

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW012919\
 Data File : VW008446.D
 Acq On : 29 Jan 2019 12:35
 Operator : SY/VA
 Sample : K1010-07
 Misc : 4.97G/5ML/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-A

Quant Time: Jan 30 03:11:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 25 11:07:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	403177	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	648766	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	528553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	191329	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	212262	53.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.18%	
35) Dibromofluoromethane	7.88	113	205865	54.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.54%	
50) Toluene-d8	10.32	98	738026	48.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.04%	
62) 4-Bromofluorobenzene	12.62	95	230411	39.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.80%	

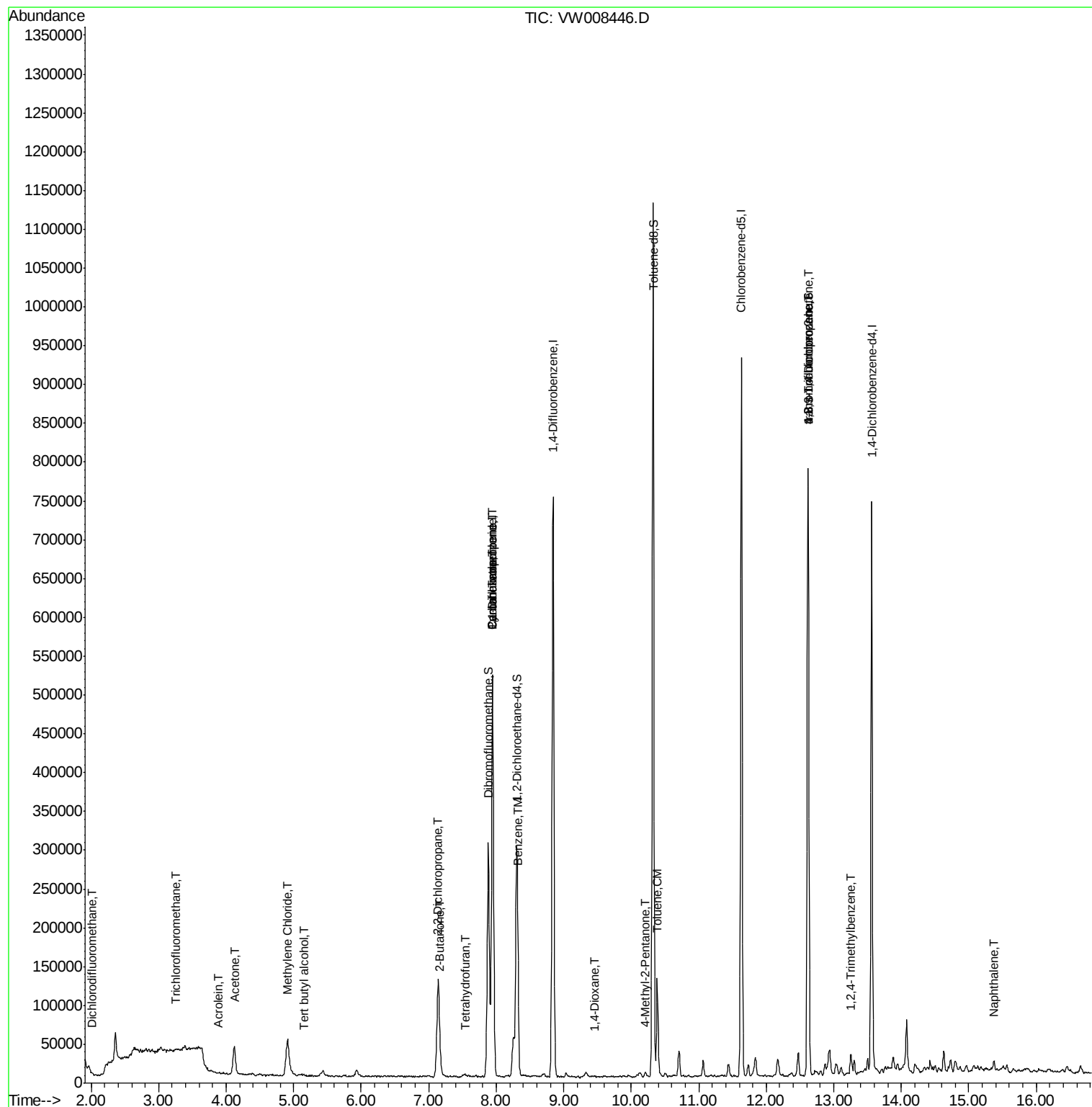
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	637	3.508	ug/l	79
7) Trichlorofluoromethane	3.26	101	595	4.873	ug/l #	71
11) Tert butyl alcohol	5.15	59	2519	7.899	ug/l	97
13) Acrolein	3.88	56	264	5.108	ug/l #	14
16) Acetone	4.12	43	62301	70.043	ug/l	96
20) Methylene Chloride	4.91	84	38556	9.405	ug/l	99
25) 2-Butanone	7.17	43	13383	10.832	ug/l	93
26) 2,2-Dichloropropane	7.13	77	8509	1.675	ug/l #	54
29) Tetrahydrofuran	7.54	42	3147	4.020	ug/l #	82
31) Cyclohexane	7.94	56	9689	1.246	ug/l #	33
36) 1,1-Dichloropropene	7.95	75	27882	4.550	ug/l #	50
38) Carbon Tetrachloride	7.95	117	37589	6.095	ug/l #	16
40) Benzene	8.32	78	36451	2.144	ug/l	98
49) 1,4-Dioxane	9.46	88	53	1.438	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	4665	1.676	ug/l #	84
52) Toluene	10.38	92	55952	4.984	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	117461	70.612	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	117461	139.464	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.25	105	14353	1.184	ug/l	98
95) Naphthalene	15.38	128	11224	1.609	ug/l #	91

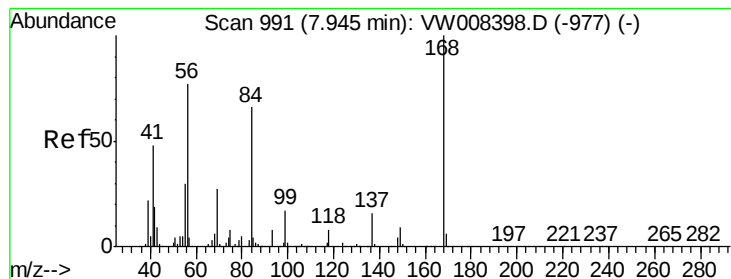
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

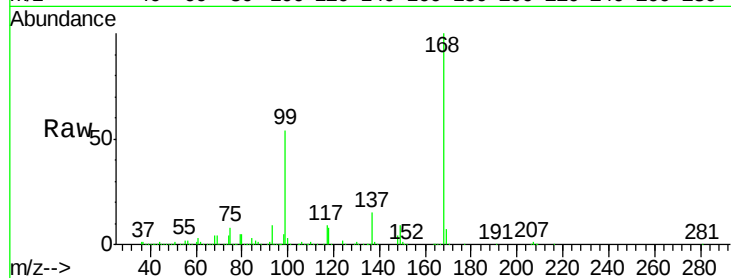
OK-03-012819-A

Tgt Ion: 168 Resp: 403177

Ion Ratio Lower Upper

168 100

99 54.4 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

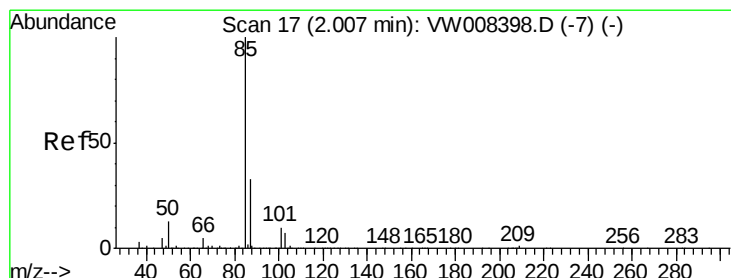
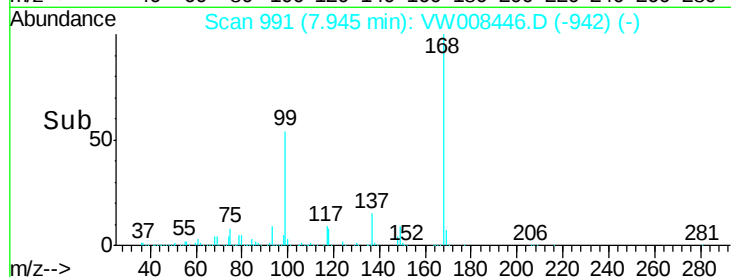
100000

50000

0

7.80 7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 3.508 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW008446.D

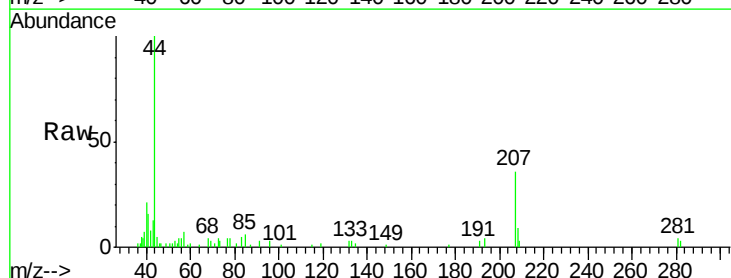
Acq: 29 Jan 2019 12:35

Tgt Ion: 85 Resp: 637

Ion Ratio Lower Upper

85 100

87 21.2 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

300

250

200

150

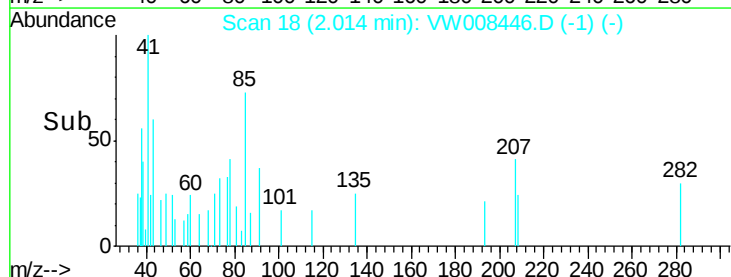
100

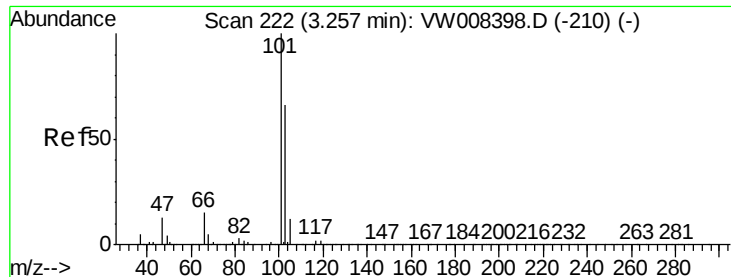
50

0

1.95 2.00 2.05

Time-->



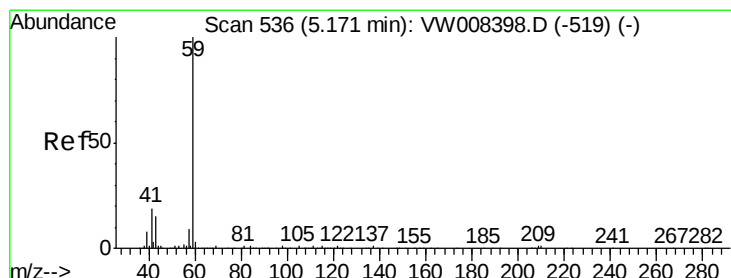
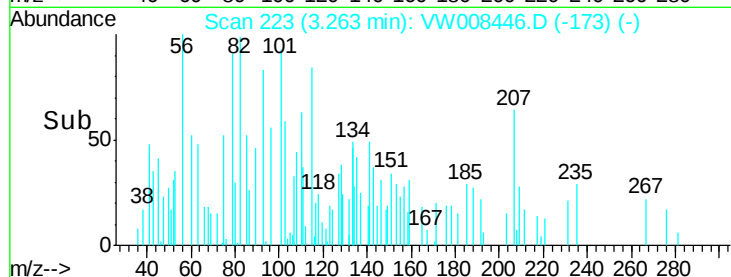
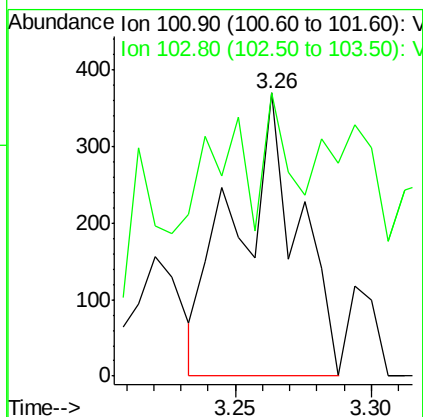
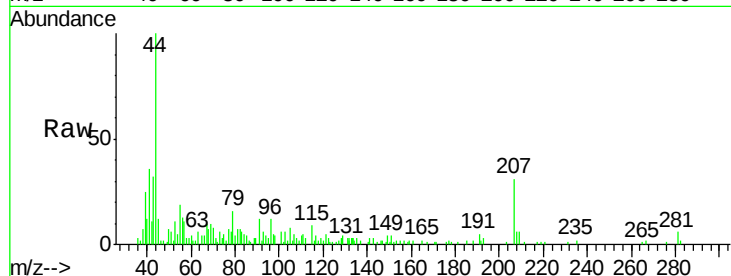


#7

Trichlorofluoromethane
 Concen: 4.873 ug/l
 RT: 3.26 min Scan# 223
 Delta R.T. 0.01 min
 Lab File: VW008446.D
 Acq: 29 Jan 2019 12:35

Instrument :
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 ClientSampleId :
 OK-03-012819-A

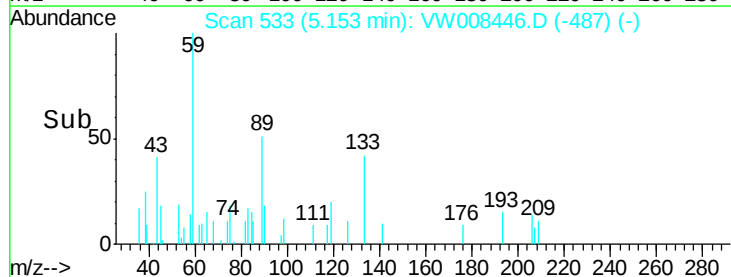
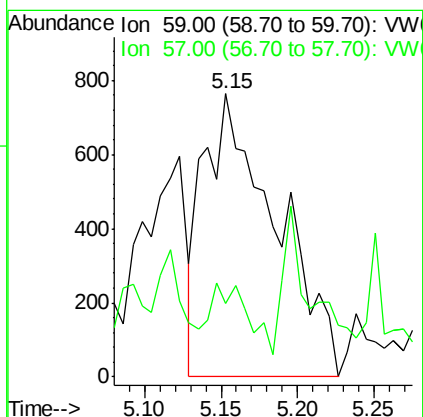
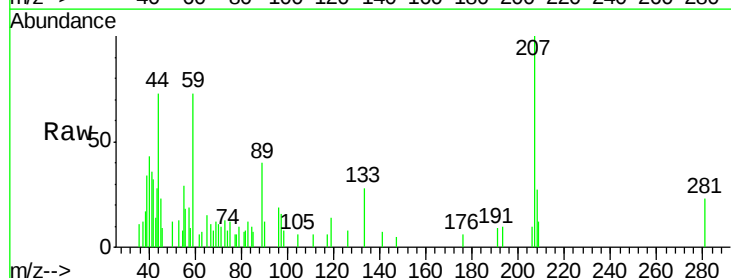
Tgt Ion: 101 Resp: 595
 Ion Ratio Lower Upper
 101 100
 103 43.0 52.5 78.7#

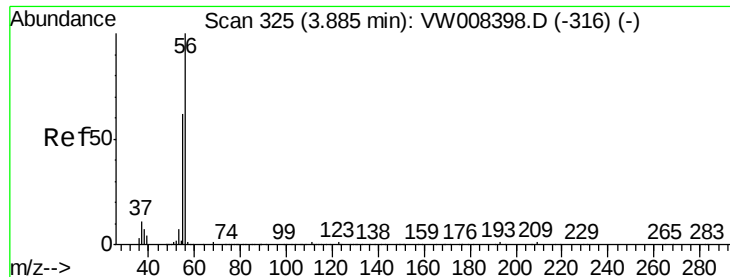


#11

Tert butyl alcohol
 Concen: 7.899 ug/l
 RT: 5.15 min Scan# 533
 Delta R.T. -0.02 min
 Lab File: VW008446.D
 Acq: 29 Jan 2019 12:35

Tgt Ion: 59 Resp: 2519
 Ion Ratio Lower Upper
 59 100
 57 12.9 9.3 13.9

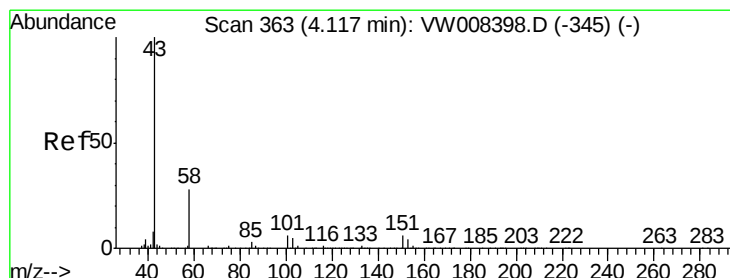
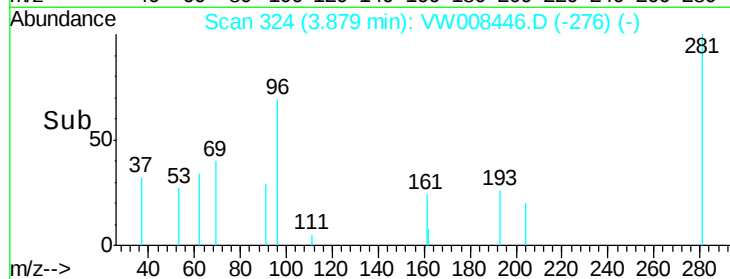
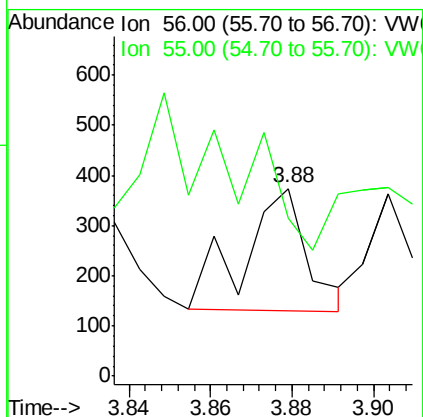
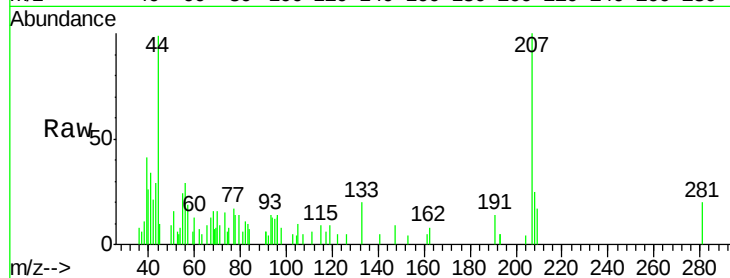




#13
Acrolein
Concen: 5.108 ug/l
RT: 3.88 min Scan# 324
Delta R.T. -0.01 min
Lab File: VW008446.D
Acq: 29 Jan 2019 12:35

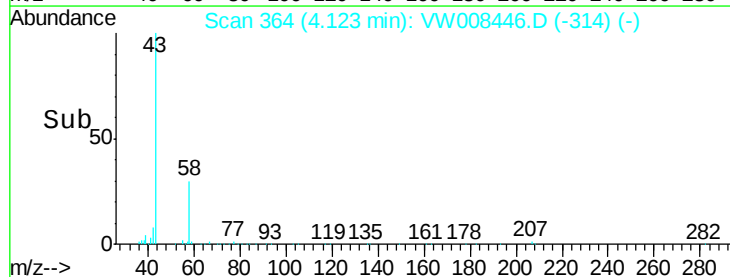
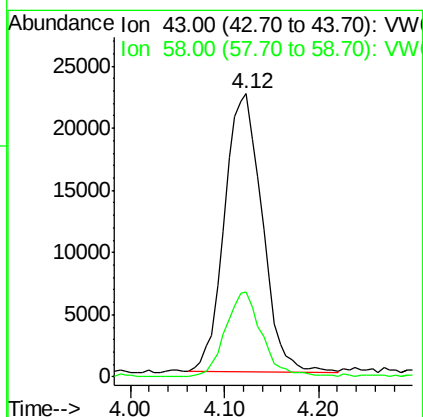
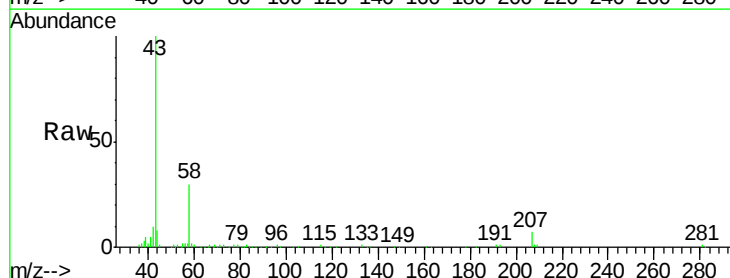
Instrument :
MSVOA_W
ClientSampleId :
OK-03-012819-A

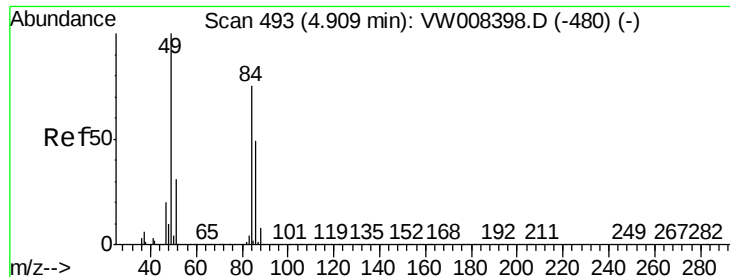
Tgt Ion: 56 Resp: 264
Ion Ratio Lower Upper
56 100
55 0.0 56.7 85.1#



#16
Acetone
Concen: 70.043 ug/l
RT: 4.12 min Scan# 364
Delta R.T. 0.01 min
Lab File: VW008446.D
Acq: 29 Jan 2019 12:35

Tgt Ion: 43 Resp: 62301
Ion Ratio Lower Upper
43 100
58 30.3 22.6 34.0





#20

Methylene Chloride

Concen: 9.405 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

OK-03-012819-A

Tgt Ion: 84 Resp: 38556

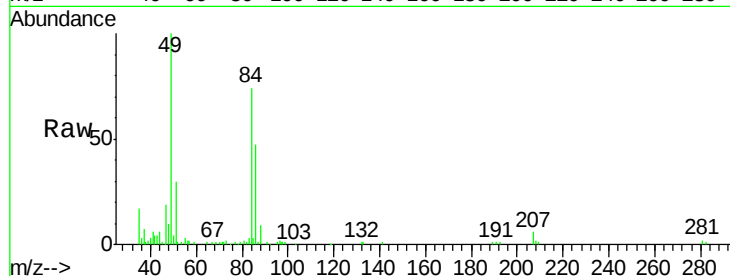
Ion Ratio Lower Upper

84 100

49 133.6 106.8 160.2

51 38.6 32.9 49.3

86 63.4 52.2 78.2

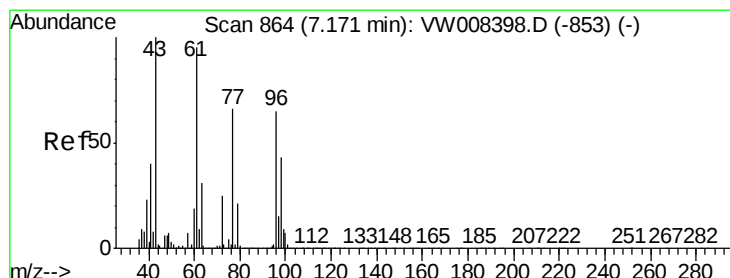
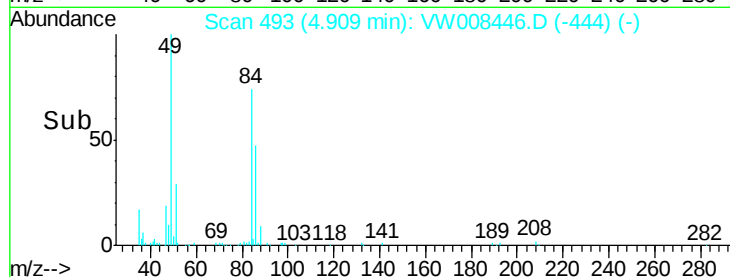
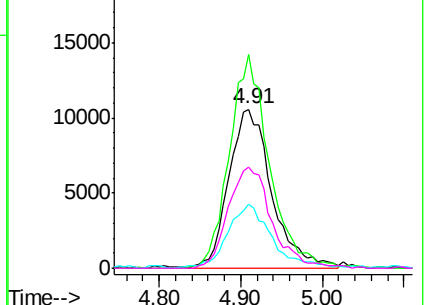


Abundance Ion 83.90 (83.60 to 84.60): VW

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: 10.832 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW008446.D

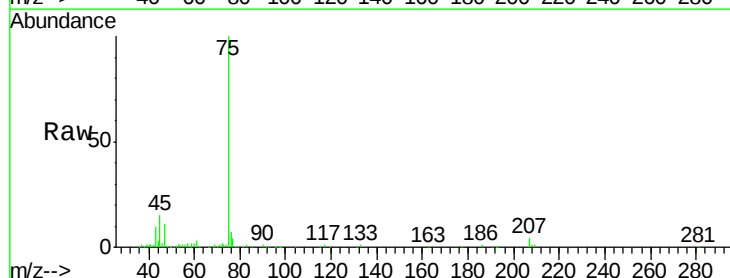
Acq: 29 Jan 2019 12:35

Tgt Ion: 43 Resp: 13383

Ion Ratio Lower Upper

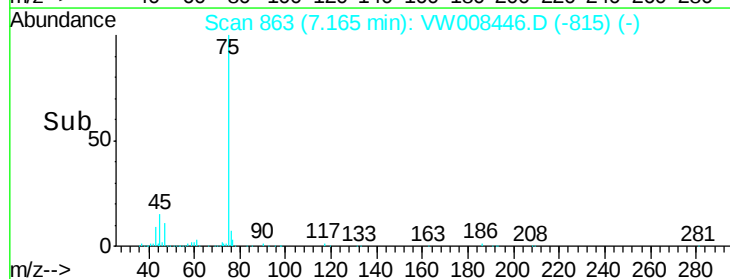
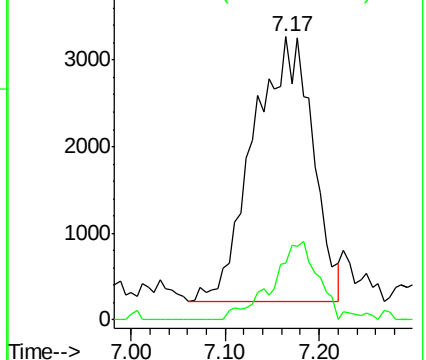
43 100

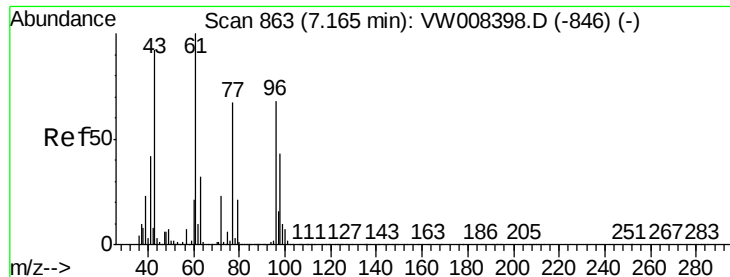
72 21.6 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 1.675 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

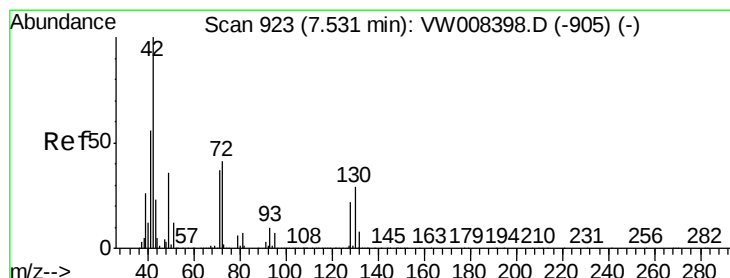
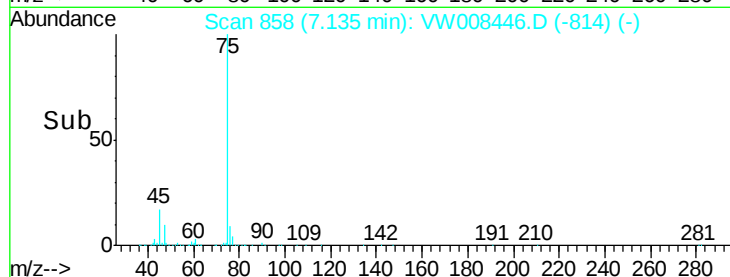
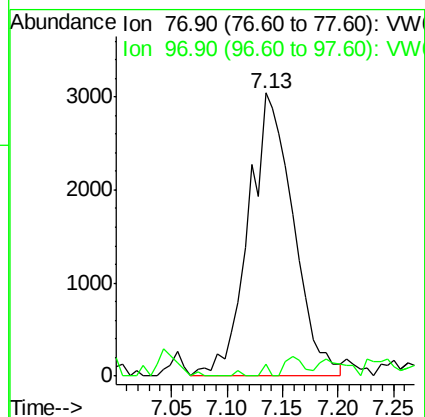
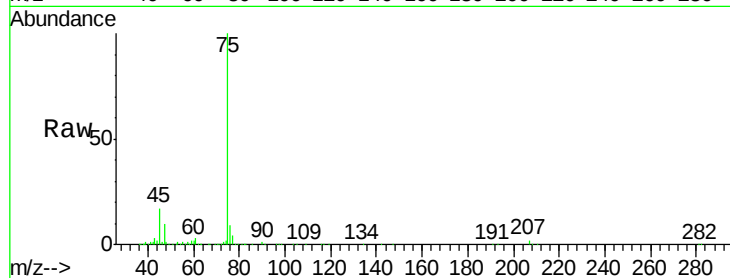
OK-03-012819-A

Tgt Ion: 77 Resp: 8509

Ion Ratio Lower Upper

77 100

97 0.6 11.5 34.5#



#29

Tetrahydrofuran

Concen: 4.020 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

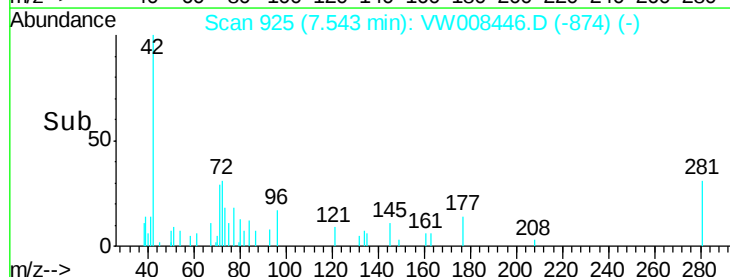
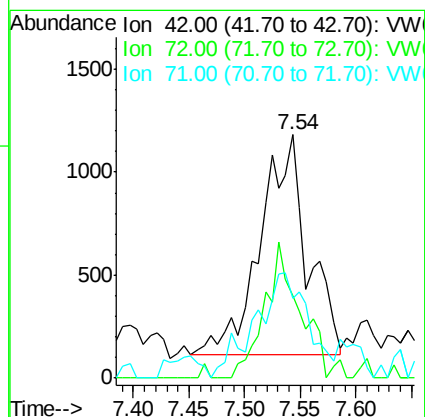
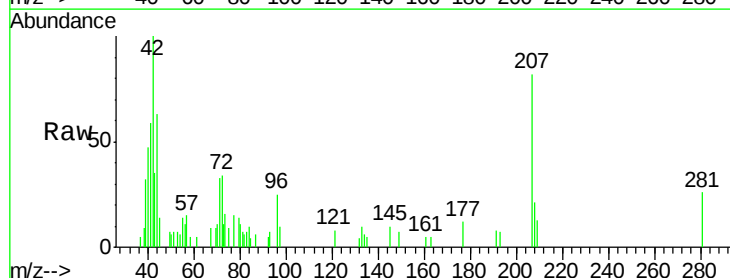
Tgt Ion: 42 Resp: 3147

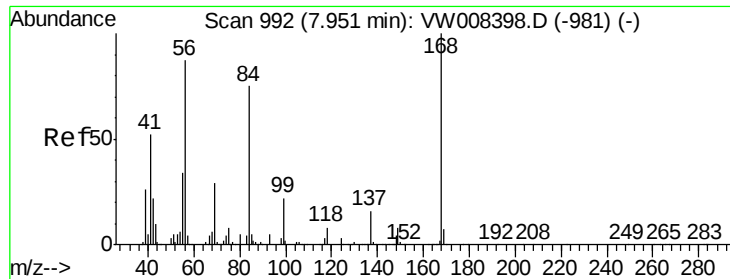
Ion Ratio Lower Upper

42 100

72 46.2 31.9 47.9

71 53.6 29.9 44.9#





#31

Cyclohexane

Concen: 1.246 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

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ClientSampleId :

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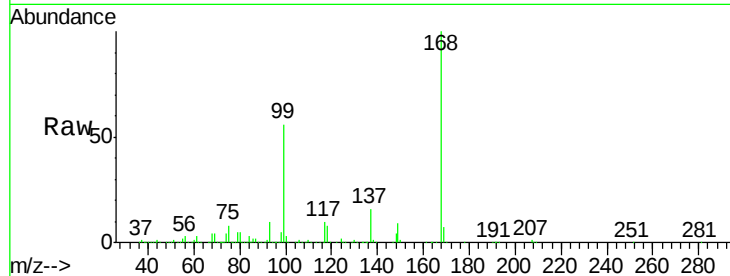
Tgt Ion: 56 Resp: 9689

Ion Ratio Lower Upper

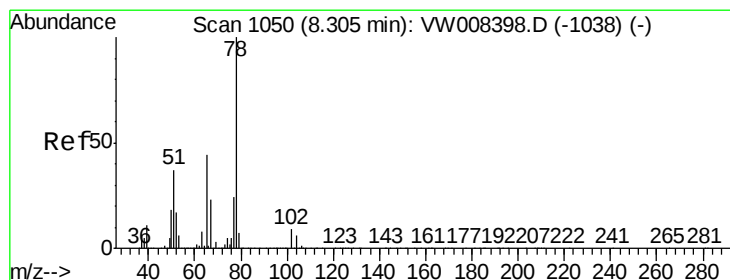
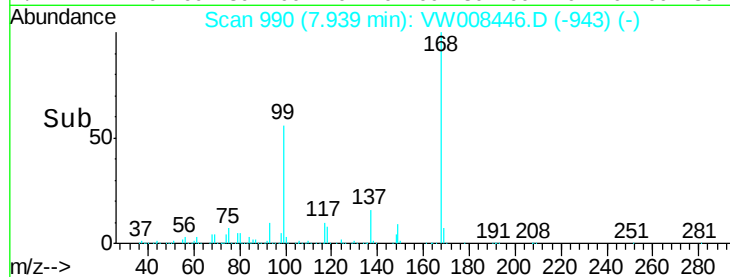
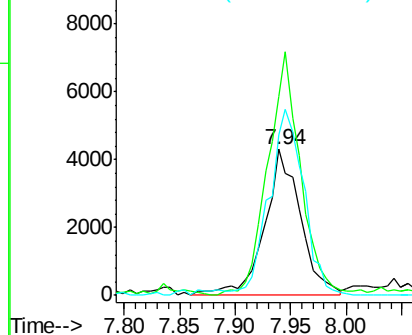
56 100

69 132.9 26.4 39.6#

84 109.8 69.1 103.7#



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: 53.590 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008446.D

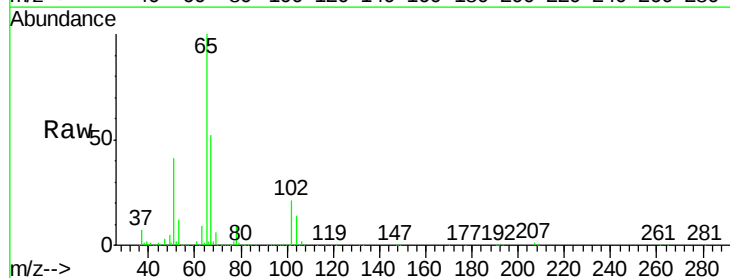
Acq: 29 Jan 2019 12:35

Tgt Ion: 65 Resp: 212262

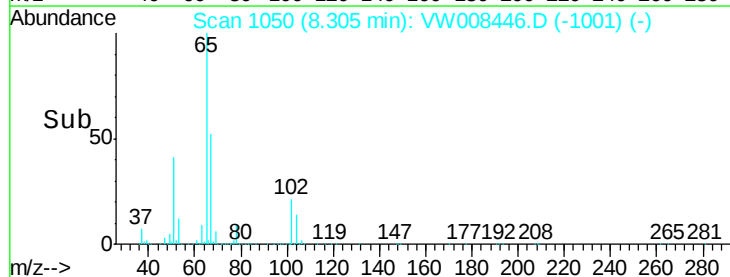
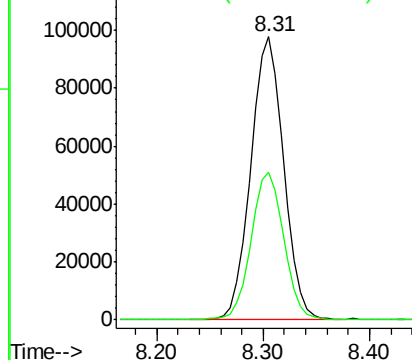
Ion Ratio Lower Upper

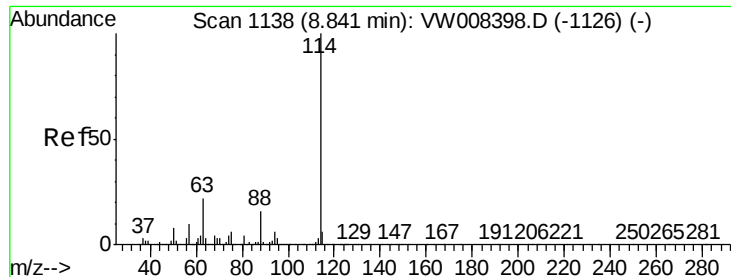
65 100

67 52.1 0.0 104.0



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

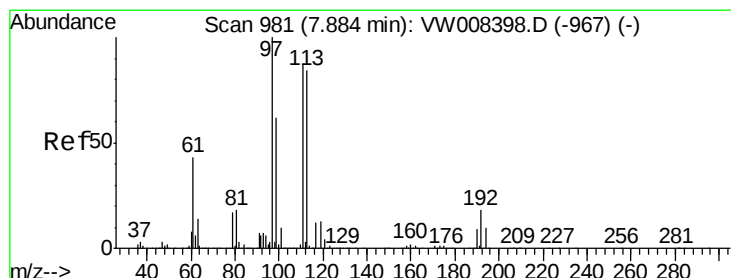
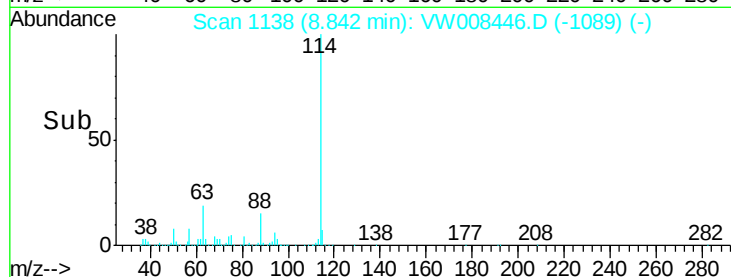
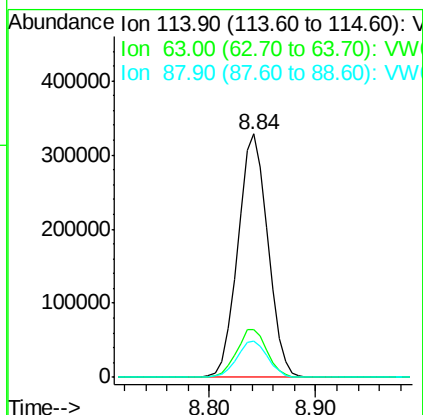
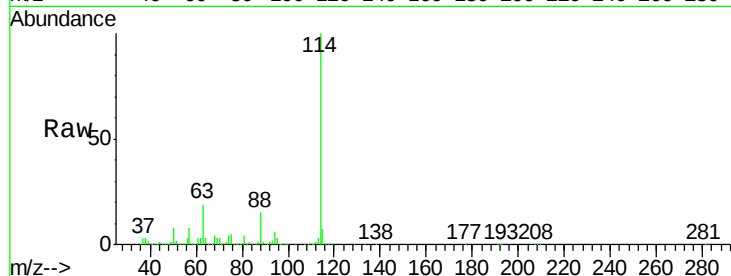




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VW008446.D
Acq: 29 Jan 2019 12:35

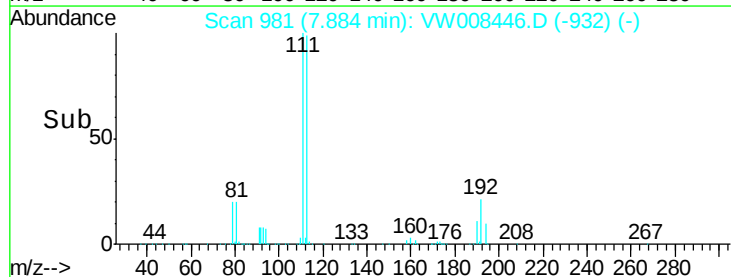
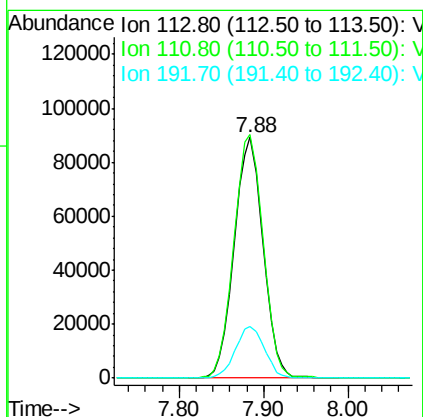
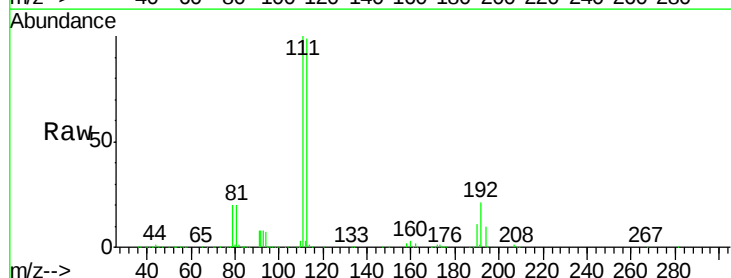
Instrument :
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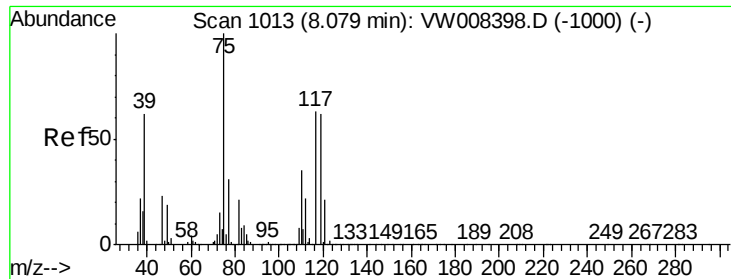
Tgt Ion:114 Resp: 648766
Ion Ratio Lower Upper
114 100
63 19.5 0.0 43.6
88 15.1 0.0 31.8



#35
Dibromofluoromethane
Concen: 54.267 ug/l
RT: 7.88 min Scan# 981
Delta R.T. 0.00 min
Lab File: VW008446.D
Acq: 29 Jan 2019 12:35

Tgt Ion:113 Resp: 205865
Ion Ratio Lower Upper
113 100
111 102.9 81.0 121.4
192 21.6 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.550 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

OK-03-012819-A

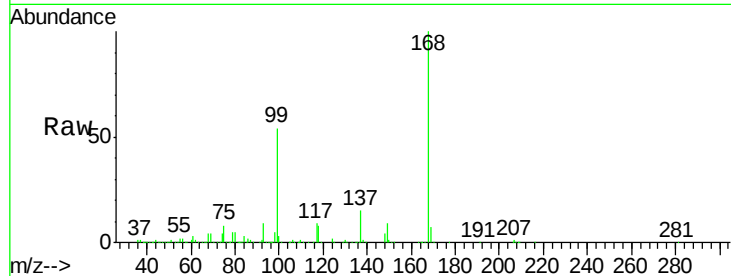
Tgt Ion: 75 Resp: 27882

Ion Ratio Lower Upper

75 100

110 8.9 17.3 52.0#

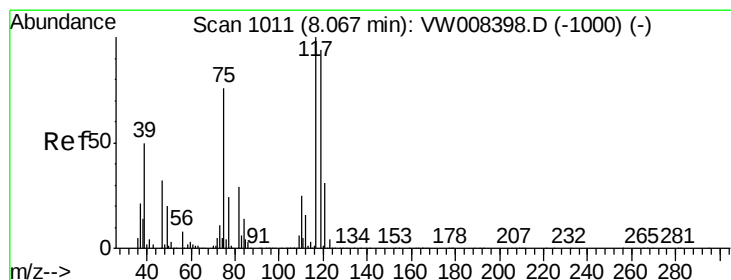
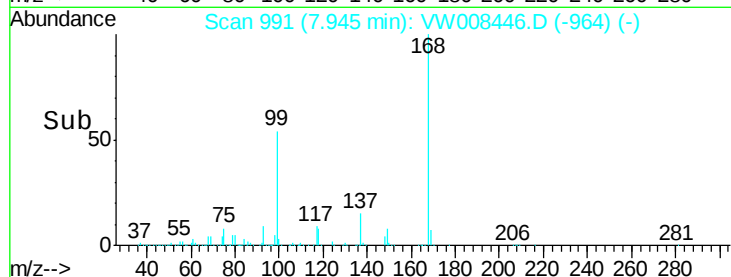
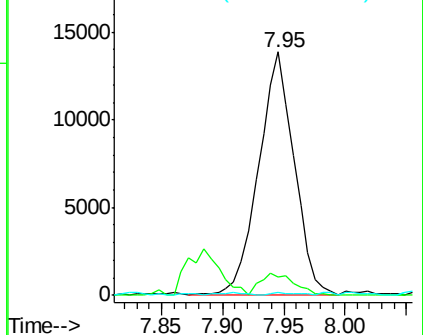
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 6.095 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

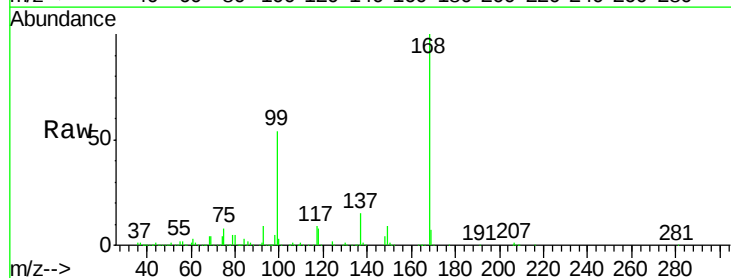
Tgt Ion: 117 Resp: 37589

Ion Ratio Lower Upper

117 100

119 3.4 75.0 112.4#

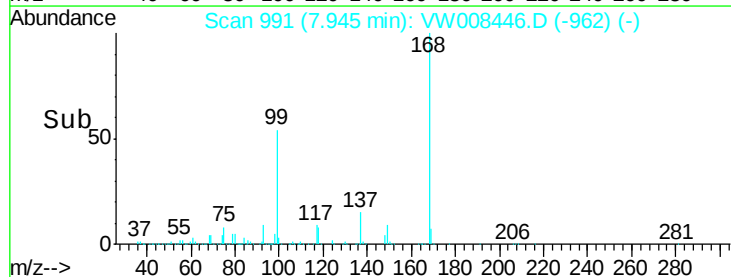
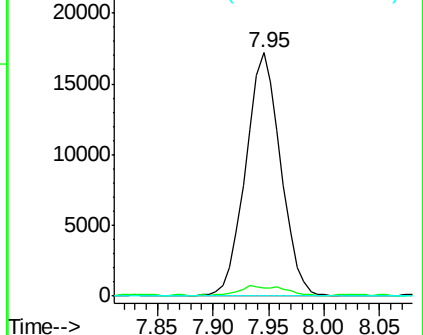
121 0.0 24.9 37.3#

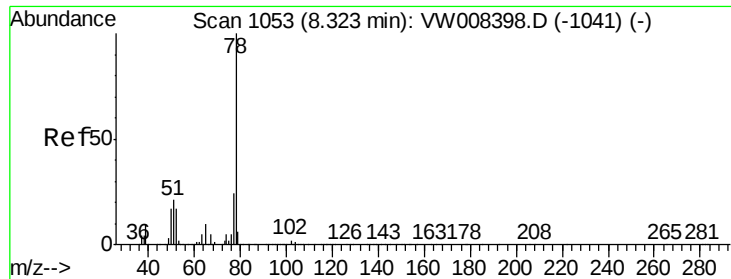


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 2.144 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

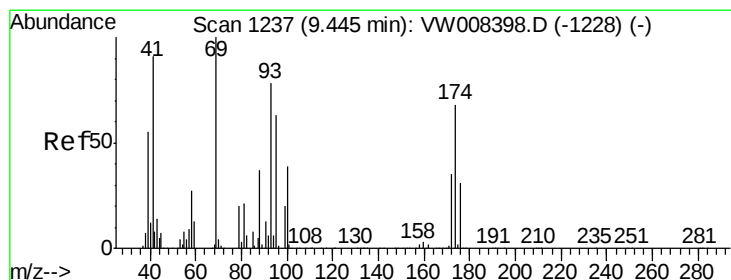
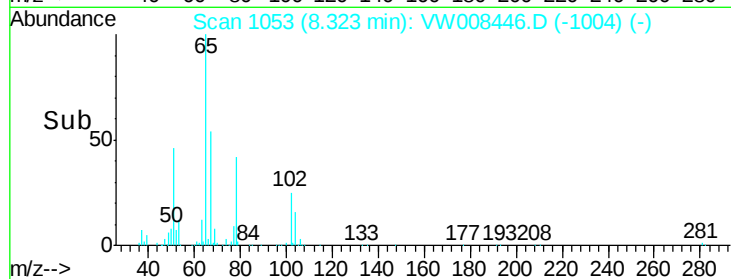
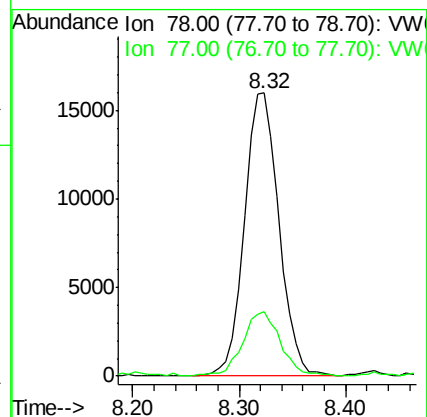
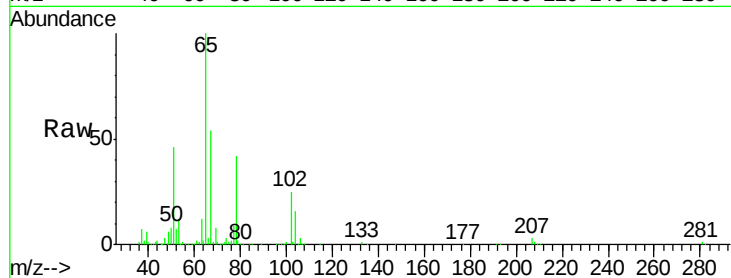
OK-03-012819-A

Tgt Ion: 78 Resp: 36451

Ion Ratio Lower Upper

78 100

77 22.8 19.0 28.6



#49

1,4-Dioxane

Concen: 1.438 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.01 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

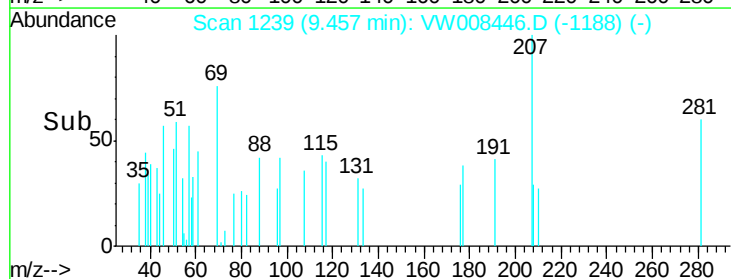
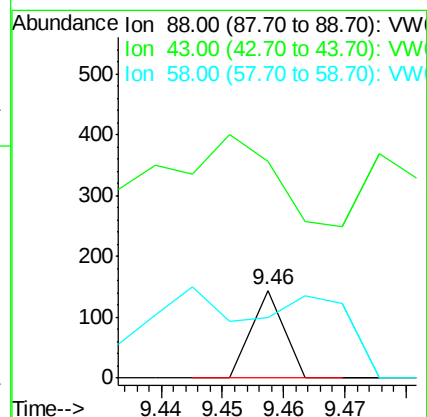
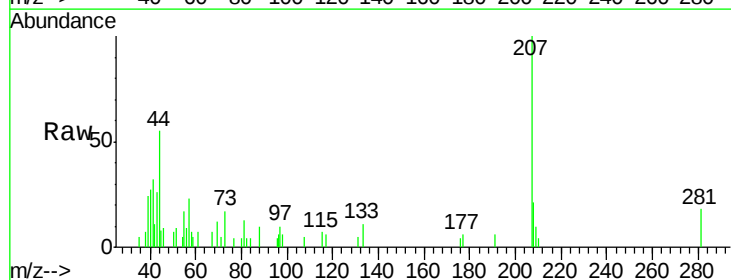
Tgt Ion: 88 Resp: 53

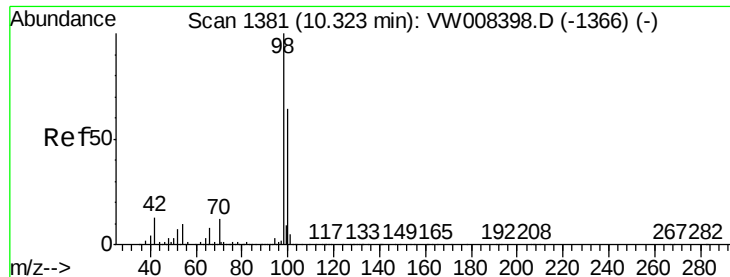
Ion Ratio Lower Upper

88 100

43 328.3 29.0 43.4#

58 43.4 56.4 84.6#





#50

Toluene-d8

Concen: 48.515 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

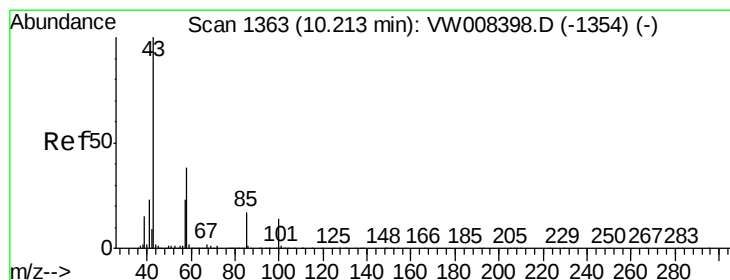
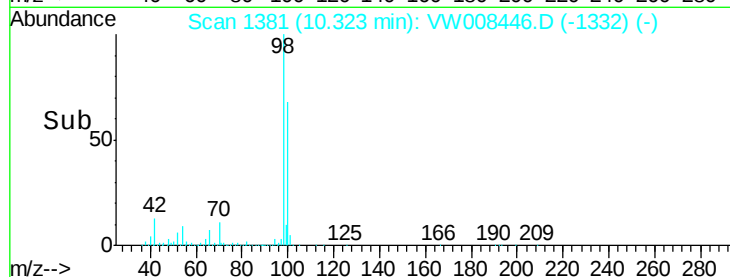
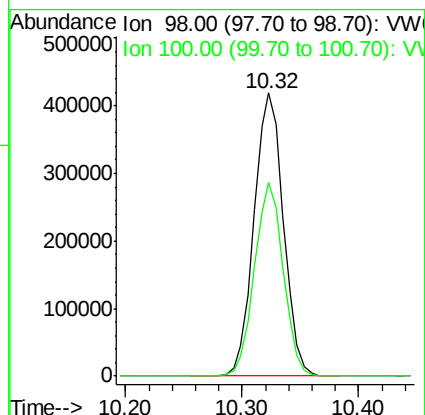
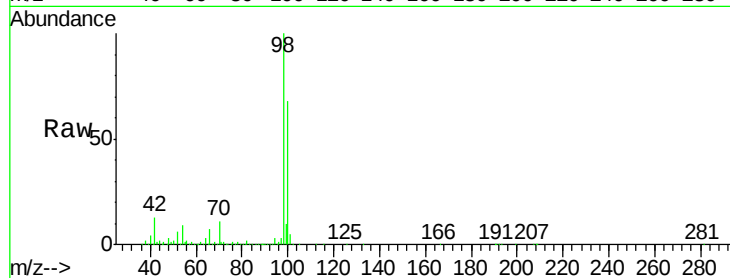
OK-03-012819-A

Tgt Ion: 98 Resp: 738026

Ion Ratio Lower Upper

98 100

100 66.9 52.6 78.8



#51

4-Methyl-2-Pentanone

Concen: 1.676 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW008446.D

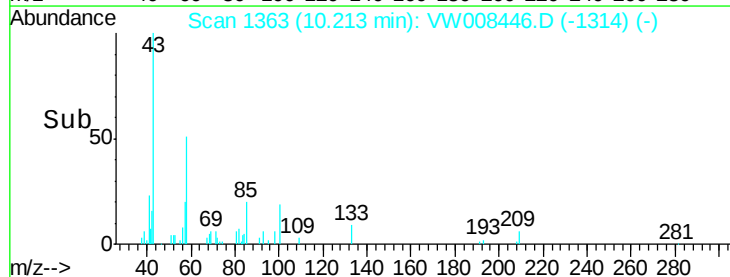
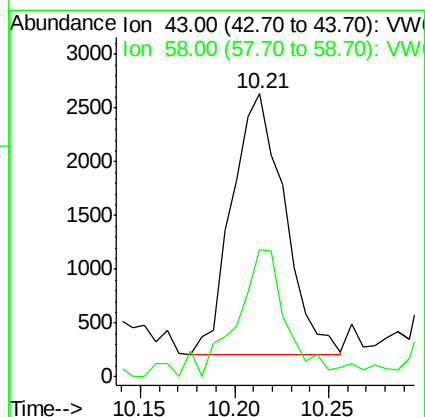
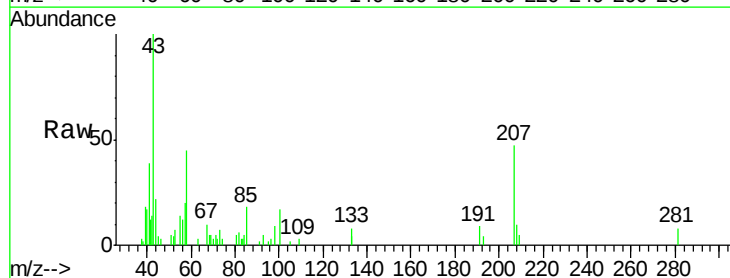
Acq: 29 Jan 2019 12:35

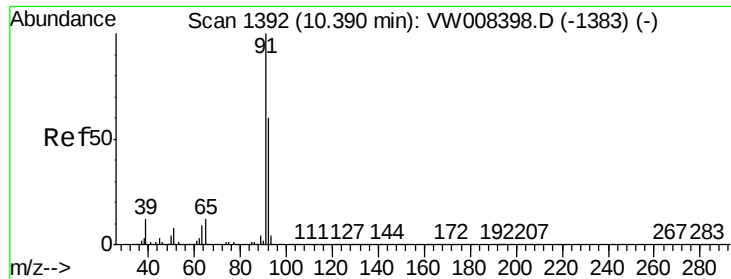
Tgt Ion: 43 Resp: 4665

Ion Ratio Lower Upper

43 100

58 46.9 29.7 44.5#





#52

Toluene

Concen: 4.984 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

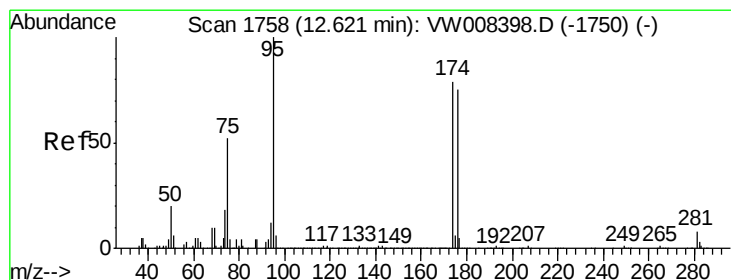
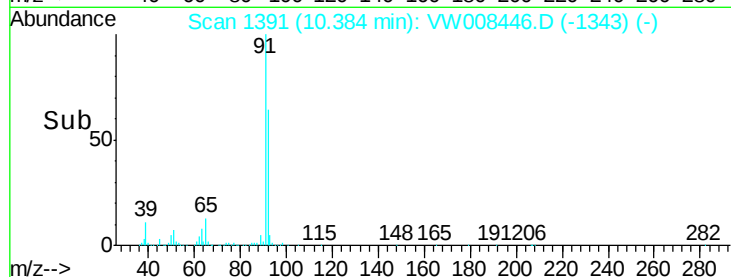
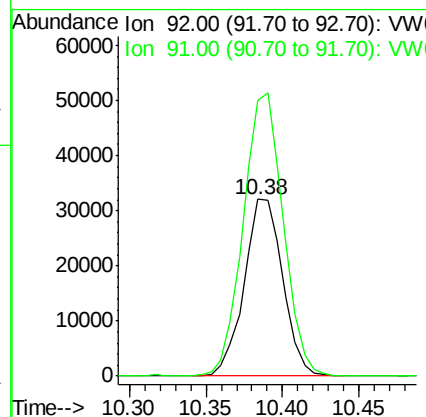
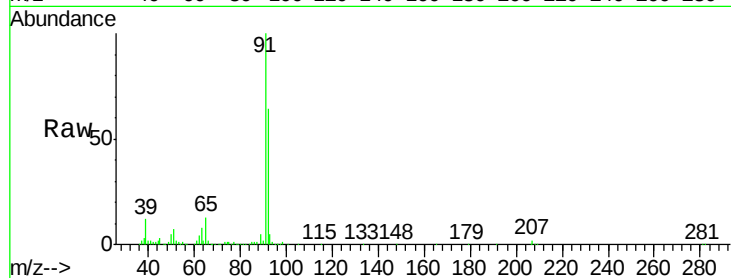
OK-03-012819-A

Tgt Ion: 92 Resp: 55952

Ion Ratio Lower Upper

92 100

91 165.5 135.5 203.3



#62

4-Bromofluorobenzene

Concen: 39.404 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

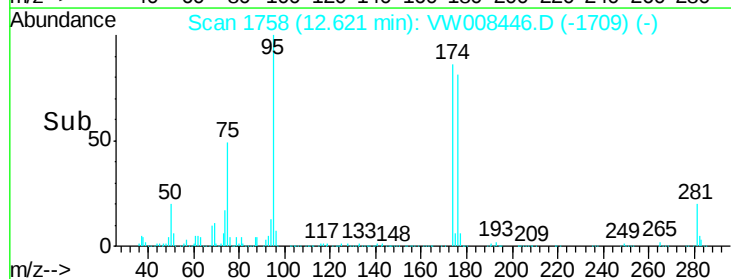
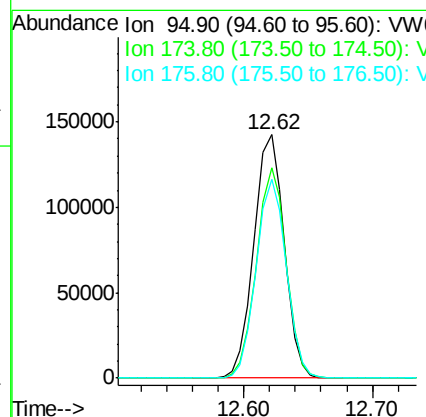
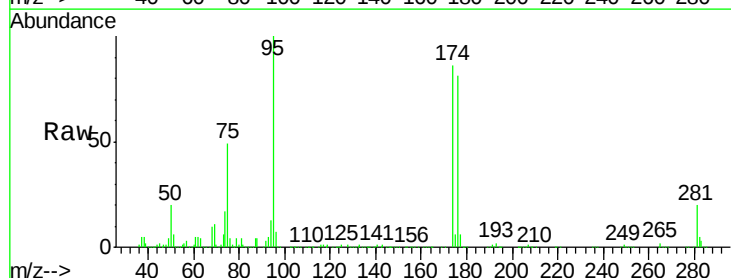
Tgt Ion: 95 Resp: 230411

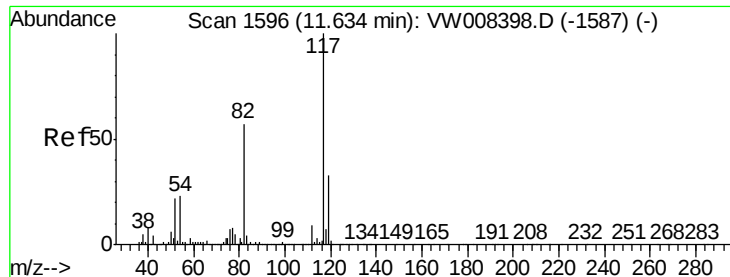
Ion Ratio Lower Upper

95 100

174 84.9 0.0 157.6

176 81.2 0.0 151.8

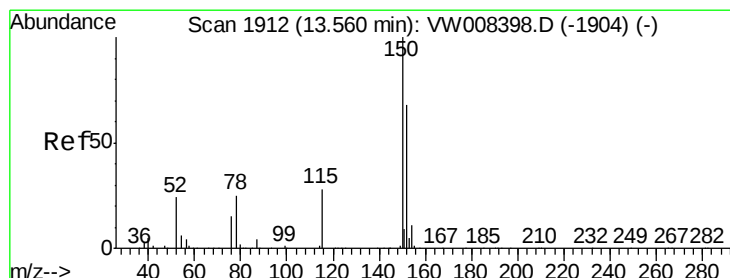
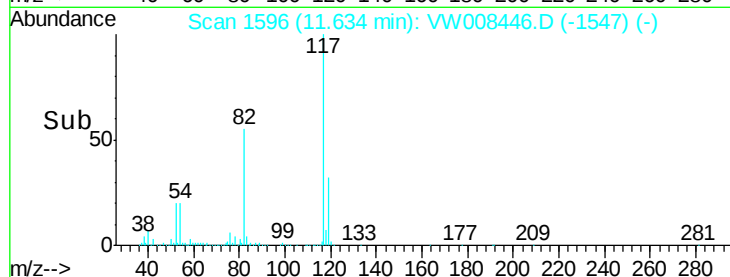
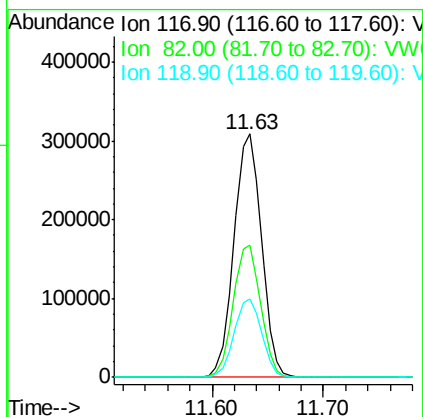
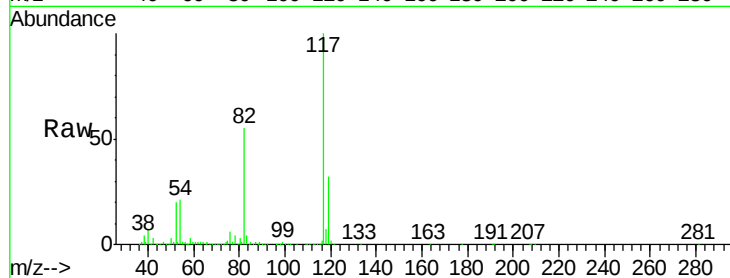




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008446.D
Acq: 29 Jan 2019 12:35

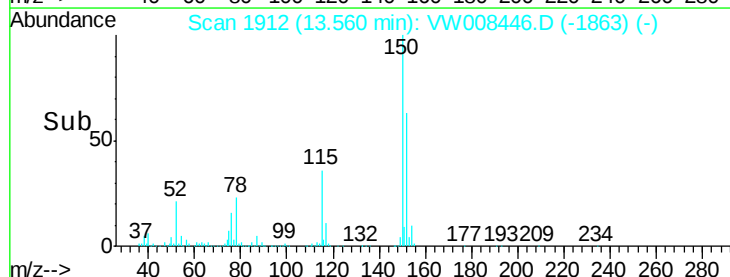
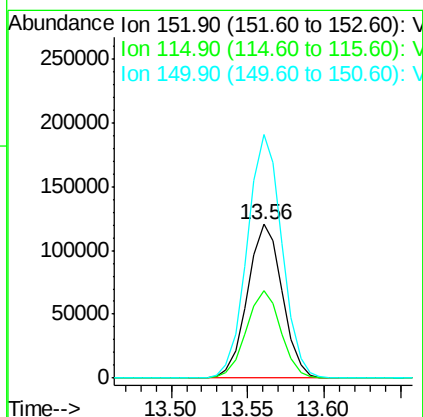
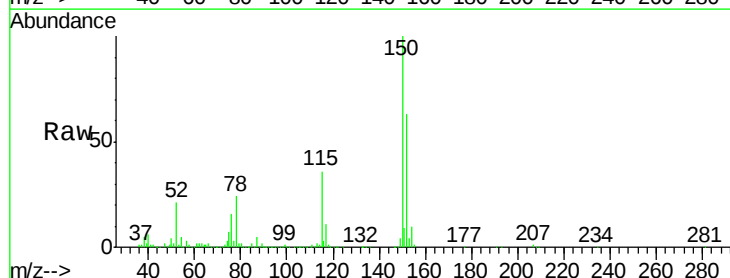
Instrument :
MSVOA_W
ClientSampleId :
OK-03-012819-A

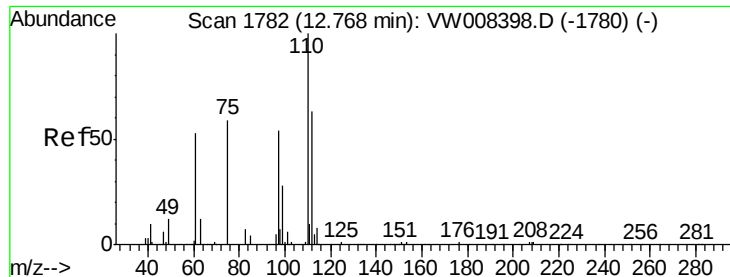
Tgt Ion:117 Resp: 528553
Ion Ratio Lower Upper
117 100
82 54.5 45.4 68.0
119 32.4 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008446.D
Acq: 29 Jan 2019 12:35

Tgt Ion:152 Resp: 191329
Ion Ratio Lower Upper
152 100
115 56.3 29.9 89.7
150 158.0 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 70.612 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

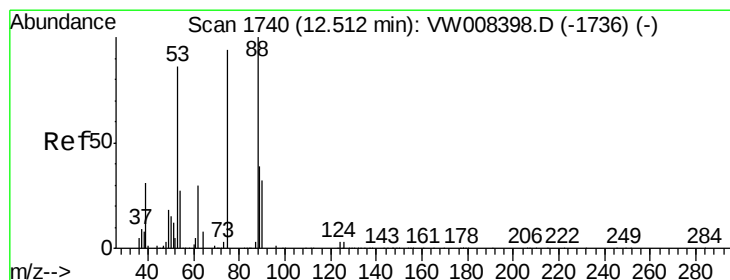
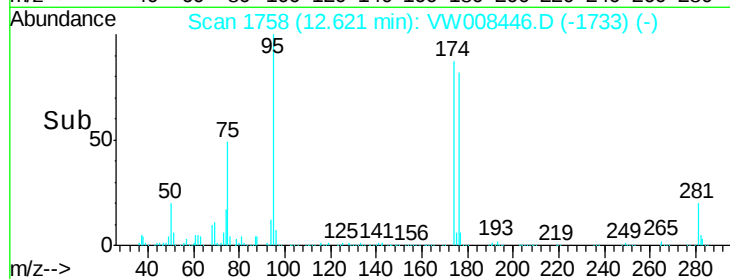
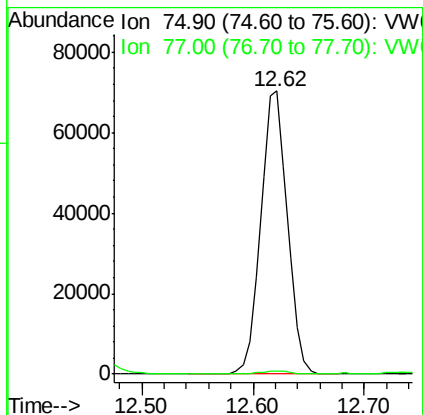
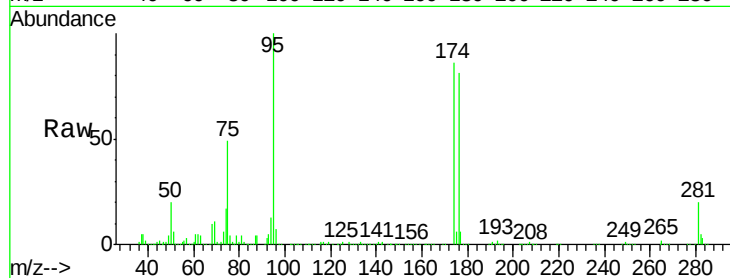
OK-03-012819-A

Tgt Ion: 75 Resp: 117461

Ion Ratio Lower Upper

75 100

77 1.2 180.7 542.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 139.464 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

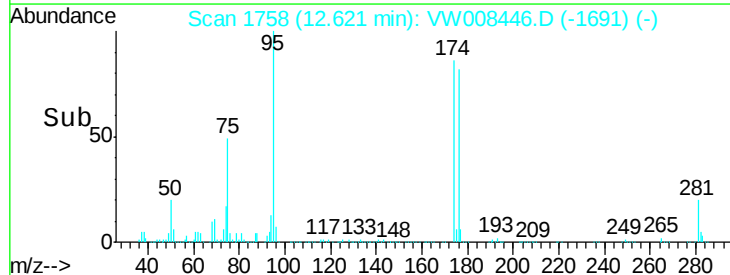
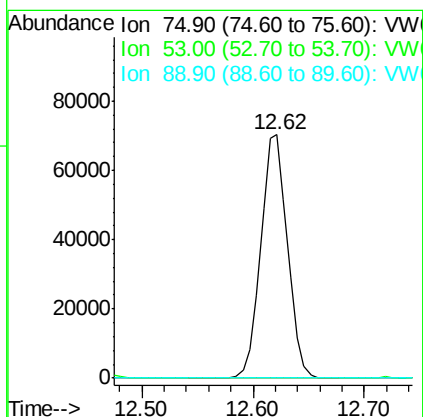
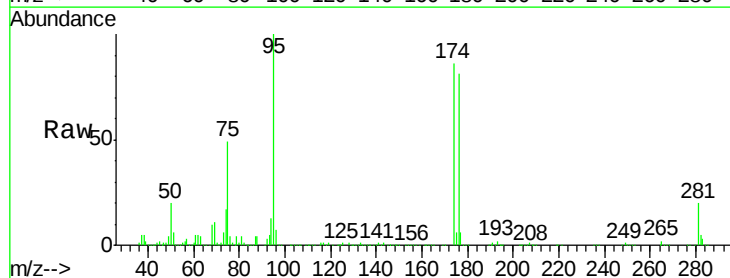
Tgt Ion: 75 Resp: 117461

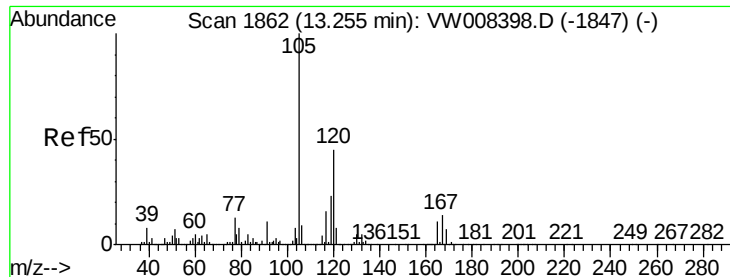
Ion Ratio Lower Upper

75 100

53 0.2 76.0 114.0#

89 0.3 35.4 53.0#





#84

1,2,4-Trimethylbenzene

Concen: 1.184 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

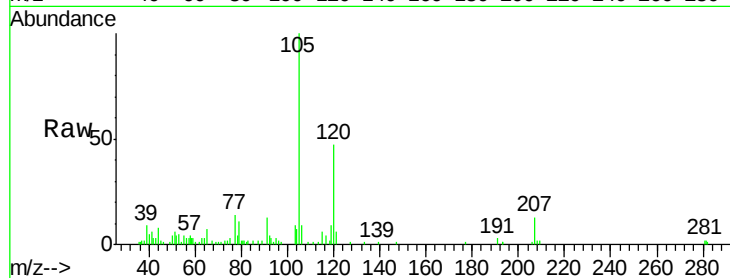
OK-03-012819-A

Tgt Ion:105 Resp: 14353

Ion Ratio Lower Upper

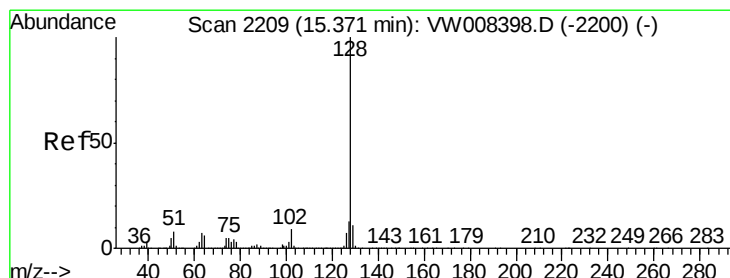
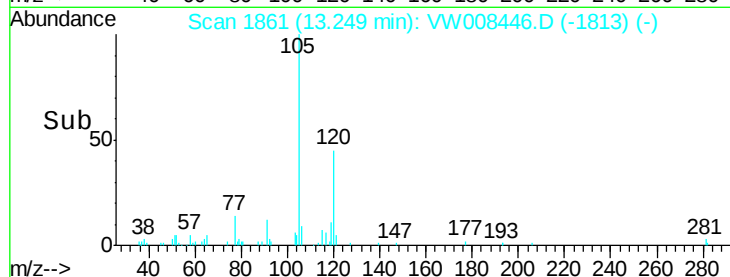
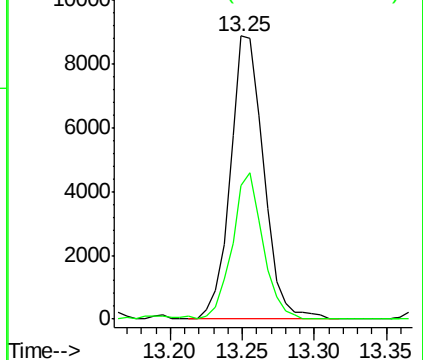
105 100

120 47.6 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 1.609 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW008446.D

Acq: 29 Jan 2019 12:35

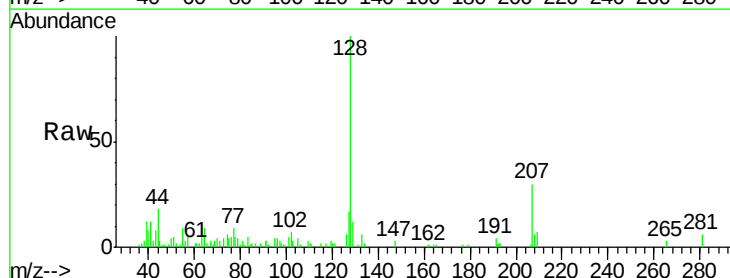
Tgt Ion:128 Resp: 11224

Ion Ratio Lower Upper

128 100

127 16.3 10.6 15.8#

129 14.7 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

