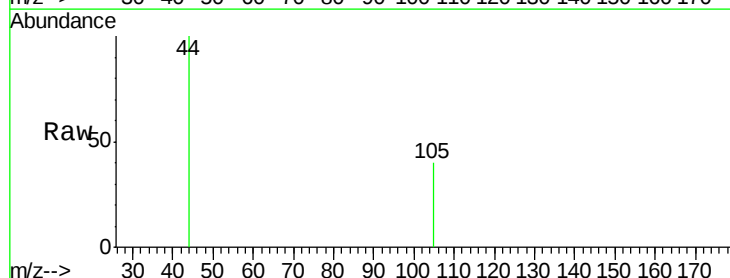
Acq: 24 Apr 2019 14:25

Tgt Ion: 105 Resp: 447

Ion Ratio Lower Upper

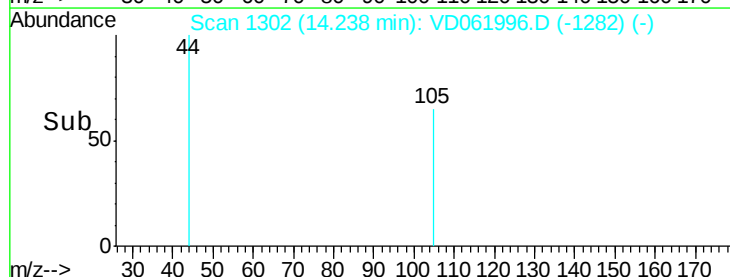
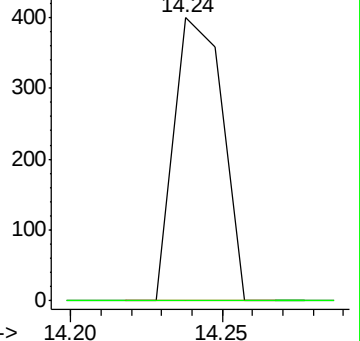
105 100

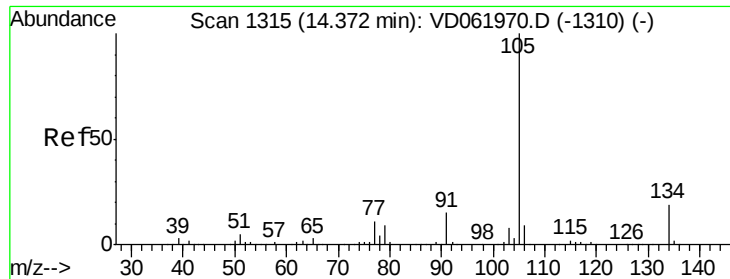
120 0.0 23.1 69.2#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

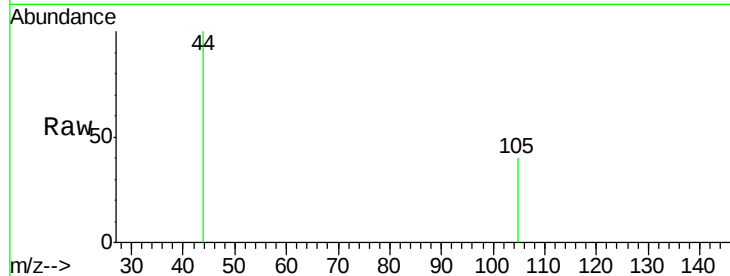




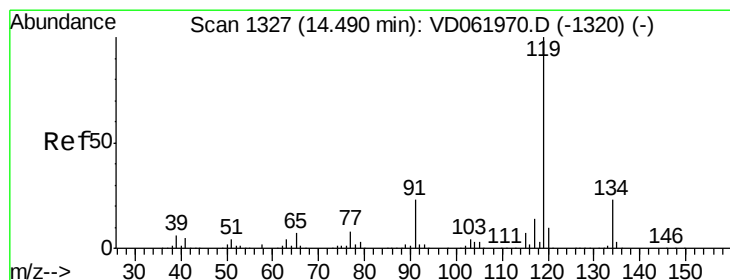
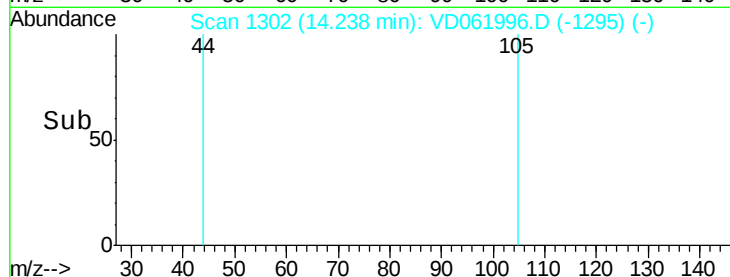
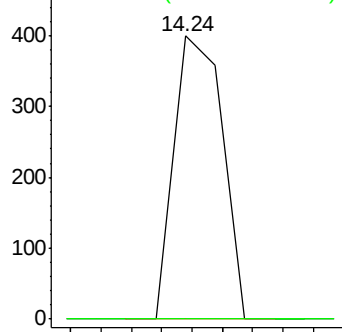
#85
 sec-Butylbenzene
 Concen: 3.060 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.13 min
 Lab File: VD061996.D
 Acq: 24 Apr 2019 14:25

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:105 Resp: 447
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.9 26.7#

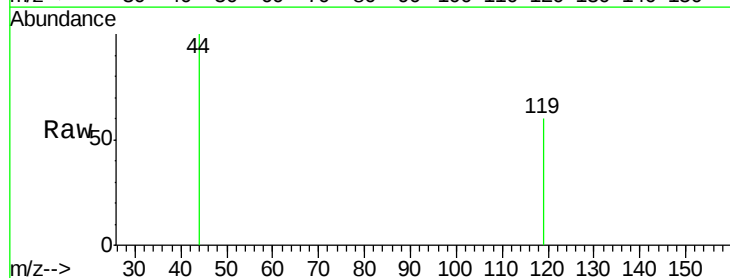


Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 134.10 (133.80 to 134.80): V

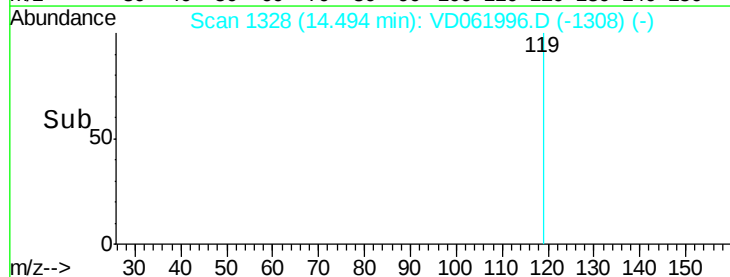
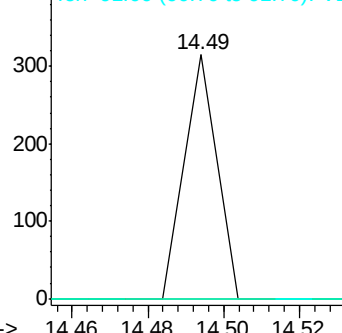


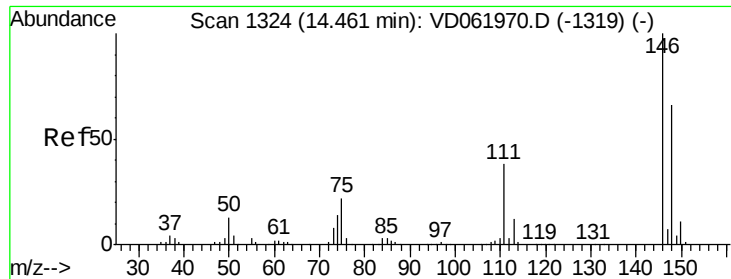
#86
 p-Isopropyltoluene
 Concen: 1.423 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. -0.00 min
 Lab File: VD061996.D
 Acq: 24 Apr 2019 14:25

Tgt Ion:119 Resp: 186
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.8 38.3#
 91 0.0 10.7 32.1#



Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 134.10 (133.80 to 134.80): V
 Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 4.148 ug/l

RT: 14.54 min Scan# 1333

Delta R.T. 0.09 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

Instrument :

MSVOA_D

ClientSampleId :

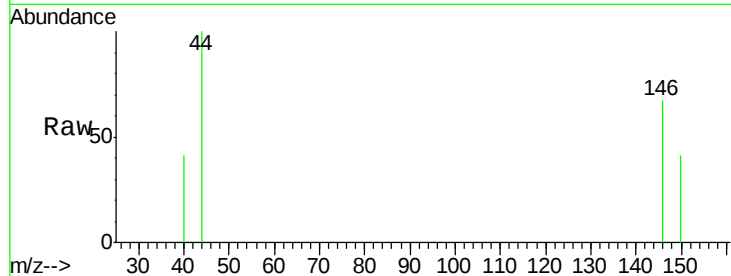
Tot Ion:146 Resp: 305

Ion Ratio Lower Upper

146 100

111 0.0 20.0 60.0#

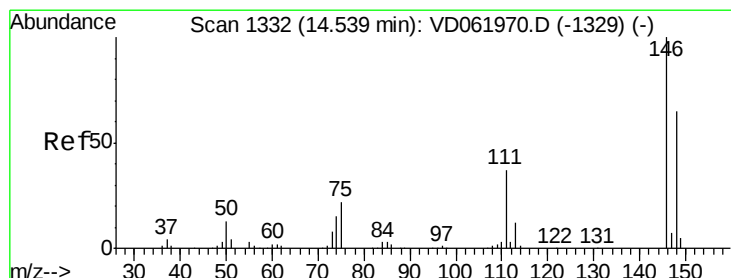
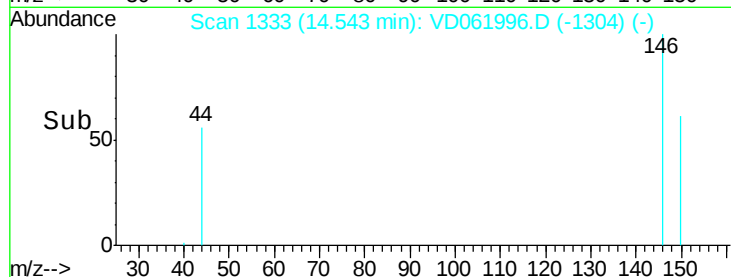
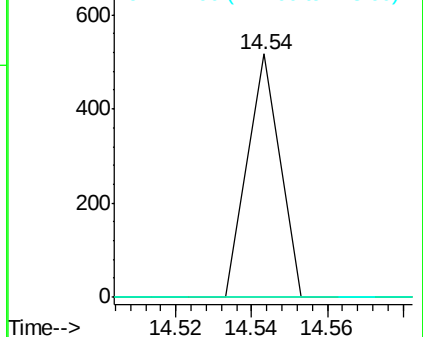
148 0.0 31.8 95.4#



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



#88

1,4-Dichlorobenzene

Concen: 4.436 ug/l

RT: 14.54 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VD061996.D

Acq: 24 Apr 2019 14:25

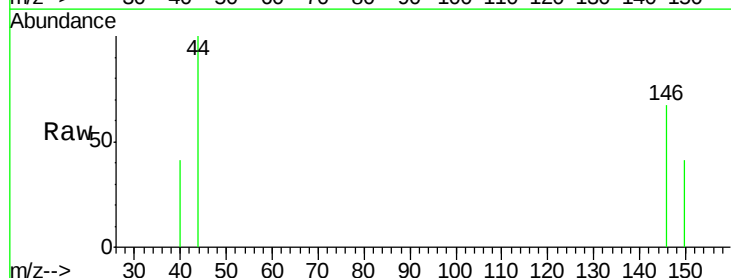
Tgt Ion:146 Resp: 305

Ion Ratio Lower Upper

146 100

111 0.0 20.2 60.5#

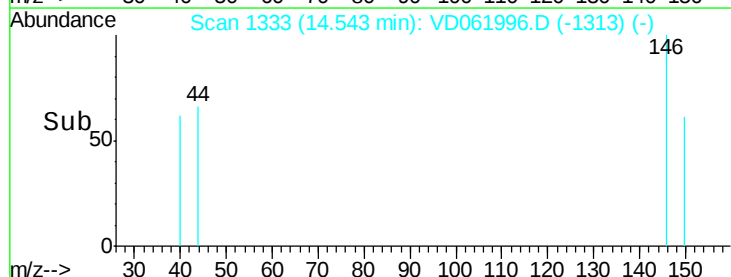
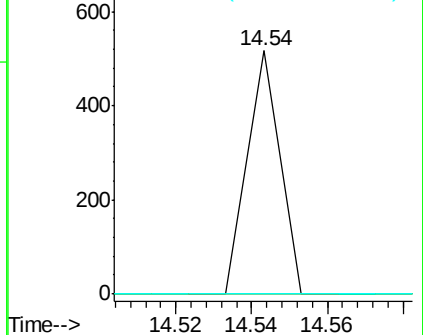
148 0.0 32.0 96.2#

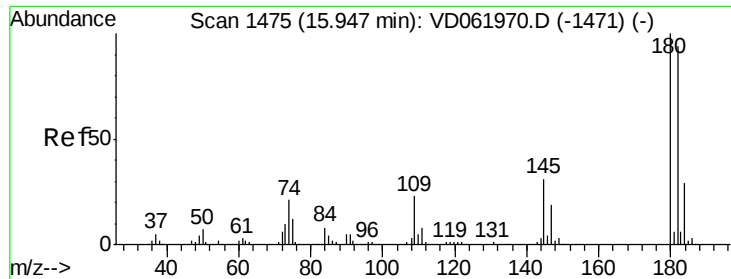


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

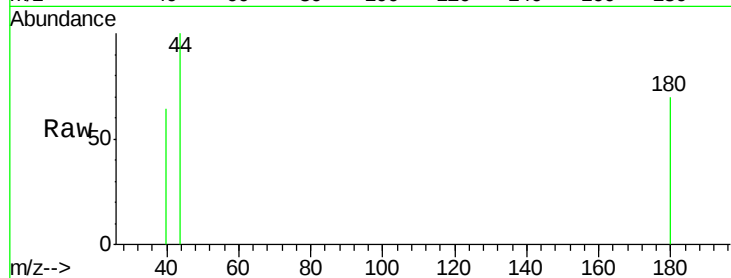




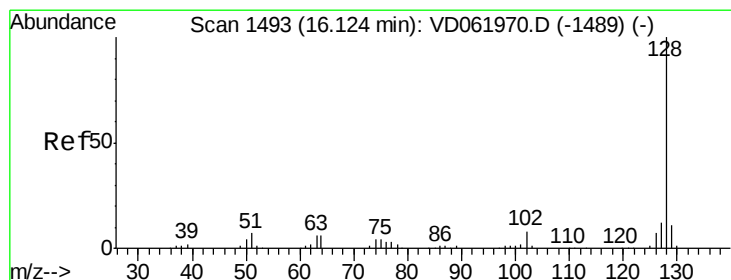
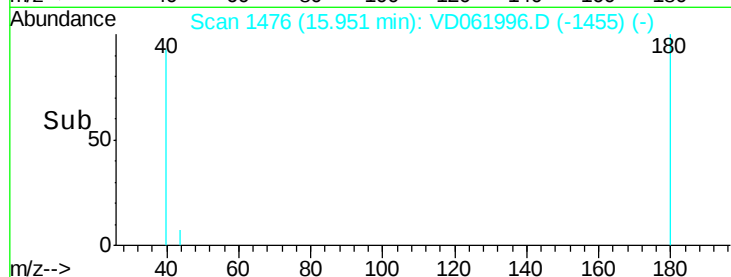
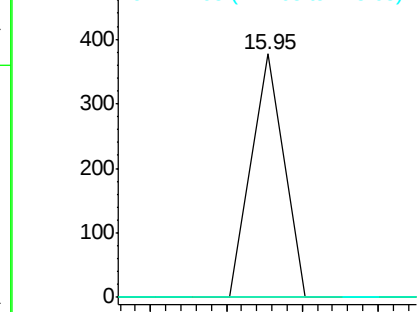
#93
 1,2,4-Trichlorobenzene
 Concen: 6.815 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD061996.D
 Acq: 24 Apr 2019 14:25

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 223
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.3 147.8#
 145 0.0 16.2 48.6#

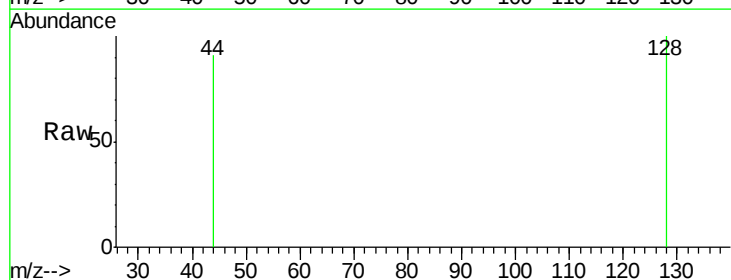


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 8.157 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VD061996.D
 Acq: 24 Apr 2019 14:25

Tgt Ion:128 Resp: 431
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.8 14.8#
 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

