

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071718\
 Data File : VW003989.D
 Acq On : 17 Jul 2018 17:02
 Operator : VA/AP
 Sample : J3819-03
 Misc : 5.54G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 AU-05-071318-B

Quant Time: Jul 18 04:50:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W071618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 15:06:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	155546	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	268055	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	216541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	82270	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	108692	62.51	ug/l	0.00
Spiked Amount			Recovery	=	125.02%	
35) Dibromofluoromethane	7.88	113	90450	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
50) Toluene-d8	10.33	98	259081	38.82	ug/l	0.00
Spiked Amount			Recovery	=	77.64%	
62) 4-Bromofluorobenzene	12.63	95	82744	34.38	ug/l	0.00
Spiked Amount			Recovery	=	68.76%	

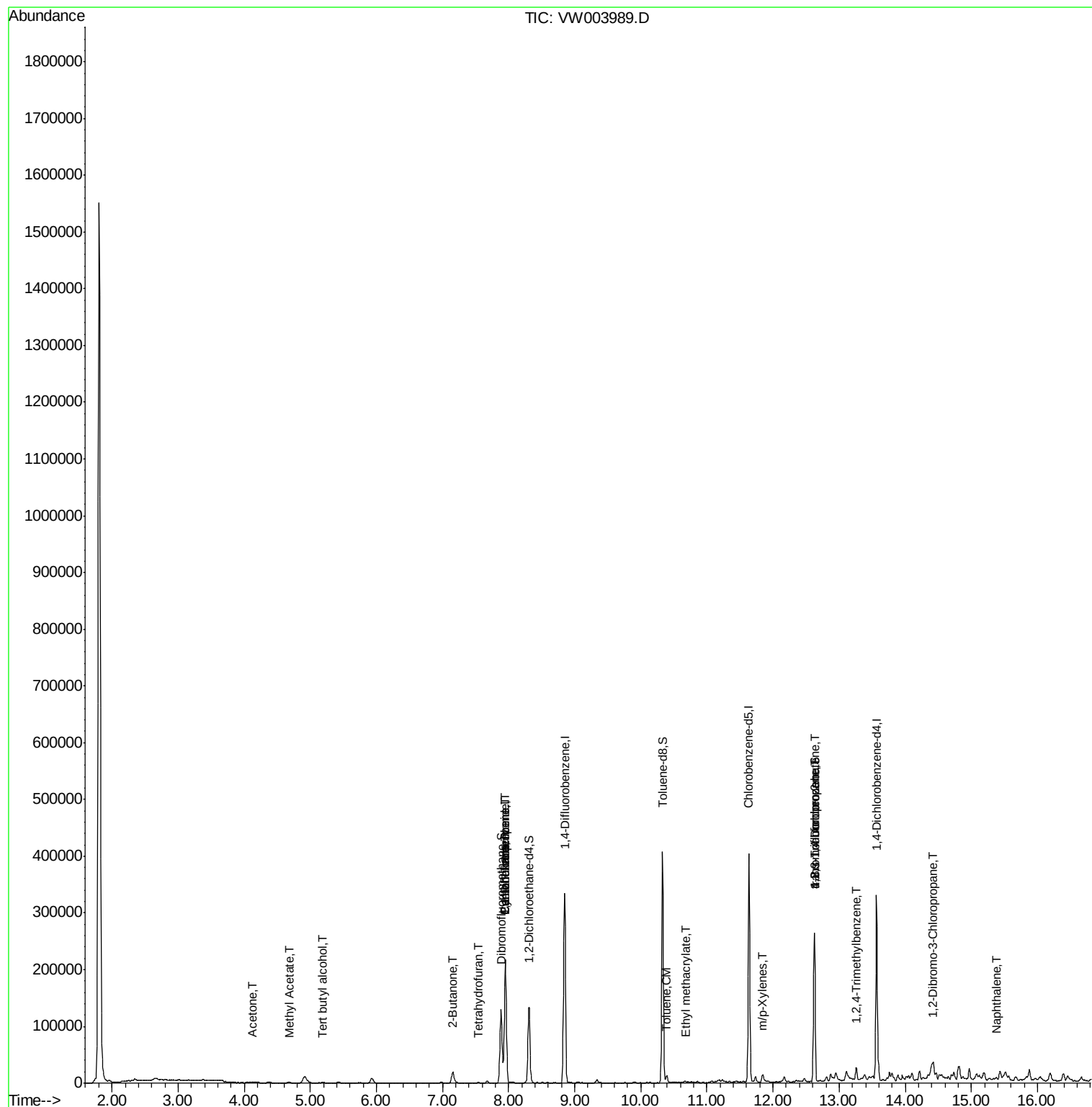
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.18	59	911	7.590	ug/l #	79
16) Acetone	4.13	43	3232	7.736	ug/l	99
18) Methyl Acetate	4.68	43	1078	1.075	ug/l #	58
20) Methylene Chloride	4.91	84	9534	Below Cal	#	91
25) 2-Butanone	7.15	43	574	1.021	ug/l #	51
29) Tetrahydrofuran	7.54	42	387	1.105	ug/l #	54
31) Cyclohexane	7.95	56	4717	1.635	ug/l #	39
36) 1,1-Dichloropropene	7.95	75	13578	4.923	ug/l #	50
38) Carbon Tetrachloride	7.95	117	15501	6.015	ug/l #	17
52) Toluene	10.39	92	4815	1.018	ug/l	99
56) Ethyl methacrylate	10.68	69	307	3.088	ug/l #	14
68) m/p-Xylenes	11.84	106	3829	1.239	ug/l	92
76) 1,2,3-Trichloropropane	12.62	75	44556	54.553	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	44556	120.669	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.26	105	12253	2.434	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.41	75	2516	12.585	ug/l #	7
95) Naphthalene	15.38	128	3864	1.204	ug/l	97

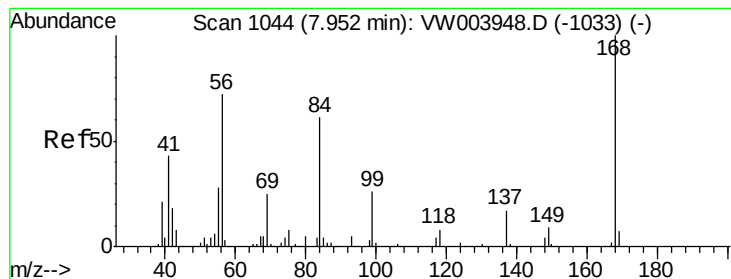
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW003989.D

Acq: 17 Jul 2018 17:02

Instrument :

MSVOA_W

ClientSampleId :

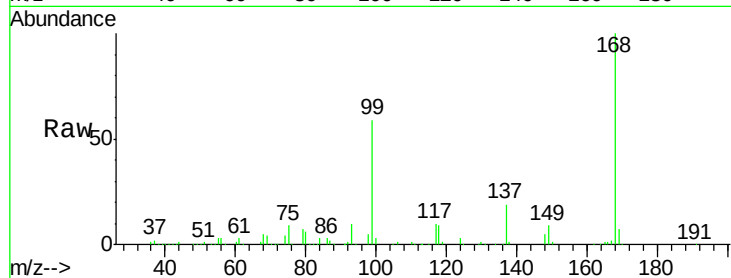
AU-05-071318-B

Tot Ion:168 Resp: 155546

Ion Ratio Lower Upper

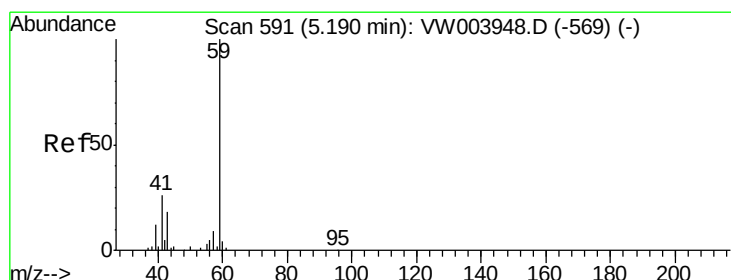
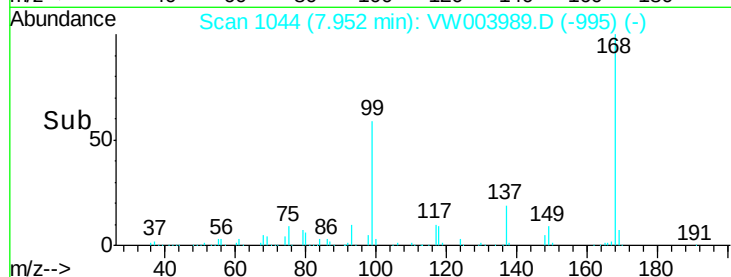
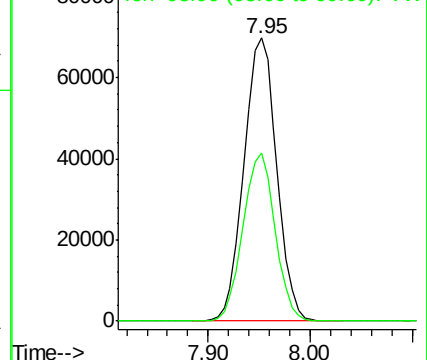
168 100

99 59.2 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 7.590 ug/l

RT: 5.18 min Scan# 589

Delta R.T. -0.01 min

Lab File: VW003989.D

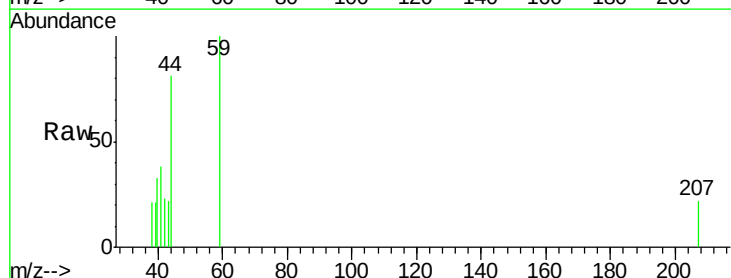
Acq: 17 Jul 2018 17:02

Tgt Ion: 59 Resp: 911

Ion Ratio Lower Upper

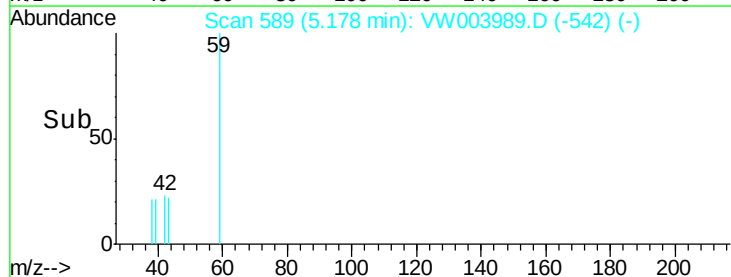
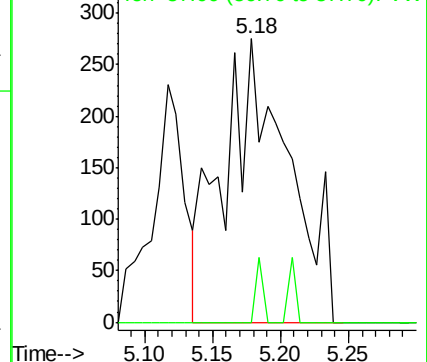
59 100

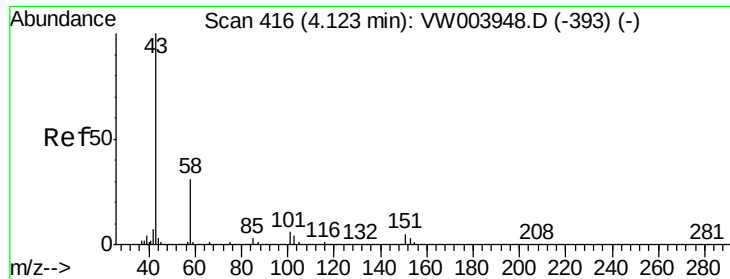
57 2.5 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 7.736 ug/l

RT: 4.13 min Scan# 417

Delta R.T. 0.01 min

Lab File: VW003989.D

Acq: 17 Jul 2018 17:02

Instrument :

MSVOA_W

ClientSampleId :

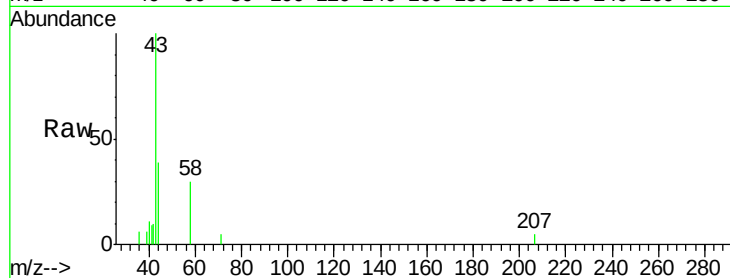
AU-05-071318-B

Tot Ion: 43 Resp: 3232

Ion Ratio Lower Upper

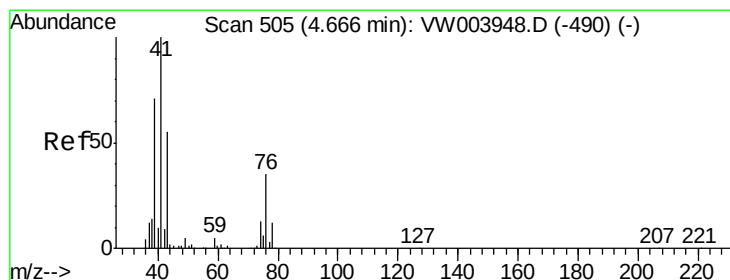
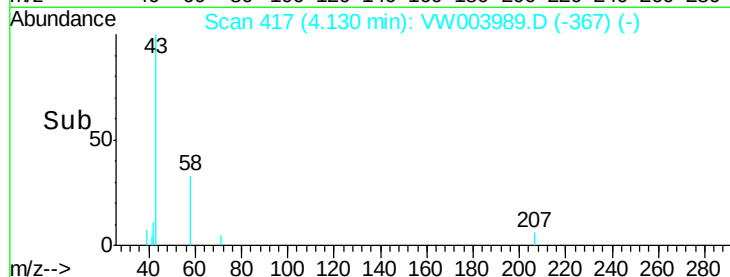
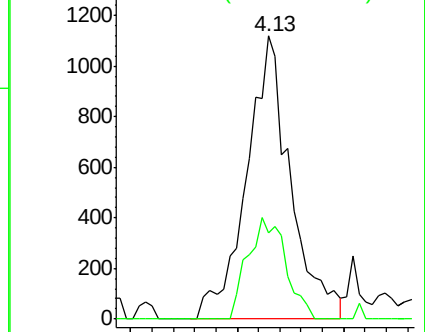
43 100

58 30.2 24.5 36.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 1.075 ug/l

RT: 4.68 min Scan# 507

Delta R.T. 0.01 min

Lab File: VW003989.D

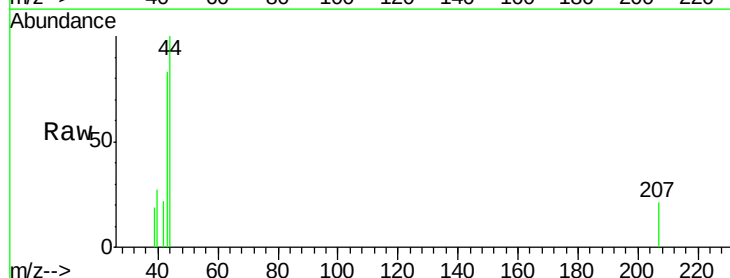
Acq: 17 Jul 2018 17:02

Tgt Ion: 43 Resp: 1078

Ion Ratio Lower Upper

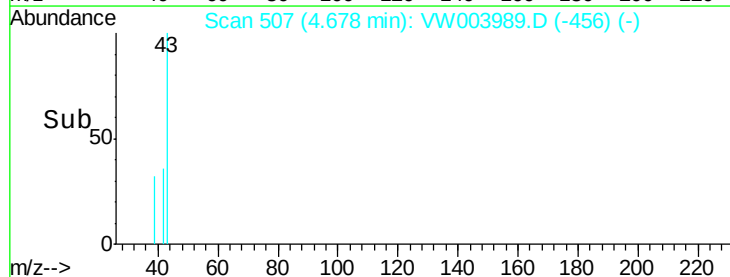
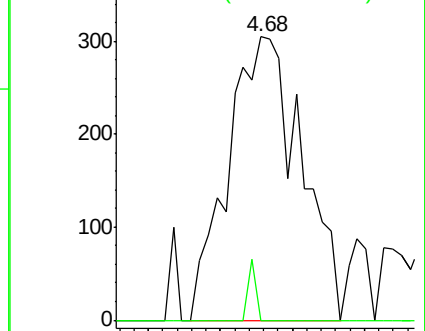
43 100

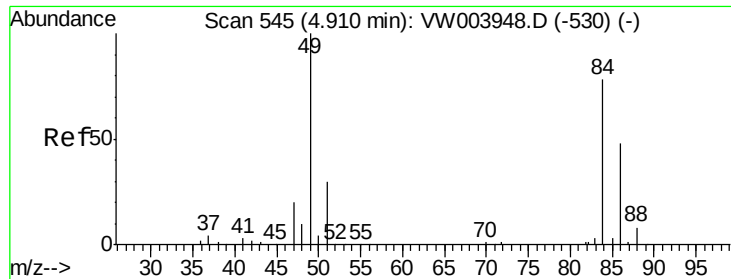
74 2.2 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

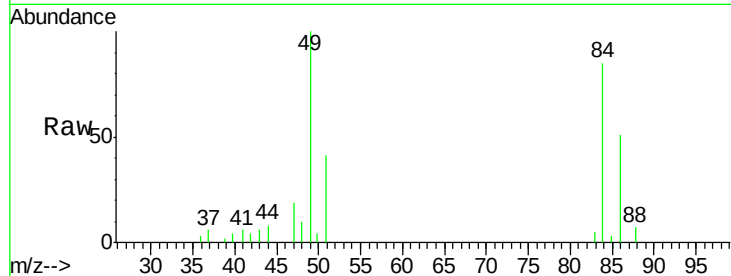




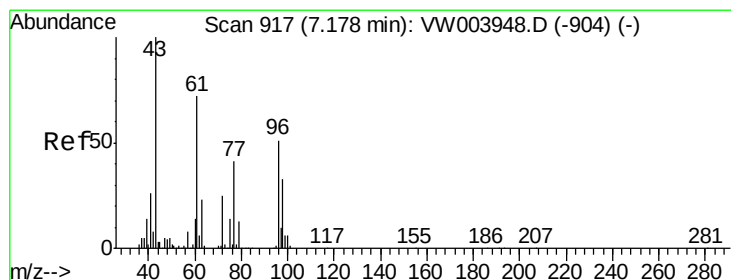
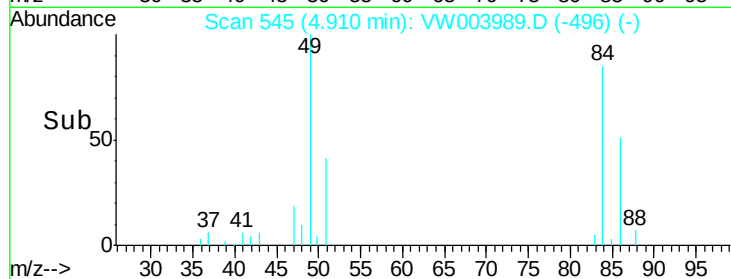
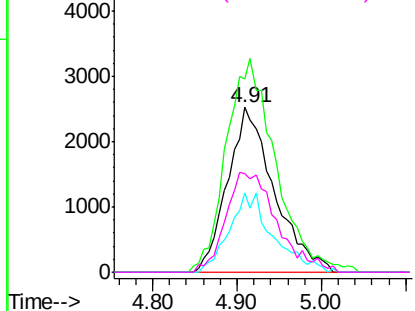
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW003989.D
Acq: 17 Jul 2018 17:02

Instrument :
MSVOA_W
ClientSampleId :
AU-05-071318-B

Tot Ion: 84 Resp: 9534
Ion Ratio Lower Upper
84 100
49 117.1 102.9 154.3
51 48.5 30.9 46.3#
86 59.8 49.9 74.9

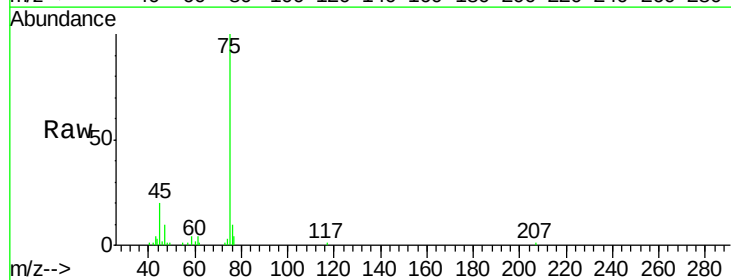


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

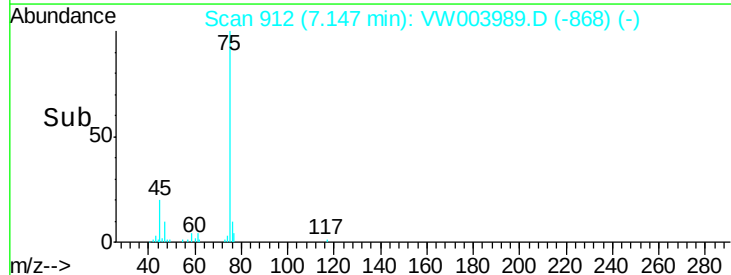
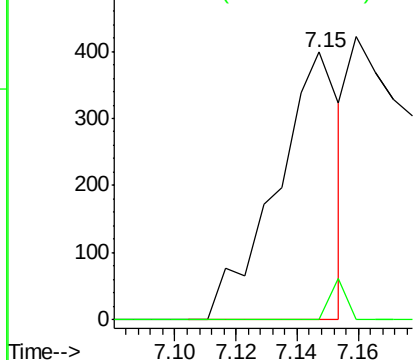


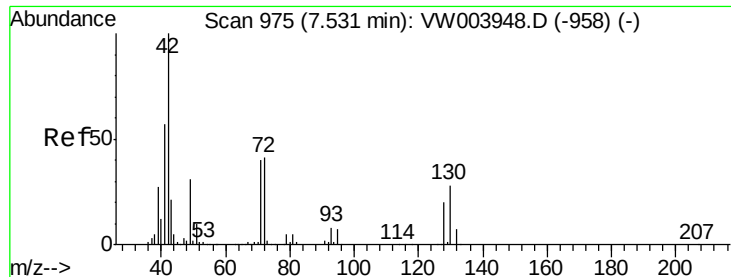
#25
2-Butanone
Concen: 1.021 ug/l
RT: 7.15 min Scan# 912
Delta R.T. -0.03 min
Lab File: VW003989.D
Acq: 17 Jul 2018 17:02

Tgt Ion: 43 Resp: 574
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#29

Tetrahydrofuran

Concen: 1.105 ug/l

RT: 7.54 min Scan# 977

Delta R.T. 0.01 min

Lab File: VW003989.D

Acq: 17 Jul 2018 17:02

Instrument :

MSVOA_W

ClientSampleId :

AU-05-071318-B

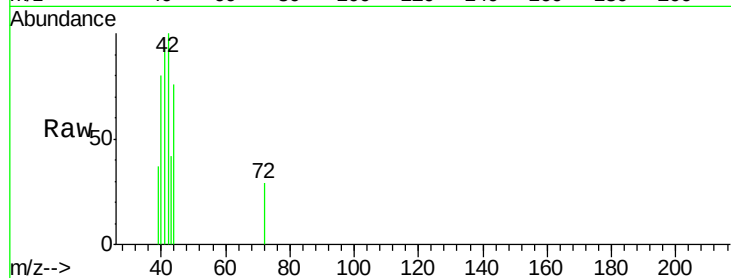
Tot Ion: 42 Resp: 387

Ion Ratio Lower Upper

42 100

72 22.2 32.6 48.8#

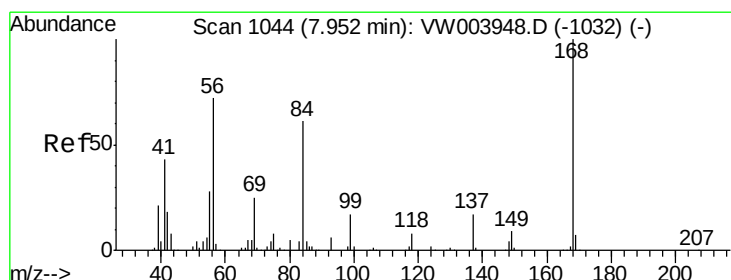
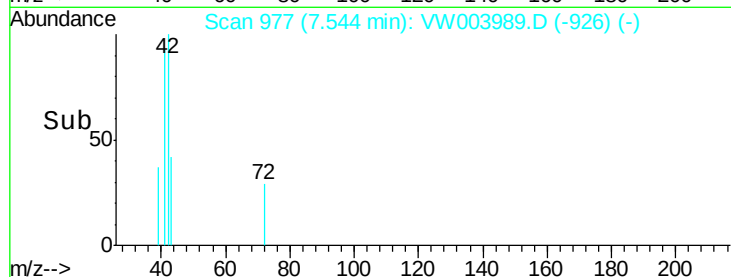
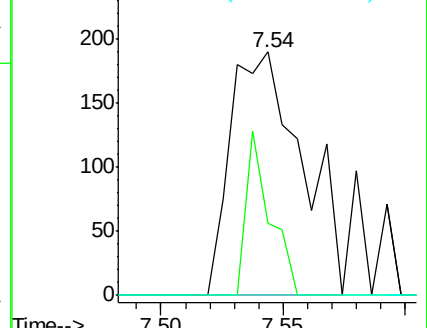
71 0.0 30.5 45.7#



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: 1.635 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003989.D

Acq: 17 Jul 2018 17:02

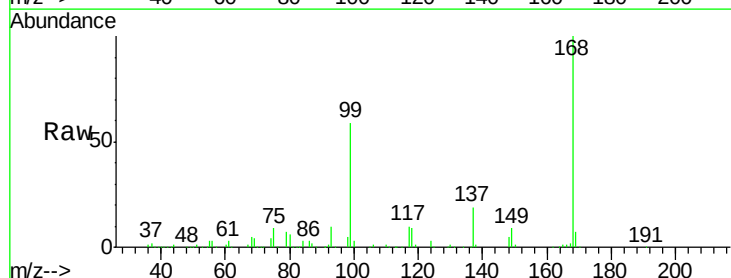
Tgt Ion: 56 Resp: 4717

Ion Ratio Lower Upper

56 100

69 137.5 27.8 41.8#

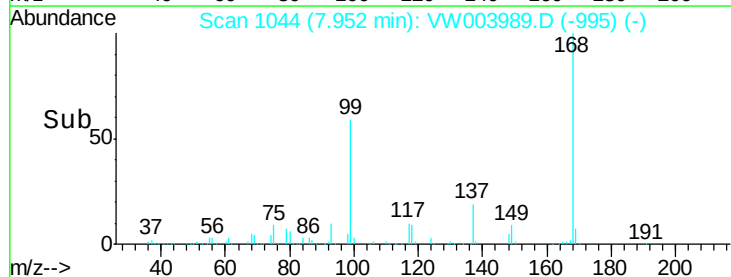
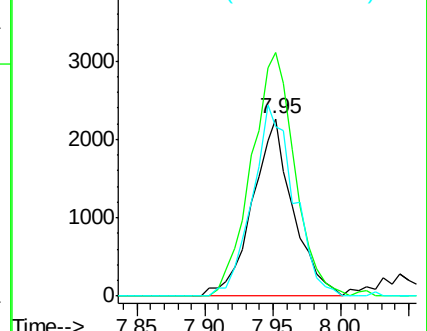
84 95.3 67.2 100.8

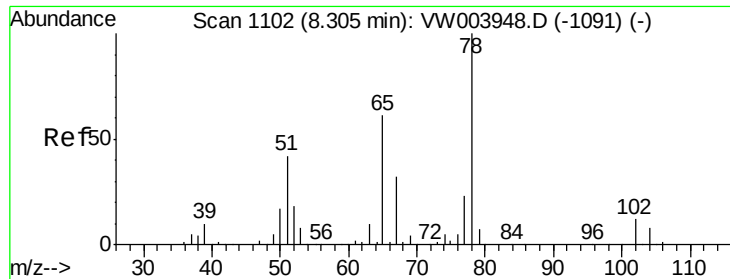


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

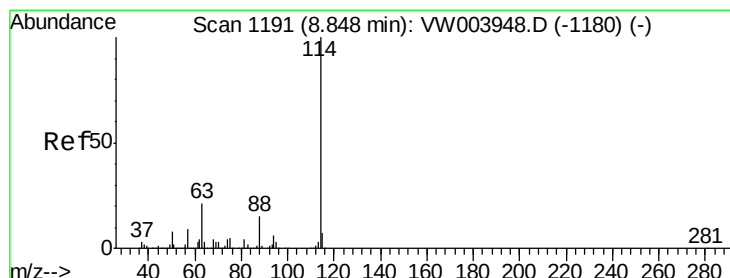
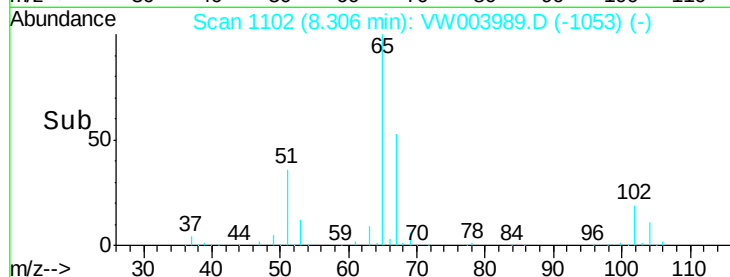
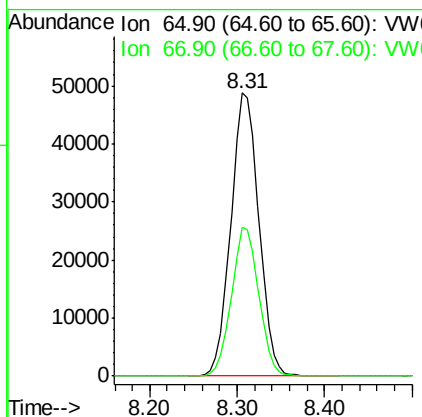
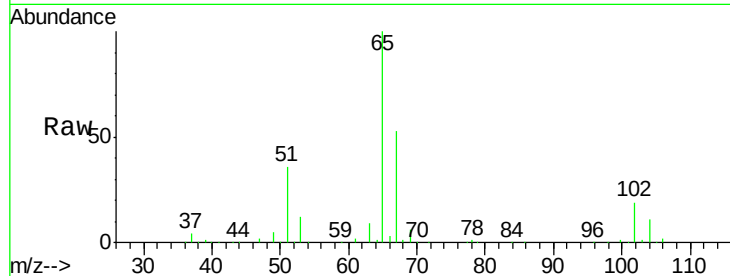




#33
 1,2-Dichloroethane-d4
 Concen: 62.514 ug/l
 RT: 8.31 min Scan# 1102
 Delta R.T. 0.00 min
 Lab File: VW003989.D
 Acq: 17 Jul 2018 17:02

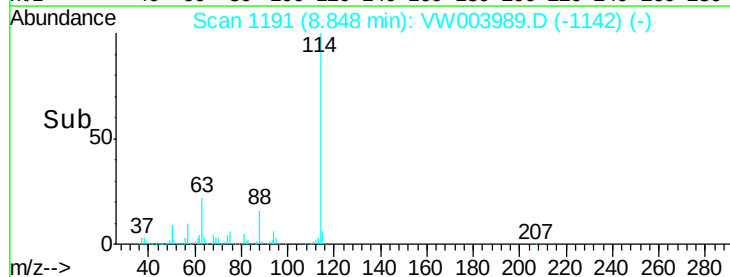
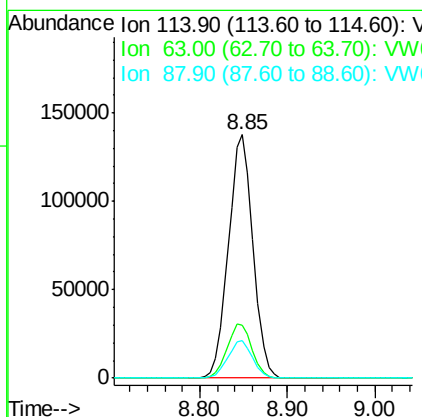
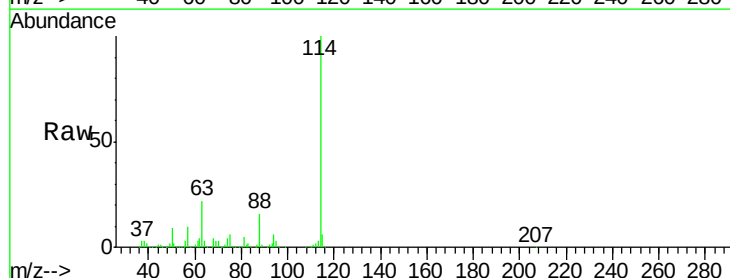
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 AU-05-071318-B

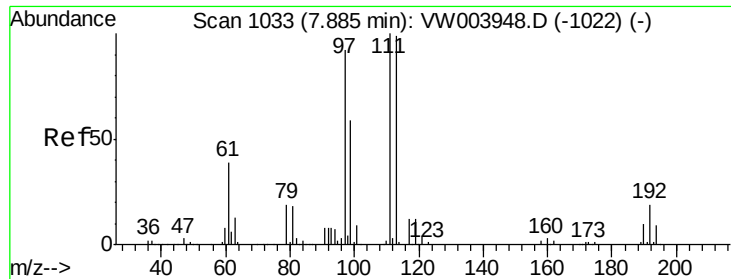
Tot Ion: 65 Resp: 108692
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW003989.D
 Acq: 17 Jul 2018 17:02

Tgt Ion: 114 Resp: 268055
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 42.8
 88 15.6 0.0 30.4

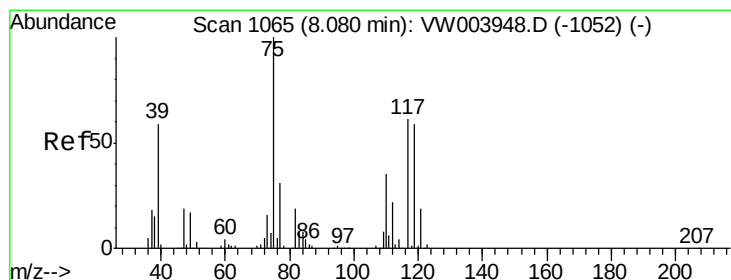
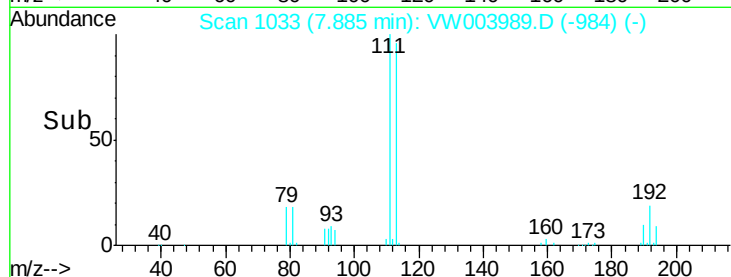
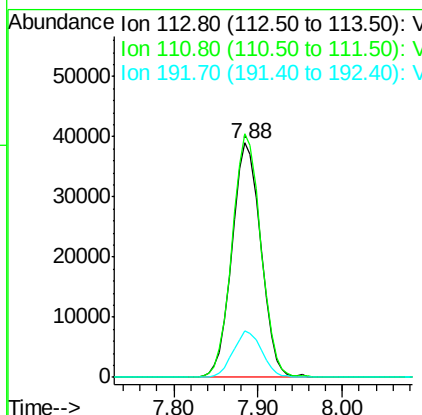
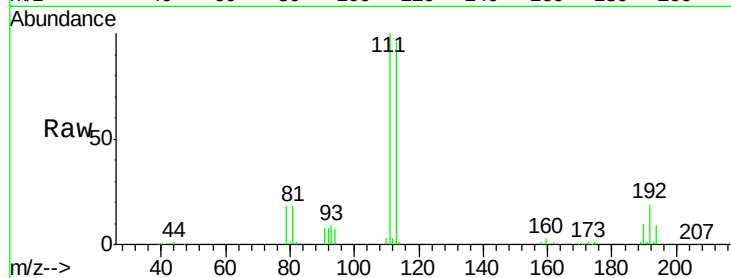




#35
 Dibromofluoromethane
 Concen: 52.590 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. 0.00 min
 Lab File: VW003989.D
 Acq: 17 Jul 2018 17:02

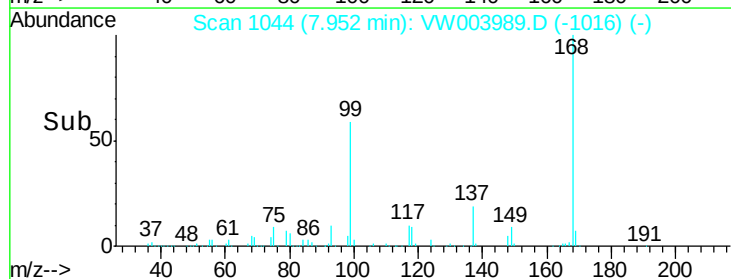
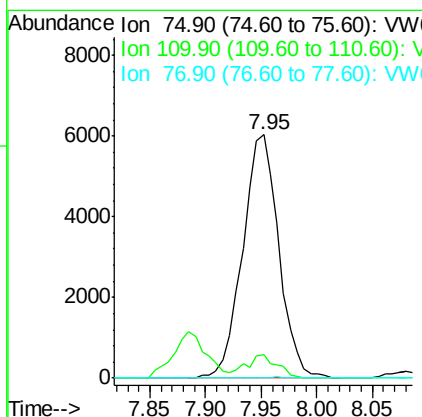
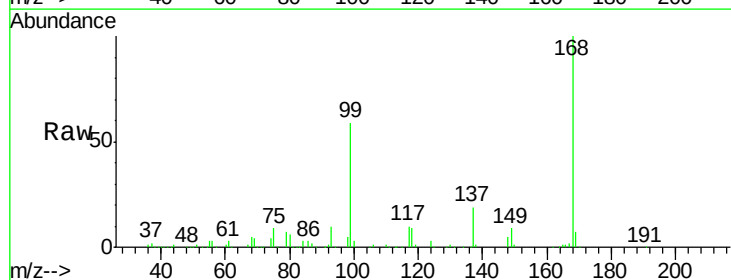
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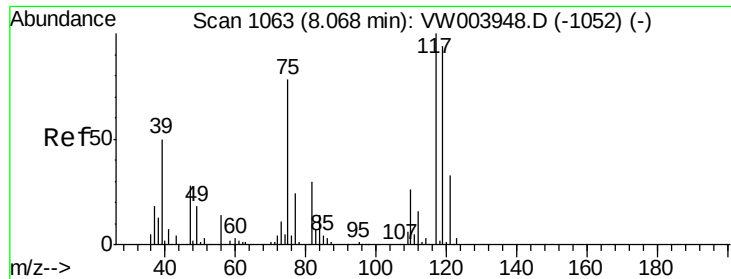
Tot Ion:113 Resp: 90450
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.3 121.9
 192 19.6 15.8 23.6



#36
 1,1-Dichloropropene
 Concen: 4.923 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.13 min
 Lab File: VW003989.D
 Acq: 17 Jul 2018 17:02

Tgt Ion: 75 Resp: 13578
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.0 51.0#
 77 0.1 24.9 37.3#

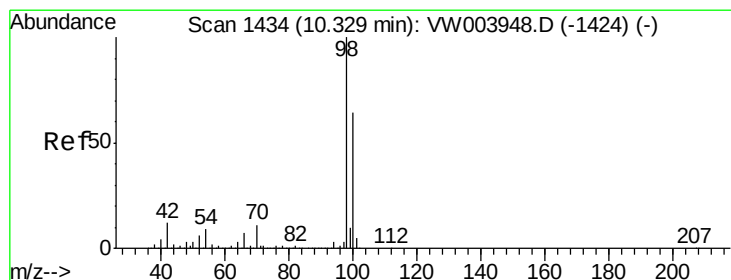
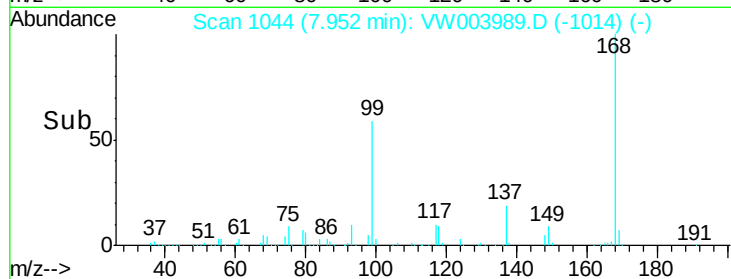
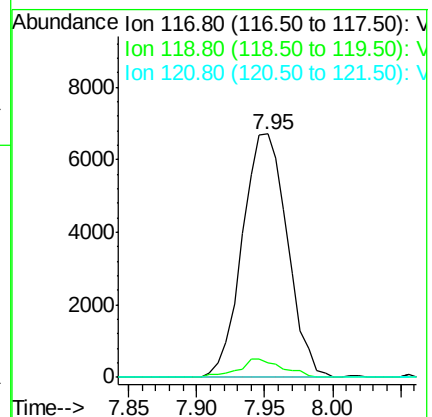
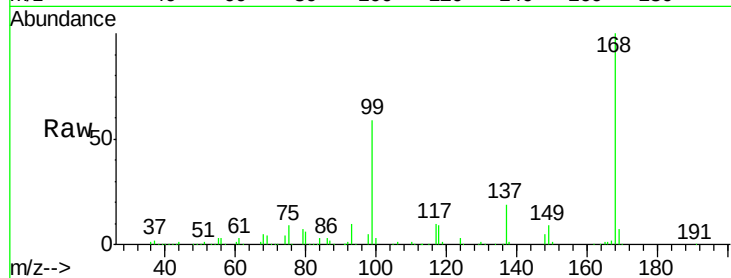




#38
Carbon Tetrachloride
Concen: 6.015 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.12 min
Lab File: VW003989.D
Acq: 17 Jul 2018 17:02

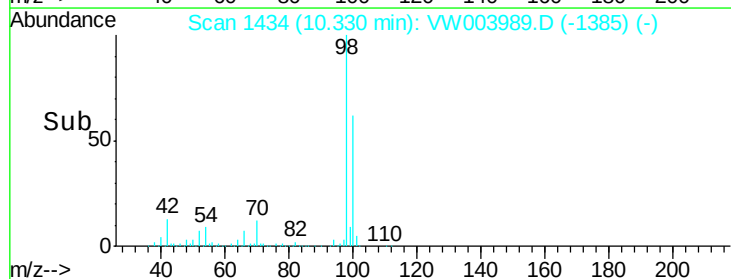
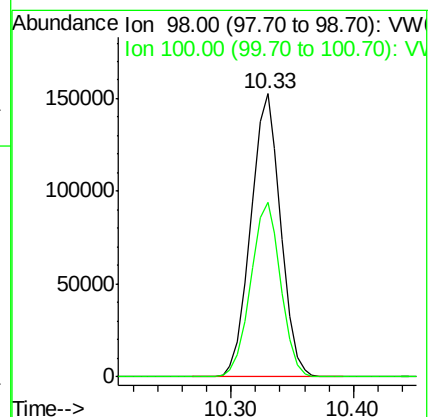
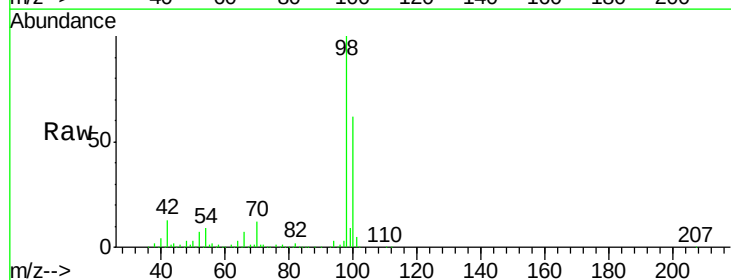
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MSVOA_W
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AU-05-071318-B

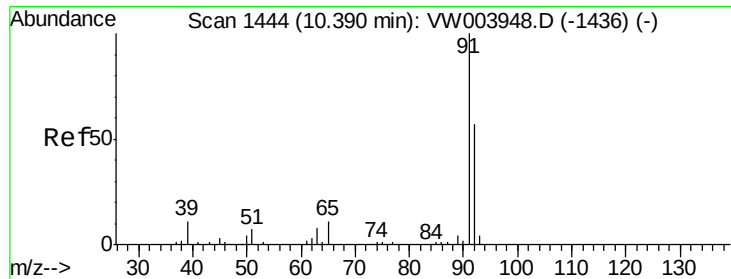
Tot Ion:117 Resp: 15501
Ion Ratio Lower Upper
117 100
119 6.1 75.3 112.9#
121 0.0 26.0 39.0#



#50
Toluene-d8
Concen: 38.822 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VW003989.D
Acq: 17 Jul 2018 17:02

Tgt Ion: 98 Resp: 259081
Ion Ratio Lower Upper
98 100
100 61.7 51.2 76.8





#52

Toluene

Concen: 1.018 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. 0.00 min

Lab File: VW003989.D

Acq: 17 Jul 2018 17:02

Instrument :

MSVOA_W

ClientSampleId :

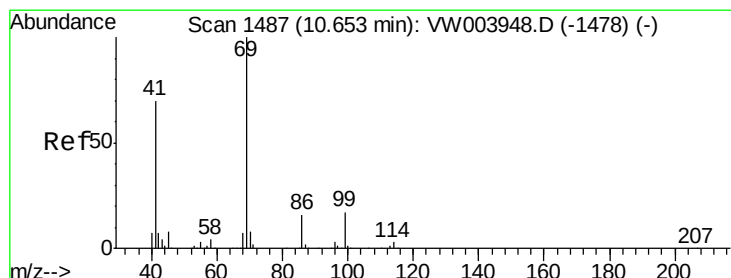
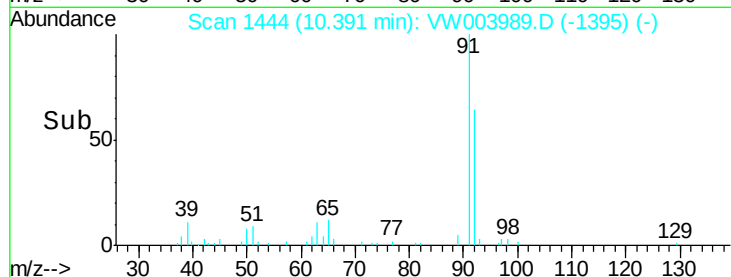
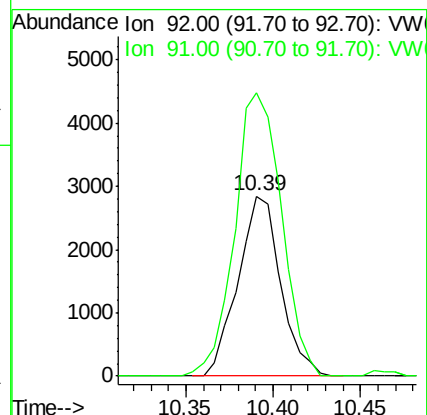
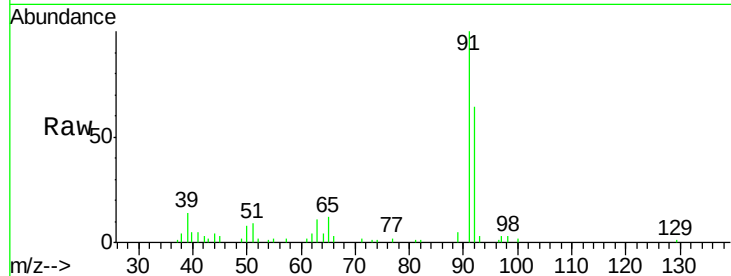
AU-05-071318-B

Tot Ion: 92 Resp: 4815

Ion Ratio Lower Upper

92 100

91 172.8 139.6 209.4



#56

Ethyl methacrylate

Concen: 3.088 ug/l

RT: 10.68 min Scan# 1492

Delta R.T. 0.03 min

Lab File: VW003989.D

Acq: 17 Jul 2018 17:02

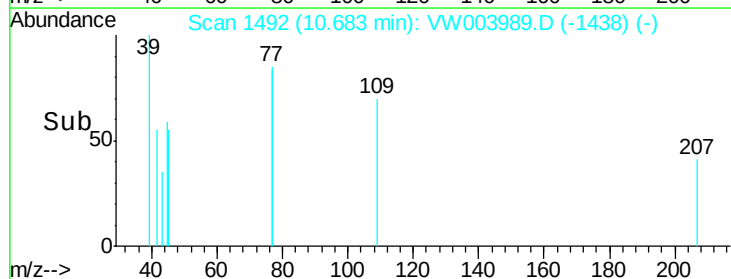
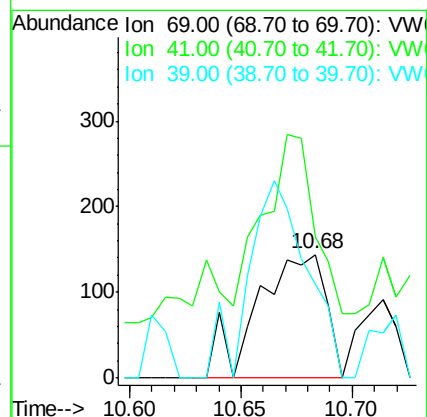
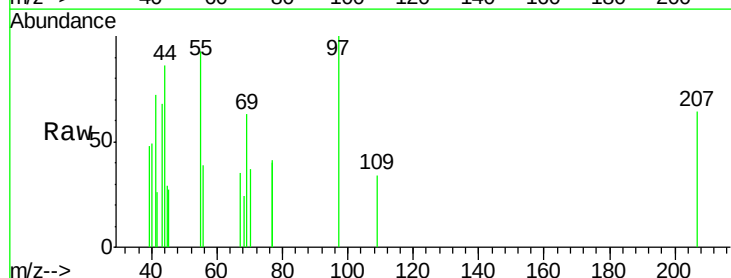
Tgt Ion: 69 Resp: 307

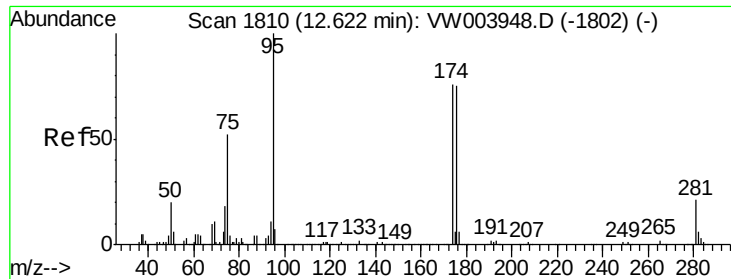
Ion Ratio Lower Upper

69 100

41 105.9 56.5 84.7#

39 138.1 30.2 45.4#

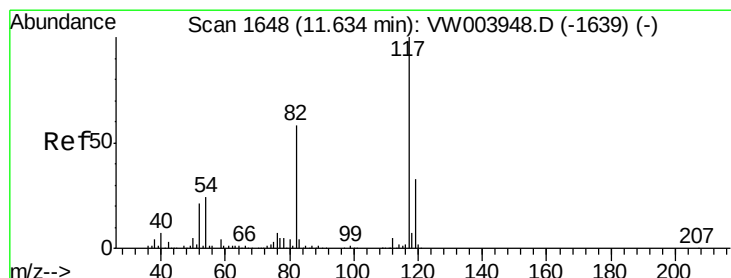
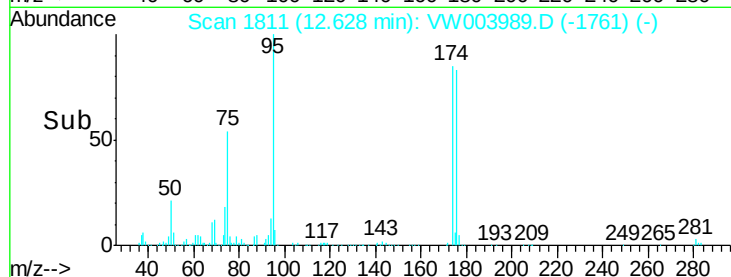
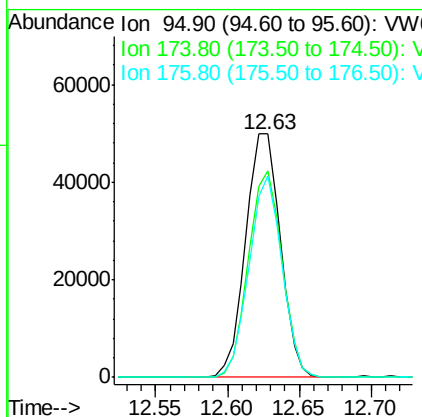
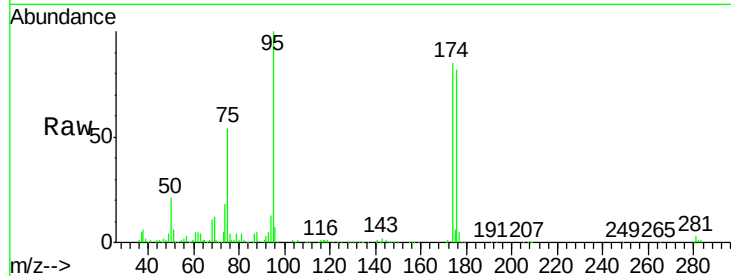




#62
4-Bromofluorobenzene
Concen: 34.383 ug/l
RT: 12.63 min Scan# 1811
Delta R.T. 0.01 min
Lab File: VW003989.D
Acq: 17 Jul 2018 17:02

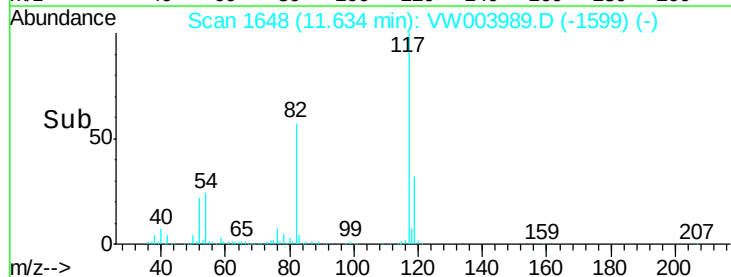
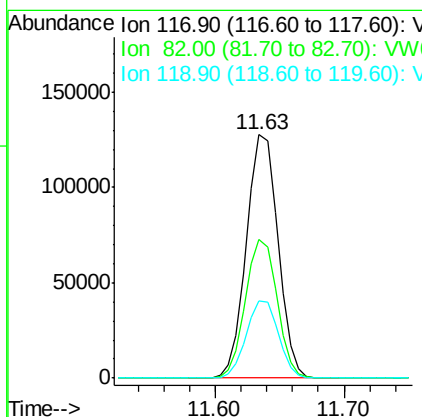
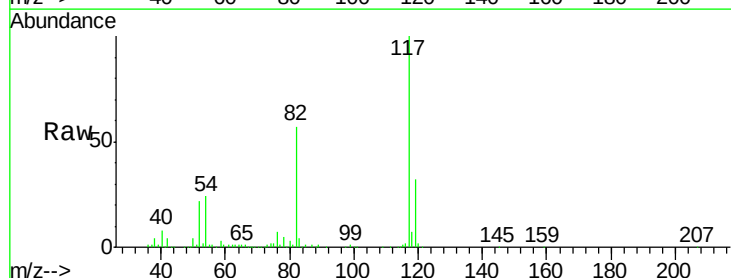
Instrument :
MSVOA_W
ClientSampleId :
AU-05-071318-B

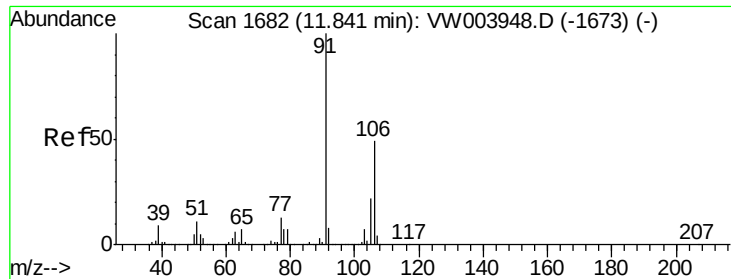
Tot Ion: 95 Resp: 82744
Ion Ratio Lower Upper
95 100
174 82.8 0.0 160.2
176 78.8 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. 0.00 min
Lab File: VW003989.D
Acq: 17 Jul 2018 17:02

Tgt Ion: 117 Resp: 216541
Ion Ratio Lower Upper
117 100
82 56.8 46.5 69.7
119 31.6 26.2 39.2

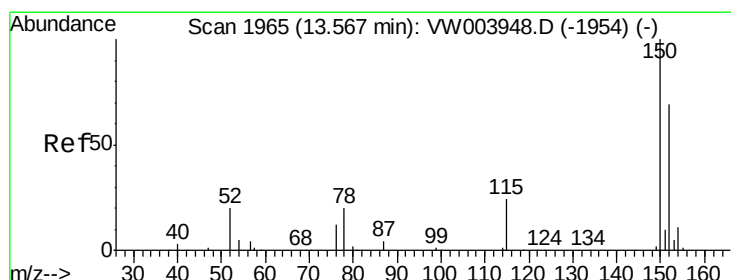
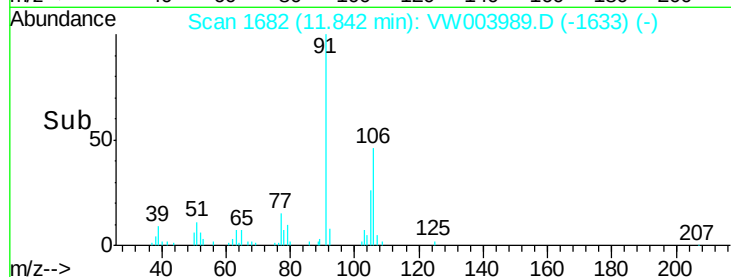
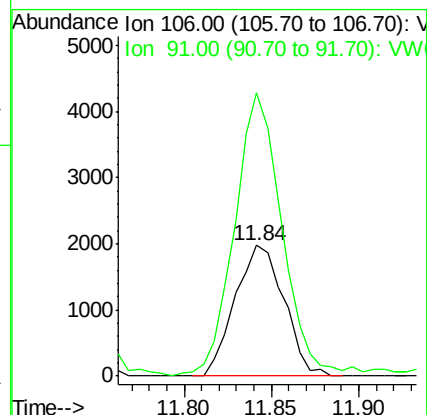
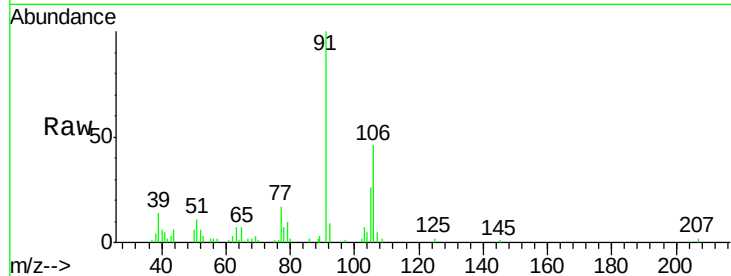




#68
m/p-Xvlenes
Concen: 1.239 ug/l
RT: 11.84 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VW003989.D
Acq: 17 Jul 2018 17:02

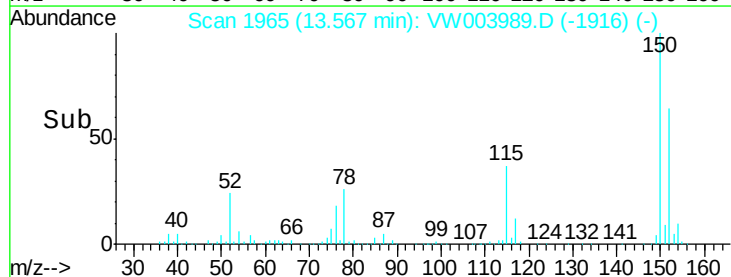
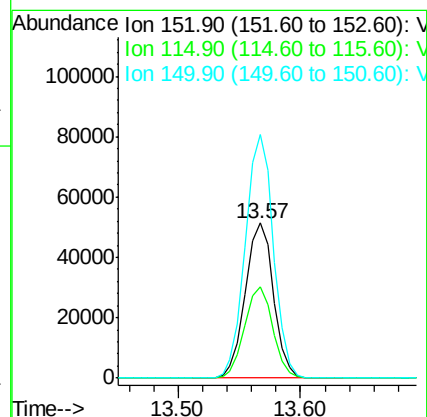
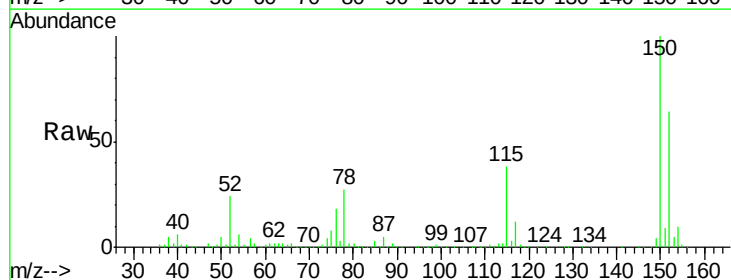
Instrument :
MSVOA_W
ClientSampleId :
AU-05-071318-B

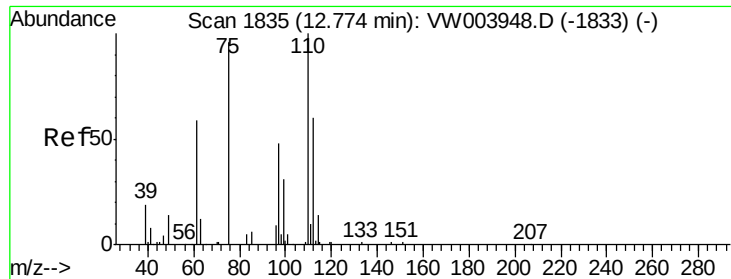
Tot Ion:106 Resp: 3829
Ion Ratio Lower Upper
106 100
91 216.9 164.2 246.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VW003989.D
Acq: 17 Jul 2018 17:02

Tgt Ion:152 Resp: 82270
Ion Ratio Lower Upper
152 100
115 59.5 29.2 87.6
150 156.1 0.0 345.2





#76

1,2,3-Trichloropropane

Concen: 54.553 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003989.D

Acq: 17 Jul 2018 17:02

Instrument :

MSVOA_W

ClientSampleId :

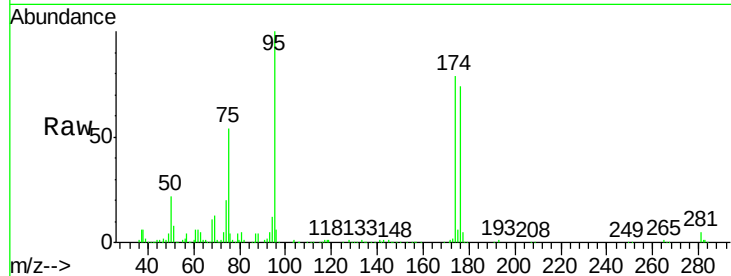
AU-05-071318-B

Tot Ion: 75 Resp: 44556

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

30000

25000

20000

15000

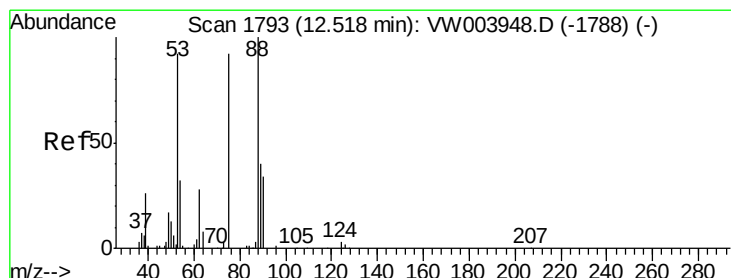
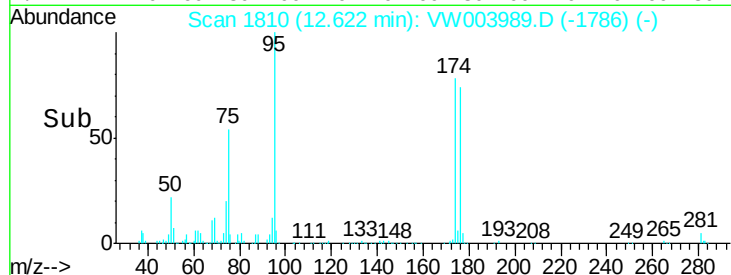
10000

5000

0

12.55 12.60 12.65 12.70

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 120.669 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003989.D

Acq: 17 Jul 2018 17:02

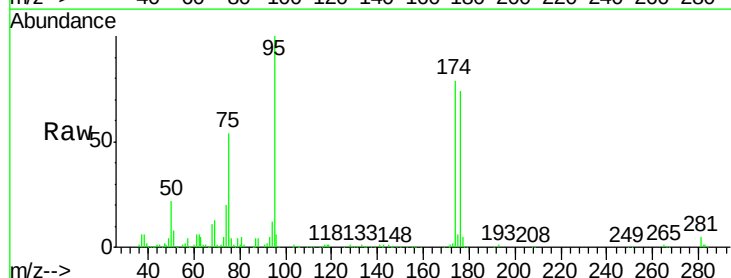
Tgt Ion: 75 Resp: 44556

Ion Ratio Lower Upper

75 100

53 0.5 77.6 116.4#

89 0.1 36.6 54.8#



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

12.62

30000

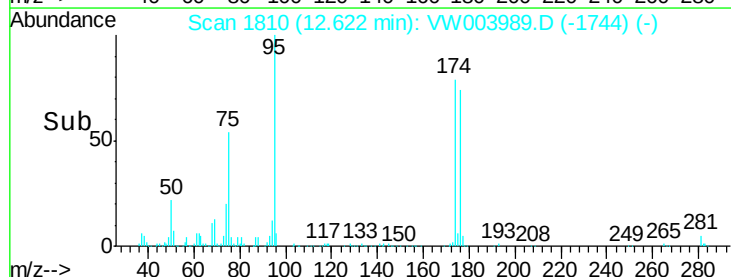
20000

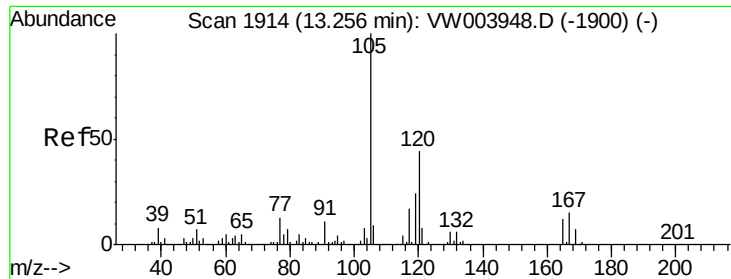
10000

0

12.55 12.60 12.65 12.70

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 2.434 ug/l

RT: 13.26 min Scan# 1914

Delta R.T. 0.00 min

Lab File: VW003989.D

Acq: 17 Jul 2018 17:02

Instrument :

MSVOA_W

ClientSampleId :

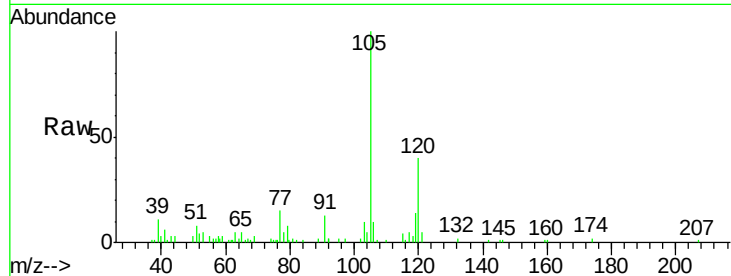
AU-05-071318-B

Tot Ion:105 Resp: 12253

Ion Ratio Lower Upper

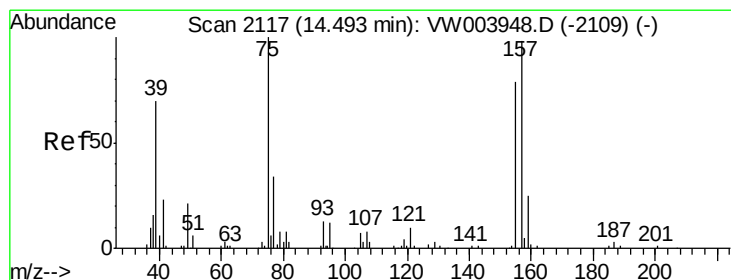
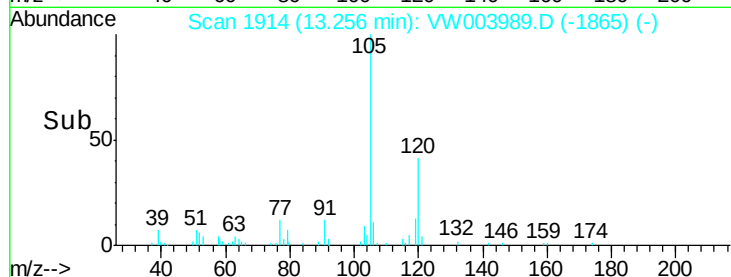
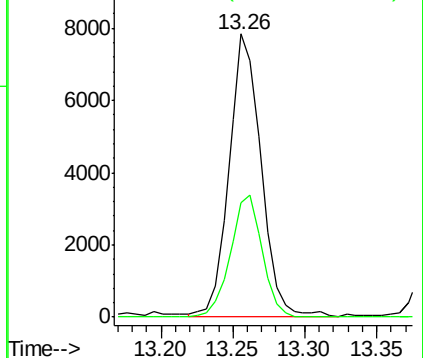
105 100

120 42.4 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 12.585 ug/l

RT: 14.41 min Scan# 2104

Delta R.T. -0.08 min

Lab File: VW003989.D

Acq: 17 Jul 2018 17:02

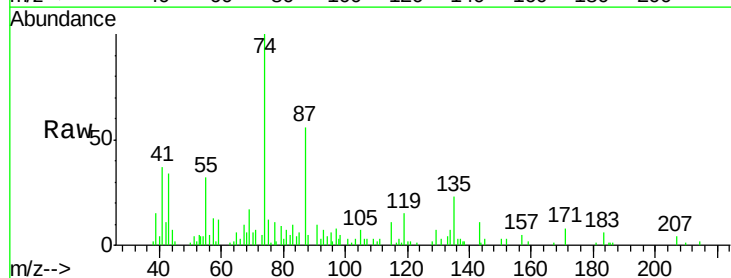
Tgt Ion: 75 Resp: 2516

Ion Ratio Lower Upper

75 100

155 1.0 39.4 118.1#

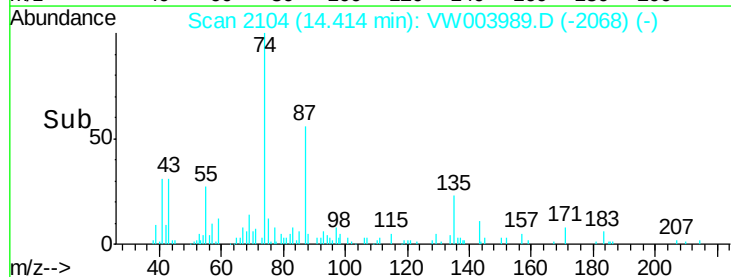
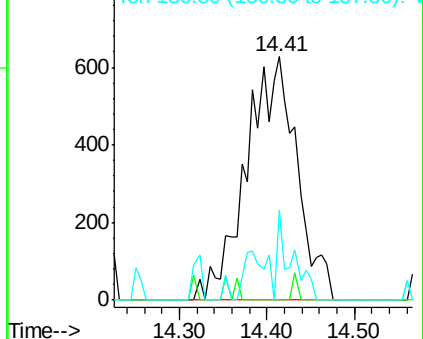
157 5.7 51.8 155.4#

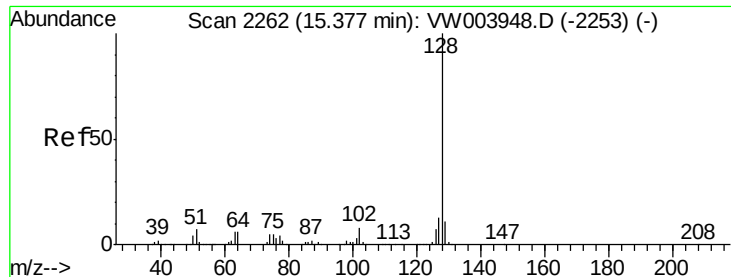


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.204 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VW003989.D

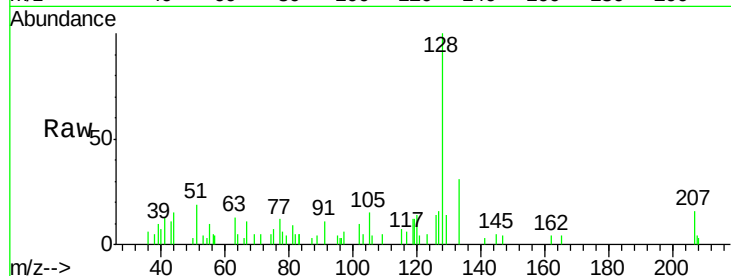
Acq: 17 Jul 2018 17:02

Instrument :

MSVOA_W

ClientSampleId :

AU-05-071318-B



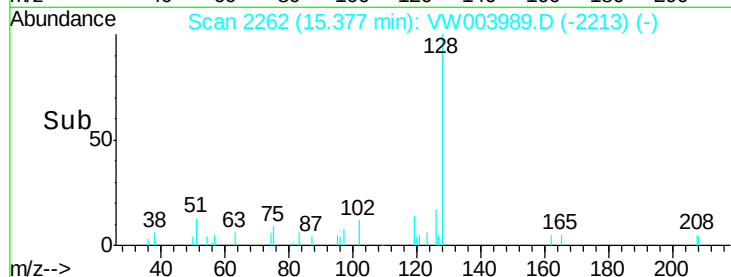
Tot Ion:128 Resp: 3864

Ion Ratio Lower Upper

128 100

127 14.2 10.7 16.1

129 12.7 8.7 13.1



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

