

Data File : VW008205.D
Acq On : 11 Jan 2019 20:10
Operator : SY/VA
Sample : K1102-02RE
Misc : 5.01G/5ML/MSVOA_W/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
CPSB-18(20-25)

Quant Time: Jan 12 00:17:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 04:40:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	111793	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	194028	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	170640	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	78774	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	60981	48.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.06%	
35) Dibromofluoromethane	7.88	113	59507	52.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.16%	
50) Toluene-d8	10.32	98	240353	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
62) 4-Bromofluorobenzene	12.62	95	81445	47.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.68%	

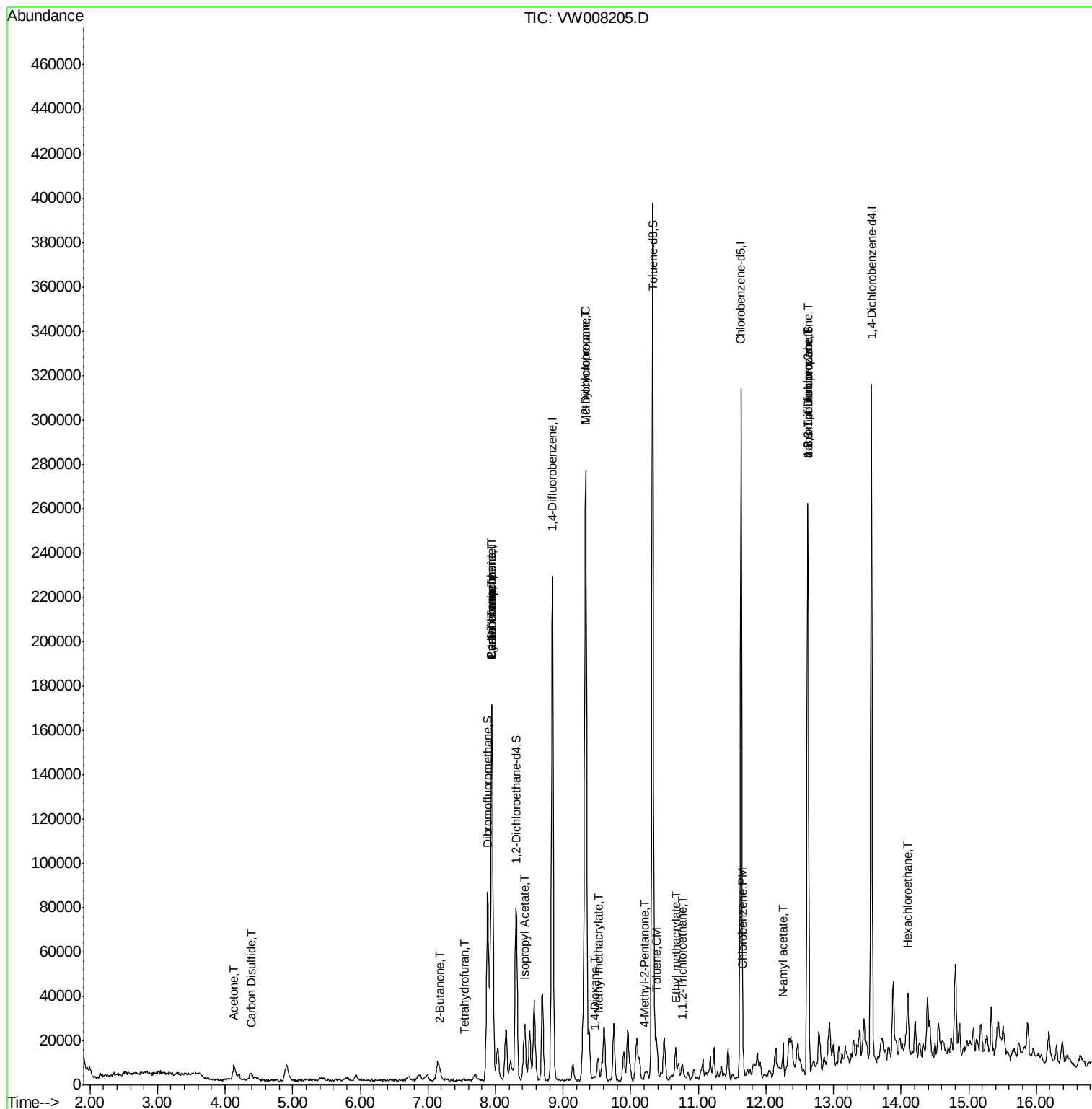
Target Compounds				Qvalue		
11) Tert butyl alcohol	5.26	59	105	Below Cal	#	100
13) Acrolein	3.91	56	72	Below Cal		95
16) Acetone	4.13	43	12461	37.169	ug/l	92
17) Carbon Disulfide	4.38	76	6723	1.758	ug/l	95
20) Methylene Chloride	4.91	84	5699	Below Cal		92
25) 2-Butanone	7.18	43	3376	9.657	ug/l	90
29) Tetrahydrofuran	7.54	42	319	1.366	ug/l #	57
31) Cyclohexane	7.95	56	14442	5.462	ug/l #	83
36) 1,1-Dichloropropene	7.95	75	9426	4.716	ug/l #	54
38) Carbon Tetrachloride	7.95	117	11090	6.062	ug/l #	19
39) Methylcyclohexane	9.34	83	112235	44.287	ug/l	92
43) Isopropyl Acetate	8.43	43	4696	2.933	ug/l #	51
45) 1,2-Dichloropropane	9.34	63	1415	1.053	ug/l #	1
48) Methyl methacrylate	9.52	41	1764	2.335	ug/l #	1
49) 1,4-Dioxane	9.46	88	67	6.311	ug/l #	1
51) 4-Methyl-2-Pentanone	10.22	43	1464	1.889	ug/l	95
52) Toluene	10.39	92	7246	2.093	ug/l	98
55) 1,1,2-Trichloroethane	10.76	97	2636	2.844	ug/l #	25
56) Ethyl methacrylate	10.66	69	1788	1.558	ug/l #	36
65) Chlorobenzene	11.66	112	4188	1.158	ug/l	89
74) N-amyl acetate	12.26	43	2820	2.059	ug/l #	42
76) 1,2,3-Trichloropropane	12.62	75	39517	55.029	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	39517	128.146	ug/l #	11
90) Hexachloroethane	14.10	117	1551	1.615	ug/l #	19

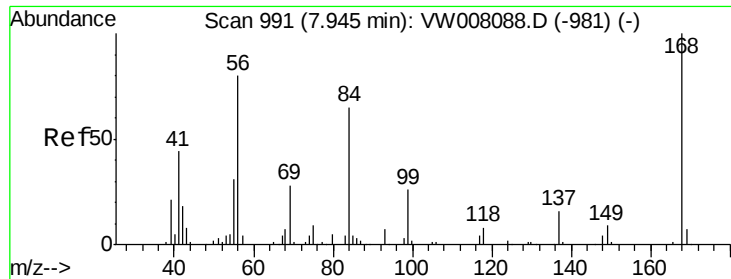
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

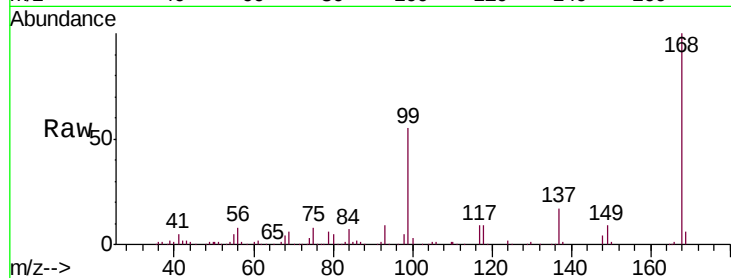
CPSB-18(20-25)

Tgt Ion:168 Resp: 111793

Ion Ratio Lower Upper

168 100

99 55.0 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

60000

50000

40000

30000

20000

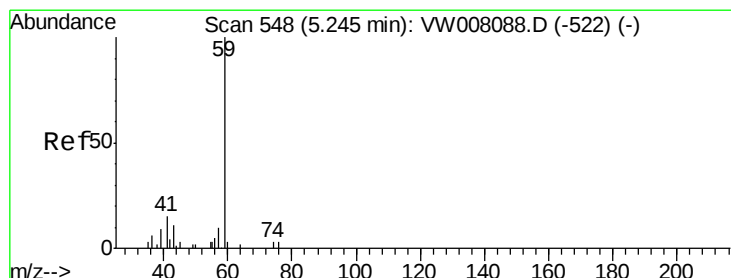
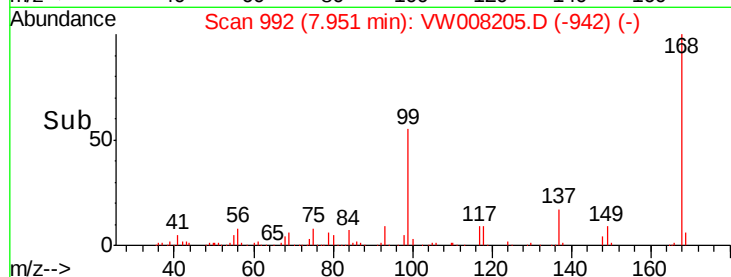
10000

0

7.90

8.00

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.26 min Scan# 550

Delta R.T. 0.01 min

Lab File: VW008205.D

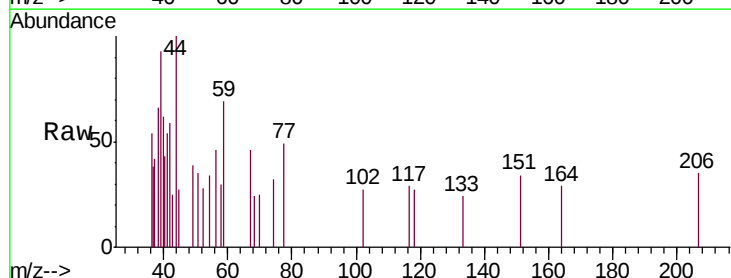
Acq: 11 Jan 2019 20:10

Tgt Ion: 59 Resp: 105

Ion Ratio Lower Upper

59 100

57 53.3 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

150

100

50

0

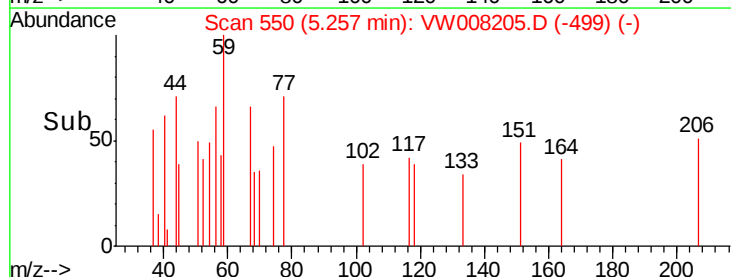
5.24

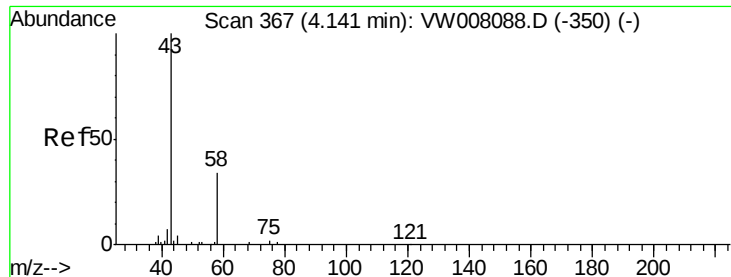
5.25

5.26

5.27

Time-->





#16

Acetone

Concen: 37.169 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

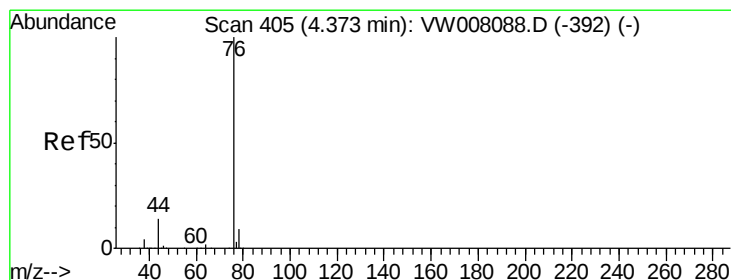
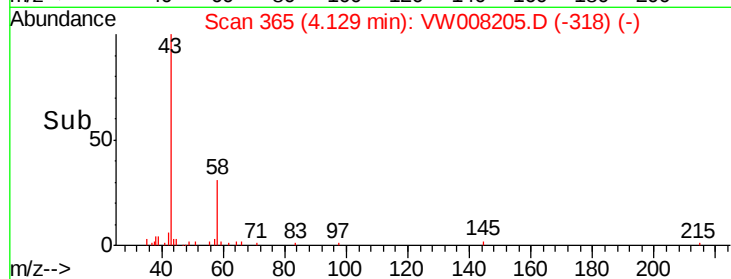
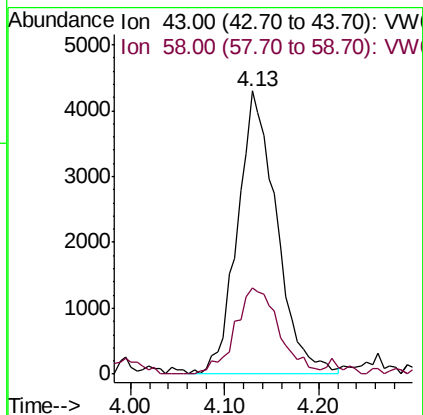
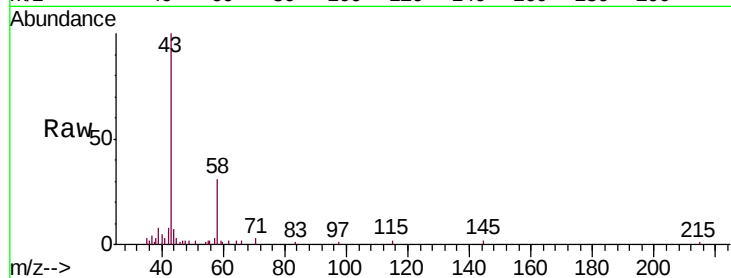
CPSB-18(20-25)

Tgt Ion: 43 Resp: 12461

Ion Ratio Lower Upper

43 100

58 29.6 27.5 41.3



#17

Carbon Disulfide

Concen: 1.758 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW008205.D

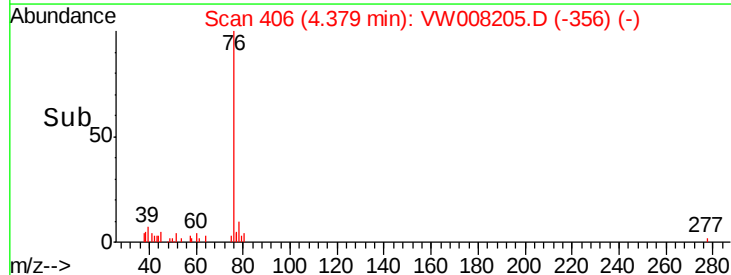
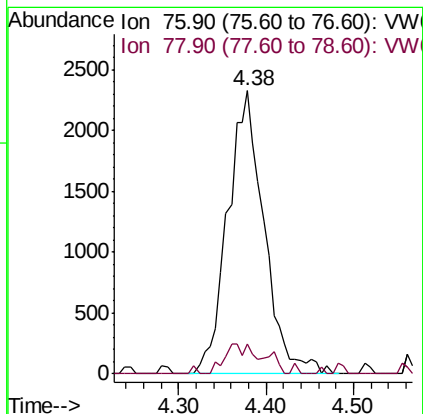
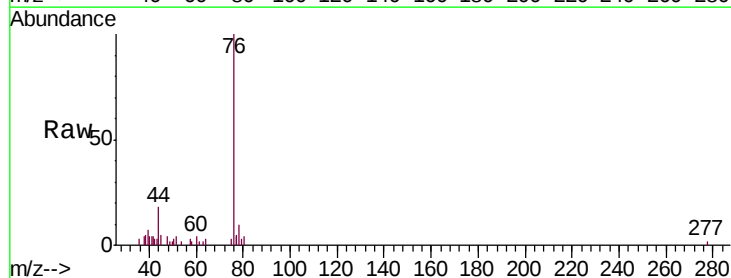
Acq: 11 Jan 2019 20:10

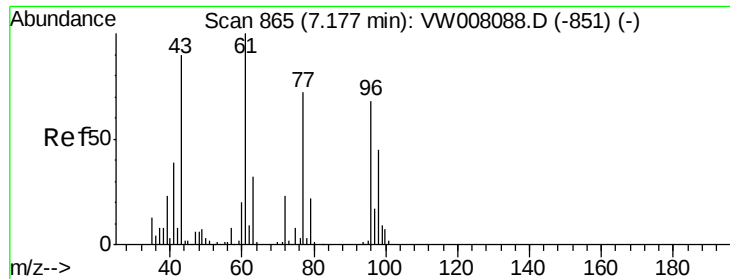
Tgt Ion: 76 Resp: 6723

Ion Ratio Lower Upper

76 100

78 10.5 7.0 10.6





#25

2-Butanone

Concen: 9.657 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

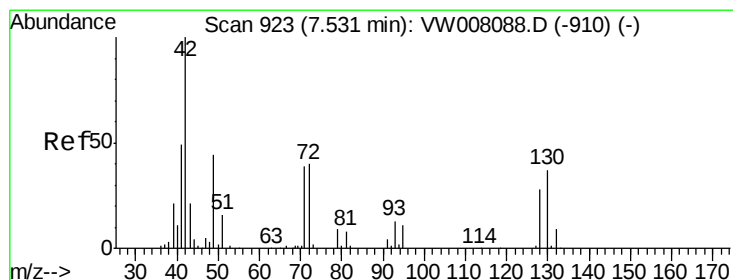
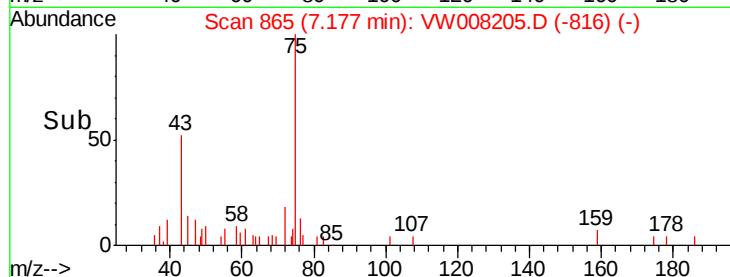
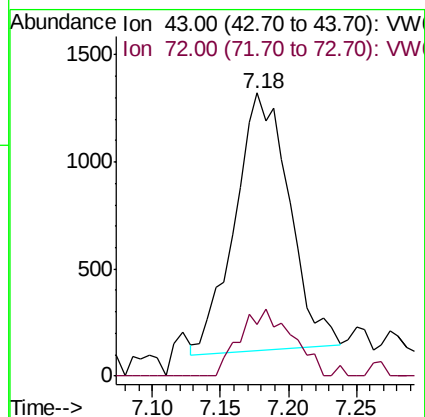
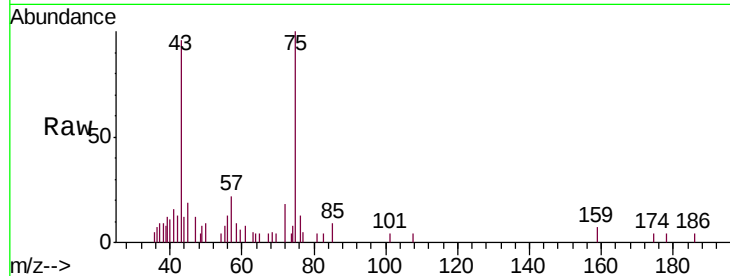
Instrument :
MSVOA_W
ClientSampled :
CPSB-18(20-25)

Tgt Ion: 43 Resp: 3376

Ion Ratio Lower Upper

43 100

72 20.7 20.5 30.7



#29

Tetrahydrofuran

Concen: 1.366 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

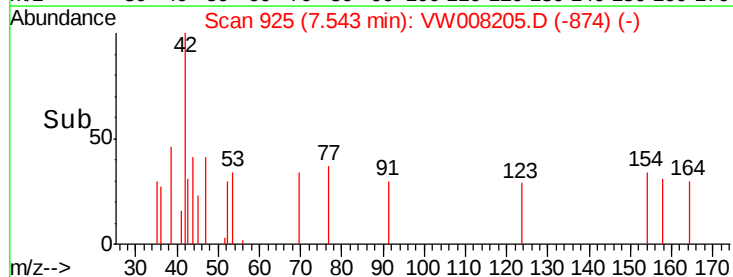
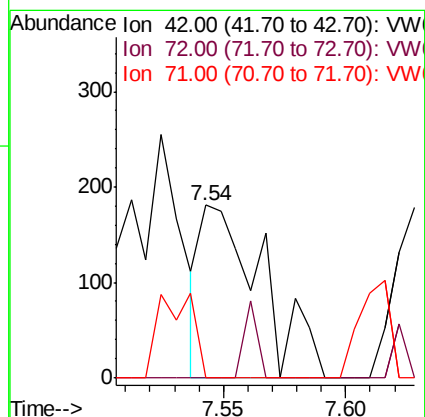
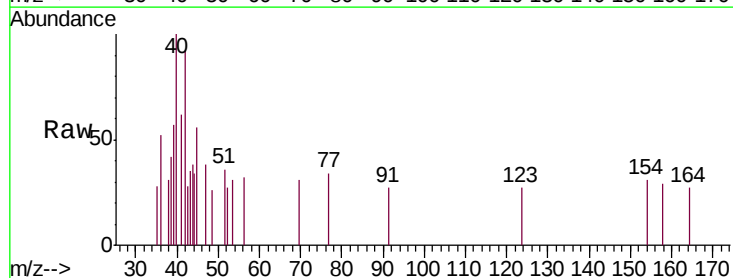
Tgt Ion: 42 Resp: 319

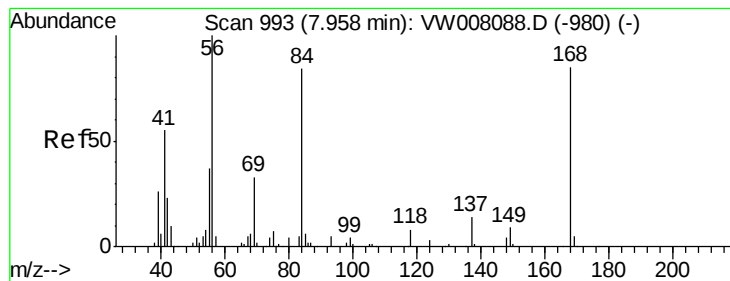
Ion Ratio Lower Upper

42 100

72 0.0 32.4 48.6#

71 27.0 31.3 46.9#





#31

Cyclohexane

Concen: 5.462 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

CPSB-18(20-25)

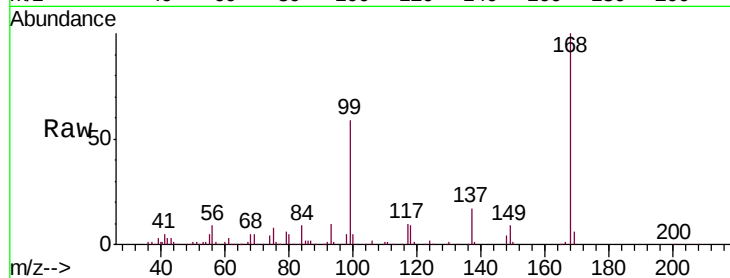
Tgt Ion: 56 Resp: 14442

Ion Ratio Lower Upper

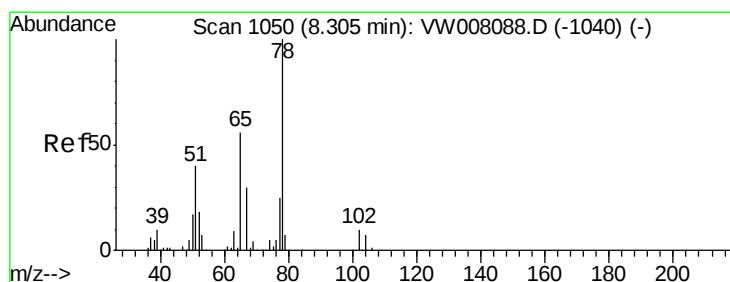
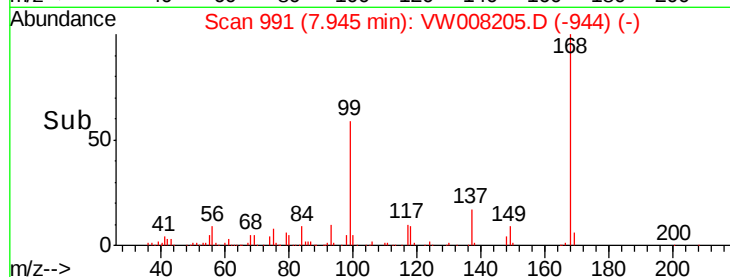
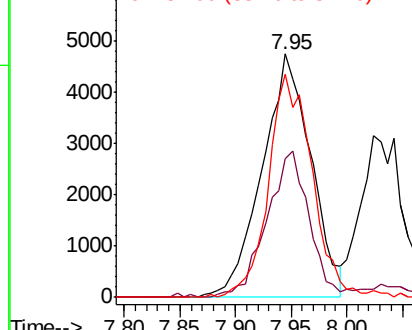
56 100

69 55.7 26.2 39.4#

84 91.8 67.4 101.2



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: 48.534 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008205.D

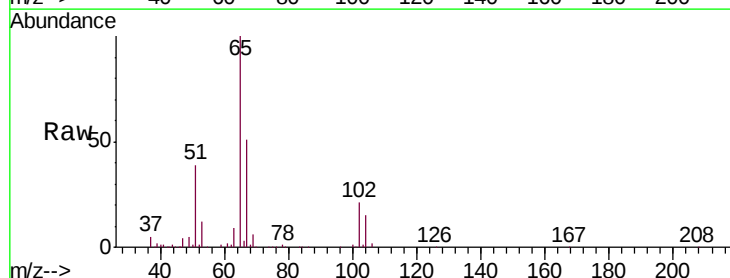
Acq: 11 Jan 2019 20:10

Tgt Ion: 65 Resp: 60981

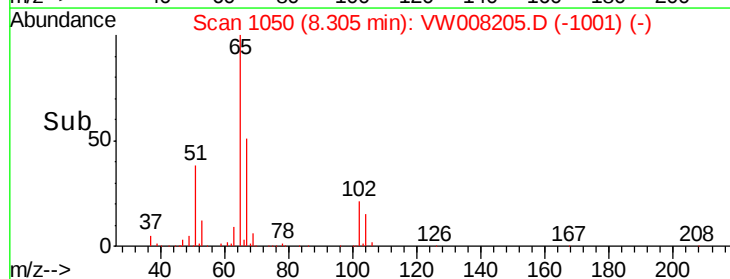
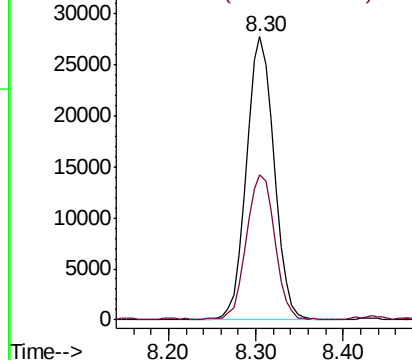
Ion Ratio Lower Upper

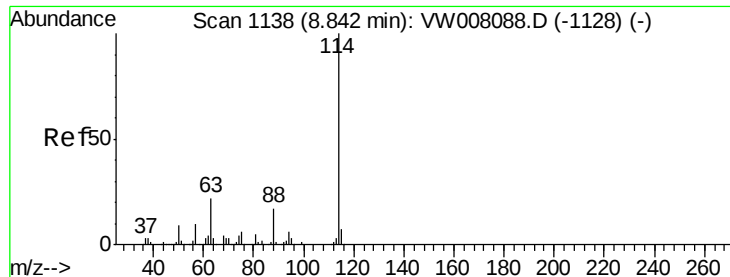
65 100

67 53.0 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

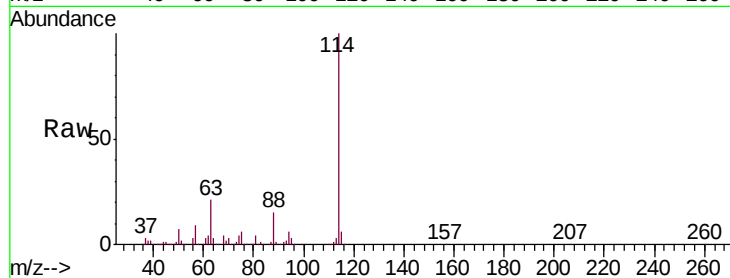




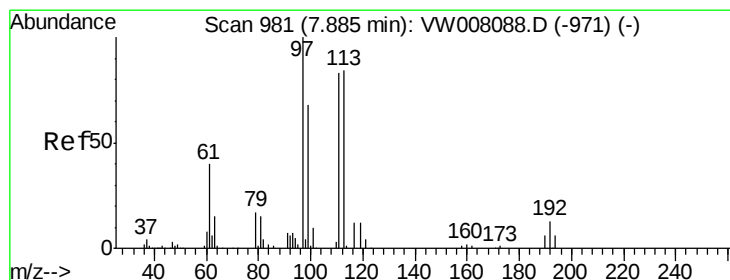
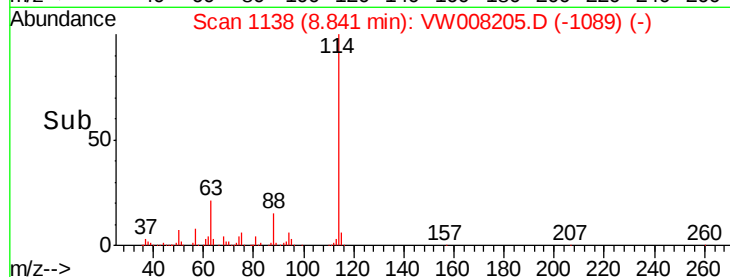
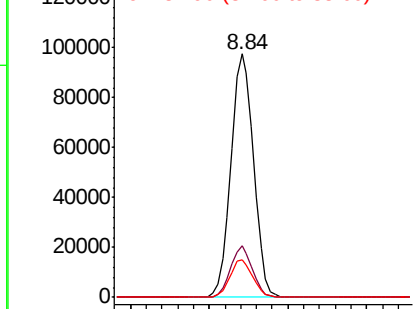
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008205.D
 Acq: 11 Jan 2019 20:10

Instrument :
 MSVOA_W
 ClientSampleId :
 CPSB-18(20-25)

Tgt Ion:114 Resp: 194028
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 43.4
 88 15.4 0.0 33.4

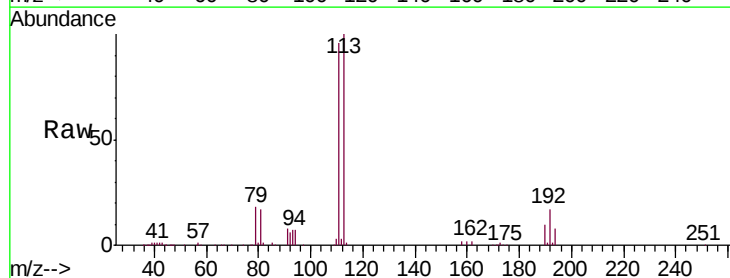


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

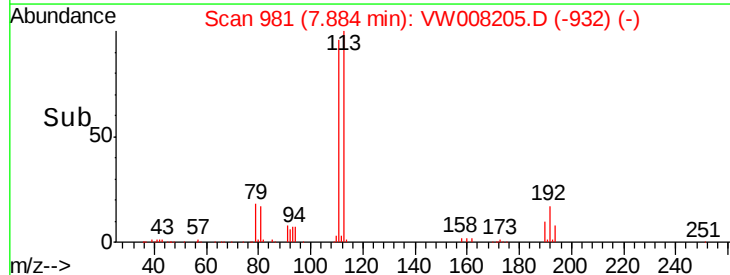
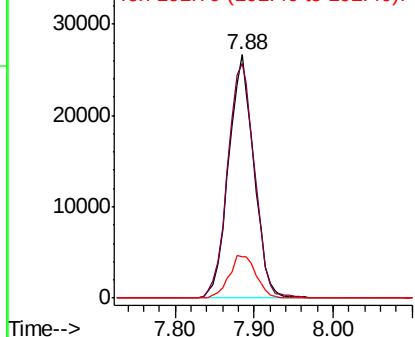


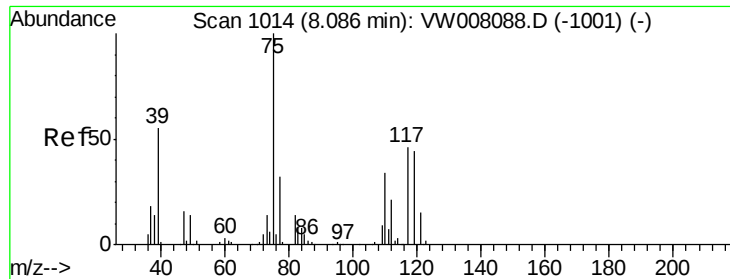
#35
 Dibromofluoromethane
 Concen: 52.584 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW008205.D
 Acq: 11 Jan 2019 20:10

Tgt Ion:113 Resp: 59507
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.8 122.8
 192 18.7 12.8 19.2



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

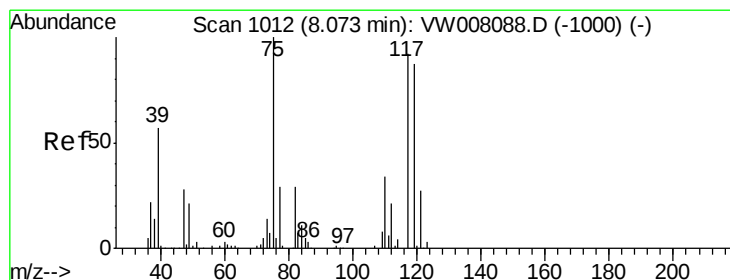
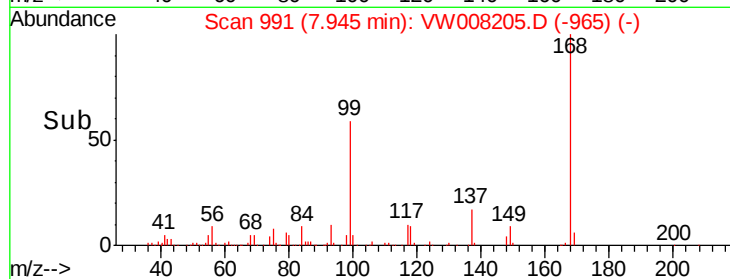
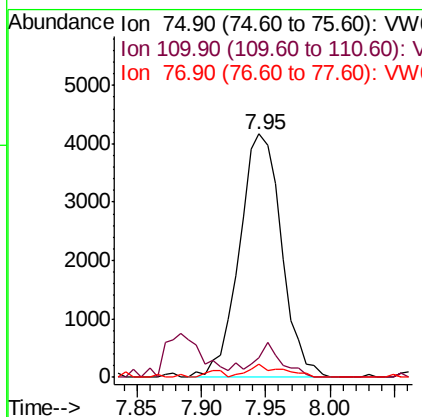
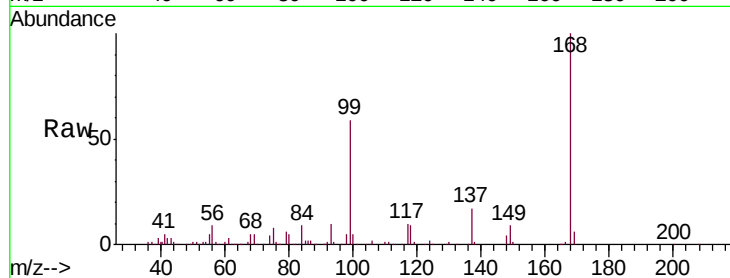




#36
 1,1-Dichloropropene
 Concen: 4.716 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.14 min
 Lab File: VW008205.D
 Acq: 11 Jan 2019 20:10

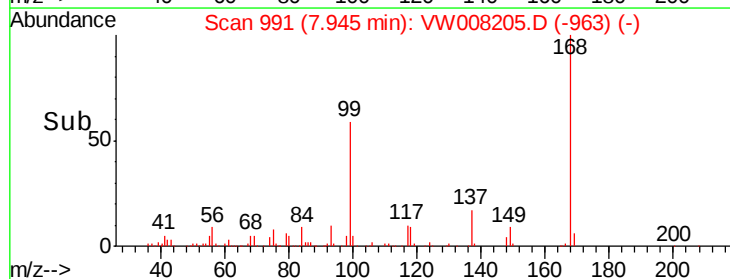
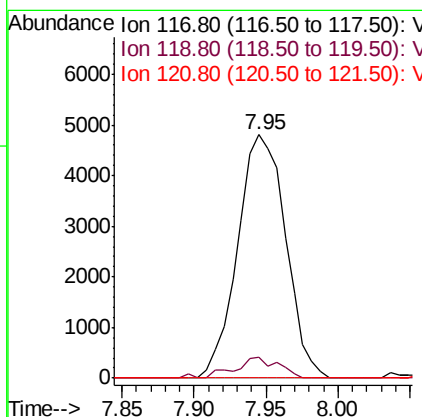
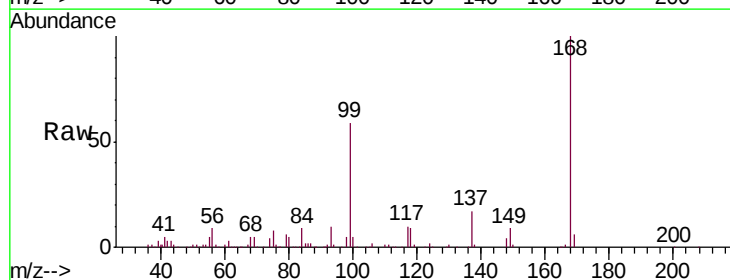
Instrument :
 MSVOA_W
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 CPSB-18(20-25)

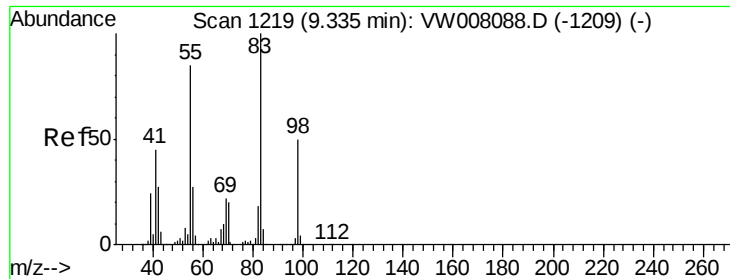
Tgt Ion: 75 Resp: 9426
 Ion Ratio Lower Upper
 75 100
 110 9.8 17.1 51.3#
 77 4.4 25.5 38.3#



#38
 Carbon Tetrachloride
 Concen: 6.062 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008205.D
 Acq: 11 Jan 2019 20:10

Tgt Ion: 117 Resp: 11090
 Ion Ratio Lower Upper
 117 100
 119 8.6 75.8 113.8#
 121 0.0 23.7 35.5#

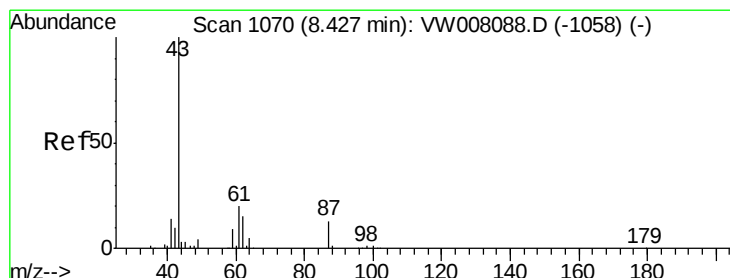
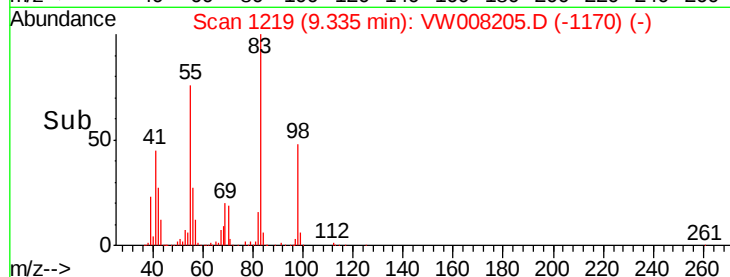
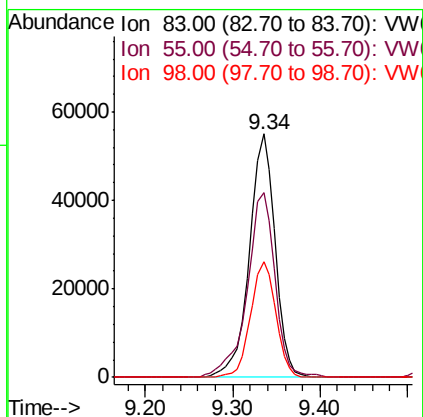
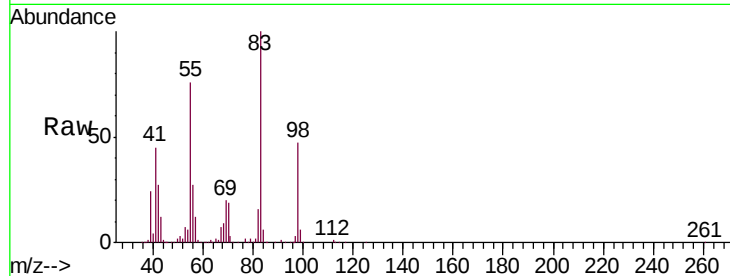




#39
Methylcyclohexane
Concen: 44.287 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW008205.D
Acq: 11 Jan 2019 20:10

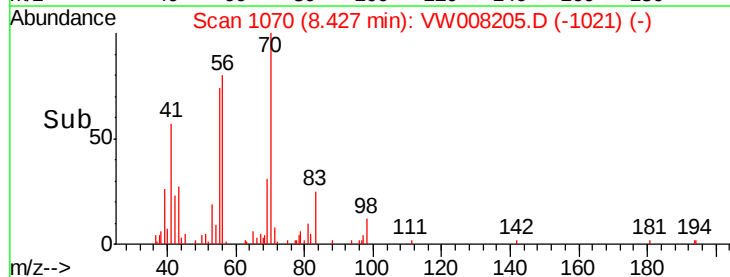
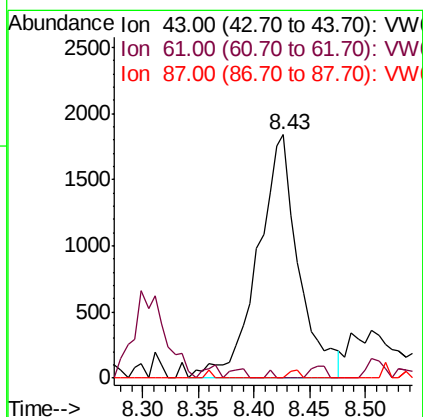
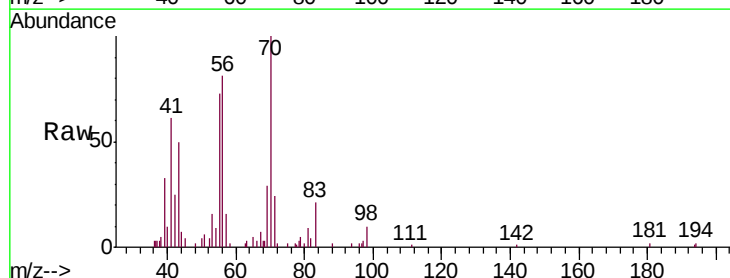
Instrument :
MSVOA_W
ClientSampleId :
CPSB-18(20-25)

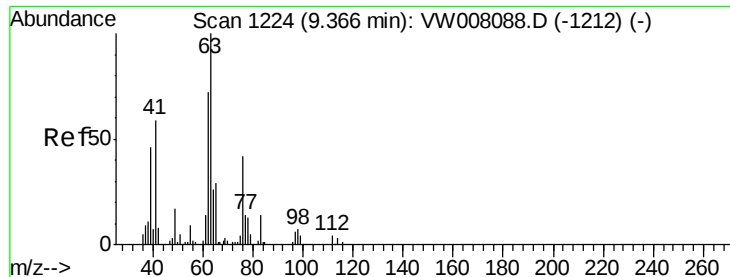
Tgt Ion: 83 Resp: 112235
Ion Ratio Lower Upper
83 100
55 75.8 67.8 101.6
98 47.5 40.2 60.4



#43
Isopropyl Acetate
Concen: 2.933 ug/l
RT: 8.43 min Scan# 1070
Delta R.T. -0.00 min
Lab File: VW008205.D
Acq: 11 Jan 2019 20:10

Tgt Ion: 43 Resp: 4696
Ion Ratio Lower Upper
43 100
61 0.0 24.8 37.2#
87 0.9 10.4 15.6#





#45

1,2-Dichloropropane

Concen: 1.053 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.03 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

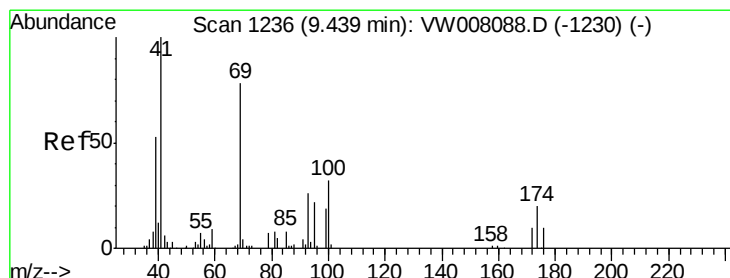
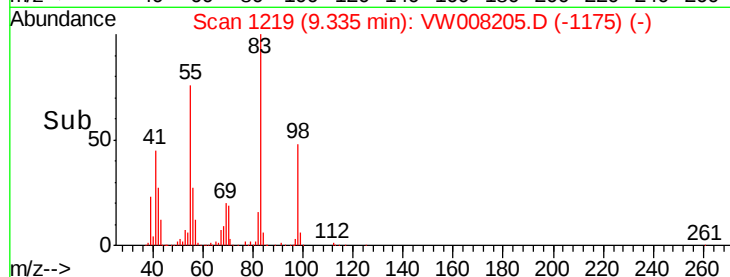
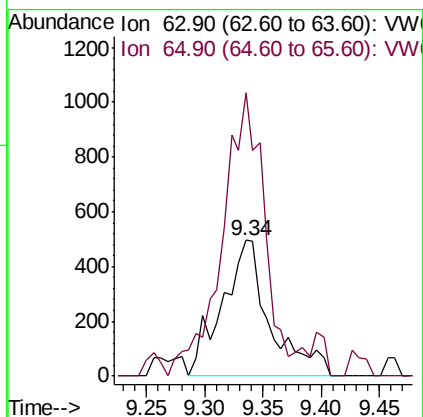
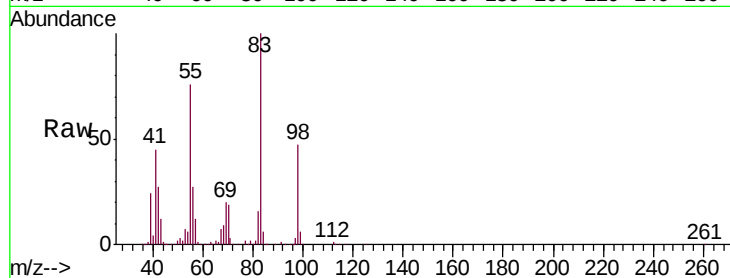
CPSB-18(20-25)

Tgt Ion: 63 Resp: 1415

Ion Ratio Lower Upper

63 100

65 208.7 23.3 34.9#



#48

Methyl methacrylate

Concen: 2.335 ug/l

RT: 9.52 min Scan# 1249

Delta R.T. 0.08 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

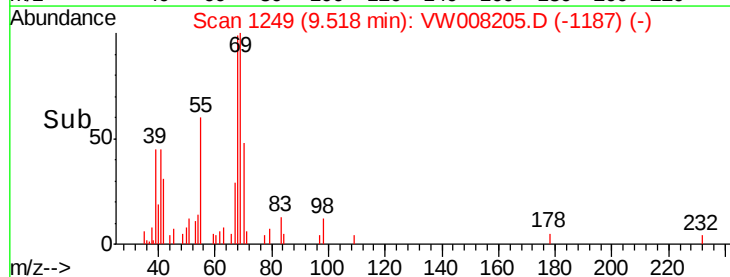
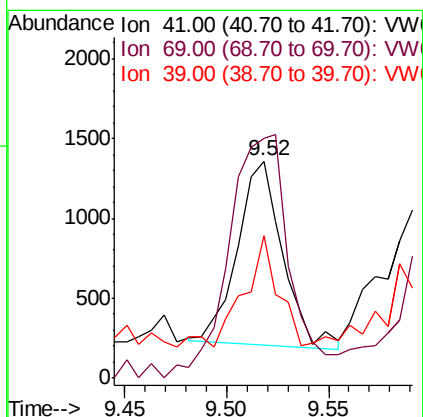
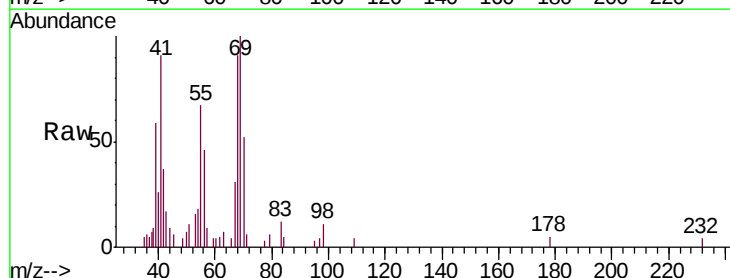
Tgt Ion: 41 Resp: 1764

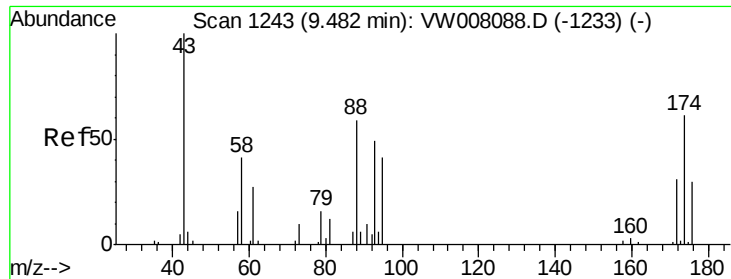
Ion Ratio Lower Upper

41 100

69 179.9 61.9 92.9#

39 0.0 43.0 64.4#

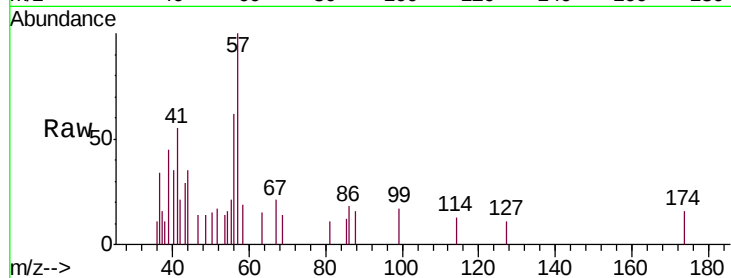




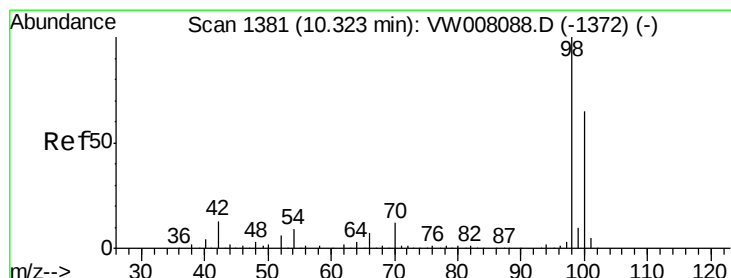
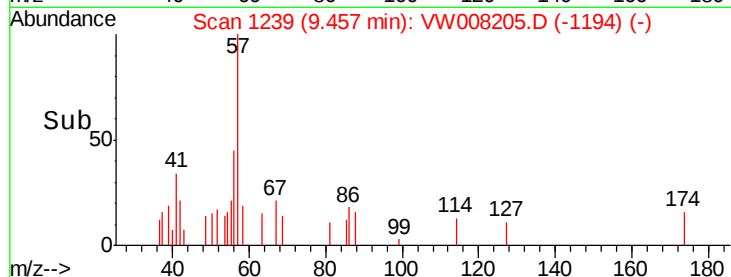
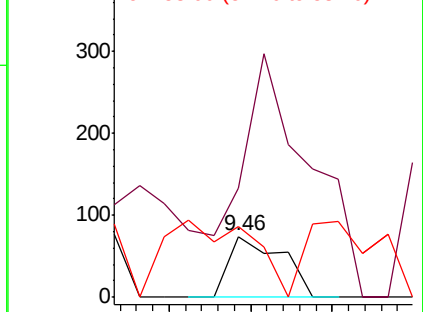
#49
1,4-Dioxane
Concen: 6.311 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. -0.02 min
Lab File: VW008205.D
Acq: 11 Jan 2019 20:10

Instrument :
MSVOA_W
ClientSampleId :
CPSB-18(20-25)

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 210.4 61.7 92.5#

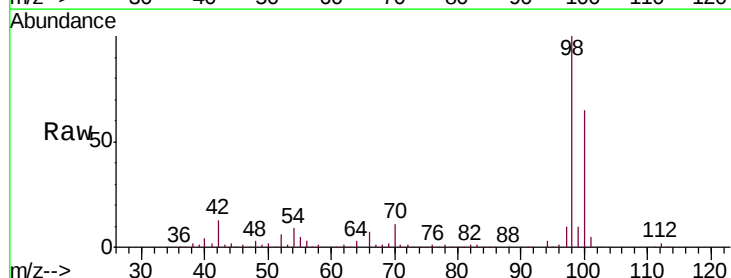


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

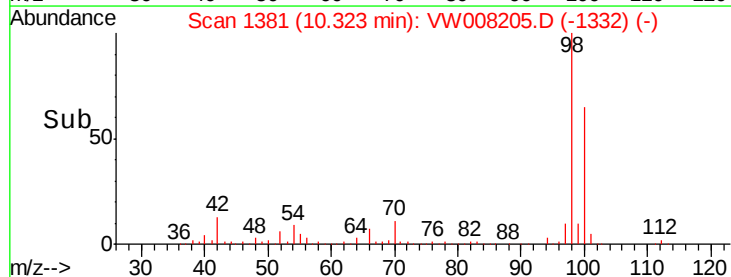
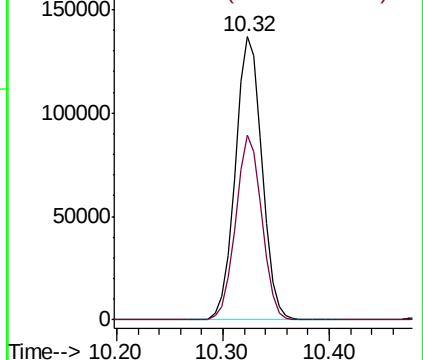


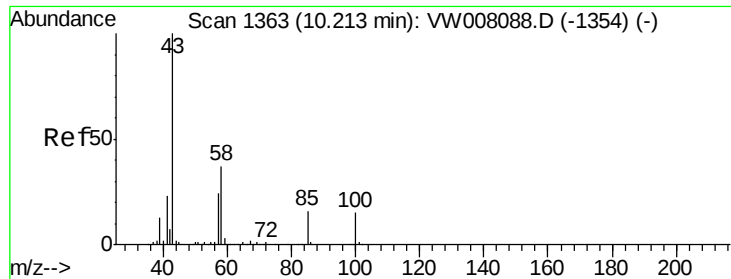
#50
Toluene-d8
Concen: 50.613 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW008205.D
Acq: 11 Jan 2019 20:10

Tgt Ion: 98 Resp: 240353
Ion Ratio Lower Upper
98 100
100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

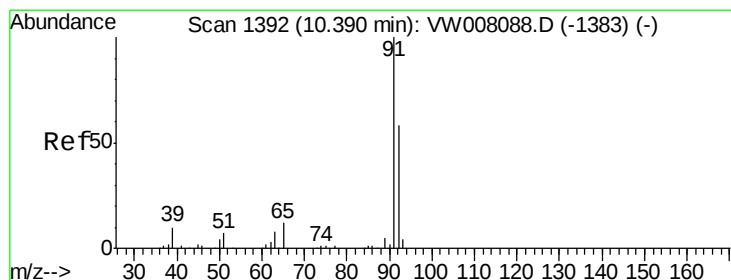
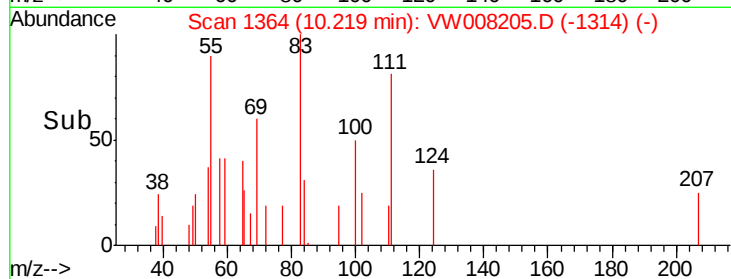
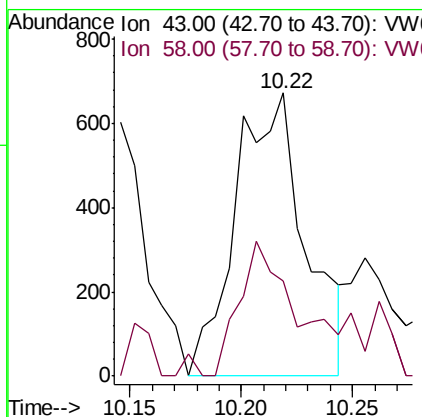
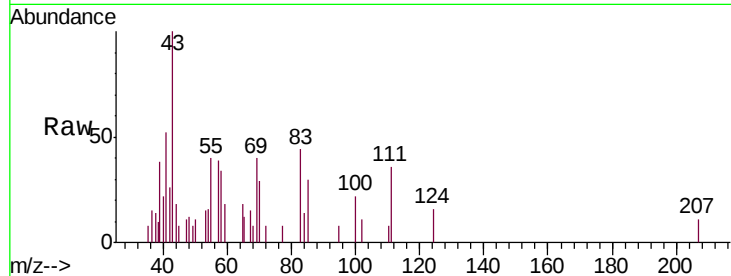




#51
 4-Methyl-2-Pentanone
 Concen: 1.889 ug/l
 RT: 10.22 min Scan# 1364
 Delta R.T. 0.01 min
 Lab File: VW008205.D
 Acq: 11 Jan 2019 20:10

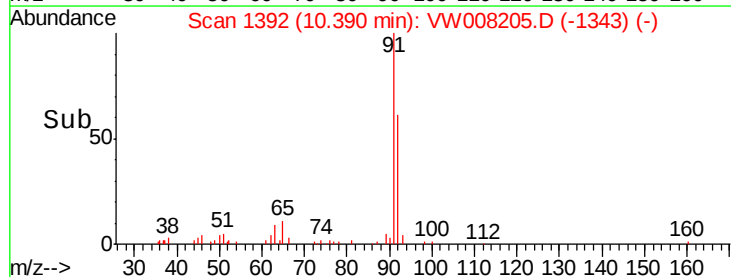
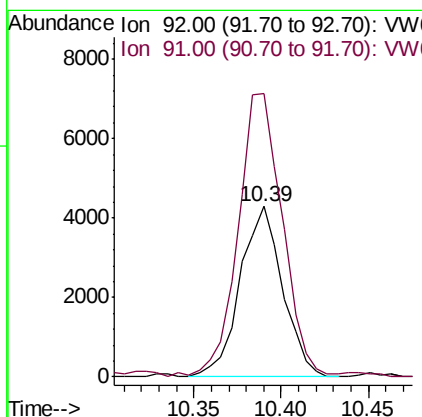
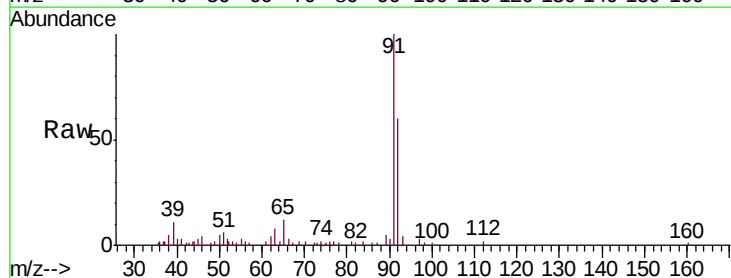
Instrument :
 MSVOA_W
 ClientSampleId :
 CPSB-18(20-25)

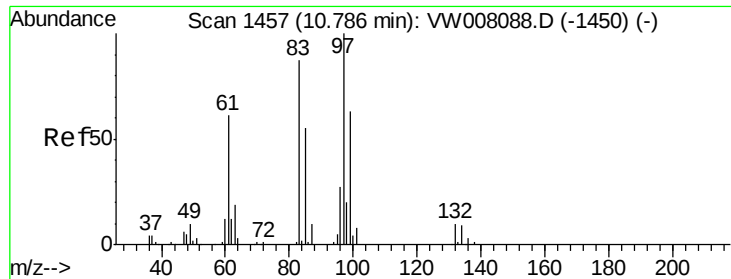
Tgt Ion: 43 Resp: 1464
 Ion Ratio Lower Upper
 43 100
 58 35.5 30.6 46.0



#52
 Toluene
 Concen: 2.093 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: VW008205.D
 Acq: 11 Jan 2019 20:10

Tgt Ion: 92 Resp: 7246
 Ion Ratio Lower Upper
 92 100
 91 173.7 137.0 205.4





#55

1,1,2-Trichloroethane

Concen: 2.844 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

CPSB-18(20-25)

Tgt Ion: 97 Resp: 2636

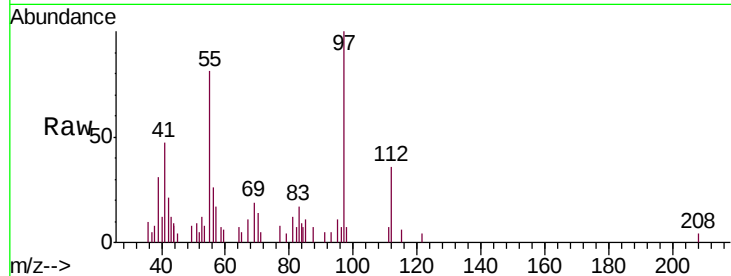
Ion Ratio Lower Upper

97 100

83 12.8 69.3 103.9#

85 10.5 43.8 65.6#

99 0.0 50.0 75.0#

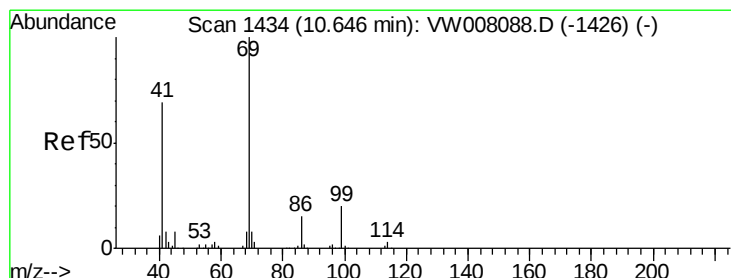
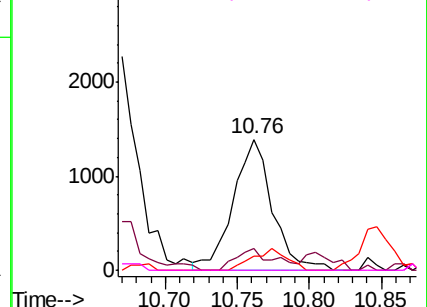
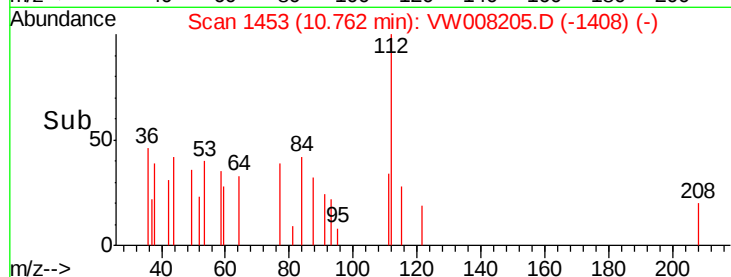


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 1.558 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

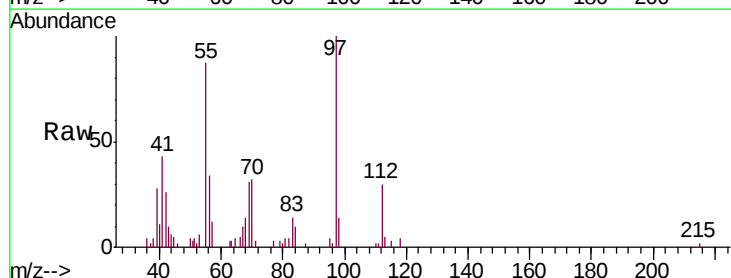
Tgt Ion: 69 Resp: 1788

Ion Ratio Lower Upper

69 100

41 125.6 56.4 84.6#

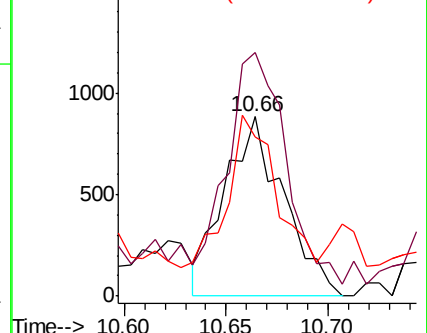
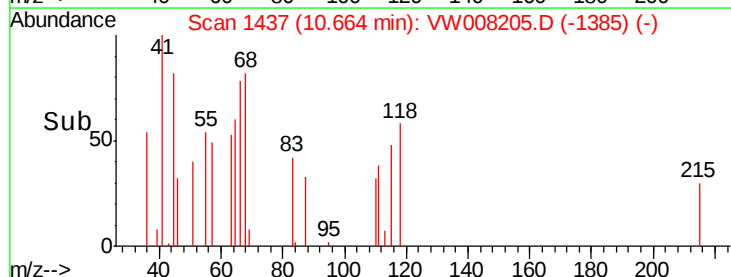
39 68.5 28.1 42.1#

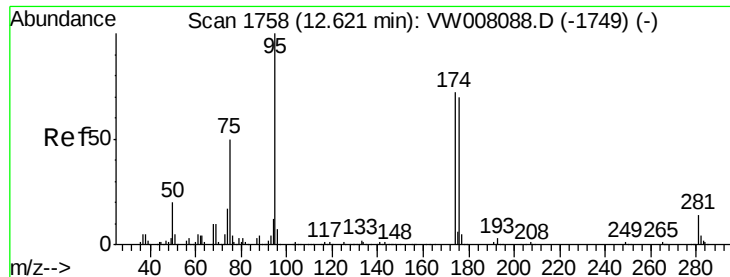


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#62

4-Bromofluorobenzene

Concen: 47.840 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

CPSB-18(20-25)

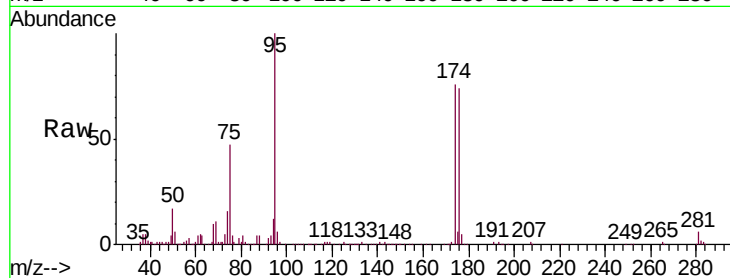
Tgt Ion: 95 Resp: 81445

Ion Ratio Lower Upper

95 100

174 78.0 0.0 143.0

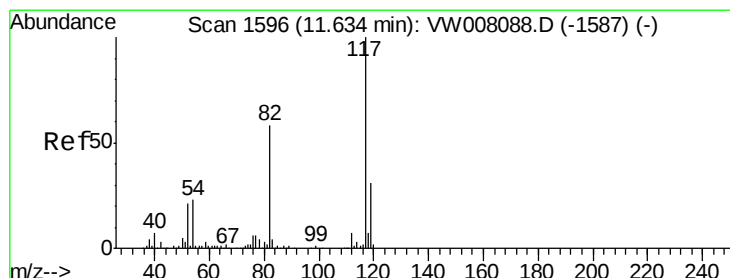
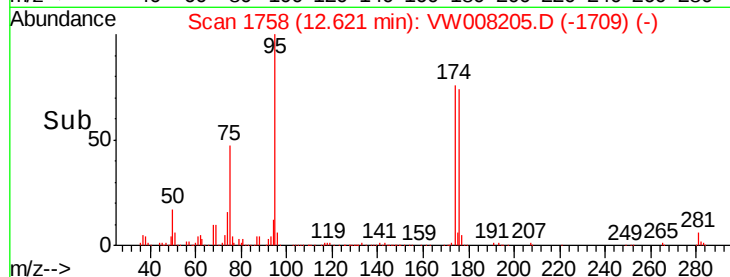
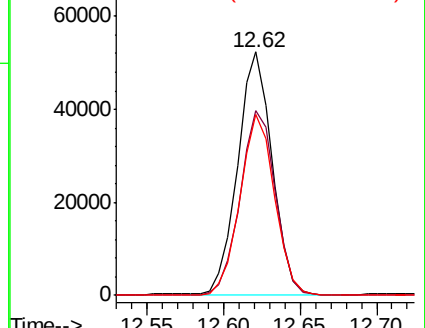
176 75.0 0.0 140.2



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

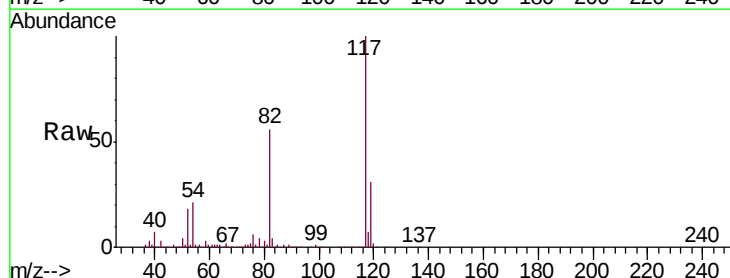
Tgt Ion: 117 Resp: 170640

Ion Ratio Lower Upper

117 100

82 56.2 46.4 69.6

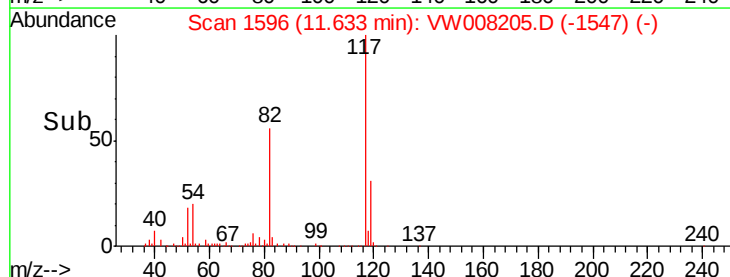
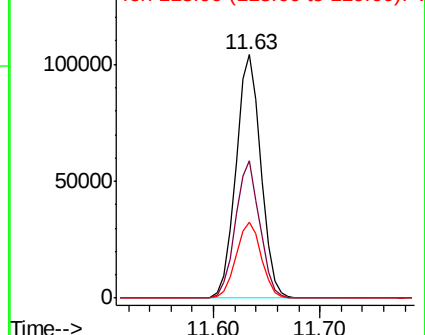
119 31.1 24.7 37.1

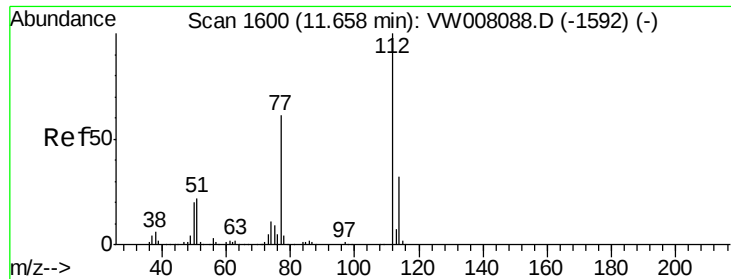


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

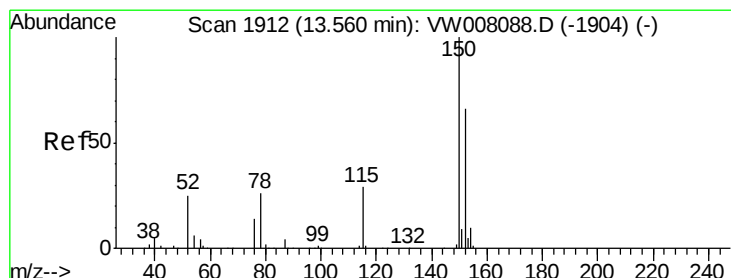
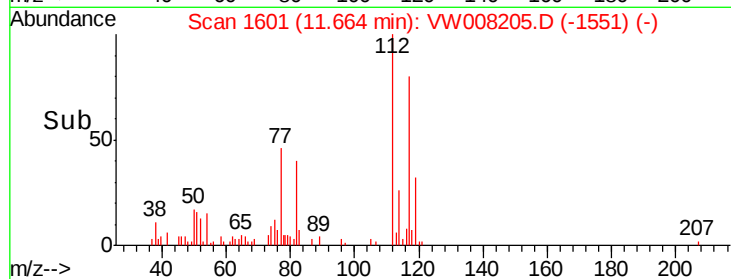
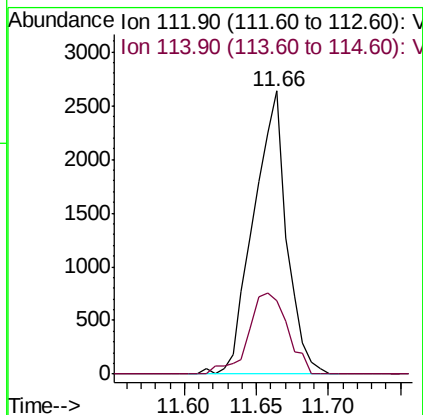
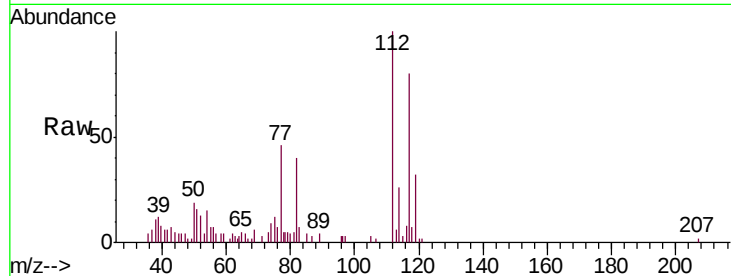




#65
Chlorobenzene
Concen: 1.158 ug/l
RT: 11.66 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VW008205.D
Acq: 11 Jan 2019 20:10

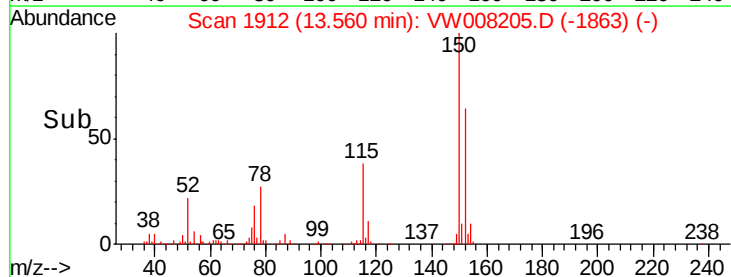
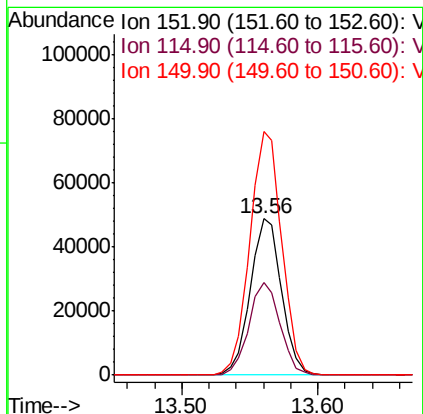
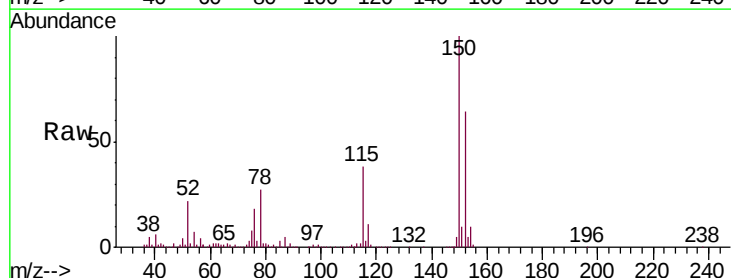
Instrument :
MSVOA_W
ClientSampleId :
CPSB-18(20-25)

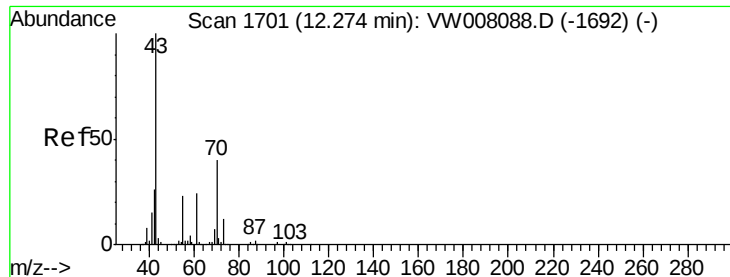
Tgt Ion:112 Resp: 4188
Ion Ratio Lower Upper
112 100
114 25.8 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW008205.D
Acq: 11 Jan 2019 20:10

Tgt Ion:152 Resp: 78774
Ion Ratio Lower Upper
152 100
115 59.2 30.8 92.4
150 158.7 0.0 350.2





#74

N-ethyl acetate

Concen: 2.059 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

CPSB-18(20-25)

Tgt Ion: 43 Resp: 2820

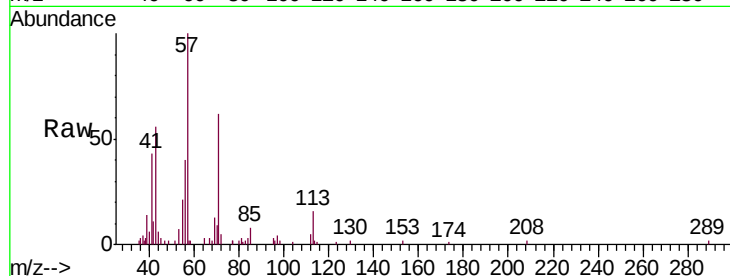
Ion Ratio Lower Upper

43 100

70 0.0 32.4 48.6#

55 51.3 18.7 28.1#

61 0.7 19.0 28.6#

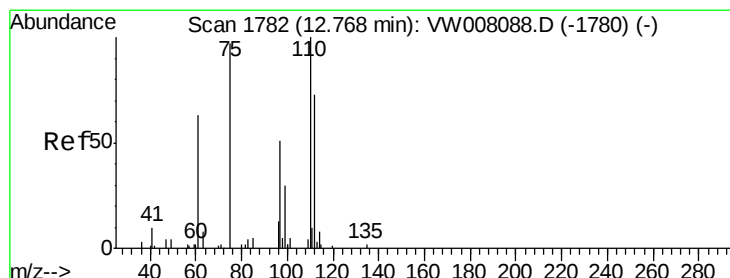
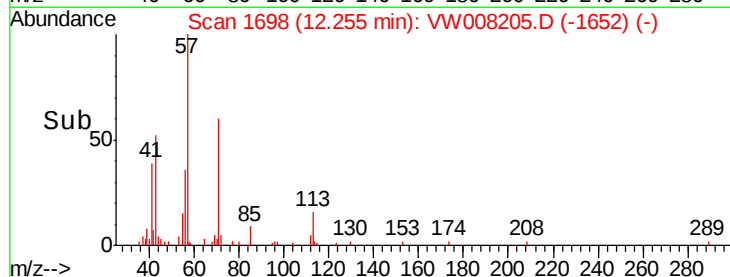
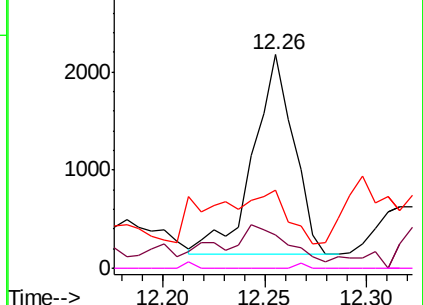


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 55.029 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008205.D

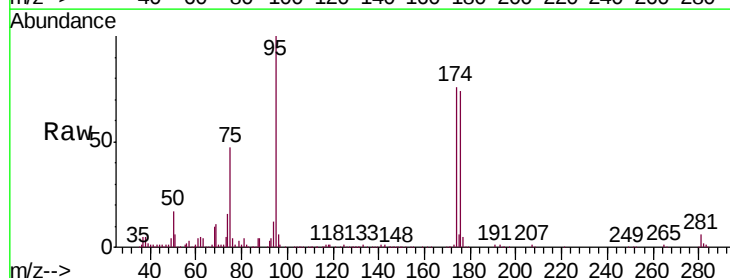
Acq: 11 Jan 2019 20:10

Tgt Ion: 75 Resp: 39517

Ion Ratio Lower Upper

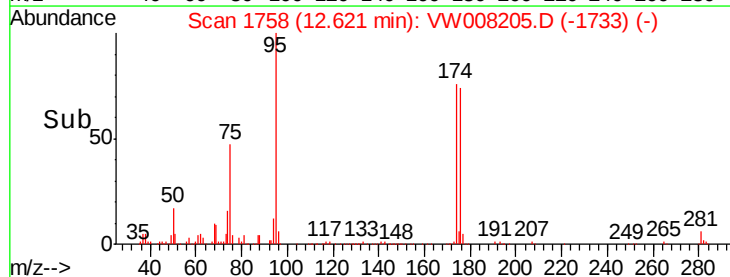
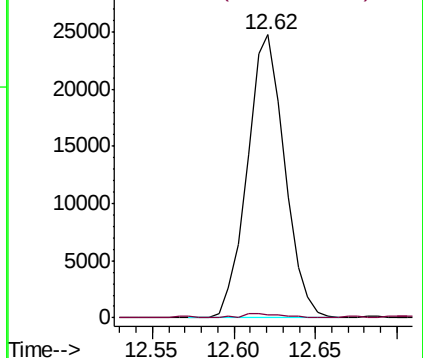
75 100

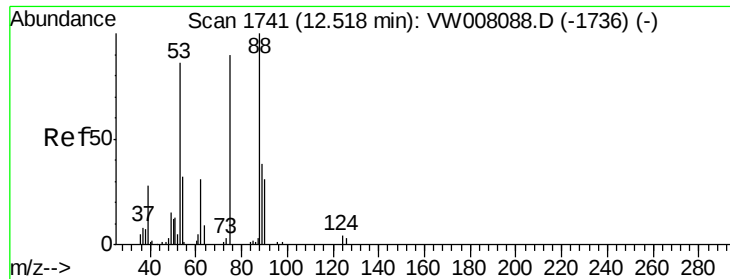
77 1.7 179.4 538.2#



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: 128.146 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008205.D

Acq: 11 Jan 2019 20:10

Instrument :

MSVOA_W

ClientSampleId :

CPSB-18(20-25)

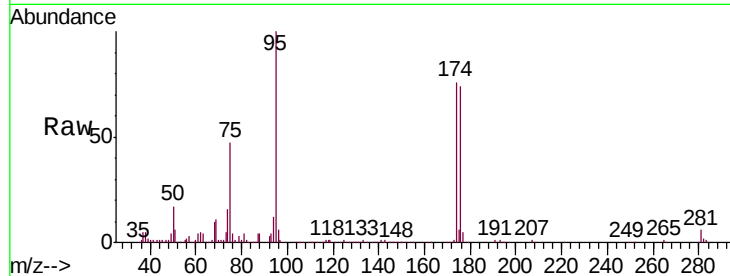
Tgt Ion: 75 Resp: 39517

Ion Ratio Lower Upper

75 100

53 0.7 78.8 118.2#

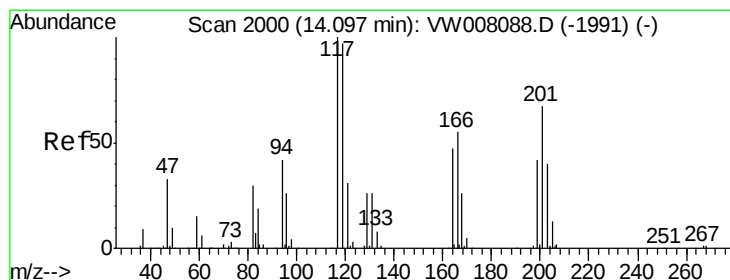
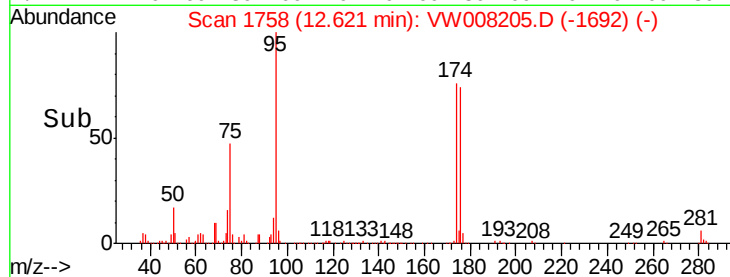
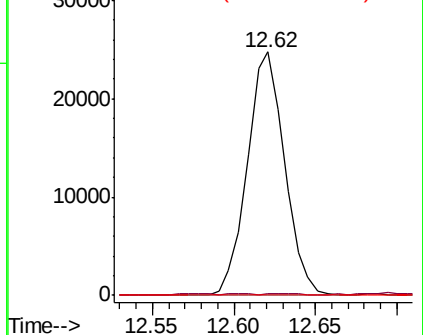
89 0.1 35.4 53.2#



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



#90

Hexachloroethane

Concen: 1.615 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008205.D

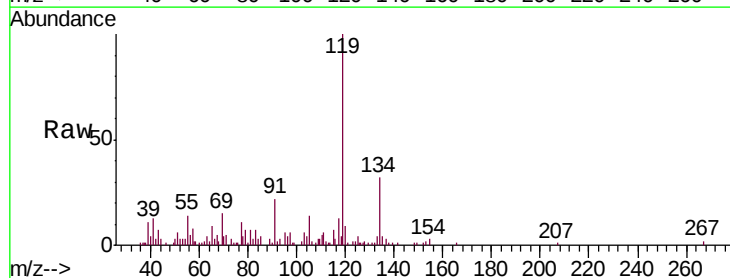
Acq: 11 Jan 2019 20:10

Tgt Ion: 117 Resp: 1551

Ion Ratio Lower Upper

117 100

201 1.2 33.0 98.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

