

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061518\
 Data File : VD058170.D
 Acq On : 15 Jun 2018 23:43
 Operator : VA/AP
 Sample : J3518-03
 Misc : 6.78g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

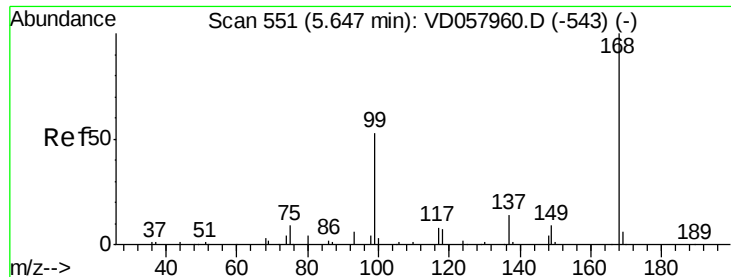
Quant Time: Jun 16 00:48:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	16588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	32458	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	27249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	11479	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	23967	144.52	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	289.04%	
35) Dibromofluoromethane	5.54	113	18137	72.22	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	144.44%	
50) Toluene-d8	8.71	98	33300	55.77	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.54%	
62) 4-Bromofluorobenzene	11.93	95	15808	60.69	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	121.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.85	94	375	9.015	ug/l #	3
11) Tert butyl alcohol	3.33	59	219	49.296	ug/l #	74
12) 1,1-Dichloroethene	2.61	96	227	3.412	ug/l #	1
14) Allyl chloride	2.98	41	249	1.622	ug/l #	10
15) Acrylonitrile	3.35	53	180	6.926	ug/l #	15
16) Acetone	2.61	43	21599	903.993	ug/l #	88
18) Methyl Acetate	2.93	43	835	18.066	ug/l #	66
20) Methylene Chloride	3.08	84	389	Below Cal	#	39
25) 2-Butanone	4.82	43	240	4.420	ug/l #	64
29) Tetrahydrofuran	4.85	42	185	6.499	ug/l #	39
36) 1,1-Dichloropropene	5.63	75	1006	2.813	ug/l #	45
37) Ethyl Acetate	4.91	43	679	3.480	ug/l #	72
38) Carbon Tetrachloride	5.63	117	1266	3.592	ug/l #	12
51) 4-Methyl-2-Pentanone	8.55	43	192	1.171	ug/l #	42
59) 2-Hexanone	9.78	43	267	2.222	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.86	75	190	4.449	ug/l #	6
82) 4-Chlorotoluene	12.32	91	191	Below Cal	#	50
95) Naphthalene	14.52	128	10346	27.917	ug/l #	90

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058170.D

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Instrument :

MSVOA_D

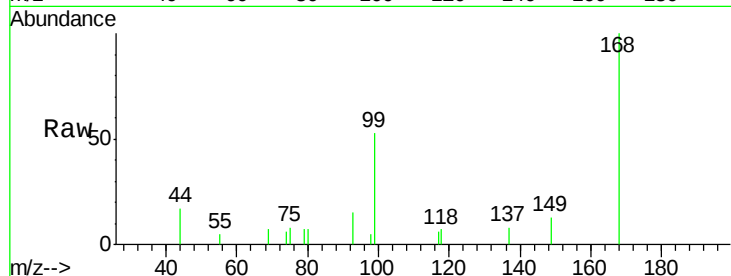
ClientSampleId :

Tot Ion:168 Resp: 16588

Ion Ratio Lower Upper

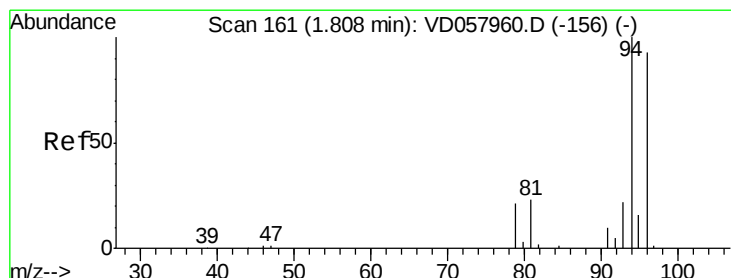
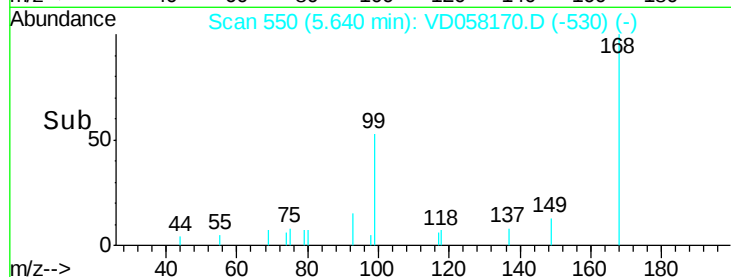
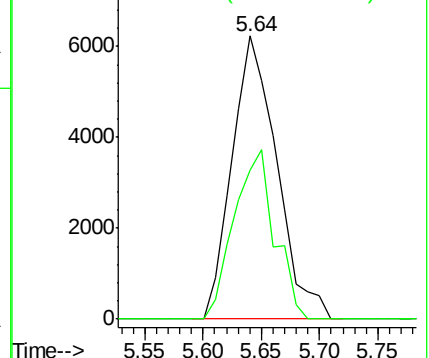
168 100

99 52.8 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 9.015 ug/l

RT: 1.85 min Scan# 165

Delta R.T. 0.04 min

Lab File: VD058170.D

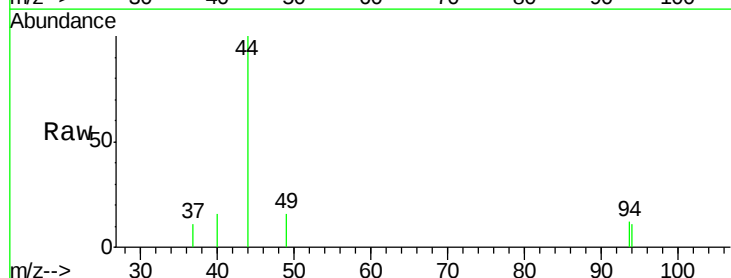
Acq: 15 Jun 2018 23:43

Tgt Ion: 94 Resp: 375

Ion Ratio Lower Upper

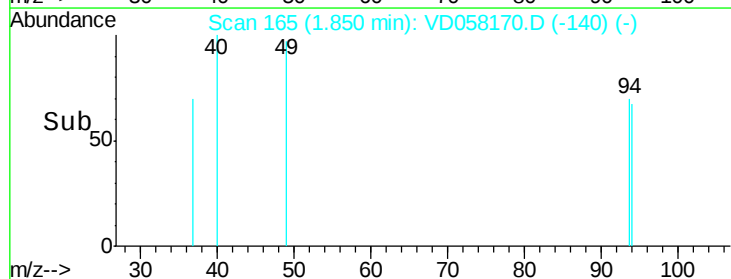
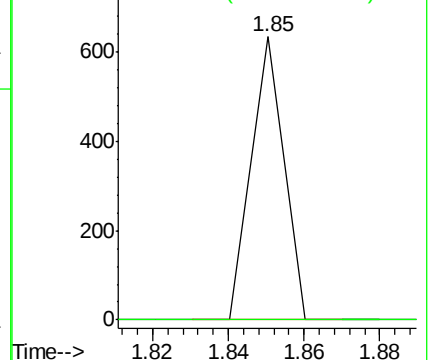
94 100

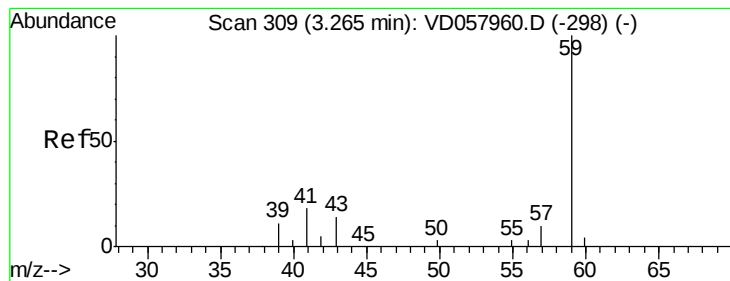
96 0.0 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



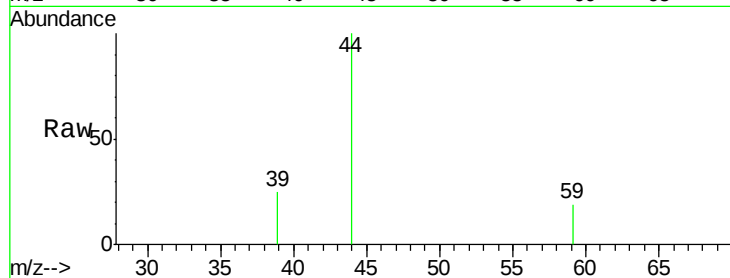


#11

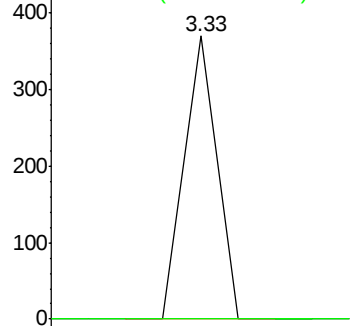
Tert butyl alcohol
 Concen: 49.296 ug/l
 RT: 3.33 min Scan# 315
 Delta R.T. 0.06 min
 Lab File: VD058170.D
 Acq: 15 Jun 2018 23:43

Instrument :
 MSVOA_D
 ClientSampleId :

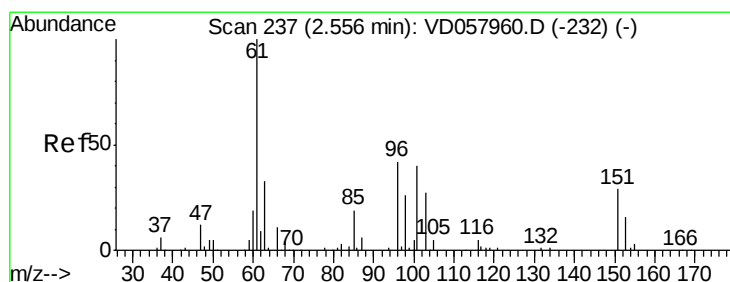
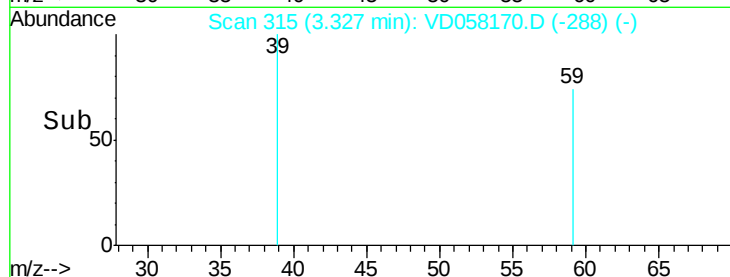
Tot Ion: 59 Resp: 219
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



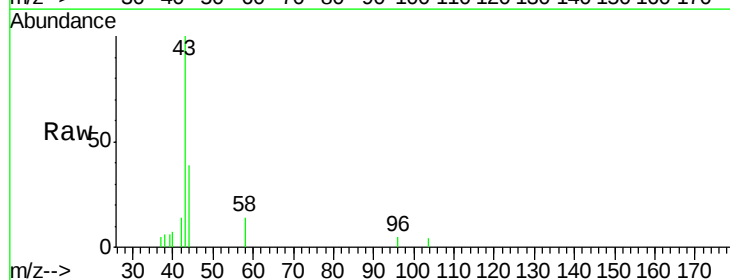
Time-->



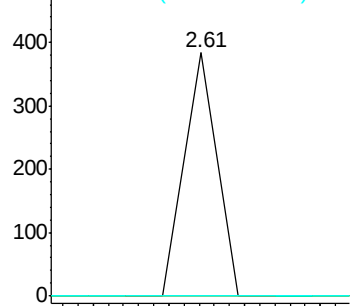
#12

1,1-Dichloroethene
 Concen: 3.412 ug/l
 RT: 2.61 min Scan# 242
 Delta R.T. 0.05 min
 Lab File: VD058170.D
 Acq: 15 Jun 2018 23:43

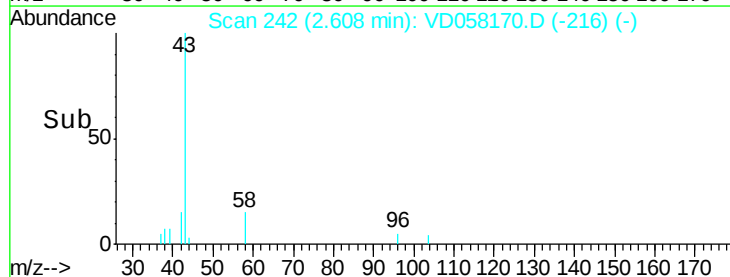
Tgt Ion: 96 Resp: 227
 Ion Ratio Lower Upper
 96 100
 61 0.0 190.2 285.4#
 98 0.0 49.6 74.4#

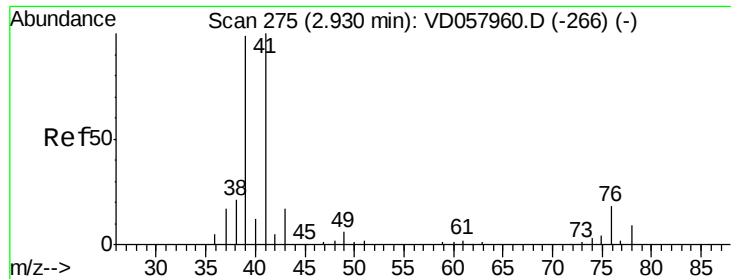


Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



Time-->

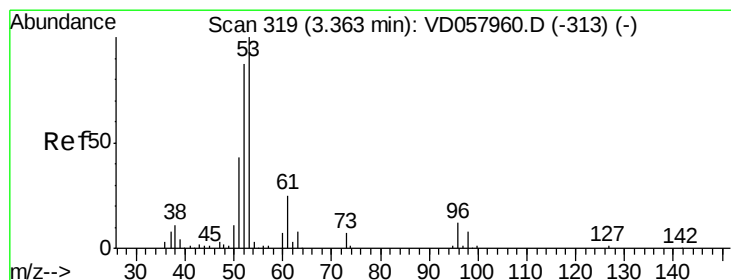
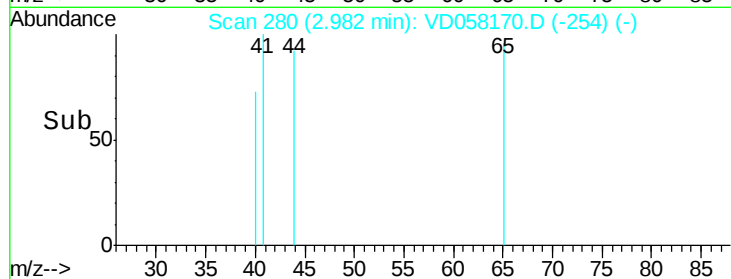
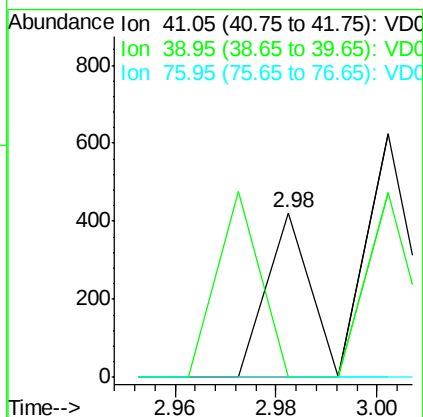
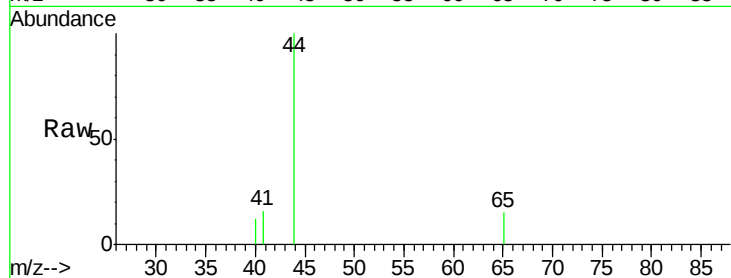




#14
Allvl chloride
Concen: 1.622 ug/l
RT: 2.98 min Scan# 280
Delta R.T. 0.05 min
Lab File: VD058170.D
Acq: 15 Jun 2018 23:43

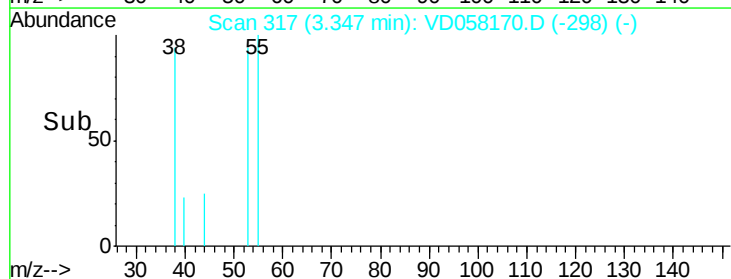
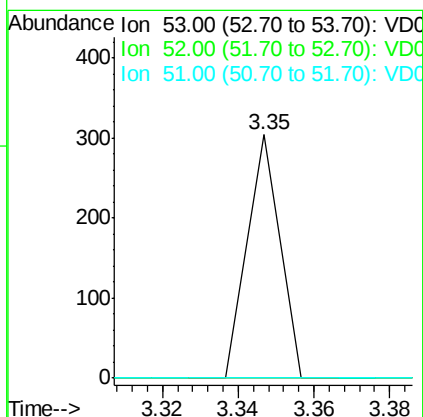
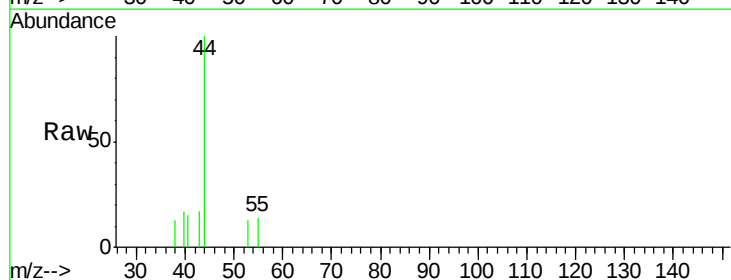
Instrument :
MSVOA_D
ClientSampleId :

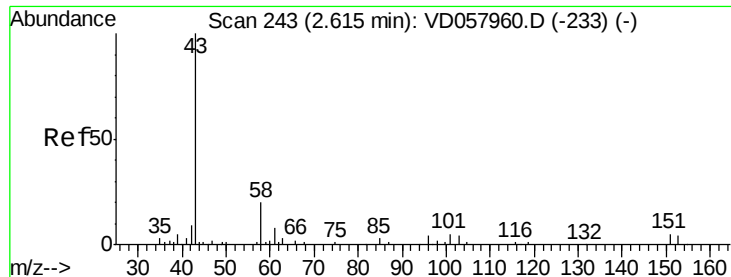
Tot Ion: 41 Resp: 249
Ion Ratio Lower Upper
41 100
39 0.0 79.5 119.3#
76 0.0 20.7 31.1#



#15
Acrylonitrile
Concen: 6.926 ug/l
RT: 3.35 min Scan# 317
Delta R.T. -0.02 min
Lab File: VD058170.D
Acq: 15 Jun 2018 23:43

Tgt Ion: 53 Resp: 180
Ion Ratio Lower Upper
53 100
52 0.0 69.9 104.9#
51 0.0 34.3 51.5#





#16

Acetone

Concen: 903.993 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

Instrument :

MSVOA_D

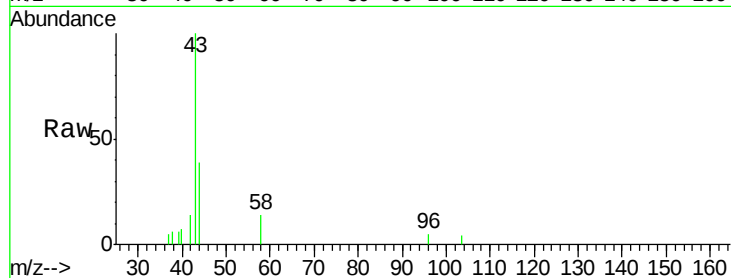
ClientSampleId :

Tot Ion: 43 Resp: 21599

Ion Ratio Lower Upper

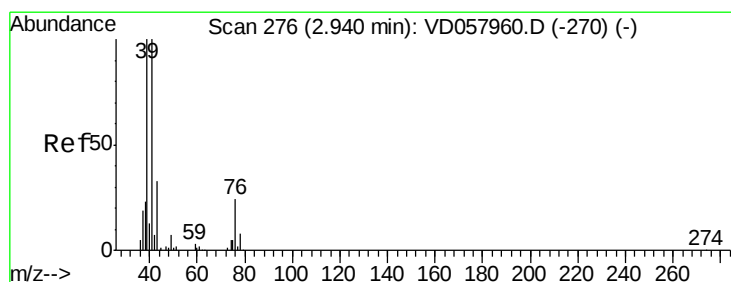
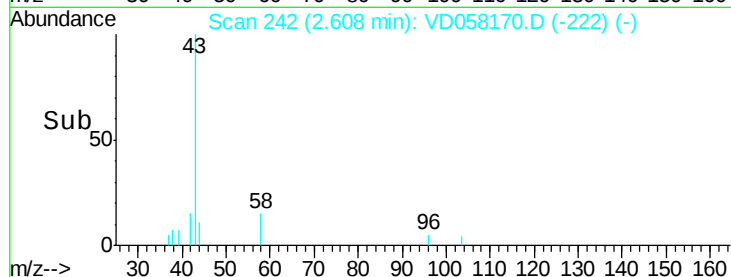
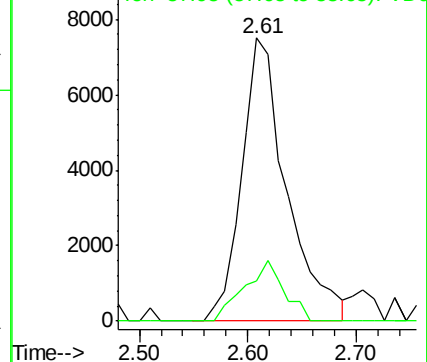
43 100

58 14.2 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: 18.066 ug/l

RT: 2.93 min Scan# 275

Delta R.T. -0.01 min

Lab File: VD058170.D

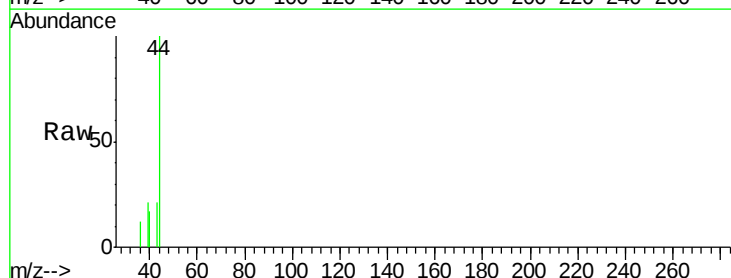
Acq: 15 Jun 2018 23:43

Tgt Ion: 43 Resp: 835

Ion Ratio Lower Upper

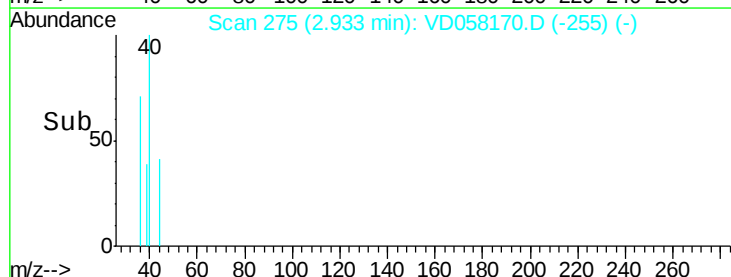
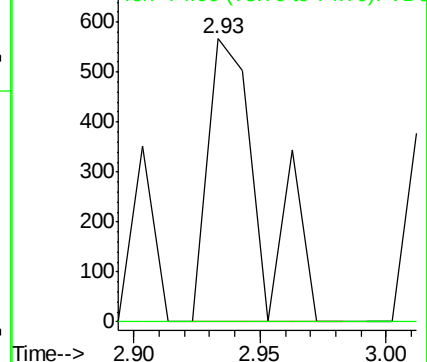
43 100

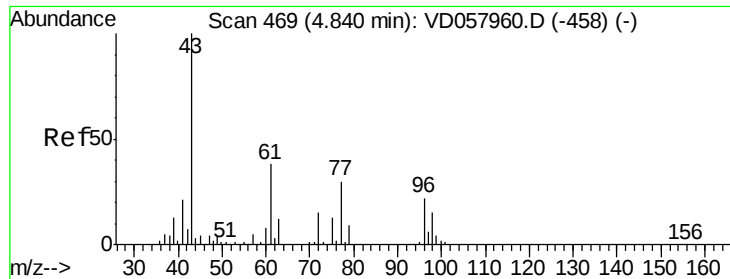
74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

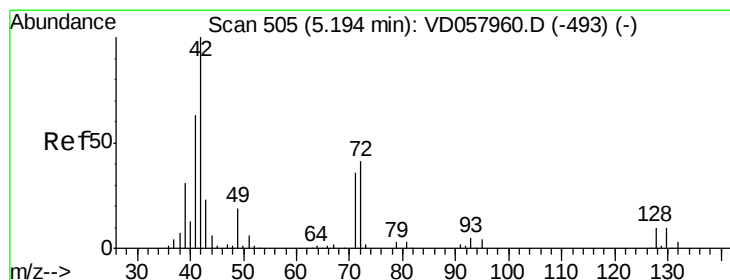
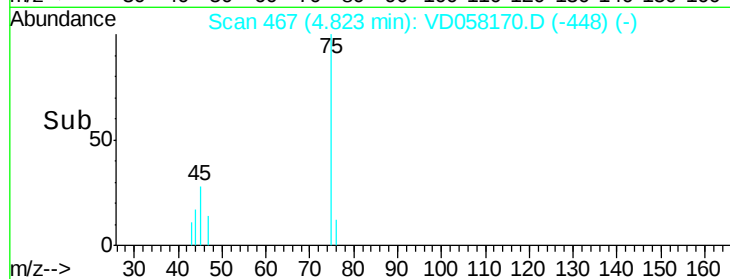
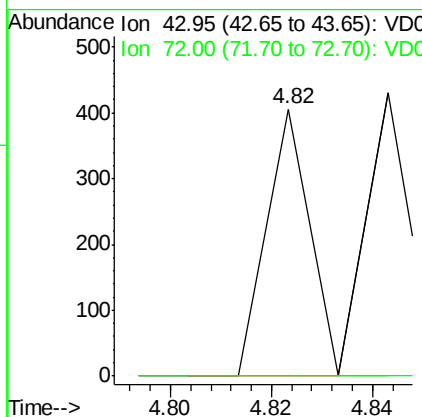
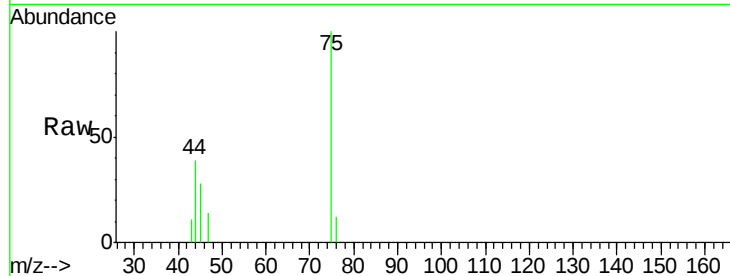




#25
2-Butanone
Concen: 4.420 ug/l
RT: 4.82 min Scan# 467
Delta R.T. -0.02 min
Lab File: VD058170.D
Acq: 15 Jun 2018 23:43

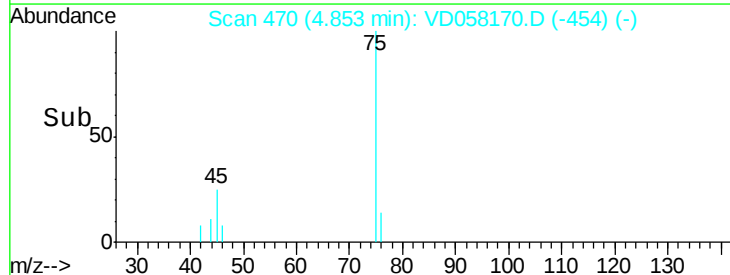
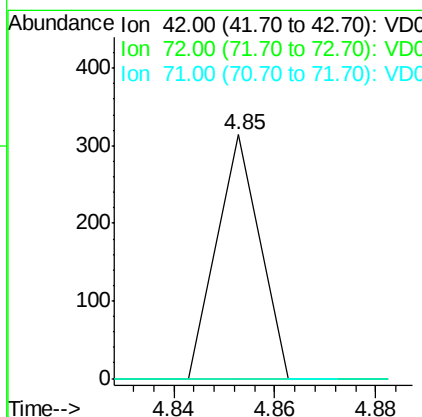
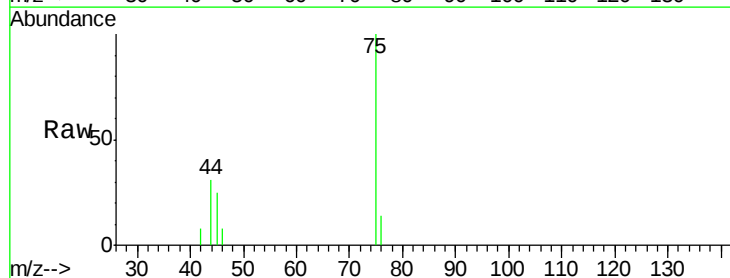
Instrument :
MSVOA_D
ClientSampleId :

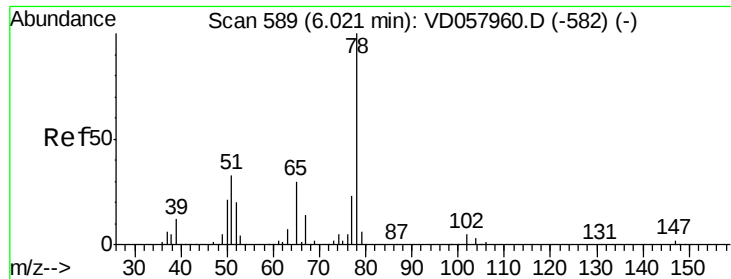
Tot Ion: 43 Resp: 240
Ion Ratio Lower Upper
43 100
72 0.0 12.0 18.0#



#29
Tetrahydrofuran
Concen: 6.499 ug/l
RT: 4.85 min Scan# 470
Delta R.T. -0.34 min
Lab File: VD058170.D
Acq: 15 Jun 2018 23:43

Tgt Ion: 42 Resp: 185
Ion Ratio Lower Upper
42 100
72 0.0 28.5 42.7#
71 0.0 27.9 41.9#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

Instrument :

MSVOA_D

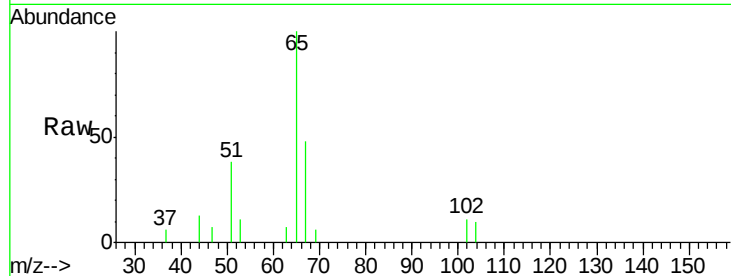
ClientSampleId :

Tot Ion: 65 Resp: 23967

Ion Ratio Lower Upper

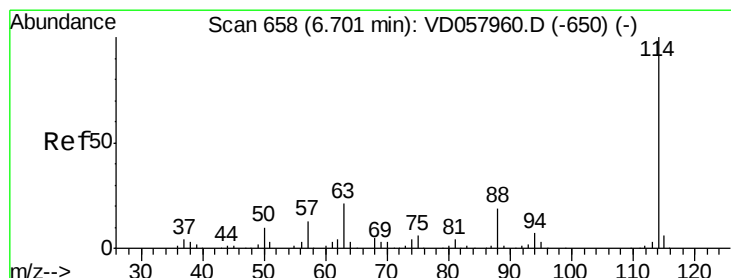
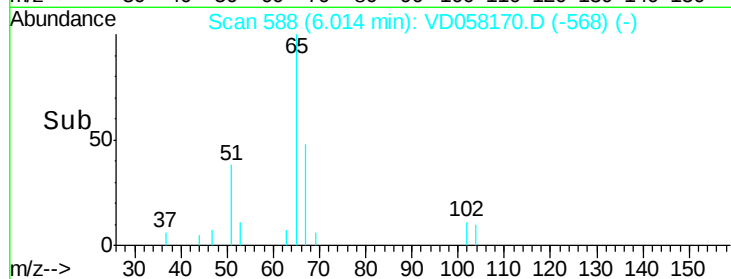
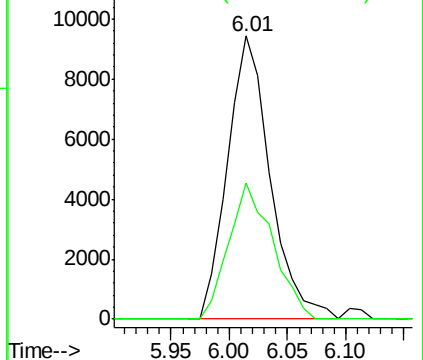
65 100

67 48.1 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: VD058170.D

Acq: 15 Jun 2018 23:43

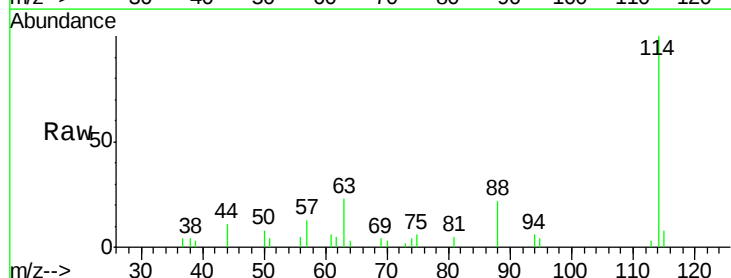
Tgt Ion: 114 Resp: 32458

Ion Ratio Lower Upper

114 100

63 22.6 0.0 42.8

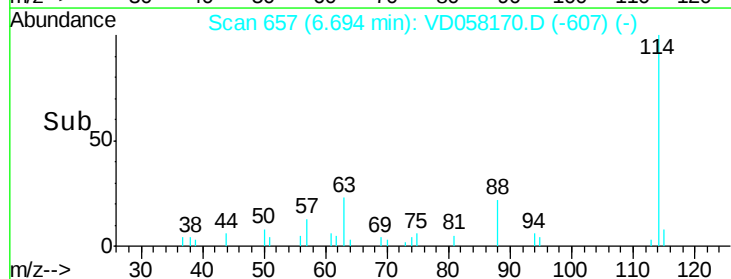
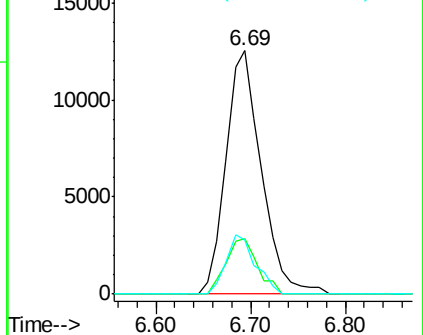
88 22.4 0.0 37.8

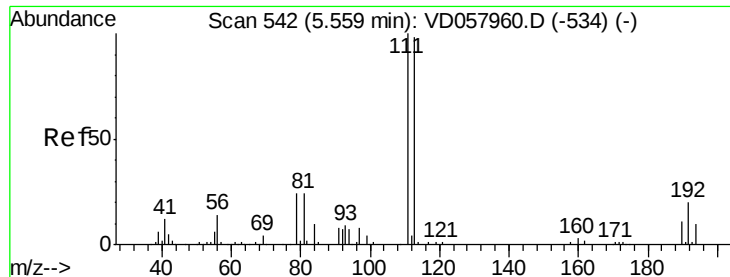


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

Instrument :

MSVOA_D

ClientSampleId :

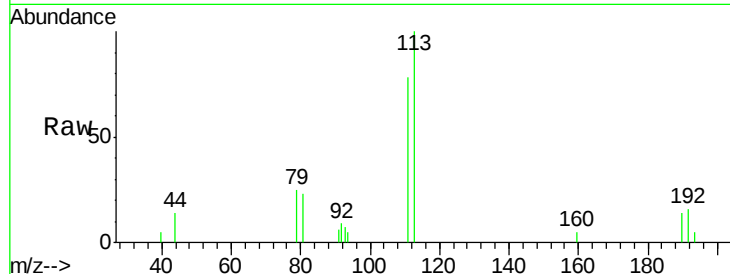
Tot Ion:113 Resp: 18137

Ion Ratio Lower Upper

113 100

111 77.6 81.5 122.3#

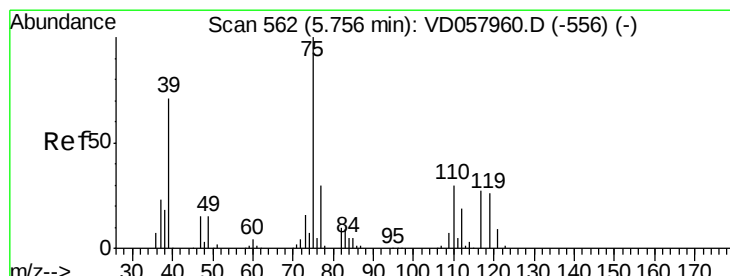
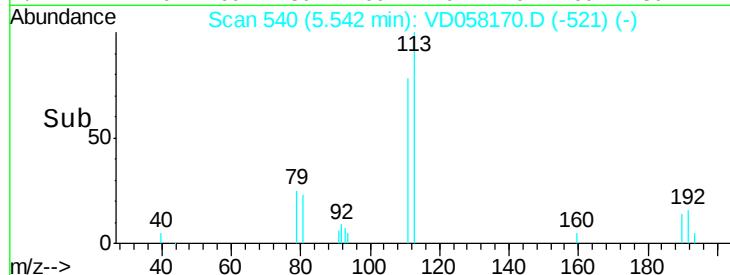
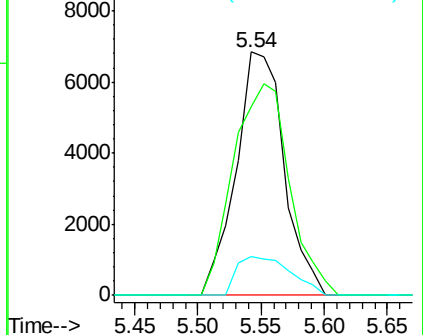
192 16.0 16.4 24.6#



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: 2.813 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.13 min

Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

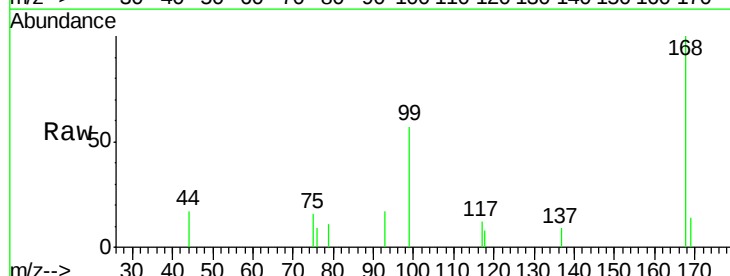
Tgt Ion: 75 Resp: 1006

Ion Ratio Lower Upper

75 100

110 0.0 14.8 44.3#

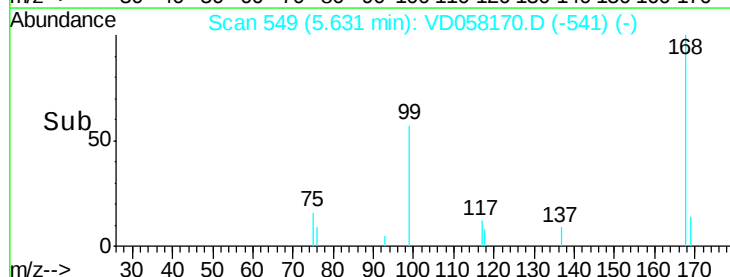
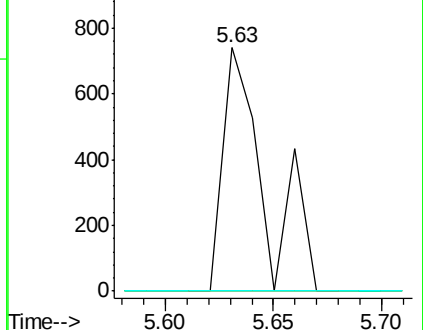
77 0.0 23.9 35.9#

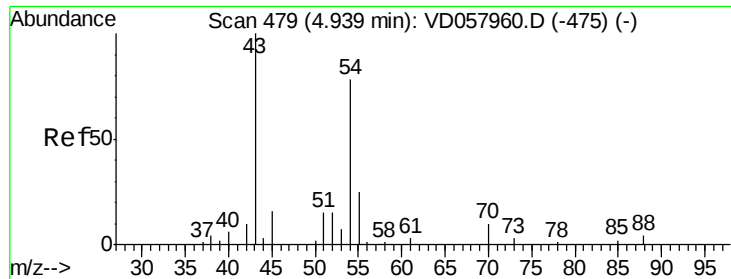


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 3.480 ug/l

RT: 4.91 min Scan# 476

Delta R.T. -0.03 min

Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

Instrument :

MSVOA_D

ClientSampleId :

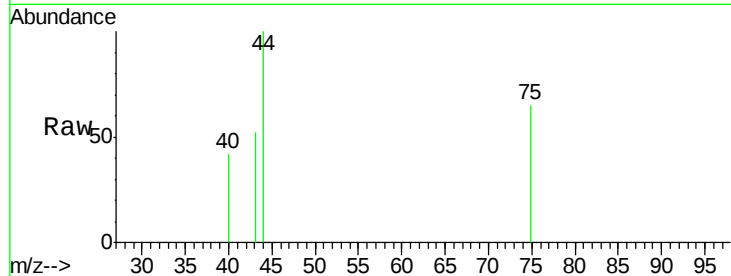
Tot Ion: 43 Resp: 679

Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

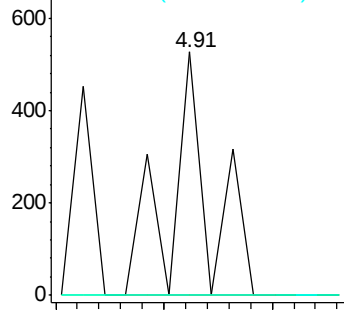
70 0.0 5.7 8.5#



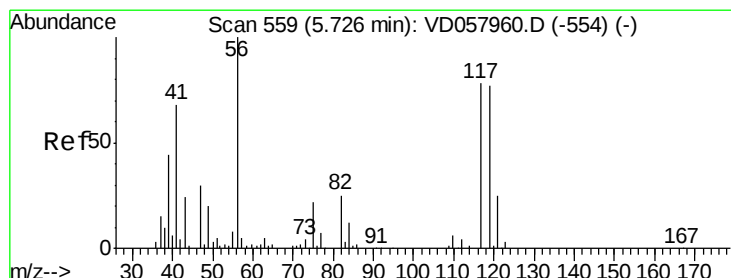
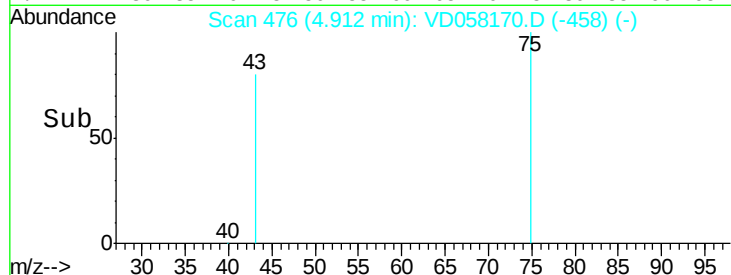
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



Time-->



#38

Carbon Tetrachloride

Concen: 3.592 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.10 min

Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

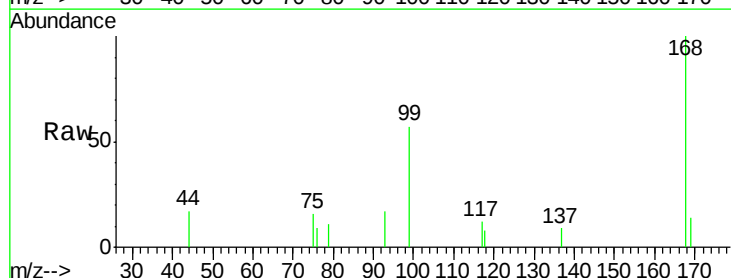
Tgt Ion: 117 Resp: 1266

Ion Ratio Lower Upper

117 100

119 0.0 76.1 114.1#

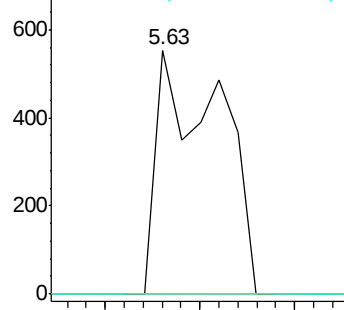
121 0.0 24.9 37.3#



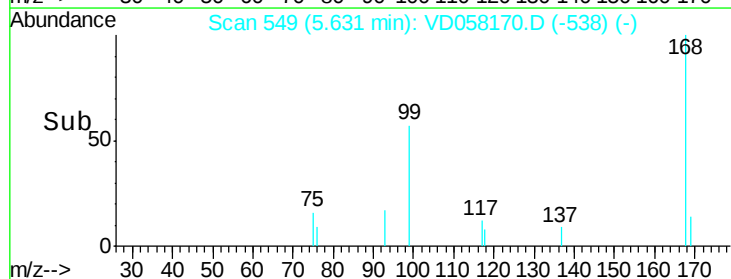
Abundance Ion 116.85 (116.55 to 117.55): V

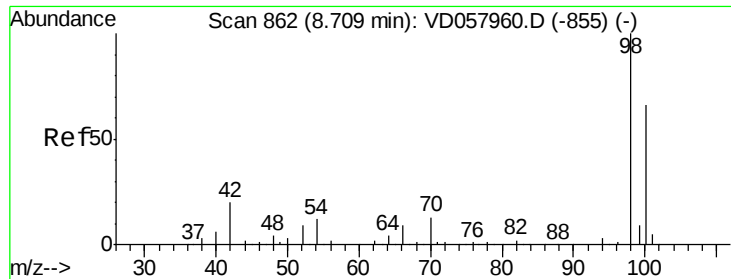
Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



Time-->

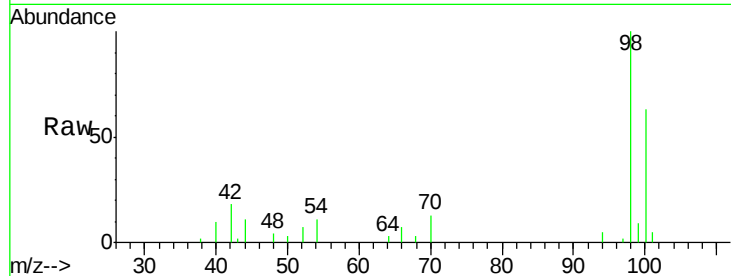




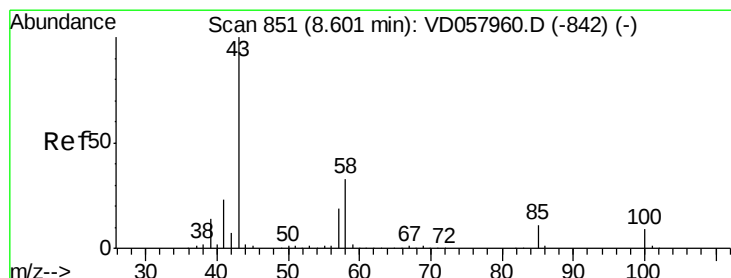
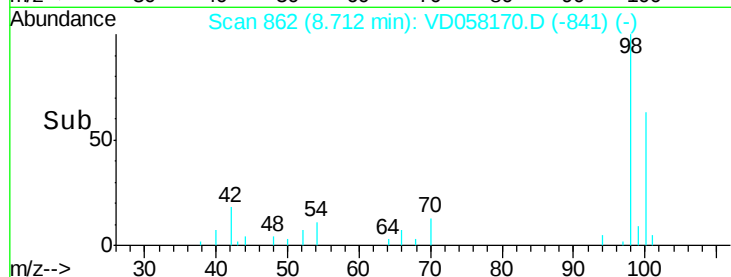
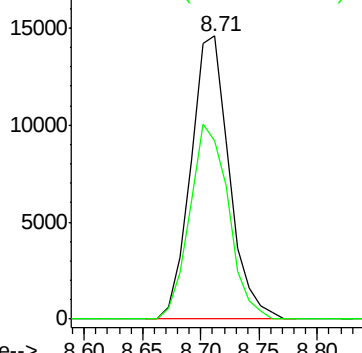
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.00 min
Lab File: VD058170.D
Acq: 15 Jun 2018 23:43

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 33300
Ion Ratio Lower Upper
98 100
100 62.9 53.4 80.0

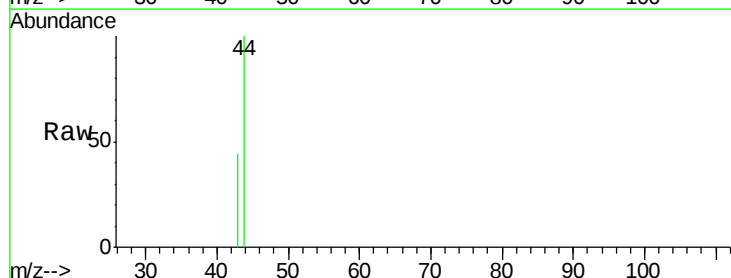


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

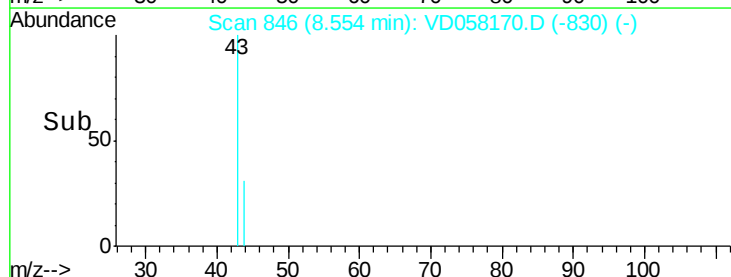
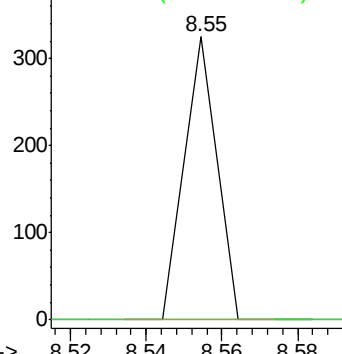


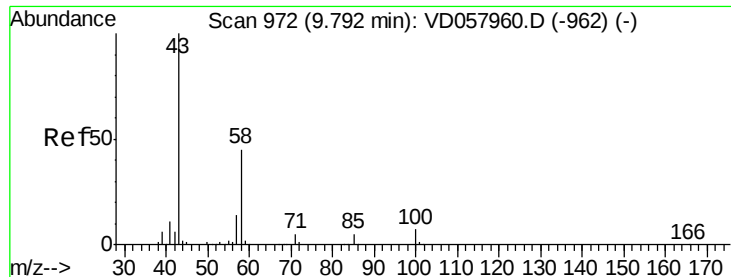
#51
4-Methyl-2-Pentanone
Concen: 1.171 ug/l
RT: 8.55 min Scan# 846
Delta R.T. -0.05 min
Lab File: VD058170.D
Acq: 15 Jun 2018 23:43

Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
58 0.0 26.2 39.4#



Abundance Ion 42.95 (42.65 to 43.65): VD0
Ion 57.95 (57.65 to 58.65): VD0

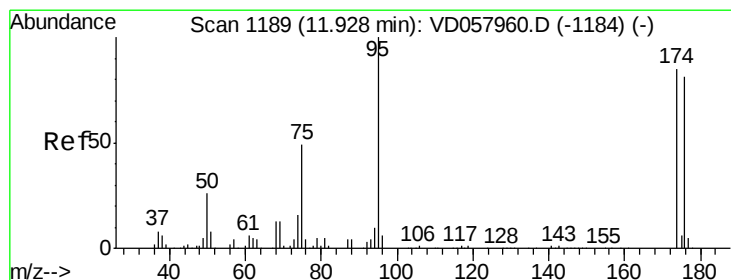
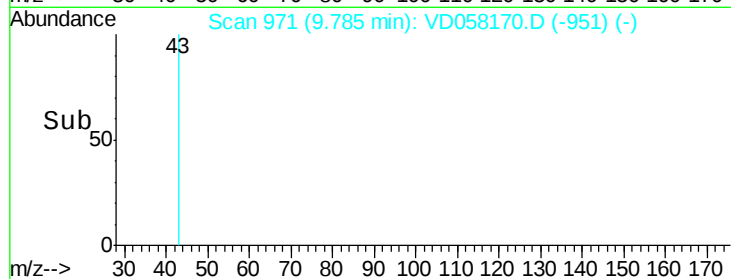
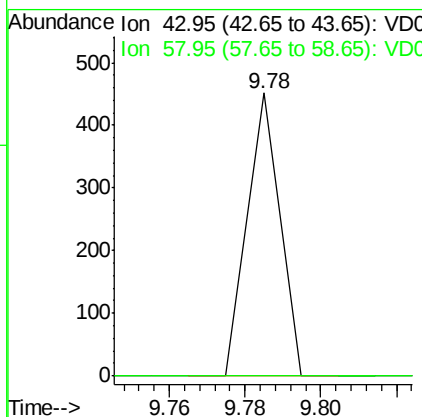
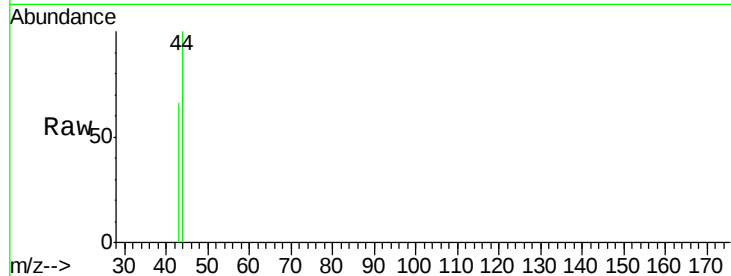




#59
2-Hexanone
Concen: 2.222 ug/l
RT: 9.78 min Scan# 971
Delta R.T. -0.01 min
Lab File: VD058170.D
Acq: 15 Jun 2018 23:43

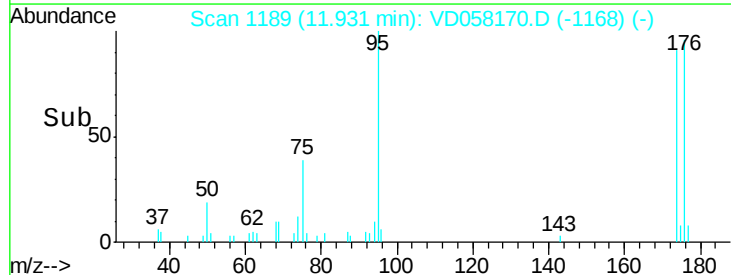
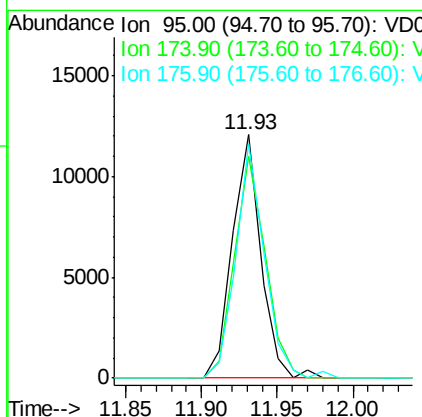
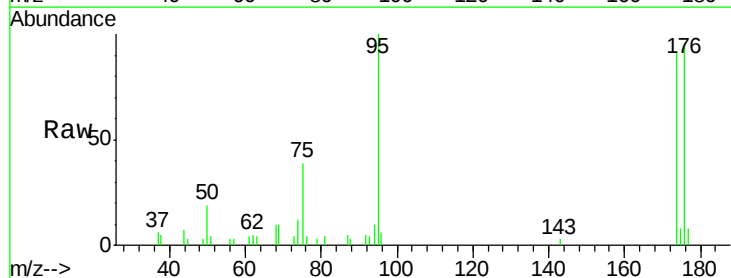
Instrument :
MSVOA_D
ClientSampled :

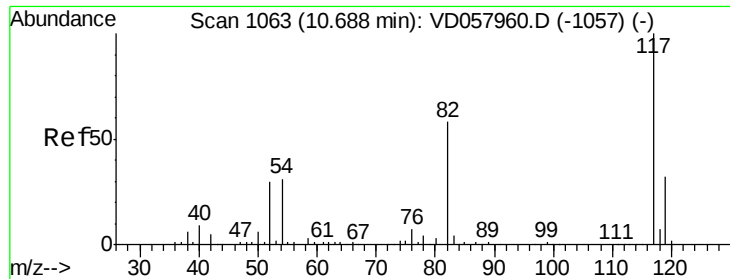
Tot Ion: 43 Resp: 267
Ion Ratio Lower Upper
43 100
58 0.0 22.5 67.5#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VD058170.D
Acq: 15 Jun 2018 23:43

Tgt Ion: 95 Resp: 15808
Ion Ratio Lower Upper
95 100
174 91.3 0.0 169.4
176 96.5 0.0 162.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.69 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

Instrument :

MSVOA_D

ClientSampleId :

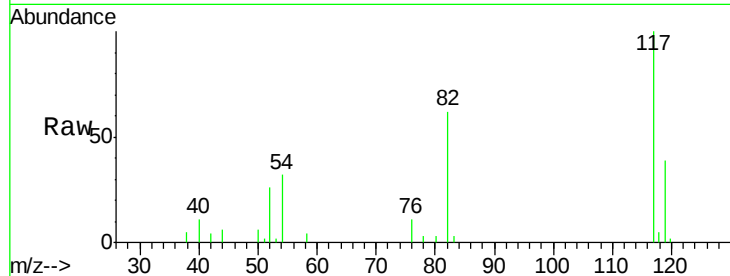
Tot Ion:117 Resp: 27249

Ion Ratio Lower Upper

117 100

82 61.5 46.8 70.2

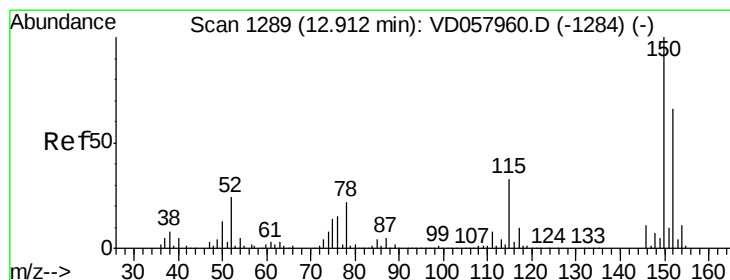
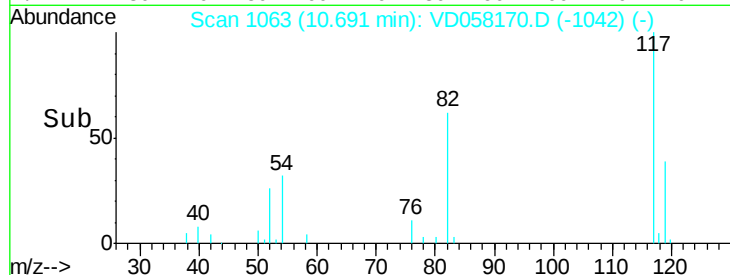
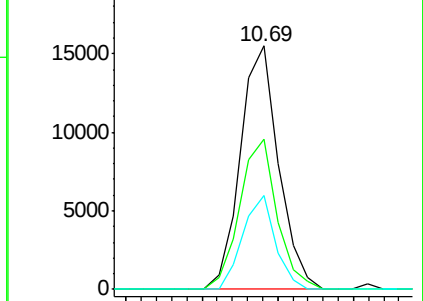
119 38.5 25.8 38.6



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: 12.91 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

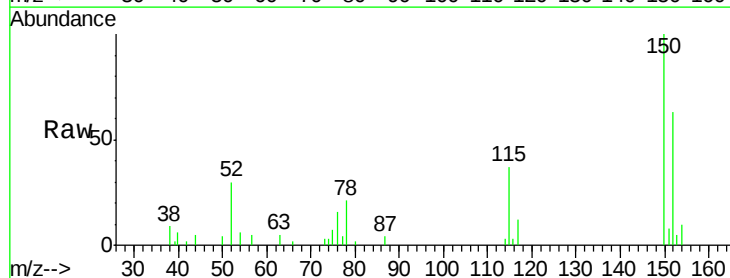
Tgt Ion:152 Resp: 11479

Ion Ratio Lower Upper

152 100

115 58.3 25.6 76.6

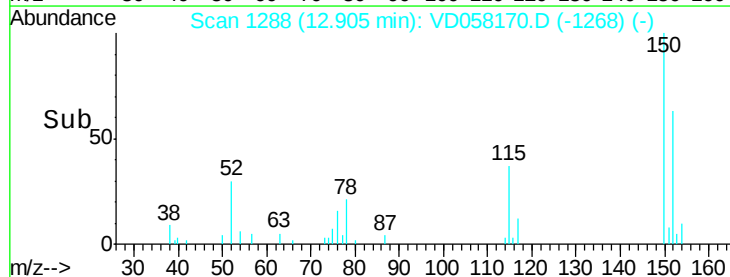
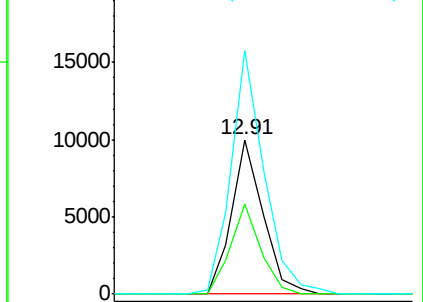
150 157.9 0.0 306.8

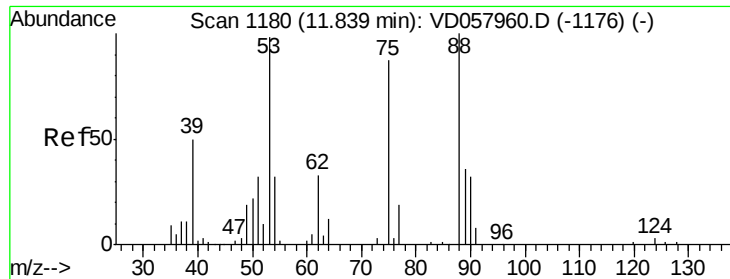


Abundance Ion 151.90 (151.60 to 152.60): V

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: 4.449 ug/l

RT: 11.86 min Scan# 1182

Delta R.T. 0.02 min

Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

Instrument :

MSVOA_D

ClientSampleId :

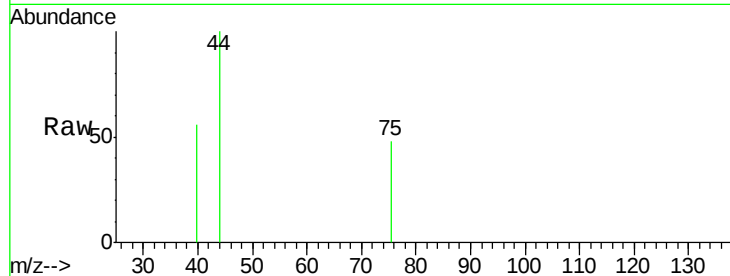
Tot Ion: 75 Resp: 190

Ion Ratio Lower Upper

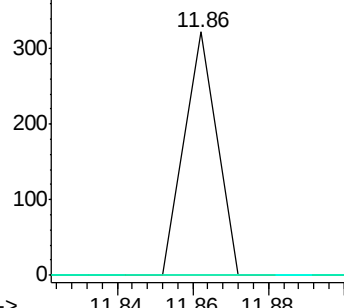
75 100

53 0.0 89.3 133.9#

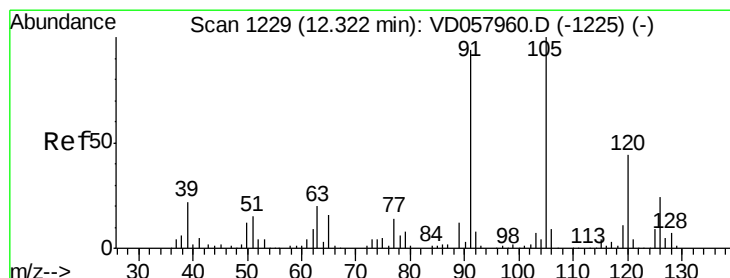
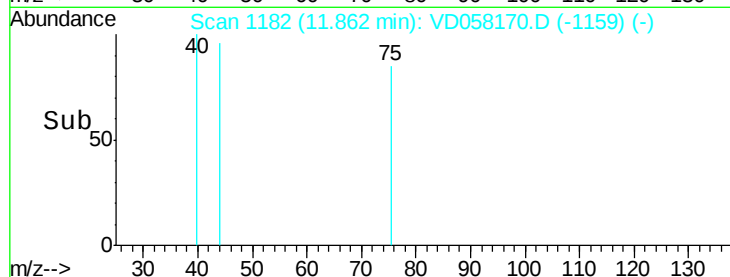
89 0.0 33.3 49.9#



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



Time-->



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058170.D

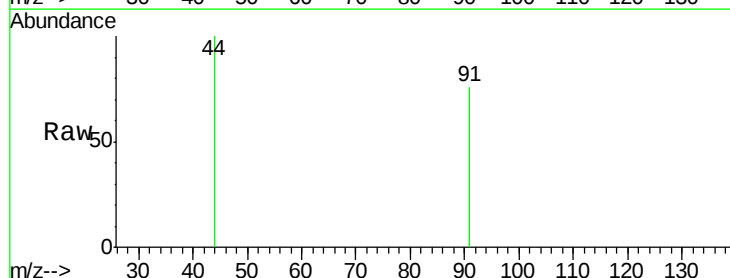
Acq: 15 Jun 2018 23:43

Tgt Ion: 91 Resp: 191

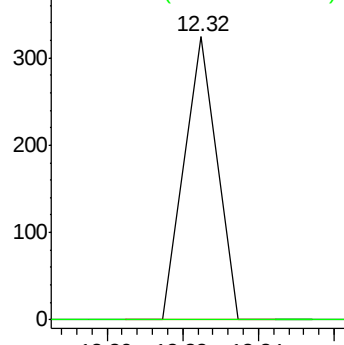
Ion Ratio Lower Upper

91 100

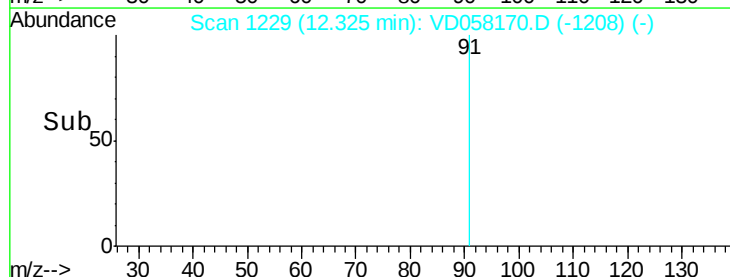
126 0.0 12.5 37.5#

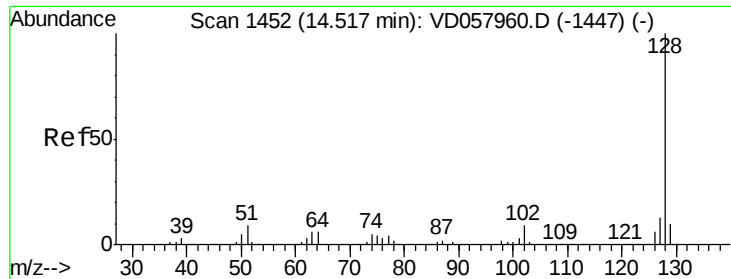


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V



Time-->





#95

Naphthalene

Concen: 27.917 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

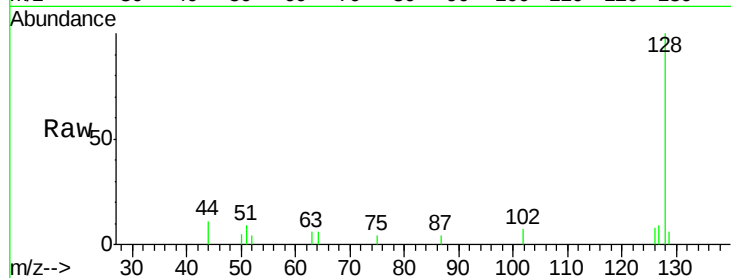
Lab File: VD058170.D

Acq: 15 Jun 2018 23:43

Instrument :

MSVOA_D

ClientSampleId :



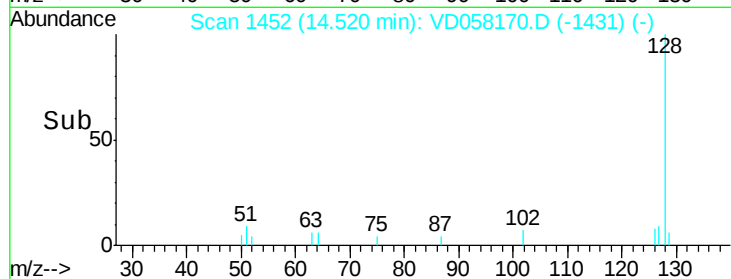
Tot Ion:128 Resp: 10346

Ion Ratio Lower Upper

128 100

127 9.3 10.2 15.2#

129 6.2 8.2 12.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

