

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062518\
 Data File : VD059409.D
 Acq On : 25 Jun 2018 20:02
 Operator : VA/AP
 Sample : J3664-04
 Misc : 6.43g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB482-17-19-180619RE

Quant Time: Jun 26 06:48:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	653615	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	6.68	114	801109	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	610922	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.90	152	320187	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.00	65	264622	39.59	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	79.18%	
35) Dibromofluoromethane	5.54	113	246252	37.74	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	75.48%	
50) Toluene-d8	8.70	98	570349	37.39	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	74.78%	
62) 4-Bromofluorobenzene	11.92	95	252329	39.77	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	79.54%	

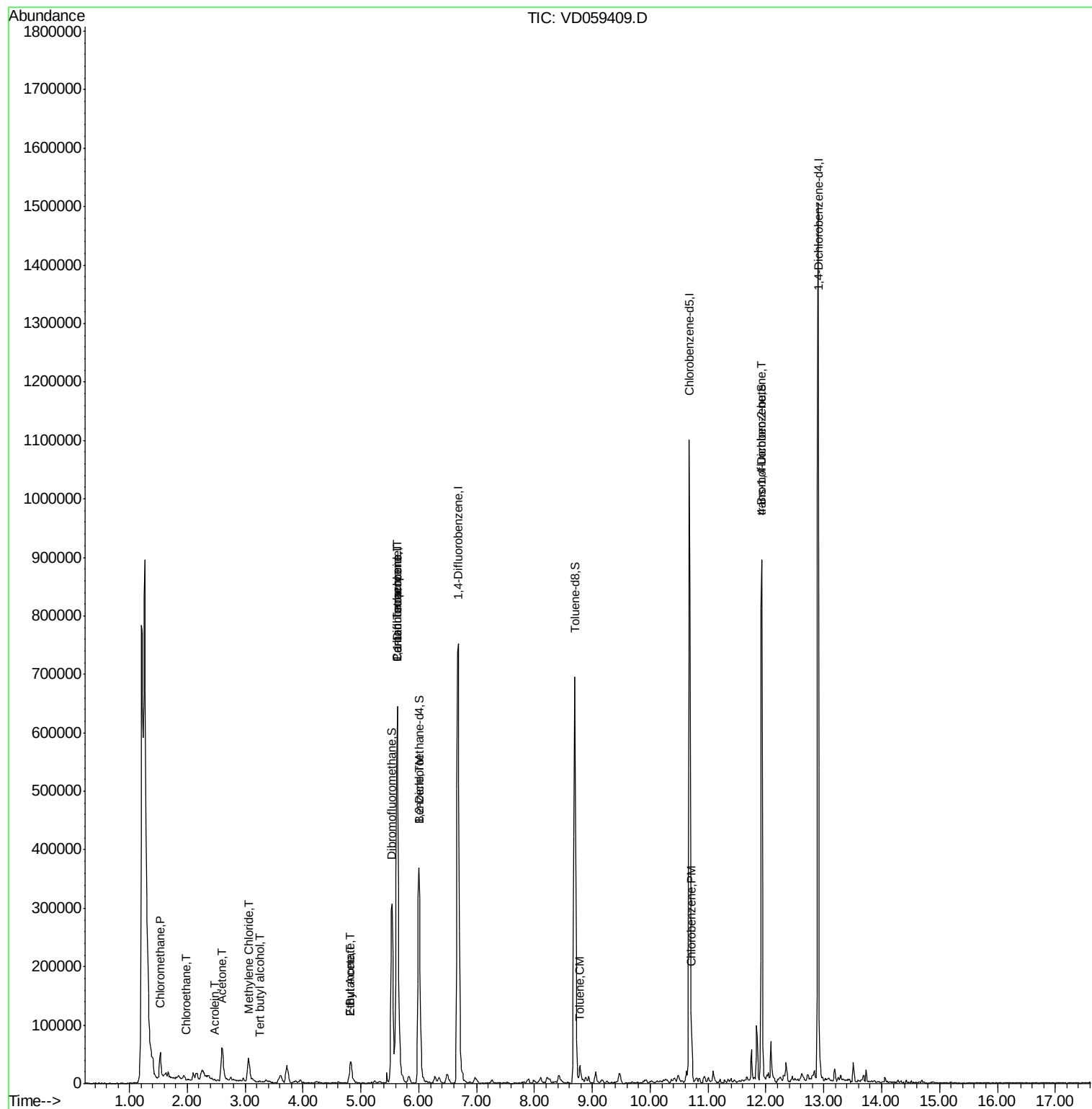
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.52	50	3127	1.033	ug/l #	85
5) Bromomethane	1.79	94	637	Below Cal	#	4
6) Chloroethane	1.98	64	191	2.034	ug/l #	41
11) Tert butyl alcohol	3.24	59	515	2.227	ug/l #	72
13) Acrolein	2.47	56	451	2.182	ug/l #	16
16) Acetone	2.60	43	123080	145.899	ug/l	97
18) Methyl Acetate	2.93	43	2678	Below Cal	#	66
20) Methylene Chloride	3.06	84	17976	5.461	ug/l	87
25) 2-Butanone	4.82	43	59084	33.434	ug/l	98
31) Cyclohexane	5.62	56	20335	Below Cal	#	12
36) 1,1-Dichloropropene	5.63	75	49803	6.853	ug/l #	55
37) Ethyl Acetate	4.82	43	59084	13.350	ug/l #	73
38) Carbon Tetrachloride	5.63	117	50843	6.786	ug/l #	15
40) Benzene	6.00	78	130216	7.467	ug/l	96
52) Toluene	8.79	92	14033	1.347	ug/l	87
65) Chlorobenzene	10.72	112	30540	2.734	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.92	75	116065	115.623	ug/l #	1

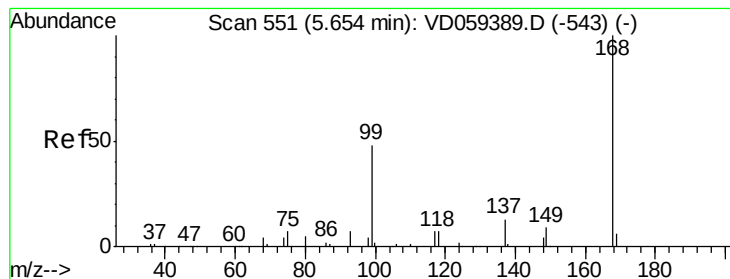
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062518\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.03 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

Instrument :

MSVOA_D

ClientSampleId :

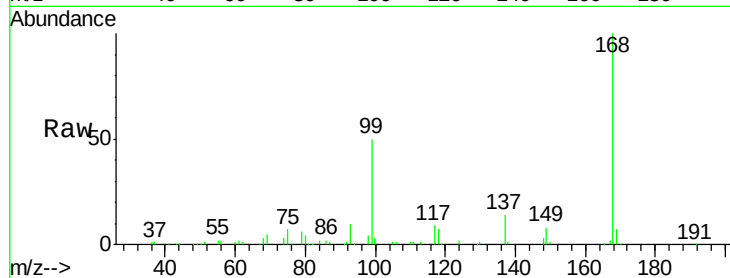
WP021SB482-17-19-180619RE

Tot Ion:168 Resp: 653615

Ion Ratio Lower Upper

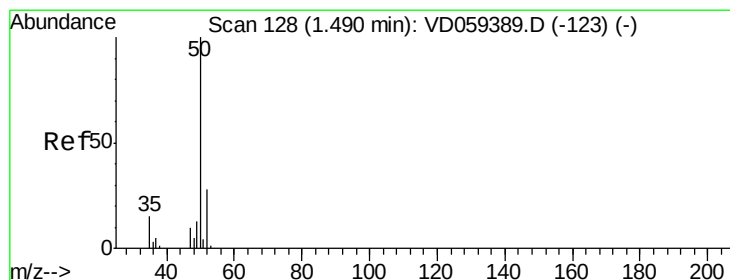
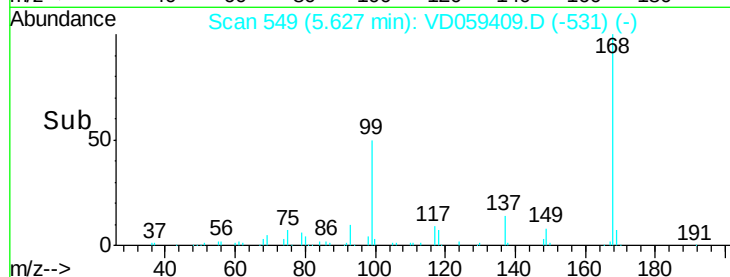
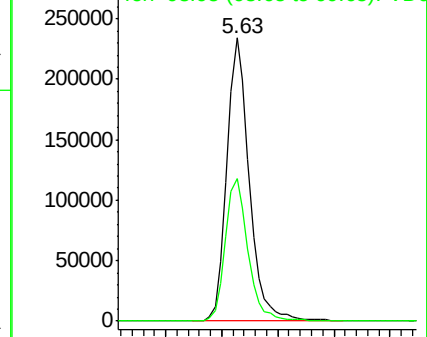
168 100

99 50.3 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.033 ug/l

RT: 1.52 min Scan# 132

Delta R.T. 0.03 min

Lab File: VD059409.D

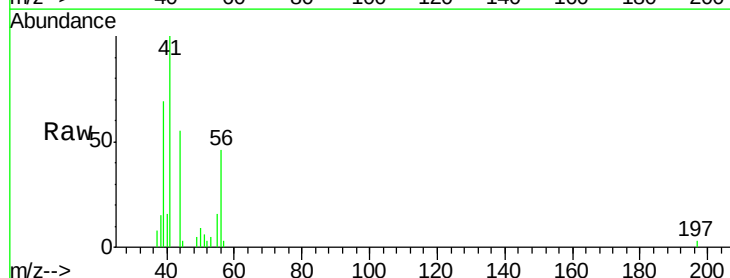
Acq: 25 Jun 2018 20:02

Tgt Ion: 50 Resp: 3127

Ion Ratio Lower Upper

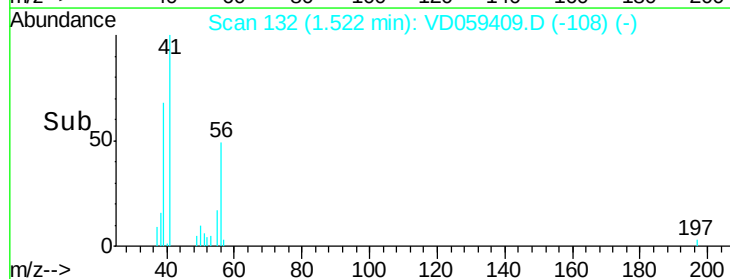
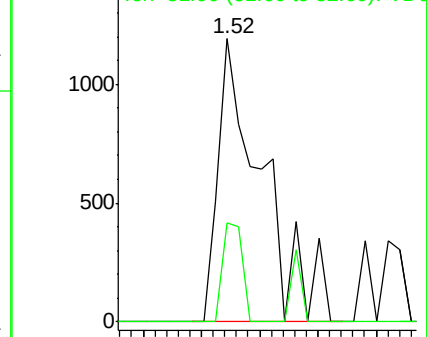
50 100

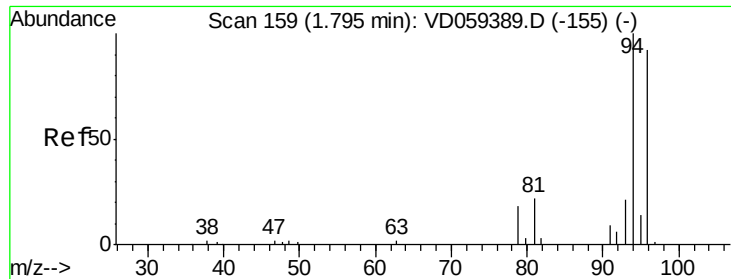
52 35.1 21.8 32.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 1.79 min Scan# 159

Delta R.T. -0.01 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

Instrument :

MSVOA_D

ClientSampleId :

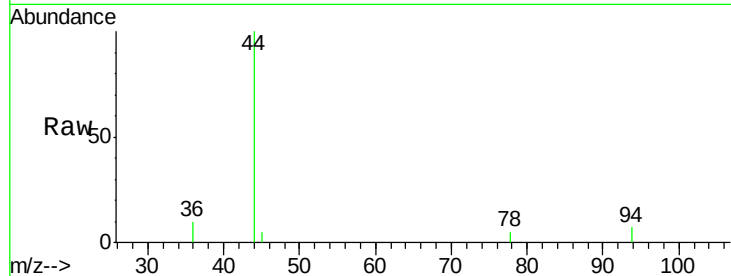
WP021SB482-17-19-180619RE

Tot Ion: 94 Resp: 637

Ion Ratio Lower Upper

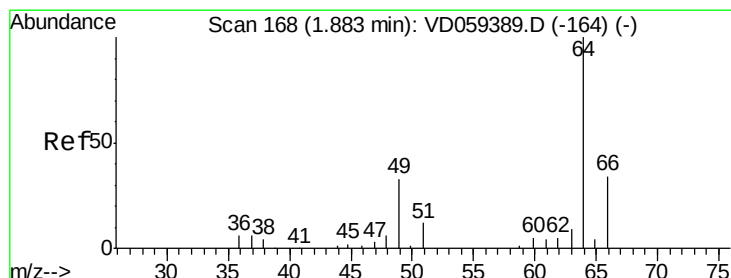
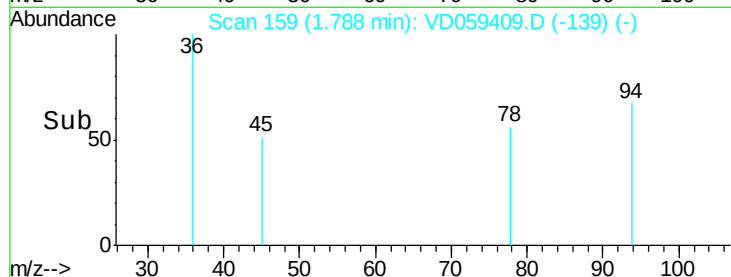
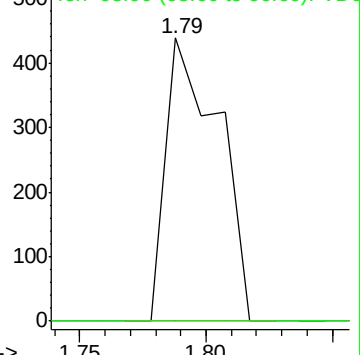
94 100

96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 2.034 ug/l

RT: 1.98 min Scan# 179

Delta R.T. 0.10 min

Lab File: VD059409.D

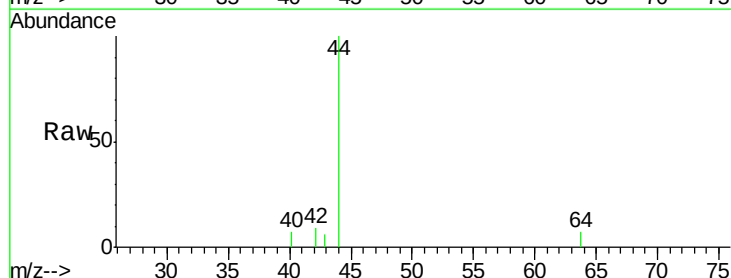
Acq: 25 Jun 2018 20:02

Tgt Ion: 64 Resp: 191

Ion Ratio Lower Upper

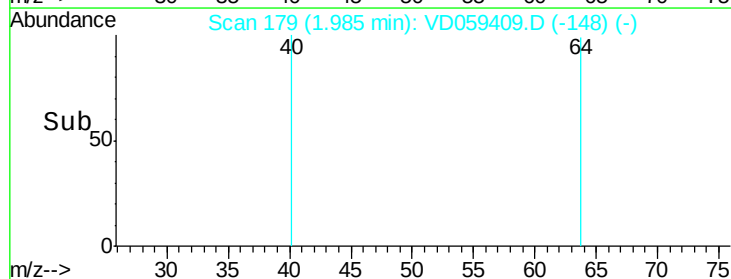
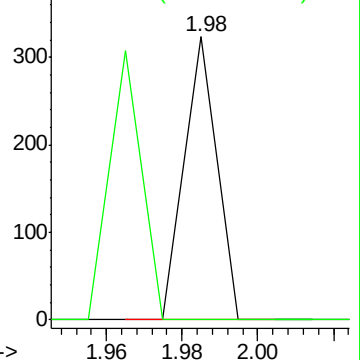
64 100

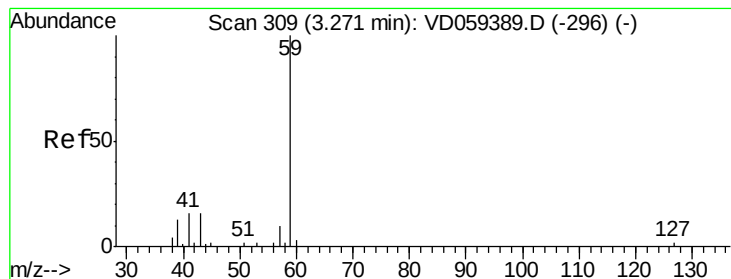
66 0.0 27.1 40.7#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



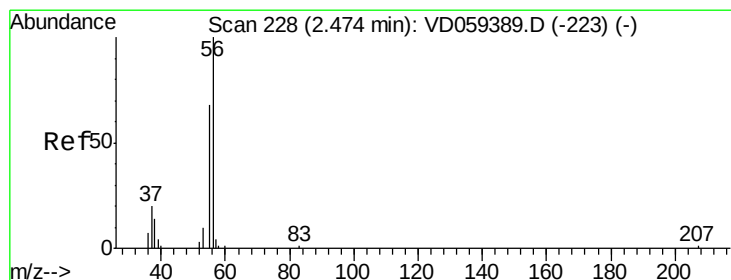
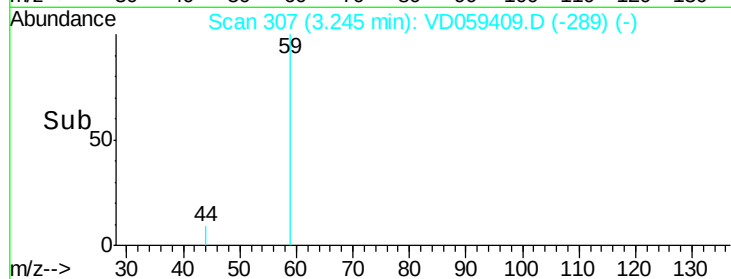
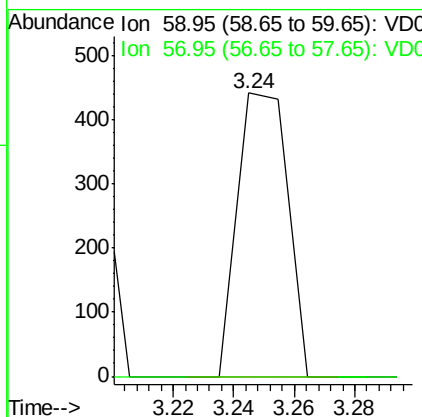
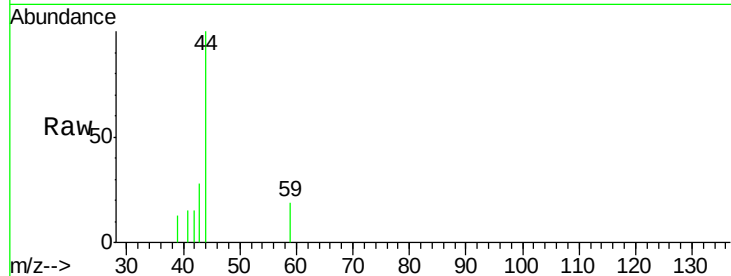


#11

Tert butyl alcohol
 Concen: 2.227 ug/l
 RT: 3.24 min Scan# 307
 Delta R.T. -0.03 min
 Lab File: VD059409.D
 Acq: 25 Jun 2018 20:02

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB482-17-19-180619RE

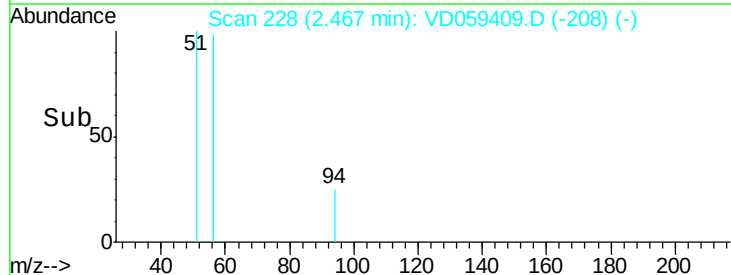
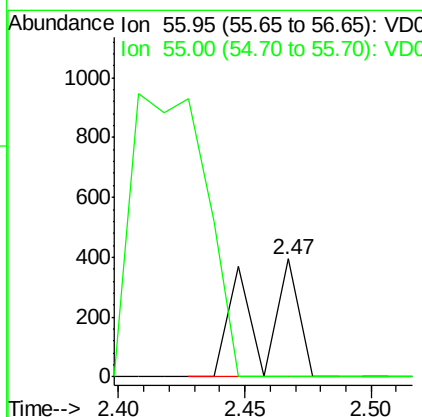
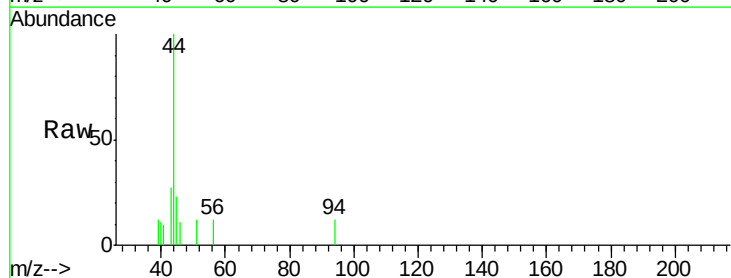
Tot Ion: 59 Resp: 515
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

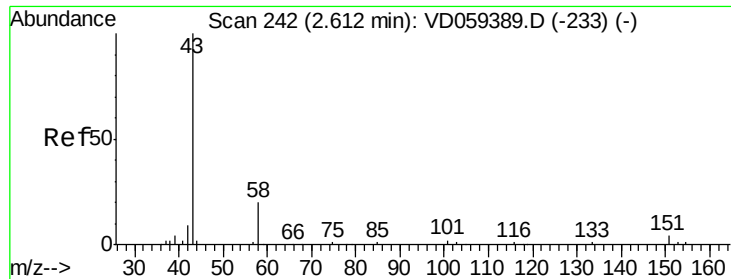


#13

Acrolein
 Concen: 2.182 ug/l
 RT: 2.47 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VD059409.D
 Acq: 25 Jun 2018 20:02

Tgt Ion: 56 Resp: 451
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.6 82.0#





#16

Acetone

Concen: 145.899 ug/l

RT: 2.60 min Scan# 241

Delta R.T. -0.02 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

Instrument :

MSVOA_D

ClientSampleId :

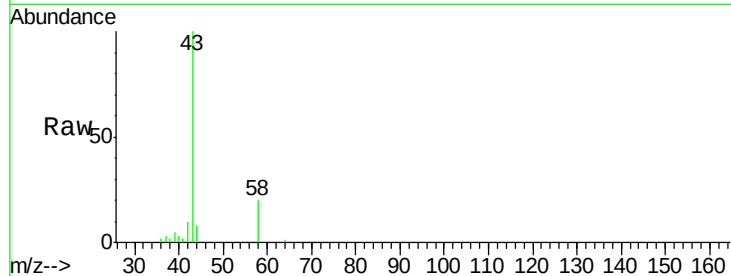
WP021SB482-17-19-180619RE

Tot Ion: 43 Resp: 123080

Ion Ratio Lower Upper

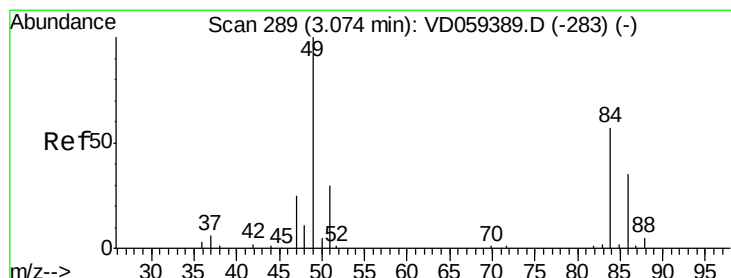
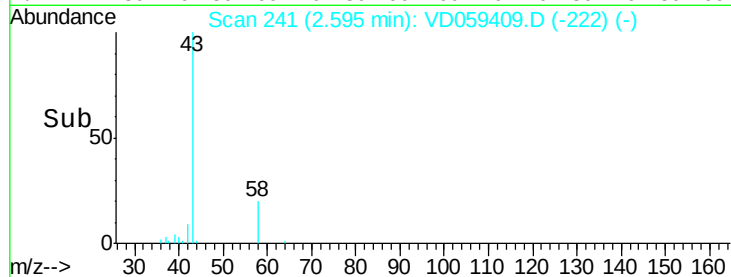
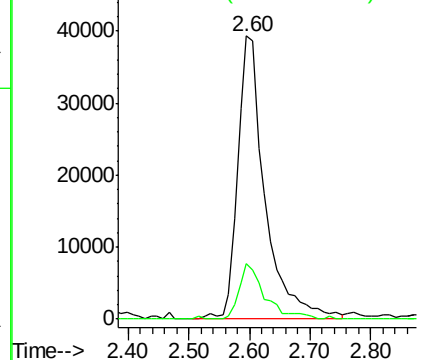
43 100

58 19.6 16.8 25.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 5.461 ug/l

RT: 3.06 min Scan# 288

Delta R.T. -0.02 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

Tgt Ion: 84 Resp: 17976

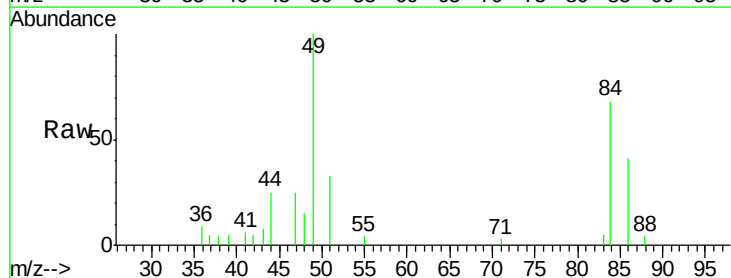
Ion Ratio Lower Upper

84 100

49 147.2 140.3 210.5

51 48.7 41.6 62.4

86 60.7 49.4 74.2

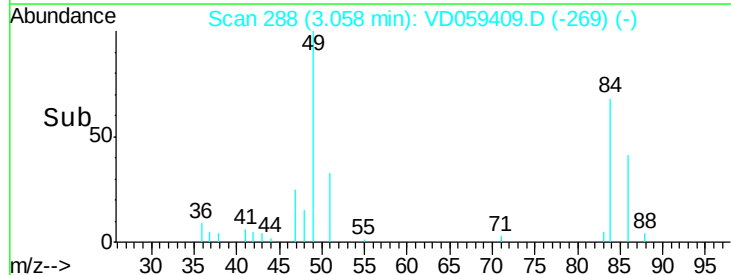
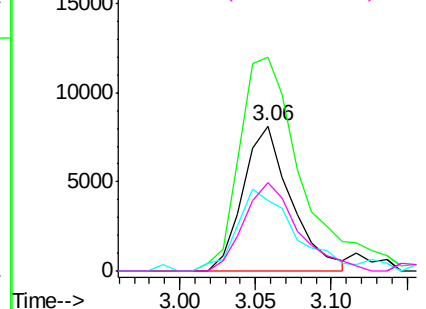


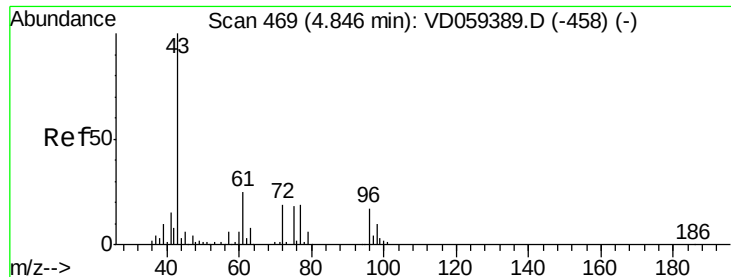
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#25

2-Butanone

Concen: 33.434 ug/l

RT: 4.82 min Scan# 467

Delta R.T. -0.03 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

Instrument :

MSVOA_D

ClientSampleId :

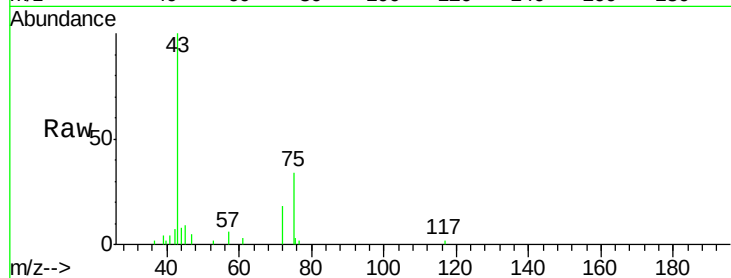
WP021SB482-17-19-180619RE

Tot Ion: 43 Resp: 59084

Ion Ratio Lower Upper

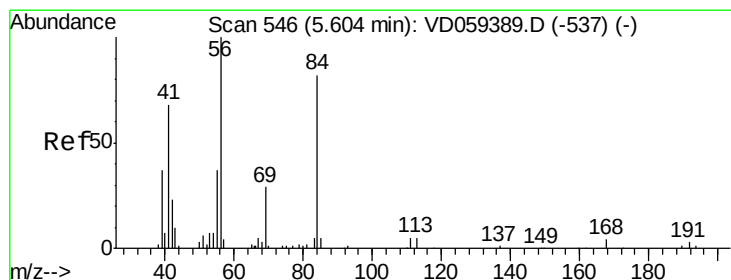
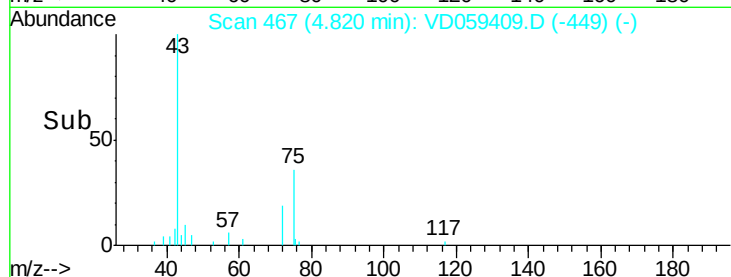
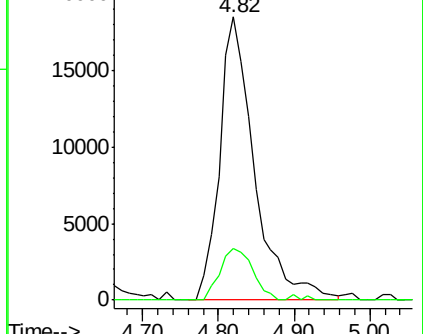
43 100

72 18.3 15.4 23.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 5.62 min Scan# 548

Delta R.T. 0.01 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

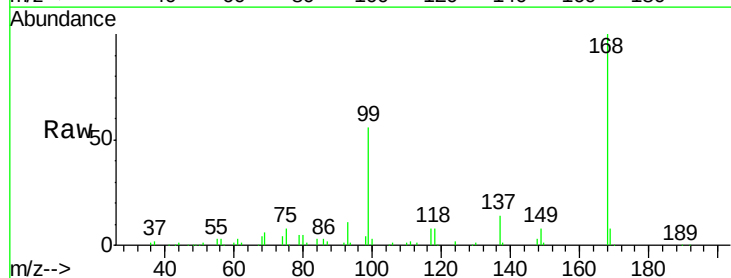
Tgt Ion: 56 Resp: 20335

Ion Ratio Lower Upper

56 100

69 198.2 22.9 34.3#

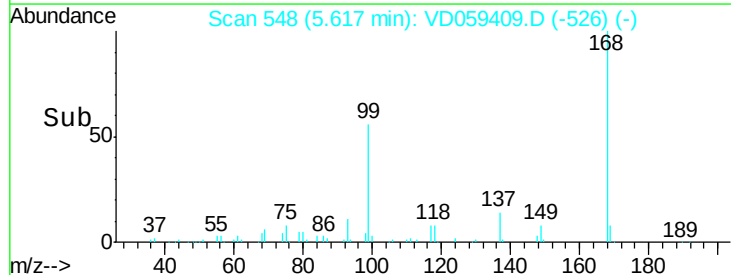
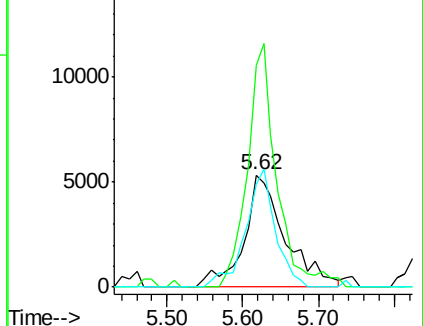
84 92.1 67.3 100.9

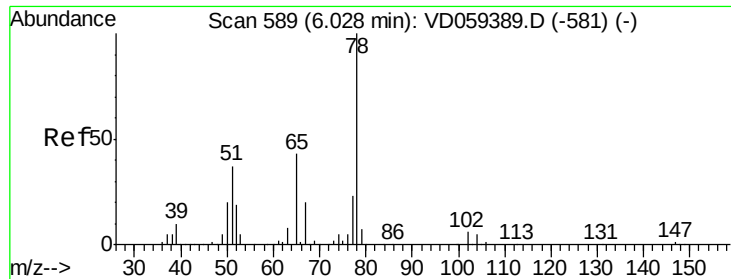


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

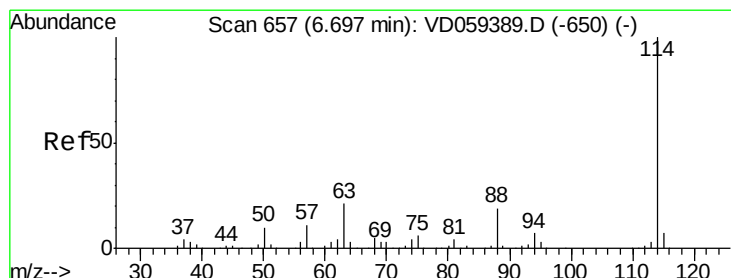
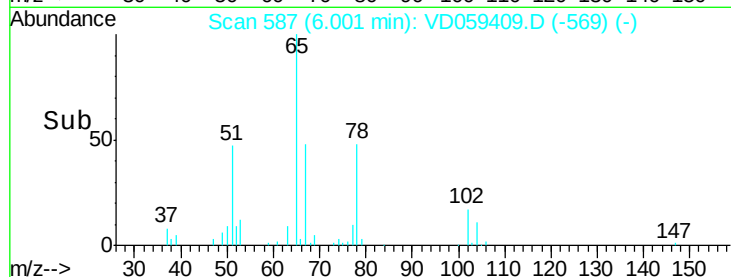
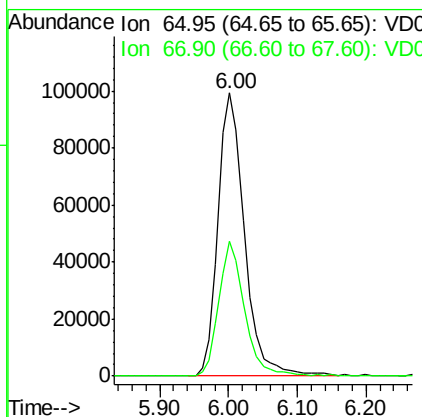
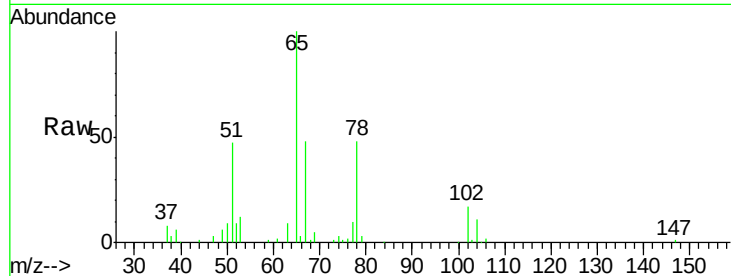




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.00 min Scan# 587
 Delta R.T. -0.03 min
 Lab File: VD059409.D
 Acq: 25 Jun 2018 20:02

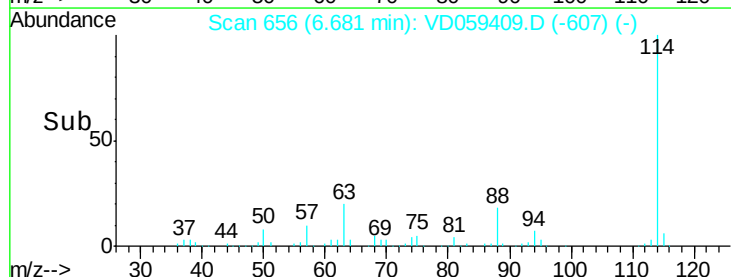
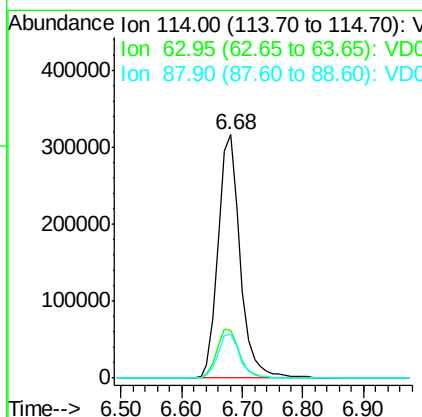
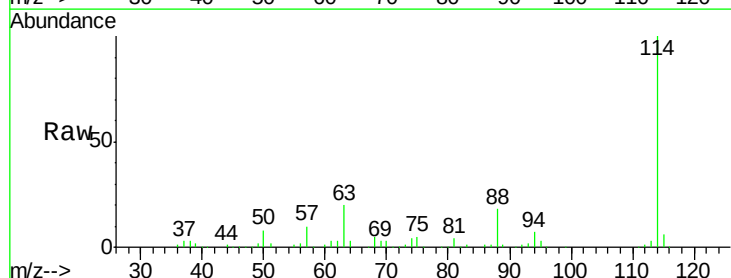
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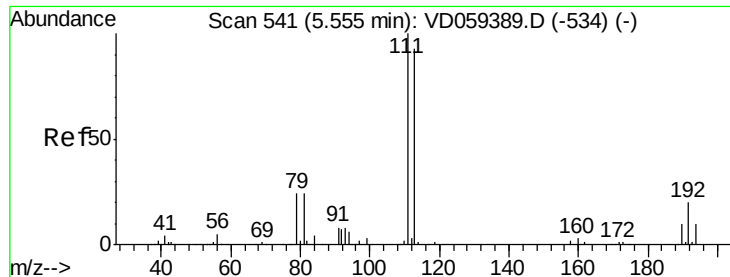
Tot Ion: 65 Resp: 264622
 Ion Ratio Lower Upper
 65 100
 67 47.6 0.0 93.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD059409.D
 Acq: 25 Jun 2018 20:02

Tgt Ion: 114 Resp: 801109
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 42.4
 88 17.9 0.0 38.0

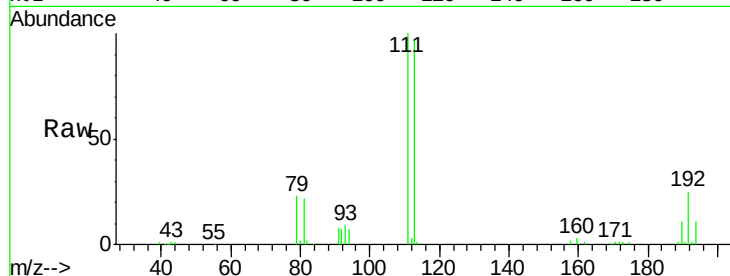




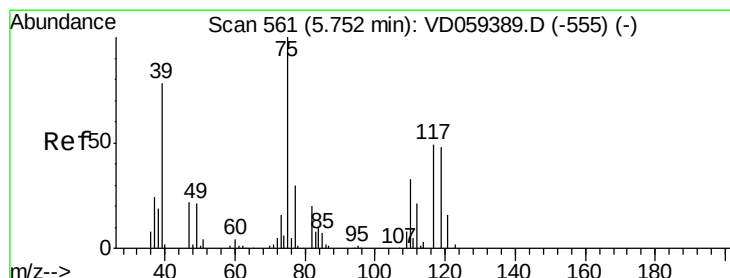
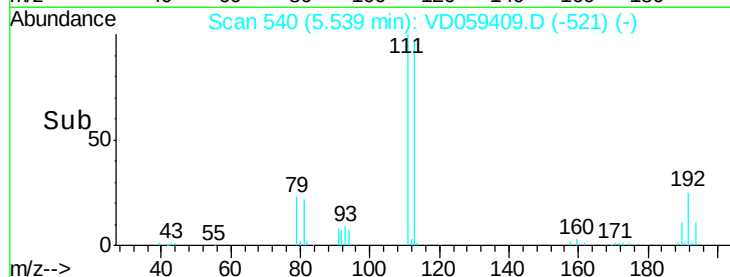
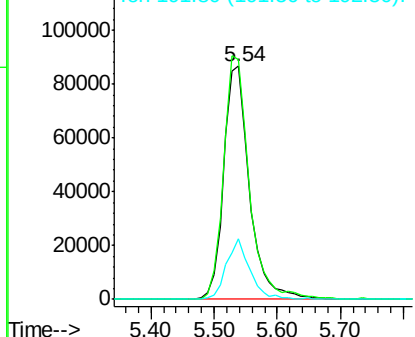
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.54 min Scan# 540
Delta R.T. -0.02 min
Lab File: VD059409.D
Acq: 25 Jun 2018 20:02

Instrument :
MSVOA_D
ClientSampleId :
WP021SB482-17-19-180619RE

Tot Ion:113 Resp: 246252
Ion Ratio Lower Upper
113 100
111 102.7 85.7 128.5
192 26.0 16.9 25.3#

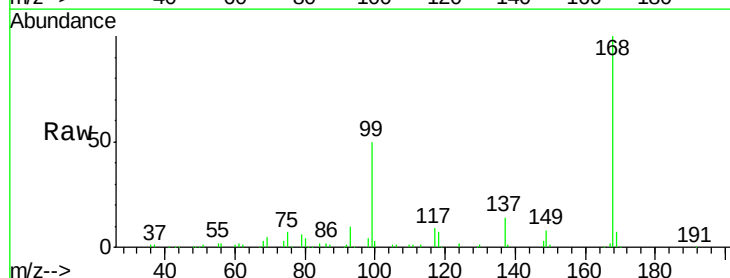


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

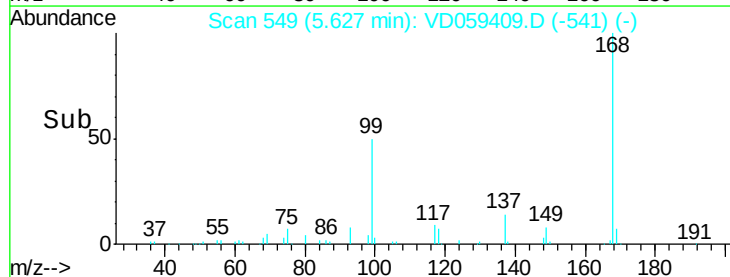
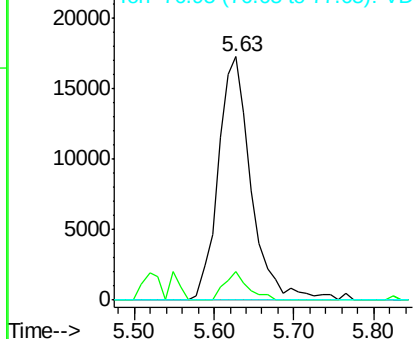


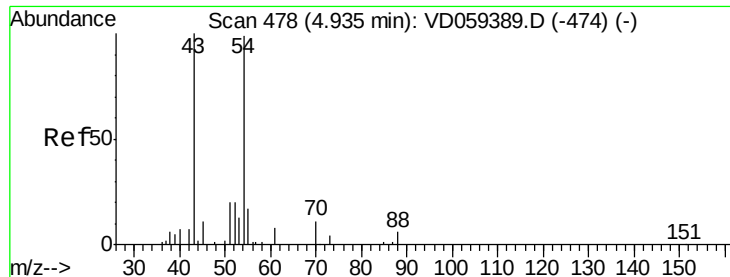
#36
1,1-Dichloropropene
Concen: 6.853 ug/l
RT: 5.63 min Scan# 549
Delta R.T. -0.12 min
Lab File: VD059409.D
Acq: 25 Jun 2018 20:02

Tgt Ion: 75 Resp: 49803
Ion Ratio Lower Upper
75 100
110 11.5 16.1 48.2#
77 0.0 23.4 35.2#



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: 13.350 ug/l

RT: 4.82 min Scan# 467

Delta R.T. -0.12 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

Instrument :

MSVOA_D

ClientSampleId :

WP021SB482-17-19-180619RE

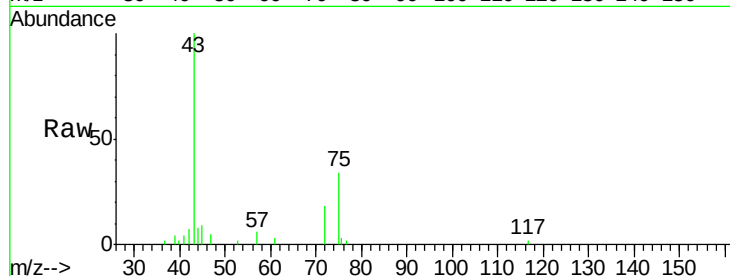
Tot Ion: 43 Resp: 59084

Ion Ratio Lower Upper

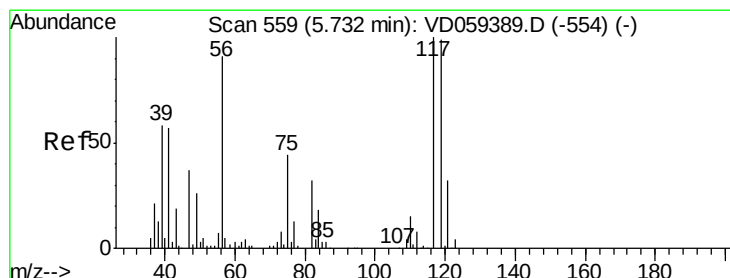
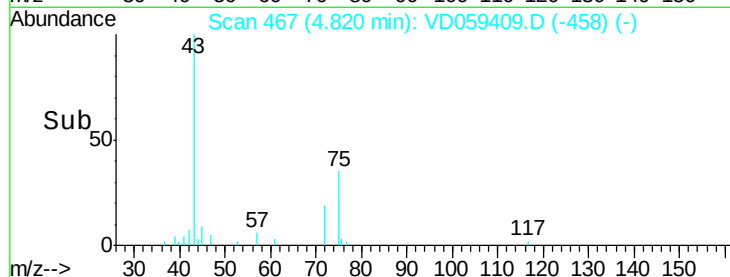
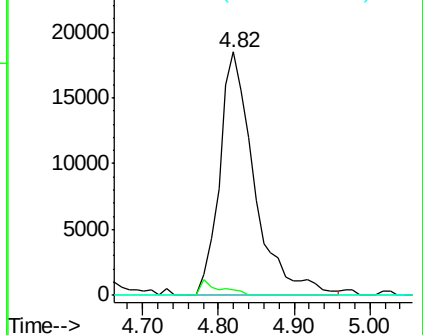
43 100

61 2.5 11.8 17.8#

70 0.0 6.1 9.1#



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



#38

Carbon Tetrachloride

Concen: 6.786 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.11 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

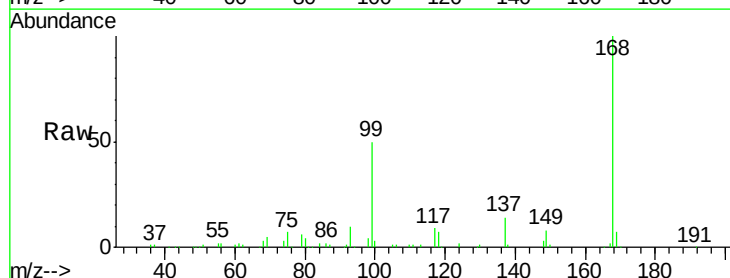
Tgt Ion: 117 Resp: 50843

Ion Ratio Lower Upper

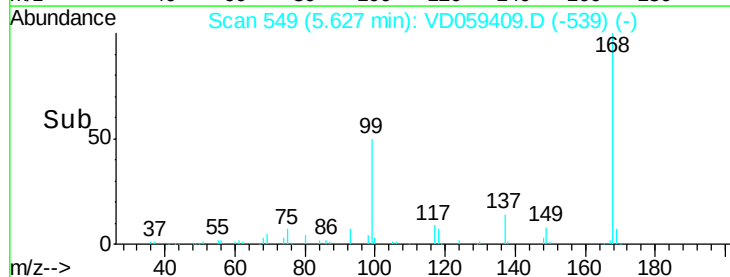
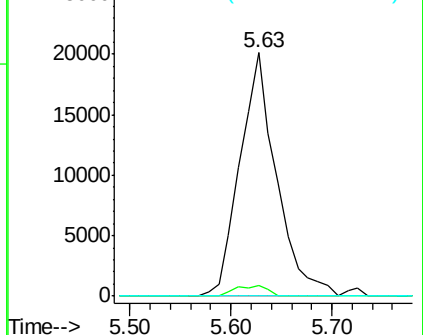
117 100

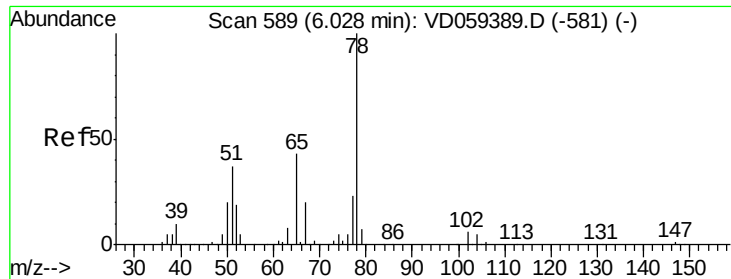
119 4.4 76.6 115.0#

121 0.0 25.0 37.4#



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





#40

Benzene

Concen: 7.467 ug/l

RT: 6.00 min Scan# 587

Delta R.T. -0.03 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

Instrument :

MSVOA_D

ClientSampleId :

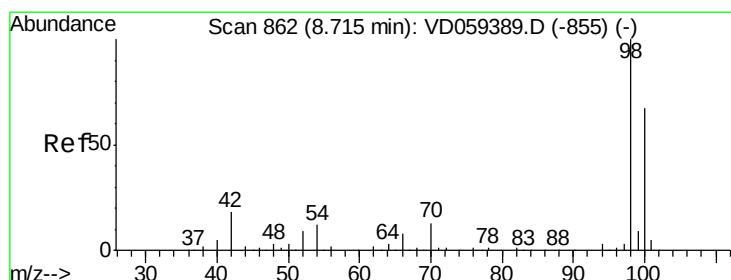
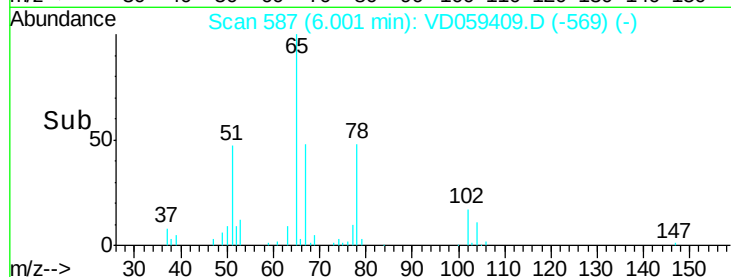
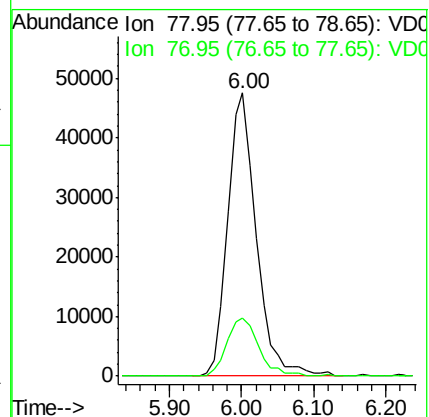
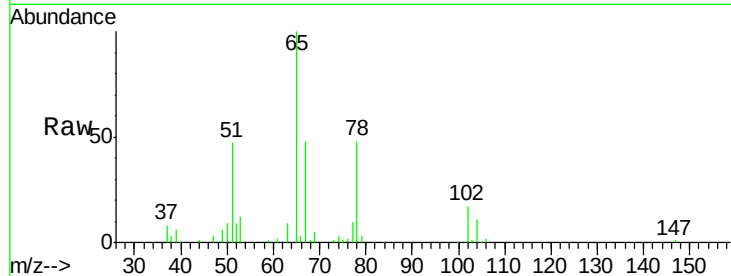
WP021SB482-17-19-180619RE

Tot Ion: 78 Resp: 130216

Ion Ratio Lower Upper

78 100

77 20.5 18.1 27.1



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.02 min

Lab File: VD059409.D

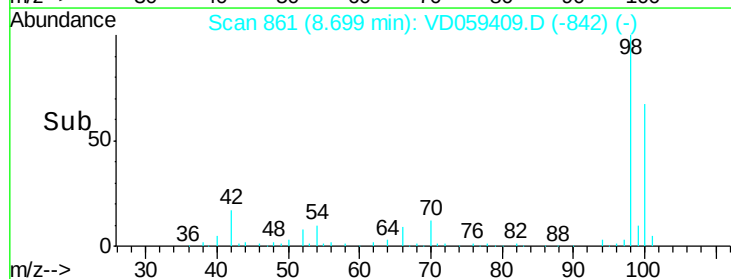
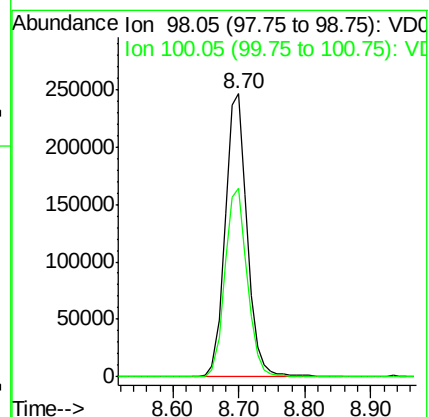
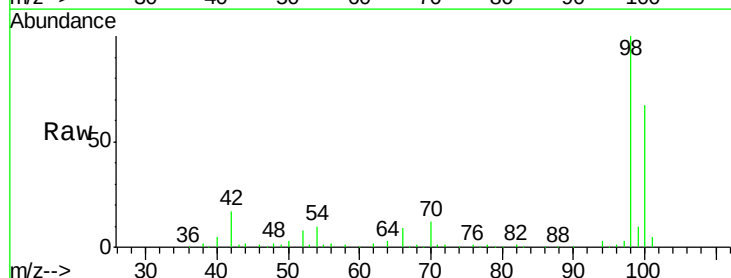
Acq: 25 Jun 2018 20:02

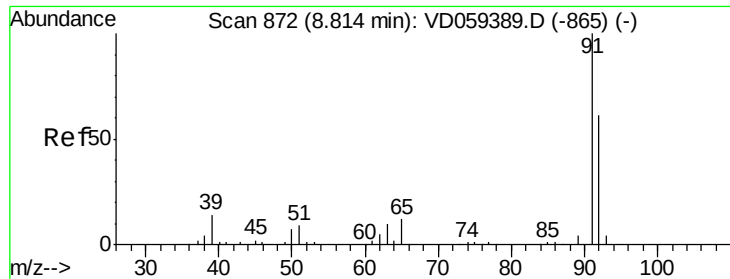
Tgt Ion: 98 Resp: 570349

Ion Ratio Lower Upper

98 100

100 66.9 54.4 81.6





#52

Toluene

Concen: 1.347 ug/l

RT: 8.79 min Scan# 870

Delta R.T. -0.03 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

Instrument :

MSVOA_D

ClientSampleId :

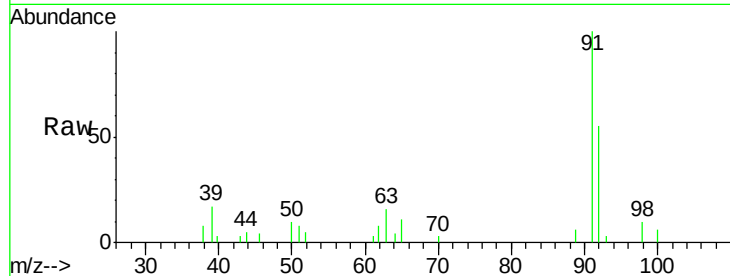
WP021SB482-17-19-180619RE

Tot Ion: 92 Resp: 14033

Ion Ratio Lower Upper

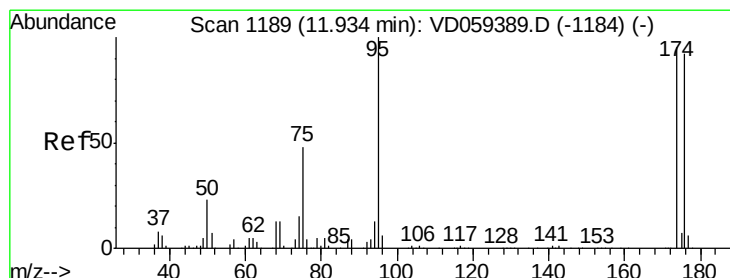
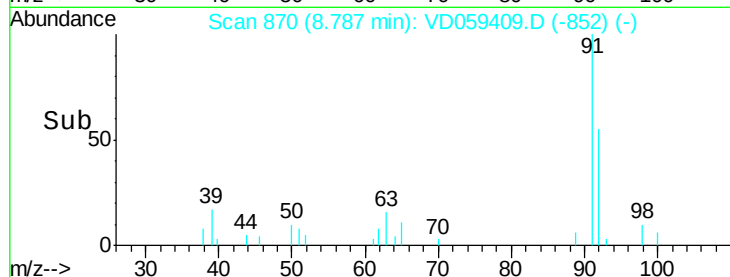
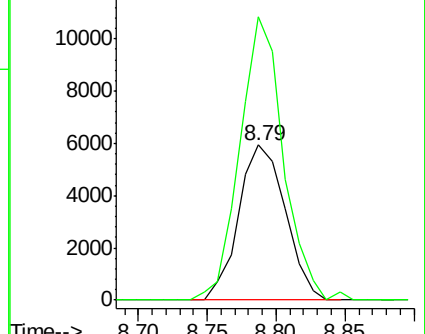
92 100

91 182.3 132.2 198.2



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: 11.92 min Scan# 1188

Delta R.T. -0.02 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

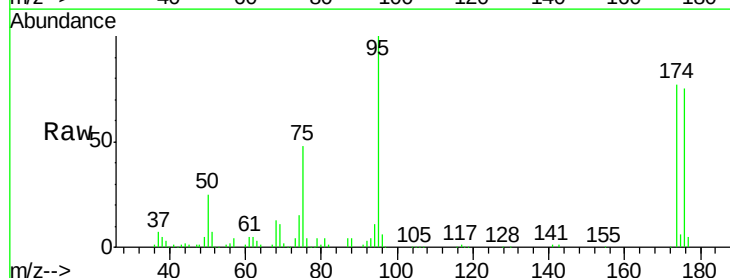
Tgt Ion: 95 Resp: 252329

Ion Ratio Lower Upper

95 100

174 76.6 0.0 190.4

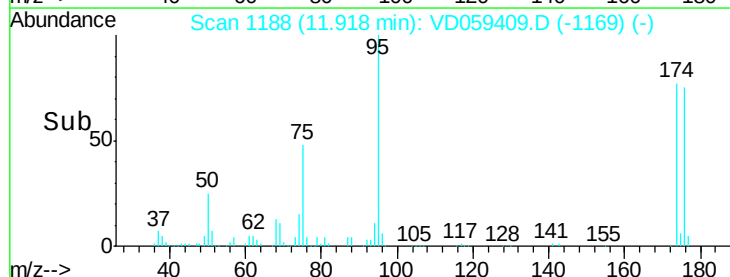
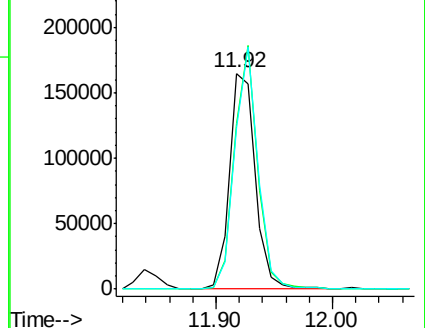
176 75.2 0.0 183.2

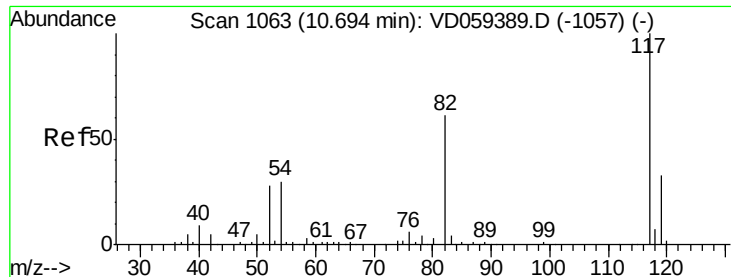


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

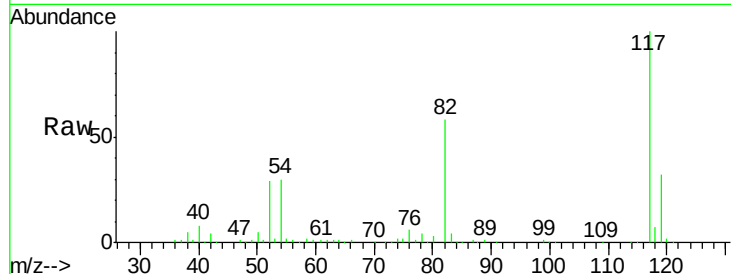




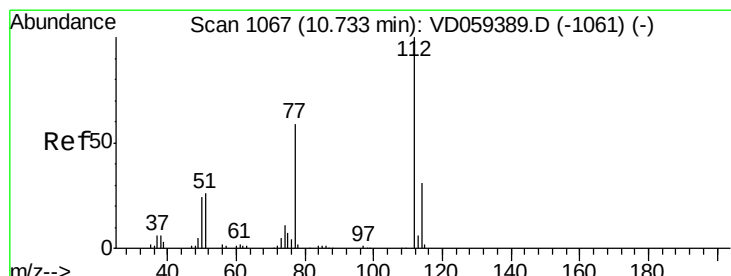
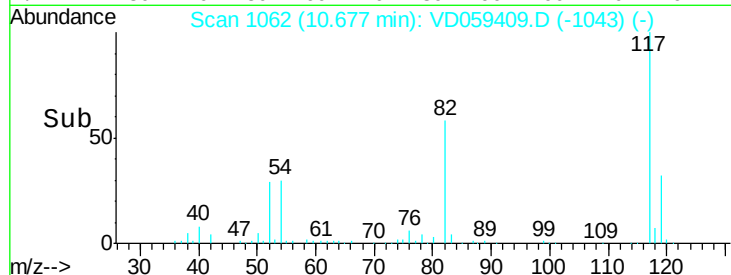
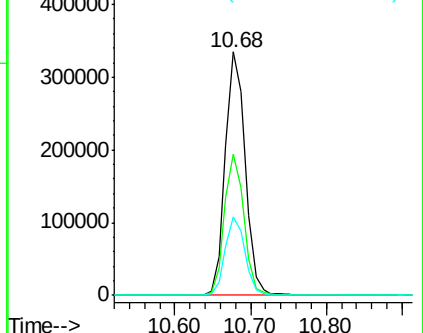
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.02 min
Lab File: VD059409.D
Acq: 25 Jun 2018 20:02

Instrument :
MSVOA_D
ClientSampleId :
WP021SB482-17-19-180619RE

Tot Ion:117 Resp: 610922
Ion Ratio Lower Upper
117 100
82 58.1 49.0 73.6
119 32.3 26.2 39.4

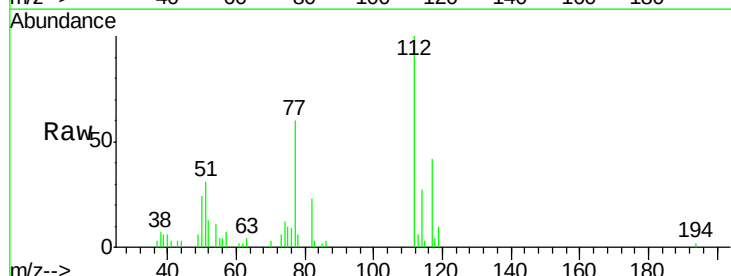


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

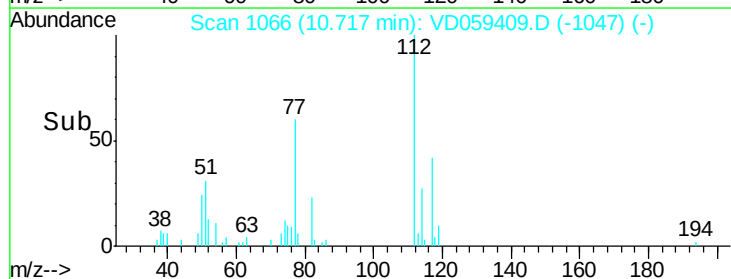
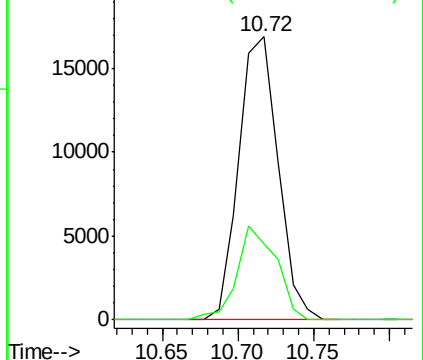


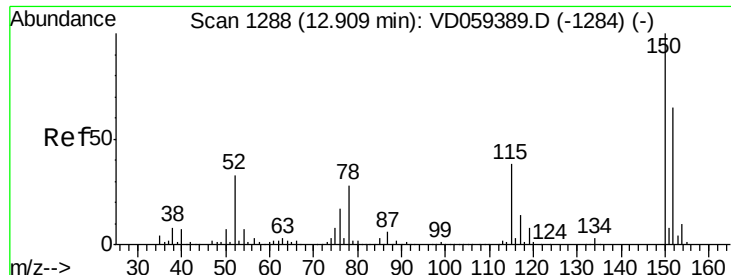
#65
Chlorobenzene
Concen: 2.734 ug/l
RT: 10.72 min Scan# 1066
Delta R.T. -0.02 min
Lab File: VD059409.D
Acq: 25 Jun 2018 20:02

Tgt Ion:112 Resp: 30540
Ion Ratio Lower Upper
112 100
114 27.0 24.6 37.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

Instrument :

MSVOA_D

ClientSampleId :

WP021SB482-17-19-180619RE

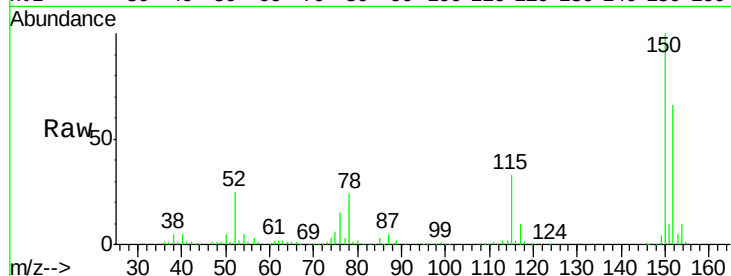
Tot Ion:152 Resp: 320187

Ion Ratio Lower Upper

152 100

115 50.3 29.4 88.3

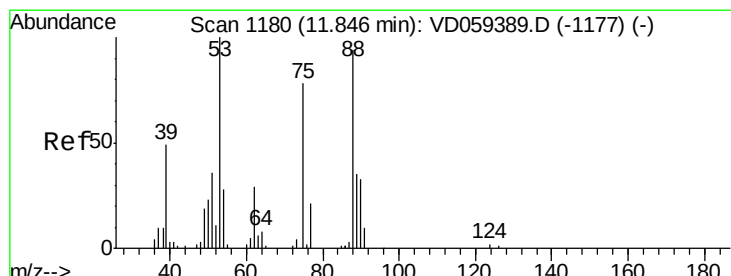
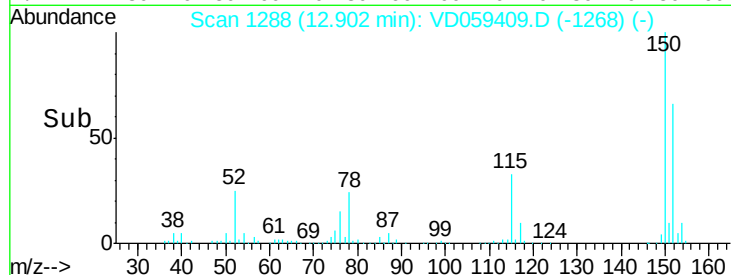
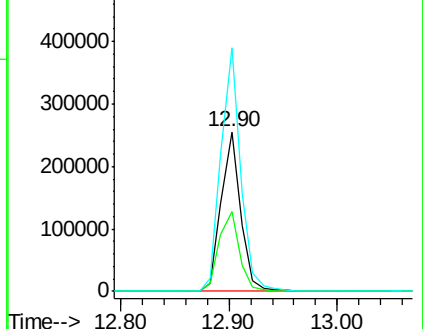
150 152.7 0.0 308.2



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: 115.623 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.07 min

Lab File: VD059409.D

Acq: 25 Jun 2018 20:02

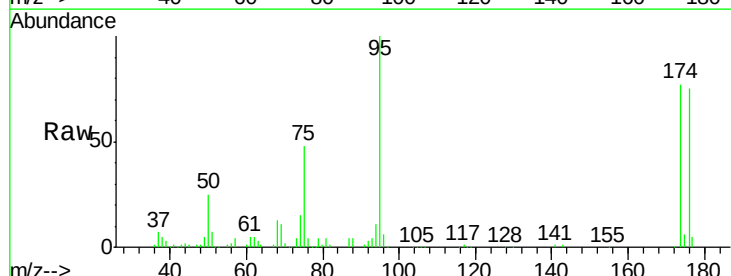
Tgt Ion: 75 Resp: 116065

Ion Ratio Lower Upper

75 100

53 0.5 102.6 154.0#

89 0.0 35.9 53.9#



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

