

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061518\
 Data File : VD058161.D
 Acq On : 15 Jun 2018 19:28
 Operator : VA/AP
 Sample : J3471-01RE
 Misc : 4.25g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 15 23:19:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	629557	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.69	114	803986	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.69	117	581262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	221379	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	406151	64.53	ug/l	-0.01
Spiked Amount			Recovery	=	129.06%	
35) Dibromofluoromethane	5.54	113	431949	69.44	ug/l	-0.02
Spiked Amount			Recovery	=	138.88%	
50) Toluene-d8	8.70	98	926854	62.67	ug/l	-0.01
Spiked Amount			Recovery	=	125.34%	
62) 4-Bromofluorobenzene	11.93	95	307698	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	

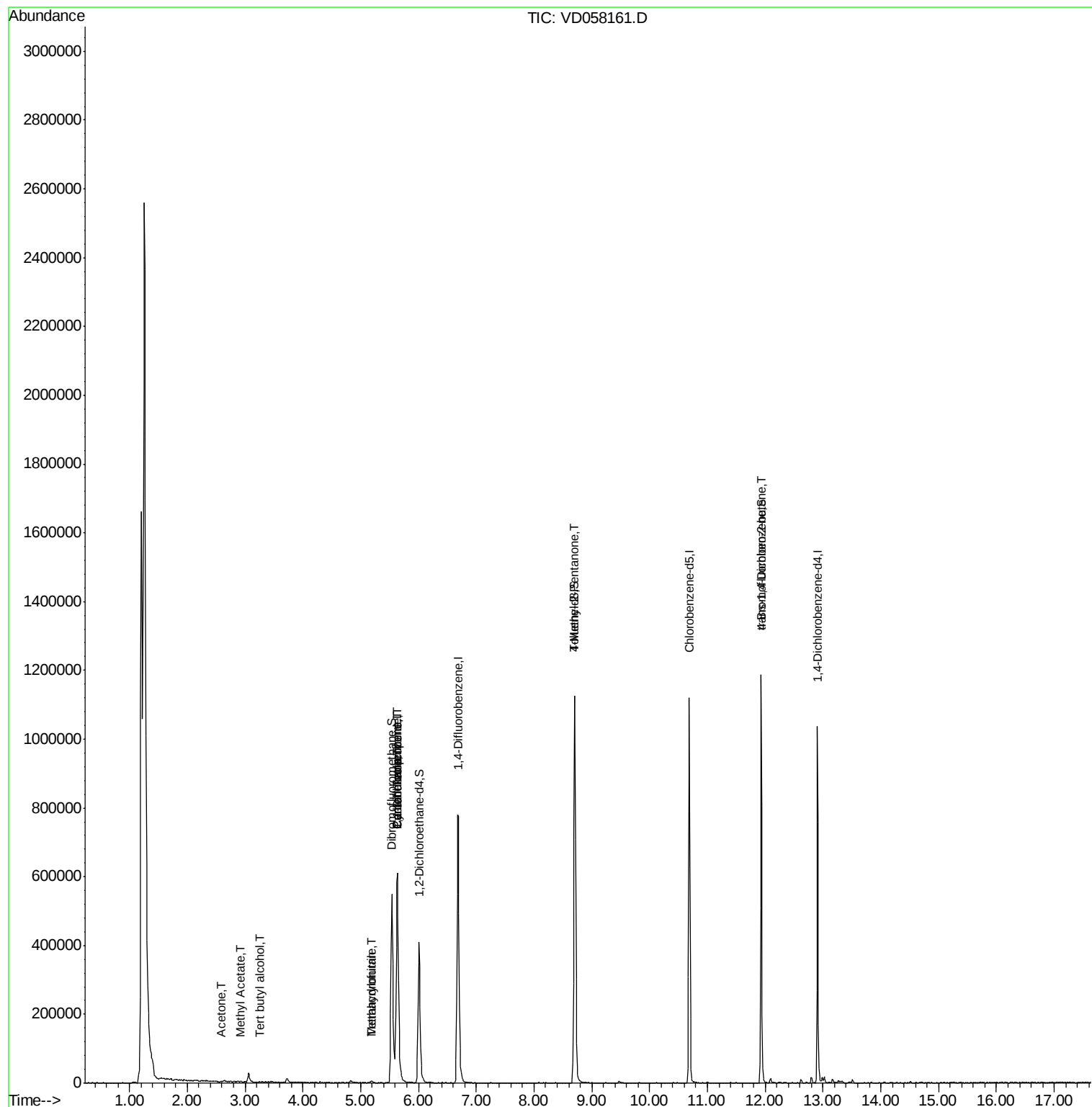
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.24	59	249	1.477	ug/l #	74
16) Acetone	2.58	43	2368	2.611	ug/l #	57
18) Methyl Acetate	2.91	43	1877	1.070	ug/l #	66
20) Methylene Chloride	3.06	84	10376	Below Cal	#	90
29) Tetrahydrofuran	5.17	42	4159	3.850	ug/l #	90
31) Cyclohexane	5.63	56	12245	1.119	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	51378	5.800	ug/l #	53
38) Carbon Tetrachloride	5.64	117	49473	5.667	ug/l #	17
41) Methacrylonitrile	5.18	41	2241	1.014	ug/l #	40
51) 4-Methyl-2-Pentanone	8.71	43	6475	1.595	ug/l #	1
81) trans-1,4-Dichloro-2-buten	11.93	75	150030	182.151	ug/l #	6
82) 4-Chlorotoluene	12.32	91	562	Below Cal	#	50
89) n-Butylbenzene	13.20	91	550	Below Cal	#	30

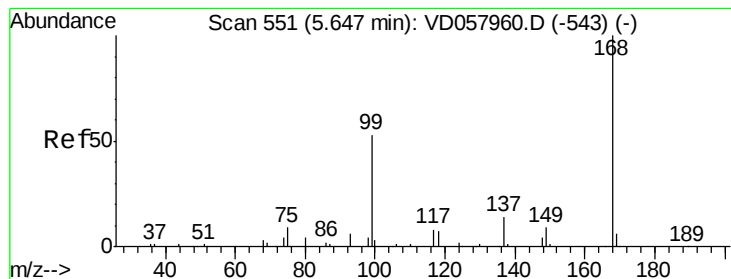
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061518\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

Instrument :

MSVOA_D

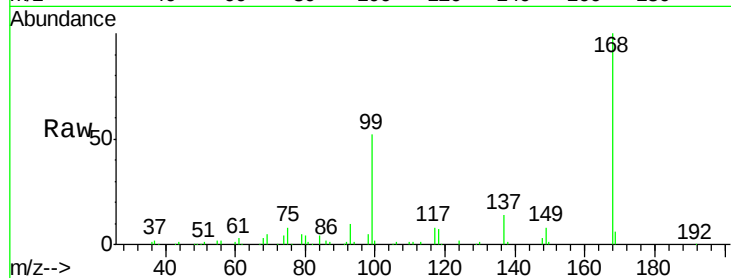
ClientSampleId :

Tot Ion:168 Resp: 629557

Ion Ratio Lower Upper

168 100

99 51.6 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.64

250000

200000

150000

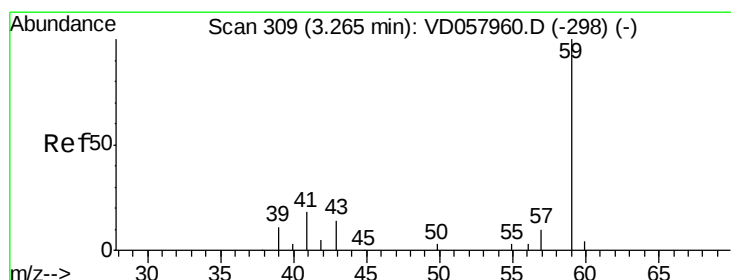
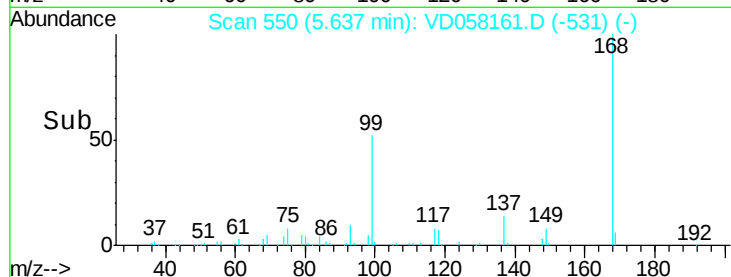
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.477 ug/l

RT: 3.24 min Scan# 307

Delta R.T. -0.02 min

Lab File: VD058161.D

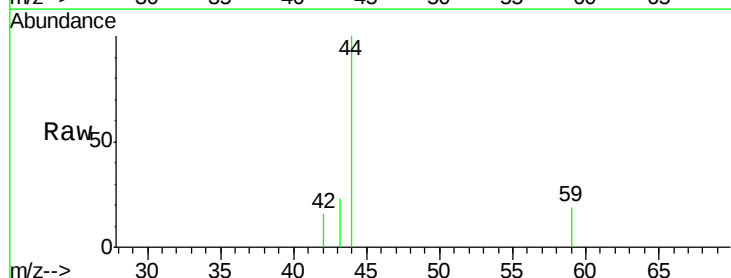
Acq: 15 Jun 2018 19:28

Tgt Ion: 59 Resp: 249

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.24

500

400

300

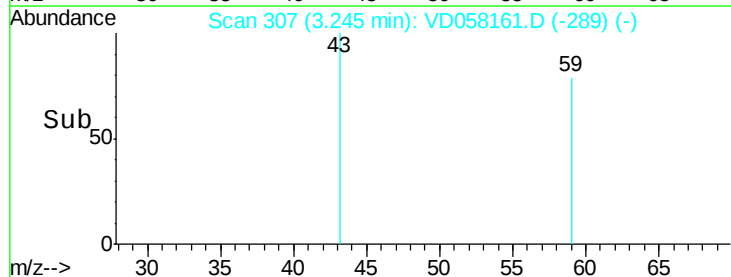
200

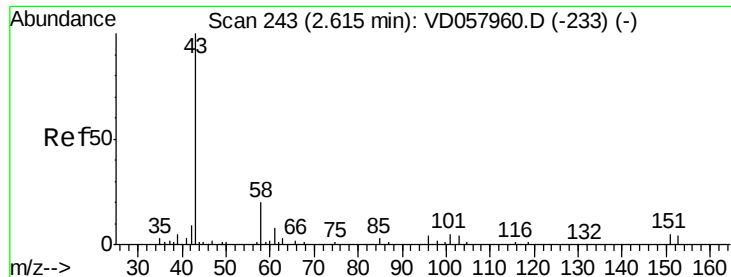
100

0

Time-->

3.22 3.24 3.26





#16

Acetone

Concen: 2.611 ug/l

RT: 2.58 min Scan# 239

Delta R.T. -0.04 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

Instrument :

MSVOA_D

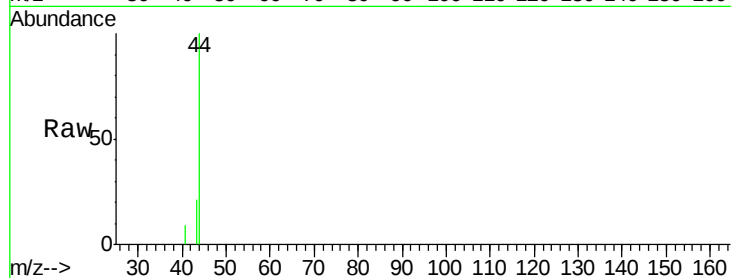
ClientSampleId :

Tot Ion: 43 Resp: 2368

Ion Ratio Lower Upper

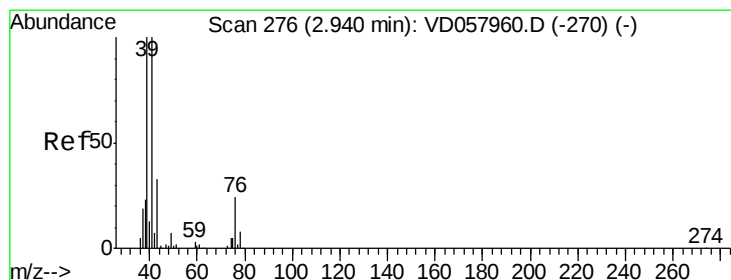
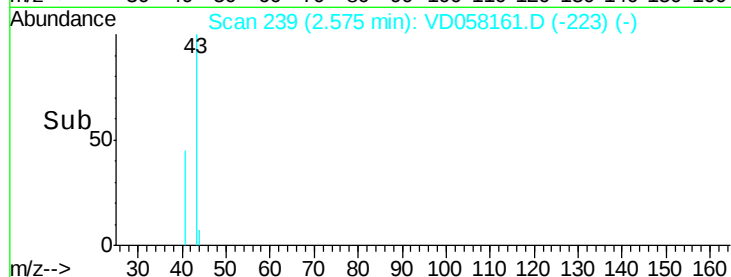
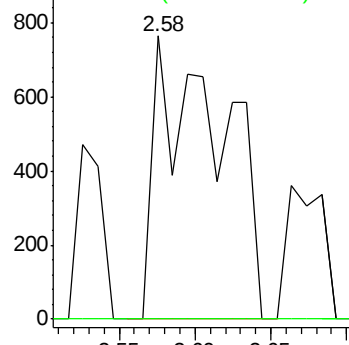
43 100

58 0.0 15.8 23.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.070 ug/l

RT: 2.91 min Scan# 273

Delta R.T. -0.03 min

Lab File: VD058161.D

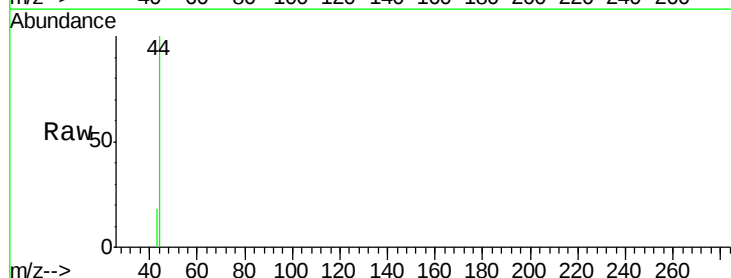
Acq: 15 Jun 2018 19:28

Tgt Ion: 43 Resp: 1877

Ion Ratio Lower Upper

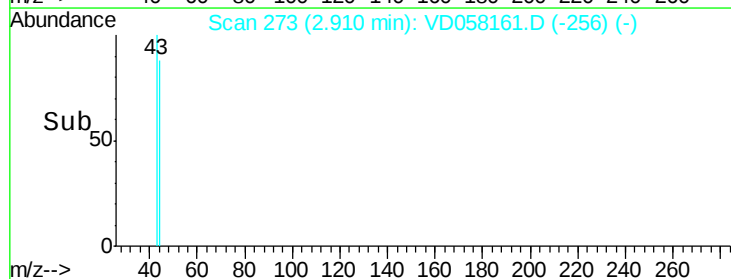
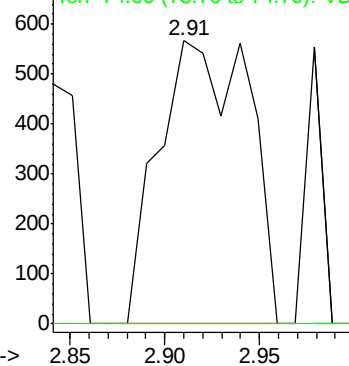
43 100

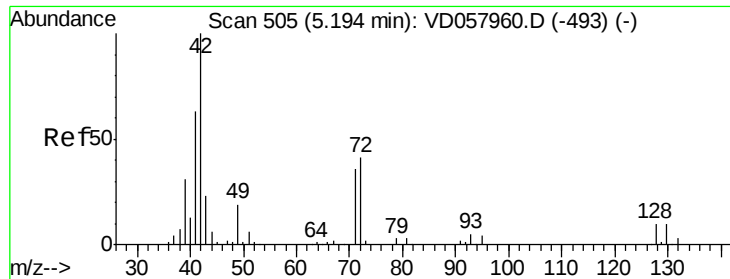
74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

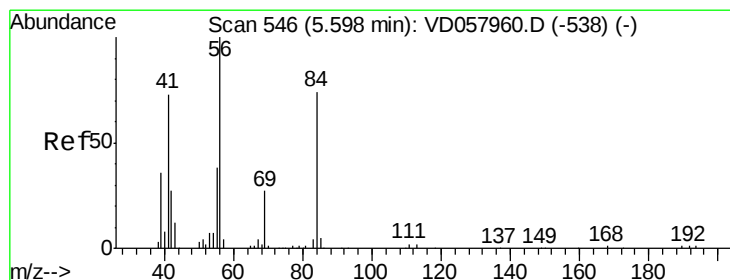
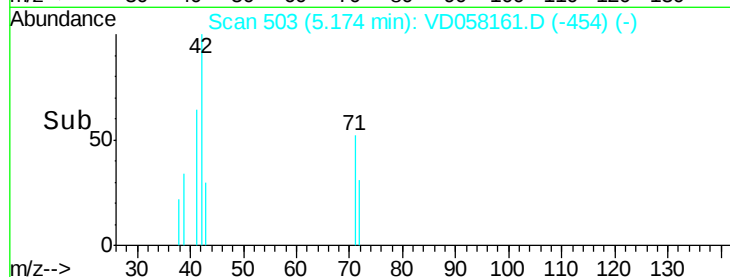
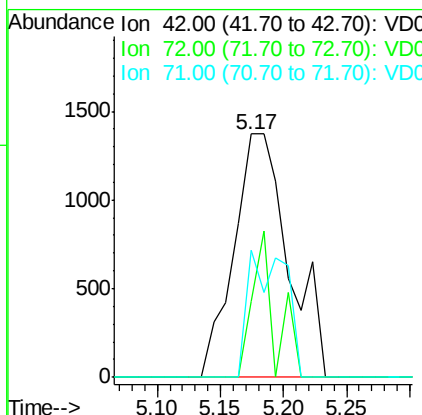
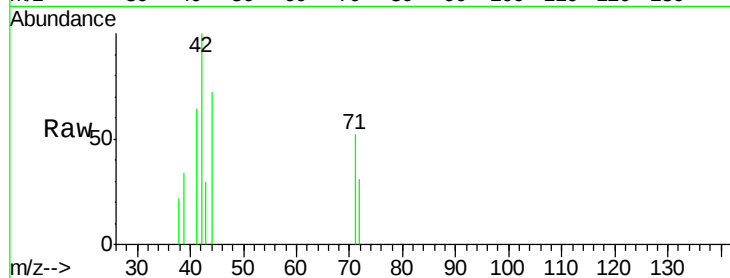




#29
Tetrahydrofuran
Concen: 3.850 ug/l
RT: 5.17 min Scan# 503
Delta R.T. -0.02 min
Lab File: VD058161.D
Acq: 15 Jun 2018 19:28

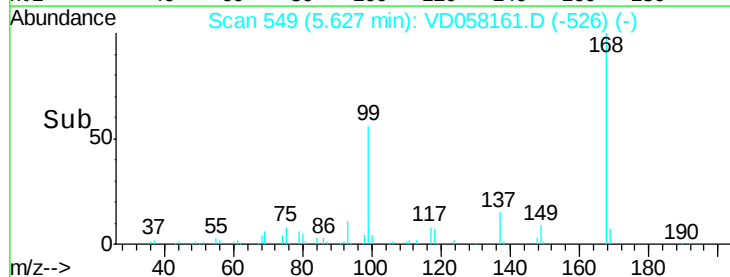
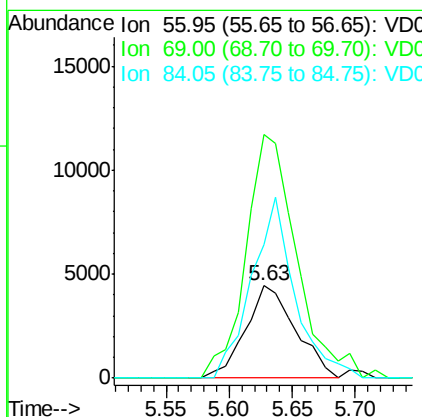
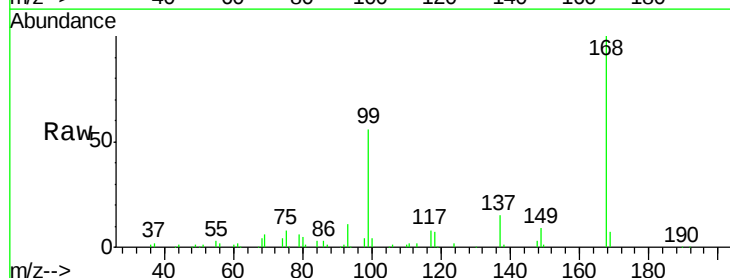
Instrument :
MSVOA_D
ClientSampleId :

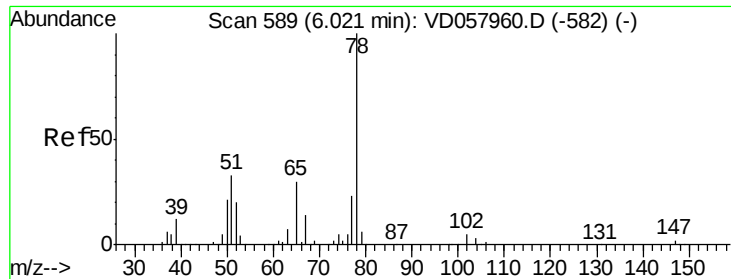
Tot Ion: 42 Resp: 4159
Ion Ratio Lower Upper
42 100
72 24.6 28.5 42.7#
71 35.6 27.9 41.9



#31
Cyclohexane
Concen: 1.119 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.03 min
Lab File: VD058161.D
Acq: 15 Jun 2018 19:28

Tgt Ion: 56 Resp: 12245
Ion Ratio Lower Upper
56 100
69 263.7 21.5 32.3#
84 144.6 61.0 91.6#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

Instrument :

MSVOA_D

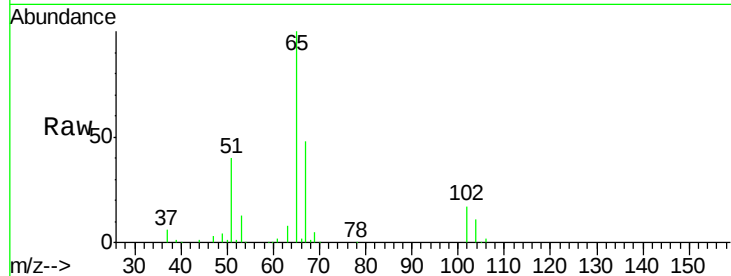
ClientSampleId :

Tot Ion: 65 Resp: 406151

Ion Ratio Lower Upper

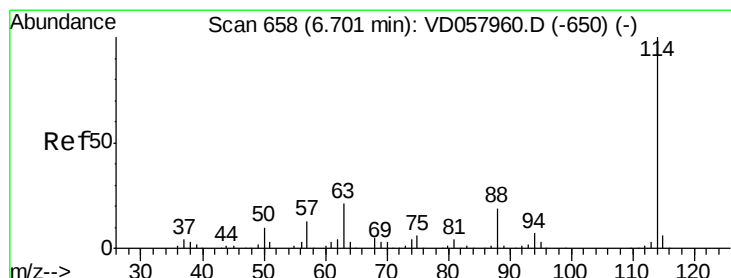
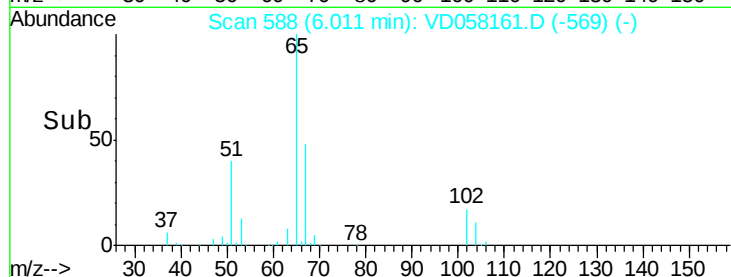
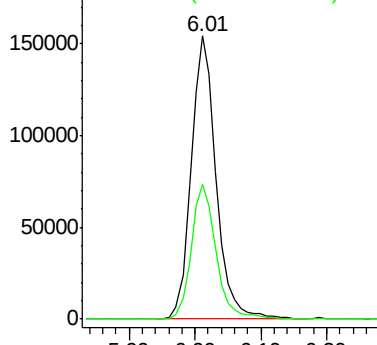
65 100

67 47.8 0.0 94.0



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: 6.69 min Scan# 657

Delta R.T. -0.01 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

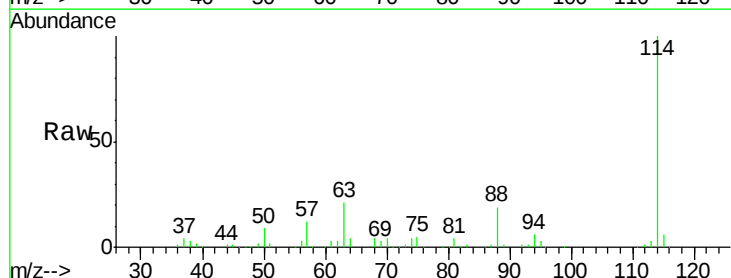
Tgt Ion: 114 Resp: 803986

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.8

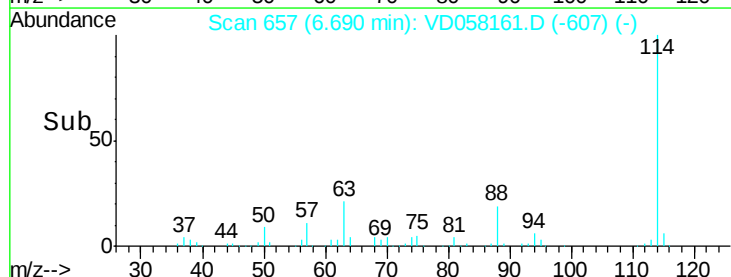
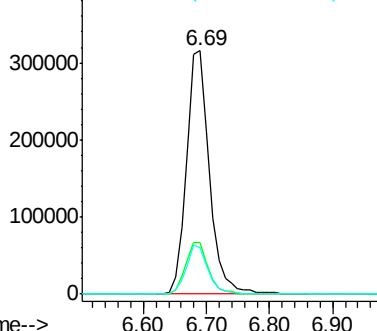
88 19.2 0.0 37.8

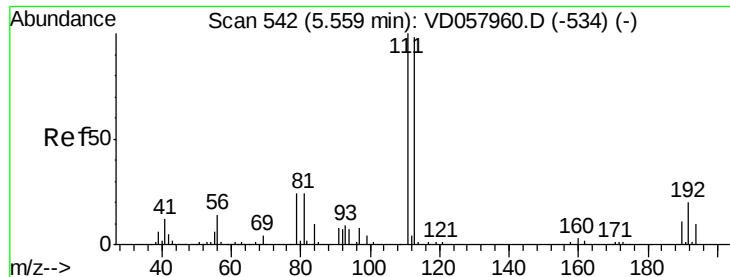


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

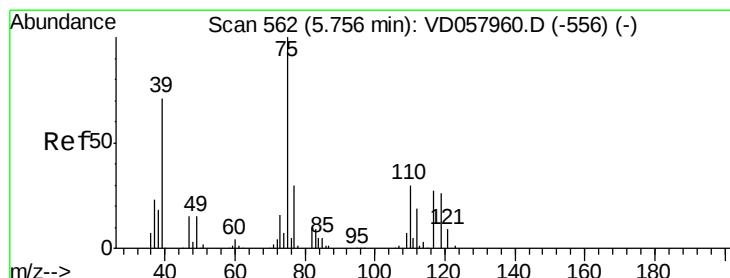
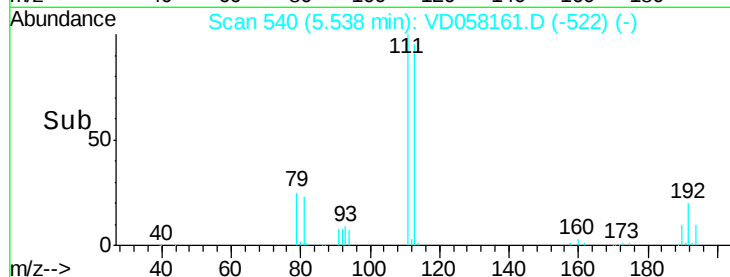
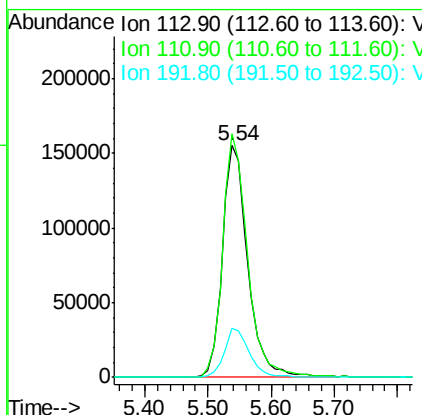
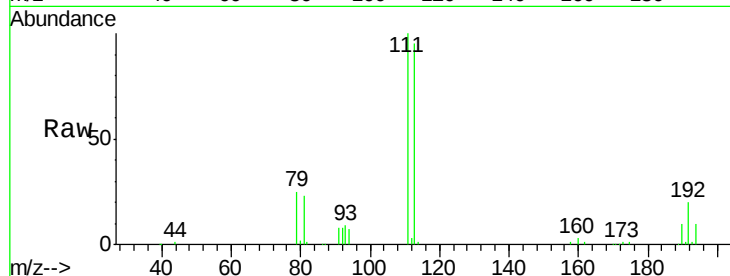




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.54 min Scan# 540
Delta R.T. -0.02 min
Lab File: VD058161.D
Acq: 15 Jun 2018 19:28

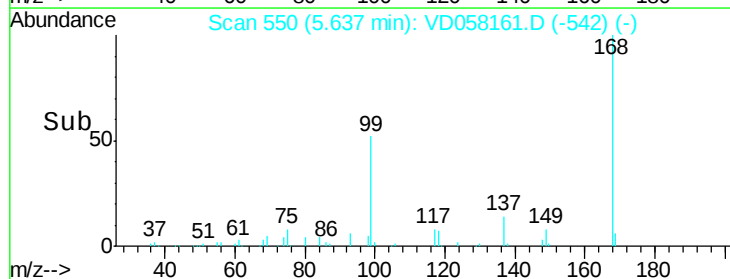
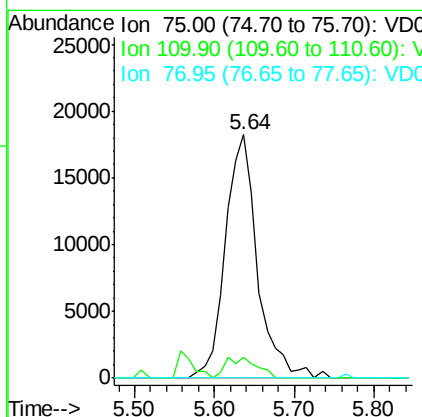
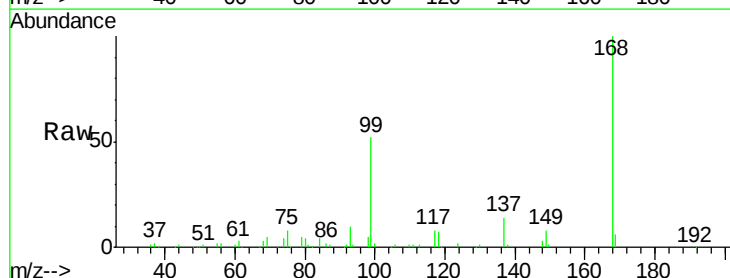
Instrument :
MSVOA_D
ClientSampleId :

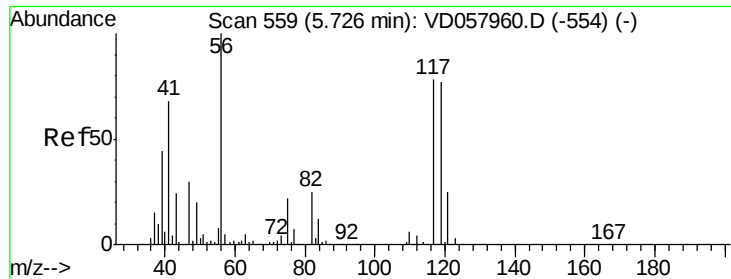
Tot Ion:113 Resp: 431949
Ion Ratio Lower Upper
113 100
111 105.1 81.5 122.3
192 20.9 16.4 24.6



#36
1,1-Dichloropropene
Concen: 5.800 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.12 min
Lab File: VD058161.D
Acq: 15 Jun 2018 19:28

Tgt Ion: 75 Resp: 51378
Ion Ratio Lower Upper
75 100
110 8.4 14.8 44.3#
77 0.0 23.9 35.9#





#38

Carbon Tetrachloride

Concen: 5.667 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

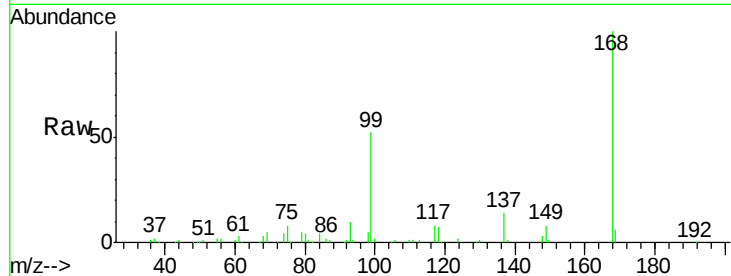
Tot Ion:117 Resp: 49473

Ion Ratio Lower Upper

117 100

119 5.5 76.1 114.1#

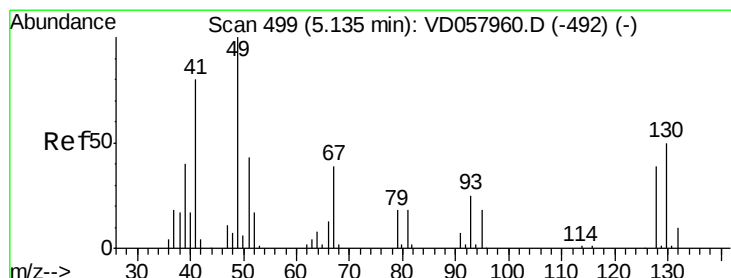
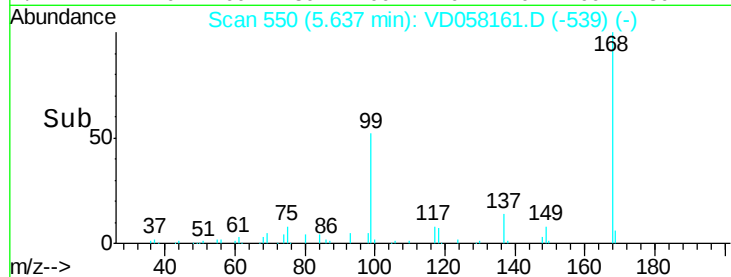
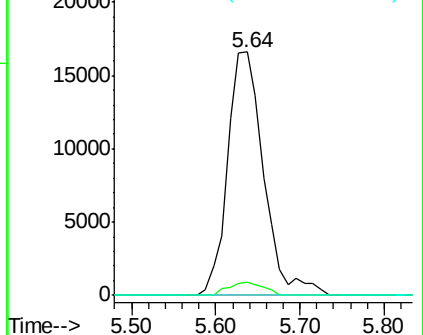
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 1.014 ug/l

RT: 5.18 min Scan# 504

Delta R.T. 0.05 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

Tgt Ion: 41 Resp: 2241

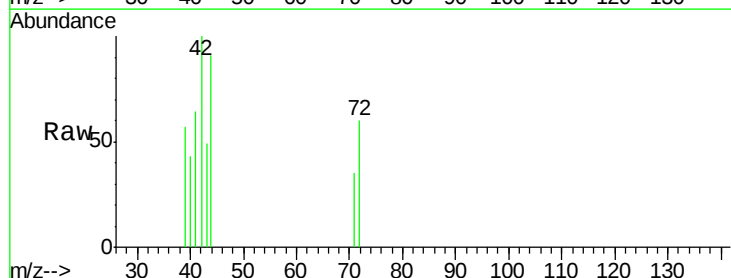
Ion Ratio Lower Upper

41 100

39 88.9 40.7 61.1#

67 0.0 38.8 58.2#

52 0.0 17.3 25.9#

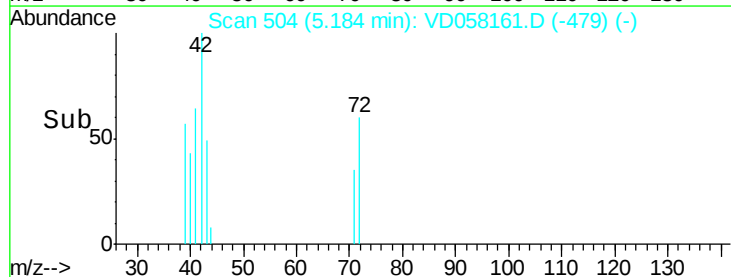
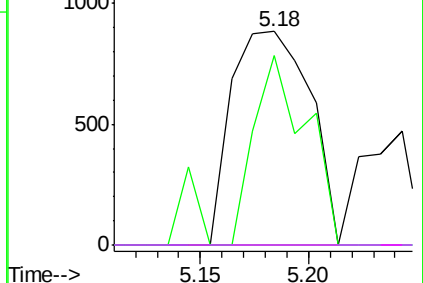


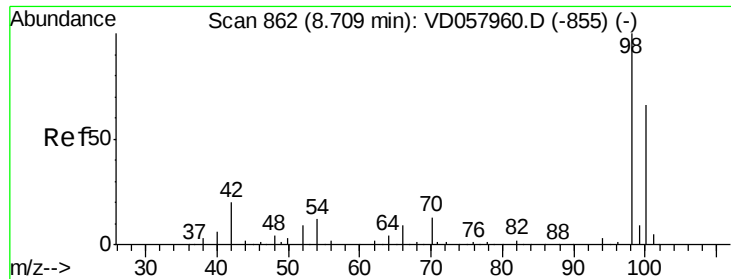
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

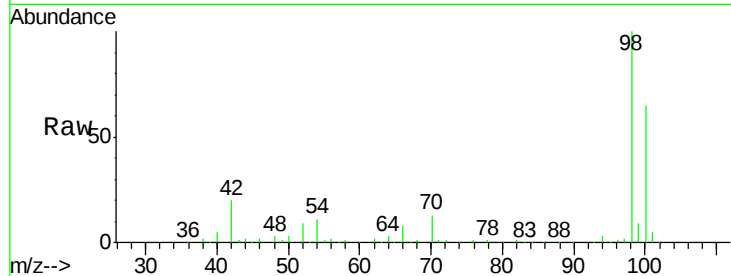




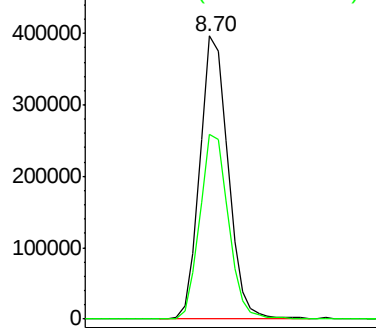
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD058161.D
Acq: 15 Jun 2018 19:28

Instrument :
MSVOA_D
ClientSampleId :

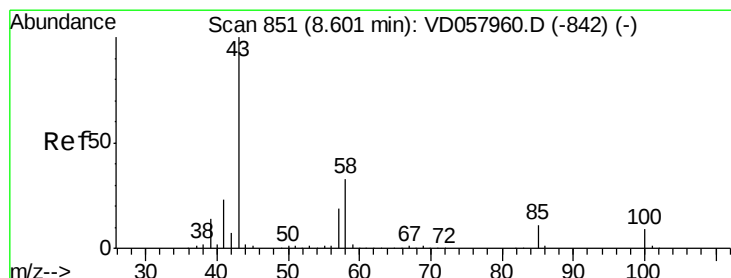
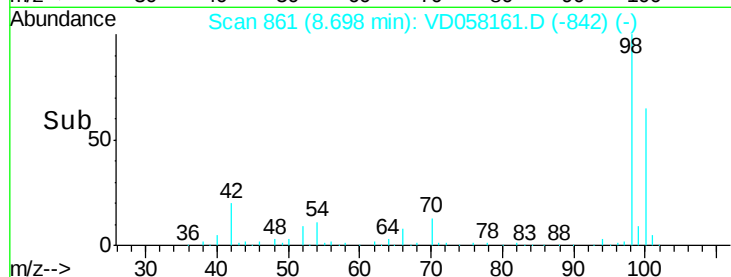
Tot Ion: 98 Resp: 926854
Ion Ratio Lower Upper
98 100
100 65.3 53.4 80.0



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

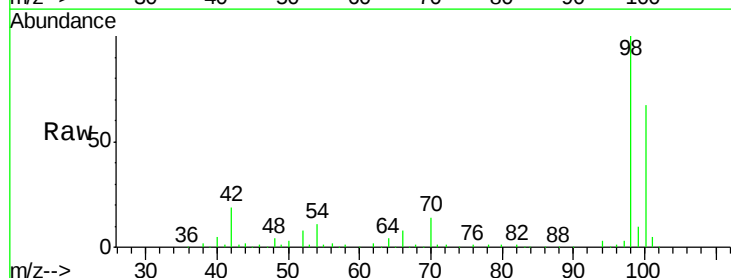


Time-->

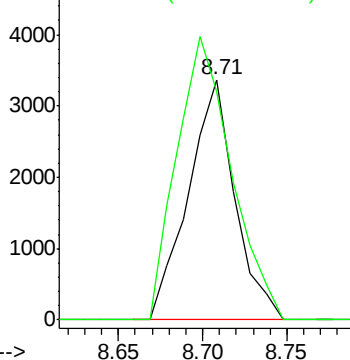


#51
4-Methyl-2-Pentanone
Concen: 1.595 ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.11 min
Lab File: VD058161.D
Acq: 15 Jun 2018 19:28

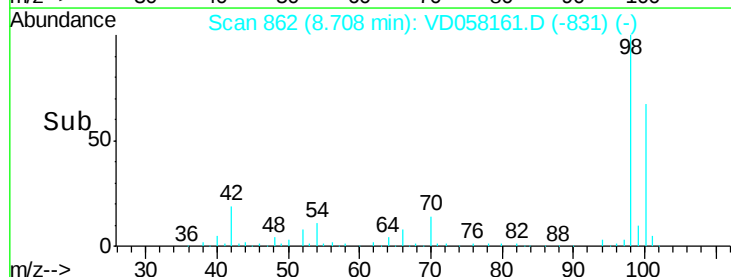
Tgt Ion: 43 Resp: 6475
Ion Ratio Lower Upper
43 100
58 95.2 26.2 39.4#

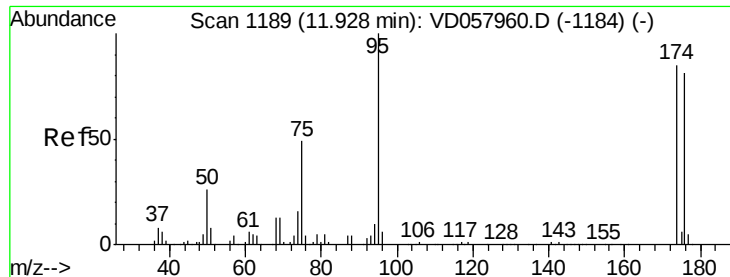


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC



Time-->





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

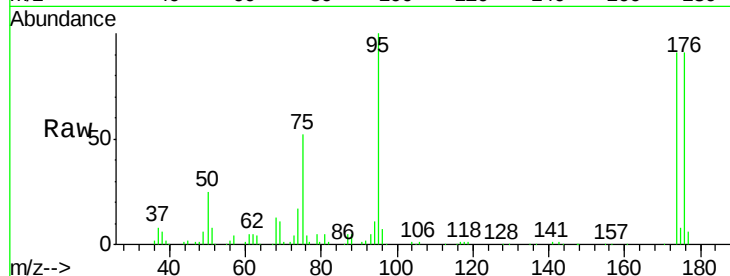
Tot Ion: 95 Resp: 307698

Ion Ratio Lower Upper

95 100

174 91.1 0.0 169.4

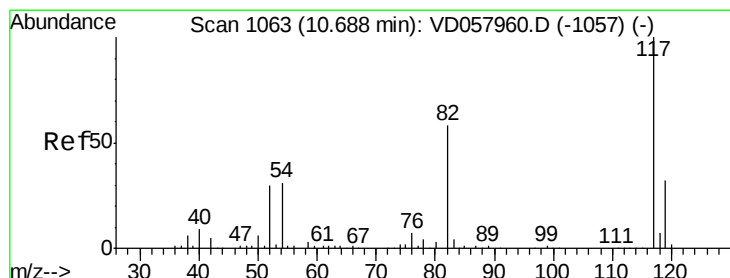
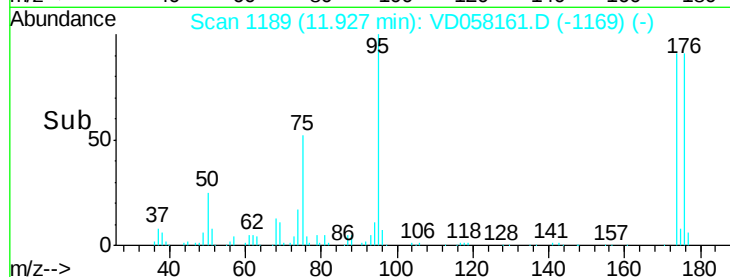
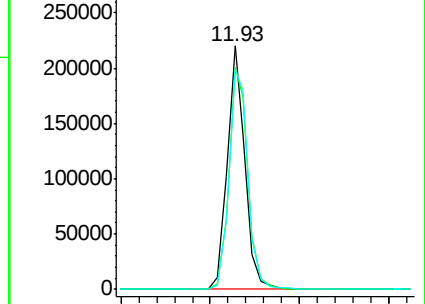
176 90.5 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): V

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: VD058161.D

Acq: 15 Jun 2018 19:28

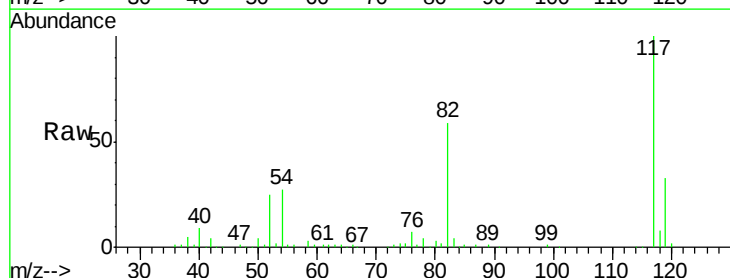
Tgt Ion: 117 Resp: 581262

Ion Ratio Lower Upper

117 100

82 58.5 46.8 70.2

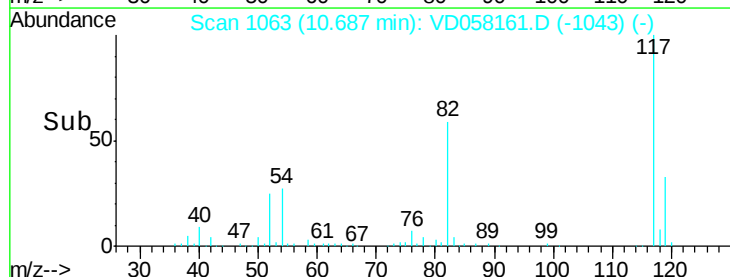
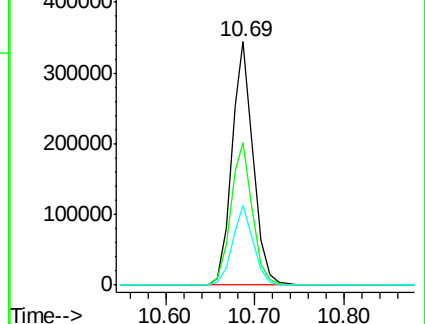
119 32.9 25.8 38.6

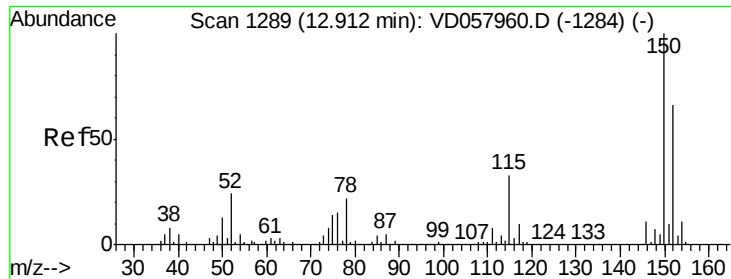


Abundance Ion 116.95 (116.65 to 117.65): V

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: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

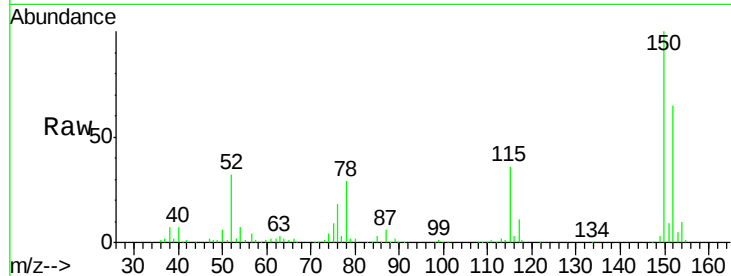
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:152 Resp: 221379

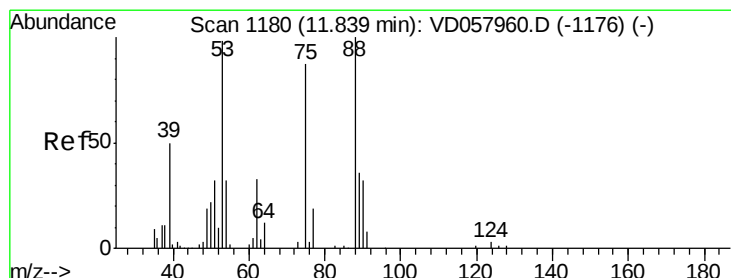
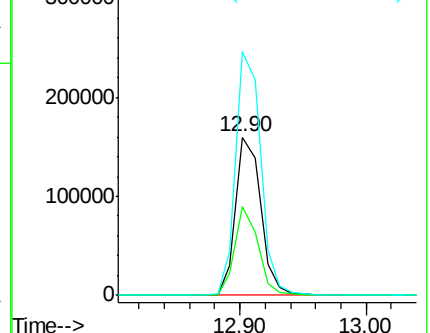
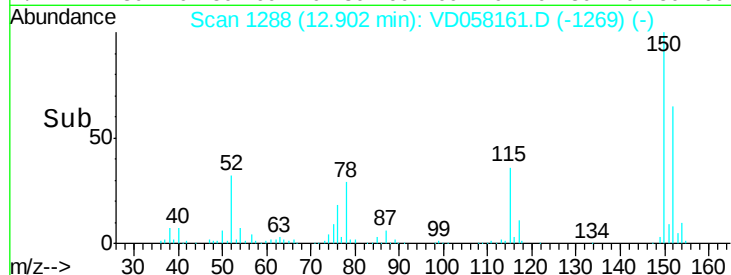
Ion	Ratio	Lower	Upper
152	100		
115	55.7	25.6	76.6
150	153.7	0.0	306.8



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: 182.151 ug/l

RT: 11.93 min Scan# 1189

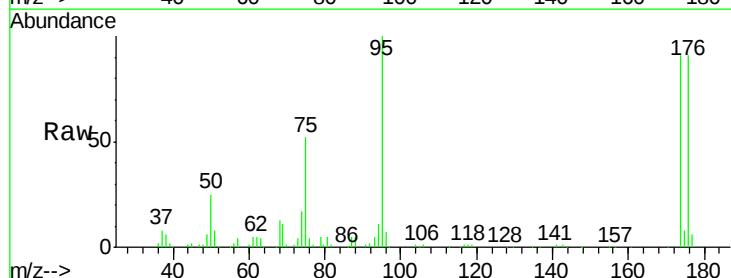
Delta R.T. 0.09 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

Tgt Ion: 75 Resp: 150030

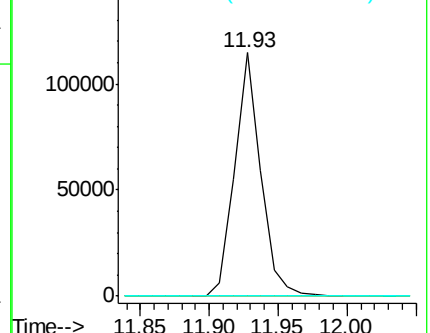
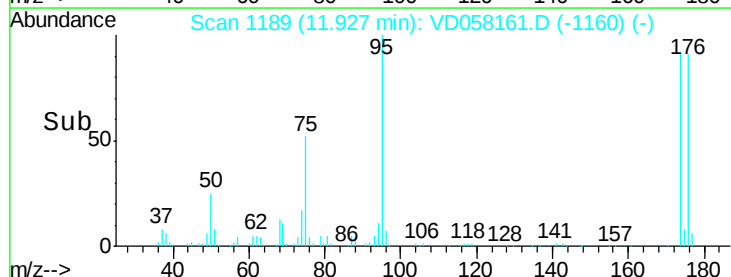
Ion	Ratio	Lower	Upper
75	100		
53	0.0	89.3	133.9#
89	0.0	33.3	49.9#

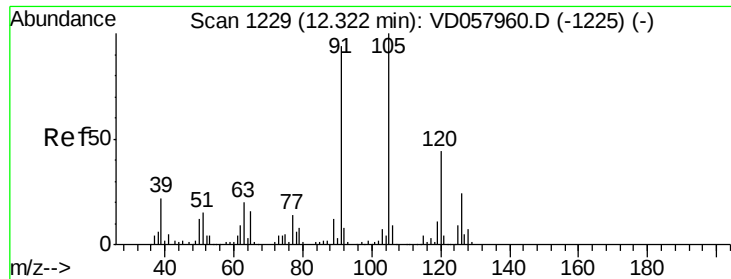


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

Instrument :

MSVOA_D

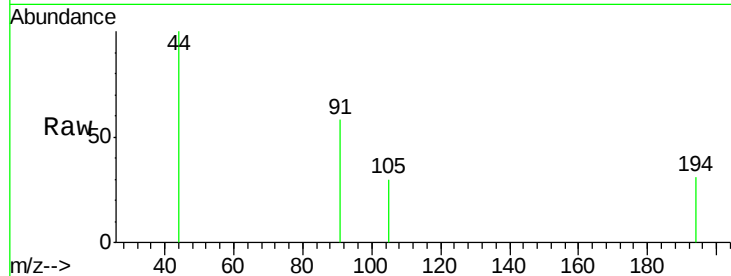
ClientSampled :

Tot Ion: 91 Resp: 562

Ion Ratio Lower Upper

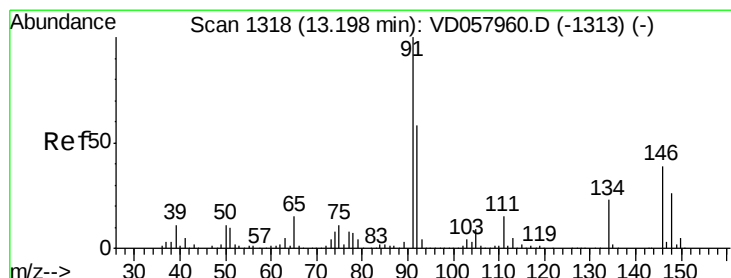
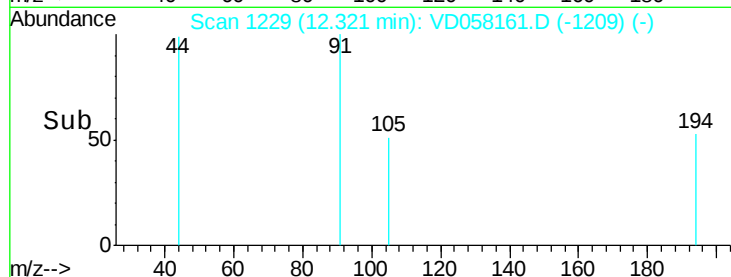
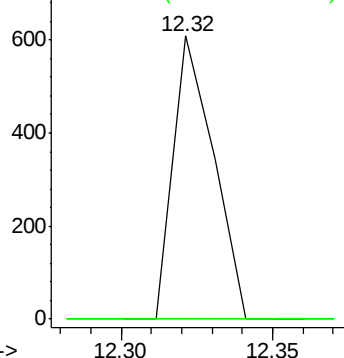
91 100

126 0.0 12.5 37.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V



#89

n-Butylbenzene

Concen: Below Cal

RT: 13.20 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VD058161.D

Acq: 15 Jun 2018 19:28

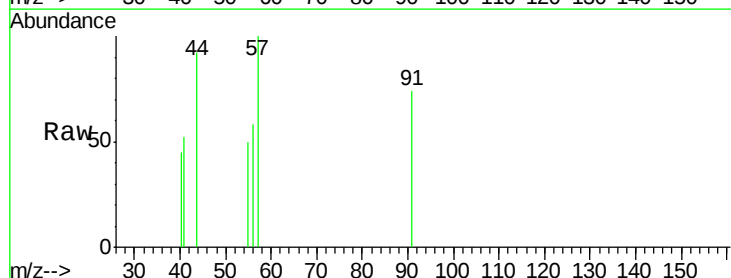
Tgt Ion: 91 Resp: 550

Ion Ratio Lower Upper

91 100

92 0.0 29.2 87.6#

134 0.0 11.3 33.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): V

