

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058031.D
 Acq On : 8 Jun 2018 21:27
 Operator : VA/AP
 Sample : J3377-04
 Misc : 5.76g/5ml/MSVOA D/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 08 23:57:58 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	5.63	168	505513	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.68	114	727738	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	633192	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.90	152	342029	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.00	65	380227	75.24	ug/l	-0.02
Spiked Amount			Recovery	=	150.48%	
35) Dibromofluoromethane	5.54	113	371557	65.99	ug/l	-0.02
Spiked Amount			Recovery	=	131.98%	
50) Toluene-d8	8.70	98	805552	60.18	ug/l	-0.01
Spiked Amount			Recovery	=	120.36%	
62) 4-Bromofluorobenzene	11.93	95	370408	63.43	ug/l	0.00
Spiked Amount			Recovery	=	126.86%	

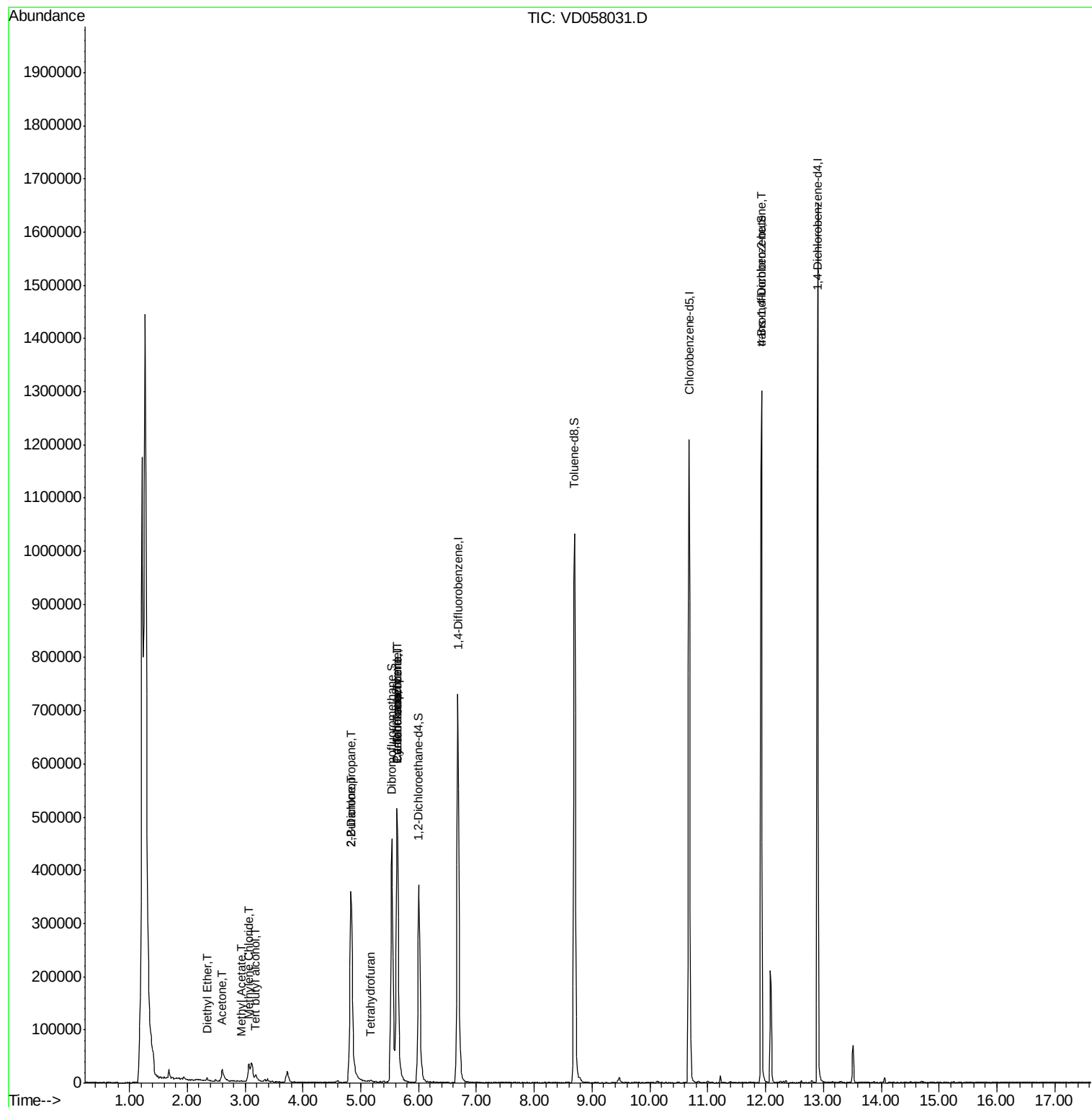
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.34	74	1534	1.868	ug/l	89
11) Tert butyl alcohol	3.19	59	13309	98.304	ug/l #	74
16) Acetone	2.60	43	49198	67.568	ug/l	100
18) Methyl Acetate	2.93	43	1986	1.410	ug/l #	66
20) Methylene Chloride	3.07	84	16927	1.992	ug/l	83
25) 2-Butanone	4.83	43	33472	20.228	ug/l #	87
26) 2,2-Dichloropropane	4.84	77	26470	3.156	ug/l #	59
29) Tetrahydrofuran	5.18	42	1721	1.984	ug/l #	48
31) Cyclohexane	5.62	56	11572	1.317	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	49772	6.208	ug/l #	48
38) Carbon Tetrachloride	5.63	117	42531	5.382	ug/l #	15
81) trans-1,4-Dichloro-2-buten	11.92	75	184202	144.751	ug/l #	6
82) 4-Chlorotoluene	12.32	91	597	Below Cal	#	50
89) n-Butylbenzene	13.19	91	194	Below Cal	#	1

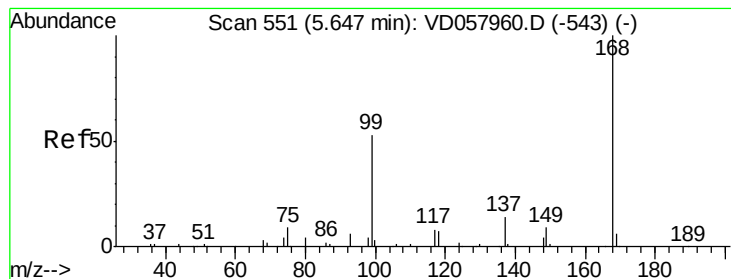
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.02 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

Instrument :

MSVOA_D

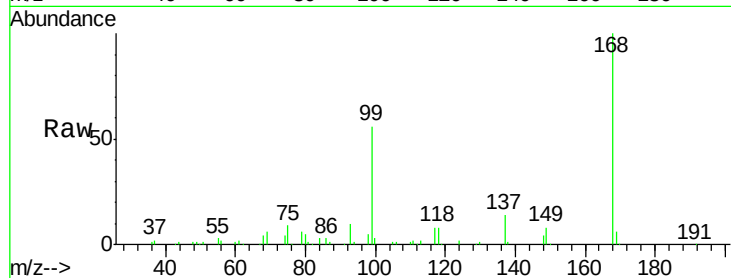
ClientSampleId :

Tot Ion:168 Resp: 505513

Ion Ratio Lower Upper

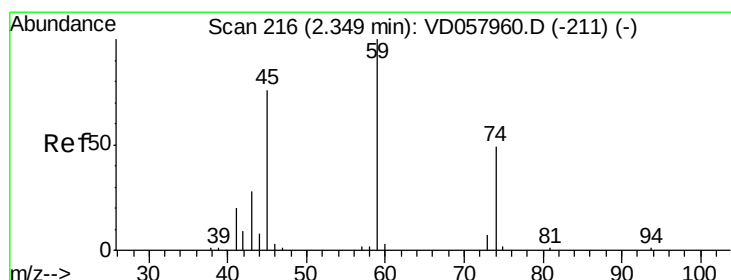
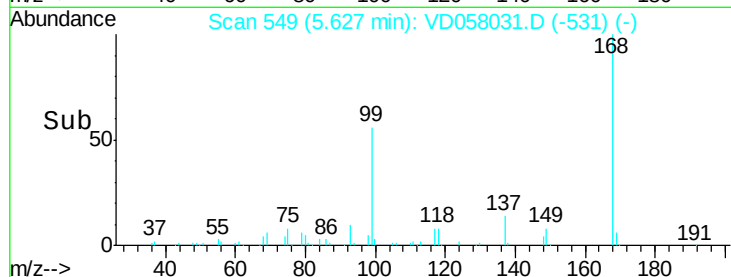
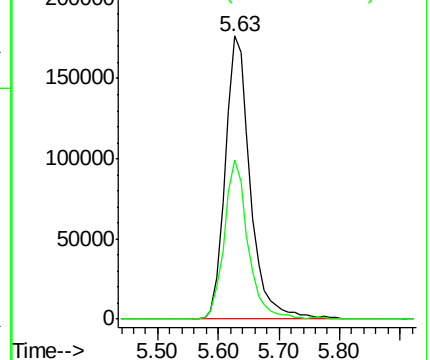
168 100

99 56.3 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.868 ug/l

RT: 2.34 min Scan# 215

Delta R.T. -0.01 min

Lab File: VD058031.D

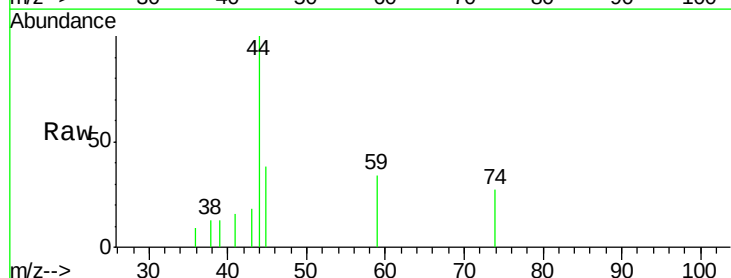
Acq: 8 Jun 2018 21:27

Tgt Ion: 74 Resp: 1534

Ion Ratio Lower Upper

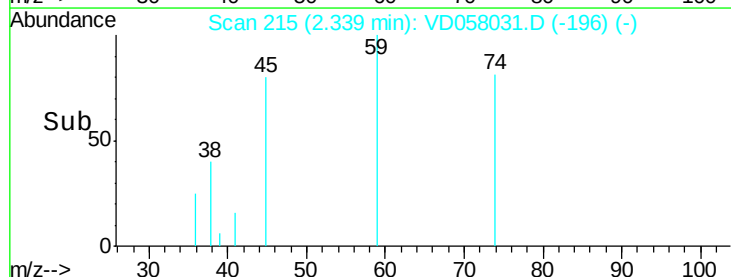
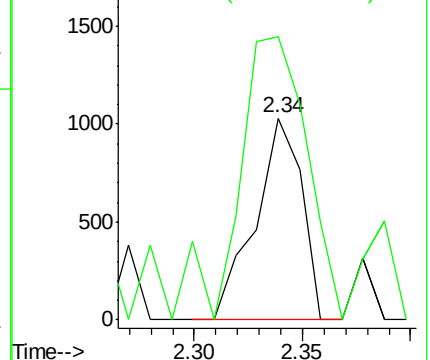
74 100

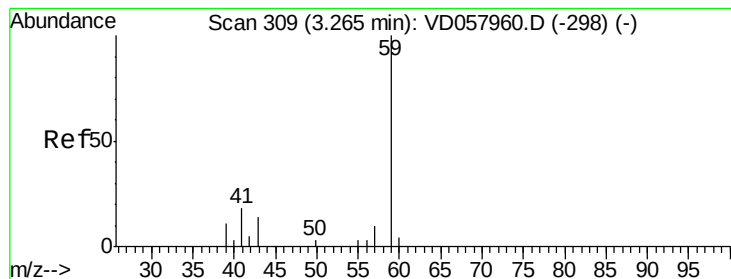
45 140.1 77.1 231.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



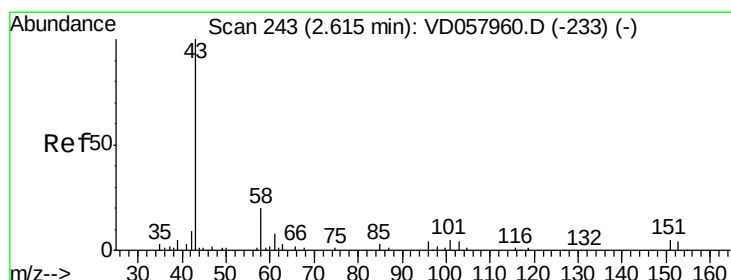
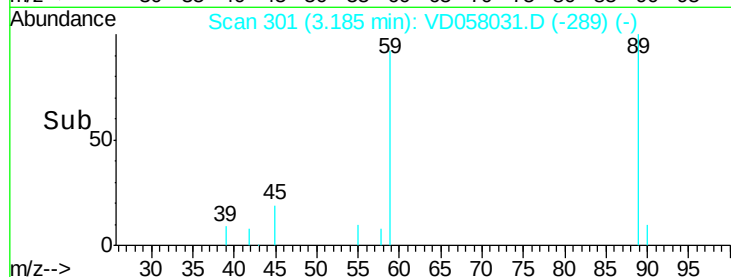
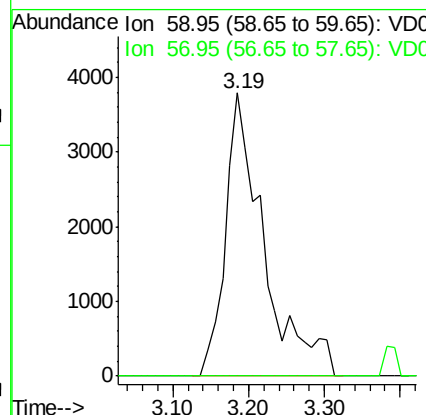
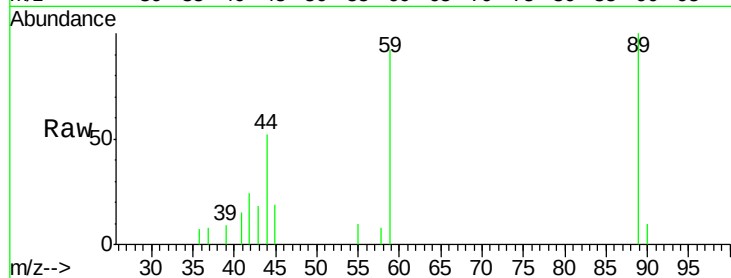


#11

Tert butyl alcohol
 Concen: 98.304 ug/l
 RT: 3.19 min Scan# 301
 Delta R.T. -0.08 min
 Lab File: VD058031.D
 Acq: 8 Jun 2018 21:27

Instrument :
 MSVOA_D
 ClientSampleId :

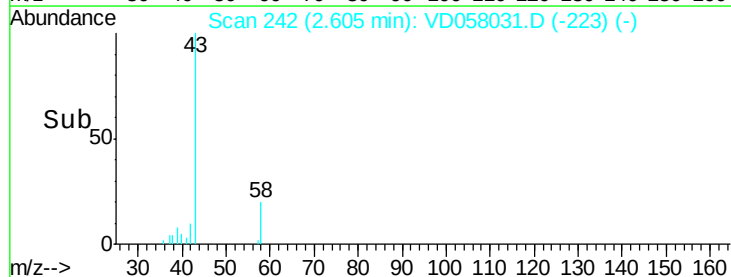
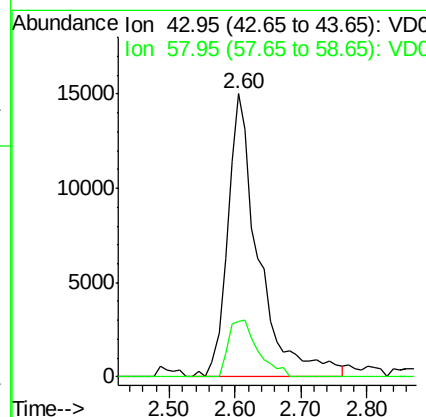
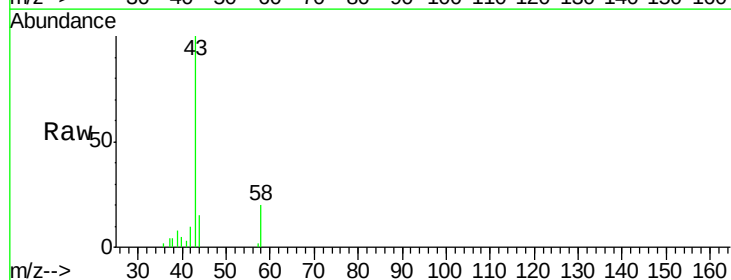
Tot Ion: 59 Resp: 13309
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

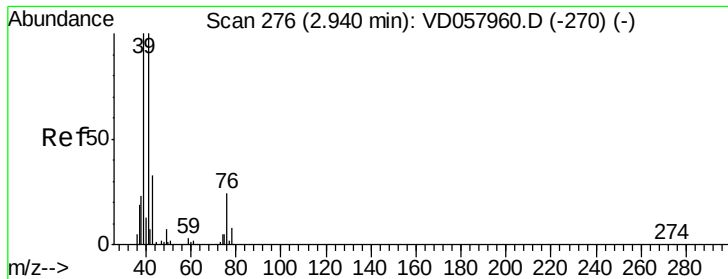


#16

Acetone
 Concen: 67.568 ug/l
 RT: 2.60 min Scan# 242
 Delta R.T. -0.01 min
 Lab File: VD058031.D
 Acq: 8 Jun 2018 21:27

Tgt Ion: 43 Resp: 49198
 Ion Ratio Lower Upper
 43 100
 58 19.8 15.8 23.8

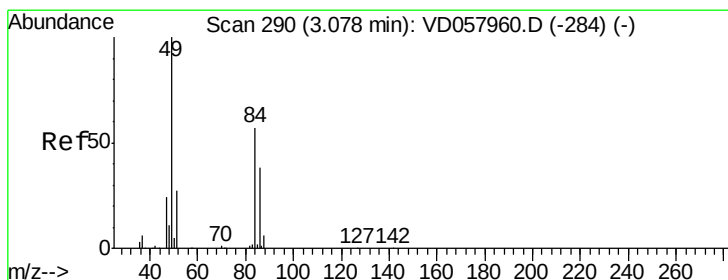
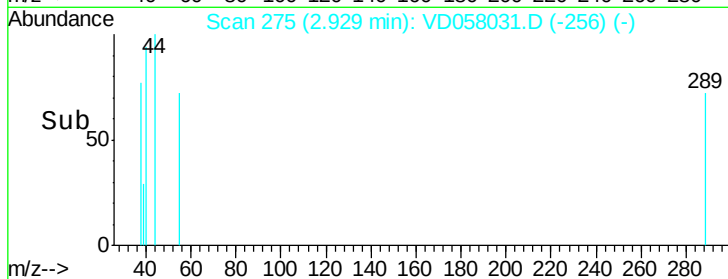
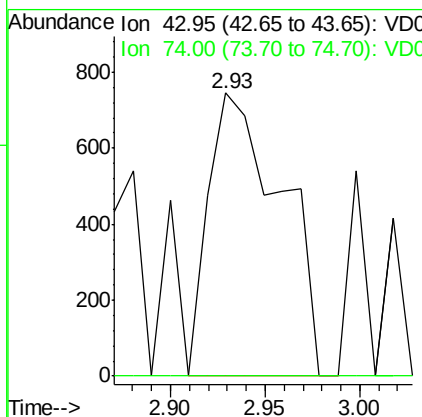
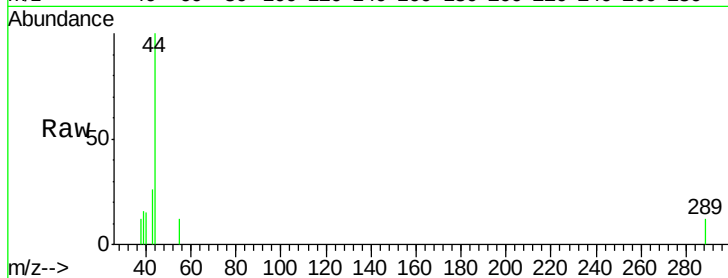




#18
Methyl Acetate
Concen: 1.410 ug/l
RT: 2.93 min Scan# 275
Delta R.T. -0.01 min
Lab File: VD058031.D
Acq: 8 Jun 2018 21:27

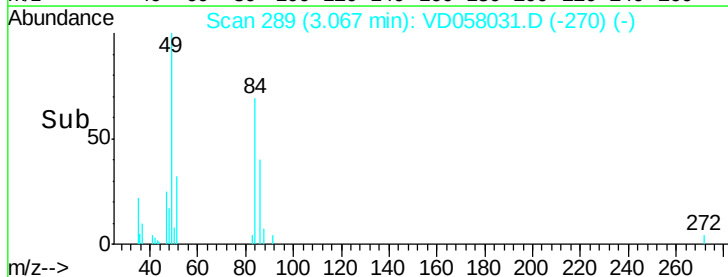
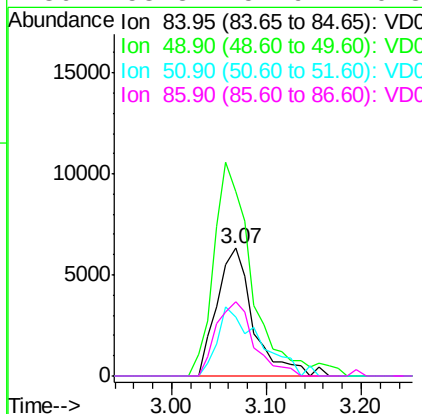
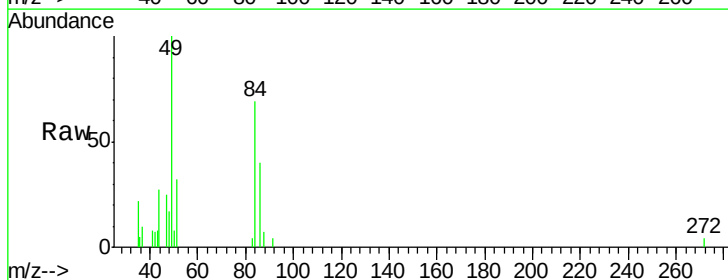
Instrument :
MSVOA_D
ClientSampled :

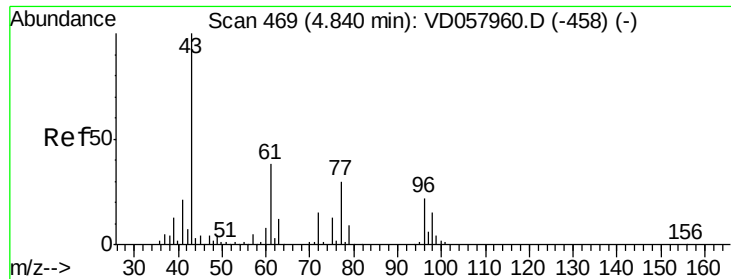
Tot Ion: 43 Resp: 1986
Ion Ratio Lower Upper
43 100
74 0.0 11.2 16.8#



#20
Methylene Chloride
Concen: 1.992 ug/l
RT: 3.07 min Scan# 289
Delta R.T. -0.01 min
Lab File: VD058031.D
Acq: 8 Jun 2018 21:27

Tgt Ion: 84 Resp: 16927
Ion Ratio Lower Upper
84 100
49 144.1 141.4 212.0
51 46.4 38.3 57.5
86 58.3 52.9 79.3





#25

2-Butanone

Concen: 20.228 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

Instrument :

MSVOA_D

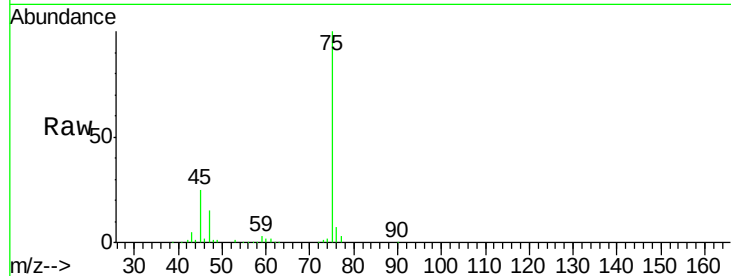
ClientSampleId :

Tot Ion: 43 Resp: 33472

Ion Ratio Lower Upper

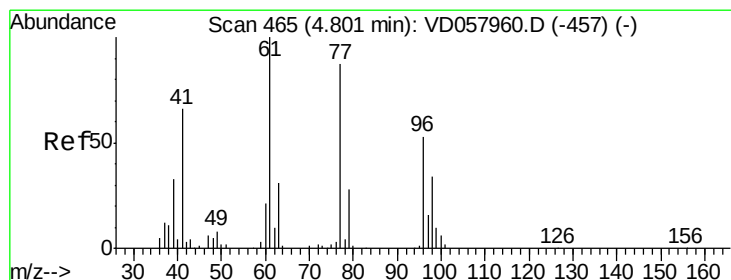
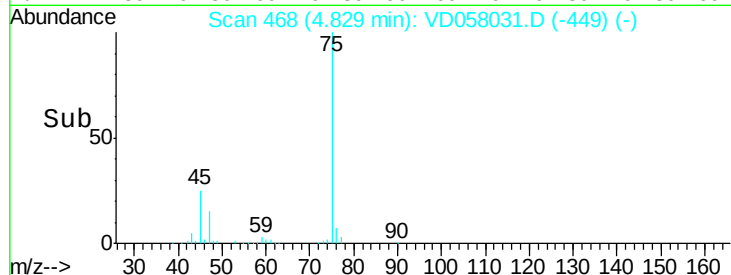
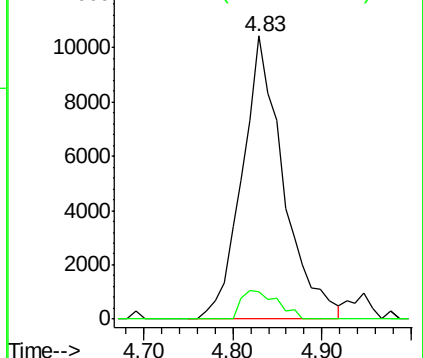
43 100

72 9.5 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 3.156 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.04 min

Lab File: VD058031.D

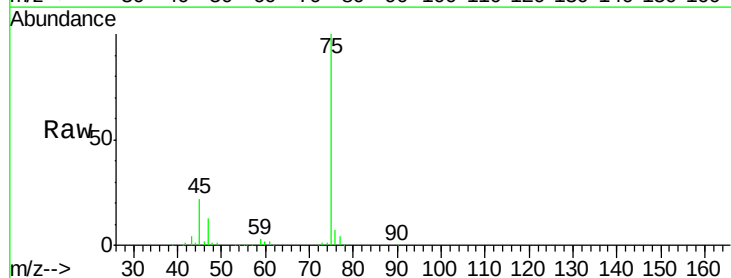
Acq: 8 Jun 2018 21:27

Tgt Ion: 77 Resp: 26470

Ion Ratio Lower Upper

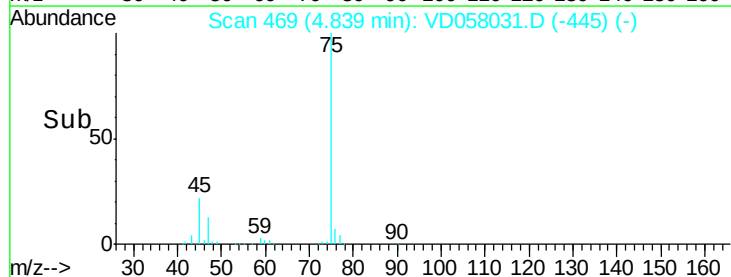
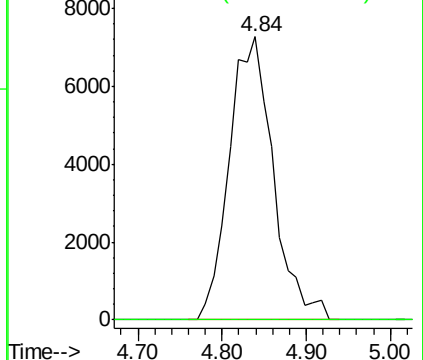
77 100

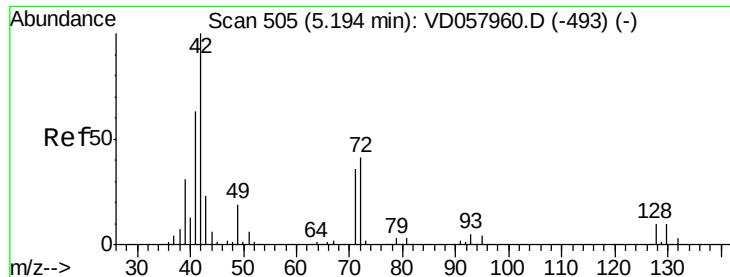
97 0.0 9.2 27.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 1.984 ug/l

RT: 5.18 min Scan# 504

Delta R.T. -0.01 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

Instrument :

MSVOA_D

ClientSampleId :

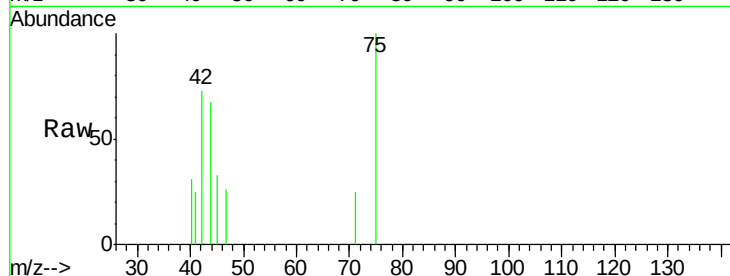
Tot Ion: 42 Resp: 1721

Ion Ratio Lower Upper

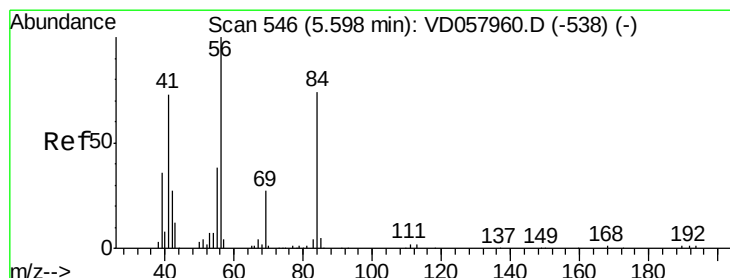
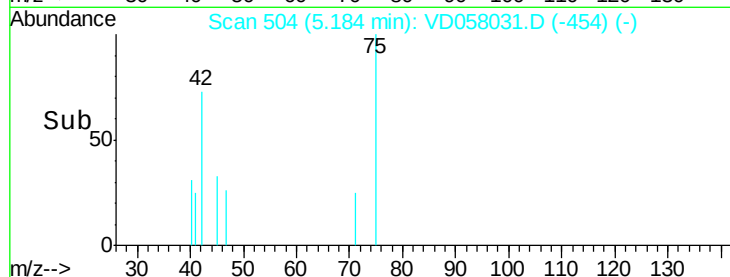
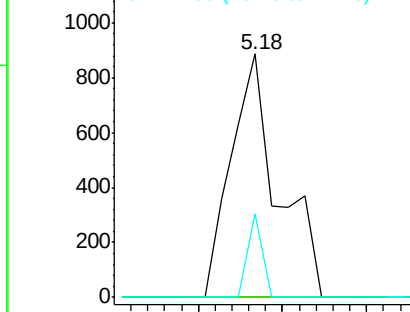
42 100

72 0.0 28.5 42.7#

71 10.5 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.317 ug/l

RT: 5.62 min Scan# 548

Delta R.T. 0.02 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

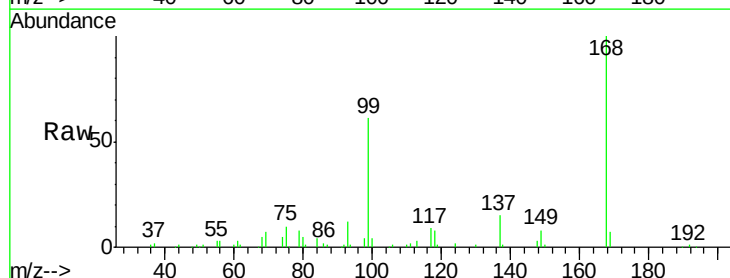
Tgt Ion: 56 Resp: 11572

Ion Ratio Lower Upper

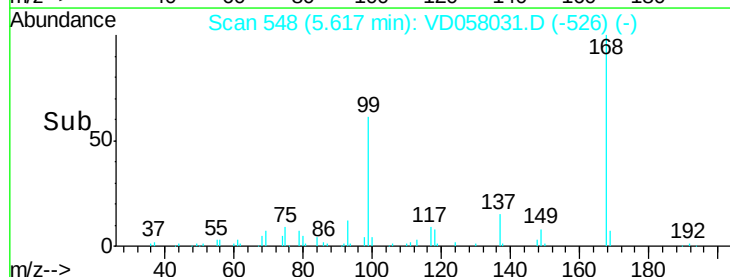
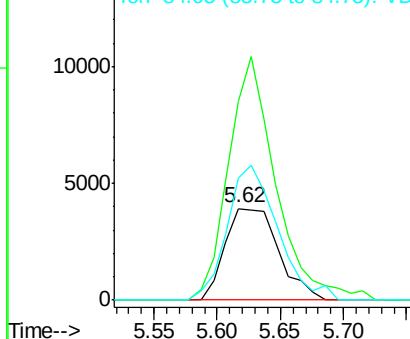
56 100

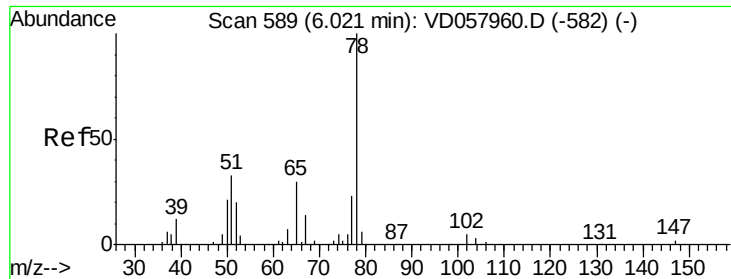
69 216.8 21.5 32.3#

84 133.6 61.0 91.6#



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

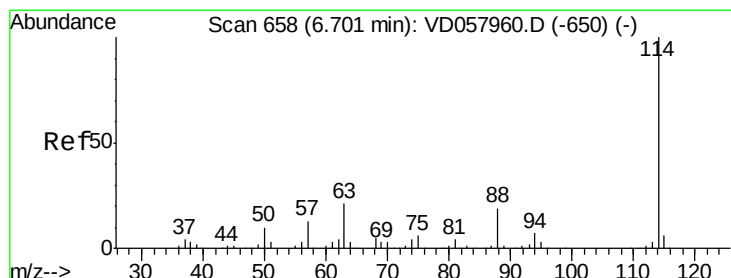
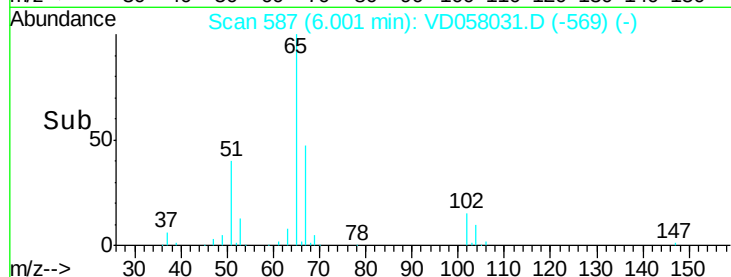
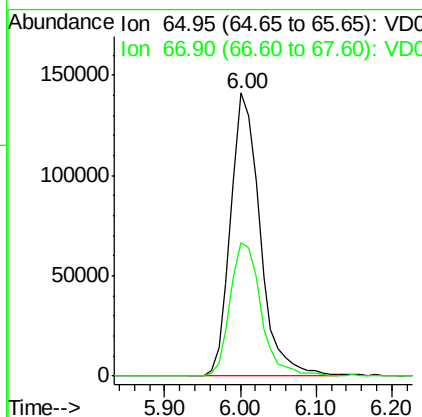
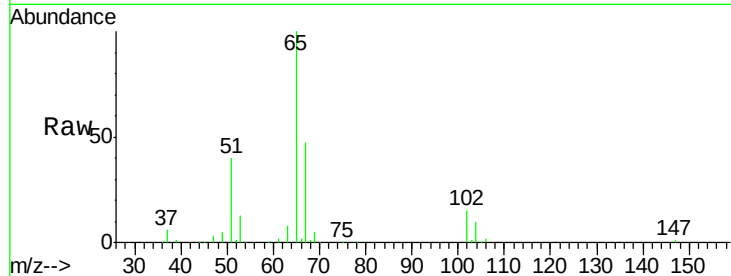




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.00 min Scan# 587
 Delta R.T. -0.02 min
 Lab File: VD058031.D
 Acq: 8 Jun 2018 21:27

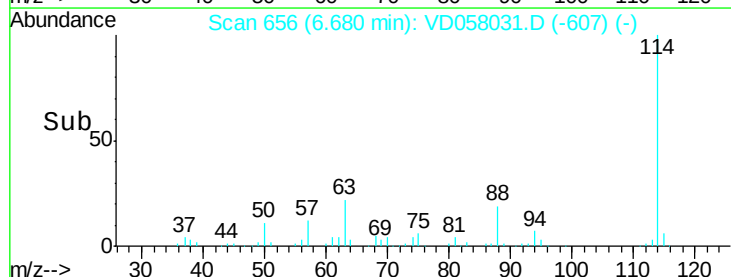
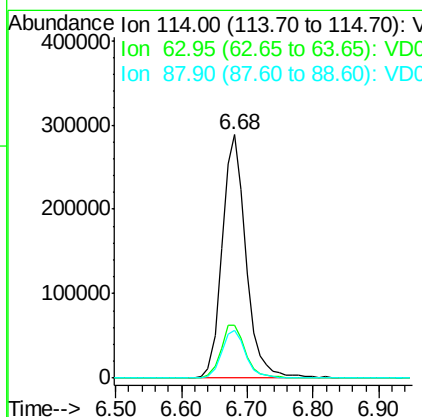
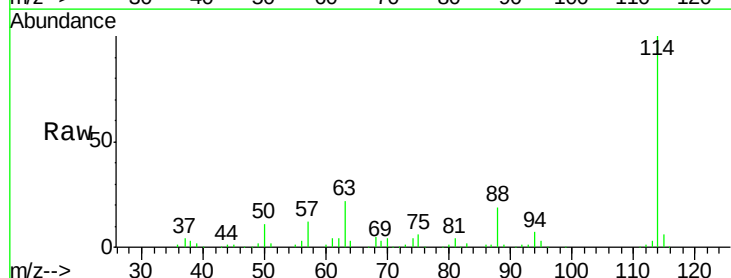
Instrument :
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 ClientSampleId :

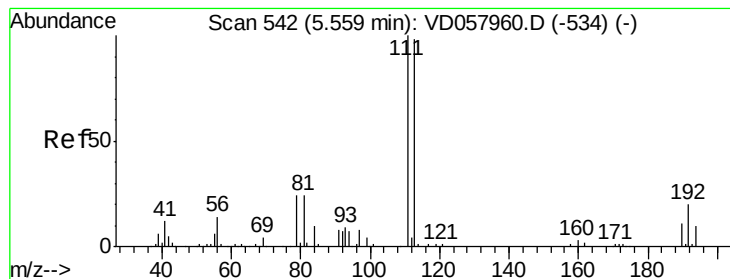
Tot Ion: 65 Resp: 380227
 Ion Ratio Lower Upper
 65 100
 67 47.2 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD058031.D
 Acq: 8 Jun 2018 21:27

Tgt Ion: 114 Resp: 727738
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 42.8
 88 19.5 0.0 37.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

Instrument :

MSVOA_D

ClientSampleId :

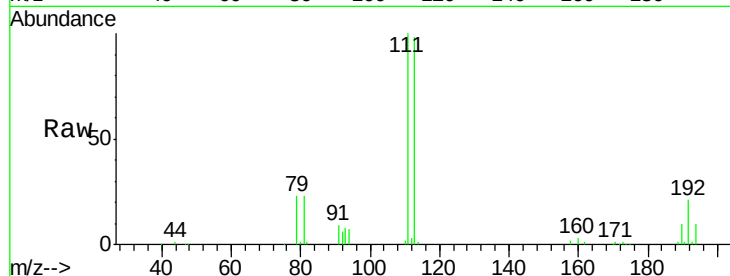
Tot Ion:113 Resp: 371557

Ion Ratio Lower Upper

113 100

111 101.9 81.5 122.3

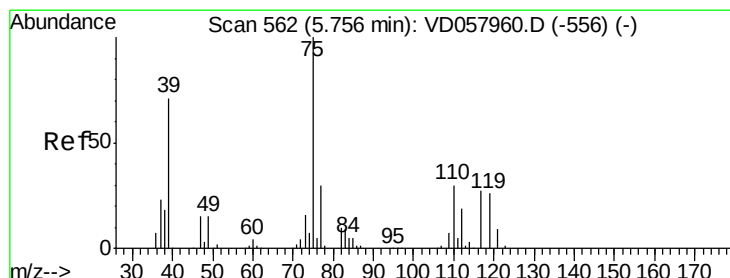
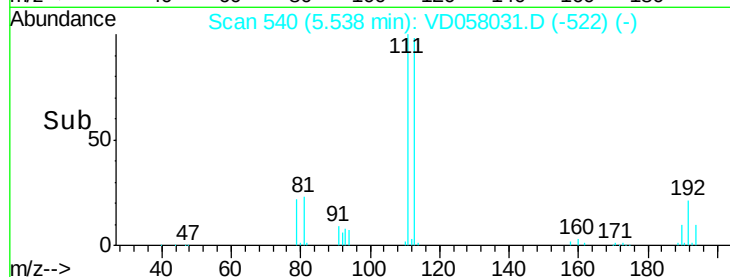
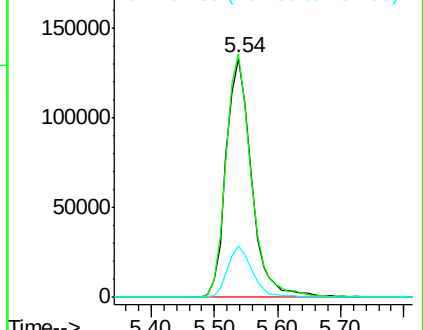
192 21.8 16.4 24.6



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



#36

1,1-Dichloropropene

Concen: 6.208 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.12 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

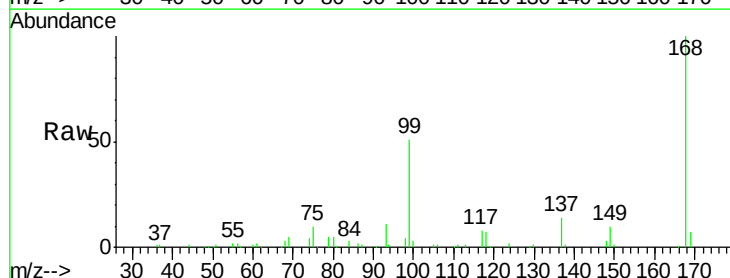
Tgt Ion: 75 Resp: 49772

Ion Ratio Lower Upper

75 100

110 3.6 14.8 44.3#

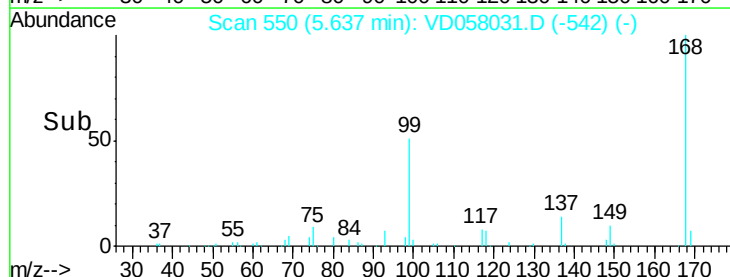
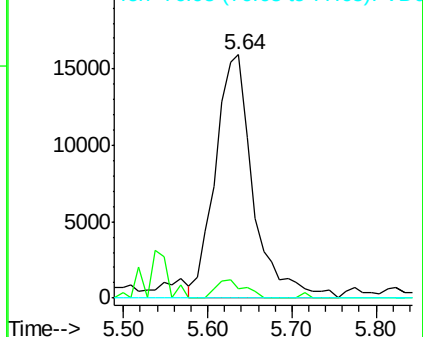
77 0.0 23.9 35.9#

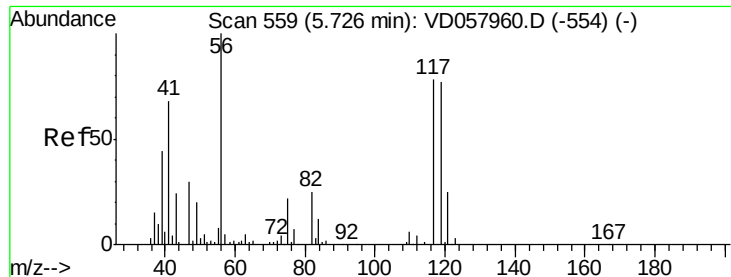


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

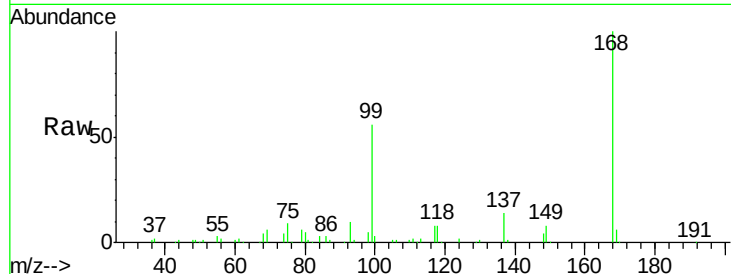




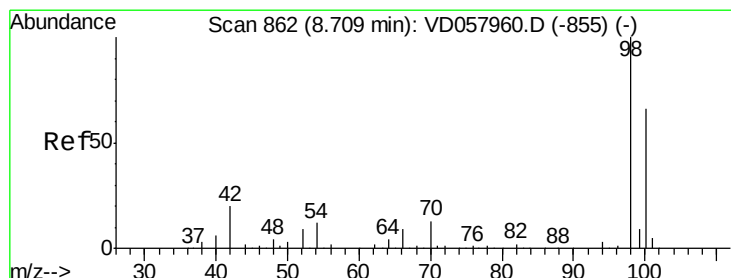
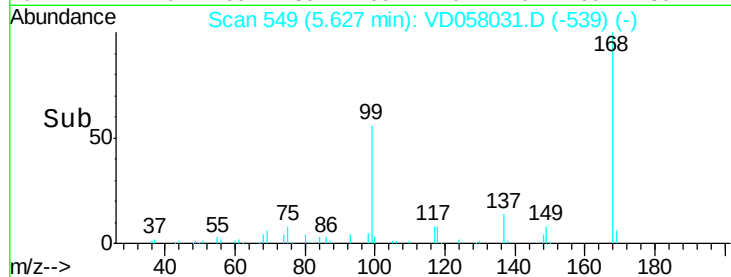
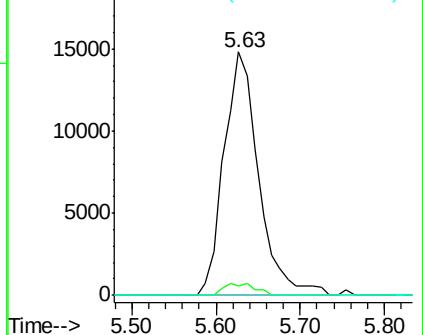
#38
Carbon Tetrachloride
Concen: 5.382 ug/l
RT: 5.63 min Scan# 549
Delta R.T. -0.10 min
Lab File: VD058031.D
Acq: 8 Jun 2018 21:27

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 42531
Ion Ratio Lower Upper
117 100
119 3.9 76.1 114.1#
121 0.0 24.9 37.3#

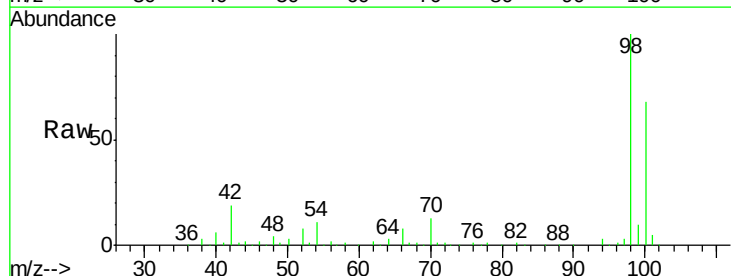


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

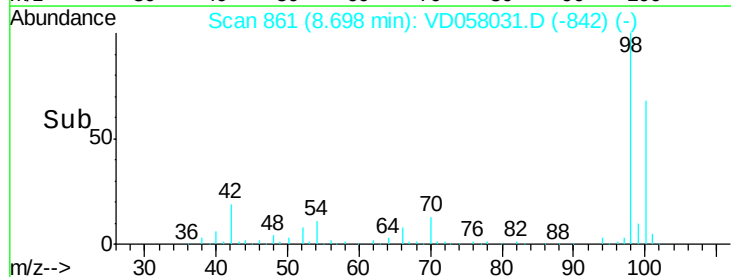
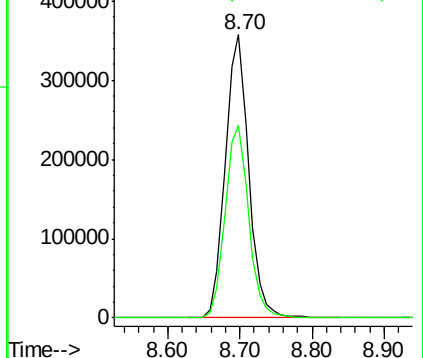


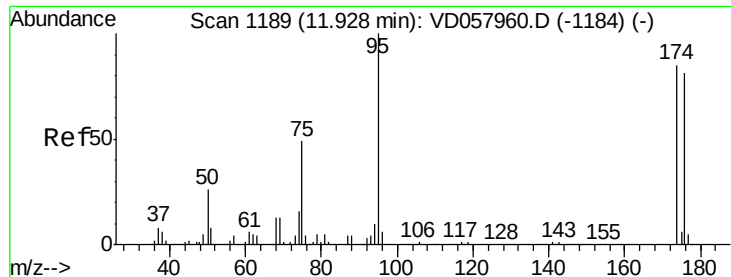
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD058031.D
Acq: 8 Jun 2018 21:27

Tgt Ion: 98 Resp: 805552
Ion Ratio Lower Upper
98 100
100 67.9 53.4 80.0



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

Instrument :

MSVOA_D

ClientSampleId :

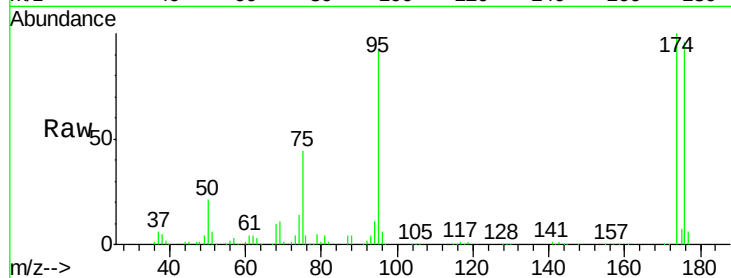
Tot Ion: 95 Resp: 370408

Ion Ratio Lower Upper

95 100

174 109.1 0.0 169.4

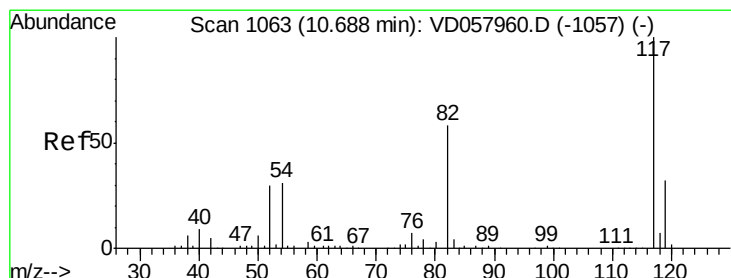
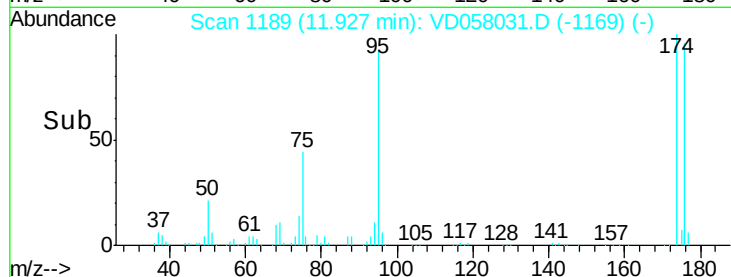
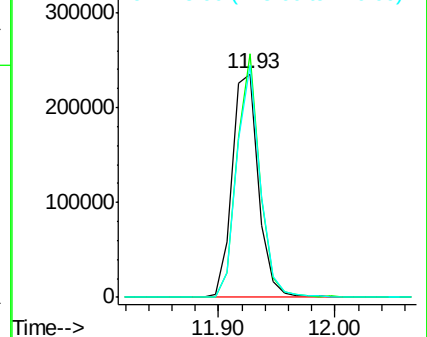
176 104.2 0.0 162.6



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: 10.68 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

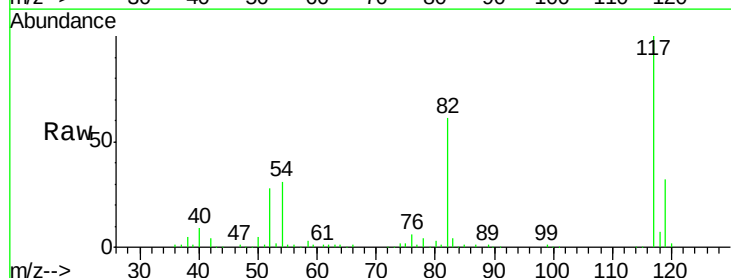
Tgt Ion: 117 Resp: 633192

Ion Ratio Lower Upper

117 100

82 60.7 46.8 70.2

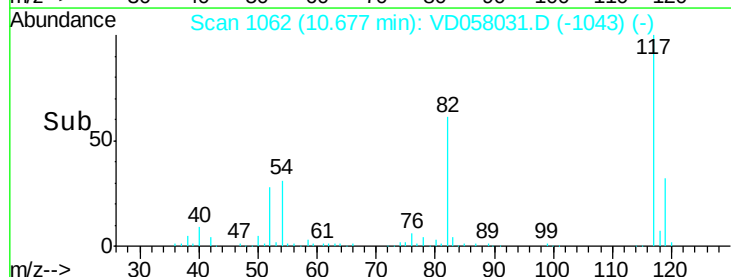
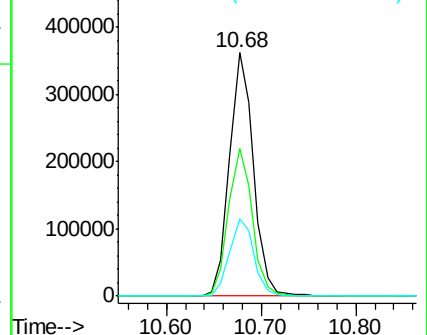
119 31.6 25.8 38.6

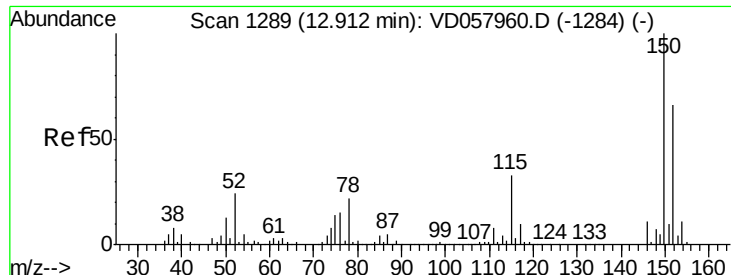


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD058031.D

Acq: 8 Jun 2018 21:27

Instrument :

MSVOA_D

ClientSampled :

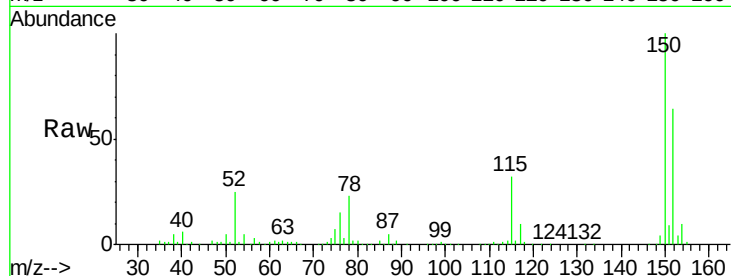
Tot Ion:152 Resp: 342029

Ion Ratio Lower Upper

152 100

115 49.9 25.6 76.6

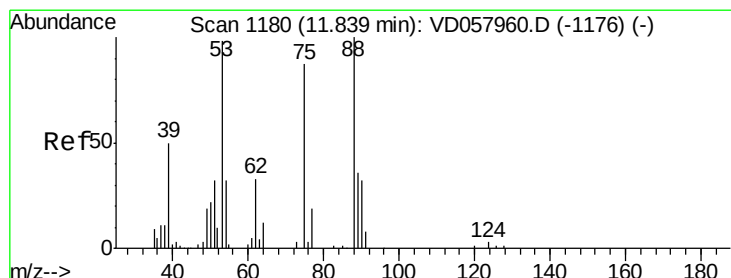
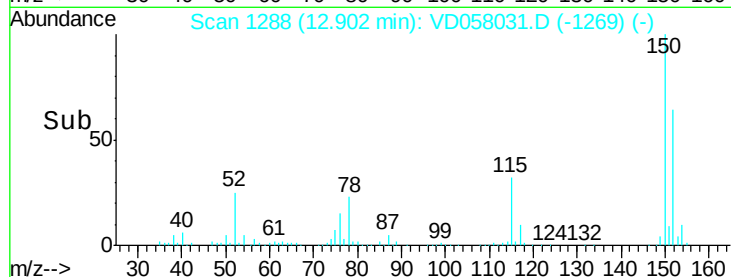
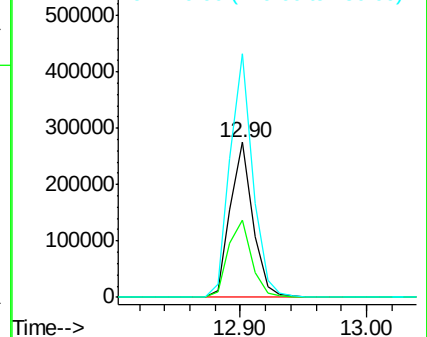
150 157.3 0.0 306.8



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: 144.751 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

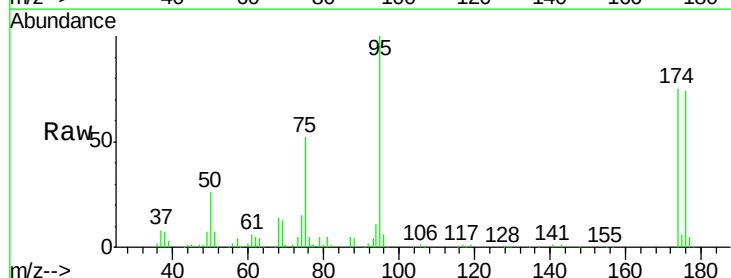
Tgt Ion: 75 Resp: 184202

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

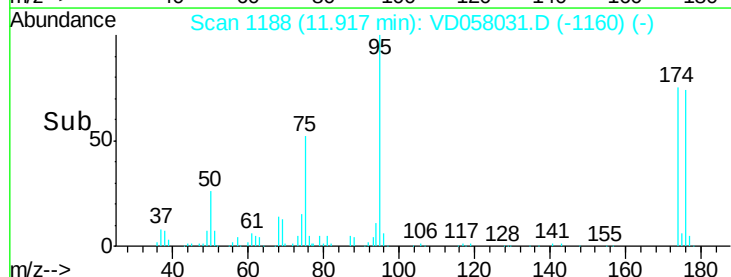
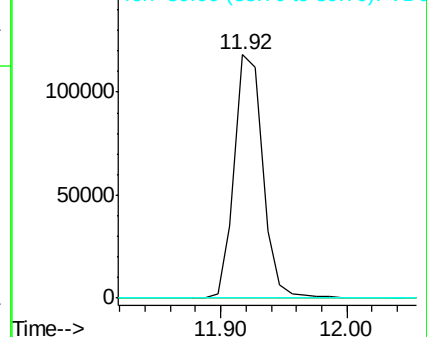
89 0.0 33.3 49.9#

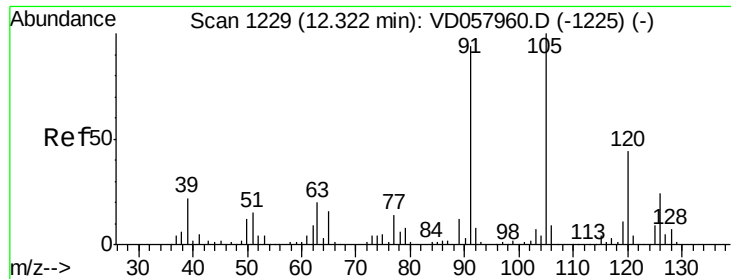


Abundance Ion 75.00 (74.70 to 75.70): VDC

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: VD058031.D

Acq: 8 Jun 2018 21:27

Instrument :

MSVOA_D

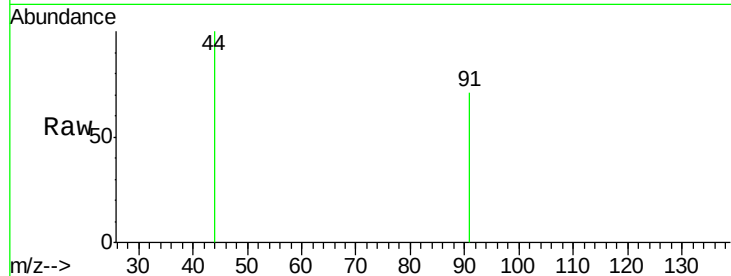
ClientSampleId :

Tot Ion: 91 Resp: 597

Ion Ratio Lower Upper

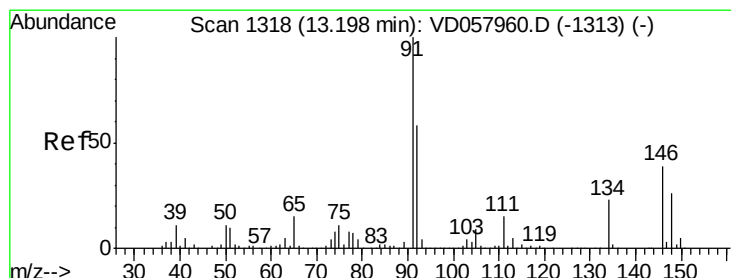
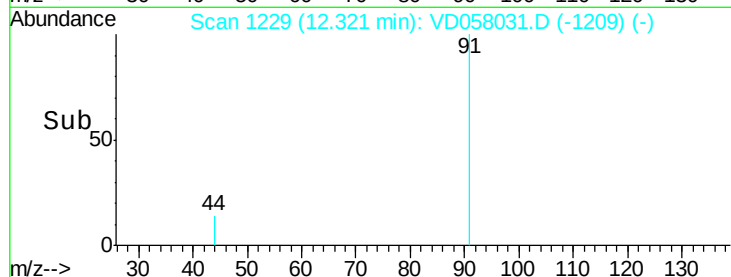
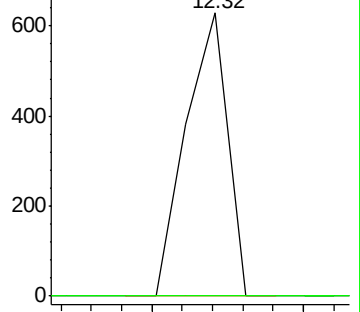
91 100

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: 13.19 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VD058031.D

Acq: 8 Jun 2018 21:27

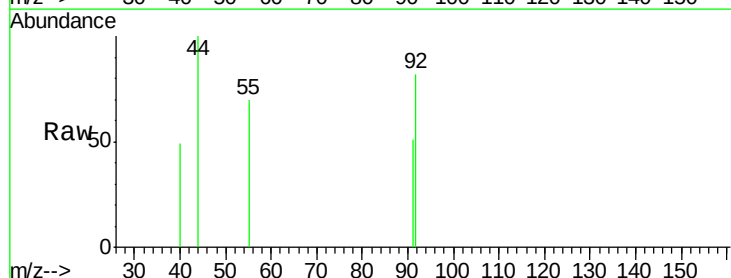
Tgt Ion: 91 Resp: 194

Ion Ratio Lower Upper

91 100

92 162.2 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

