

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061219\
 Data File : VD062678.D
 Acq On : 12 Jun 2019 17:03
 Operator : VA/AP
 Sample : K3273-19RE
 Misc : 4.12g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 13 07:25:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	528758	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	701129	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	415717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	133926	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	310191	40.65	ug/l	0.00
Spiked Amount			Recovery	=	81.30%	
35) Dibromofluoromethane	6.92	113	311455	42.12	ug/l	0.00
Spiked Amount			Recovery	=	84.24%	
50) Toluene-d8	10.40	98	457000	29.38	ug/l	0.00
Spiked Amount			Recovery	=	58.76%	
62) 4-Bromofluorobenzene	13.55	95	140642	19.38	ug/l	0.00
Spiked Amount			Recovery	=	38.76%	

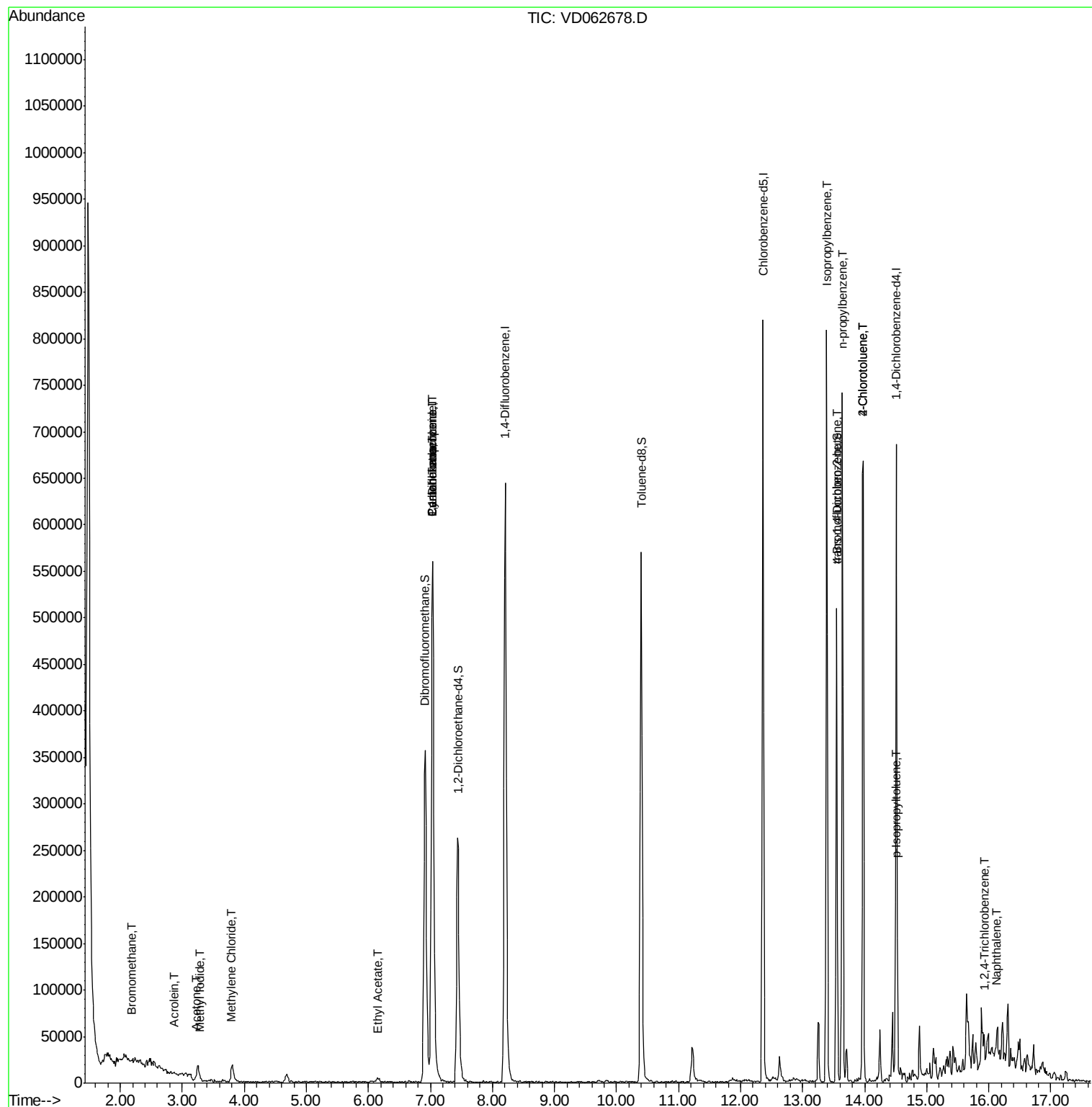
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	752	Below Cal	#	42
5) Bromomethane	2.18	94	2784	1.022	ug/l #	11
10) Methyl Iodide	3.29	142	227	4.031	ug/l #	24
13) Acrolein	2.87	56	217	2.151	ug/l #	12
16) Acetone	3.22	43	7949	5.689	ug/l #	79
20) Methylene Chloride	3.79	84	12954	2.030	ug/l #	62
31) Cyclohexane	7.04	56	12902	2.143	ug/l #	3
36) 1,1-Dichloropropene	7.04	75	42017	5.236	ug/l #	56
37) Ethyl Acetate	6.15	43	553	1.359	ug/l #	74
38) Carbon Tetrachloride	7.04	117	53888	4.249	ug/l #	18
73) Isopropylbenzene	13.39	105	28673	3.037	ug/l #	67
78) n-propylbenzene	13.64	91	69551	6.019	ug/l #	57
79) 2-Chlorotoluene	13.98	91	68931	10.188	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.54	75	72450	127.951	ug/l #	1
82) 4-Chlorotoluene	13.98	91	71498	8.837	ug/l #	43
86) p-Isopropyltoluene	14.49	119	10315	1.098	ug/l	93
93) 1,2,4-Trichlorobenzene	15.93	180	643	3.741	ug/l #	1
95) Naphthalene	16.12	128	3425	4.106	ug/l #	61

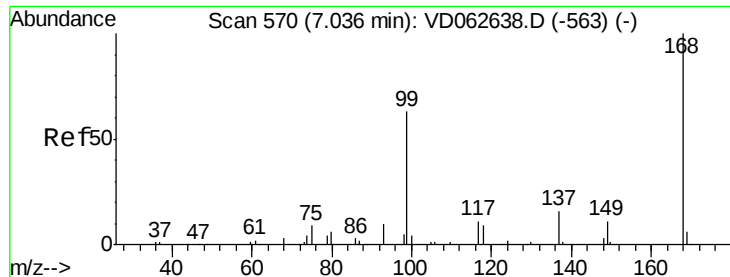
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

Instrument :

MSVOA_D

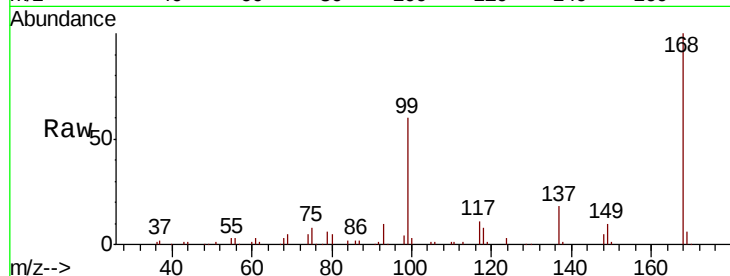
ClientSampled :

Tot Ion:168 Resp: 528758

Ion Ratio Lower Upper

168 100

99 60.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

200000

150000

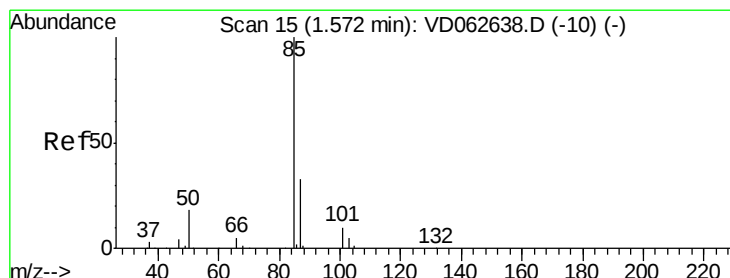
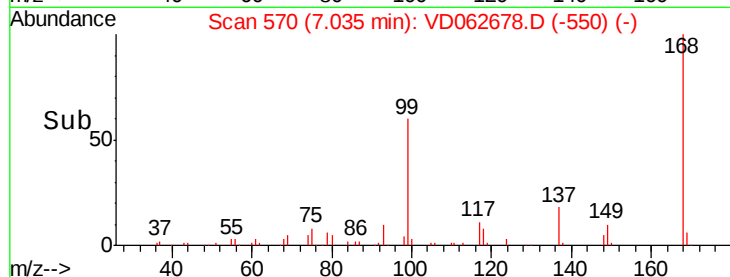
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062678.D

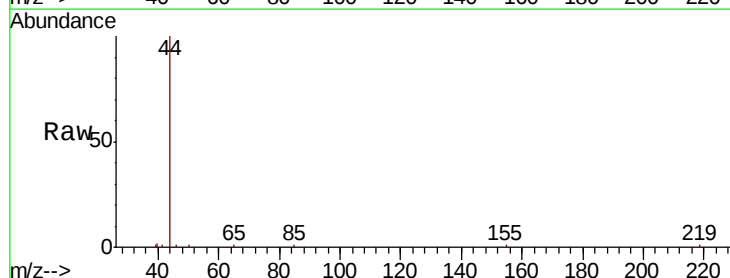
Acq: 12 Jun 2019 17:03

Tgt Ion: 85 Resp: 752

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

600

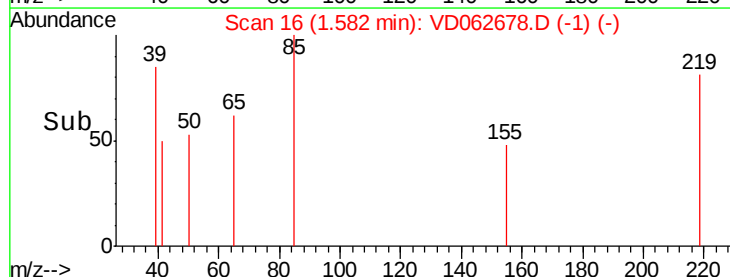
400

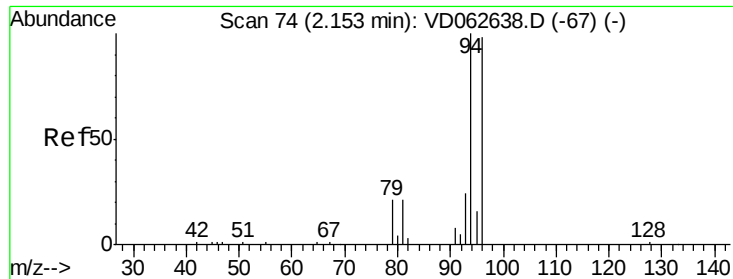
200

0

1.55 1.60 1.65

Time-->





#5

Bromomethane

Concen: 1.022 ug/l

RT: 2.18 min Scan# 77

Delta R.T. 0.03 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

Instrument :

MSVOA_D

ClientSampleId :

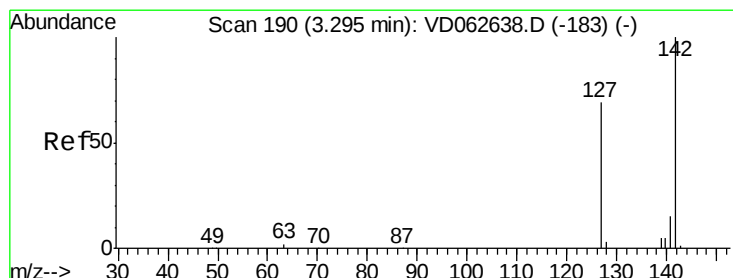
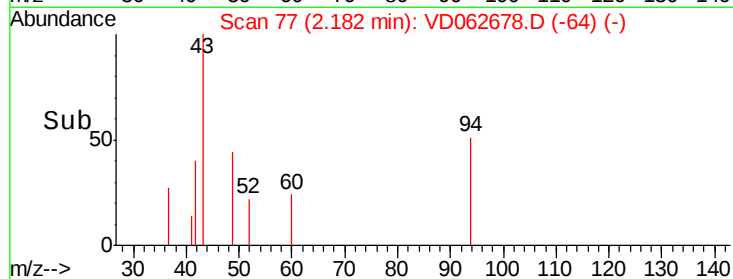
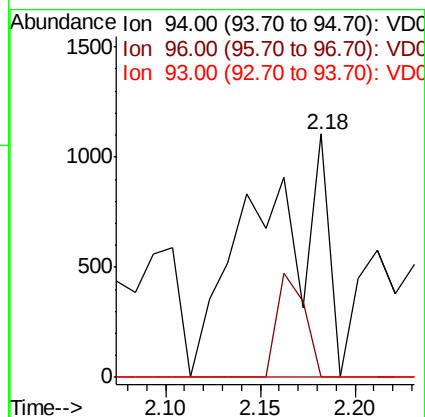
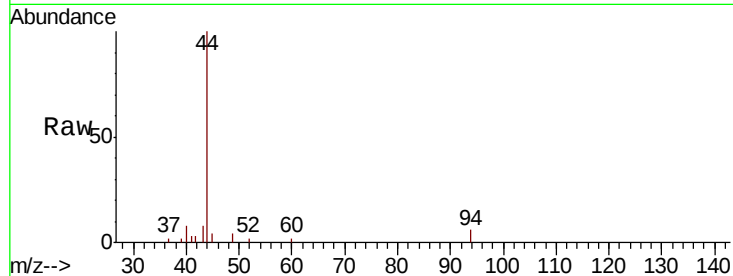
Tot Ion: 94 Resp: 2784

Ion Ratio Lower Upper

94 100

96 0.0 78.1 117.1#

93 0.0 19.6 29.4#



#10

Methyl Iodide

Concen: 4.031 ug/l

RT: 3.29 min Scan# 190

Delta R.T. 0.00 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

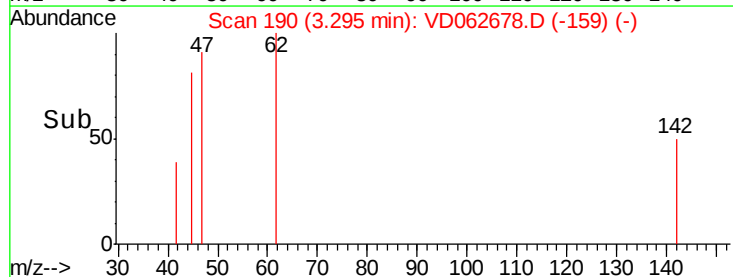
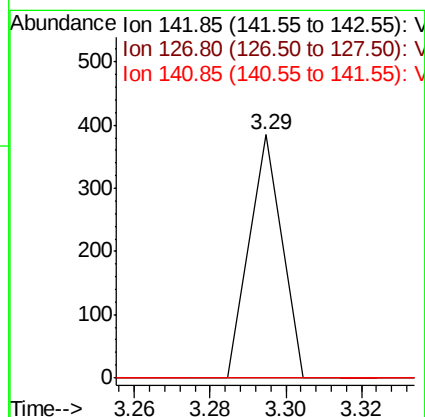
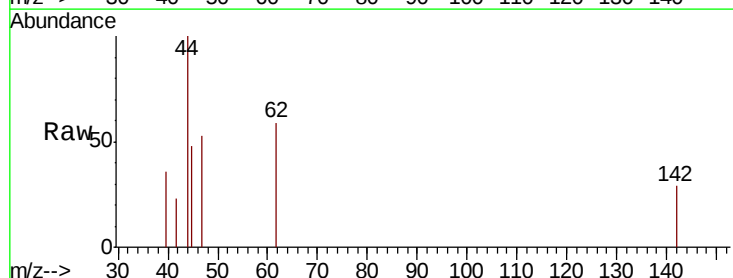
Tgt Ion: 142 Resp: 227

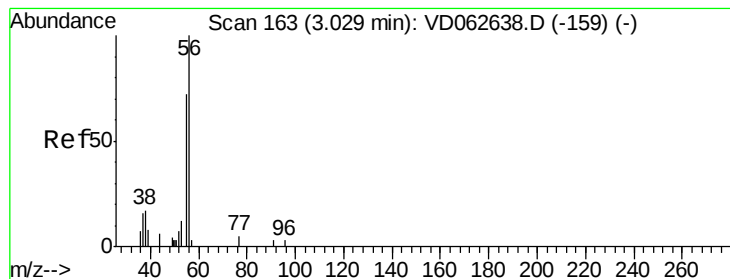
Ion Ratio Lower Upper

142 100

127 0.0 55.2 82.8#

141 0.0 12.1 18.1#





#13

Acrolein

Concen: 2.151 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.16 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

Instrument :

MSVOA_D

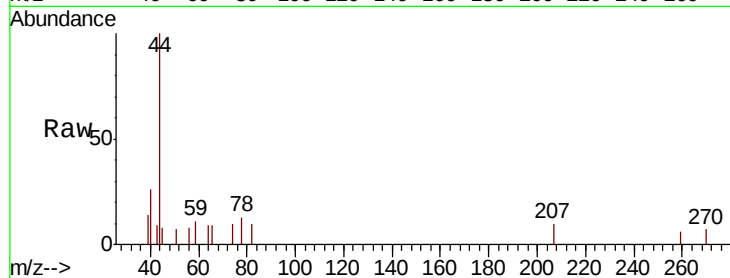
ClientSampleId :

Tot Ion: 56 Resp: 217

Ion Ratio Lower Upper

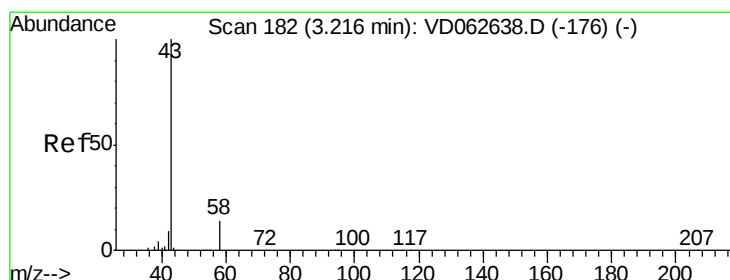
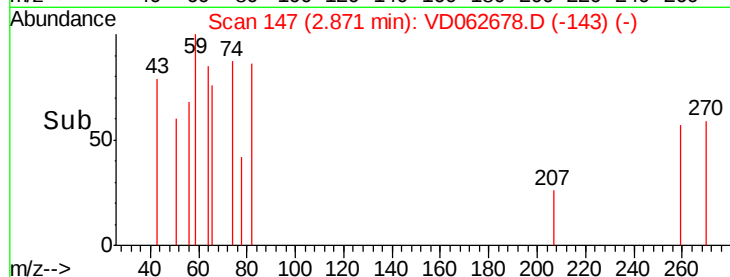
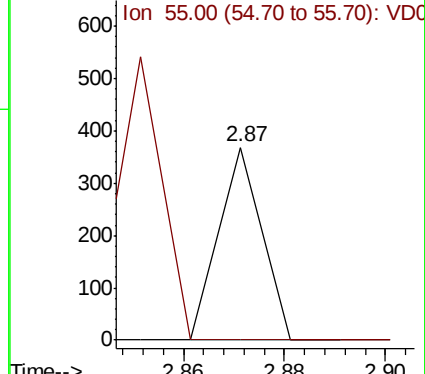
56 100

55 0.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 5.689 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD062678.D

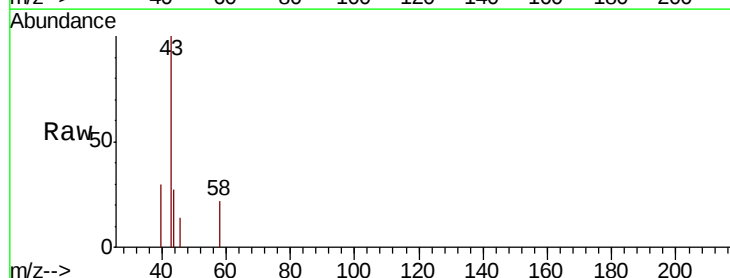
Acq: 12 Jun 2019 17:03

Tgt Ion: 43 Resp: 7949

Ion Ratio Lower Upper

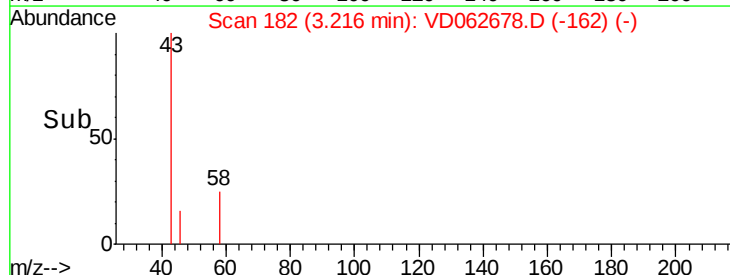
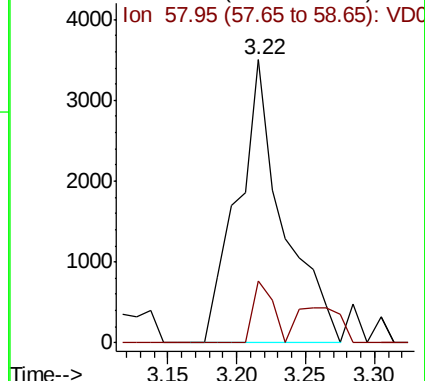
43 100

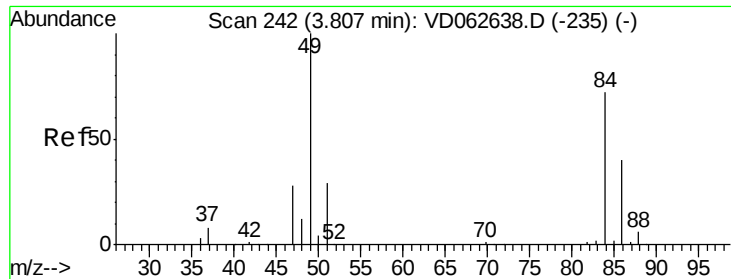
58 21.9 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

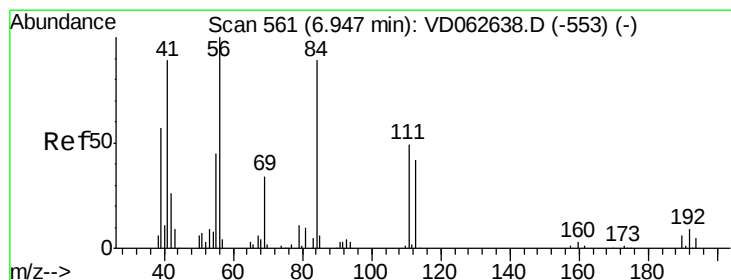
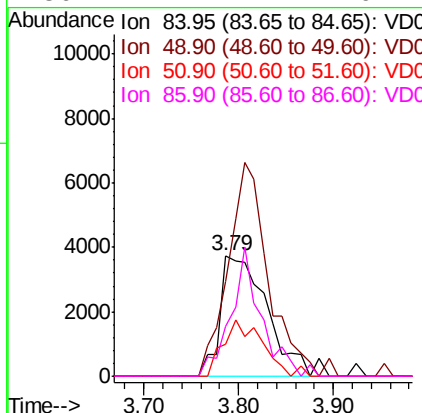
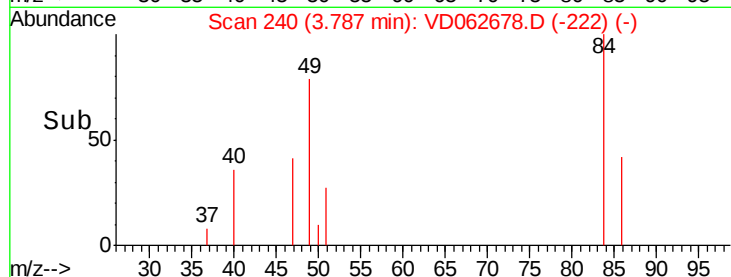
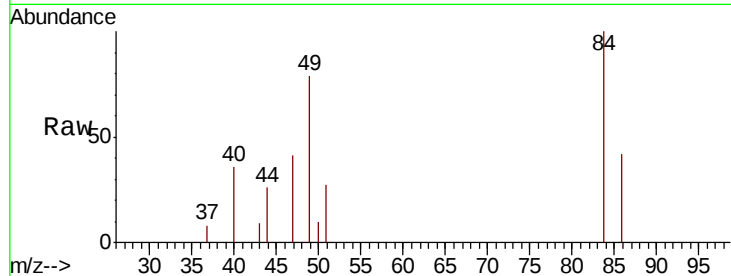




#20
Methylene Chloride
Concen: 2.030 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.02 min
Lab File: VD062678.D
Acq: 12 Jun 2019 17:03

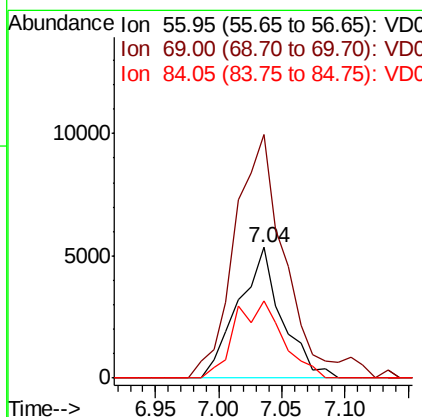
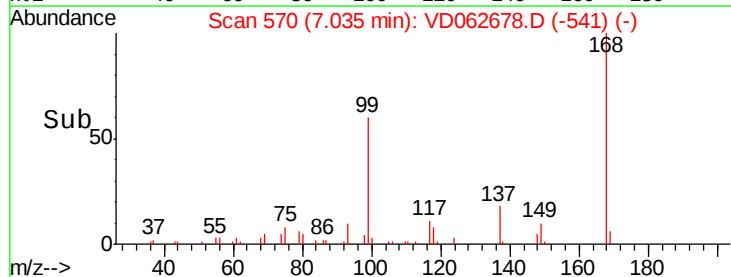
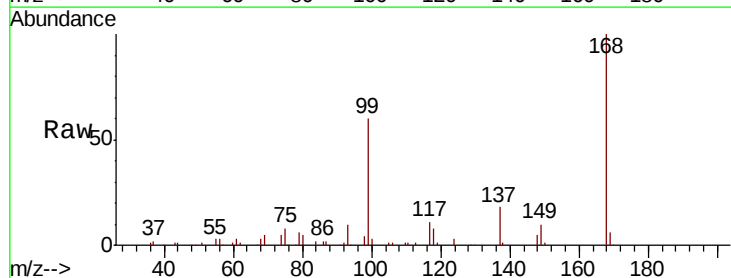
Instrument :
MSVOA_D
ClientSampleID :

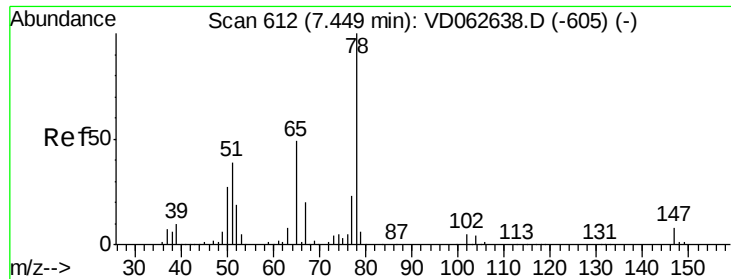
Tot Ion: 84 Resp: 12954
Ion Ratio Lower Upper
84 100
49 78.8 111.2 166.8#
51 26.9 31.9 47.9#
86 41.7 44.7 67.1#



#31
Cyclohexane
Concen: 2.143 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.09 min
Lab File: VD062678.D
Acq: 12 Jun 2019 17:03

Tgt Ion: 56 Resp: 12902
Ion Ratio Lower Upper
56 100
69 186.8 26.8 40.2#
84 59.1 73.9 110.9#





#33

1,2-Dichloroethane-d4

Concen: 40.654 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

Instrument :

MSVOA_D

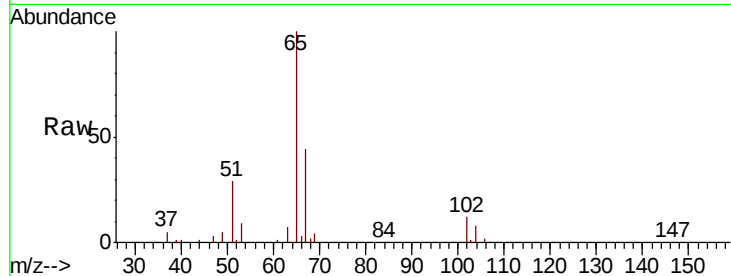
ClientSampleId :

Tot Ion: 65 Resp: 310191

Ion Ratio Lower Upper

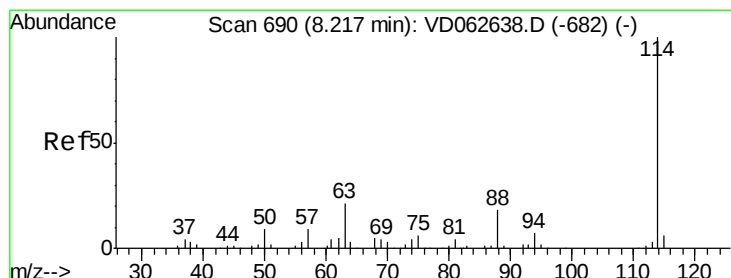
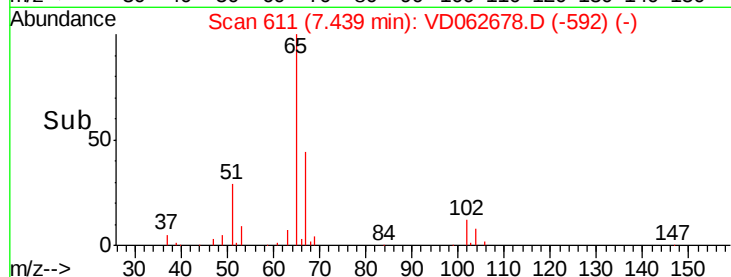
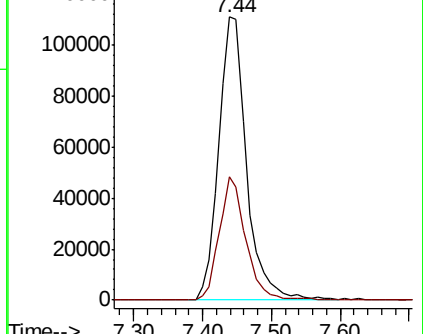
65 100

67 43.6 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

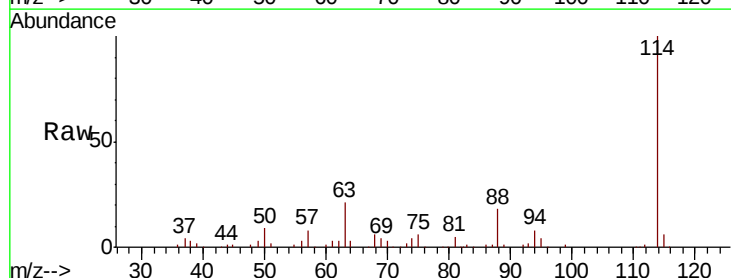
Tgt Ion: 114 Resp: 701129

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.4

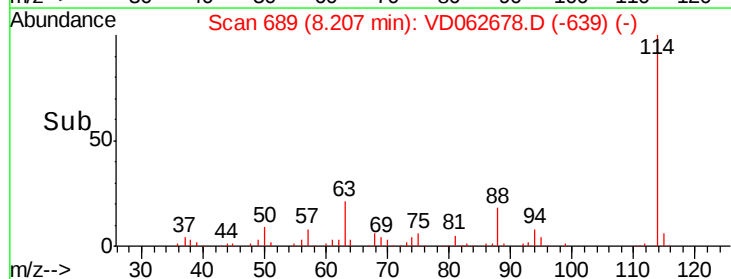
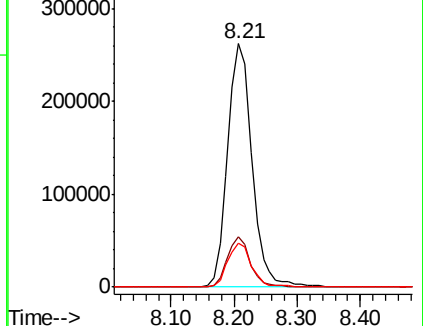
88 17.8 0.0 36.8

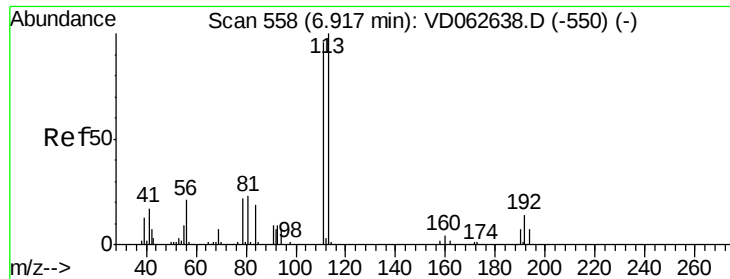


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

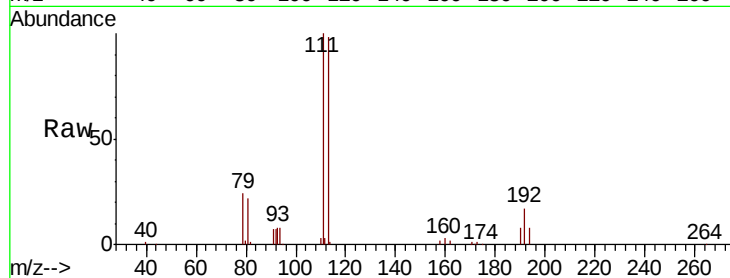




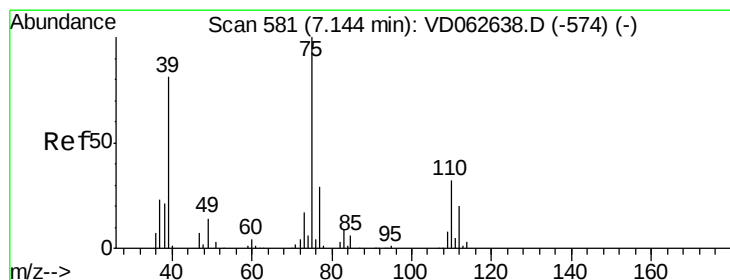
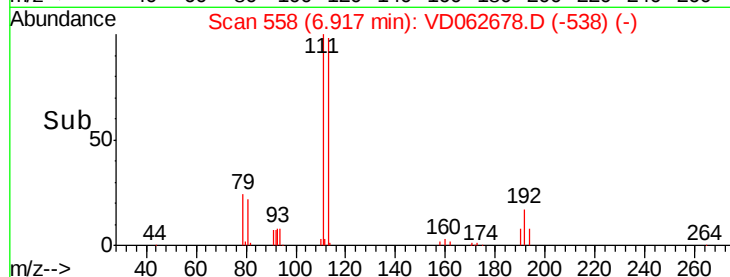
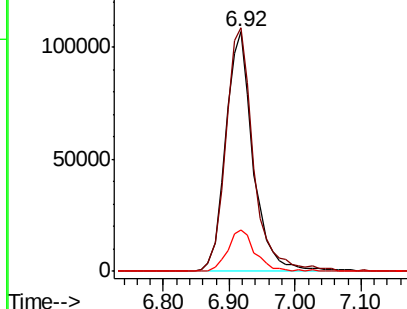
#35
Dibromofluoromethane
Concen: 42.121 ug/l
RT: 6.92 min Scan# 558
Delta R.T. -0.00 min
Lab File: VD062678.D
Acq: 12 Jun 2019 17:03

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:113 Resp: 311455
Ion Ratio Lower Upper
113 100
111 101.6 76.4 114.6
192 17.5 11.4 17.0#

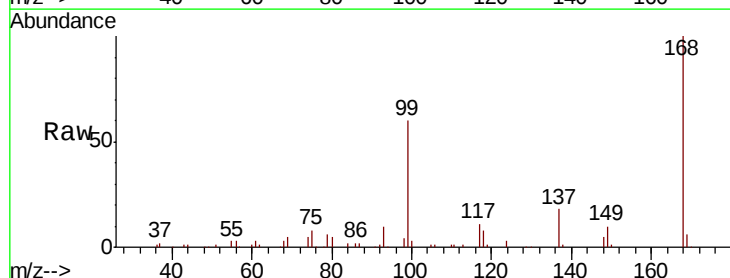


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

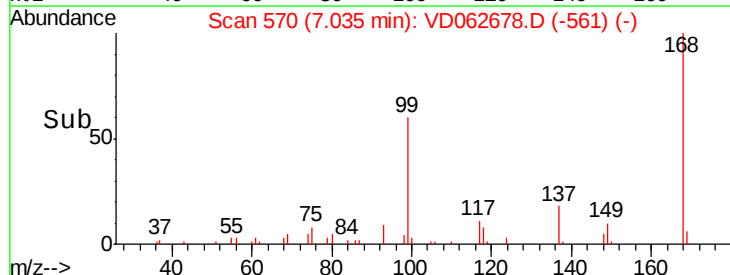
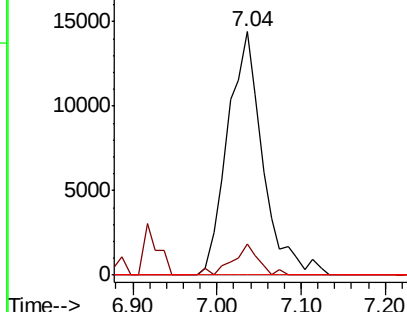


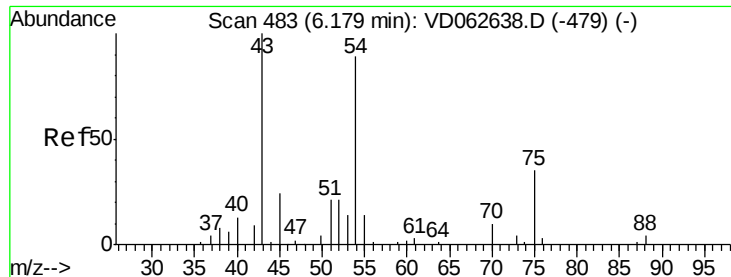
#36
1,1-Dichloropropene
Concen: 5.236 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.11 min
Lab File: VD062678.D
Acq: 12 Jun 2019 17:03

Tgt Ion: 75 Resp: 42017
Ion Ratio Lower Upper
75 100
110 12.6 15.9 47.7#
77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

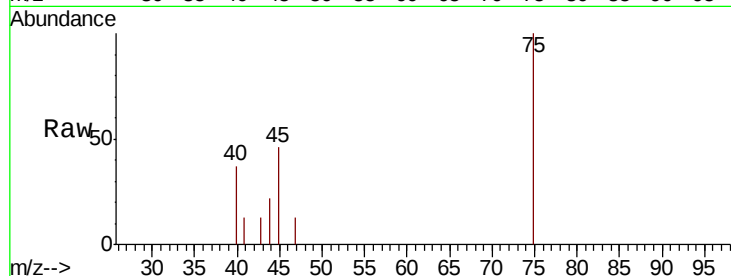




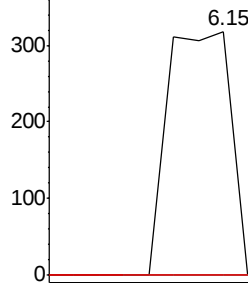
#37
Ethyl Acetate
Concen: 1.359 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.03 min
Lab File: VD062678.D
Acq: 12 Jun 2019 17:03

Instrument :
MSVOA_D
ClientSampleId :

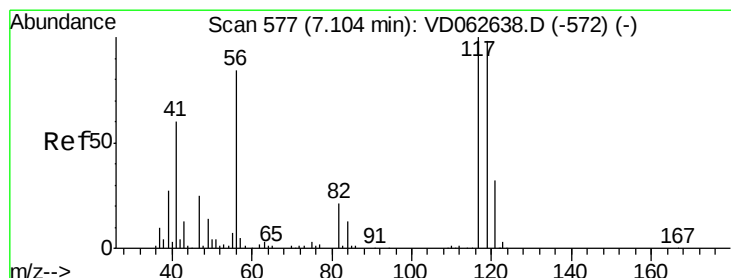
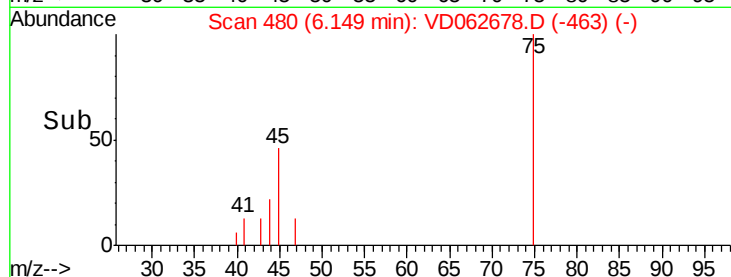
Tot Ion: 43 Resp: 553
Ion Ratio Lower Upper
43 100
61 0.0 8.7 13.1#
70 0.0 6.5 9.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

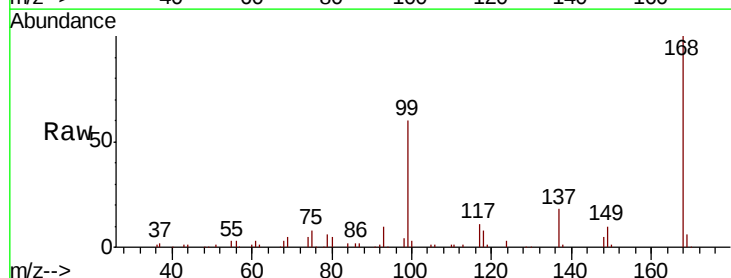


Time-->

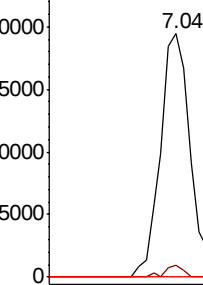


#38
Carbon Tetrachloride
Concen: 4.249 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD062678.D
Acq: 12 Jun 2019 17:03

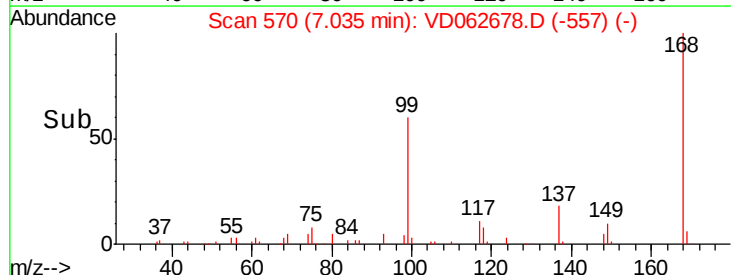
Tgt Ion: 117 Resp: 53888
Ion Ratio Lower Upper
117 100
119 4.9 73.5 110.3#
121 0.0 24.2 36.4#

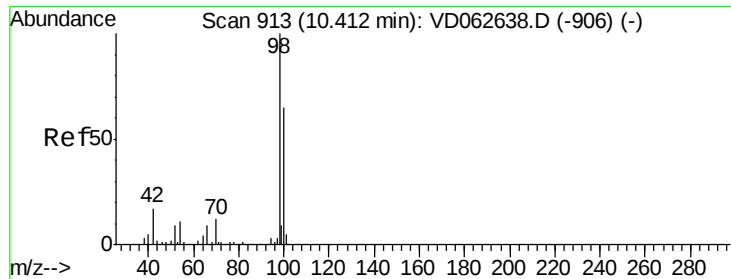


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V



Time-->





#50

Toluene-d8

Concen: 29.379 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.01 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

Instrument :

MSVOA_D

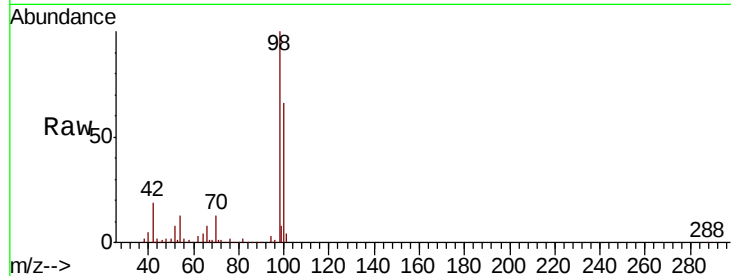
ClientSampleId :

Tot Ion: 98 Resp: 457000

Ion Ratio Lower Upper

98 100

100 65.9 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

200000

150000

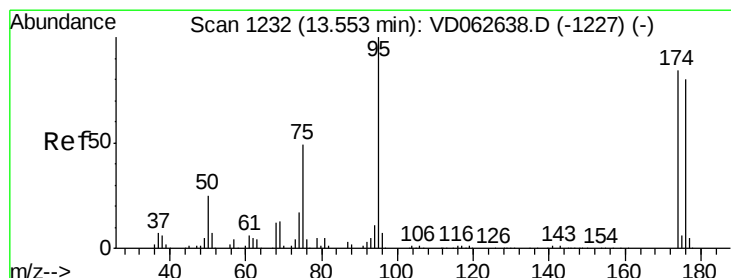
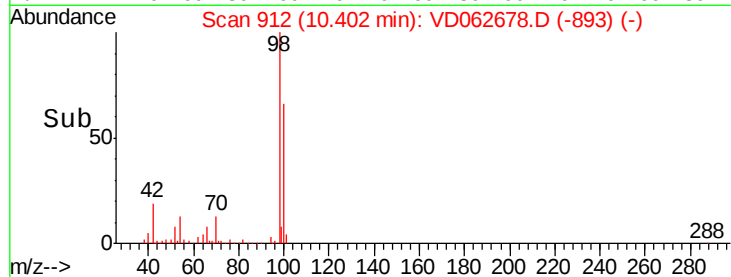
100000

50000

0

10.30 10.40 10.50 10.60

Time-->



#62

4-Bromofluorobenzene

Concen: 19.380 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

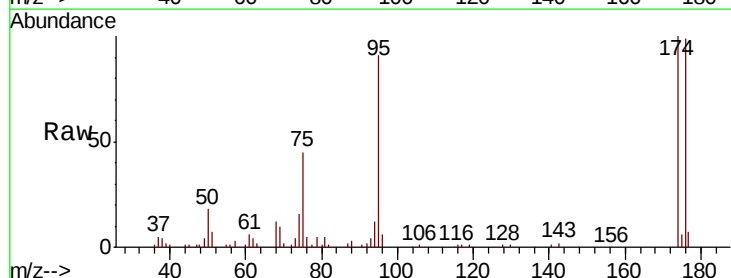
Tgt Ion: 95 Resp: 140642

Ion Ratio Lower Upper

95 100

174 109.5 0.0 167.0

176 109.0 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

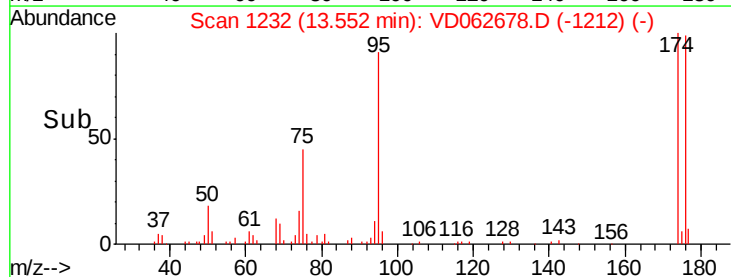
100000

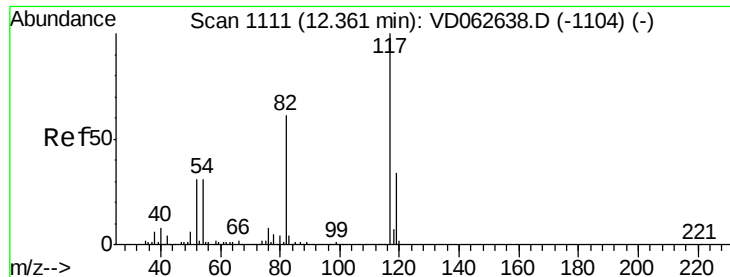
50000

0

13.50 13.55 13.60

Time-->

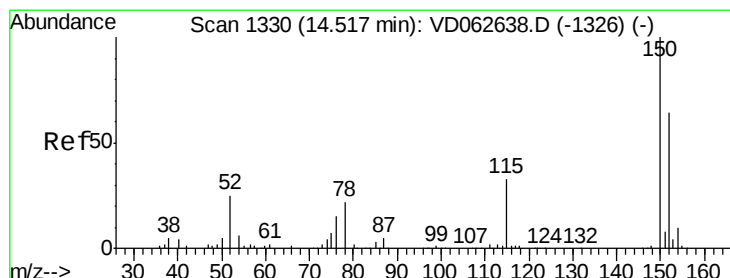
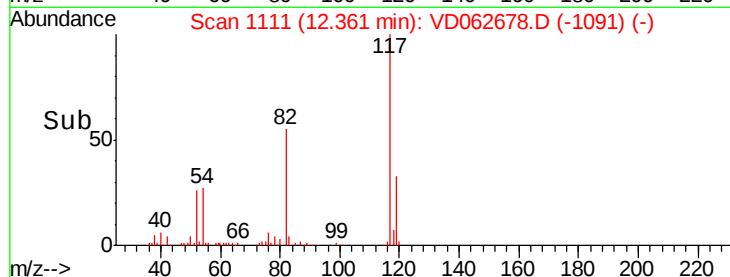
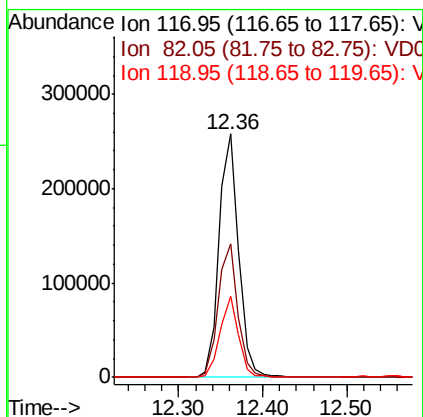
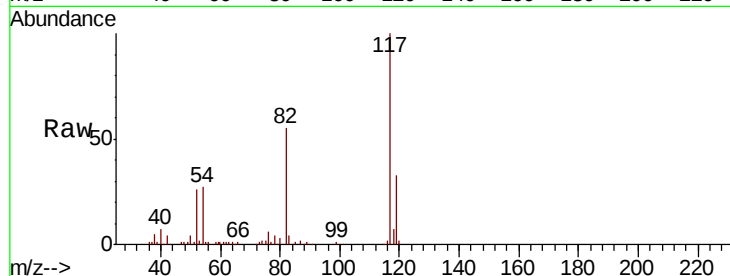




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD062678.D
Acq: 12 Jun 2019 17:03

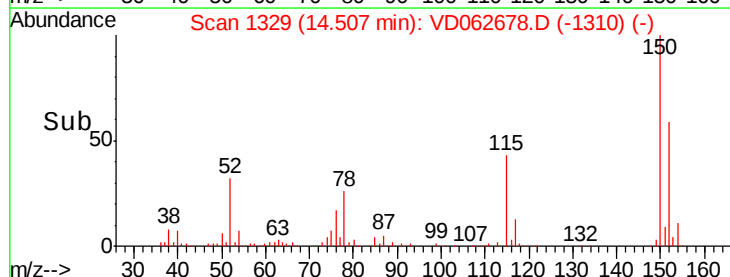
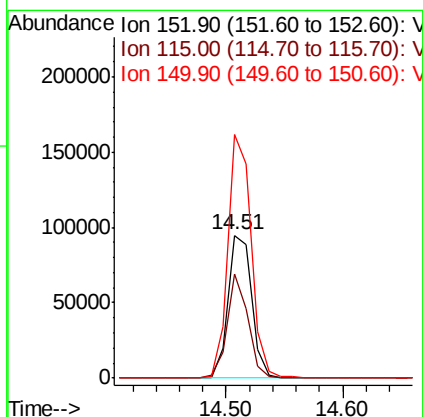
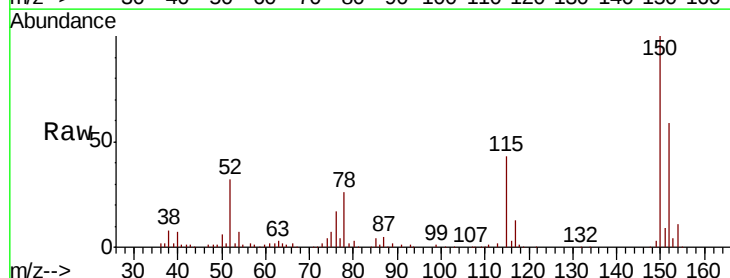
Instrument :
MSVOA_D
ClientSampleId :

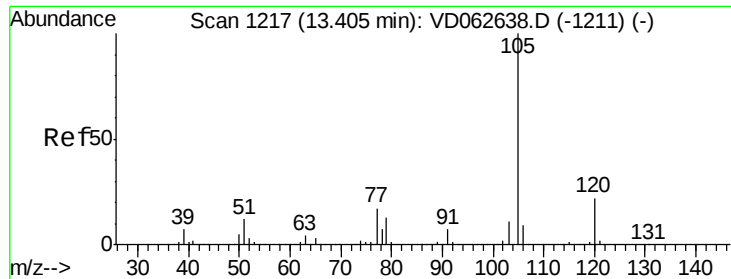
Tot Ion:117 Resp: 415717
Ion Ratio Lower Upper
117 100
82 54.6 48.7 73.1
119 33.0 27.0 40.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD062678.D
Acq: 12 Jun 2019 17:03

Tgt Ion:152 Resp: 133926
Ion Ratio Lower Upper
152 100
115 73.4 30.1 90.5
150 170.8 0.0 314.0





#73

Isopropylbenzene

Concen: 3.037 ug/l

RT: 13.39 min Scan# 1215

Delta R.T. -0.02 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

Instrument :

MSVOA_D

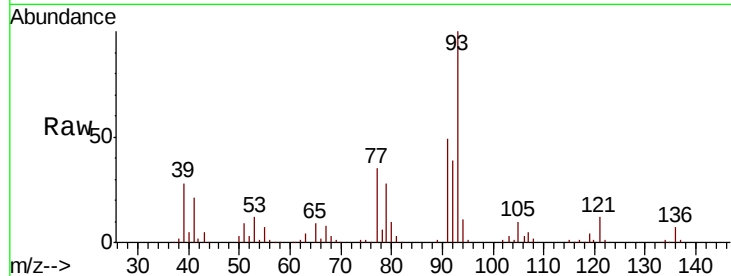
ClientSampleId :

Tot Ion: 105 Resp: 28673

Ion Ratio Lower Upper

105 100

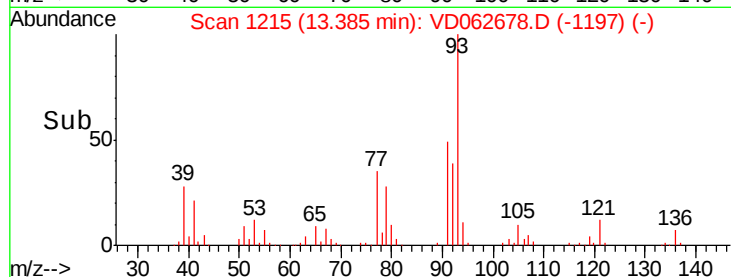
120 6.0 10.9 32.7#



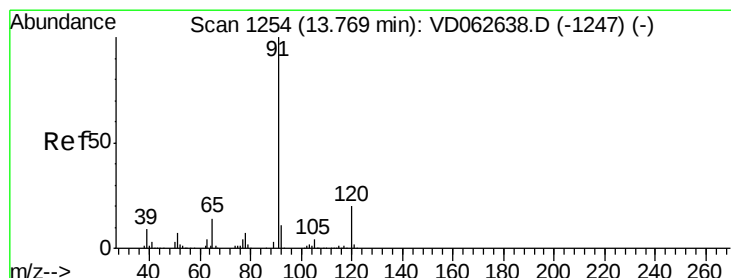
Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.39



Time-->



#78

n-propylbenzene

Concen: 6.019 ug/l

RT: 13.64 min Scan# 1241

Delta R.T. -0.13 min

Lab File: VD062678.D

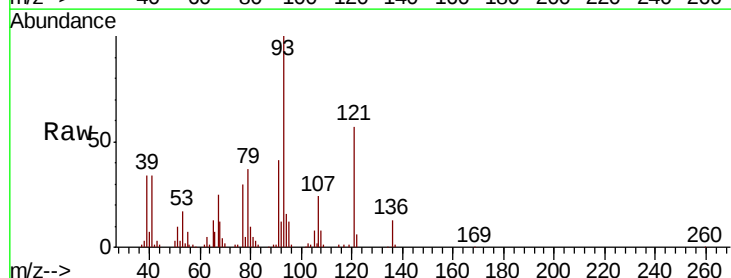
Acq: 12 Jun 2019 17:03

Tgt Ion: 91 Resp: 69551

Ion Ratio Lower Upper

91 100

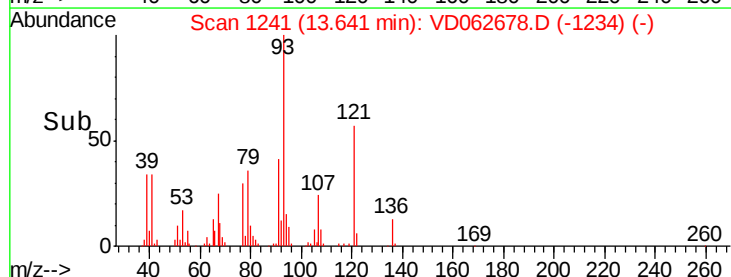
120 0.0 9.8 29.5#



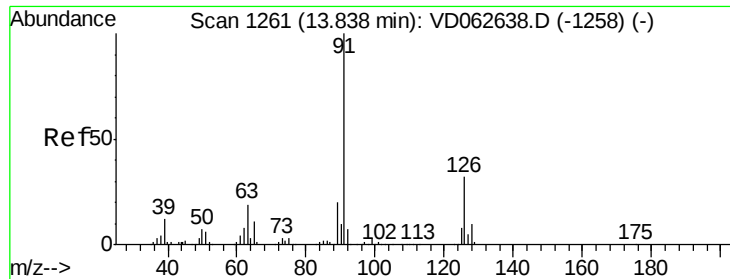
Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

13.64



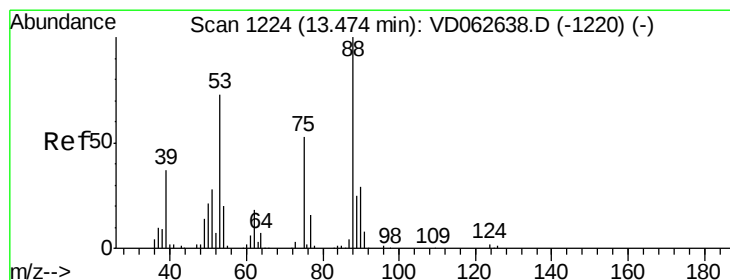
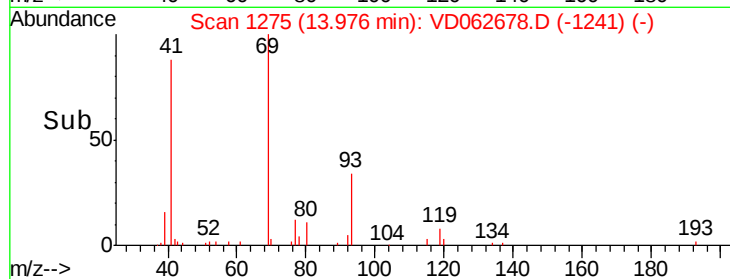
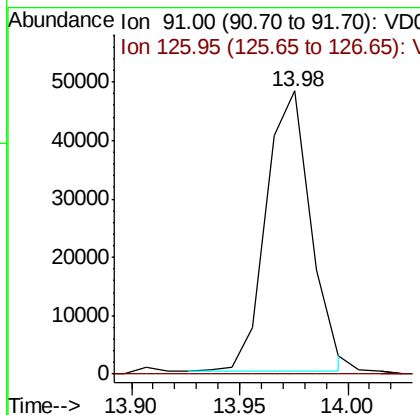
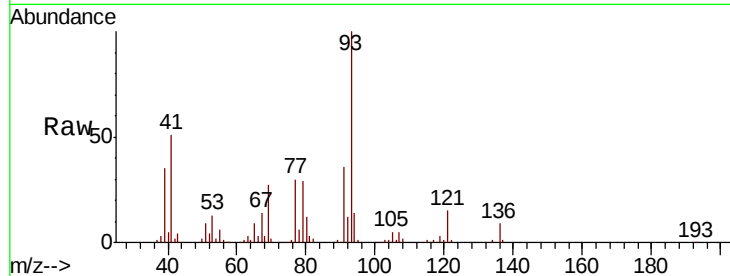
Time-->



#79
 2-Chlorotoluene
 Concen: 10.188 ug/l
 RT: 13.98 min Scan# 1275
 Delta R.T. 0.14 min
 Lab File: VD062678.D
 Acq: 12 Jun 2019 17:03

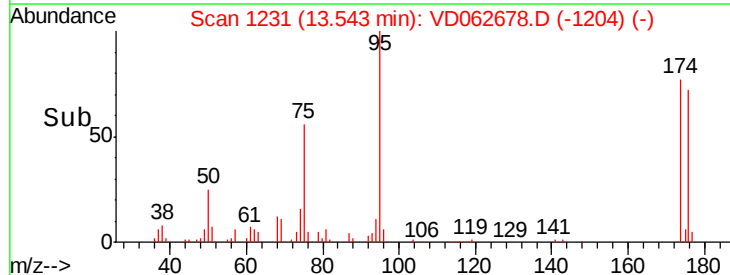
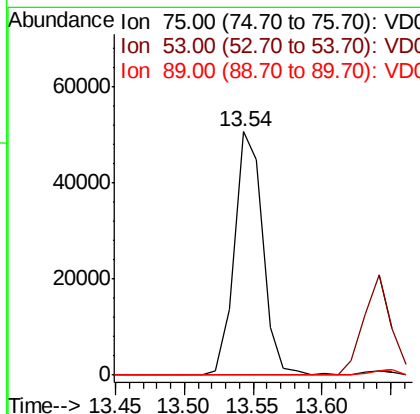
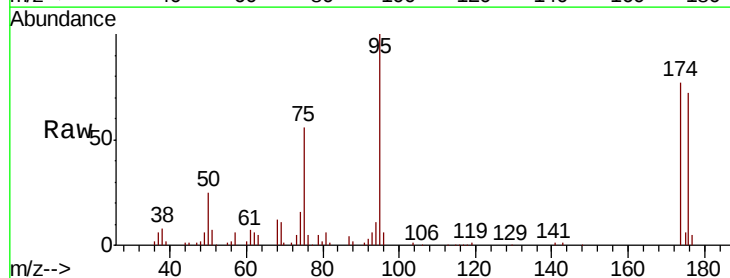
Instrument :
 MSVOA_D
 ClientSampleId :

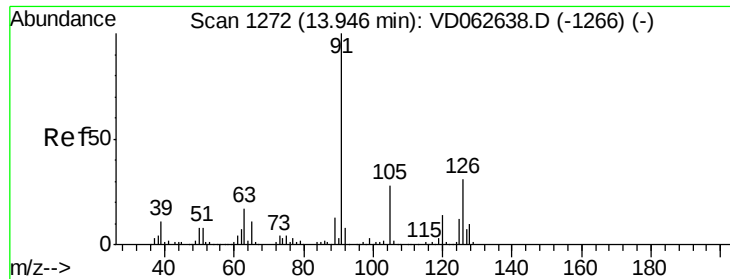
Tot Ion: 91 Resp: 68931
 Ion Ratio Lower Upper
 91 100
 126 0.0 15.8 47.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.951 ug/l
 RT: 13.54 min Scan# 1231
 Delta R.T. 0.07 min
 Lab File: VD062678.D
 Acq: 12 Jun 2019 17:03

Tgt Ion: 75 Resp: 72450
 Ion Ratio Lower Upper
 75 100
 53 0.0 109.4 164.2#
 89 0.0 37.0 55.6#





#82

4-Chlorotoluene

Concen: 8.837 ug/l

RT: 13.98 min Scan# 1275

Delta R.T. 0.03 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

Instrument :

MSVOA_D

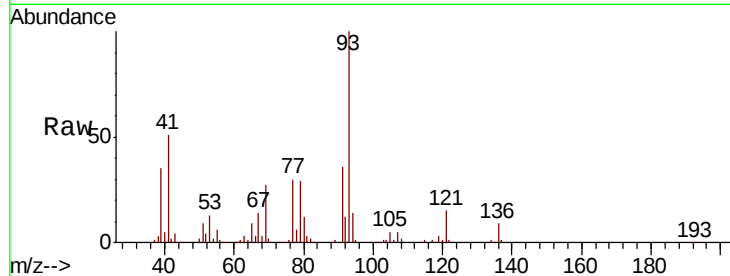
ClientSampled :

Tot Ion: 91 Resp: 71498

Ion Ratio Lower Upper

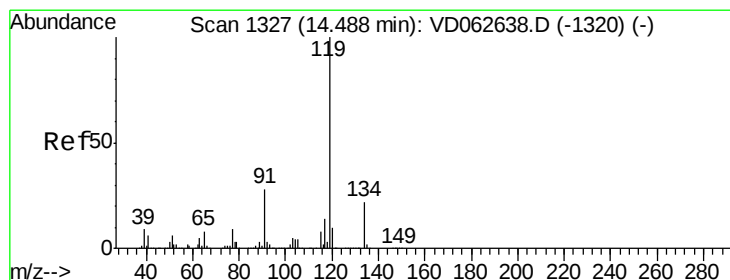
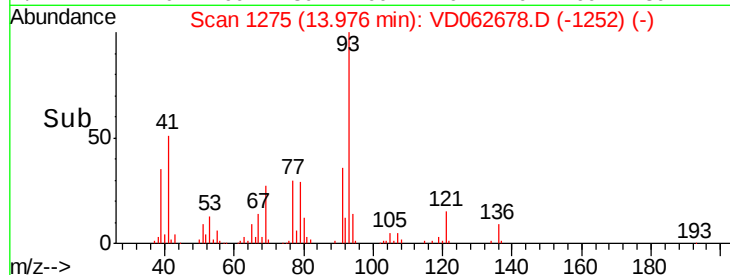
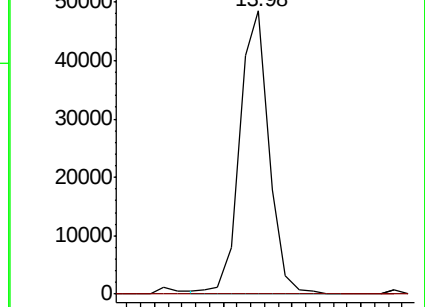
91 100

126 0.0 15.6 46.8#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#86

p-Isopropyltoluene

Concen: 1.098 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VD062678.D

Acq: 12 Jun 2019 17:03

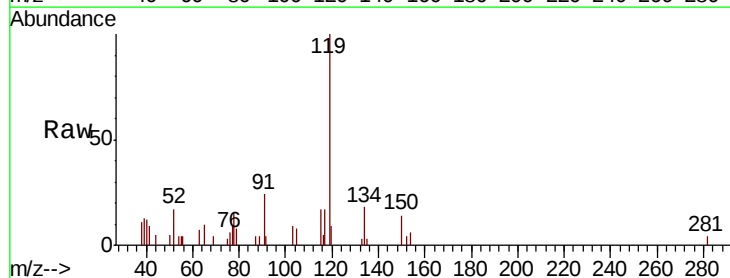
Tgt Ion: 119 Resp: 10315

Ion Ratio Lower Upper

119 100

134 18.4 10.9 32.6

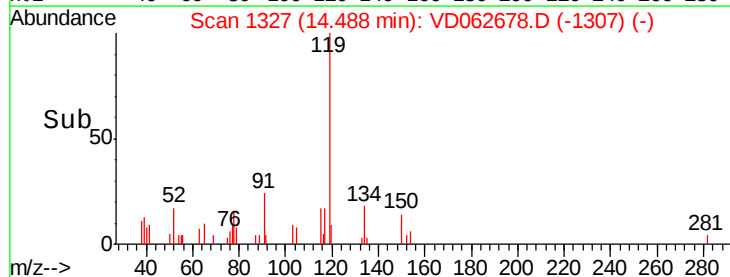
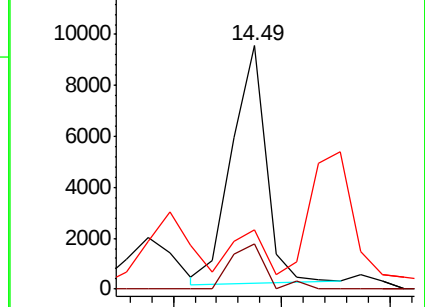
91 24.1 13.9 41.6

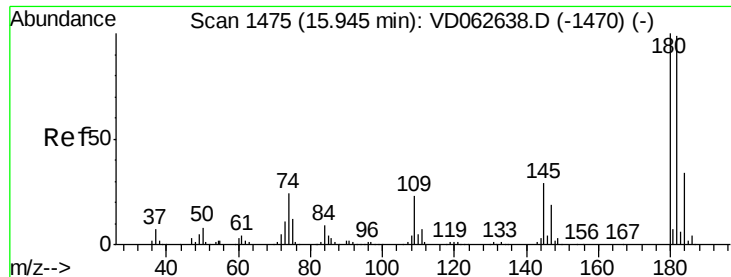


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

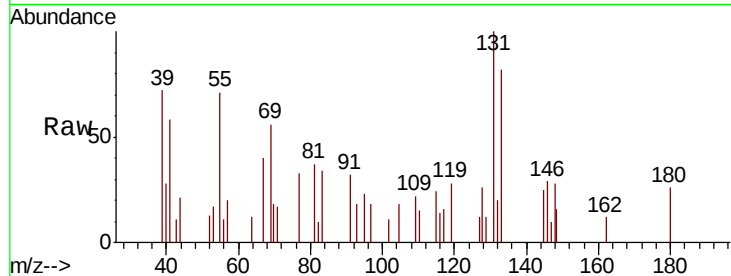




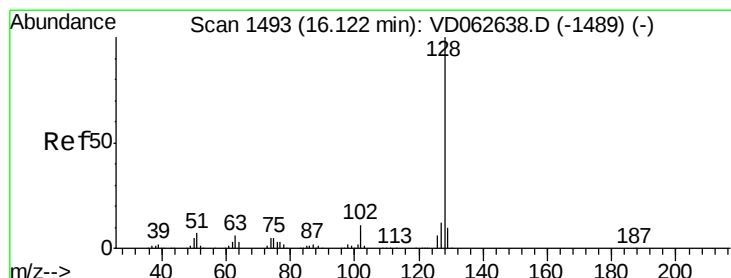
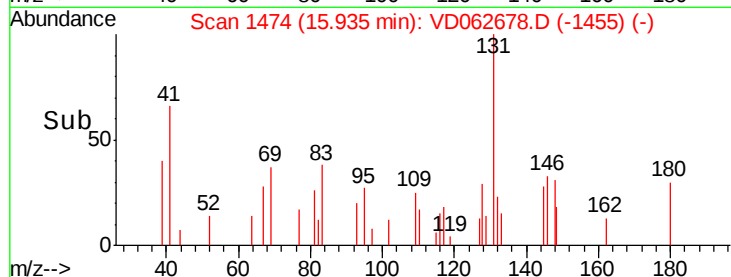
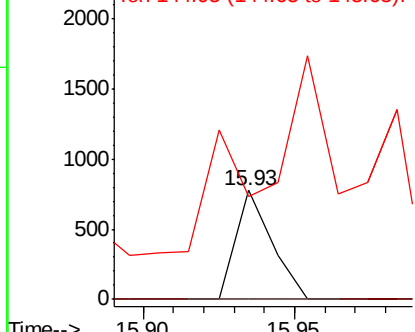
#93
 1,2,4-Trichlorobenzene
 Concen: 3.741 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD062678.D
 Acq: 12 Jun 2019 17:03

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 643
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.4 148.2#
 145 94.8 14.5 43.6#

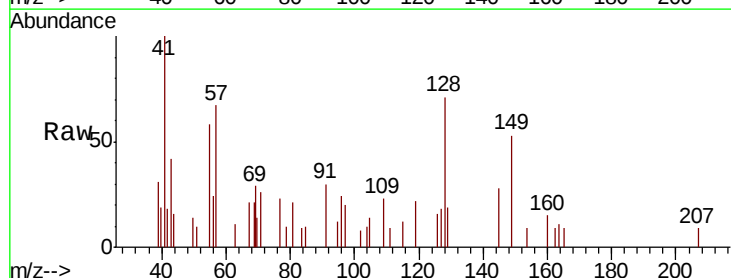


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 4.106 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062678.D
 Acq: 12 Jun 2019 17:03

Tgt Ion:128 Resp: 3425
 Ion Ratio Lower Upper
 128 100
 127 25.1 9.7 14.5#
 129 27.4 8.1 12.1#



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

