

Data File : VD058302.D
Acq On : 22 Jun 2018 17:54
Operator : VA/AP
Sample : J3663-05
Misc : 5.00g/5ml/MSVOA_D/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-26-28-180618

Quant Time: Jun 22 23:09:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	701523	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	917729	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	728518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	362190	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.01	65	385672	54.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.86%	
35) Dibromofluoromethane	5.54	113	386436	51.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.48%	
50) Toluene-d8	8.70	98	900030	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
62) 4-Bromofluorobenzene	11.93	95	380832	51.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.18%	

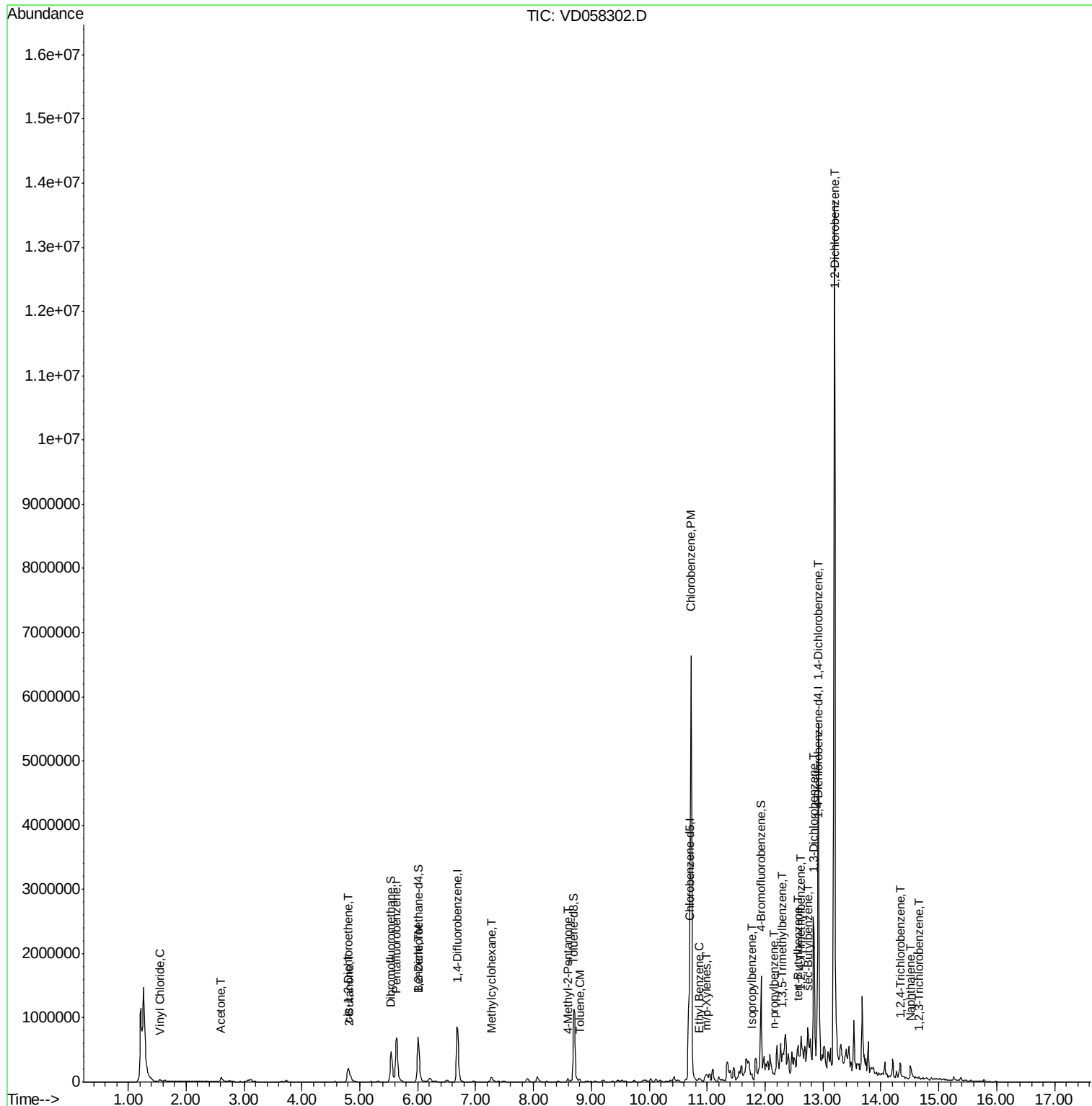
Target Compounds				Qvalue		
4) Vinyl Chloride	1.55	62	20704	5.634	ug/l	91
16) Acetone	2.61	43	139638	144.097	ug/l #	92
25) 2-Butanone	4.82	43	96218	45.556	ug/l	95
27) cis-1,2-Dichloroethene	4.80	96	122548	18.618	ug/l	81
39) Methylcyclohexane	7.27	83	30128	3.407	ug/l	93
40) Benzene	6.01	78	367956	17.014	ug/l	97
51) 4-Methyl-2-Pentanone	8.59	43	62917	13.987	ug/l	99
52) Toluene	8.80	92	21229	1.724	ug/l	92
65) Chlorobenzene	10.72	112	3556869	261.011	ug/l	97
67) Ethyl Benzene	10.86	91	26966	1.121	ug/l	99
68) m/p-Xylenes	11.00	106	11370	1.417	ug/l	99
73) Isopropylbenzene	11.77	105	22778	1.051	ug/l	90
78) n-propylbenzene	12.15	91	37817	1.352	ug/l	94
80) 1,3,5-Trimethylbenzene	12.31	105	45577	2.697	ug/l	96
83) tert-Butylbenzene	12.57	119	33164	1.707	ug/l	77
84) 1,2,4-Trimethylbenzene	12.62	105	117745	6.410	ug/l	98
85) sec-Butylbenzene	12.76	105	67175	2.950	ug/l	86
87) 1,3-Dichlorobenzene	12.84	146	770266	68.313	ug/l	99
88) 1,4-Dichlorobenzene	12.92	146	1524490	138.453	ug/l	94
91) 1,2-Dichlorobenzene	13.20	146	5637681	587.534	ug/l	98
93) 1,2,4-Trichlorobenzene	14.34	180	51379	5.598	ug/l	94
95) Naphthalene	14.51	128	121622	10.061	ug/l	98
96) 1,2,3-Trichlorobenzene	14.65	180	9611	1.196	ug/l #	79

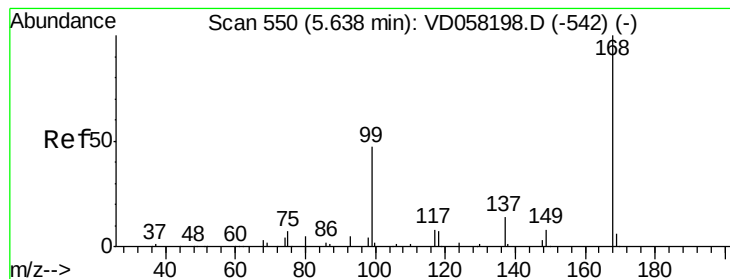
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.00 min

Lab File: VD058302.D

Acq: 22 Jun 2018 17:54

Instrument :

MSVOA_D

ClientSampleId :

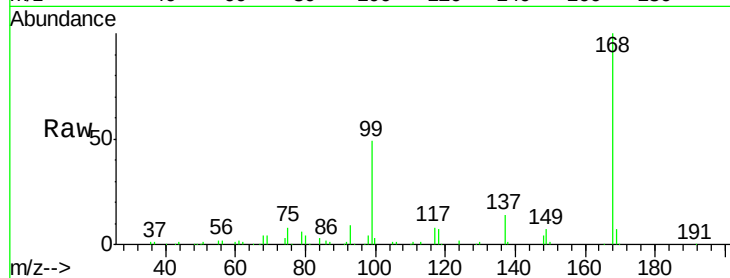
WP021SB472-26-28-180618

Tgt Ion: 168 Resp: 701523

Ion Ratio Lower Upper

168 100

99 48.9 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.64

250000

200000

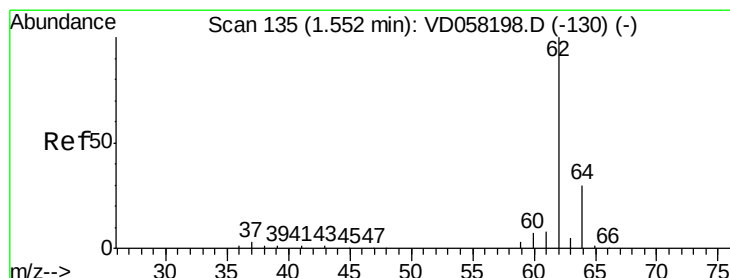
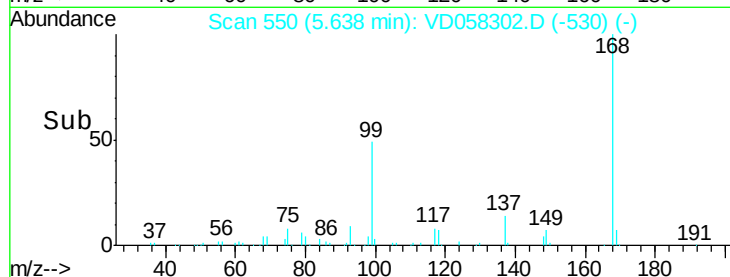
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 5.634 ug/l

RT: 1.55 min Scan# 135

Delta R.T. -0.00 min

Lab File: VD058302.D

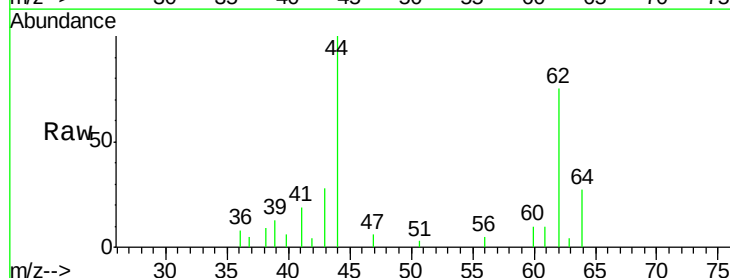
Acq: 22 Jun 2018 17:54

Tgt Ion: 62 Resp: 20704

Ion Ratio Lower Upper

62 100

64 35.6 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.55

8000

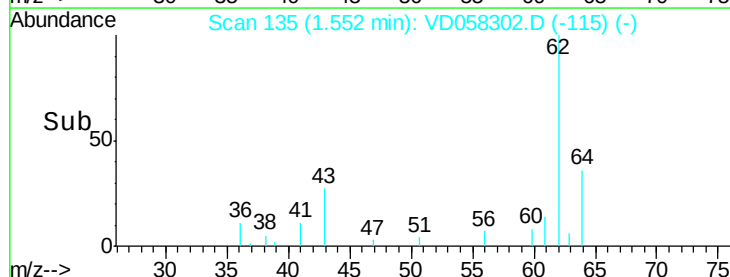
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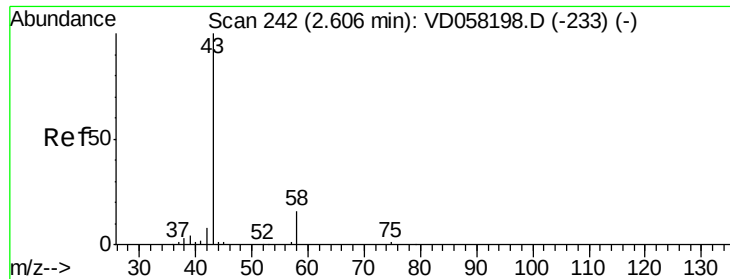
4000

2000

0

Time-->





#16

Acetone

Concen: 144.097 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.00 min

Lab File: VD058302.D

Acq: 22 Jun 2018 17:54

Instrument :

MSVOA_D

ClientSampleId :

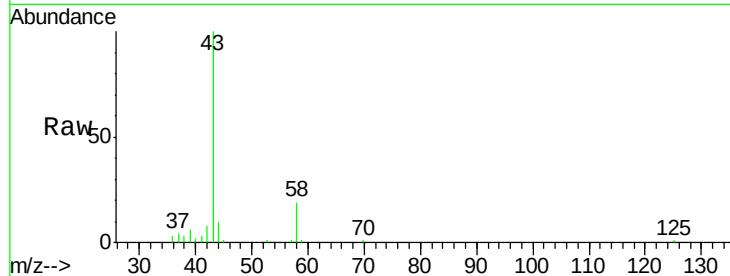
WP021SB472-26-28-180618

Tgt Ion: 43 Resp: 139638

Ion Ratio Lower Upper

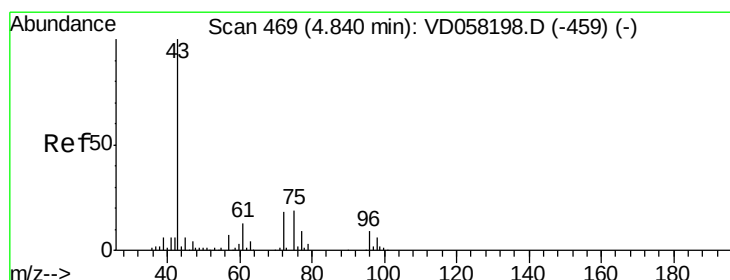
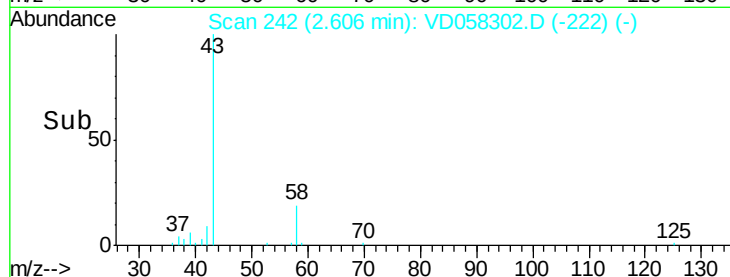
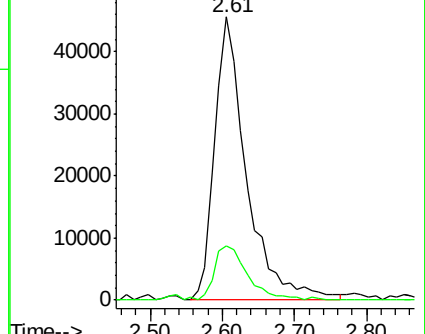
43 100

58 19.2 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#25

2-Butanone

Concen: 45.556 ug/l

RT: 4.82 min Scan# 467

Delta R.T. -0.02 min

Lab File: VD058302.D

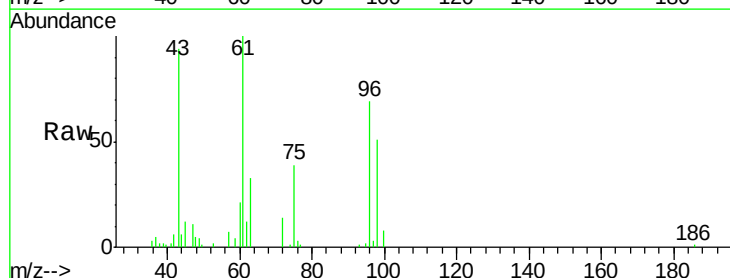
Acq: 22 Jun 2018 17:54

Tgt Ion: 43 Resp: 96218

Ion Ratio Lower Upper

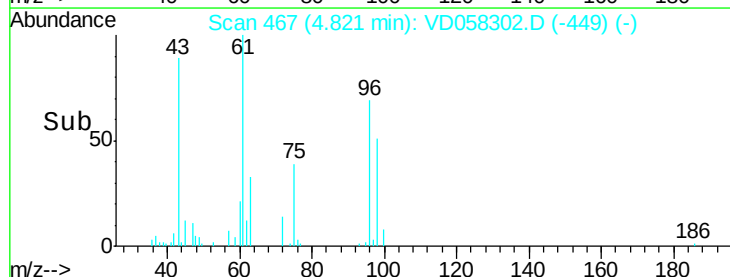
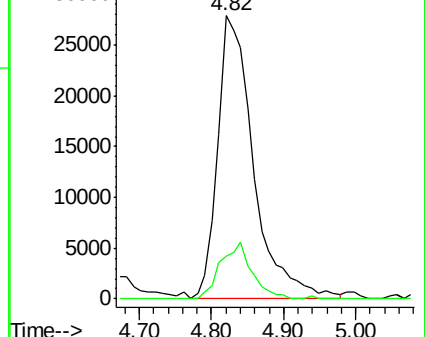
43 100

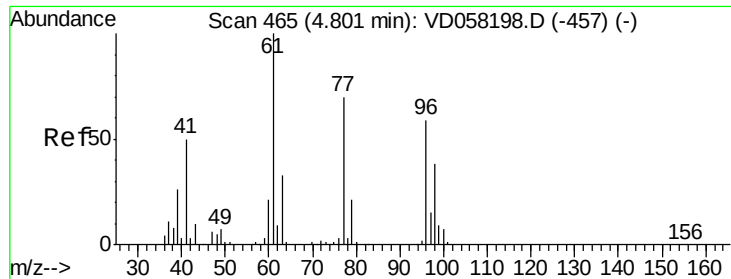
72 15.2 14.1 21.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



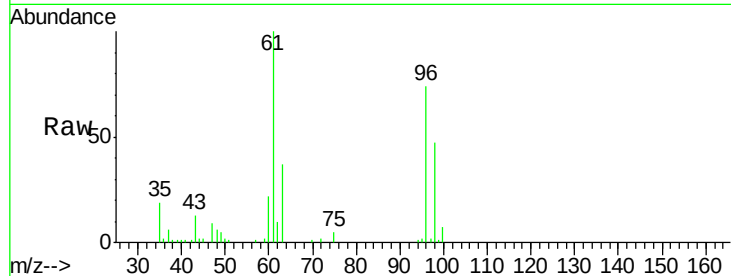


#27

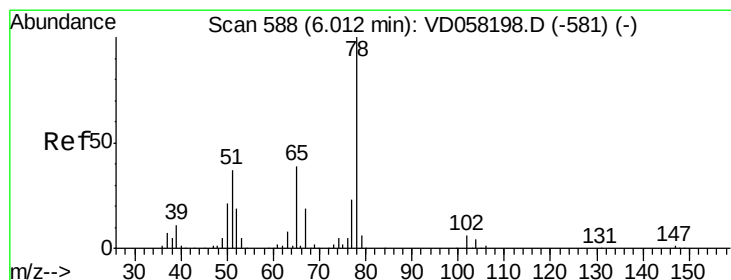
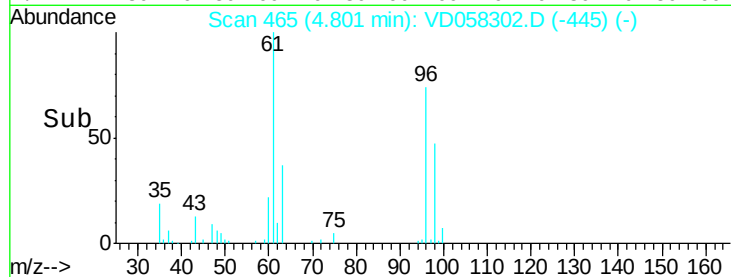
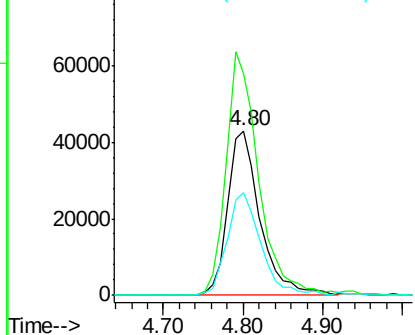
cis-1,2-Dichloroethene
 Concen: 18.618 ug/l
 RT: 4.80 min Scan# 465
 Delta R.T. -0.00 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-26-28-180618

Tgt Ion: 96 Resp: 122548
 Ion Ratio Lower Upper
 96 100
 61 134.5 0.0 338.6
 98 62.6 0.0 130.2



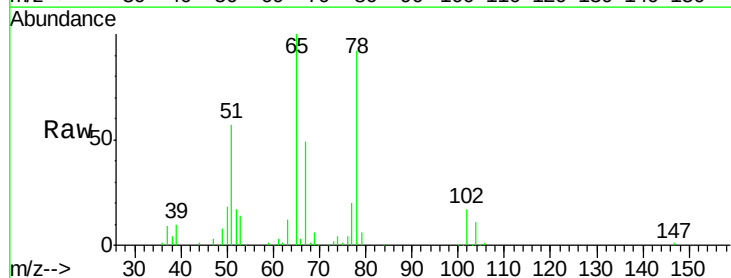
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



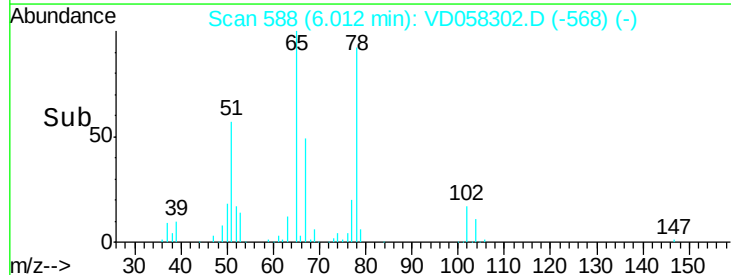
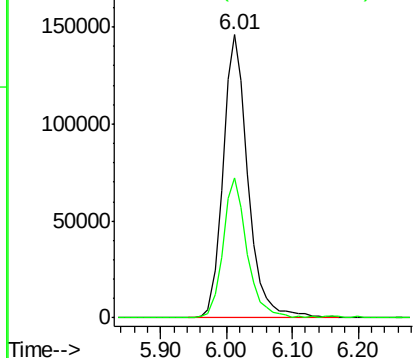
#33

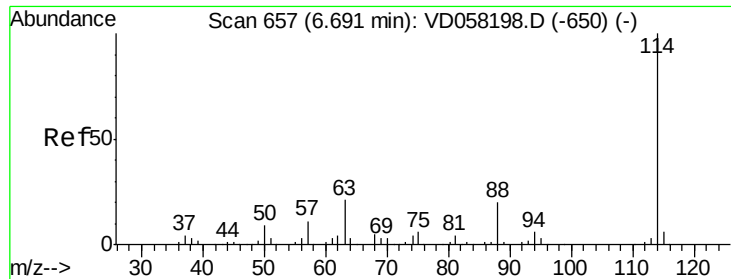
1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.01 min Scan# 588
 Delta R.T. -0.00 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Tgt Ion: 65 Resp: 385672
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
 Ion 66.90 (66.60 to 67.60): VDC

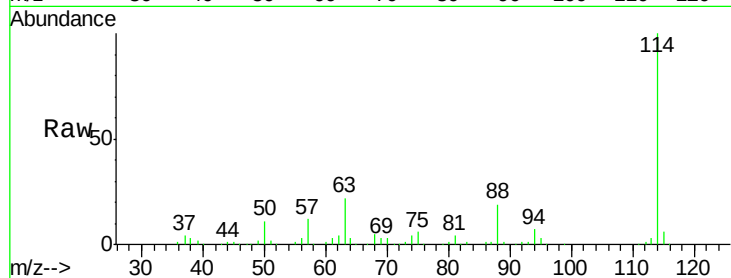




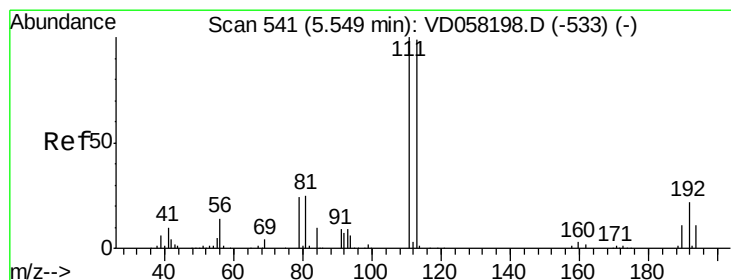
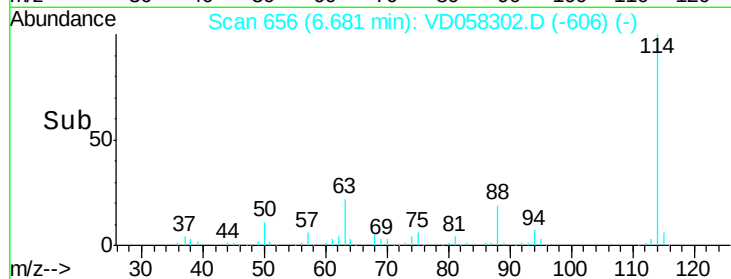
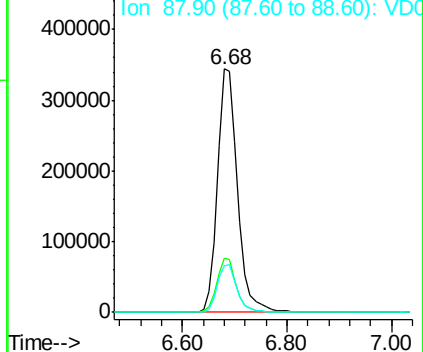
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.01 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-26-28-180618

Tgt Ion:114 Resp: 917729
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 42.6
 88 19.2 0.0 40.6

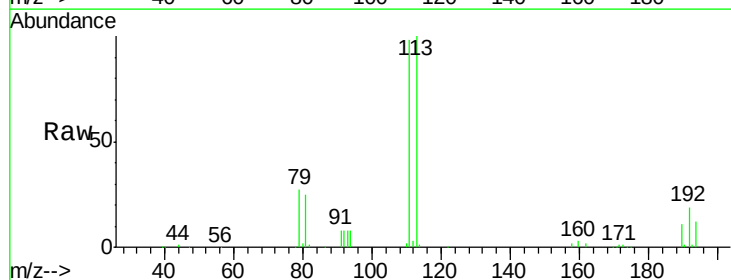


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC

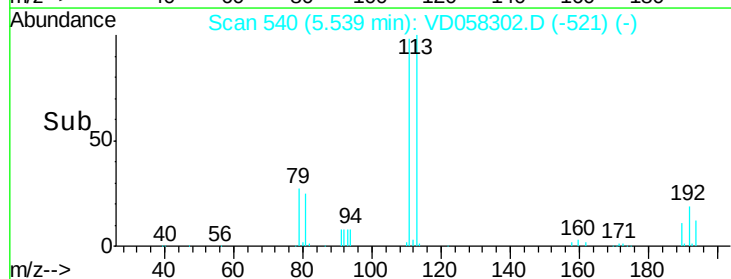
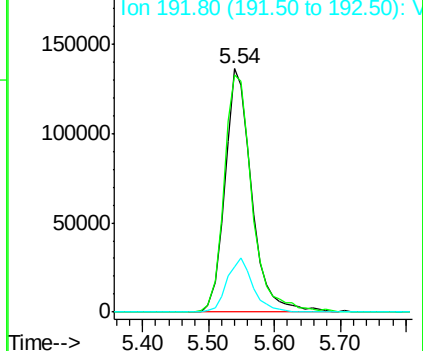


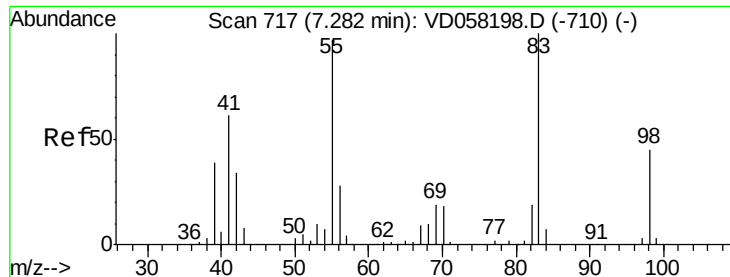
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 540
 Delta R.T. -0.01 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Tgt Ion:113 Resp: 386436
 Ion Ratio Lower Upper
 113 100
 111 97.7 80.6 121.0
 192 18.6 17.8 26.6



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

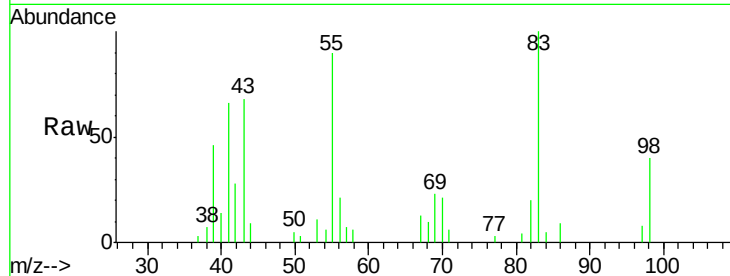




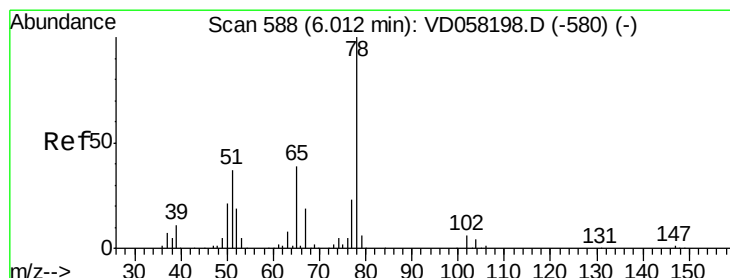
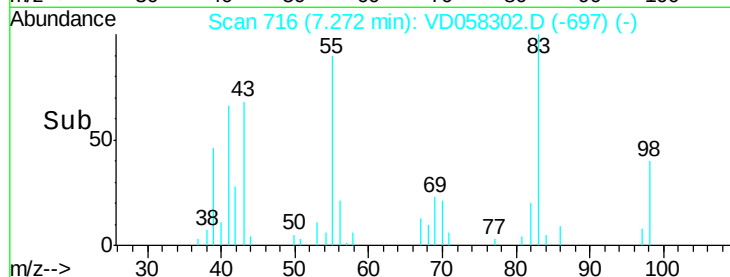
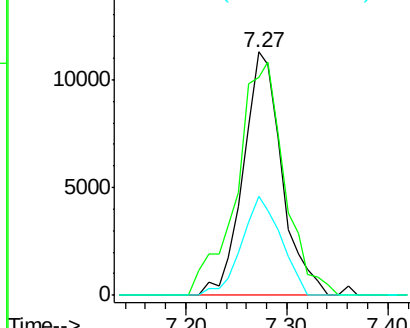
#39
Methylcyclohexane
Concen: 3.407 ug/l
RT: 7.27 min Scan# 716
Delta R.T. -0.01 min
Lab File: VD058302.D
Acq: 22 Jun 2018 17:54

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-26-28-180618

Tgt Ion: 83 Resp: 30128
Ion Ratio Lower Upper
83 100
55 89.6 77.4 116.2
98 40.4 35.9 53.9

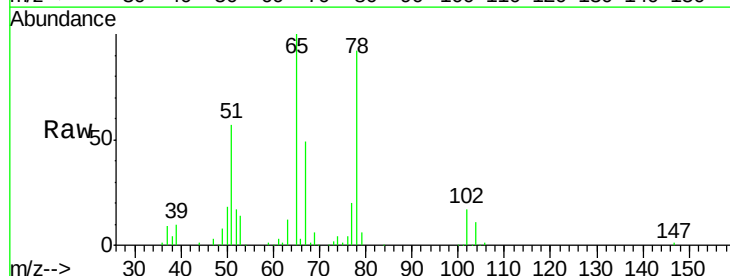


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

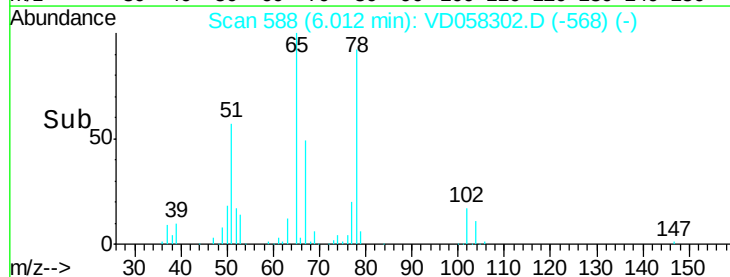
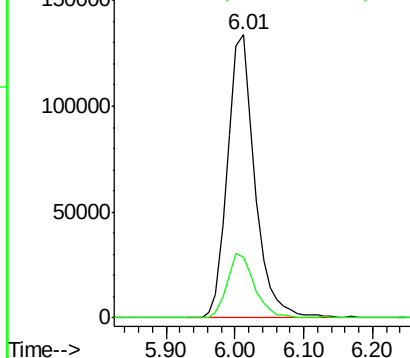


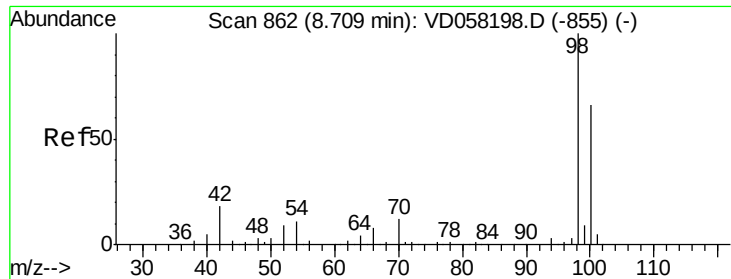
#40
Benzene
Concen: 17.014 ug/l
RT: 6.01 min Scan# 588
Delta R.T. -0.00 min
Lab File: VD058302.D
Acq: 22 Jun 2018 17:54

Tgt Ion: 78 Resp: 367956
Ion Ratio Lower Upper
78 100
77 21.7 18.5 27.7



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC

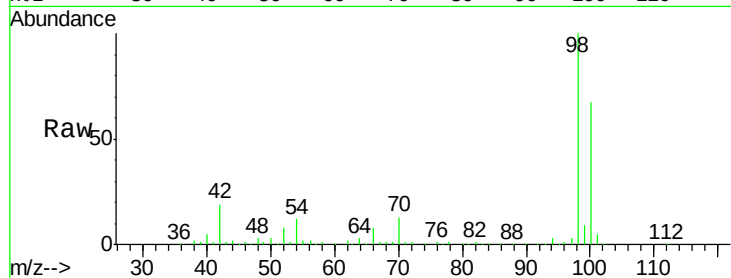




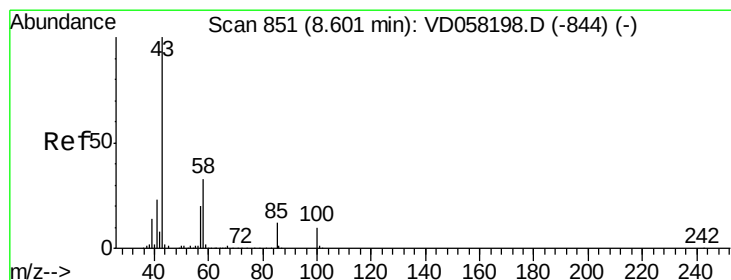
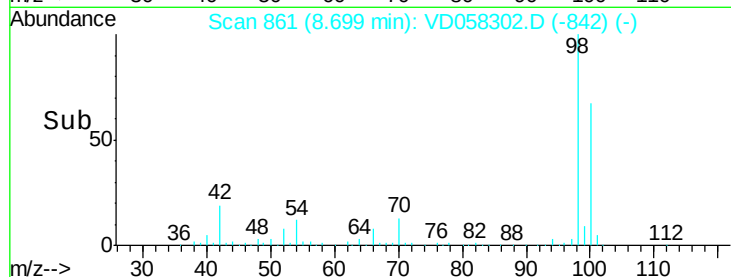
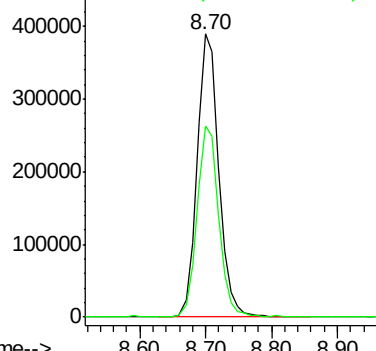
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD058302.D
Acq: 22 Jun 2018 17:54

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-26-28-180618

Tgt Ion: 98 Resp: 900030
Ion Ratio Lower Upper
98 100
100 67.4 53.6 80.4

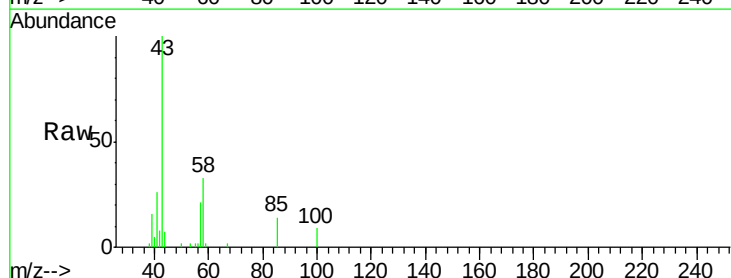


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

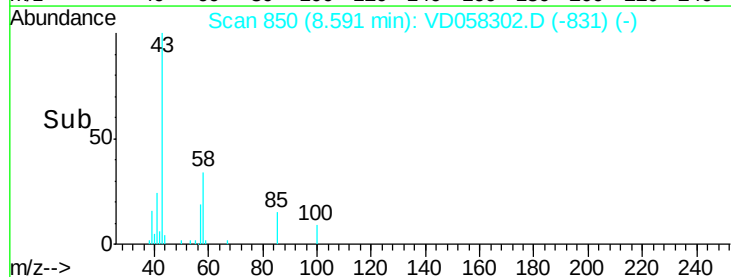
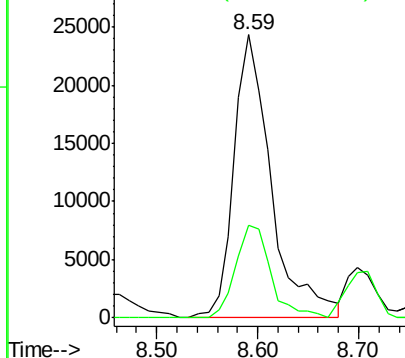


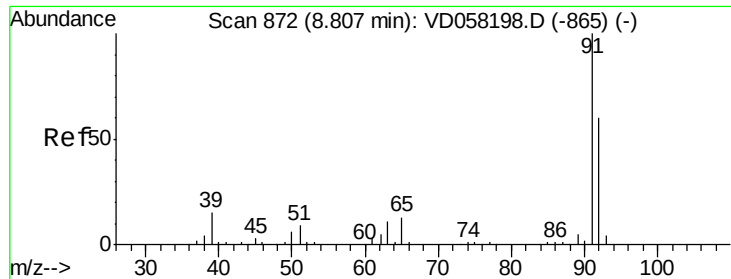
#51
4-Methyl-2-Pentanone
Concen: 13.987 ug/l
RT: 8.59 min Scan# 850
Delta R.T. -0.01 min
Lab File: VD058302.D
Acq: 22 Jun 2018 17:54

Tgt Ion: 43 Resp: 62917
Ion Ratio Lower Upper
43 100
58 32.7 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 1.724 ug/l

RT: 8.80 min Scan# 871

Delta R.T. -0.01 min

Lab File: VD058302.D

Acq: 22 Jun 2018 17:54

Instrument :

MSVOA_D

ClientSampleId :

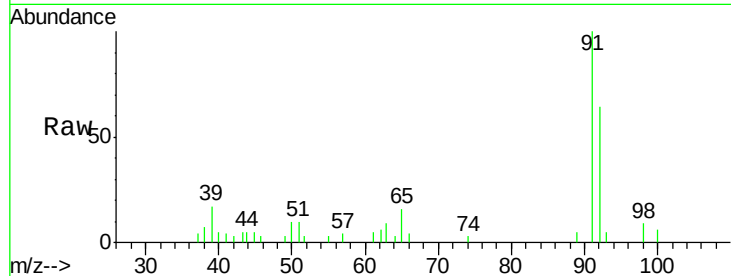
WP021SB472-26-28-180618

Tgt Ion: 92 Resp: 21229

Ion Ratio Lower Upper

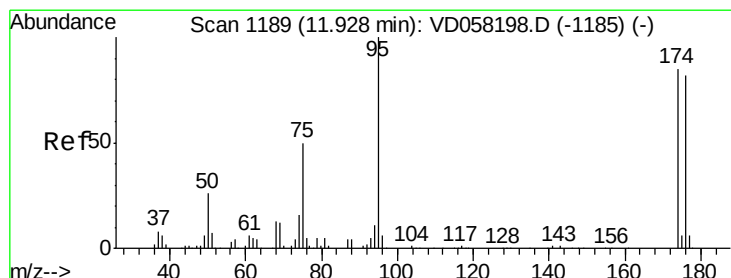
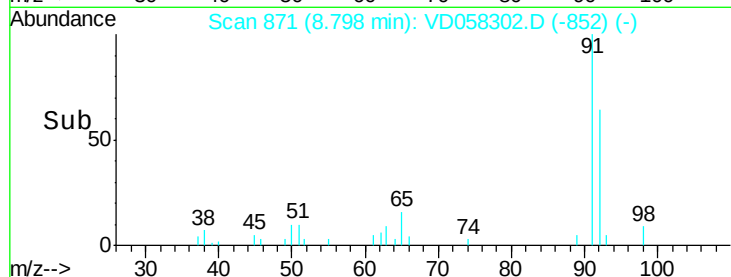
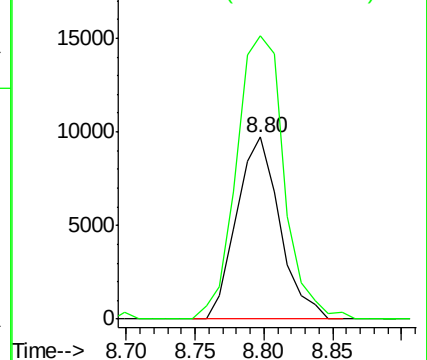
92 100

91 155.4 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD058302.D

Acq: 22 Jun 2018 17:54

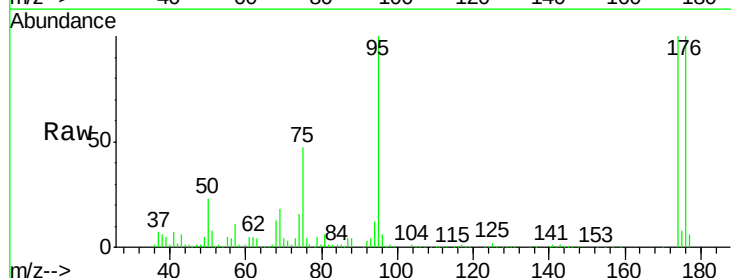
Tgt Ion: 95 Resp: 380832

Ion Ratio Lower Upper

95 100

174 100.4 0.0 170.2

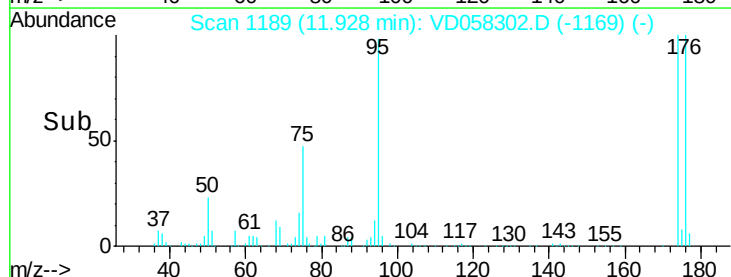
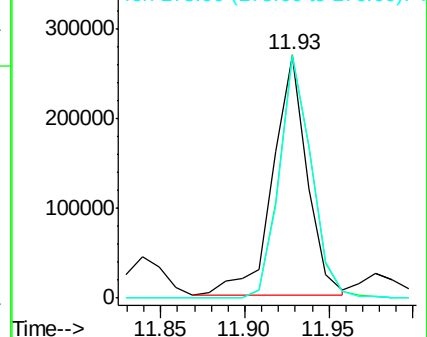
176 100.0 0.0 164.6

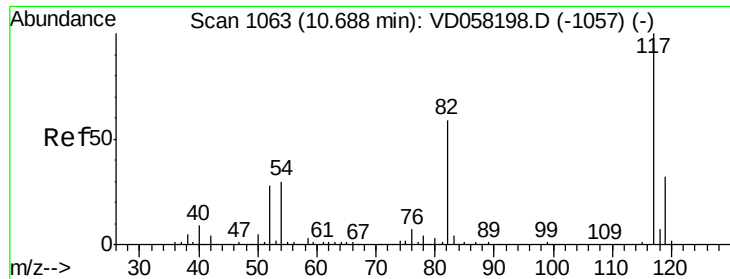


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

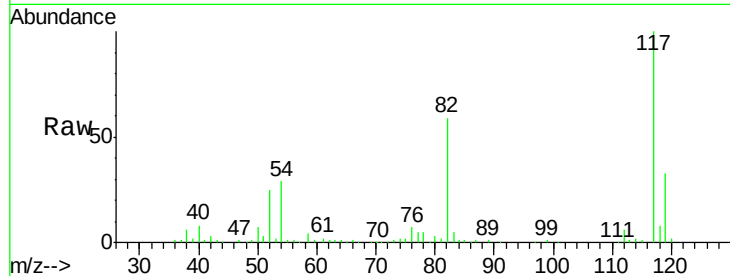




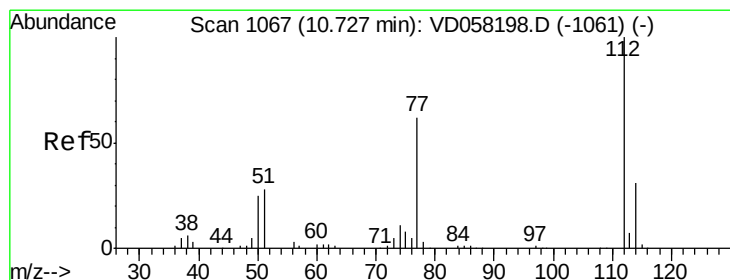
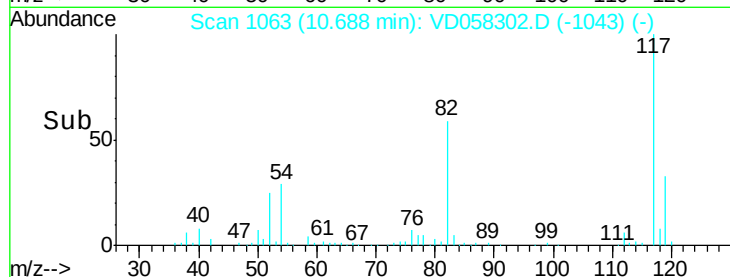
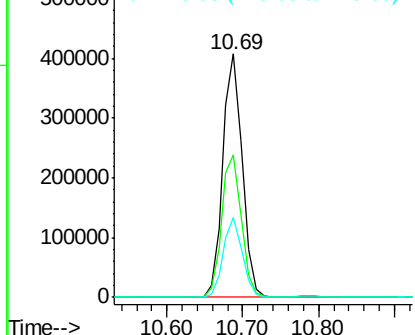
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. -0.00 min
Lab File: VD058302.D
Acq: 22 Jun 2018 17:54

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-26-28-180618

Tgt Ion:117 Resp: 728518
Ion Ratio Lower Upper
117 100
82 58.6 47.0 70.6
119 32.8 25.3 37.9

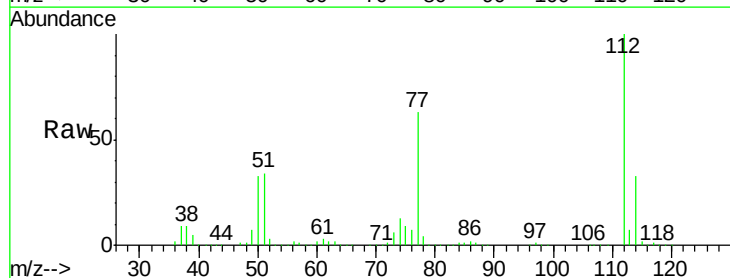


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

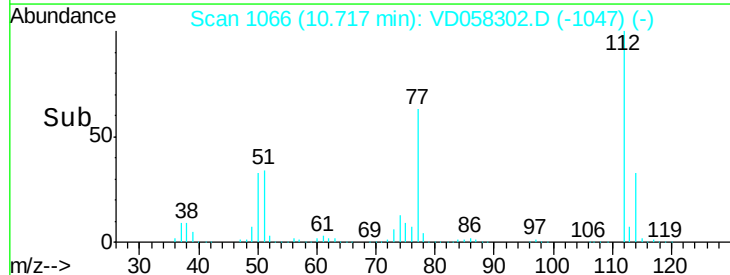
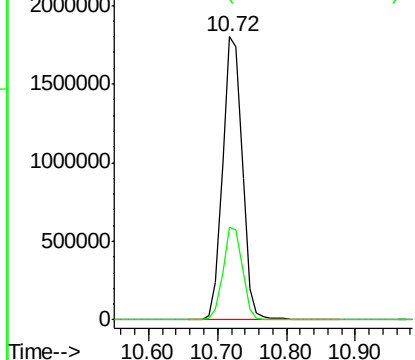


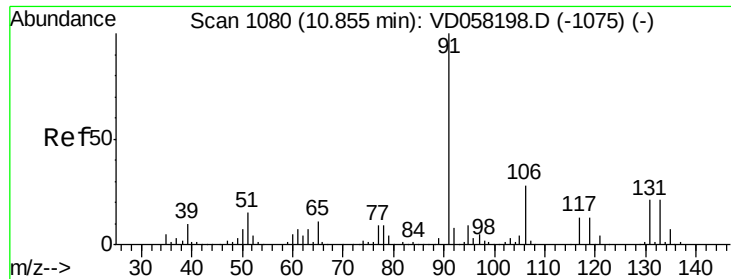
#65
Chlorobenzene
Concen: 261.011 ug/l
RT: 10.72 min Scan# 1066
Delta R.T. -0.01 min
Lab File: VD058302.D
Acq: 22 Jun 2018 17:54

Tgt Ion:112 Resp: 3556869
Ion Ratio Lower Upper
112 100
114 32.8 25.0 37.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

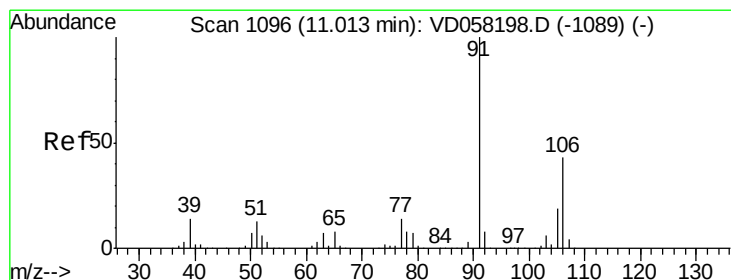
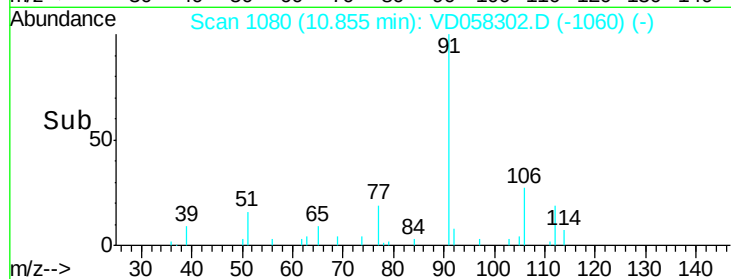
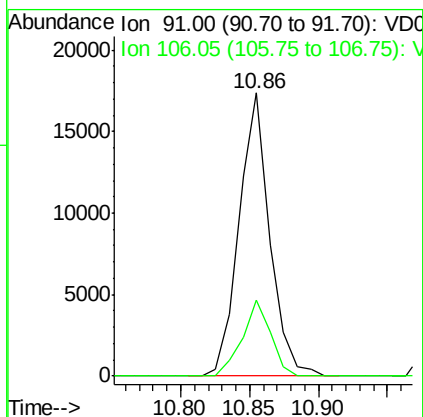
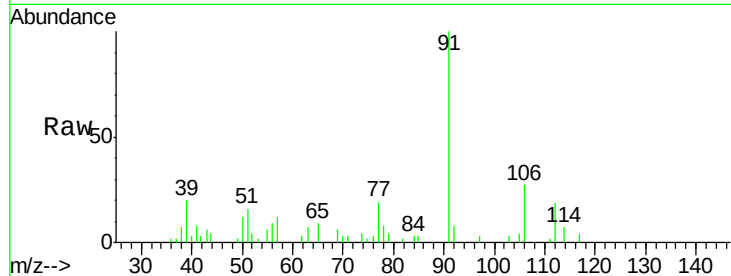




#67
Ethyl Benzene
Concen: 1.121 ug/l
RT: 10.86 min Scan# 1080
Delta R.T. -0.00 min
Lab File: VD058302.D
Acq: 22 Jun 2018 17:54

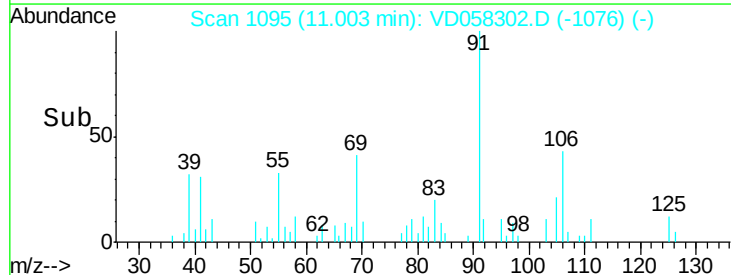
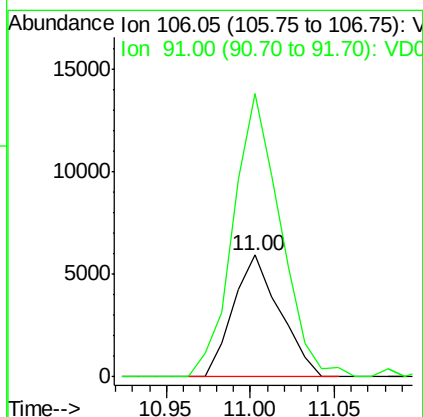
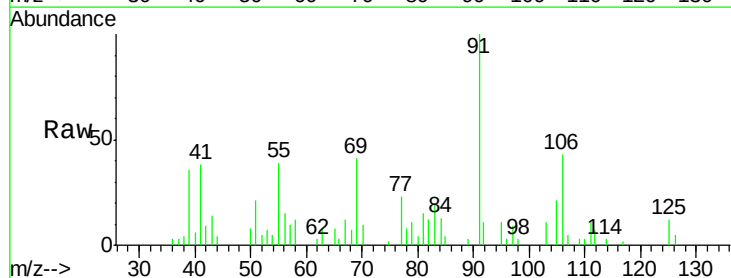
Instrument :
MSVOA_D
ClientSampleId :
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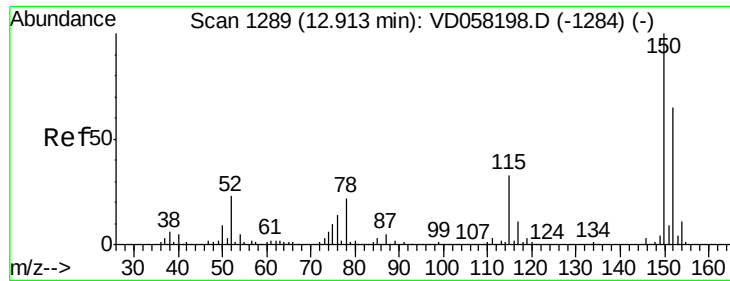
Tgt Ion: 91 Resp: 26966
Ion Ratio Lower Upper
91 100
106 26.8 22.0 33.0



#68
m/p-Xylenes
Concen: 1.417 ug/l
RT: 11.00 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD058302.D
Acq: 22 Jun 2018 17:54

Tgt Ion: 106 Resp: 11370
Ion Ratio Lower Upper
106 100
91 232.3 185.0 277.6

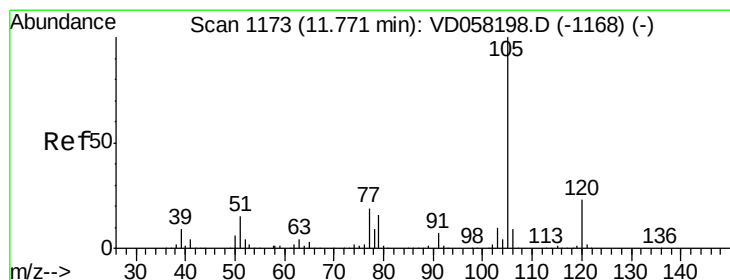
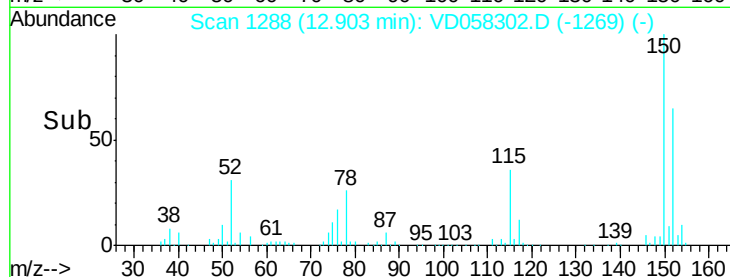
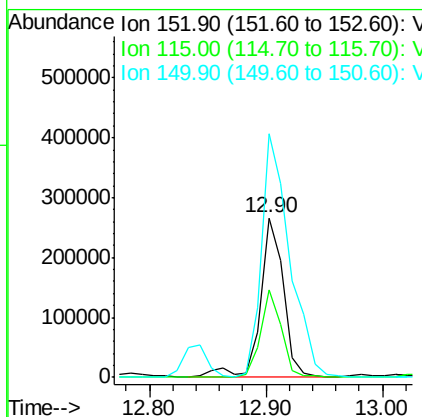
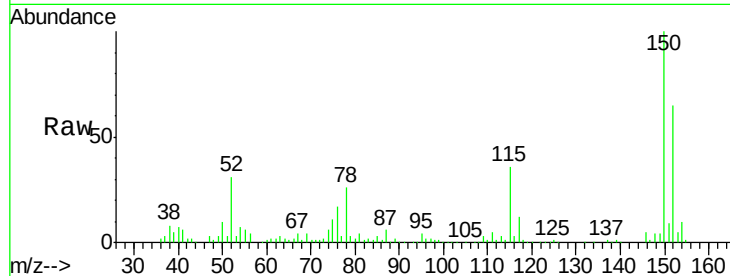




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.90 min Scan# 1288
 Delta R.T. -0.01 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

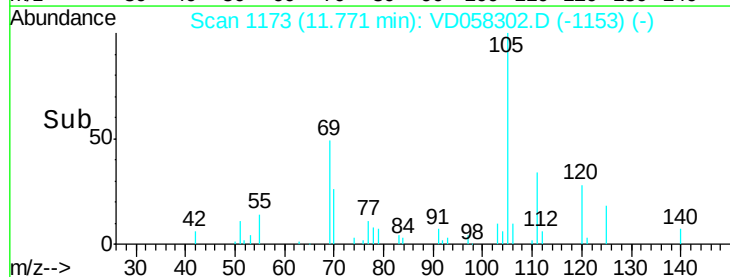
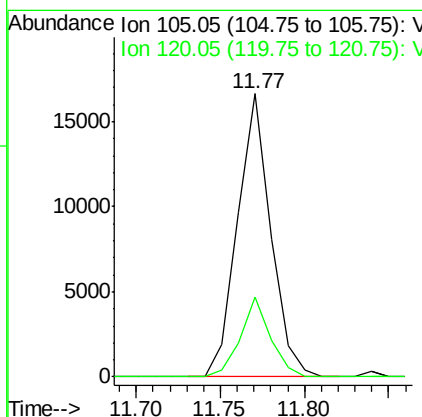
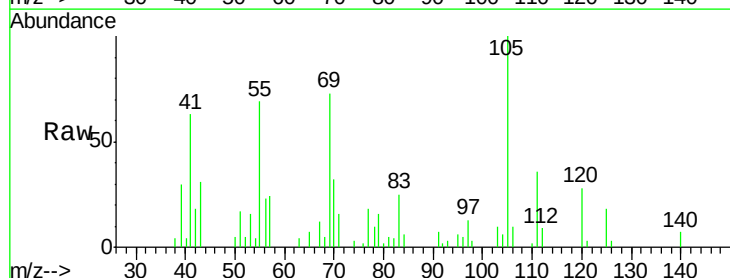
Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-26-28-180618

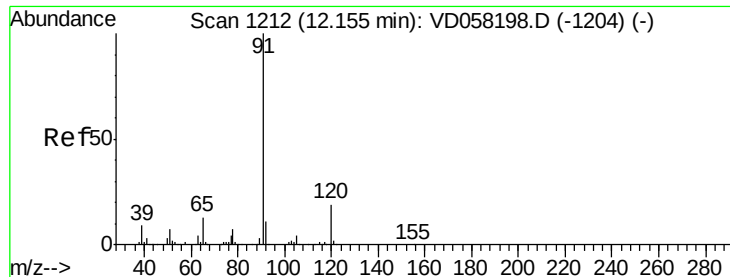
Tgt Ion:152 Resp: 362190
 Ion Ratio Lower Upper
 152 100
 115 54.9 25.1 75.3
 150 152.7 0.0 308.8



#73
 Isopropylbenzene
 Concen: 1.051 ug/l
 RT: 11.77 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Tgt Ion:105 Resp: 22778
 Ion Ratio Lower Upper
 105 100
 120 28.3 11.6 34.8





#78

n-propylbenzene

Concen: 1.352 ug/l

RT: 12.15 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VD058302.D

Acq: 22 Jun 2018 17:54

Instrument :

MSVOA_D

ClientSampleId :

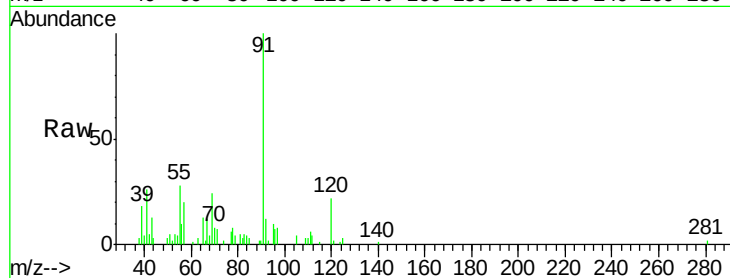
WP021SB472-26-28-180618

Tgt Ion: 91 Resp: 37817

Ion Ratio Lower Upper

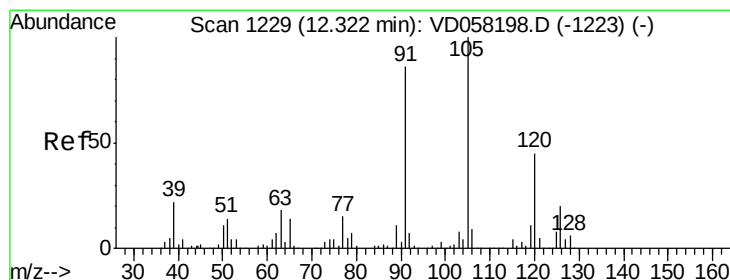
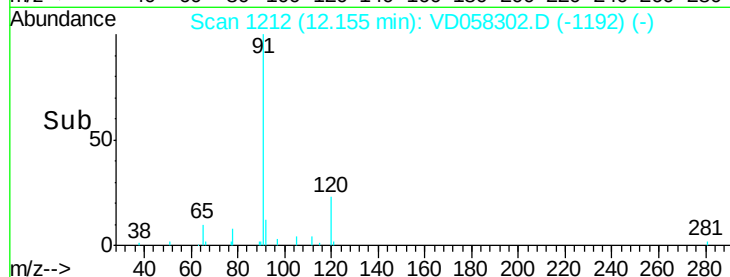
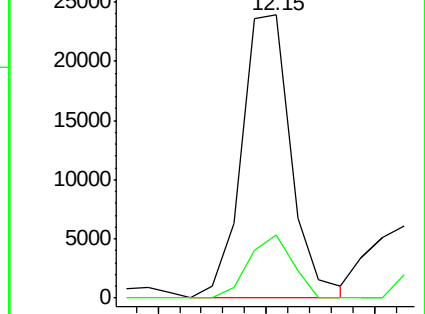
91 100

120 22.3 9.7 29.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V



#80

1,3,5-Trimethylbenzene

Concen: 2.697 ug/l

RT: 12.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VD058302.D

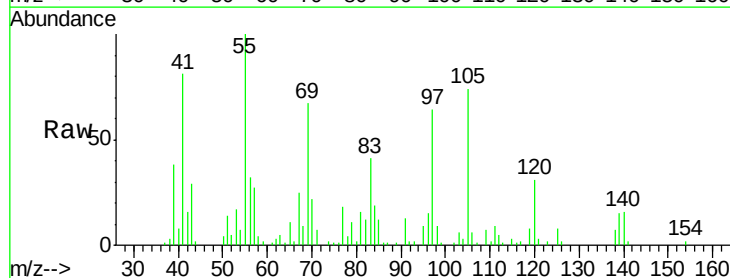
Acq: 22 Jun 2018 17:54

Tgt Ion: 105 Resp: 45577

Ion Ratio Lower Upper

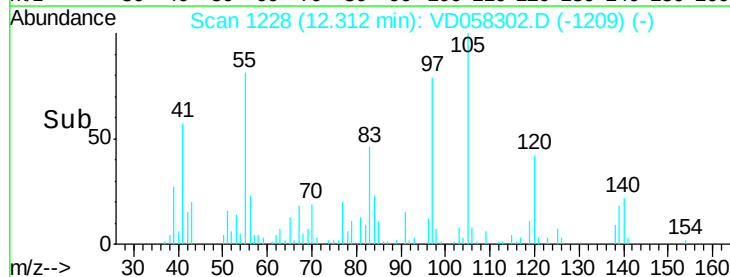
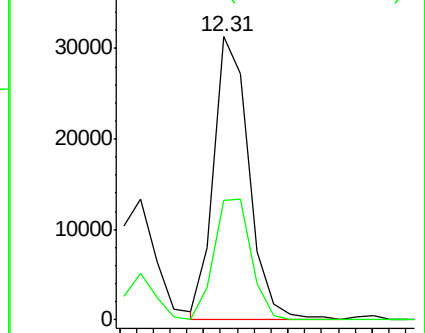
105 100

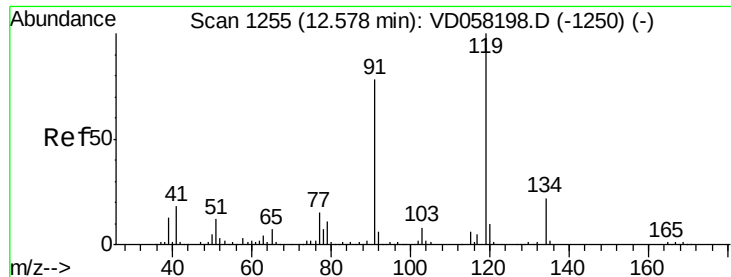
120 42.1 22.5 67.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

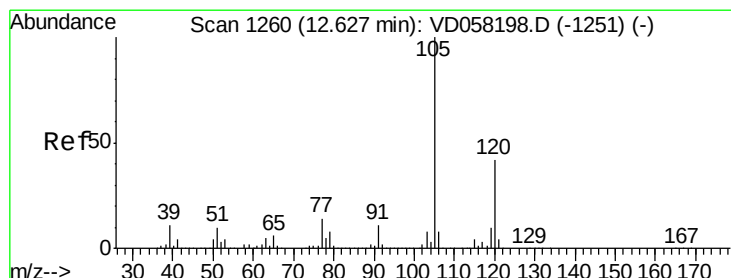
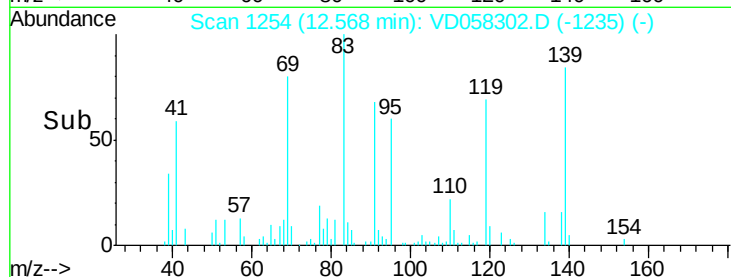
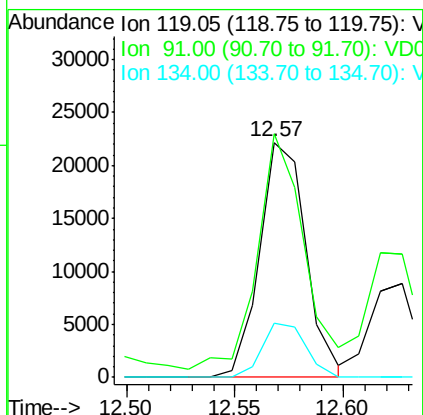
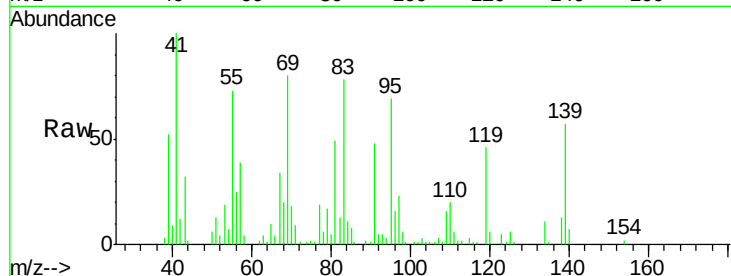




#83
 tert-Butylbenzene
 Concen: 1.707 ug/l
 RT: 12.57 min Scan# 1254
 Delta R.T. -0.01 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

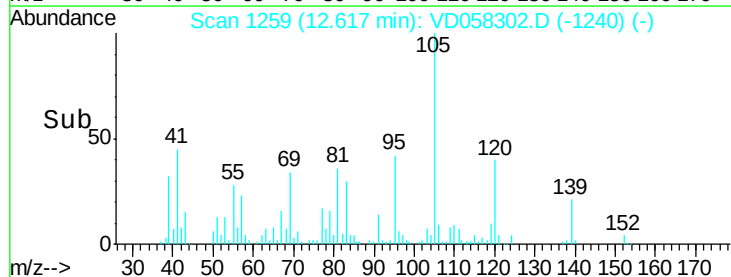
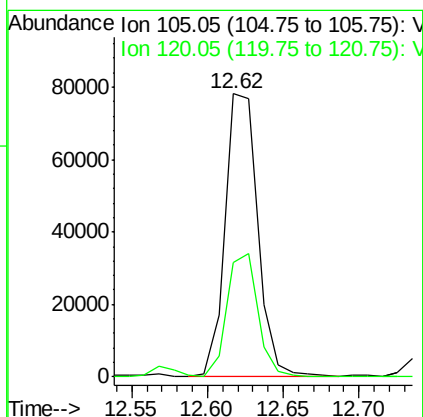
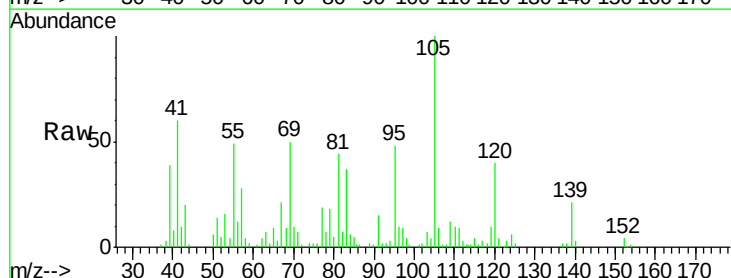
Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-26-28-180618

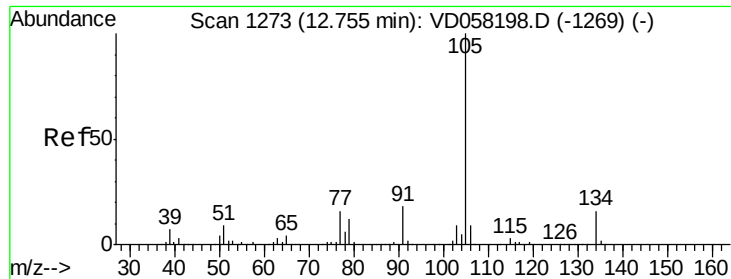
Tgt Ion:119 Resp: 33164
 Ion Ratio Lower Upper
 119 100
 91 103.6 38.9 116.6
 134 22.8 11.2 33.5



#84
 1,2,4-Trimethylbenzene
 Concen: 6.410 ug/l
 RT: 12.62 min Scan# 1259
 Delta R.T. -0.01 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Tgt Ion:105 Resp: 117745
 Ion Ratio Lower Upper
 105 100
 120 40.3 20.8 62.4

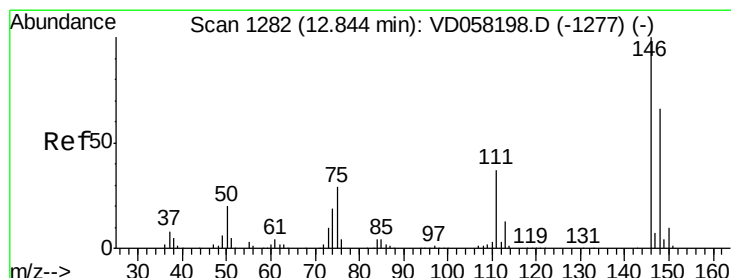
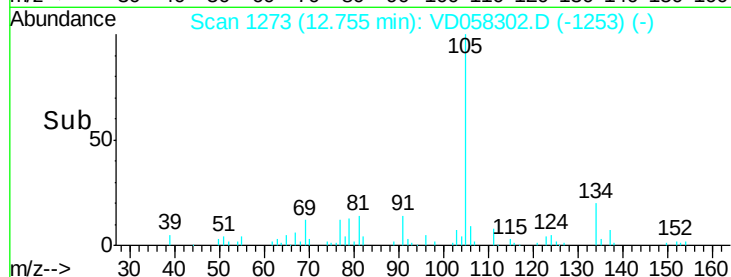
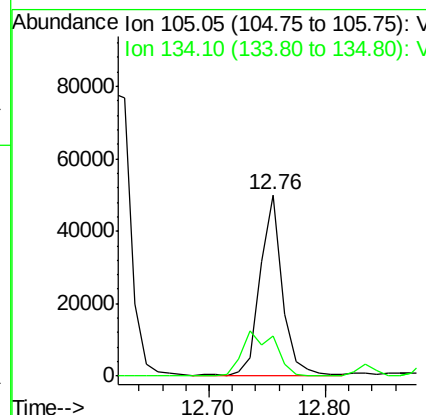
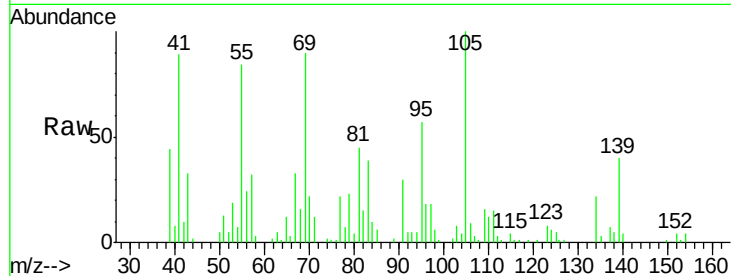




#85
 sec-Butylbenzene
 Concen: 2.950 ug/l
 RT: 12.76 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

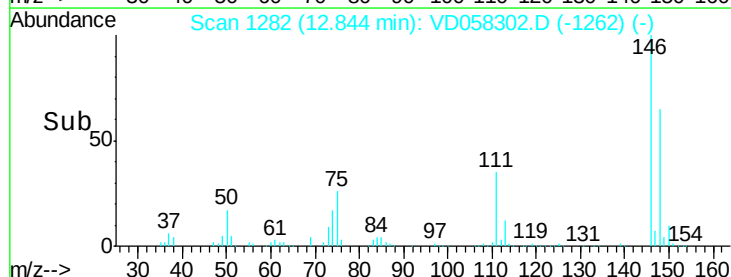
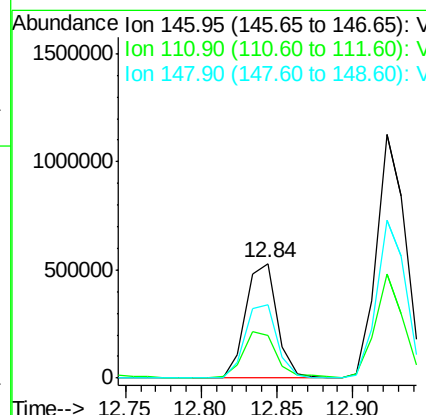
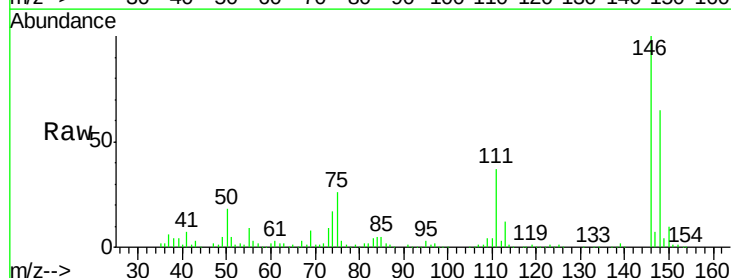
Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-26-28-180618

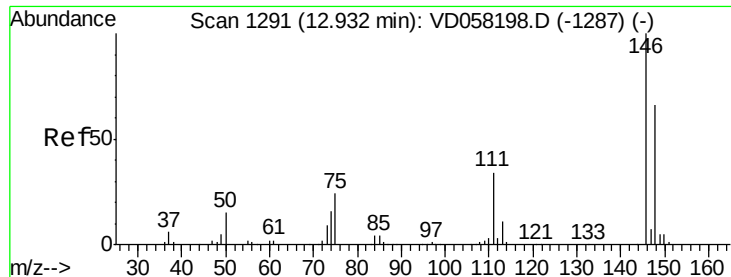
Tgt Ion:105 Resp: 67175
 Ion Ratio Lower Upper
 105 100
 134 22.0 8.1 24.3



#87
 1,3-Dichlorobenzene
 Concen: 68.313 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Tgt Ion:146 Resp: 770266
 Ion Ratio Lower Upper
 146 100
 111 37.5 18.4 55.0
 148 64.5 32.8 98.4

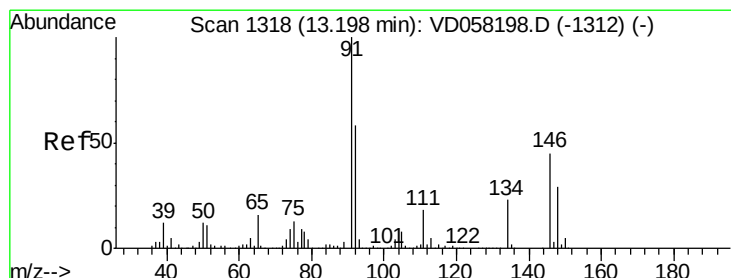
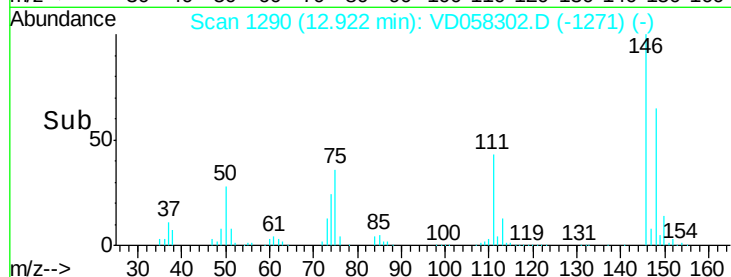
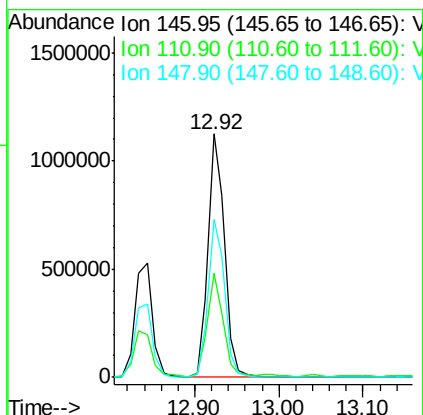
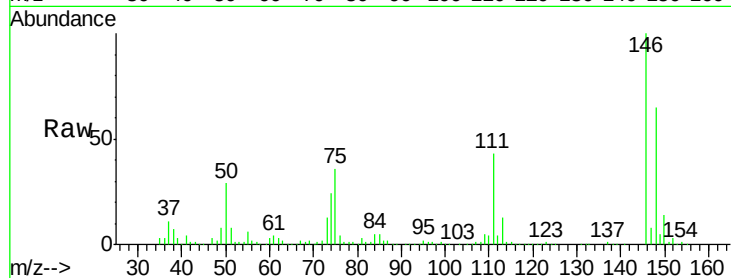




#88
 1,4-Dichlorobenzene
 Concen: 138.453 ug/l
 RT: 12.92 min Scan# 1290
 Delta R.T. -0.01 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

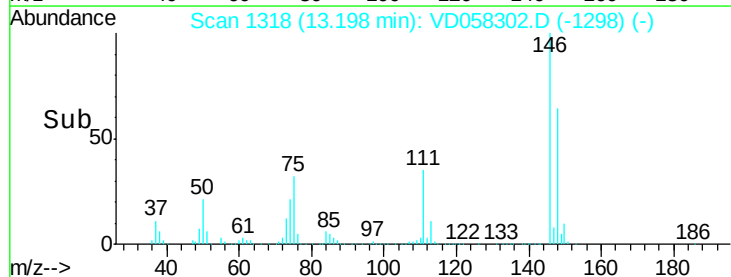
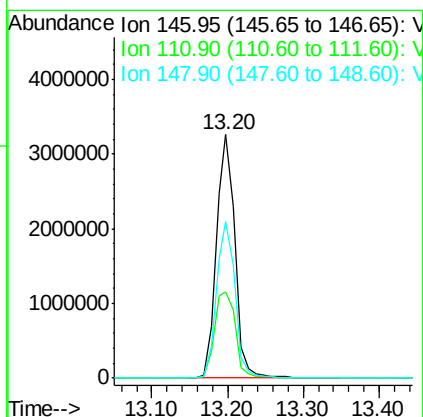
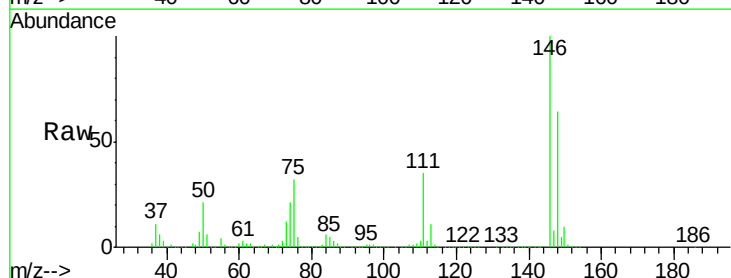
Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-26-28-180618

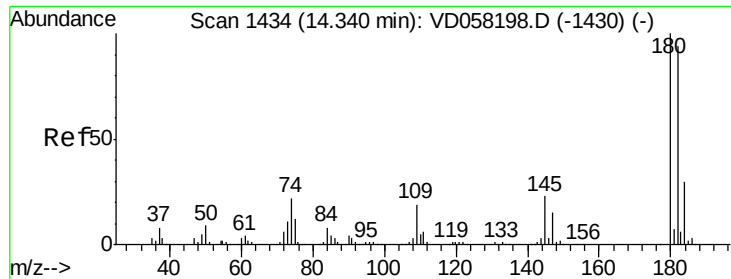
Tgt Ion:146 Resp: 1524490
 Ion Ratio Lower Upper
 146 100
 111 43.0 17.2 51.5
 148 64.8 33.1 99.3



#91
 1,2-Dichlorobenzene
 Concen: 587.534 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Tgt Ion:146 Resp: 5637681
 Ion Ratio Lower Upper
 146 100
 111 35.4 19.6 58.7
 148 64.1 32.0 96.2

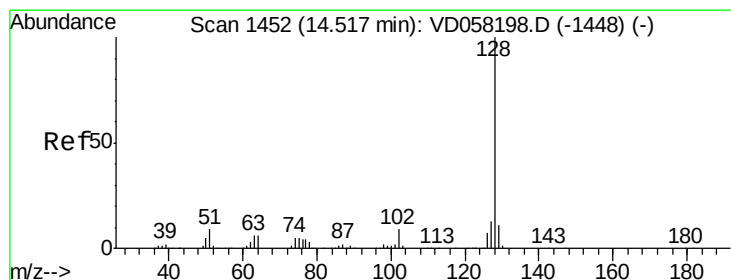
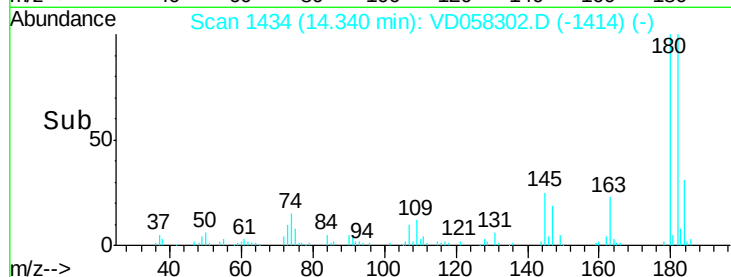
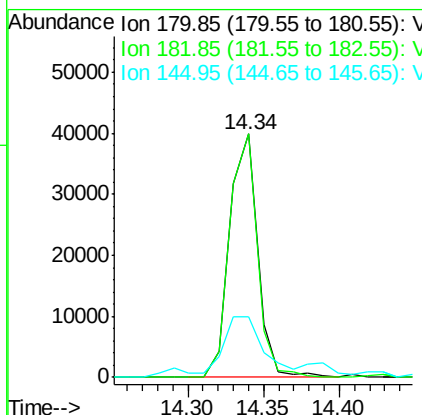
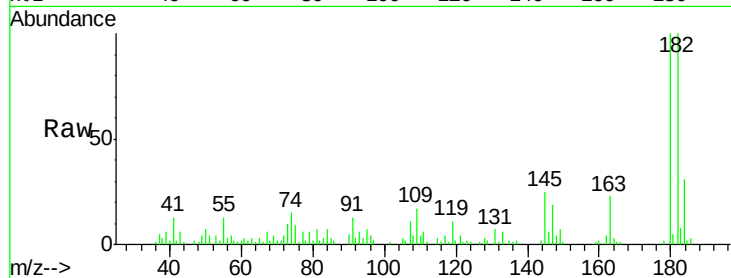




#93
 1,2,4-Trichlorobenzene
 Concen: 5.598 ug/l
 RT: 14.34 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

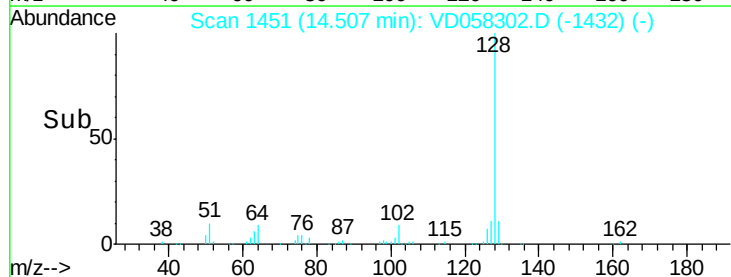
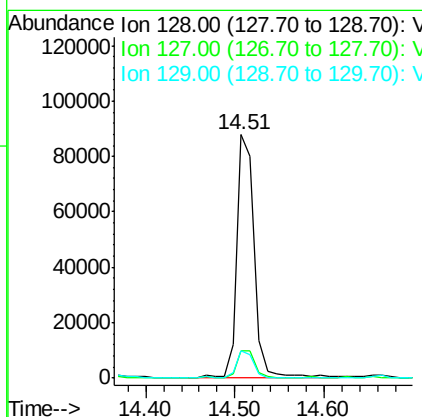
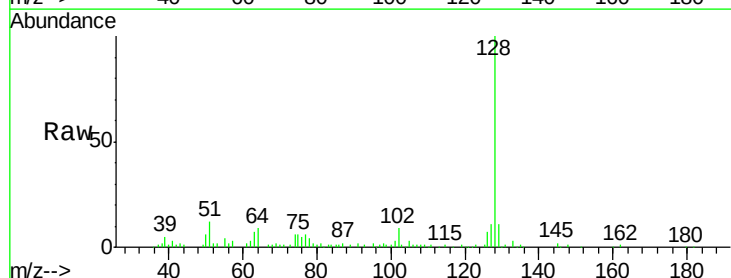
Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-26-28-180618

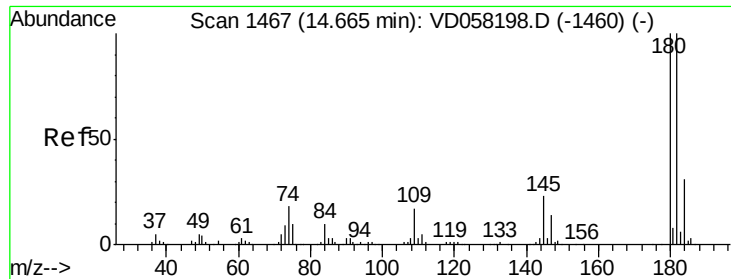
Tgt Ion:180 Resp: 51379
 Ion Ratio Lower Upper
 180 100
 182 100.2 47.1 141.3
 145 25.1 11.7 35.0



#95
 Naphthalene
 Concen: 10.061 ug/l
 RT: 14.51 min Scan# 1451
 Delta R.T. -0.01 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Tgt Ion:128 Resp: 121622
 Ion Ratio Lower Upper
 128 100
 127 11.3 10.0 15.0
 129 11.2 8.7 13.1

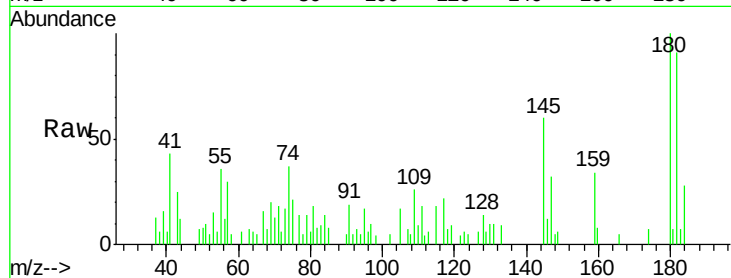




#96
 1,2,3-Trichlorobenzene
 Concen: 1.196 ug/l
 RT: 14.65 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: VD058302.D
 Acq: 22 Jun 2018 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-26-28-180618

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.2	49.9	149.6
145	60.2	11.7	35.1



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

