

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100918\
 Data File : VD060157.D
 Acq On : 9 Oct 2018 18:07
 Operator : VA/AP
 Sample : J5326-01
 Misc : 6.53q/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FL-PIT-1

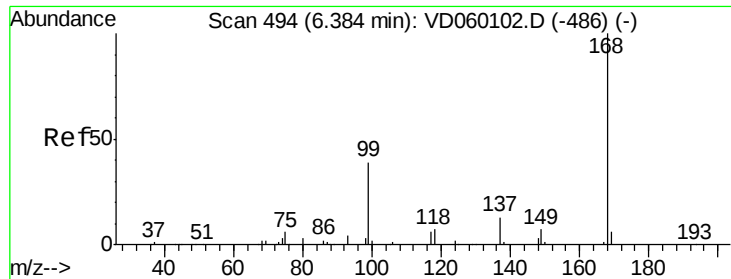
Quant Time: Oct 10 01:16:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.37	168	20068	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.42	114	32579	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.26	117	30962	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	16539	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.75	65	18598	122.26	ug/l	-0.01
Spiked Amount			Recovery	=	244.52%	
35) Dibromofluoromethane	6.29	113	16724	67.60	ug/l	0.00
Spiked Amount			Recovery	=	135.20%	
50) Toluene-d8	9.43	98	45887	65.05	ug/l	0.00
Spiked Amount			Recovery	=	130.10%	
62) 4-Bromofluorobenzene	12.42	95	18973	71.83	ug/l	0.00
Spiked Amount			Recovery	=	143.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.74	50	1466	8.612	ug/l #	43
5) Bromomethane	2.15	94	2736	156.418	ug/l	93
10) Methyl Iodide	3.22	142	1200	10.890	ug/l #	34
13) Acrolein	2.89	56	189	28.103	ug/l #	14
14) Allyl chloride	3.49	41	241	1.417	ug/l #	40
16) Acetone	3.13	43	5870	212.662	ug/l	96
18) Methyl Acetate	3.53	43	1000	16.856	ug/l #	63
20) Methylene Chloride	3.68	84	1452	2.607	ug/l #	70
25) 2-Butanone	5.60	43	984	14.270	ug/l #	59
36) 1,1-Dichloropropene	6.36	75	1358	4.362	ug/l #	40
37) Ethyl Acetate	5.60	43	984	4.762	ug/l #	71
38) Carbon Tetrachloride	6.37	117	939	3.323	ug/l #	11
51) 4-Methyl-2-Pentanone	9.37	43	338	1.971	ug/l #	41
59) 2-Hexanone	10.46	43	381	3.090	ug/l #	30
81) trans-1,4-Dichloro-2-buten	12.42	75	8236	123.061	ug/l #	13
95) Naphthalene	14.95	128	713	1.220	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.01 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleId :

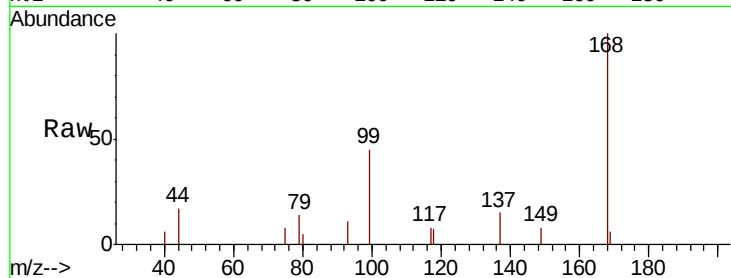
FL-PIT-1

Tot Ion:168 Resp: 20068

Ion Ratio Lower Upper

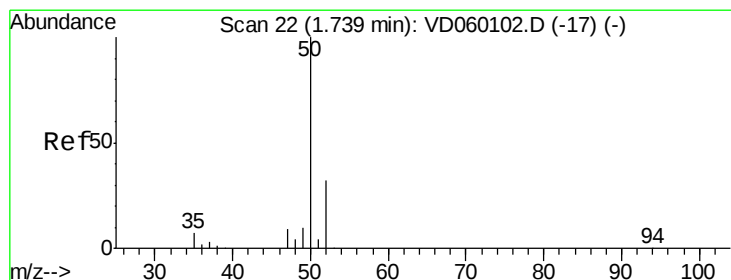
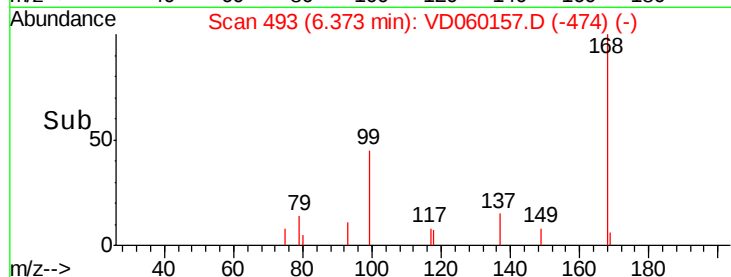
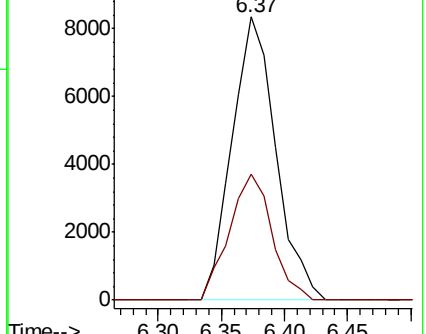
168 100

99 44.6 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 8.612 ug/l

RT: 1.74 min Scan# 22

Delta R.T. -0.00 min

Lab File: VD060157.D

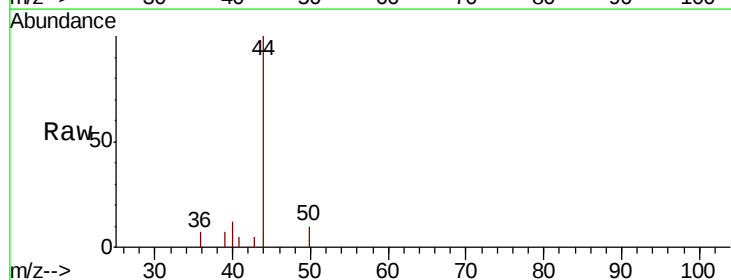
Acq: 9 Oct 2018 18:07

Tgt Ion: 50 Resp: 1466

Ion Ratio Lower Upper

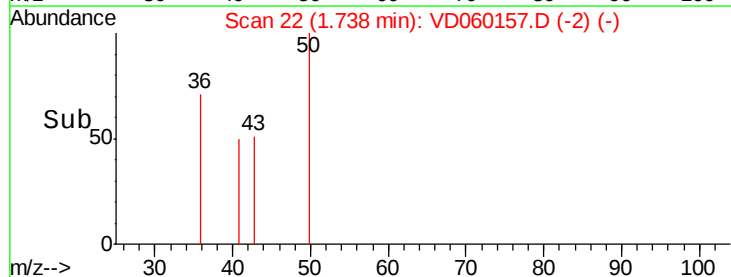
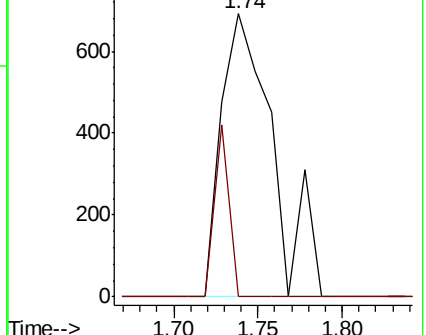
50 100

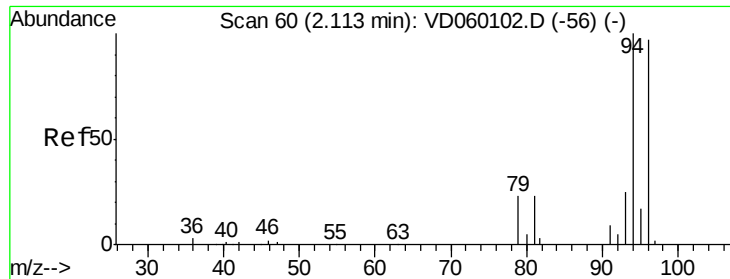
52 0.0 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 156.418 ug/l

RT: 2.15 min Scan# 64

Delta R.T. 0.04 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampled :

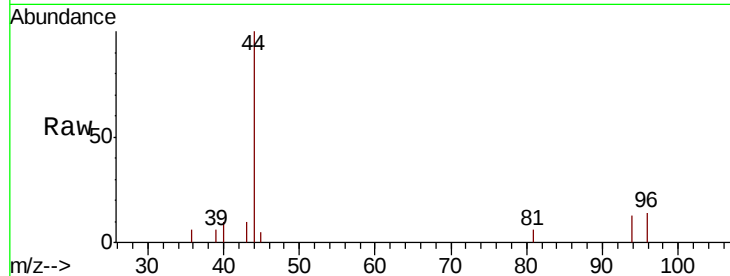
FL-PIT-1

Tot Ion: 94 Resp: 2736

Ion Ratio Lower Upper

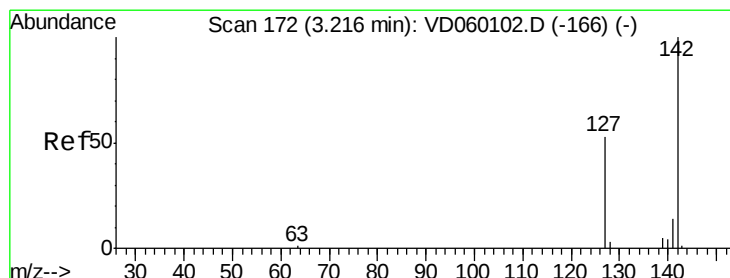
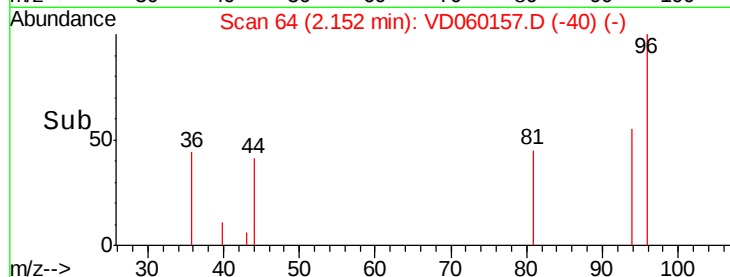
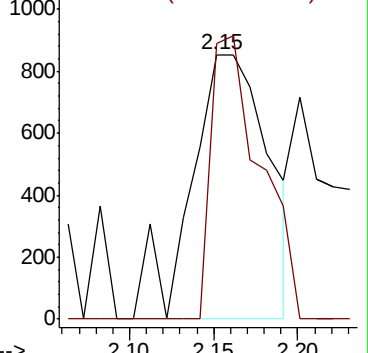
94 100

96 104.0 77.4 116.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 10.890 ug/l

RT: 3.22 min Scan# 173

Delta R.T. 0.01 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

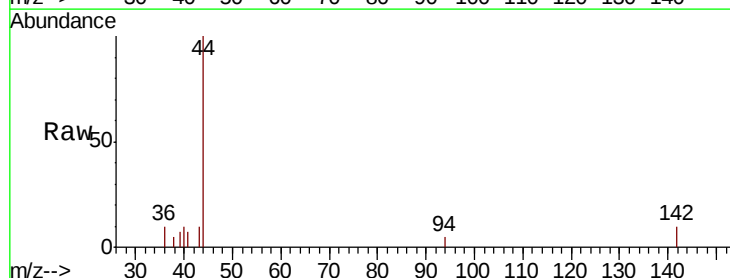
Tgt Ion: 142 Resp: 1200

Ion Ratio Lower Upper

142 100

127 0.0 42.0 63.0#

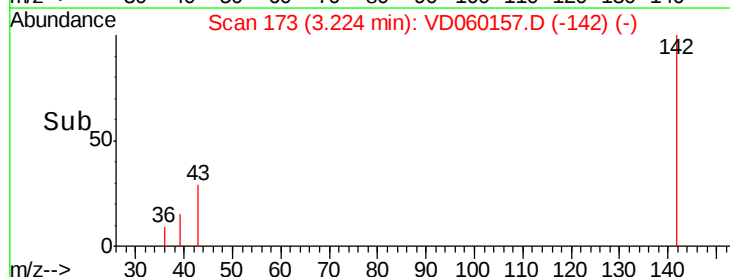
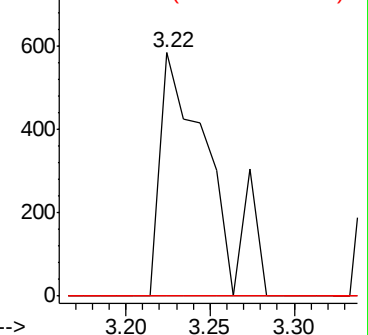
141 0.0 11.4 17.0#

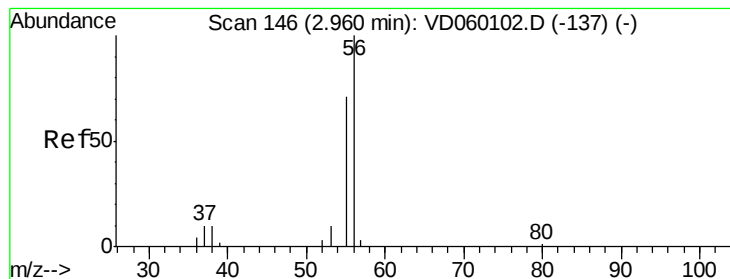


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#13

Acrolein

Concen: 28.103 ug/l

RT: 2.89 min Scan# 139

Delta R.T. -0.07 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleId :

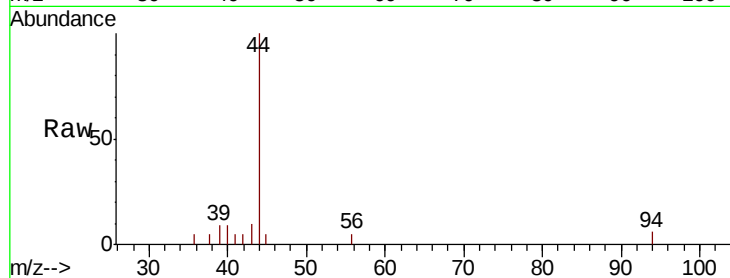
FL-PIT-1

Tot Ion: 56 Resp: 189

Ion Ratio Lower Upper

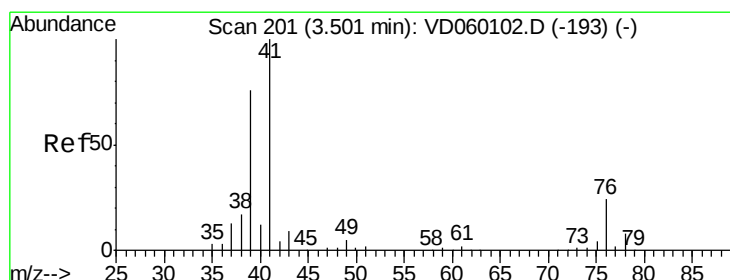
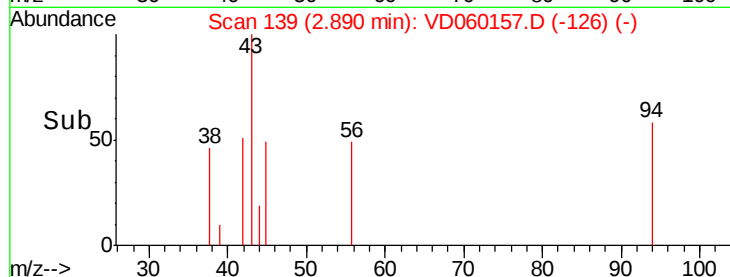
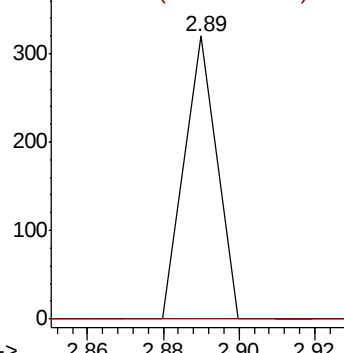
56 100

55 0.0 57.4 86.2#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 1.417 ug/l

RT: 3.49 min Scan# 200

Delta R.T. -0.01 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

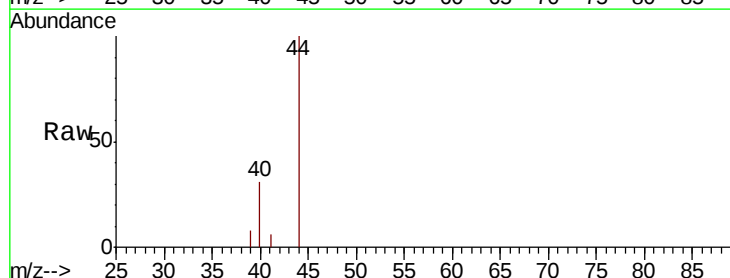
Tgt Ion: 41 Resp: 241

Ion Ratio Lower Upper

41 100

39 129.6 60.6 90.8#

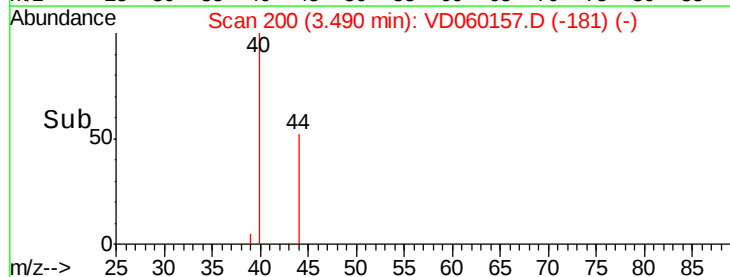
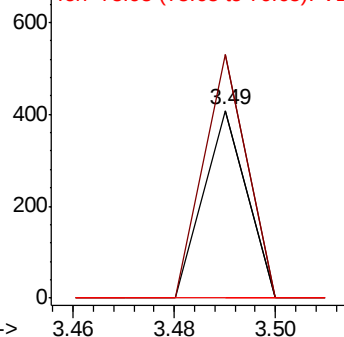
76 0.0 21.3 31.9#

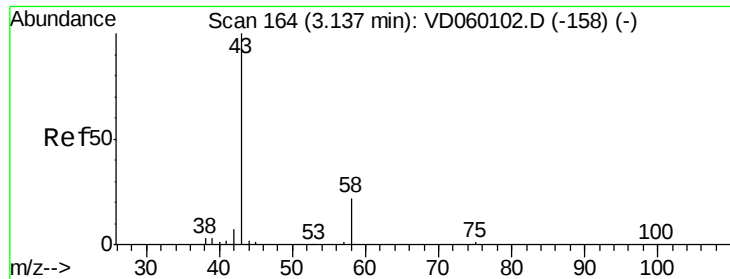


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#16

Acetone

Concen: 212.662 ug/l

RT: 3.13 min Scan# 163

Delta R.T. -0.01 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleId :

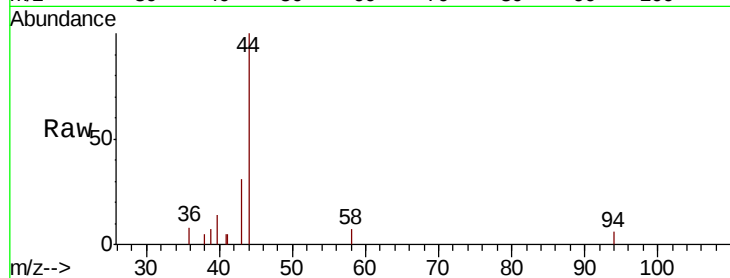
FL-PIT-1

Tot Ion: 43 Resp: 5870

Ion Ratio Lower Upper

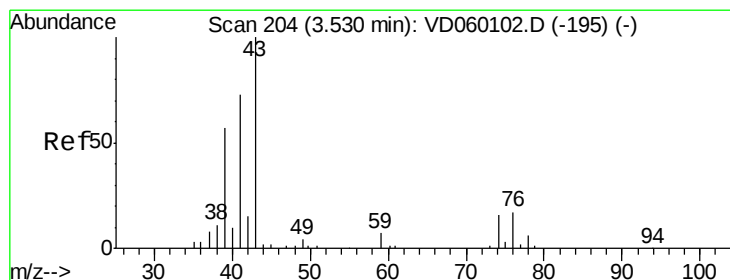
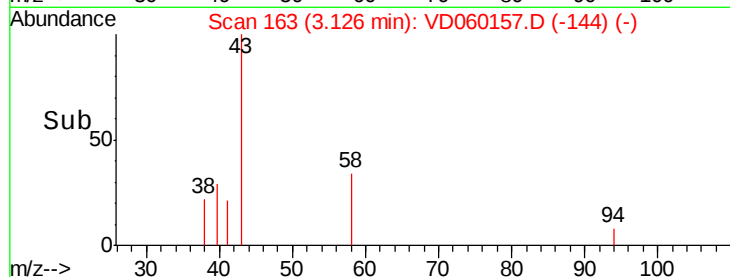
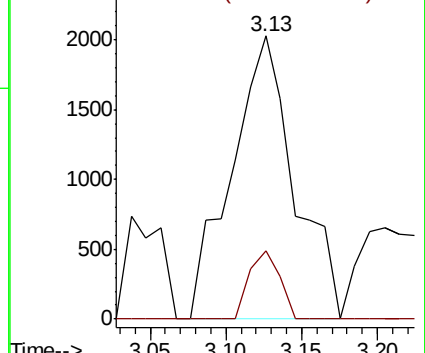
43 100

58 23.9 17.7 26.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 16.856 ug/l

RT: 3.53 min Scan# 204

Delta R.T. -0.00 min

Lab File: VD060157.D

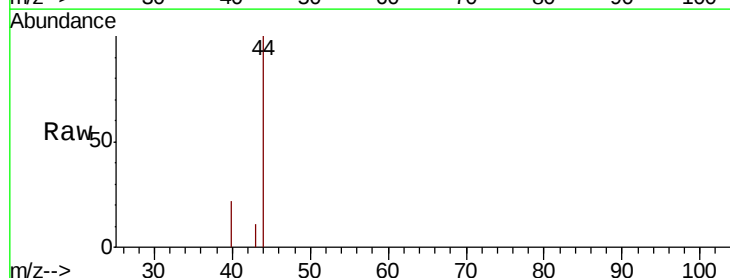
Acq: 9 Oct 2018 18:07

Tgt Ion: 43 Resp: 1000

Ion Ratio Lower Upper

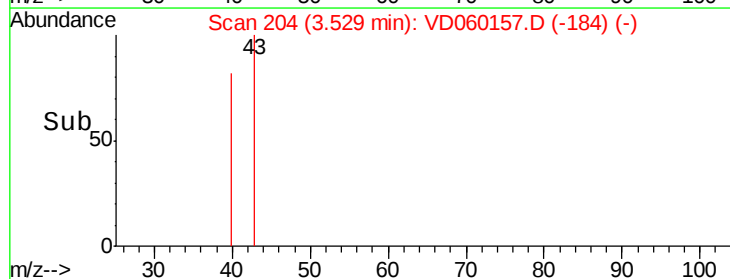
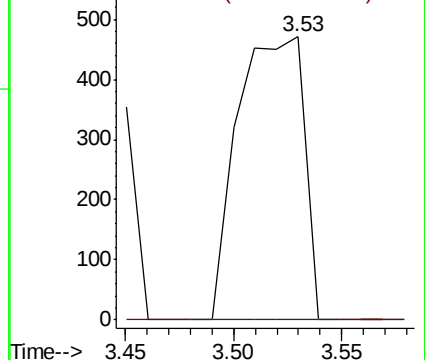
43 100

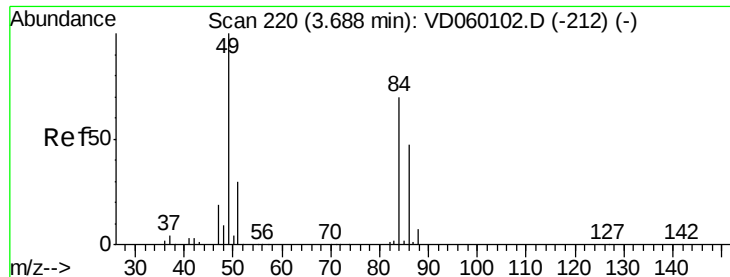
74 0.0 12.6 19.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methvlene Chloride

Concen: 2.607 ug/l

RT: 3.68 min Scan# 219

Delta R.T. -0.01 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleId :

FL-PIT-1

Tot Ion: 84 Resp: 1452

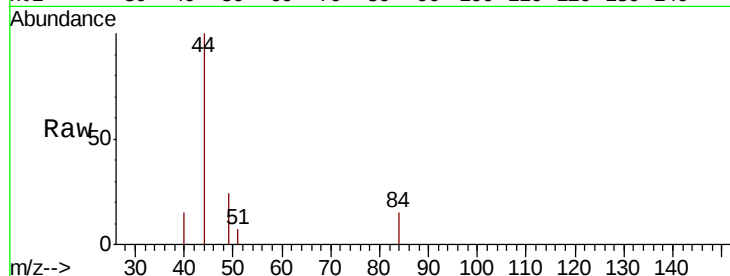
Ion Ratio Lower Upper

84 100

49 158.5 114.6 172.0

51 46.9 33.8 50.8

86 0.0 53.3 79.9#

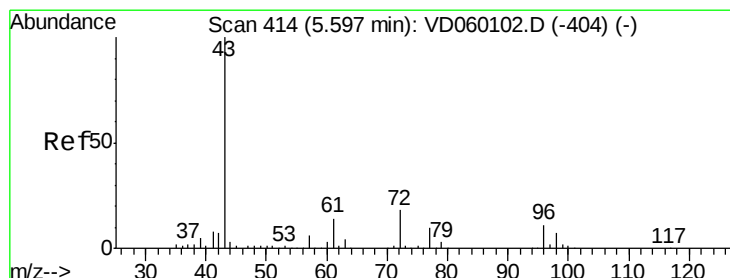
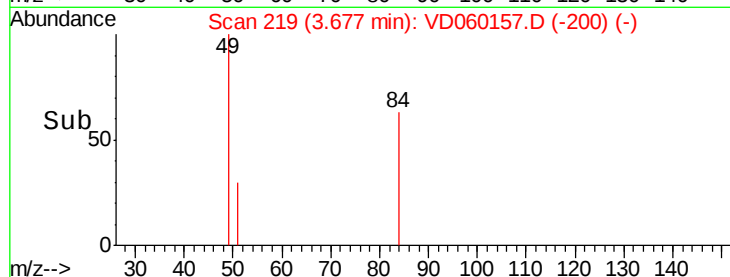
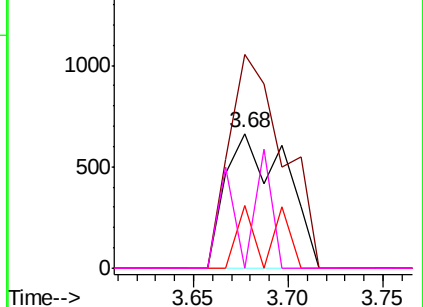


Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 14.270 ug/l

RT: 5.60 min Scan# 414

Delta R.T. -0.00 min

Lab File: VD060157.D

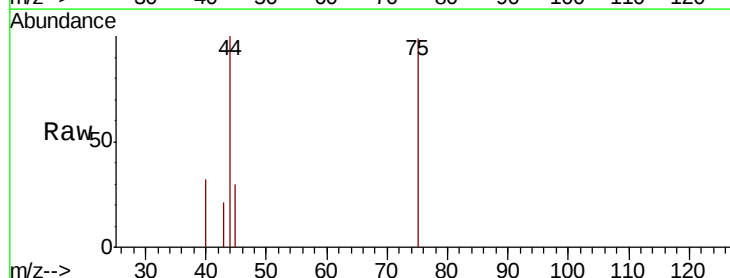
Acq: 9 Oct 2018 18:07

Tgt Ion: 43 Resp: 984

Ion Ratio Lower Upper

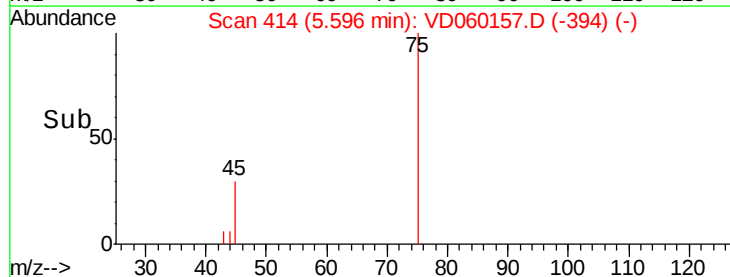
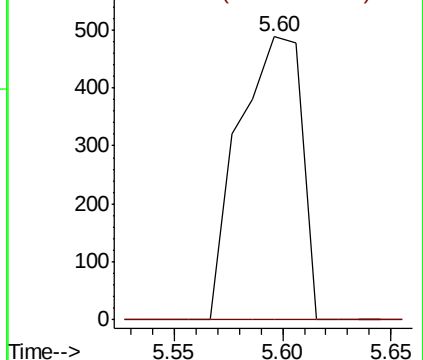
43 100

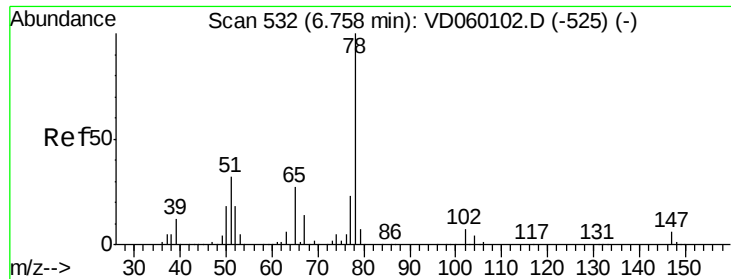
72 0.0 14.5 21.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.75 min Scan# 531

Delta R.T. -0.01 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleId :

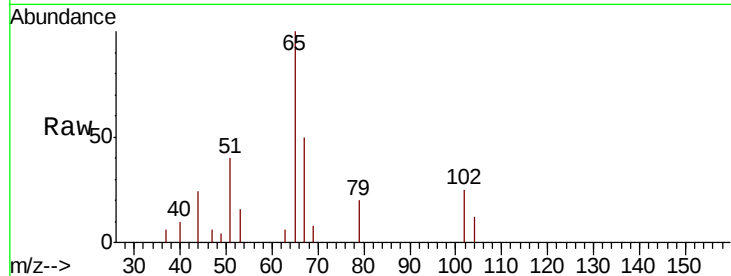
FL-PIT-1

Tot Ion: 65 Resp: 18598

Ion Ratio Lower Upper

65 100

67 49.9 0.0 106.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.75

8000

6000

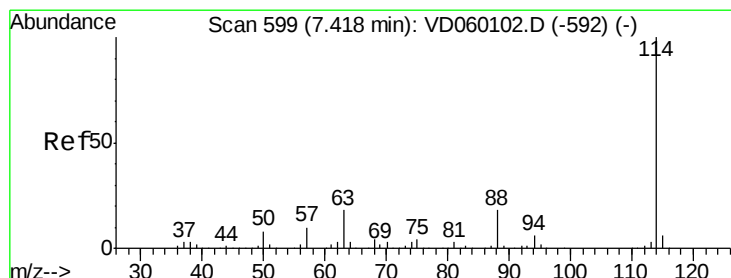
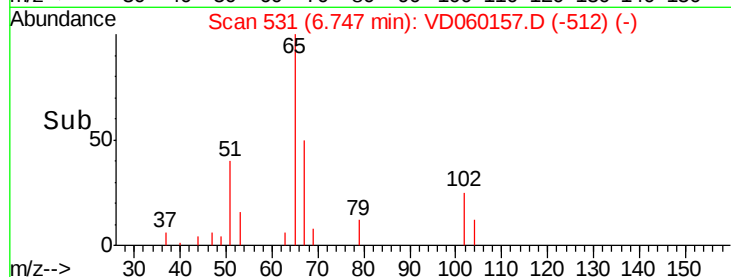
4000

2000

0

6.70 6.80 6.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.42 min Scan# 599

Delta R.T. -0.00 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

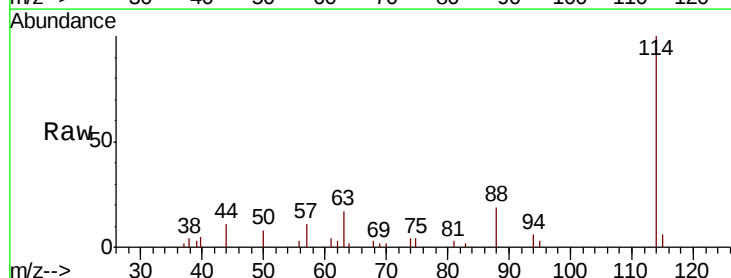
Tgt Ion: 114 Resp: 32579

Ion Ratio Lower Upper

114 100

63 17.0 0.0 36.0

88 19.3 0.0 36.2



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

15000

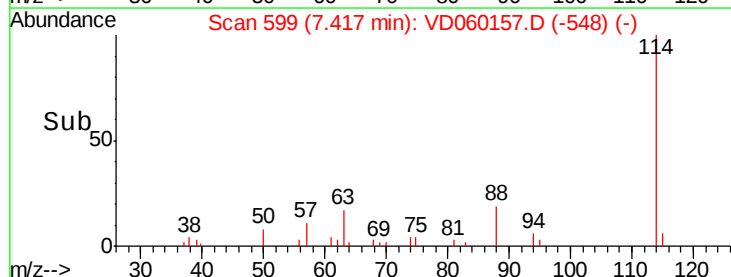
10000

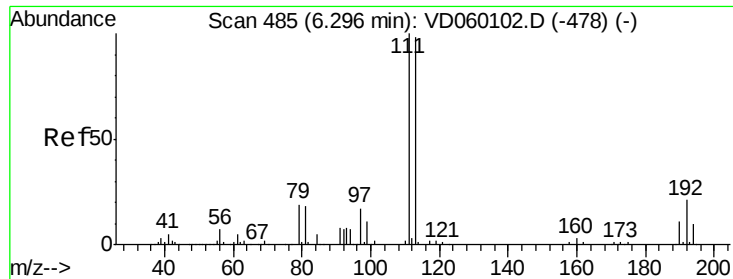
5000

0

7.30 7.40 7.50

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.29 min Scan# 485

Delta R.T. -0.00 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleId :

FL-PIT-1

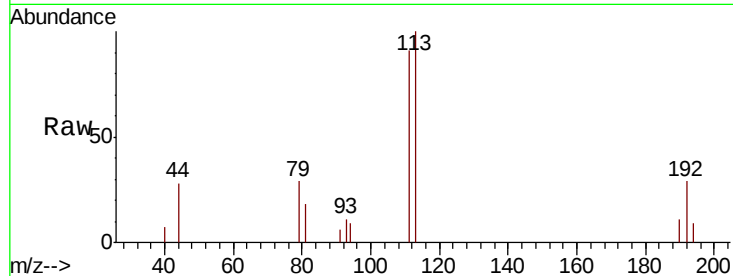
Tot Ion:113 Resp: 16724

Ion Ratio Lower Upper

113 100

111 91.3 81.5 122.3

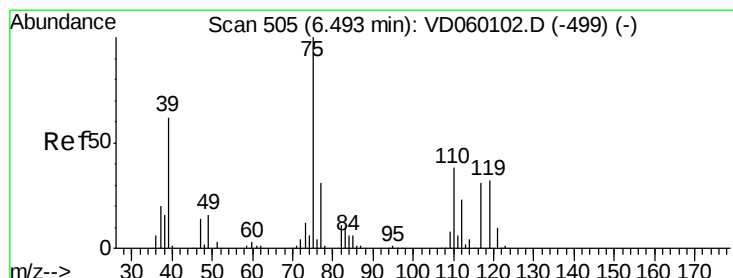
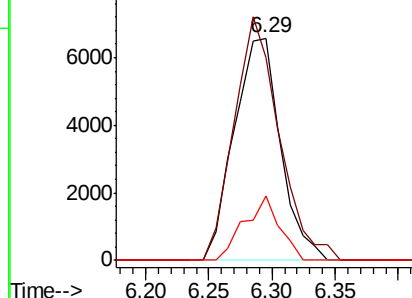
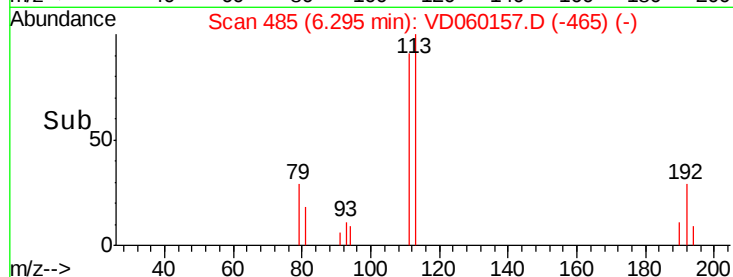
192 29.3 17.4 26.0#



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: 4.362 ug/l

RT: 6.36 min Scan# 492

Delta R.T. -0.13 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

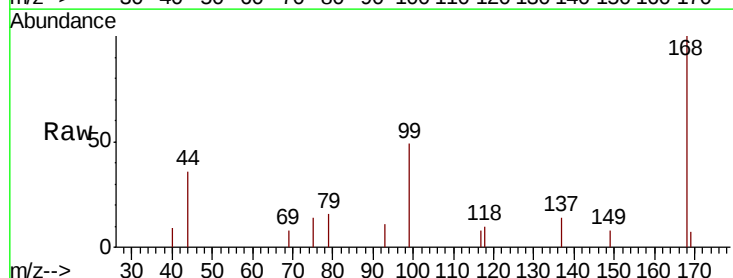
Tgt Ion: 75 Resp: 1358

Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

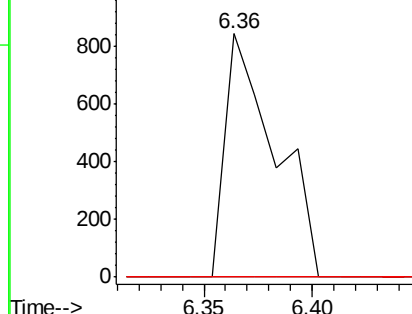
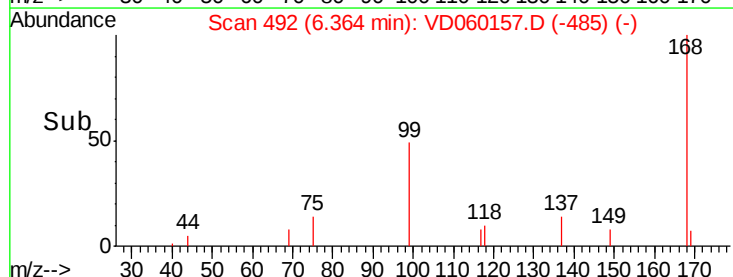
77 0.0 24.9 37.3#

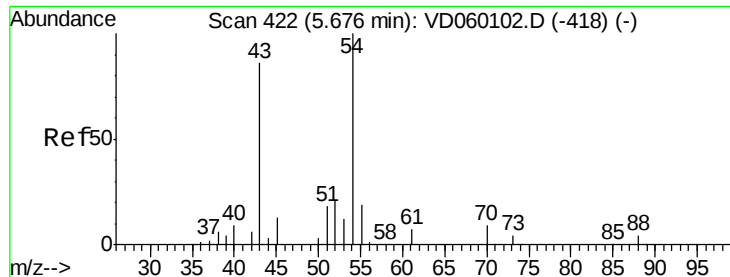


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 4.762 ug/l

RT: 5.60 min Scan# 414

Delta R.T. -0.08 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleID :

FL-PIT-1

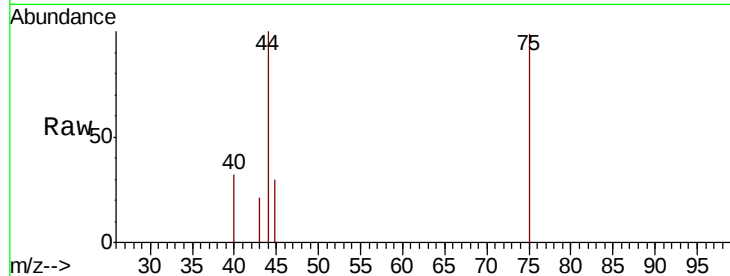
Tot Ion: 43 Resp: 984

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

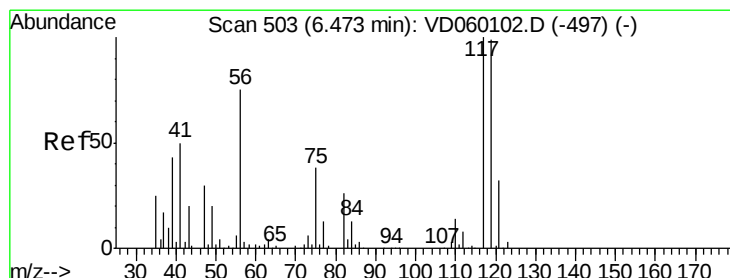
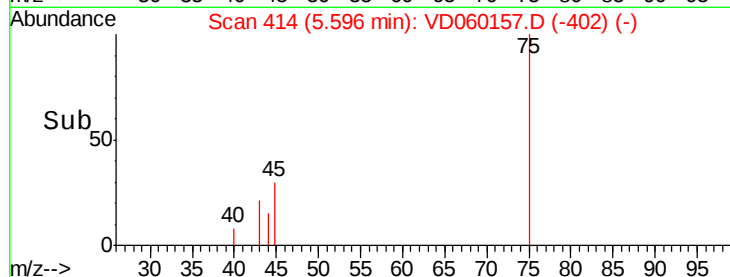
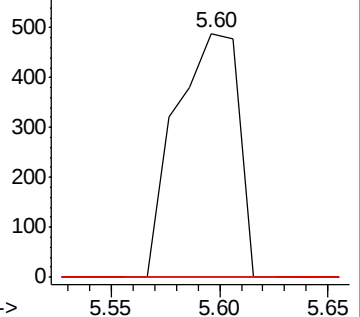
70 0.0 6.3 9.5#



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



#38

Carbon Tetrachloride

Concen: 3.323 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.10 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

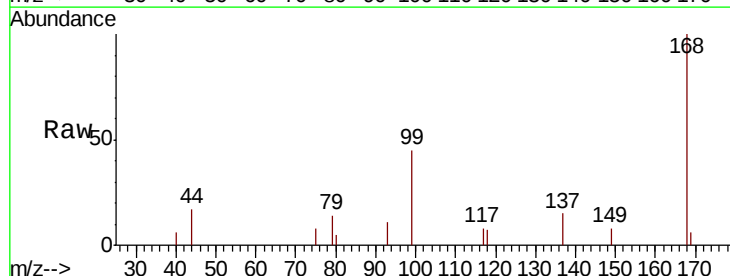
Tgt Ion: 117 Resp: 939

Ion Ratio Lower Upper

117 100

119 0.0 77.8 116.6#

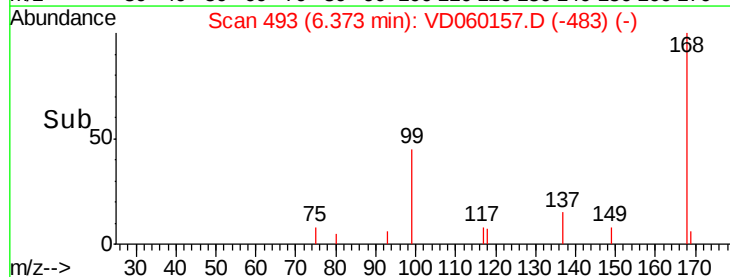
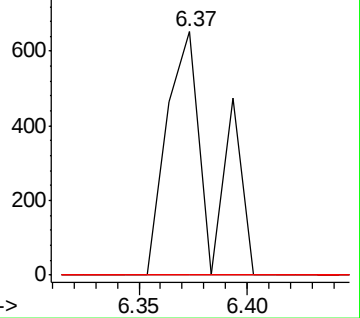
121 0.0 24.8 37.2#

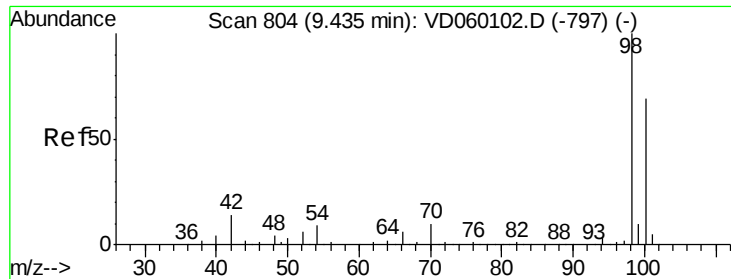


Abundance Ion 116.85 (116.55 to 117.55): V

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: 9.43 min Scan# 804

Delta R.T. -0.00 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleId :

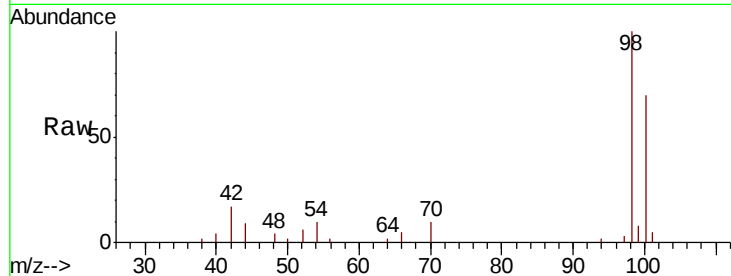
FL-PIT-1

Tot Ion: 98 Resp: 45887

Ion Ratio Lower Upper

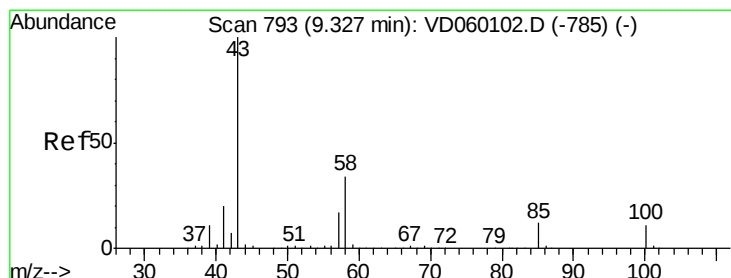
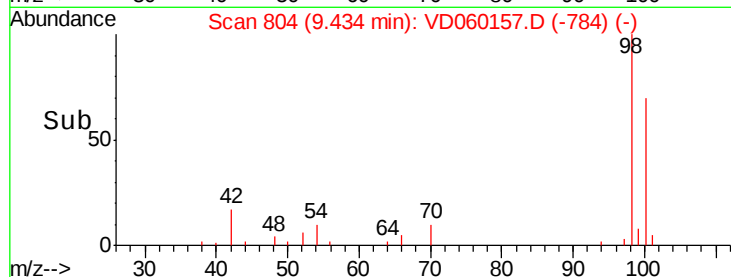
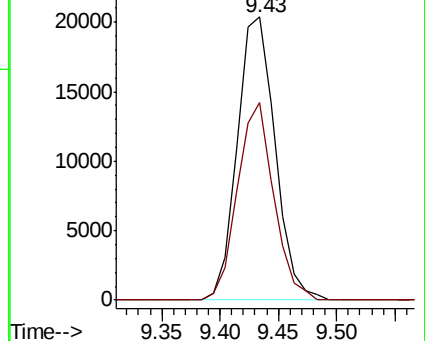
98 100

100 69.8 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VD060102.D (-797) (-)

Ion 100.05 (99.75 to 100.75): VD060102.D (-797) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.971 ug/l

RT: 9.37 min Scan# 798

Delta R.T. 0.05 min

Lab File: VD060157.D

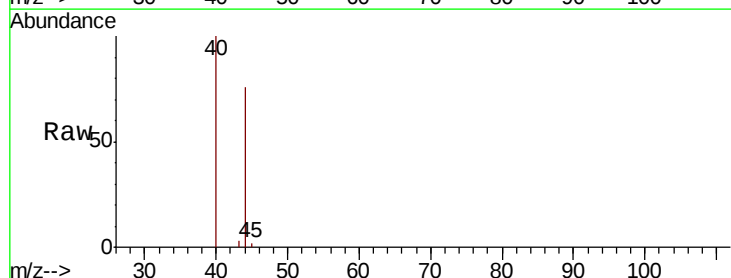
Acq: 9 Oct 2018 18:07

Tgt Ion: 43 Resp: 338

Ion Ratio Lower Upper

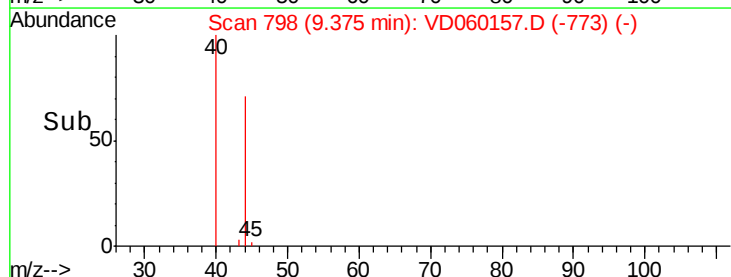
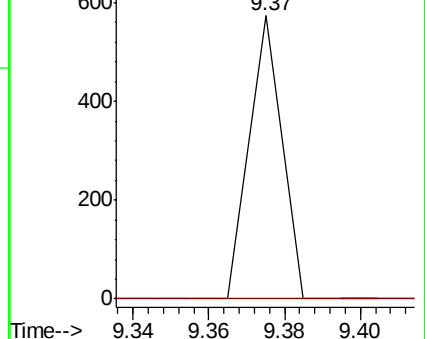
43 100

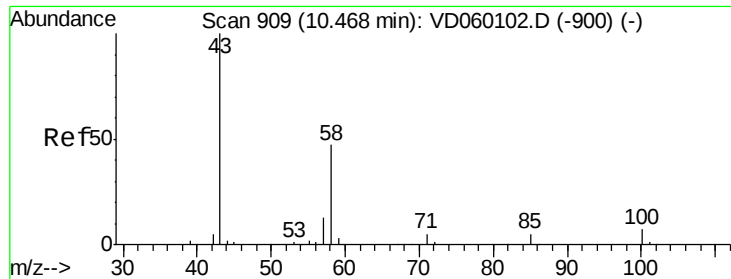
58 0.0 27.2 40.8#



Abundance Ion 42.95 (42.65 to 43.65): VD060102.D (-785) (-)

Ion 57.95 (57.65 to 58.65): VD060102.D (-785) (-)





#59

2-Hexanone

Concen: 3.090 ug/l

RT: 10.46 min Scan# 908

Delta R.T. -0.01 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleId :

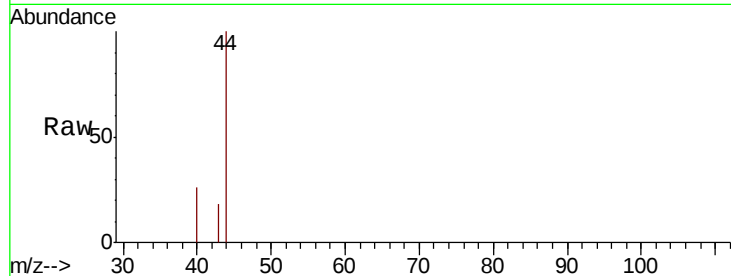
FL-PIT-1

Tot Ion: 43 Resp: 381

Ion Ratio Lower Upper

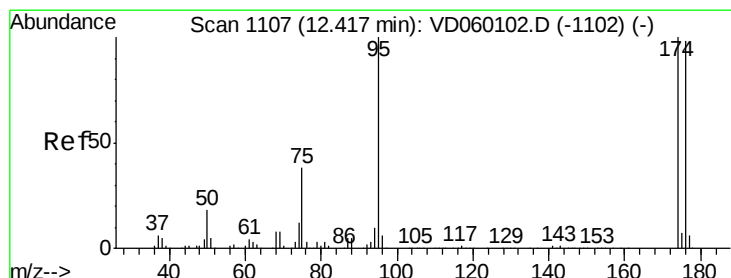
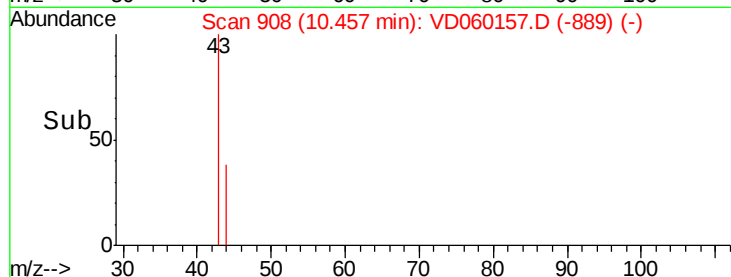
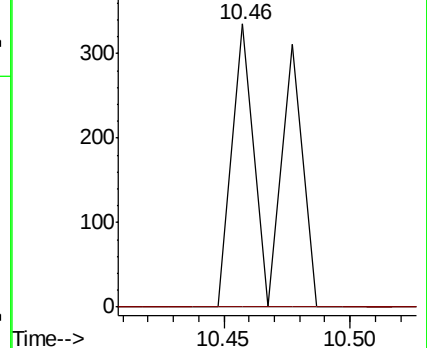
43 100

58 0.0 23.3 69.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

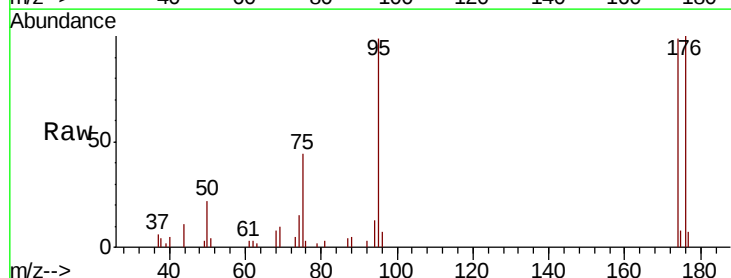
Tgt Ion: 95 Resp: 18973

Ion Ratio Lower Upper

95 100

174 100.2 0.0 200.2

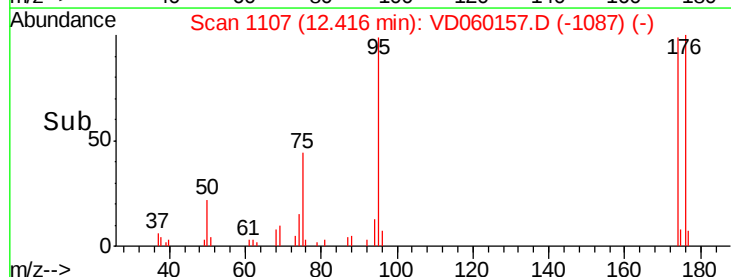
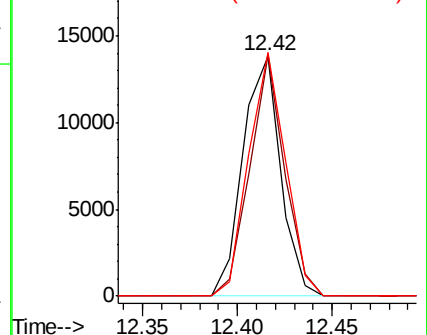
176 101.3 0.0 195.6

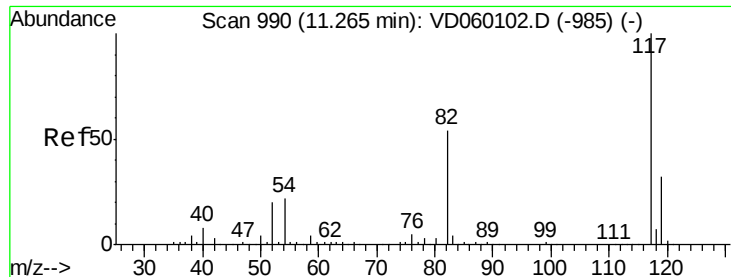


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

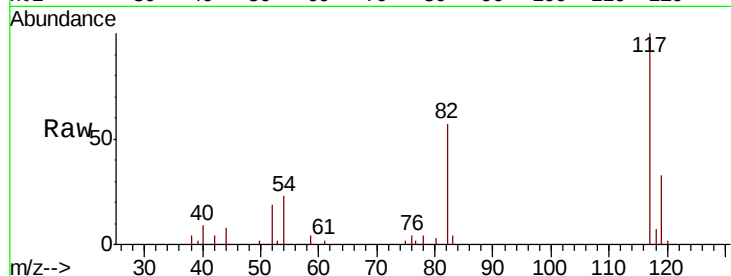




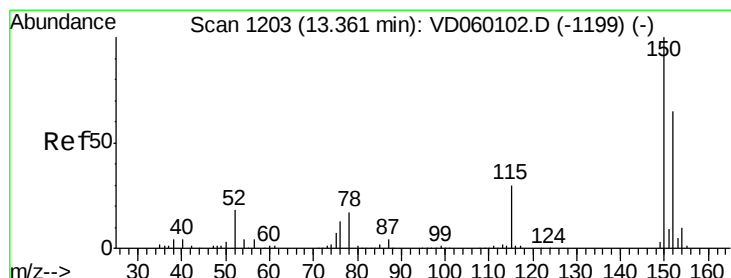
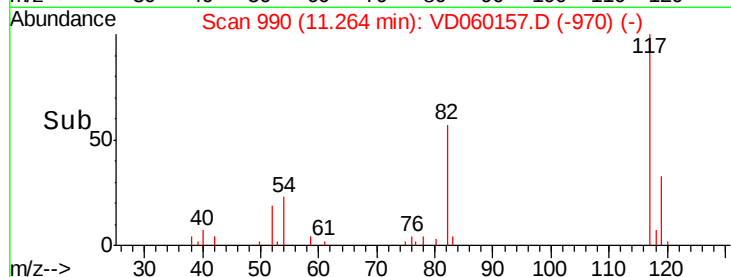
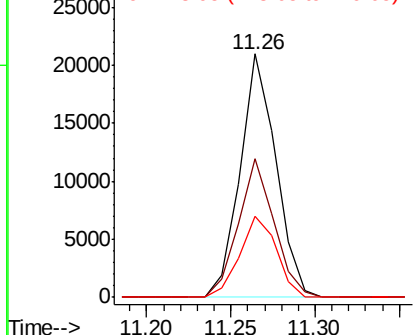
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.26 min Scan# 990
Delta R.T. -0.00 min
Lab File: VD060157.D
Acq: 9 Oct 2018 18:07

Instrument :
MSVOA_D
ClientSampleId :
FL-PIT-1

Tot Ion:117 Resp: 30962
Ion Ratio Lower Upper
117 100
82 57.1 43.4 65.2
119 33.2 26.0 39.0

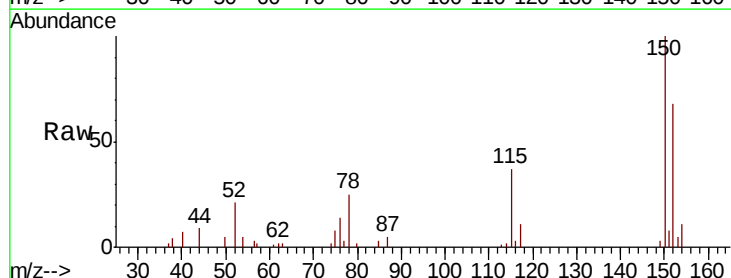


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

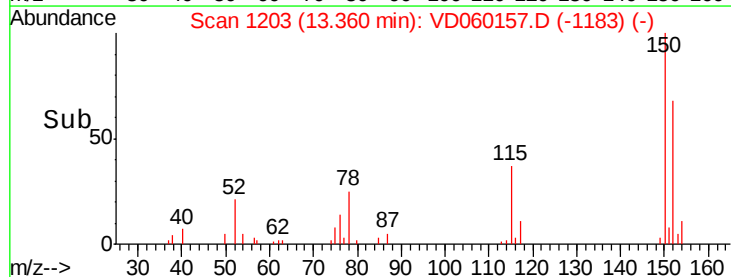
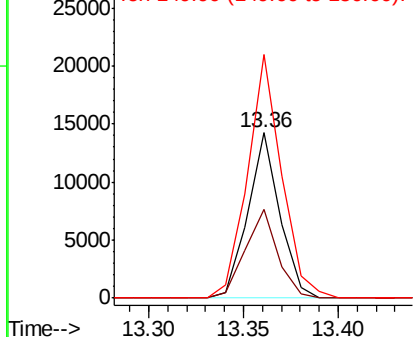


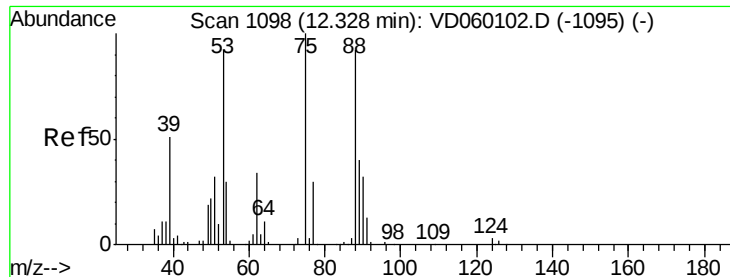
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1203
Delta R.T. -0.00 min
Lab File: VD060157.D
Acq: 9 Oct 2018 18:07

Tgt Ion:152 Resp: 16539
Ion Ratio Lower Upper
152 100
115 54.1 27.1 81.2
150 147.4 0.0 311.8



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: 123.061 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.09 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

Instrument :

MSVOA_D

ClientSampleId :

FL-PIT-1

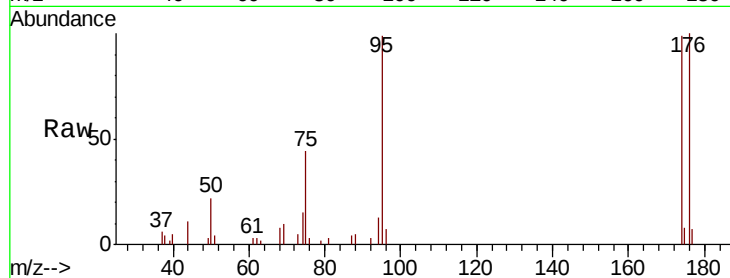
Tot Ion: 75 Resp: 8236

Ion Ratio Lower Upper

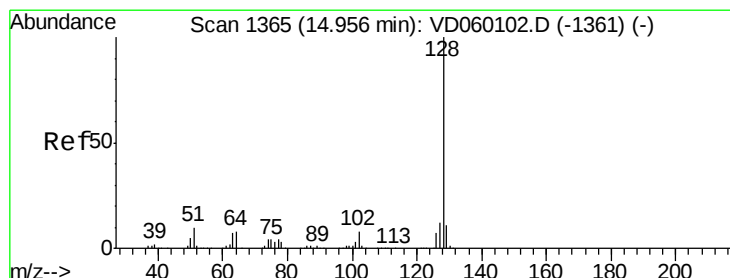
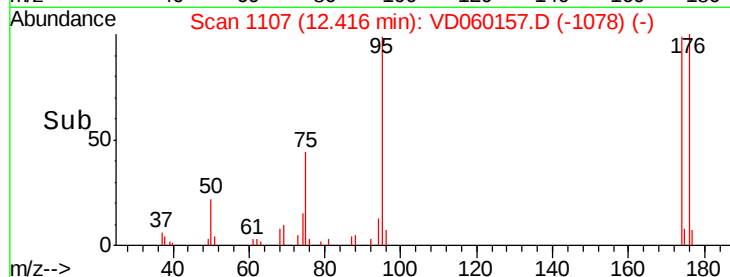
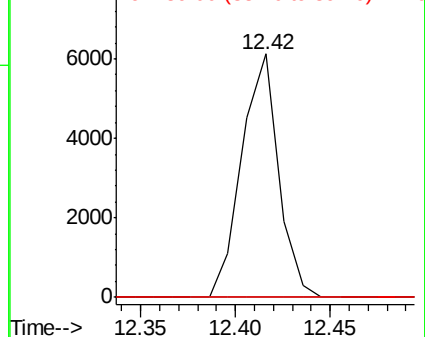
75 100

53 0.0 73.0 109.6#

89 0.0 32.0 48.0#



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



#95

Naphthalene

Concen: 1.220 ug/l

RT: 14.95 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VD060157.D

Acq: 9 Oct 2018 18:07

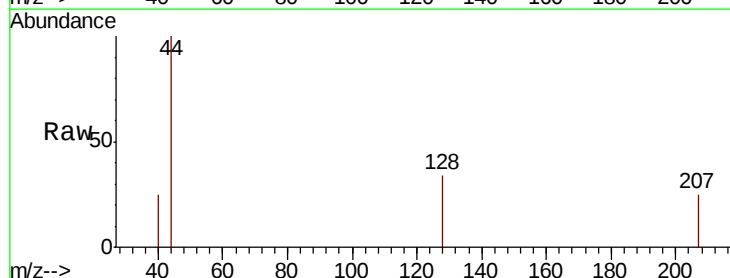
Tgt Ion:128 Resp: 713

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 0.0 8.8 13.2#



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

