

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050819\
 Data File : VD062170.D
 Acq On : 8 May 2019 13:26
 Operator : FY/SY
 Sample : K2672-17
 Misc : 5.02g/5mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-09-1.0-1.5

Quant Time: May 09 01:24:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	28361	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	46775	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	30966	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	9010	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	22052	83.67	ug/l	0.00
Spiked Amount			Recovery	=	167.34%	
35) Dibromofluoromethane	6.90	113	23850	61.45	ug/l	0.00
Spiked Amount			Recovery	=	122.90%	
50) Toluene-d8	10.39	98	32105	34.31	ug/l	-0.01
Spiked Amount			Recovery	=	68.62%	
62) 4-Bromofluorobenzene	13.54	95	10725	28.54	ug/l	0.00
Spiked Amount			Recovery	=	57.08%	

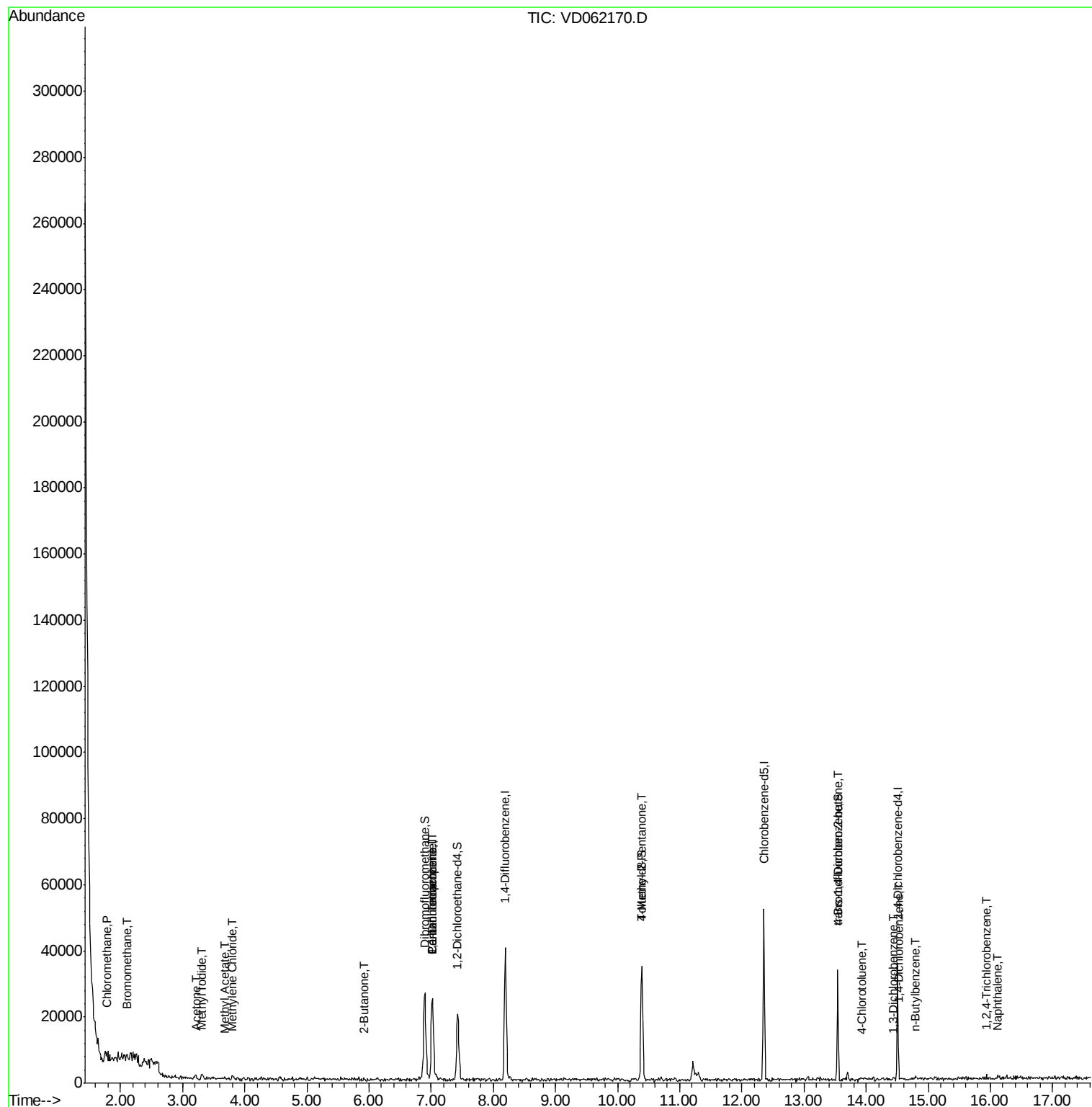
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.78	50	203	1.036	ug/l #	43
5) Bromomethane	2.12	94	328	7.267	ug/l #	12
10) Methyl Iodide	3.31	142	2000	4.671	ug/l #	84
16) Acetone	3.21	43	1569	28.387	ug/l #	50
18) Methyl Acetate	3.69	43	226	1.995	ug/l #	53
20) Methylene Chloride	3.79	84	407	1.764	ug/l #	63
25) 2-Butanone	5.93	43	217	3.599	ug/l #	56
36) 1,1-Dichloropropene	7.02	75	1622	4.229	ug/l #	40
38) Carbon Tetrachloride	7.01	117	2181	4.109	ug/l #	12
51) 4-Methyl-2-Pentanone	10.38	43	203	1.369	ug/l #	37
81) trans-1,4-Dichloro-2-buten	13.54	75	4367	144.467	ug/l #	16
82) 4-Chlorotoluene	13.93	91	443	1.020	ug/l #	37
87) 1,3-Dichlorobenzene	14.44	146	426	1.542	ug/l #	25
88) 1,4-Dichlorobenzene	14.53	146	397	1.463	ug/l #	65
89) n-Butylbenzene	14.79	91	536	1.193	ug/l #	28
93) 1,2,4-Trichlorobenzene	15.94	180	308	1.860	ug/l #	53
95) Naphthalene	16.11	128	1159	5.014	ug/l #	70

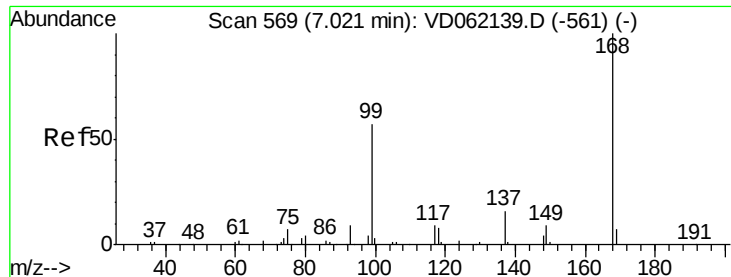
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.01 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

Instrument :

MSVOA_D

ClientSampleId :

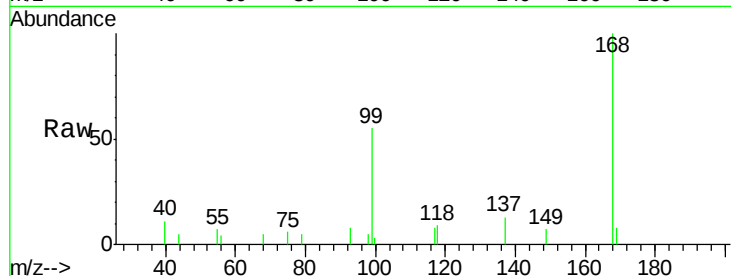
SB-09-1.0-1.5

Tot Ion:168 Resp: 28361

Ion Ratio Lower Upper

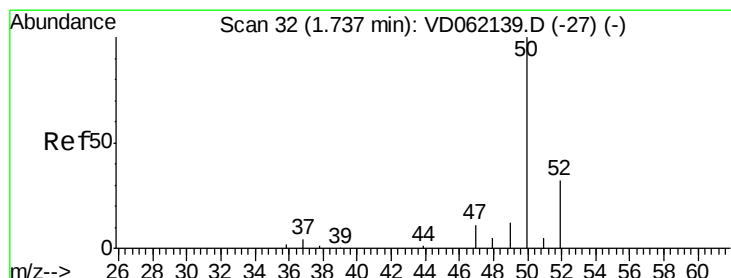
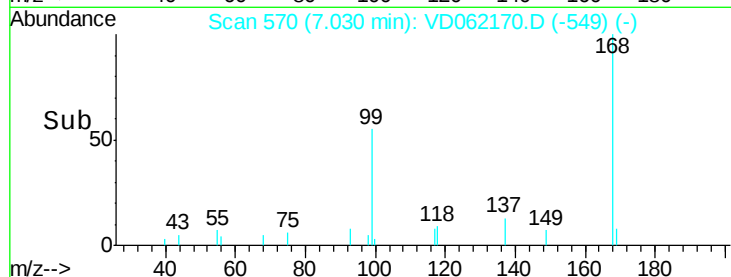
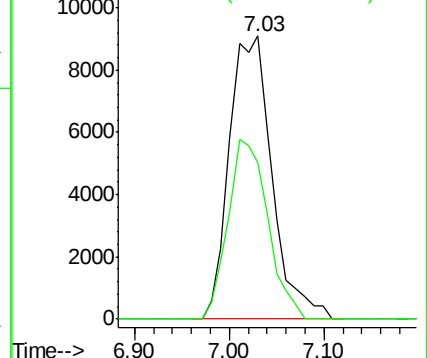
168 100

99 55.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.036 ug/l

RT: 1.78 min Scan# 36

Delta R.T. 0.04 min

Lab File: VD062170.D

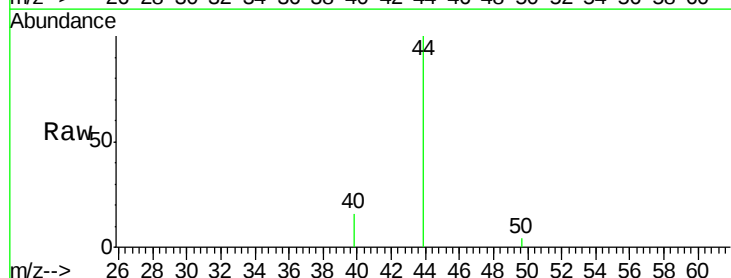
Acq: 8 May 2019 13:26

Tgt Ion: 50 Resp: 203

Ion Ratio Lower Upper

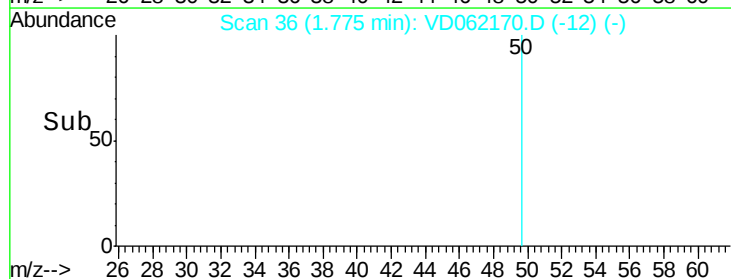
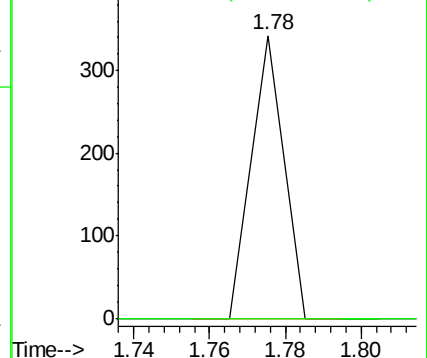
50 100

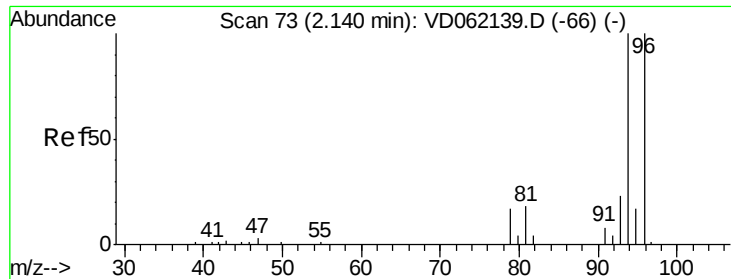
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 7.267 ug/l

RT: 2.12 min Scan# 71

Delta R.T. -0.02 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

Instrument :

MSVOA_D

ClientSampleId :

SB-09-1.0-1.5

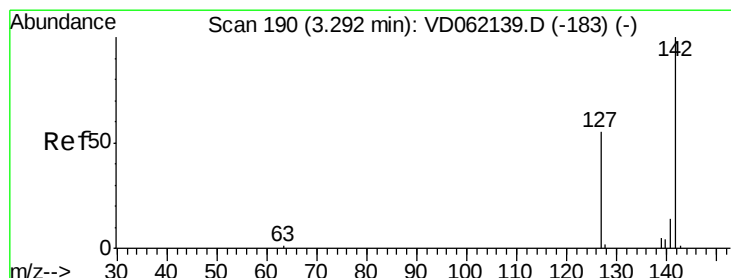
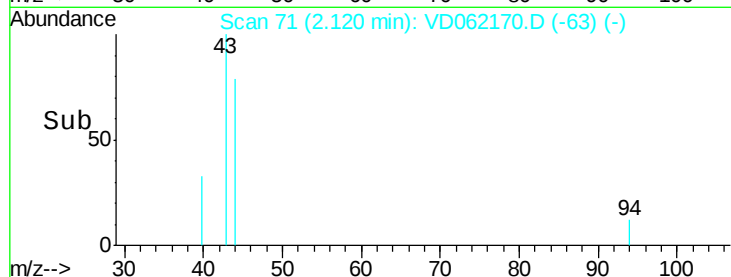
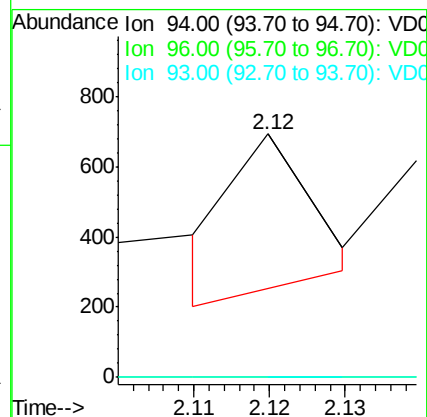
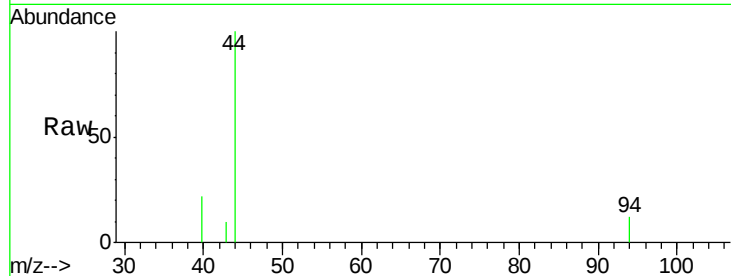
Tot Ion: 94 Resp: 328

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



#10

Methyl Iodide

Concen: 4.671 ug/l

RT: 3.31 min Scan# 192

Delta R.T. 0.02 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

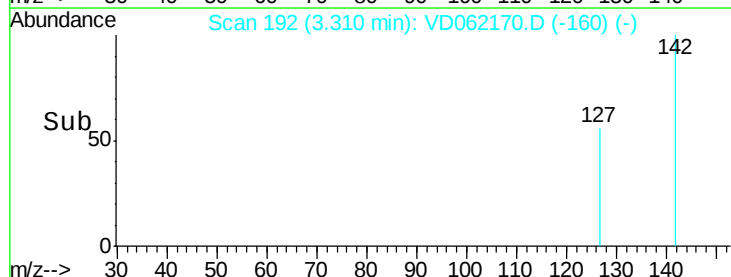
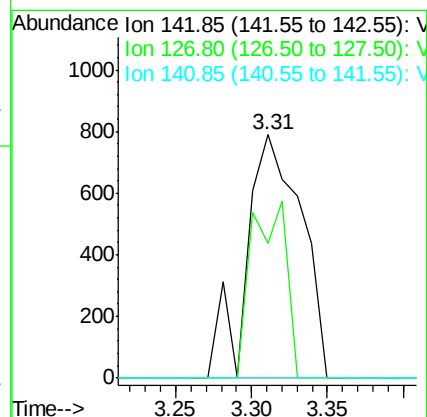
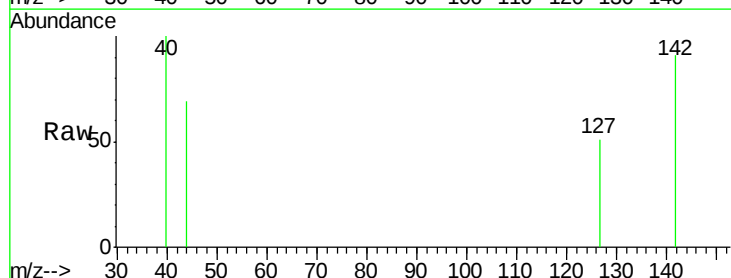
Tgt Ion: 142 Resp: 2000

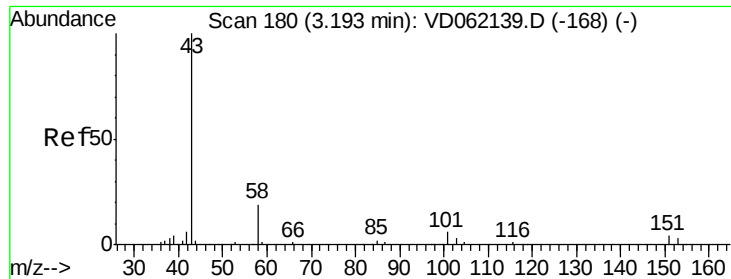
Ion Ratio Lower Upper

142 100

127 55.6 38.8 58.2

141 0.0 11.4 17.0#





#16

Acetone

Concen: 28.387 ug/l

RT: 3.21 min Scan# 182

Delta R.T. 0.02 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

Instrument :

MSVOA_D

ClientSampleId :

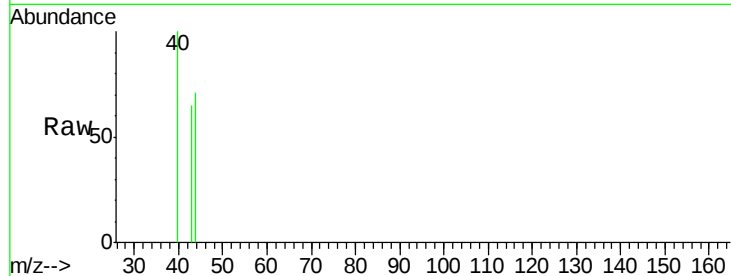
SB-09-1.0-1.5

Tot Ion: 43 Resp: 1569

Ion Ratio Lower Upper

43 100

58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

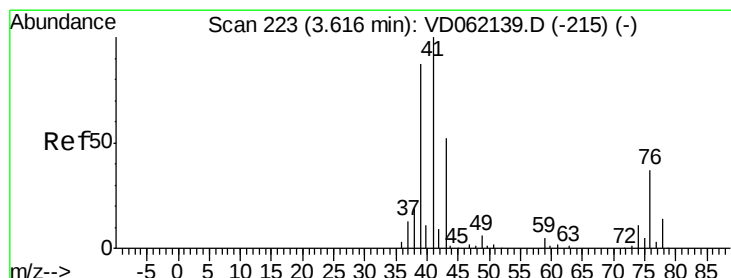
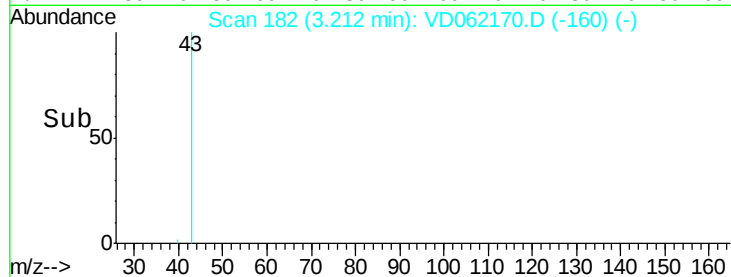
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 1.995 ug/l

RT: 3.69 min Scan# 231

Delta R.T. 0.08 min

Lab File: VD062170.D

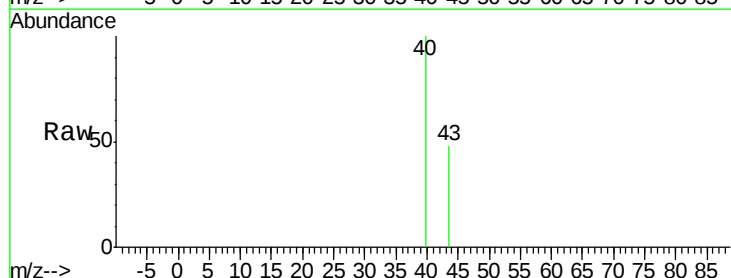
Acq: 8 May 2019 13:26

Tgt Ion: 43 Resp: 226

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

3.69

400

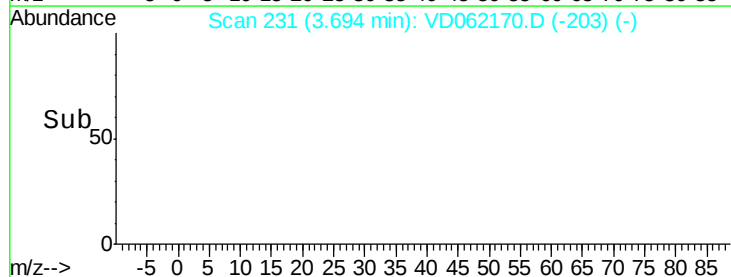
300

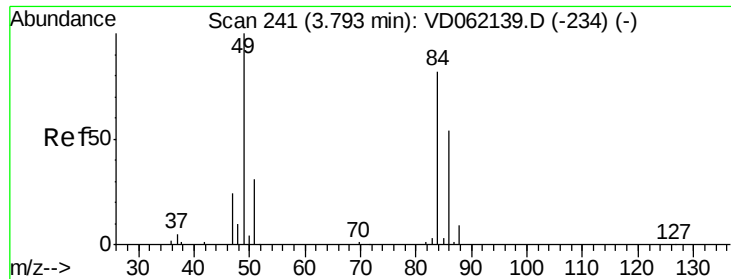
200

100

0

Time-->

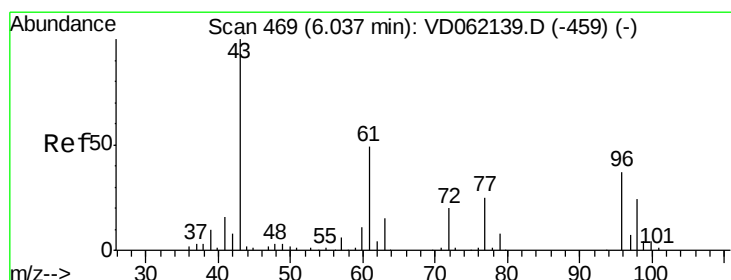
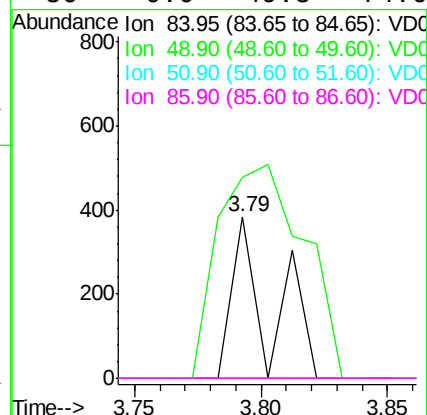
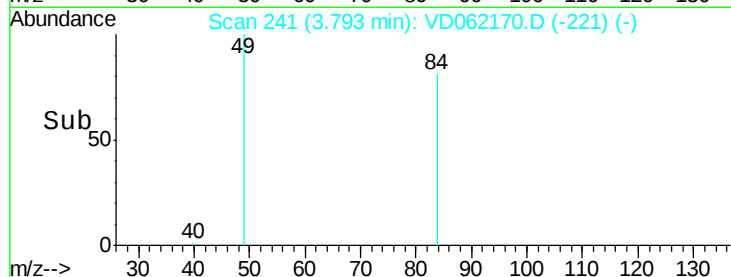
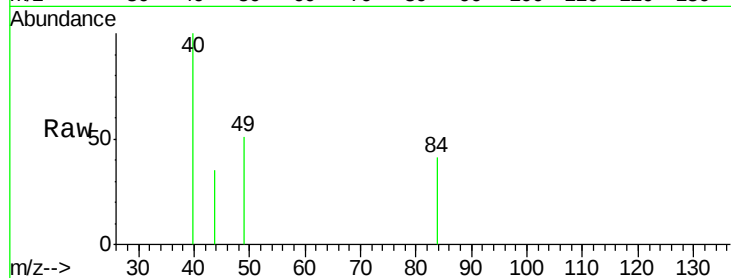




#20
Methylene Chloride
Concen: 1.764 ug/l
RT: 3.79 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD062170.D
Acq: 8 May 2019 13:26

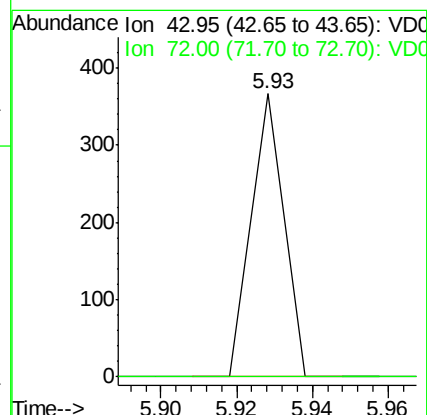
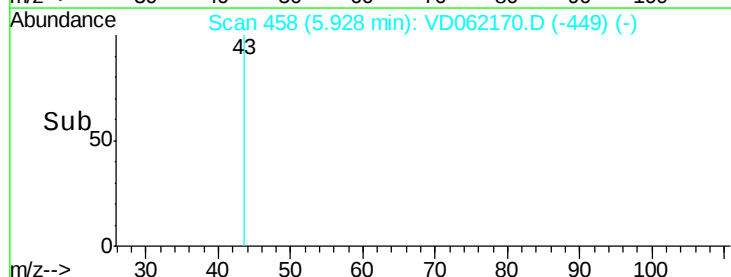
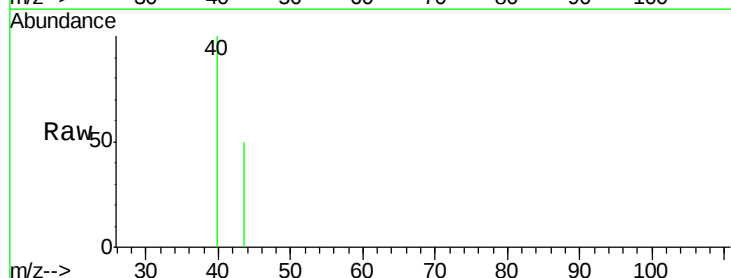
Instrument :
MSVOA_D
ClientSampleId :
SB-09-1.0-1.5

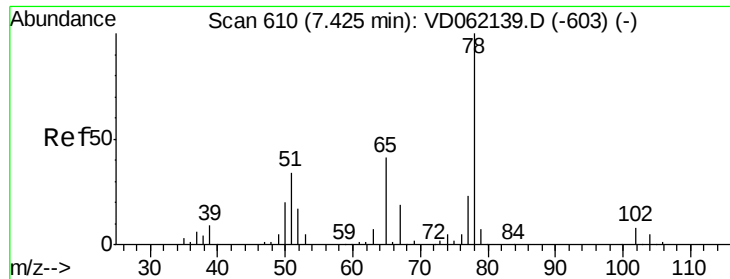
Tot Ion: 84 Resp: 407
Ion Ratio Lower Upper
84 100
49 124.2 94.0 141.0
51 0.0 29.0 43.4#
86 0.0 49.8 74.6#



#25
2-Butanone
Concen: 3.599 ug/l
RT: 5.93 min Scan# 458
Delta R.T. -0.11 min
Lab File: VD062170.D
Acq: 8 May 2019 13:26

Tgt Ion: 43 Resp: 217
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#





#33

1,2-Dichloroethane-d4

Concen: 83.669 ug/l

RT: 7.42 min Scan# 610

Delta R.T. -0.00 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

Instrument :

MSVOA_D

ClientSampleId :

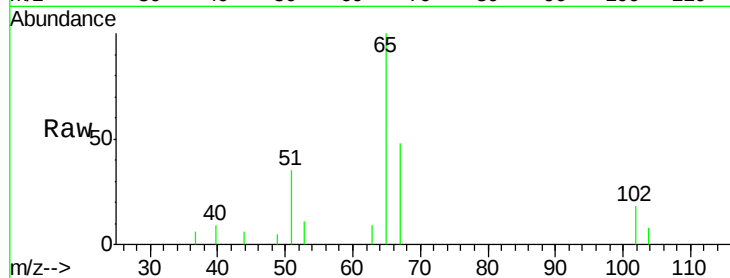
SB-09-1.0-1.5

Tot Ion: 65 Resp: 22052

Ion Ratio Lower Upper

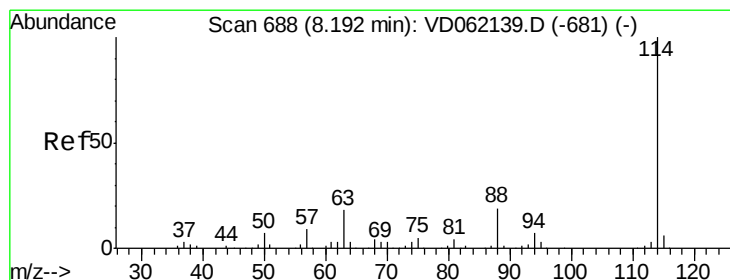
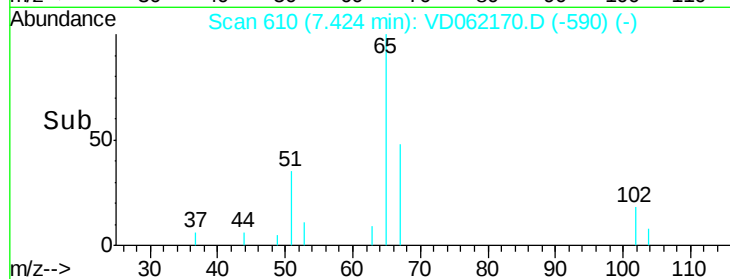
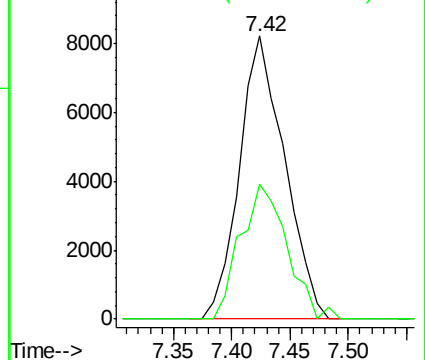
65 100

67 47.5 0.0 98.0



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: 8.19 min Scan# 688

Delta R.T. -0.00 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

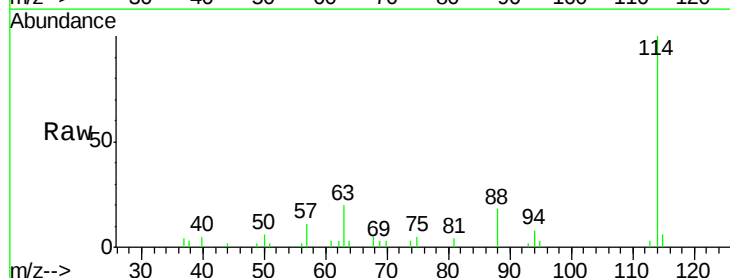
Tgt Ion: 114 Resp: 46775

Ion Ratio Lower Upper

114 100

63 20.1 0.0 32.4

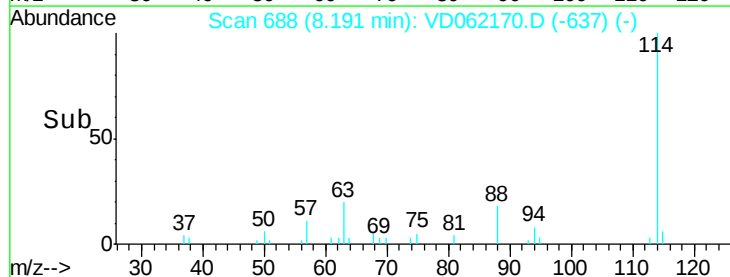
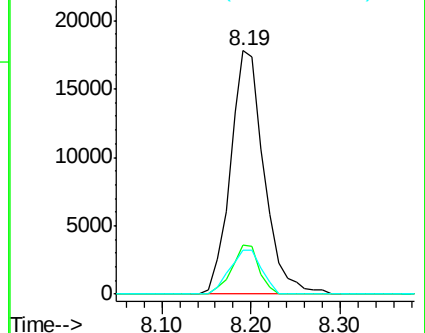
88 18.1 0.0 33.6

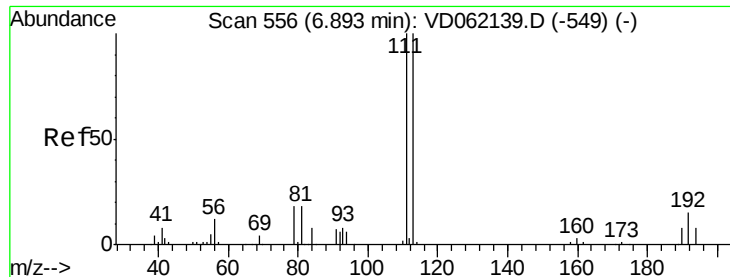


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 61.454 ug/l

RT: 6.90 min Scan# 557

Delta R.T. 0.01 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

Instrument :

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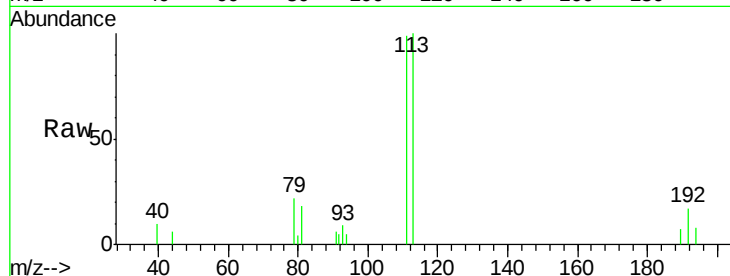
Tot Ion:113 Resp: 23850

Ion Ratio Lower Upper

113 100

111 98.5 78.5 117.7

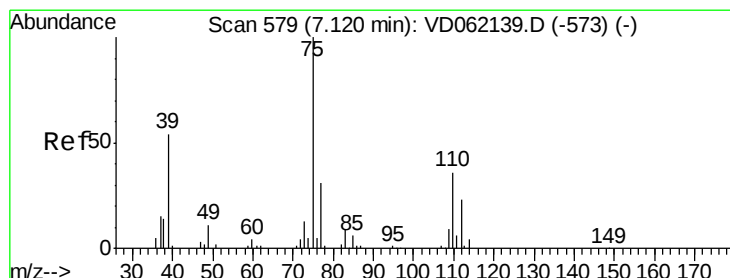
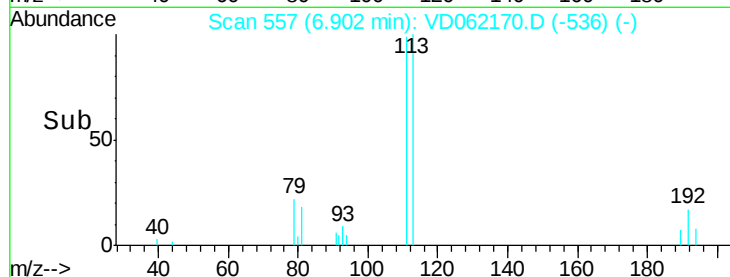
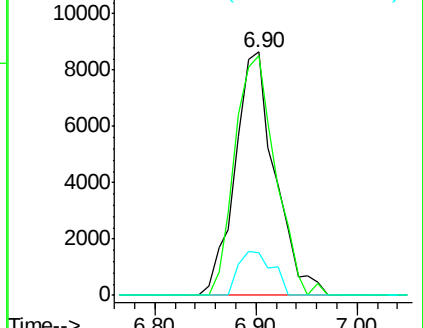
192 17.4 13.0 19.4



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: 4.229 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.10 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

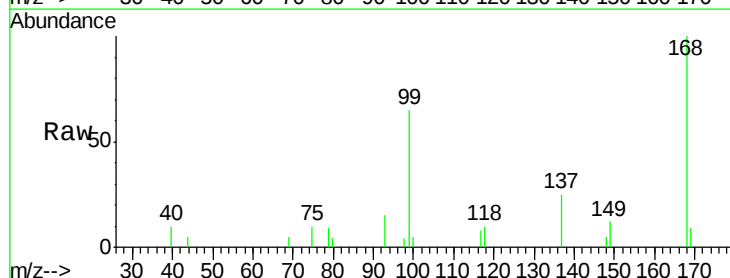
Tgt Ion: 75 Resp: 1622

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

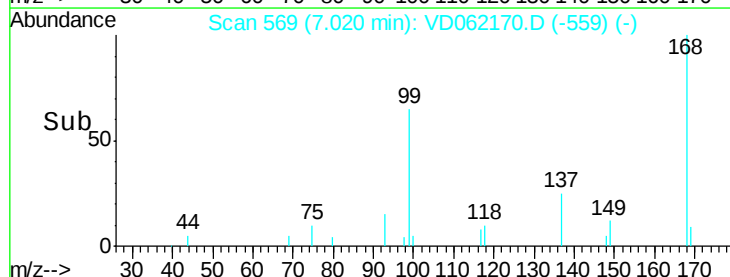
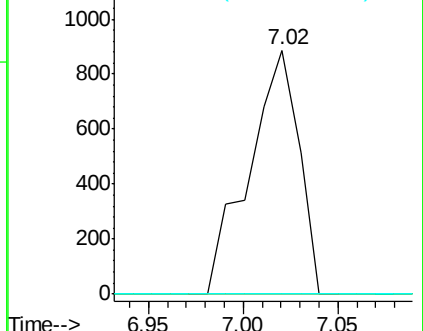
77 0.0 25.6 38.4#

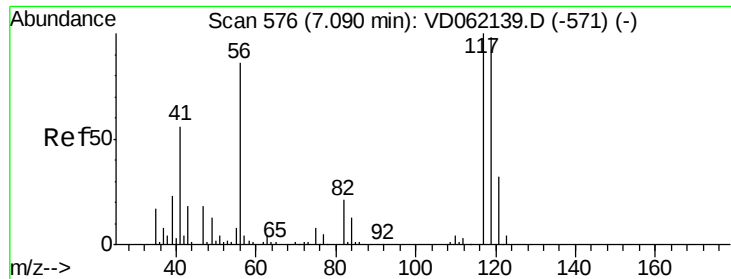


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 4.109 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.08 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

Instrument :

MSVOA_D

ClientSampleId :

SB-09-1.0-1.5

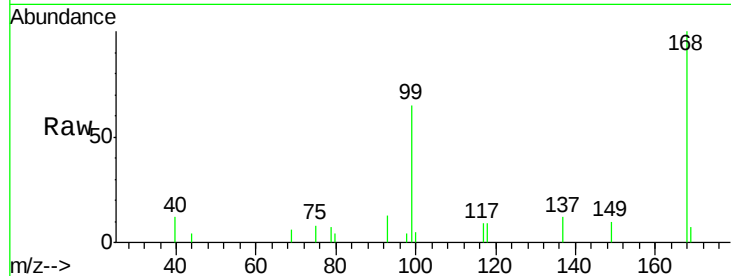
Tot Ion:117 Resp: 2181

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

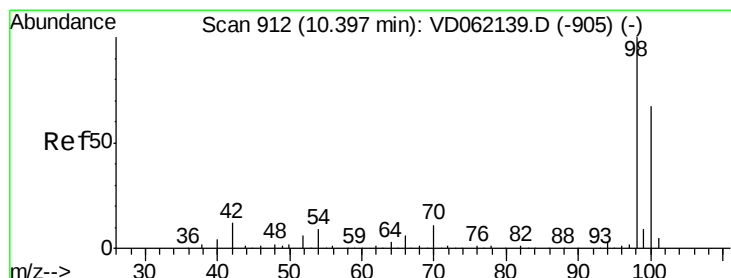
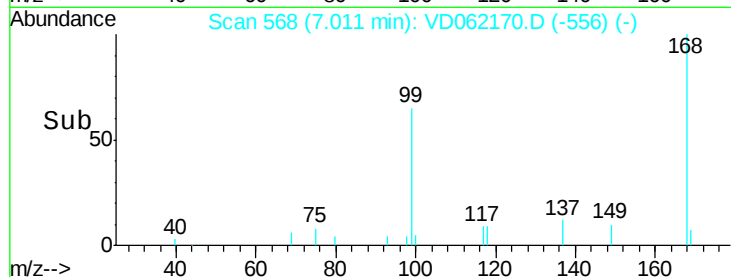
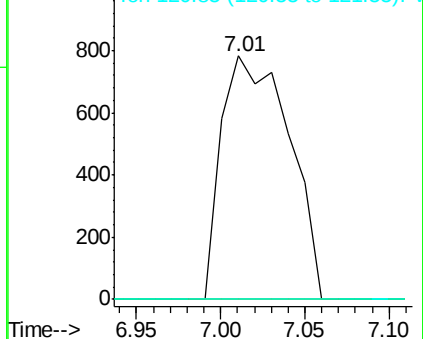
121 0.0 25.9 38.9#



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: 34.310 ug/l

RT: 10.39 min Scan# 911

Delta R.T. -0.01 min

Lab File: VD062170.D

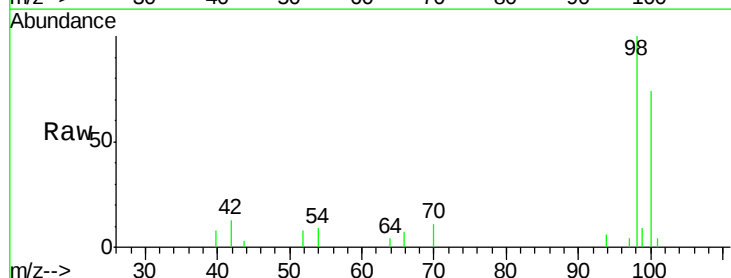
Acq: 8 May 2019 13:26

Tgt Ion: 98 Resp: 32105

Ion Ratio Lower Upper

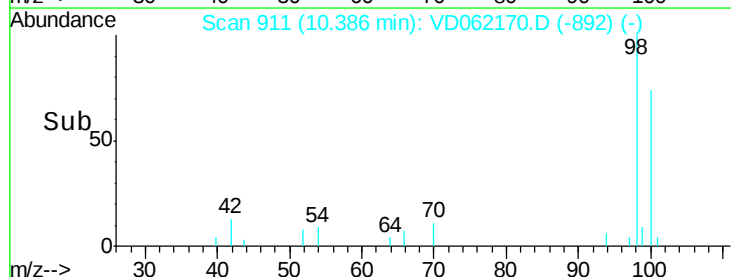
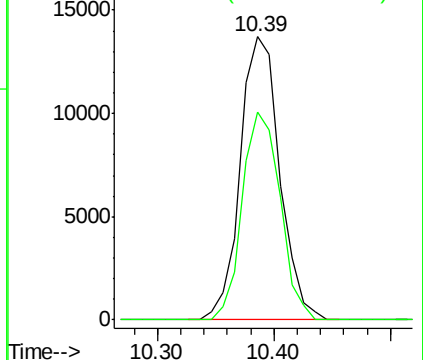
98 100

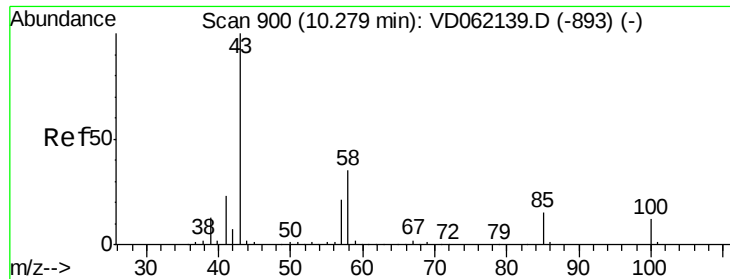
100 73.6 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.369 ug/l

RT: 10.38 min Scan# 910

Delta R.T. 0.10 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

Instrument :

MSVOA_D

ClientSampleId :

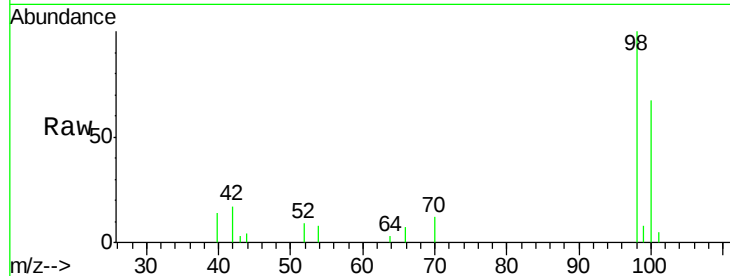
SB-09-1.0-1.5

Tot Ion: 43 Resp: 203

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

10.38

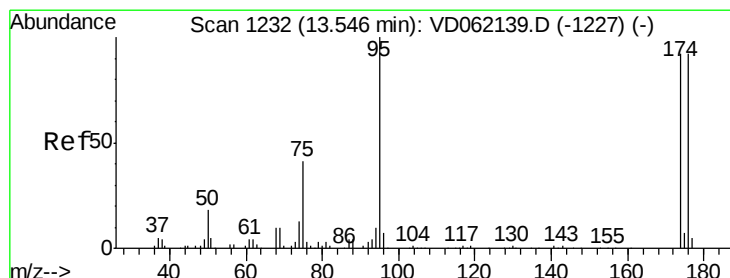
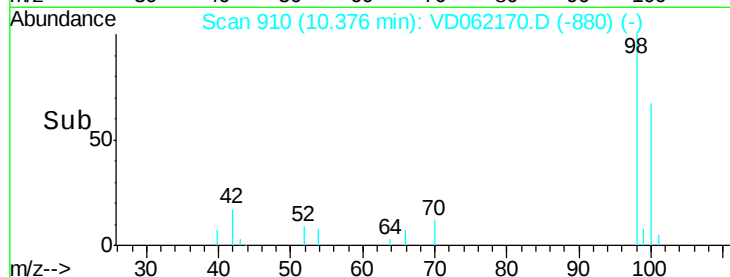
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 28.542 ug/l

RT: 13.54 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

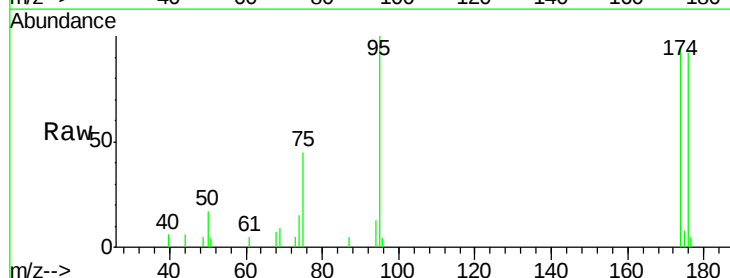
Tgt Ion: 95 Resp: 10725

Ion Ratio Lower Upper

95 100

174 95.0 0.0 181.8

176 92.1 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

10000

8000

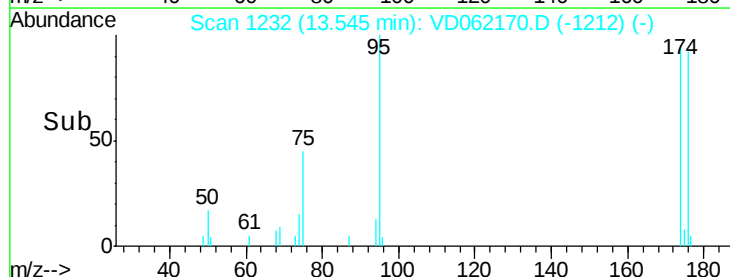
6000

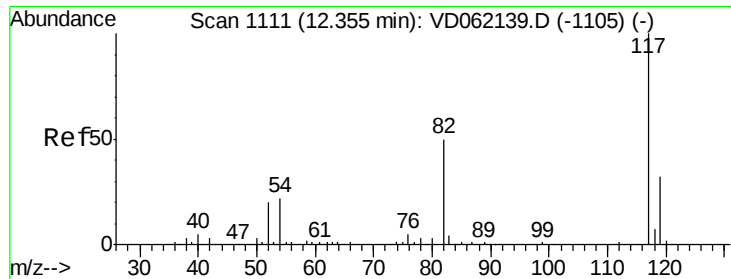
4000

2000

0

Time-->

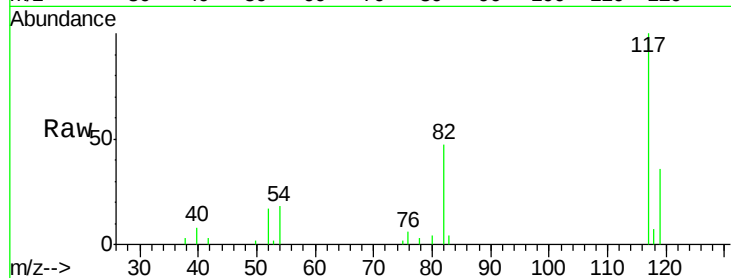




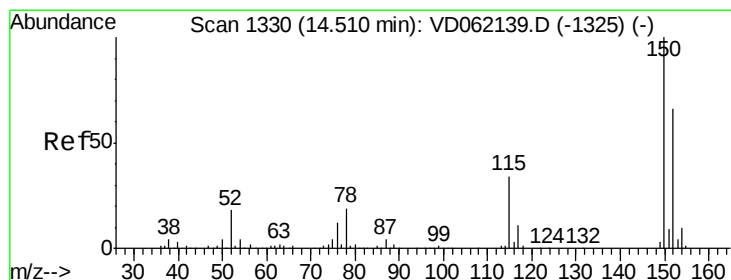
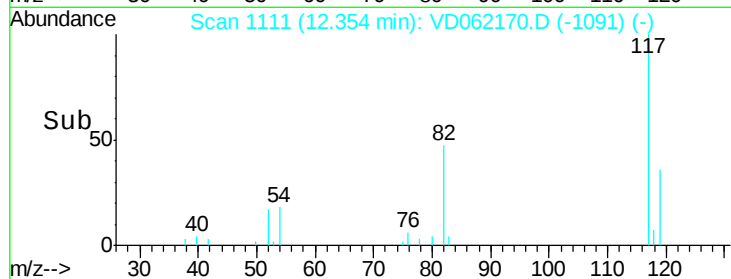
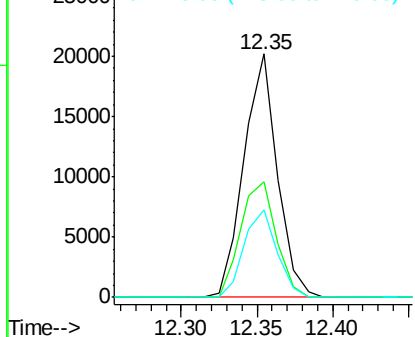
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD062170.D
Acq: 8 May 2019 13:26

Instrument :
MSVOA_D
ClientSampleId :
SB-09-1.0-1.5

Tot Ion:117 Resp: 30966
Ion Ratio Lower Upper
117 100
82 47.5 36.2 54.2
119 35.7 26.2 39.4

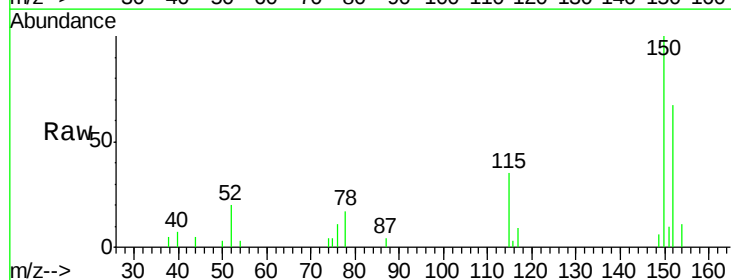


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

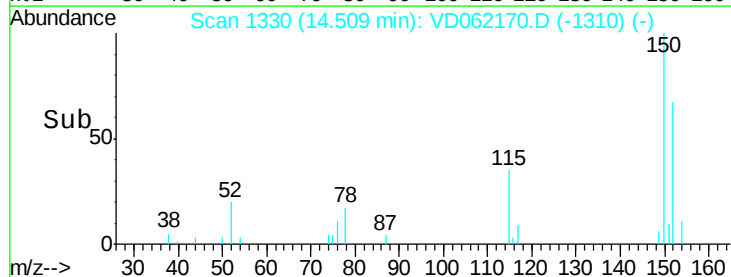
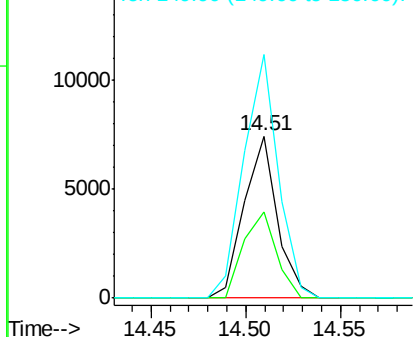


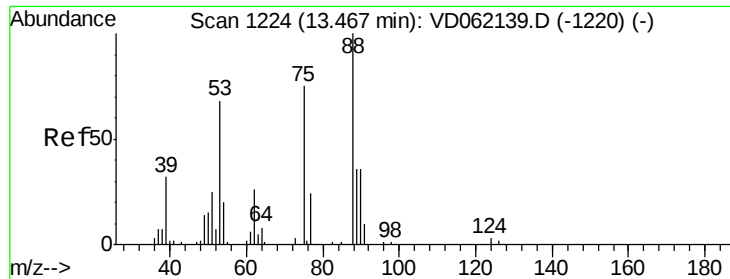
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD062170.D
Acq: 8 May 2019 13:26

Tgt Ion:152 Resp: 9010
Ion Ratio Lower Upper
152 100
115 53.0 30.9 92.7
150 150.3 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: 144.467 ug/l

RT: 13.54 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

Instrument :

MSVOA_D

ClientSampleId :

SB-09-1.0-1.5

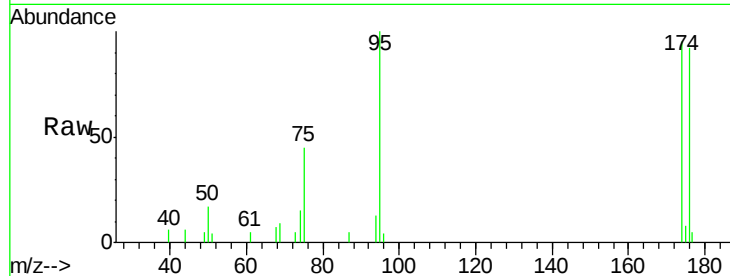
Tot Ion: 75 Resp: 4367

Ion Ratio Lower Upper

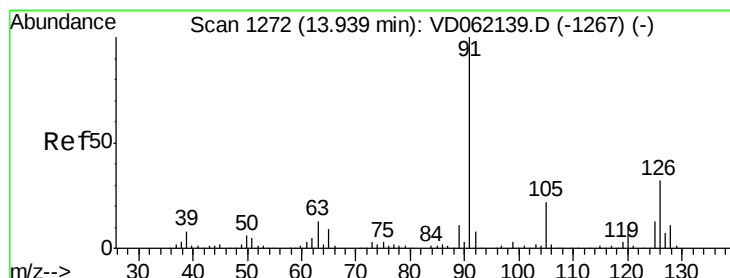
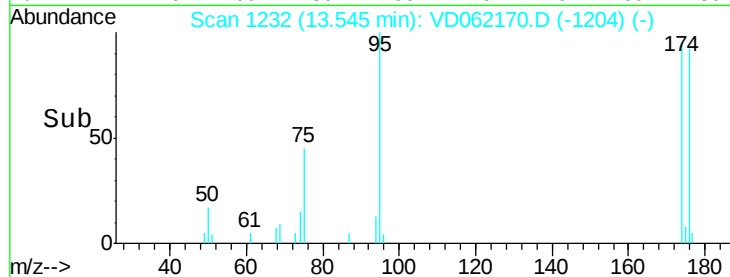
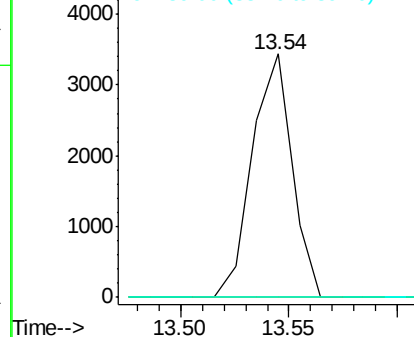
75 100

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



#82

4-Chlorotoluene

Concen: 1.020 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD062170.D

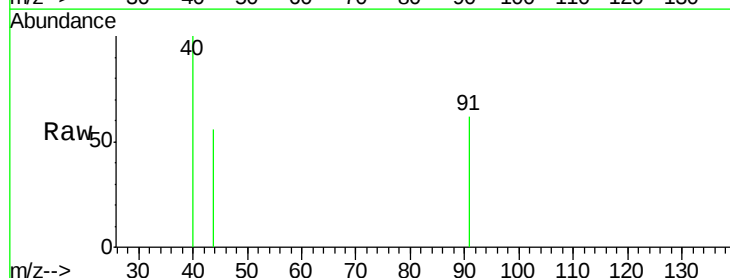
Acq: 8 May 2019 13:26

Tgt Ion: 91 Resp: 443

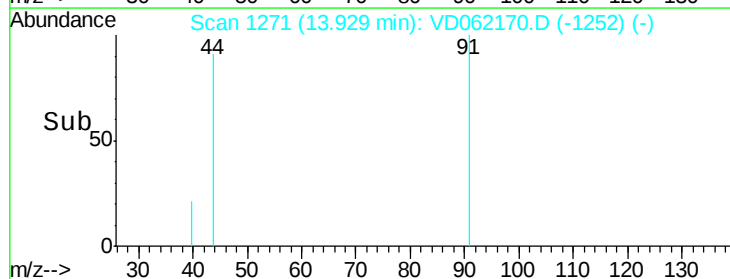
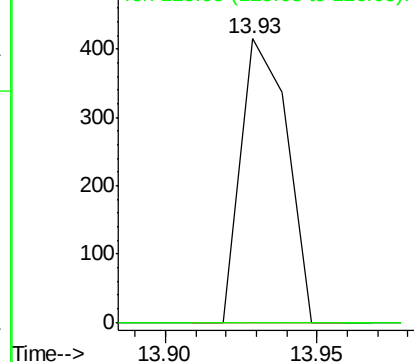
Ion Ratio Lower Upper

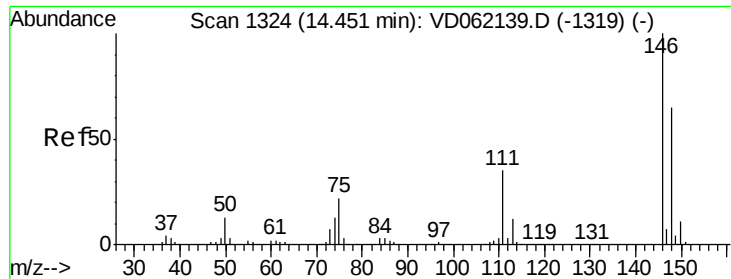
91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

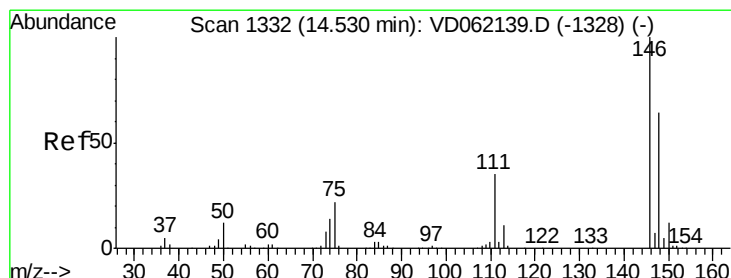
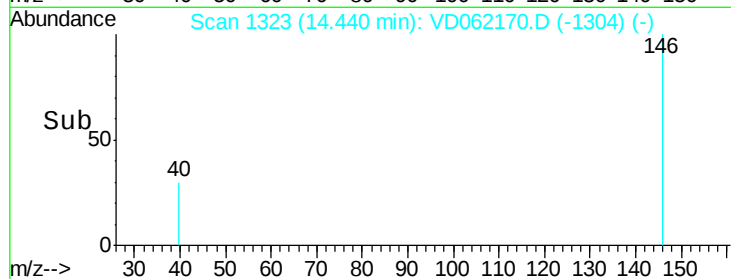
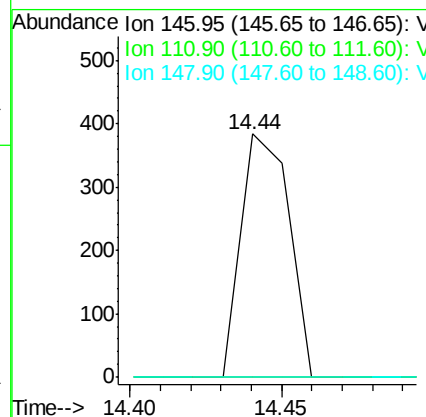
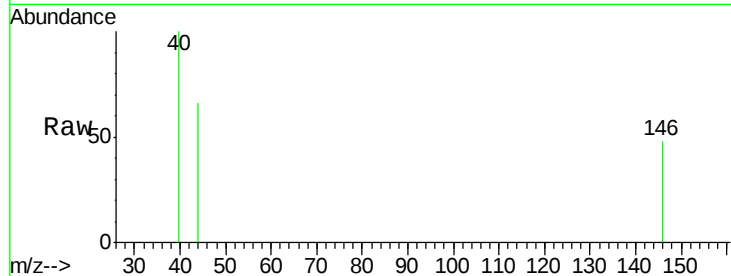




#87
 1,3-Dichlorobenzene
 Concen: 1.542 ug/l
 RT: 14.44 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD062170.D
 Acq: 8 May 2019 13:26

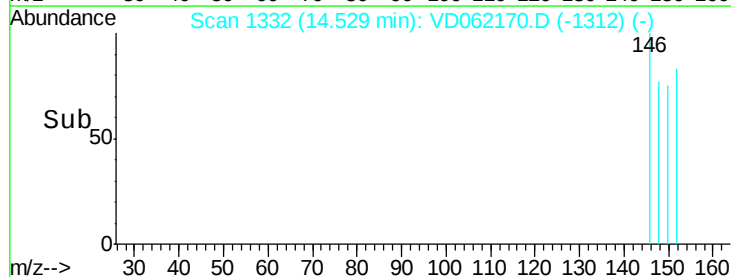
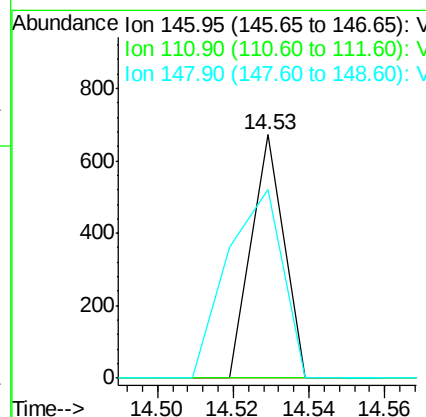
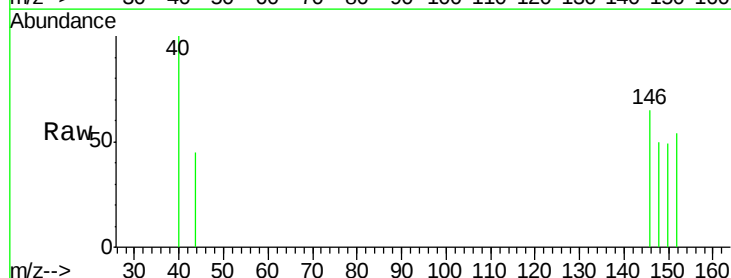
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-09-1.0-1.5

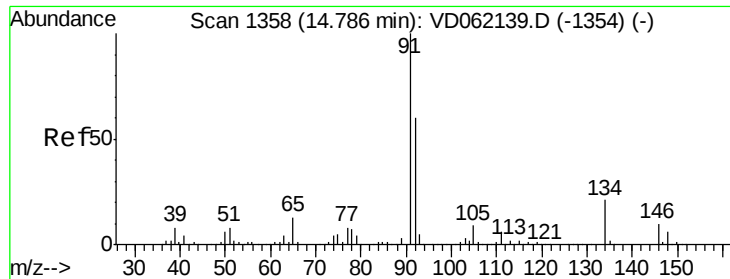
Tot Ion:146 Resp: 426
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.0 60.0#
 148 0.0 31.8 95.4#



#88
 1,4-Dichlorobenzene
 Concen: 1.463 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD062170.D
 Acq: 8 May 2019 13:26

Tgt Ion:146 Resp: 397
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.2 60.5#
 148 77.2 32.0 96.2





#89

n-Butylbenzene

Concen: 1.193 ug/l

RT: 14.79 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

Instrument :

MSVOA_D

ClientSampleId :

SB-09-1.0-1.5

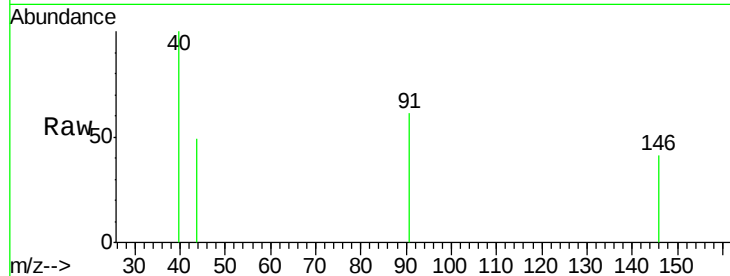
Tot Ion: 91 Resp: 536

Ion Ratio Lower Upper

91 100

92 0.0 30.3 91.0#

134 0.0 14.5 43.6#

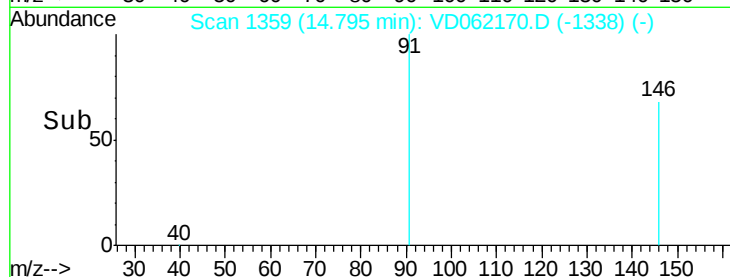


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V

Time-->

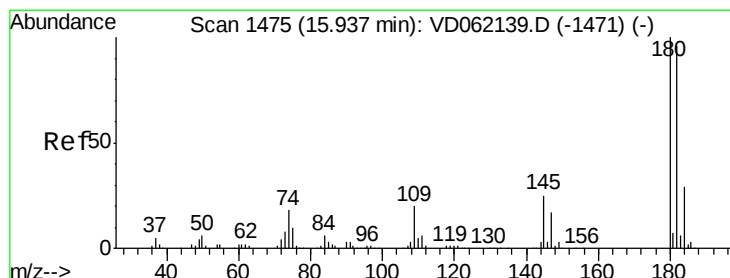


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 1.860 ug/l

RT: 15.94 min Scan# 1475

Delta R.T. -0.00 min

Lab File: VD062170.D

Acq: 8 May 2019 13:26

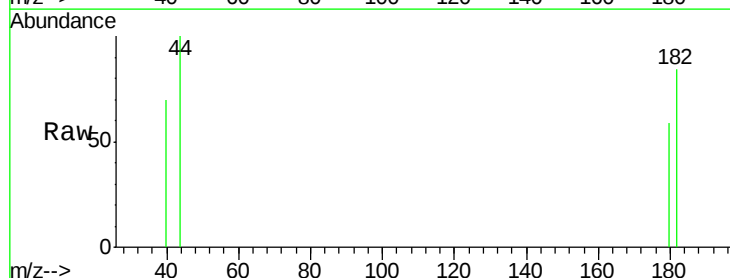
Tgt Ion: 180 Resp: 308

Ion Ratio Lower Upper

180 100

182 141.7 49.3 147.8

145 0.0 16.2 48.6#

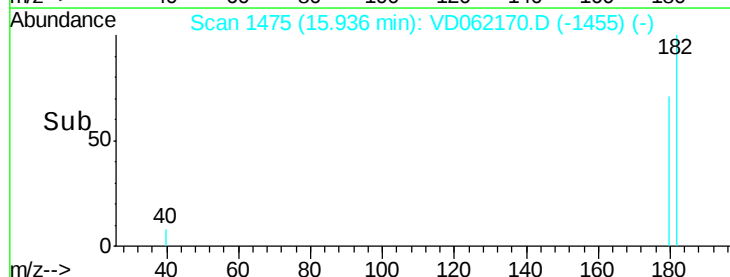


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

Time-->

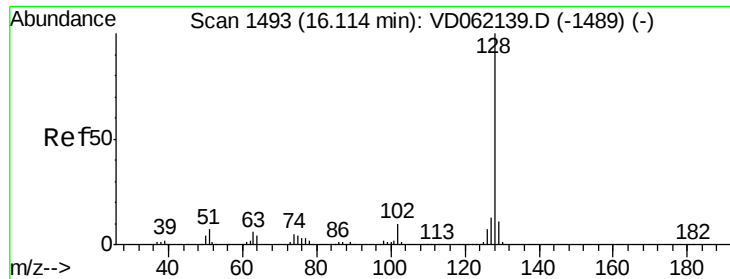


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

Time-->



#95

Naphthalene

Concen: 5.014 ug/l

RT: 16.11 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD062170.D

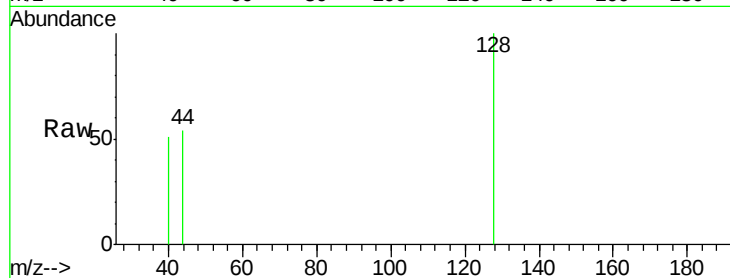
Acq: 8 May 2019 13:26

Instrument :

MSVOA_D

ClientSampleId :

SB-09-1.0-1.5



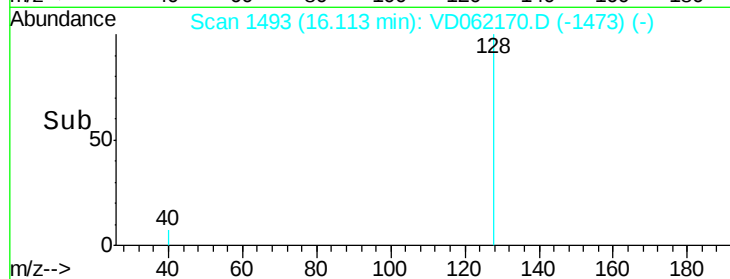
Tot Ion:128 Resp: 1159

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

