

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW062718\
 Data File : VW003592.D
 Acq On : 27 Jun 2018 02:15
 Operator : SY/AP
 Sample : J3614-01
 Misc : 8.47G/5ML/MSVOA_W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ZER-SB-02-1-2

Quant Time: Jun 27 07:57:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W061318S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 05:18:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	86373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	130775	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	82808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	18765	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	58517	62.55	ug/l	0.00
Spiked Amount			Recovery	=	125.10%	
35) Dibromofluoromethane	7.88	113	48781	60.03	ug/l	0.00
Spiked Amount			Recovery	=	120.06%	
50) Toluene-d8	10.33	98	142011	44.07	ug/l	0.00
Spiked Amount			Recovery	=	88.14%	
62) 4-Bromofluorobenzene	12.62	95	24872	21.81	ug/l	0.00
Spiked Amount			Recovery	=	43.62%	

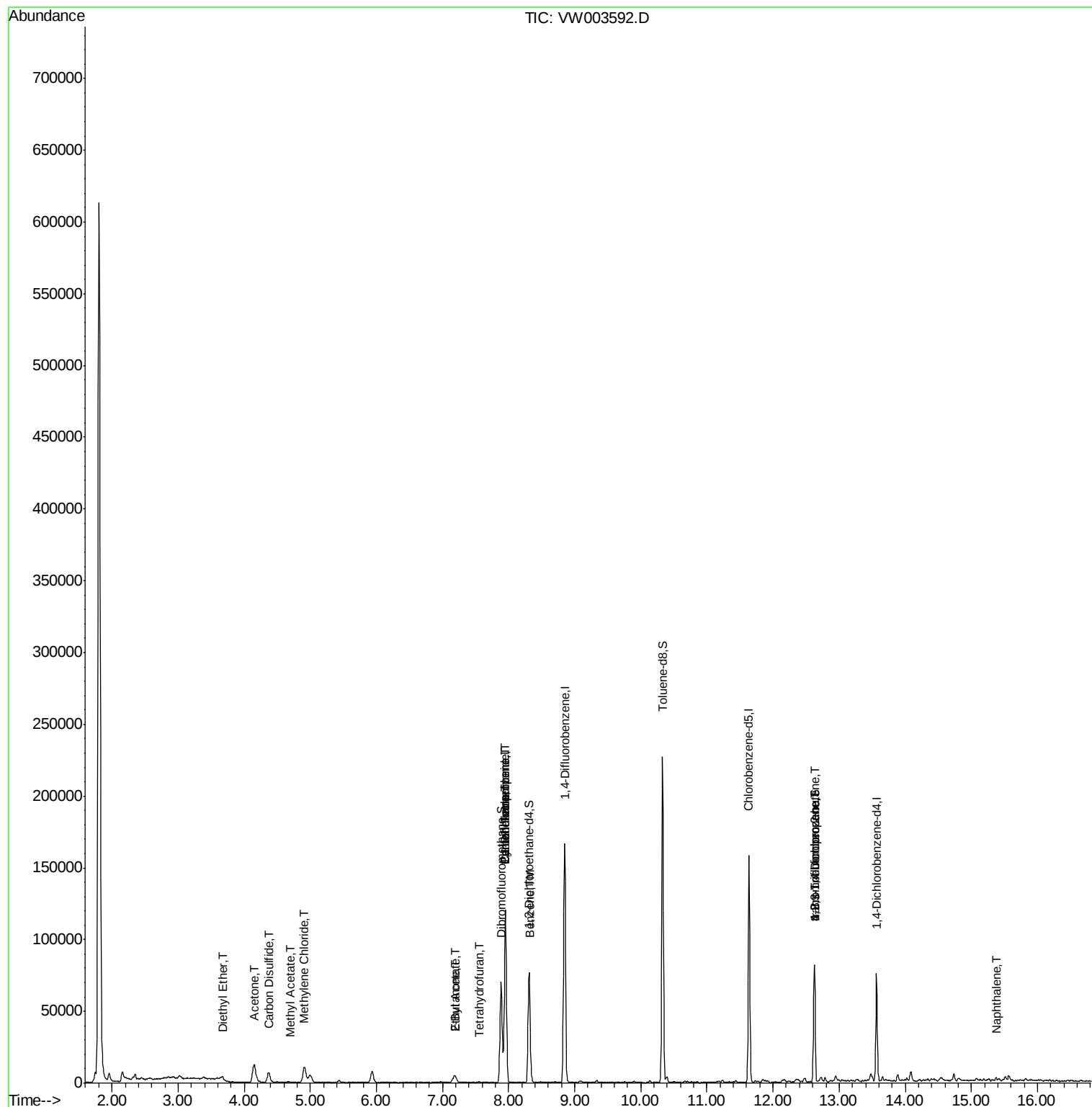
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	530	1.252	ug/l #	1
16) Acetone	4.15	43	27978	142.590	ug/l	98
17) Carbon Disulfide	4.37	76	15064	6.517	ug/l	100
18) Methyl Acetate	4.69	43	675	1.450	ug/l #	65
20) Methylene Chloride	4.90	84	8159	6.603	ug/l	95
25) 2-Butanone	7.20	43	6504	26.657	ug/l	90
29) Tetrahydrofuran	7.55	42	352	2.361	ug/l #	59
31) Cyclohexane	7.95	56	2470	1.634	ug/l #	29
36) 1,1-Dichloropropene	7.95	75	7545	5.974	ug/l #	50
37) Ethyl Acetate	7.20	43	6504	12.431	ug/l #	69
38) Carbon Tetrachloride	7.95	117	8907	7.190	ug/l #	16
40) Benzene	8.32	78	7759	2.229	ug/l	100
76) 1,2,3-Trichloropropane	12.63	75	13238	82.521	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	13238	189.886	ug/l #	9
95) Naphthalene	15.37	128	1620	2.487	ug/l #	95

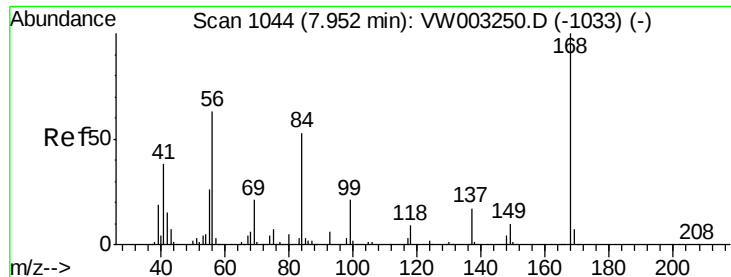
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

Instrument :

MSVOA_W

ClientSampleId :

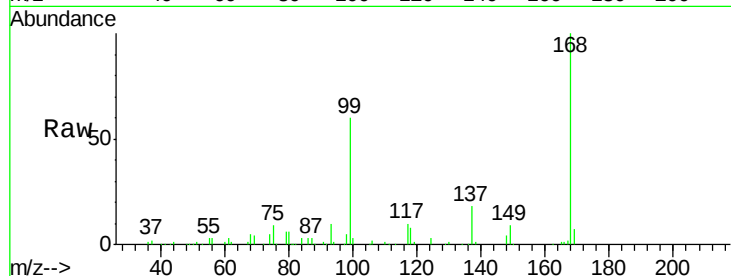
ZER-SB-02-1-2

Tgt Ion:168 Resp: 86373

Ion Ratio Lower Upper

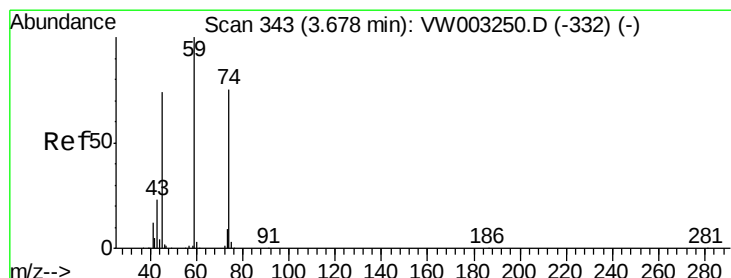
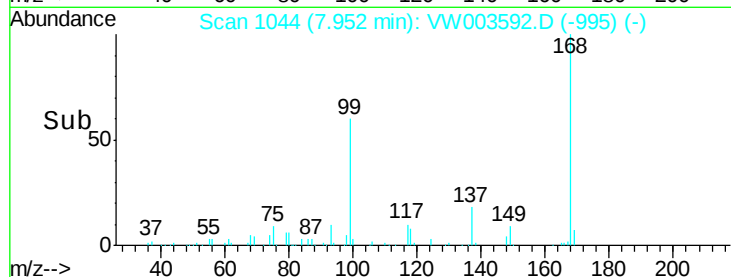
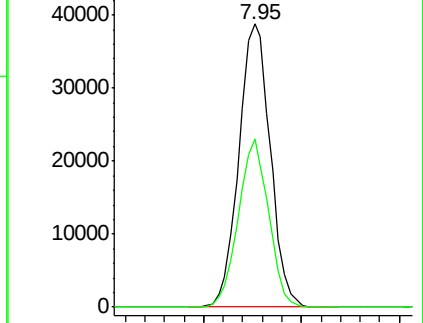
168 100

99 59.5 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.252 ug/l

RT: 3.68 min Scan# 343

Delta R.T. 0.00 min

Lab File: VW003592.D

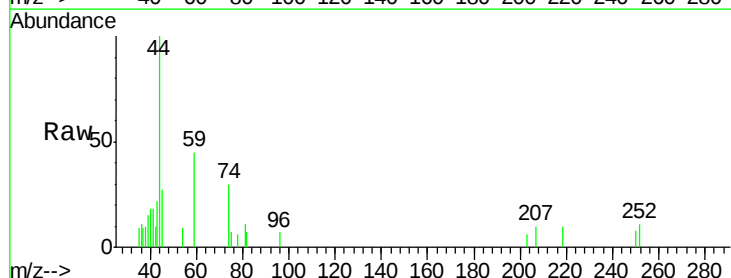
Acq: 27 Jun 2018 02:15

Tgt Ion: 74 Resp: 530

Ion Ratio Lower Upper

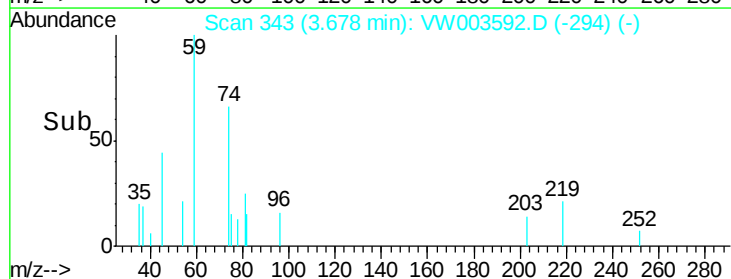
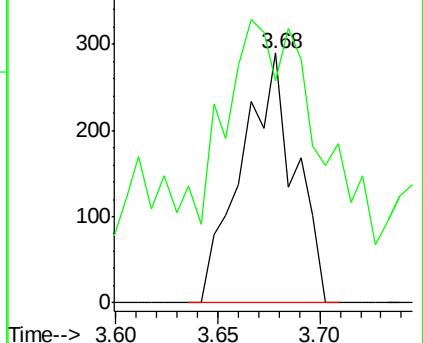
74 100

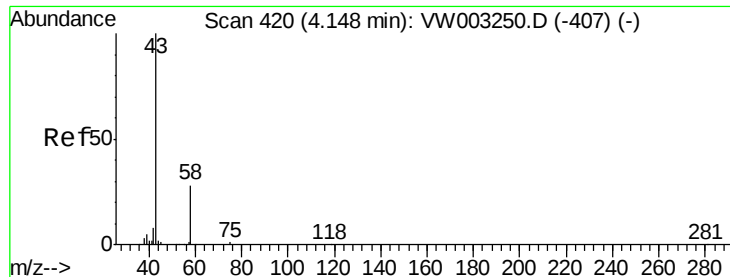
45 210.8 51.4 154.2#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#16

Acetone

Concen: 142.590 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.00 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

Instrument :

MSVOA_W

ClientSampleId :

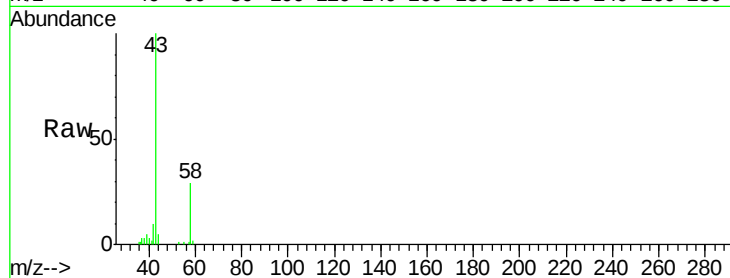
ZER-SB-02-1-2

Tgt Ion: 43 Resp: 27978

Ion Ratio Lower Upper

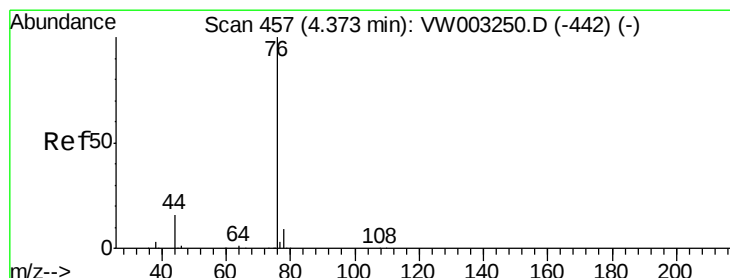
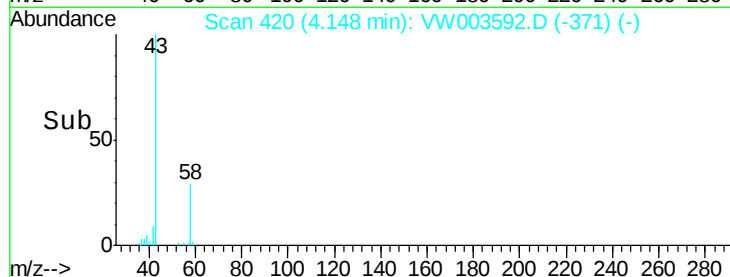
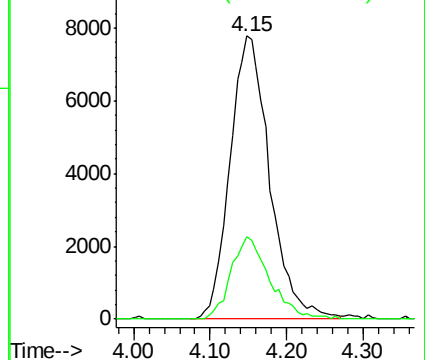
43 100

58 29.2 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 6.517 ug/l

RT: 4.37 min Scan# 457

Delta R.T. 0.00 min

Lab File: VW003592.D

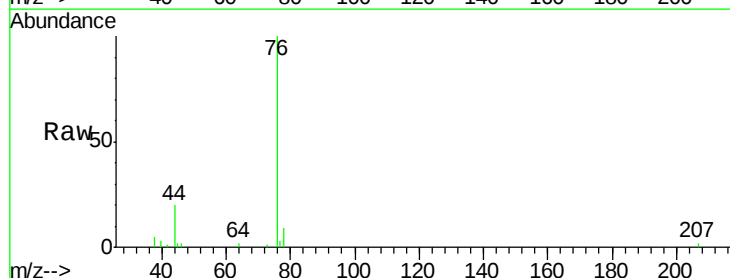
Acq: 27 Jun 2018 02:15

Tgt Ion: 76 Resp: 15064

Ion Ratio Lower Upper

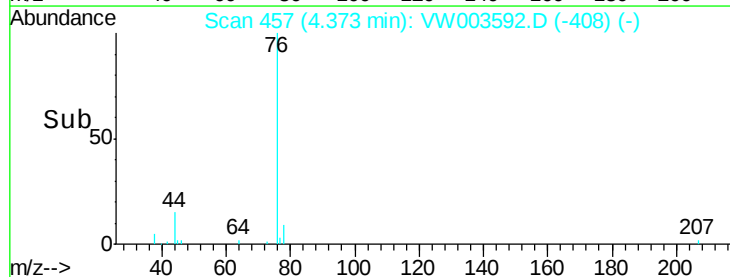
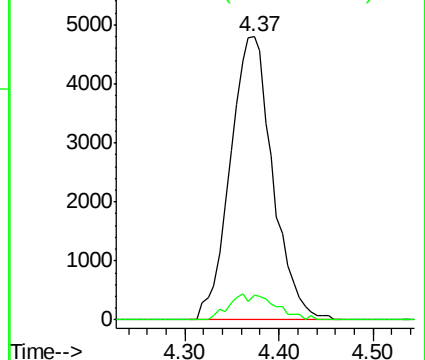
76 100

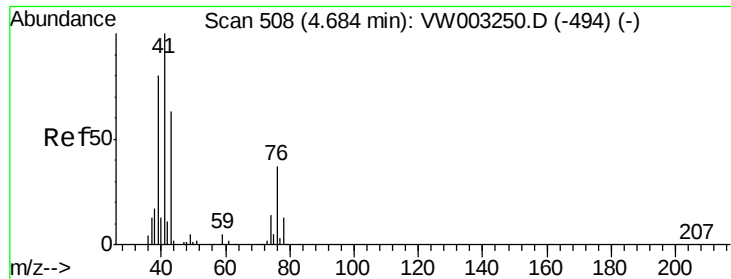
78 8.9 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

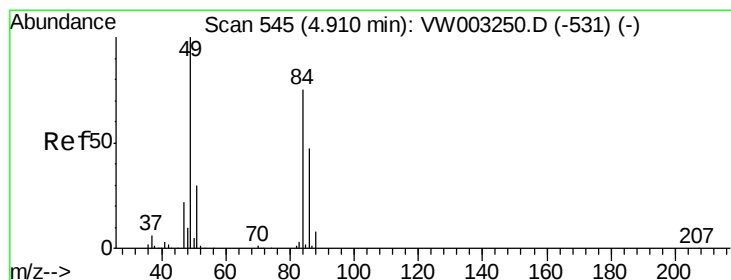
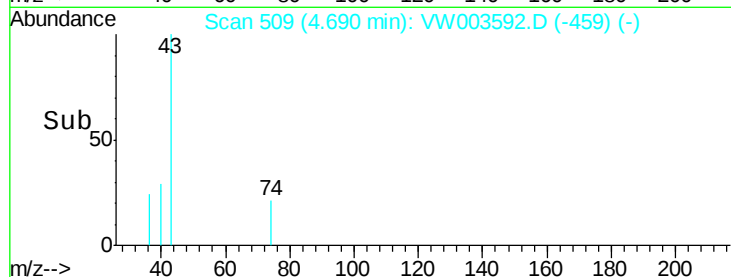
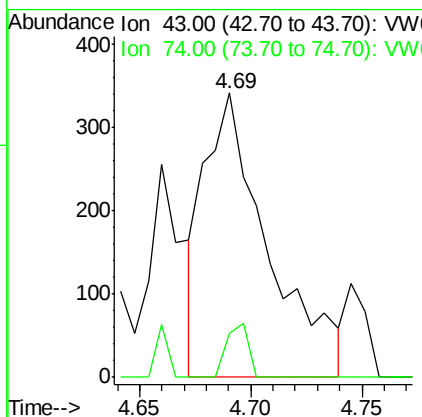
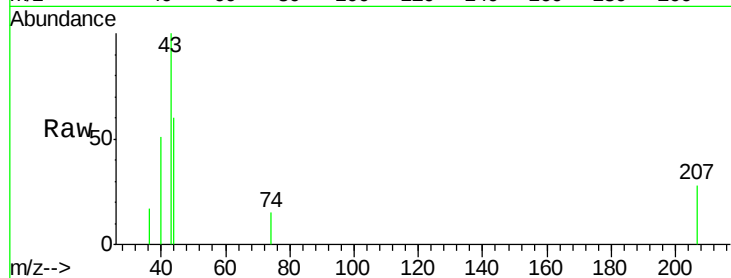




#18
Methyl Acetate
Concen: 1.450 ug/l
RT: 4.69 min Scan# 509
Delta R.T. 0.01 min
Lab File: VW003592.D
Acq: 27 Jun 2018 02:15

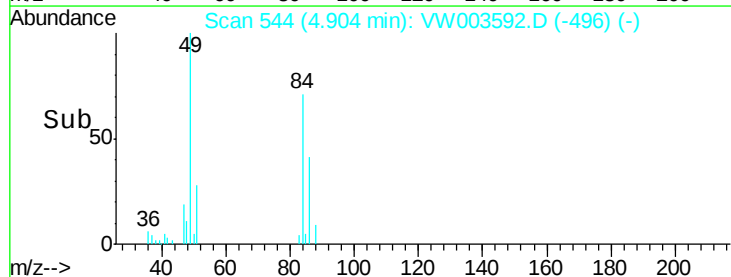
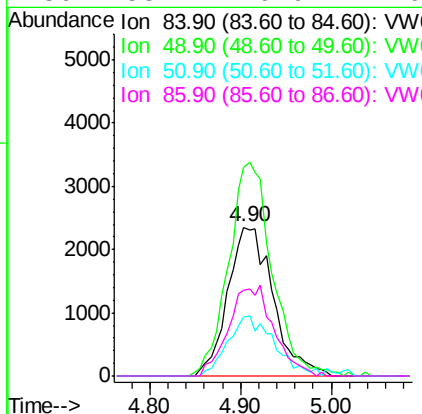
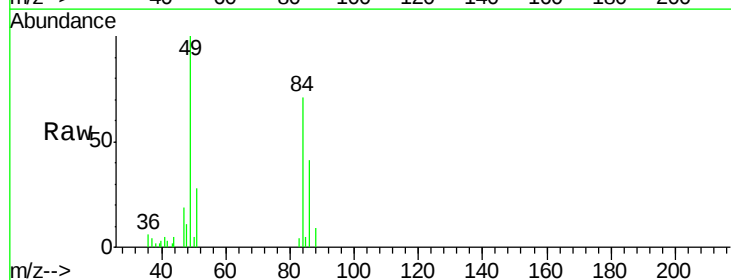
Instrument :
MSVOA_W
ClientSampleId :
ZER-SB-02-1-2

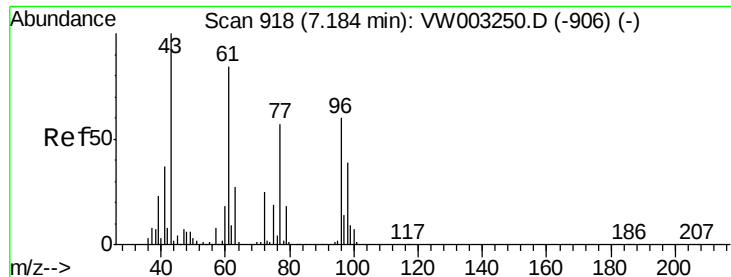
Tgt Ion: 43 Resp: 675
Ion Ratio Lower Upper
43 100
74 6.2 18.7 28.1#



#20
Methylene Chloride
Concen: 6.603 ug/l
RT: 4.90 min Scan# 544
Delta R.T. -0.01 min
Lab File: VW003592.D
Acq: 27 Jun 2018 02:15

Tgt Ion: 84 Resp: 8159
Ion Ratio Lower Upper
84 100
49 140.4 106.3 159.5
51 39.7 32.0 48.0
86 58.1 49.9 74.9





#25

2-Butanone

Concen: 26.657 ug/l

RT: 7.20 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

Instrument :

MSVOA_W

ClientSampleId :

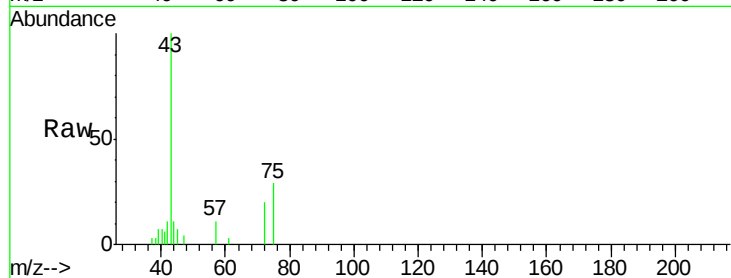
ZER-SB-02-1-2

Tgt Ion: 43 Resp: 6504

Ion Ratio Lower Upper

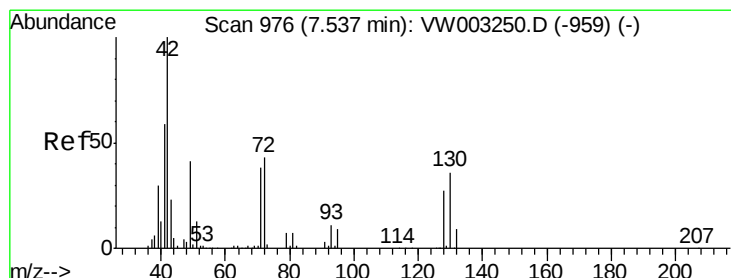
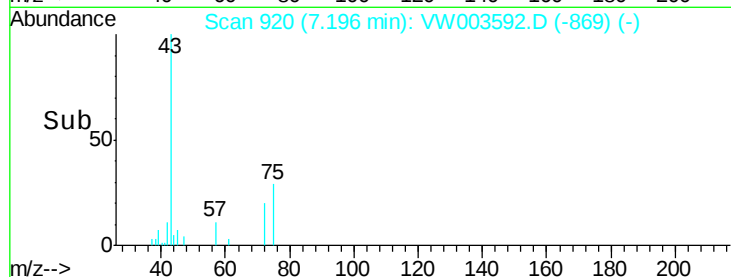
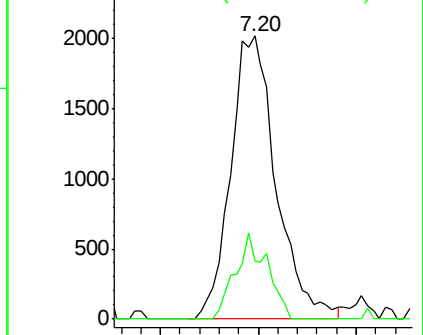
43 100

72 20.5 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 2.361 ug/l

RT: 7.55 min Scan# 978

Delta R.T. 0.01 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

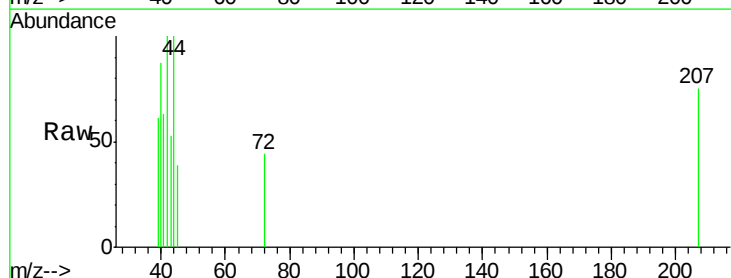
Tgt Ion: 42 Resp: 352

Ion Ratio Lower Upper

42 100

72 28.7 32.4 48.6#

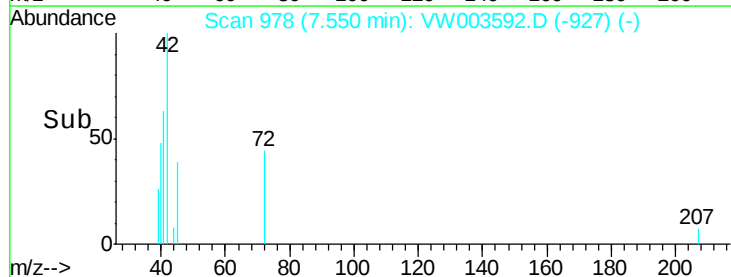
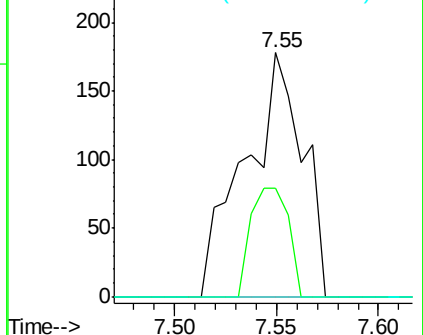
71 0.0 31.2 46.8#

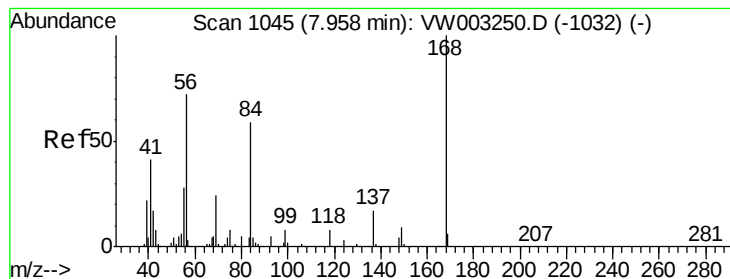


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.634 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

Instrument :

MSVOA_W

ClientSampleId :

ZER-SB-02-1-2

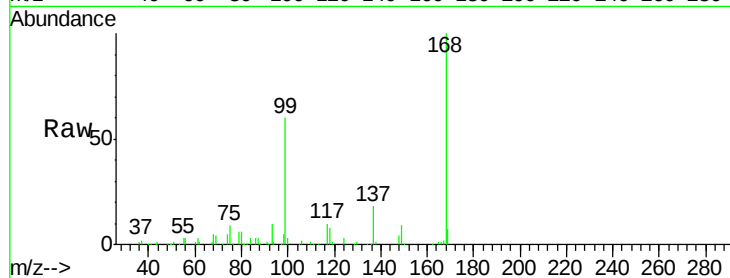
Tgt Ion: 56 Resp: 2470

Ion Ratio Lower Upper

56 100

69 128.9 26.3 39.5#

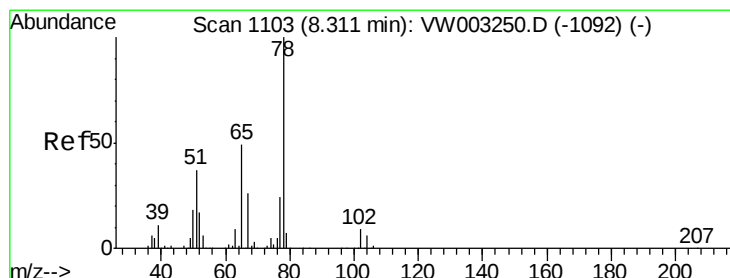
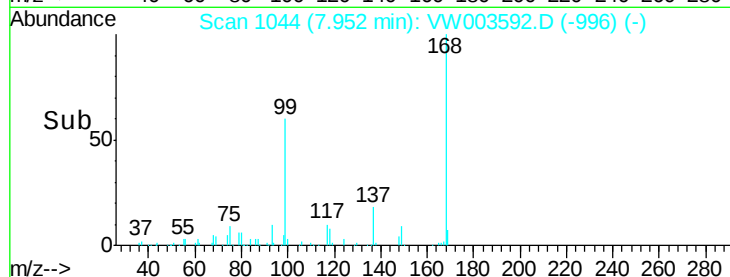
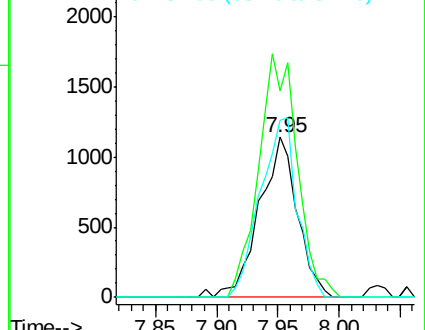
84 110.4 65.7 98.5#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 62.548 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW003592.D

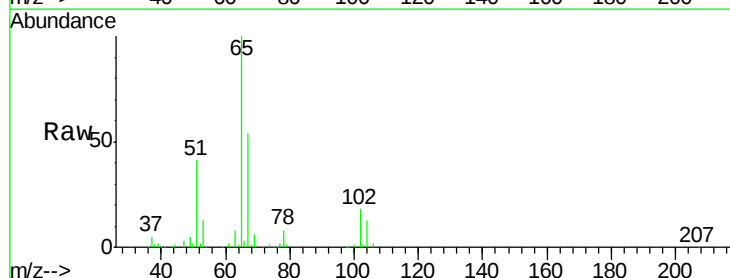
Acq: 27 Jun 2018 02:15

Tgt Ion: 65 Resp: 58517

Ion Ratio Lower Upper

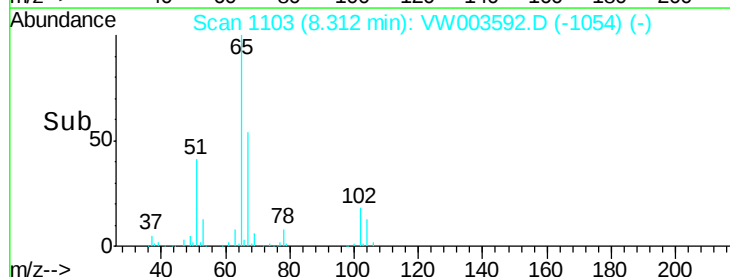
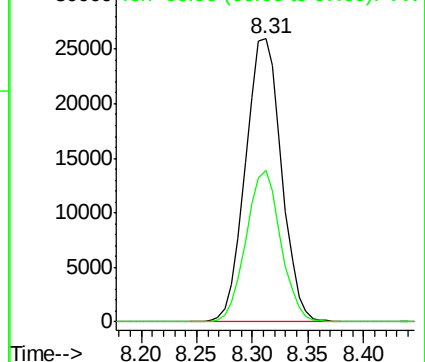
65 100

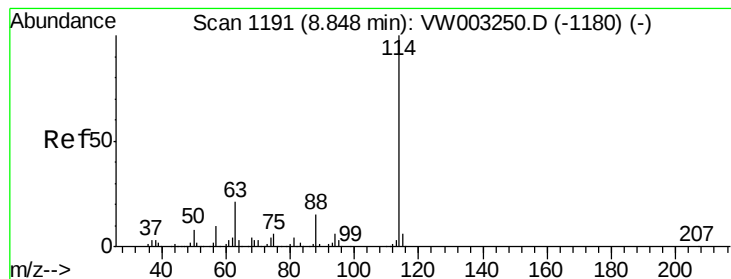
67 51.4 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

Instrument :

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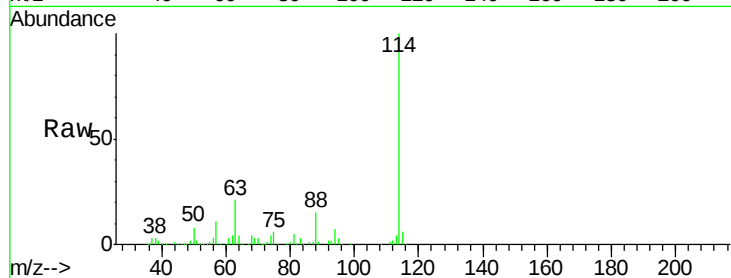
Tgt Ion:114 Resp: 130775

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.0

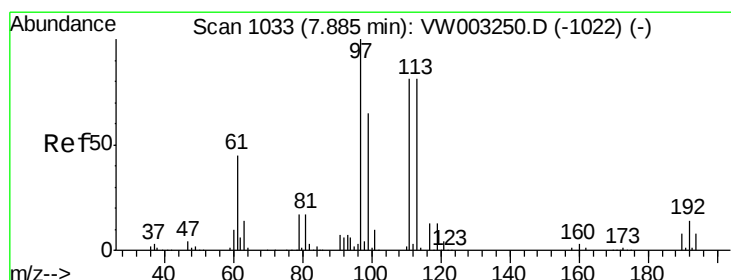
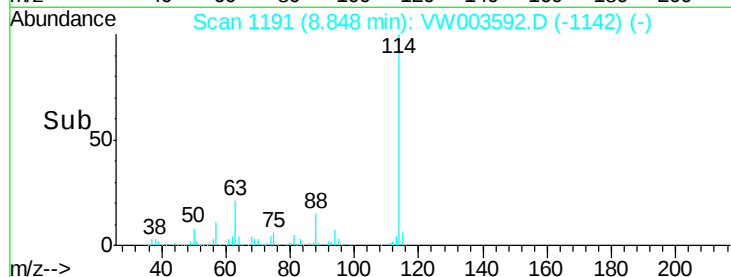
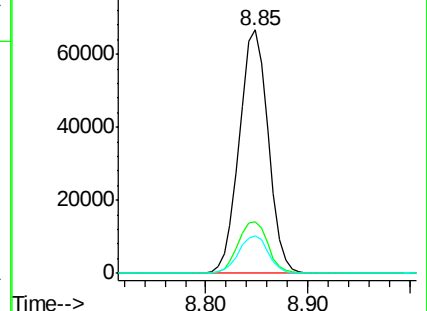
88 15.2 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 60.031 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

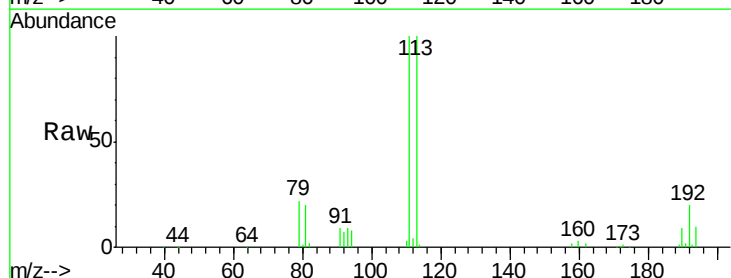
Tgt Ion:113 Resp: 48781

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.2

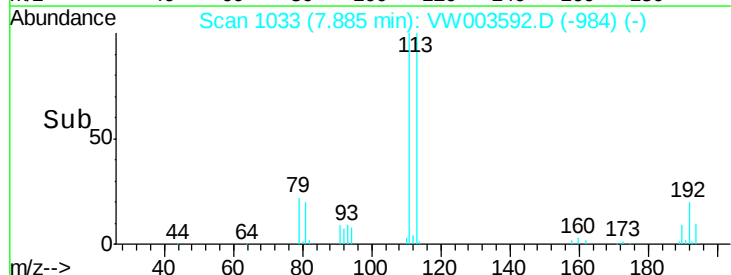
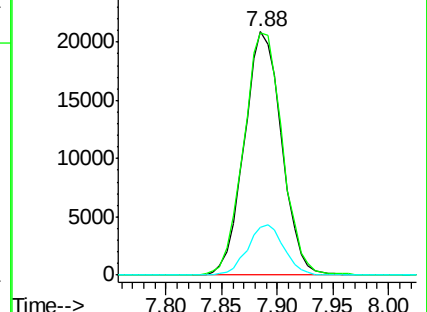
192 20.1 16.2 24.2

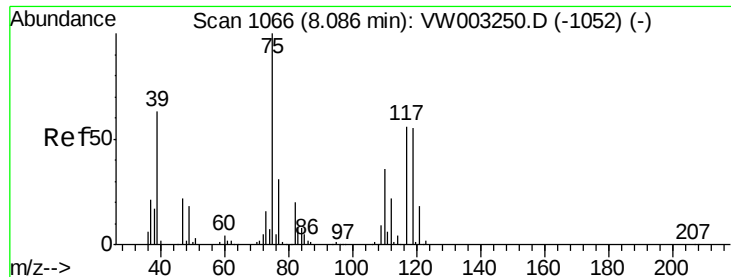


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

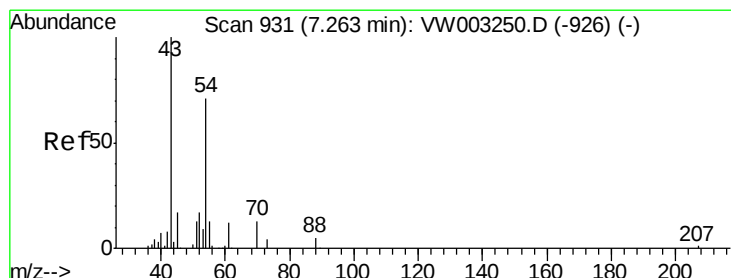
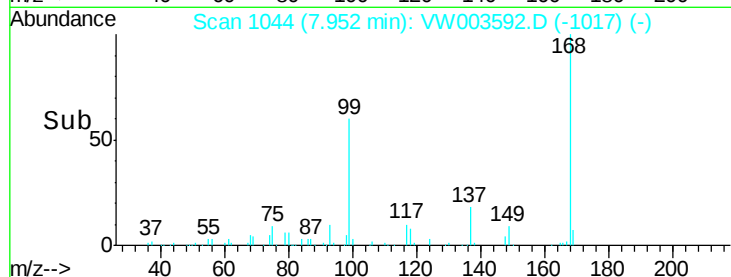
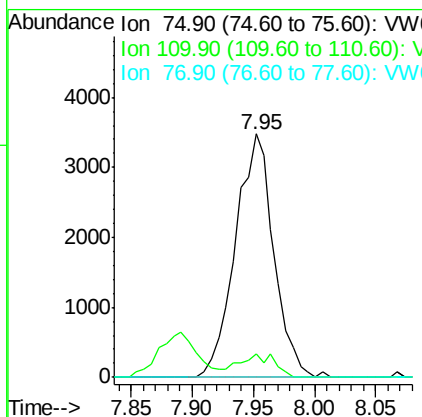
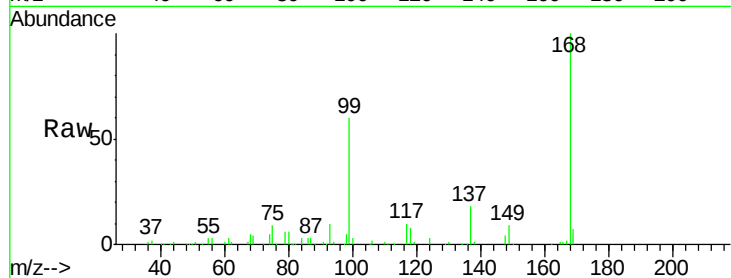




#36
 1,1-Dichloropropene
 Concen: 5.974 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.13 min
 Lab File: VW003592.D
 Acq: 27 Jun 2018 02:15

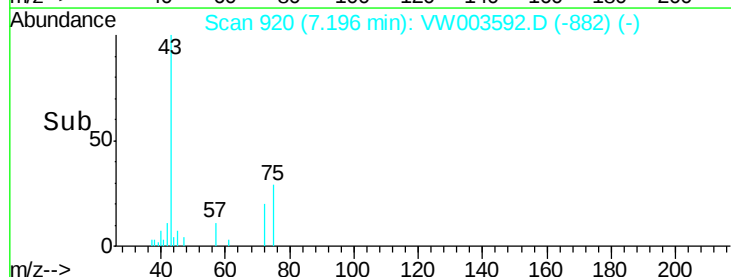
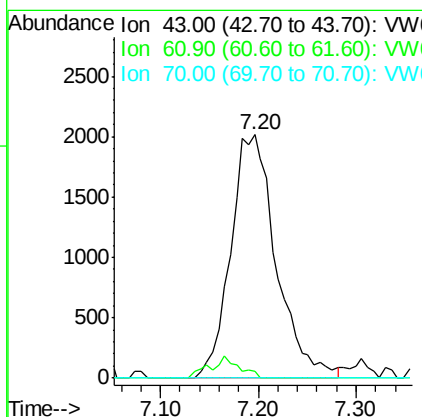
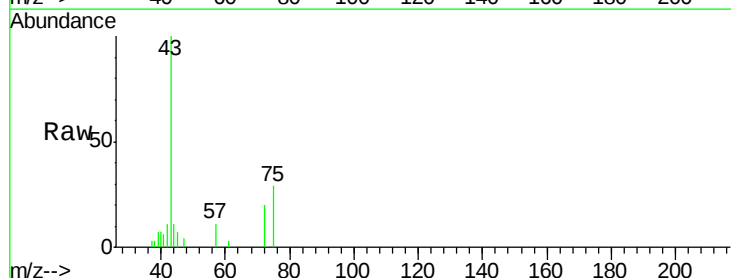
Instrument :
 MSVOA_W
 ClientSampleId :
 ZER-SB-02-1-2

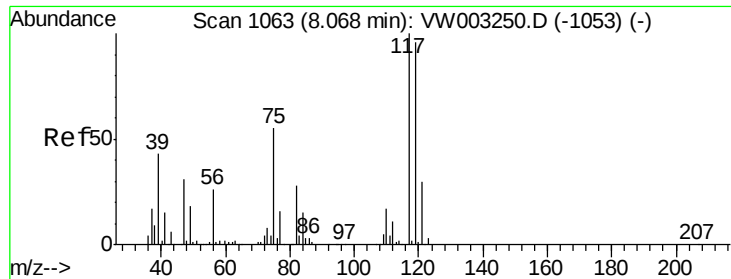
Tgt Ion: 75 Resp: 7545
 Ion Ratio Lower Upper
 75 100
 110 8.6 17.1 51.3#
 77 0.0 24.9 37.3#



#37
 Ethyl Acetate
 Concen: 12.431 ug/l
 RT: 7.20 min Scan# 920
 Delta R.T. -0.07 min
 Lab File: VW003592.D
 Acq: 27 Jun 2018 02:15

Tgt Ion: 43 Resp: 6504
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.8 16.2#
 70 0.0 7.8 11.6#

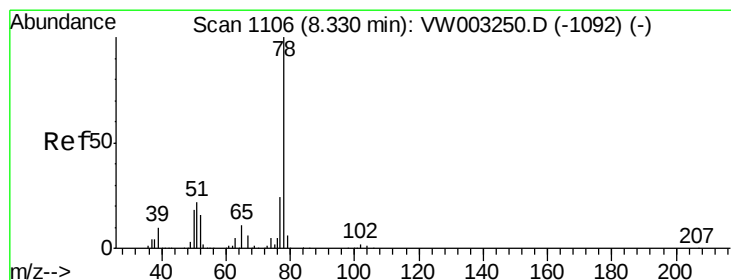
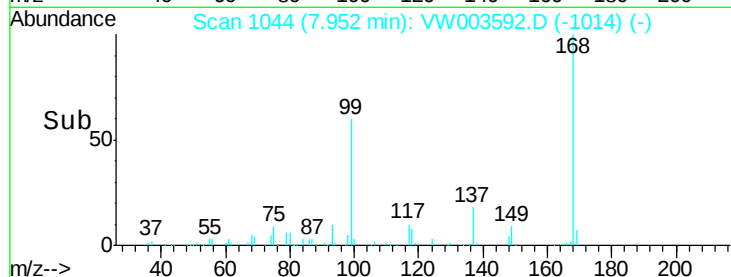
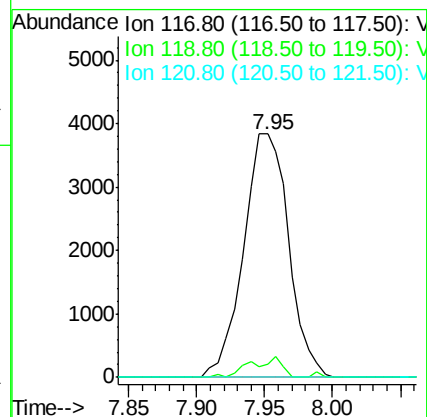
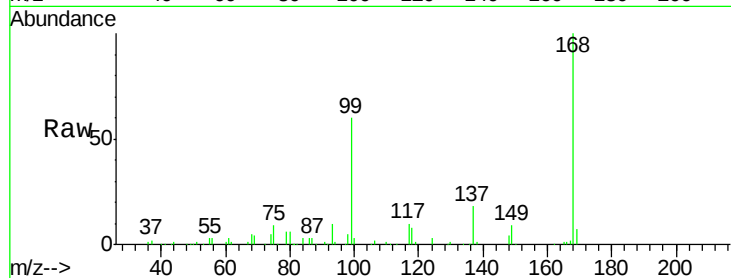




#38
 Carbon Tetrachloride
 Concen: 7.190 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.12 min
 Lab File: VW003592.D
 Acq: 27 Jun 2018 02:15

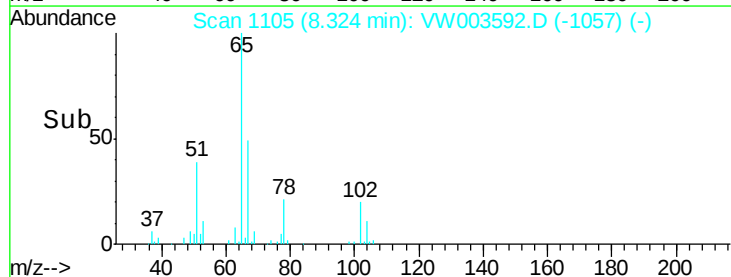
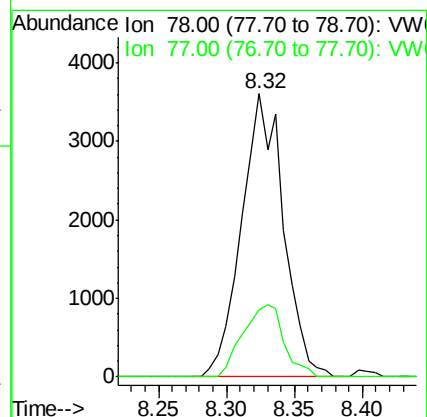
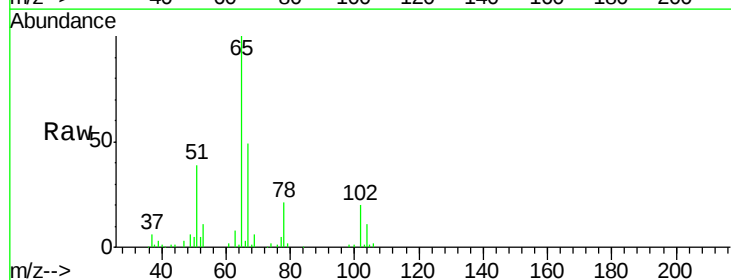
Instrument :
 MSVOA_W
 ClientSampleId :
 ZER-SB-02-1-2

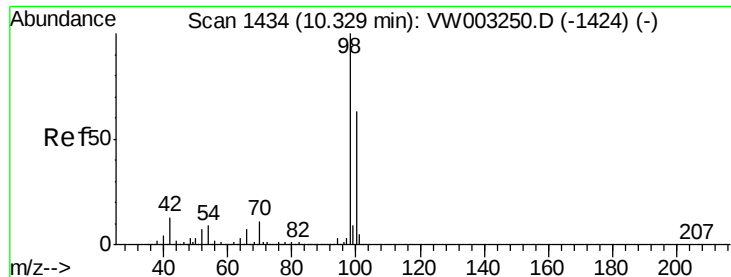
Tgt Ion: 117 Resp: 8907
 Ion Ratio Lower Upper
 117 100
 119 5.4 76.6 115.0#
 121 0.0 23.9 35.9#



#40
 Benzene
 Concen: 2.229 ug/l
 RT: 8.32 min Scan# 1105
 Delta R.T. -0.01 min
 Lab File: VW003592.D
 Acq: 27 Jun 2018 02:15

Tgt Ion: 78 Resp: 7759
 Ion Ratio Lower Upper
 78 100
 77 23.6 19.0 28.6





#50

Toluene-d8

Concen: 44.074 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

Instrument :

MSVOA_W

ClientSampleId :

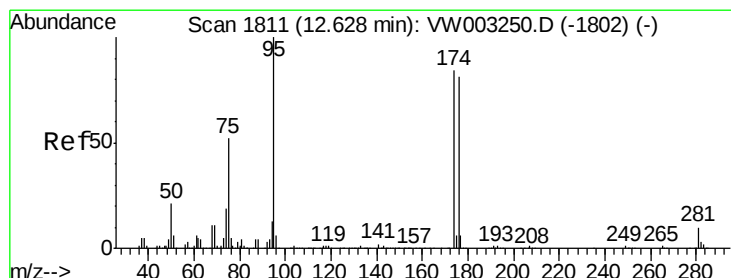
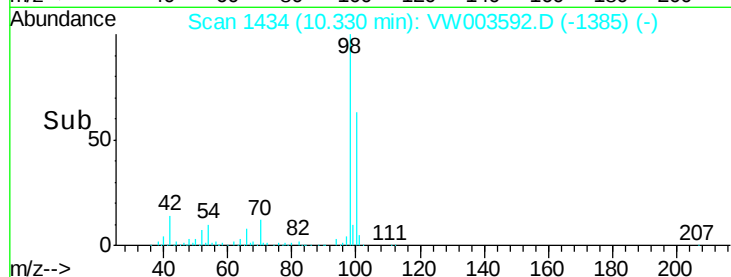
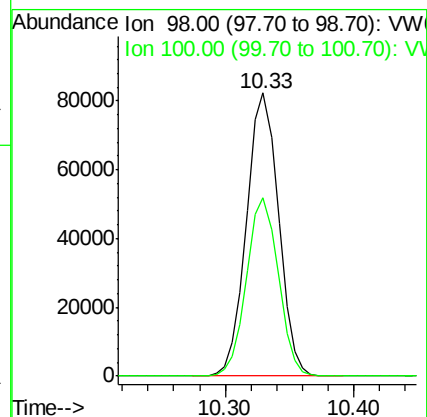
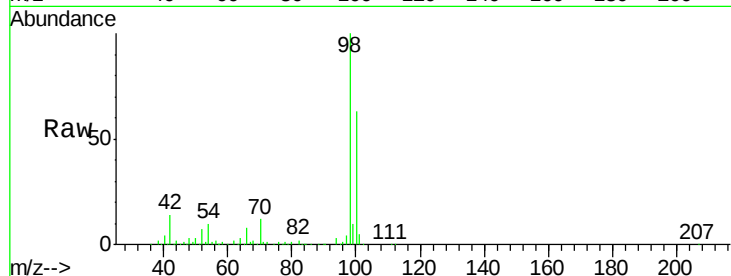
ZER-SB-02-1-2

Tgt Ion: 98 Resp: 142011

Ion Ratio Lower Upper

98 100

100 62.4 50.8 76.2



#62

4-Bromofluorobenzene

Concen: 21.812 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.01 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

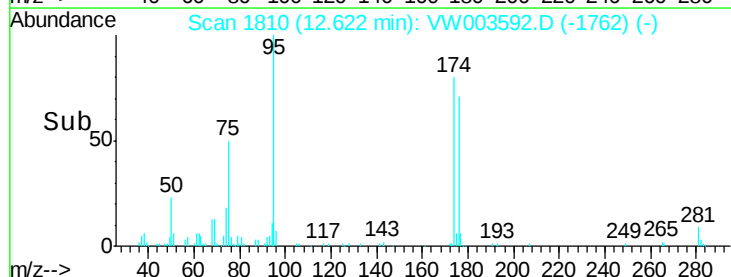
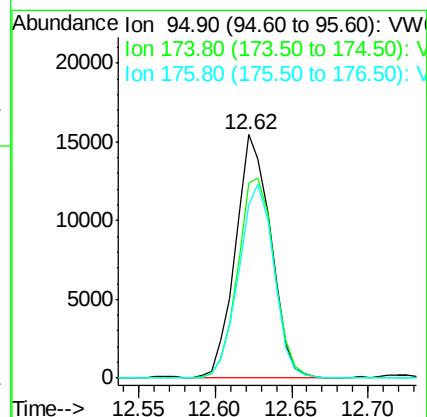
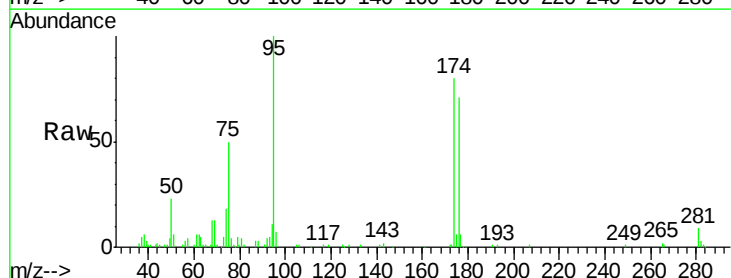
Tgt Ion: 95 Resp: 24872

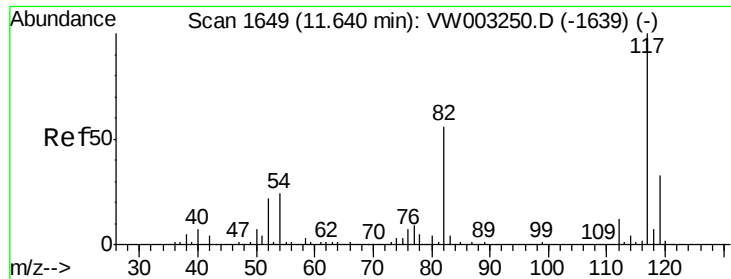
Ion Ratio Lower Upper

95 100

174 84.6 0.0 166.4

176 79.1 0.0 162.0

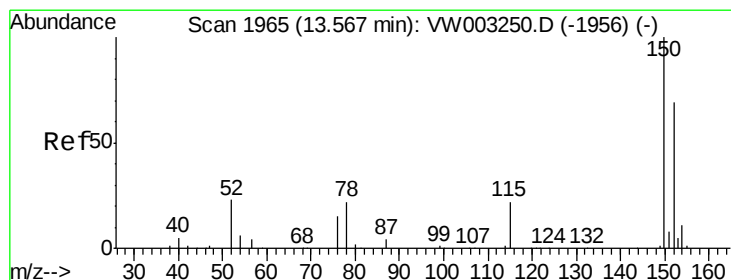
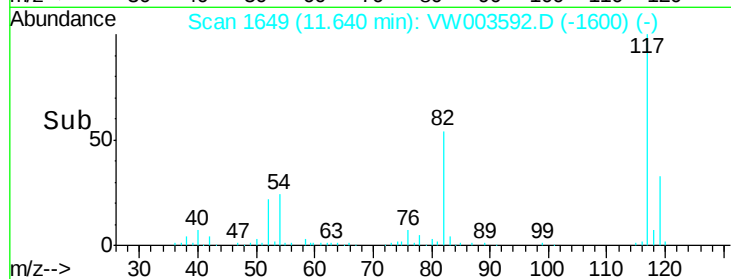
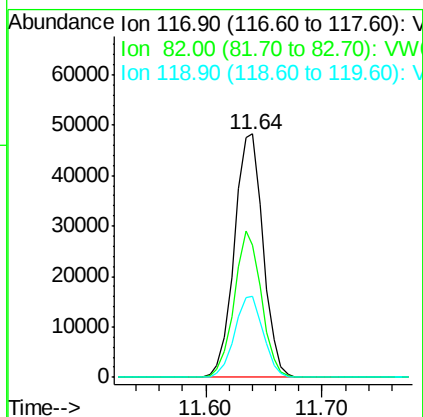
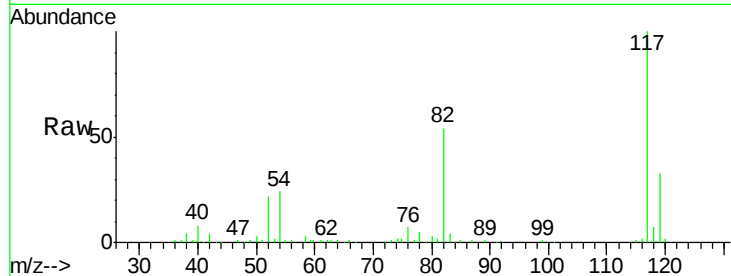




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VW003592.D
Acq: 27 Jun 2018 02:15

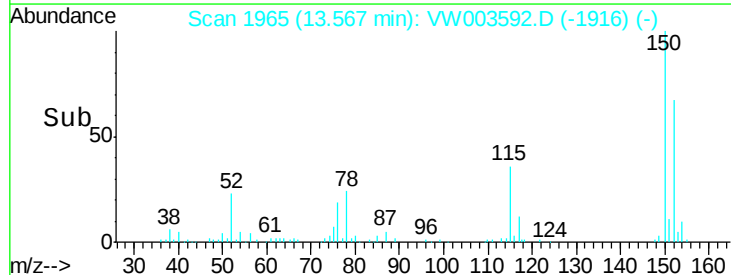
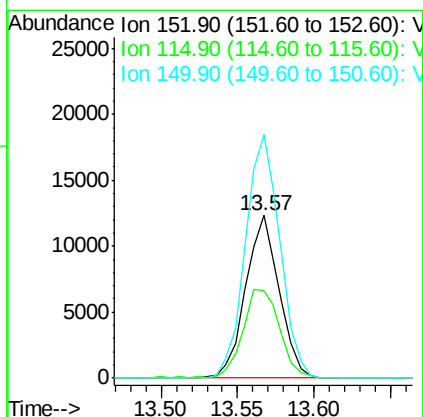
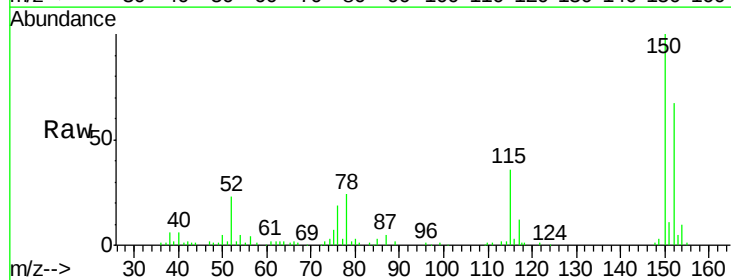
Instrument :
MSVOA_W
ClientSampleId :
ZER-SB-02-1-2

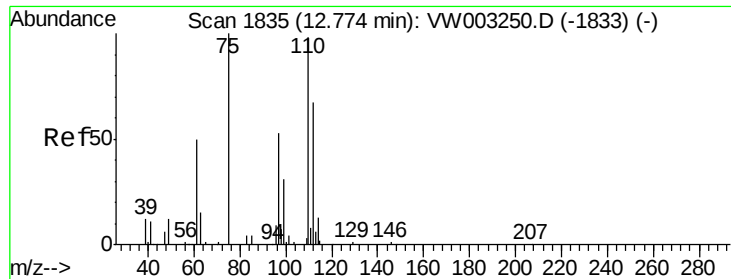
Tgt Ion:117 Resp: 82808
Ion Ratio Lower Upper
117 100
82 54.4 44.6 67.0
119 33.1 26.7 40.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VW003592.D
Acq: 27 Jun 2018 02:15

Tgt Ion:152 Resp: 18765
Ion Ratio Lower Upper
152 100
115 59.6 29.3 88.0
150 154.0 0.0 349.6





#76

1,2,3-Trichloropropane

Concen: 82.521 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

Instrument :

MSVOA_W

ClientSampleId :

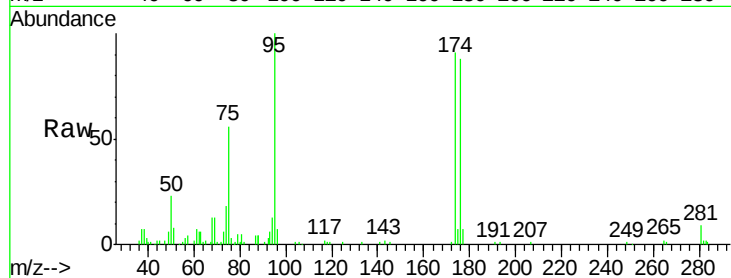
ZER-SB-02-1-2

Tgt Ion: 75 Resp: 13238

Ion Ratio Lower Upper

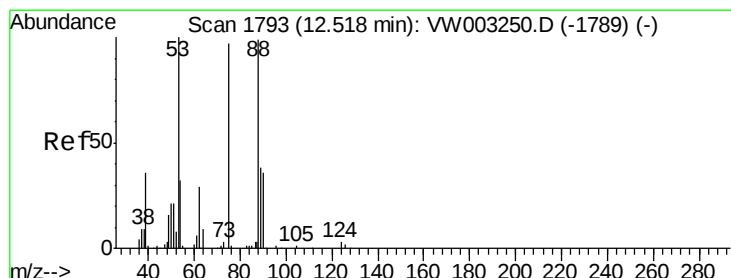
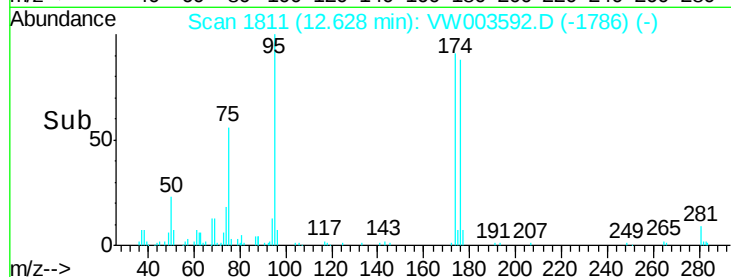
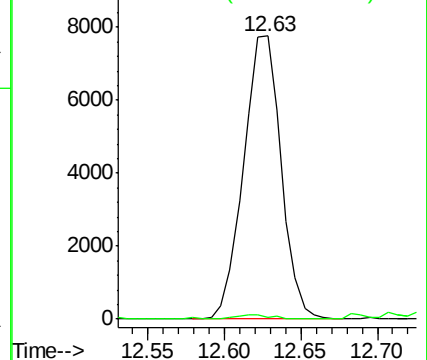
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 189.886 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.11 min

Lab File: VW003592.D

Acq: 27 Jun 2018 02:15

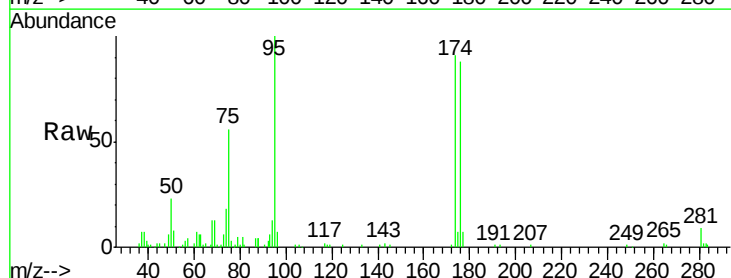
Tgt Ion: 75 Resp: 13238

Ion Ratio Lower Upper

75 100

53 0.6 82.9 124.3#

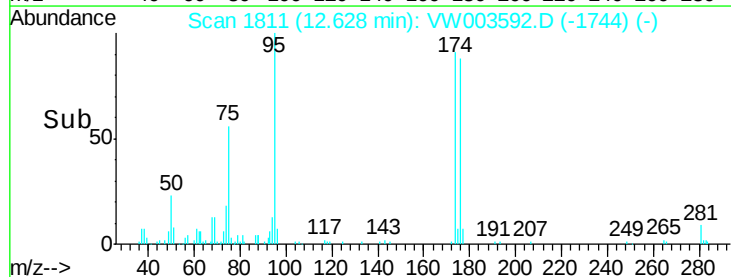
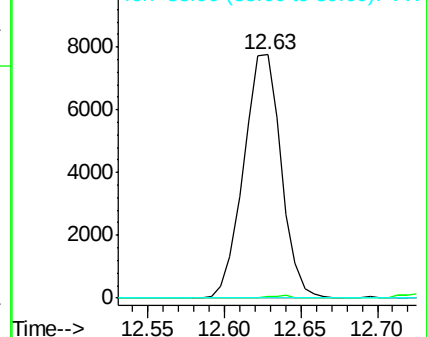
89 0.0 36.7 55.1#

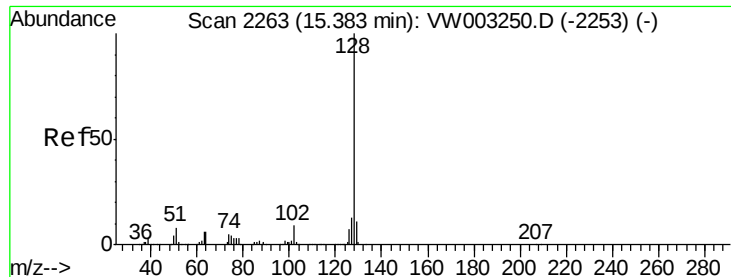


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#95

Naphthalene

Concen: 2.487 ug/l

RT: 15.37 min Scan# 2261

Delta R.T. -0.01 min

Lab File: VW003592.D

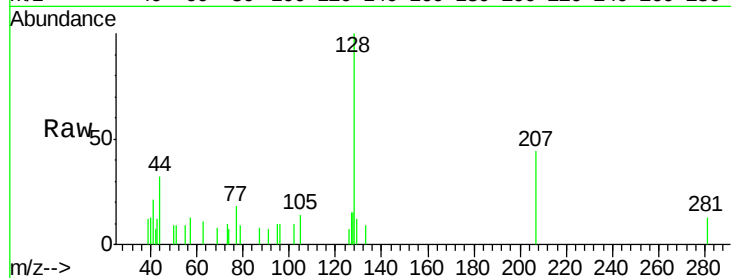
Acq: 27 Jun 2018 02:15

Instrument :

MSVOA_W

ClientSampleId :

ZER-SB-02-1-2



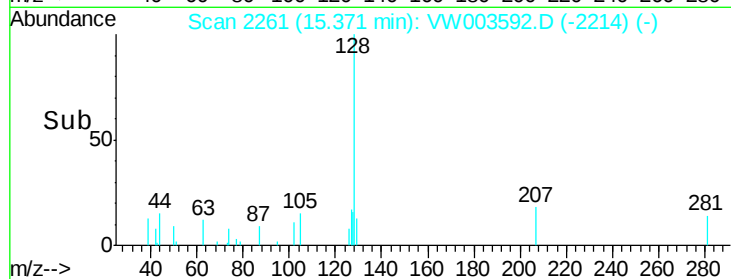
Tgt Ion:128 Resp: 1620

Ion Ratio Lower Upper

128 100

127 15.9 10.5 15.7#

129 10.2 8.9 13.3



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

