

Data File : VW008608.D
Acq On : 11 Feb 2019 20:01
Operator : SY/VA
Sample : K1461-01RE
Misc : 4.60G/5ML/MSVOA_W/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TEST-PIT-3RE

Quant Time: Feb 12 04:35:40 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	7.94	168	444328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	717849	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	648338	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	282359	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	253143	57.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.98%	
35) Dibromofluoromethane	7.88	113	225111	53.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.26%	
50) Toluene-d8	10.32	98	850102	50.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.00%	
62) 4-Bromofluorobenzene	12.62	95	298093	46.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.14%	

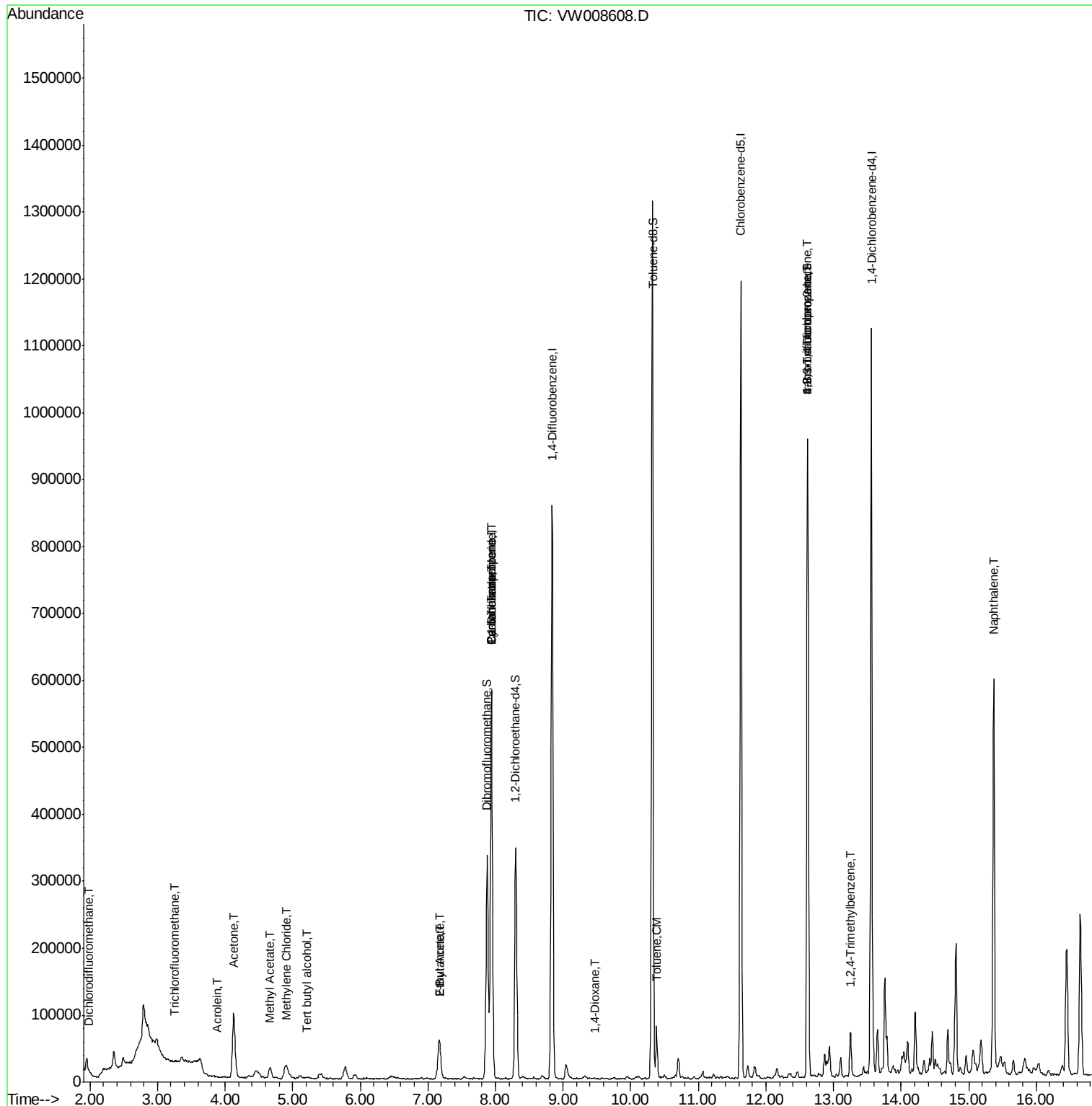
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	2.00	85	31	3.264	ug/l #	41
7) Trichlorofluoromethane	3.26	101	30	4.732	ug/l	93
11) Tert butyl alcohol	5.21	59	1183	3.366	ug/l #	70
13) Acrolein	3.89	56	1315	8.355	ug/l #	14
16) Acetone	4.13	43	176996	180.562	ug/l	97
18) Methyl Acetate	4.66	43	31090	11.891	ug/l	100
20) Methylene Chloride	4.90	84	18300	4.050	ug/l	88
25) 2-Butanone	7.18	43	66647	48.949	ug/l	96
31) Cyclohexane	7.95	56	10622	1.240	ug/l #	40
36) 1,1-Dichloropropene	7.94	75	34050	5.021	ug/l #	52
37) Ethyl Acetate	7.18	43	66647	22.215	ug/l #	74
38) Carbon Tetrachloride	7.94	117	42951	6.295	ug/l #	17
49) 1,4-Dioxane	9.48	88	72	1.765	ug/l #	1
52) Toluene	10.38	92	31842	2.564	ug/l	100
76) 1,2,3-Trichloropropane	12.62	75	157964	64.346	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	157964	127.089	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.25	105	35703	1.996	ug/l	97
95) Naphthalene	15.37	128	496568	48.241	ug/l	99

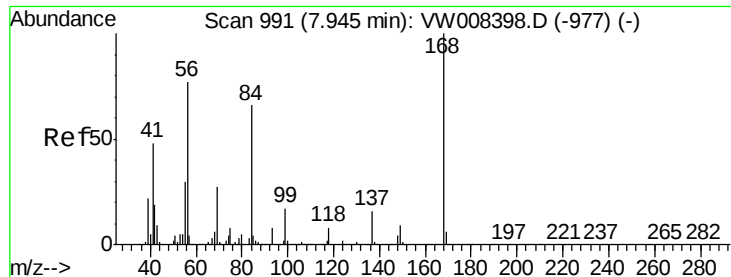
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

Instrument :

MSVOA_W

ClientSampleId :

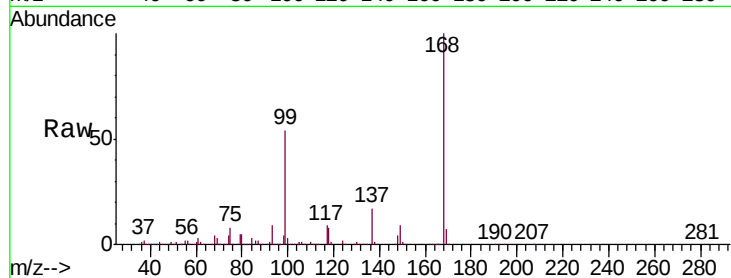
TEST-PIT-3RE

Tgt Ion:168 Resp: 444328

Ion Ratio Lower Upper

168 100

99 53.7 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.94

200000

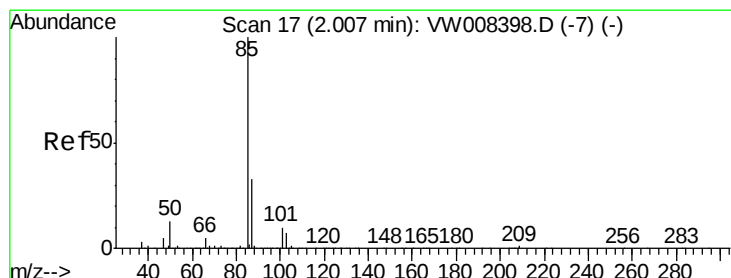
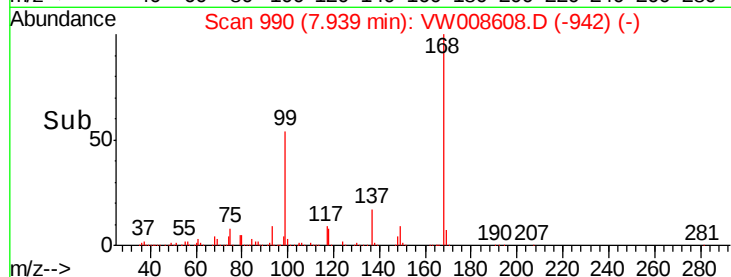
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.264 ug/l

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW008608.D

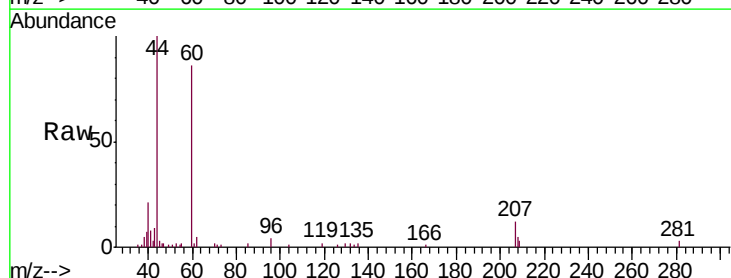
Acq: 11 Feb 2019 20:01

Tgt Ion: 85 Resp: 31

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

100

80

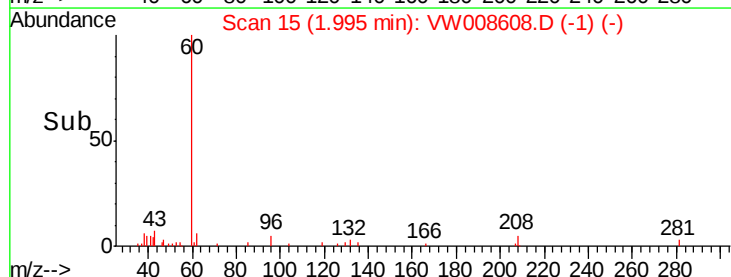
60

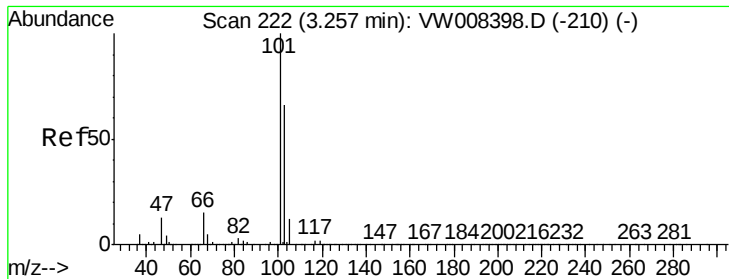
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20

0

Time-->



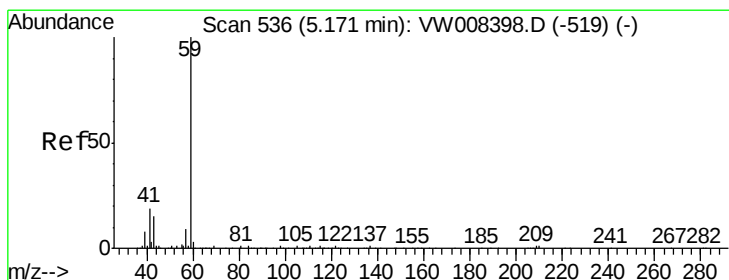
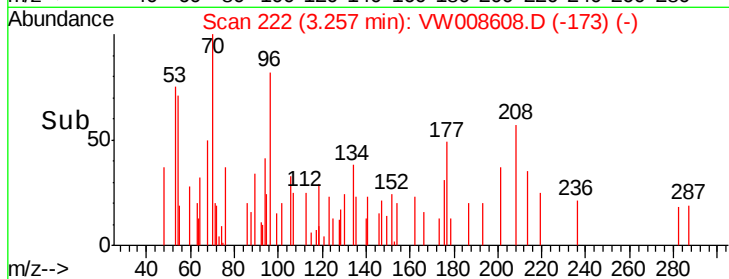
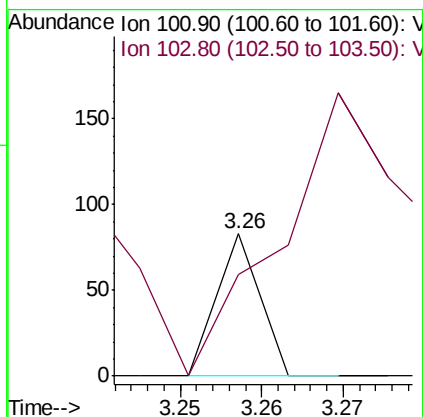
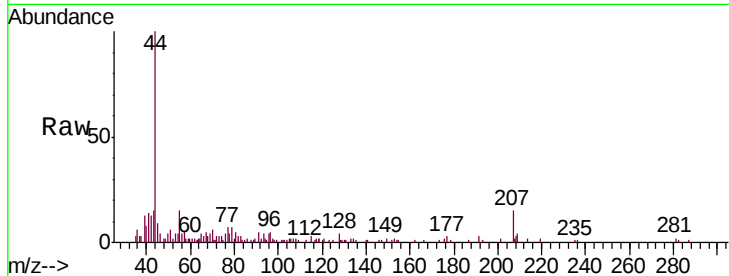


#7

Trichlorofluoromethane
 Concen: 4.732 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VW008608.D
 Acq: 11 Feb 2019 20:01

Instrument :
 MSVOA_W
 ClientSampleId :
 TEST-PIT-3RE

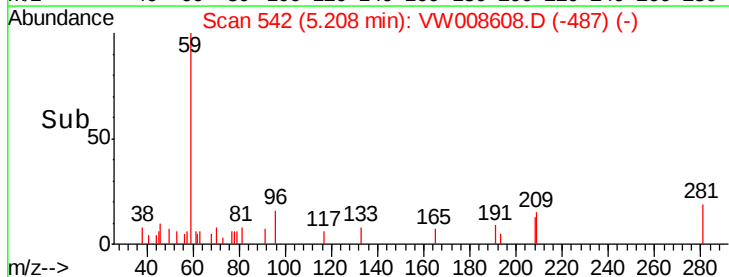
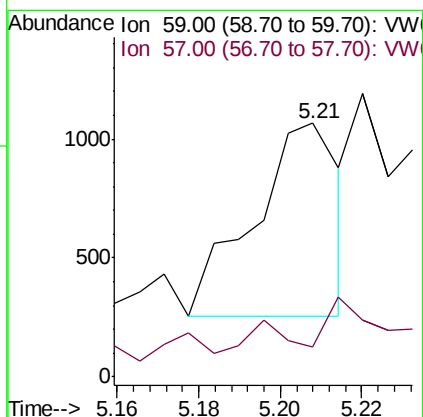
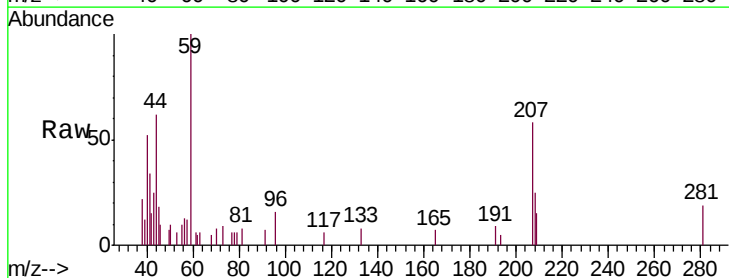
Tgt Ion: 101 Resp: 30
 Ion Ratio Lower Upper
 101 100
 103 71.1 52.5 78.7

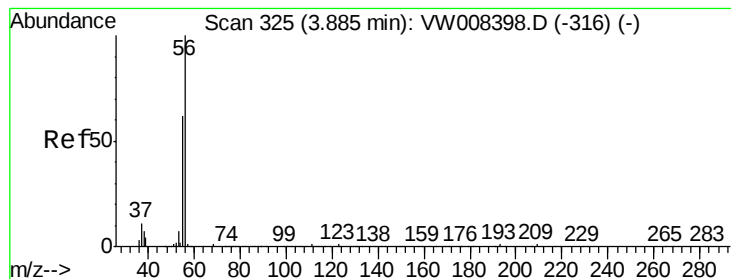


#11

Tert butyl alcohol
 Concen: 3.366 ug/l
 RT: 5.21 min Scan# 542
 Delta R.T. 0.04 min
 Lab File: VW008608.D
 Acq: 11 Feb 2019 20:01

Tgt Ion: 59 Resp: 1183
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#





#13

Acrolein

Concen: 8.355 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

Instrument :

MSVOA_W

ClientSampleId :

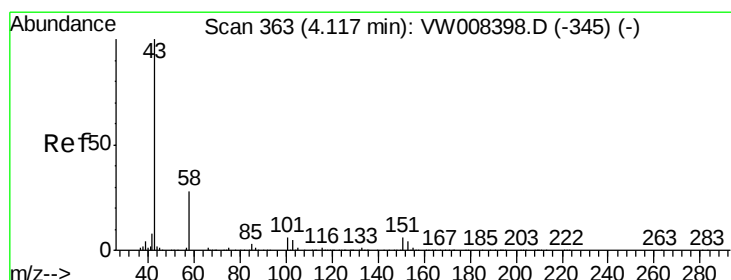
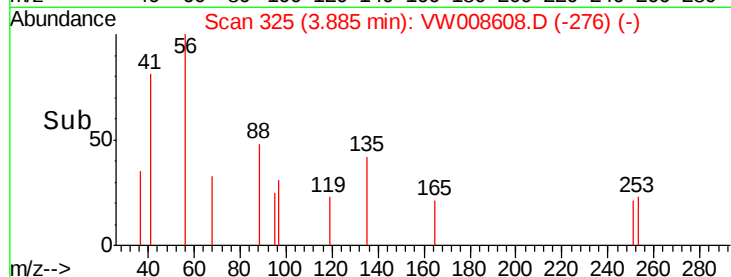
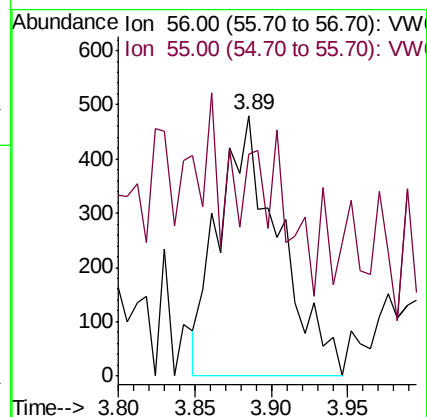
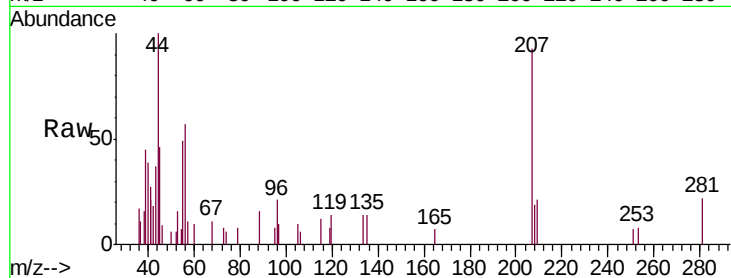
TEST-PIT-3RE

Tgt Ion: 56 Resp: 1315

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 180.562 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008608.D

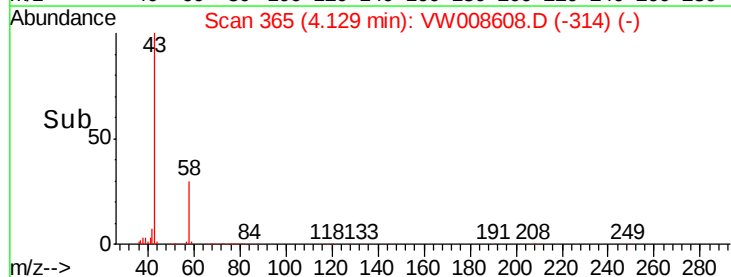
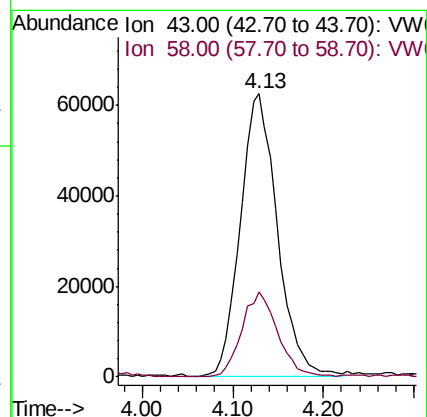
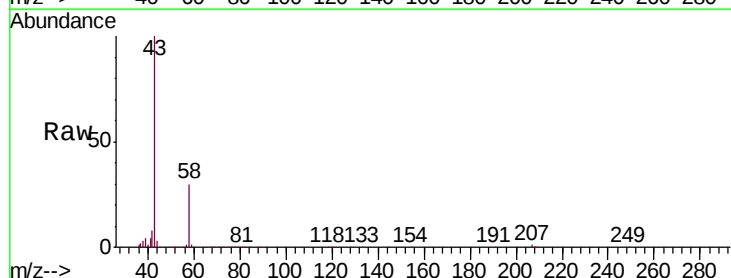
Acq: 11 Feb 2019 20:01

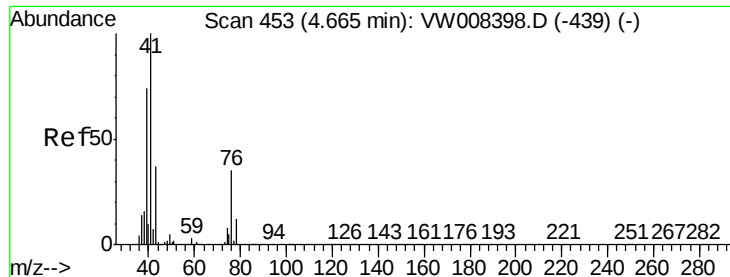
Tgt Ion: 43 Resp: 176996

Ion Ratio Lower Upper

43 100

58 29.8 22.6 34.0

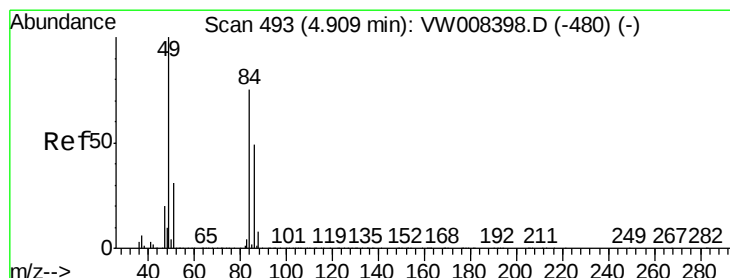
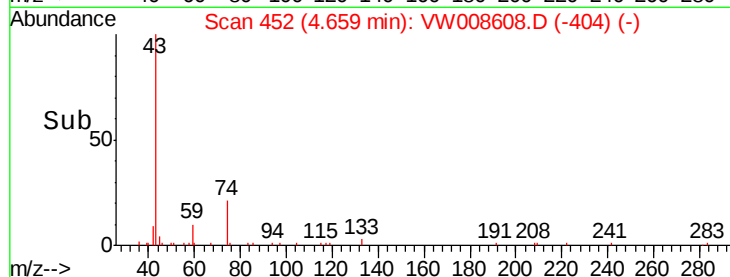
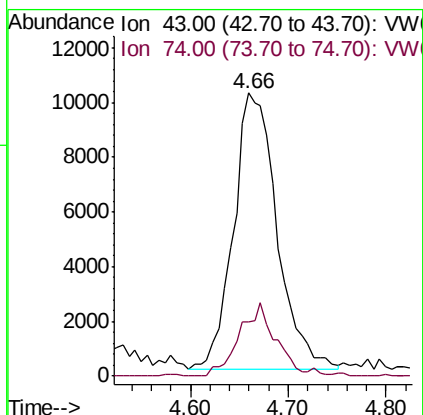
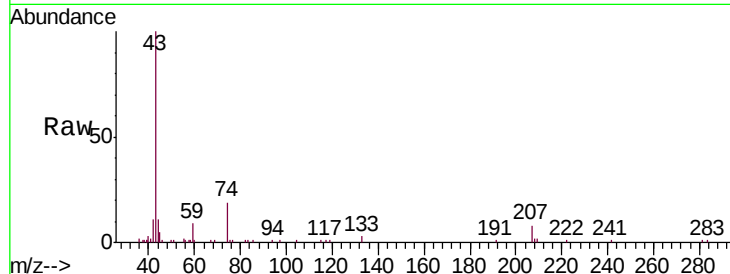




#18
Methyl Acetate
Concen: 11.891 ug/l
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW008608.D
Acq: 11 Feb 2019 20:01

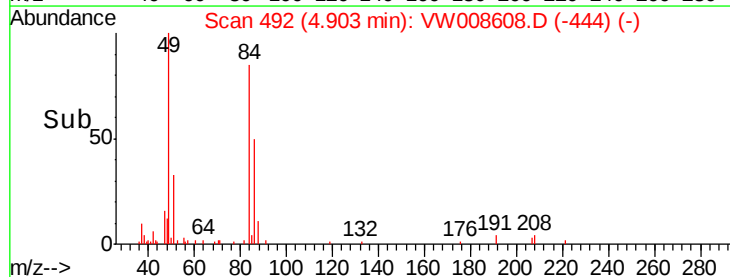
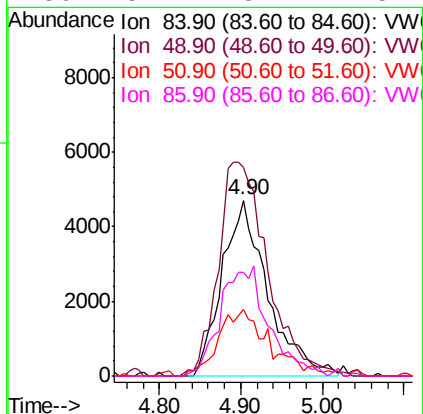
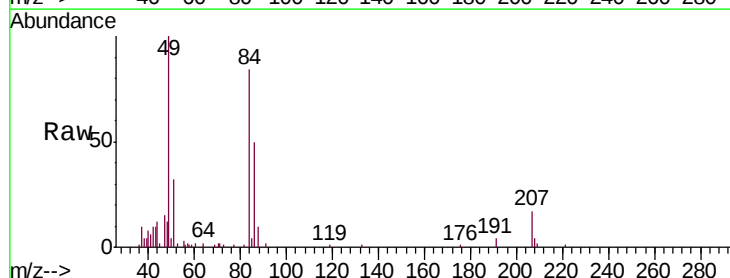
Instrument :
MSVOA_W
ClientSampleId :
TEST-PIT-3RE

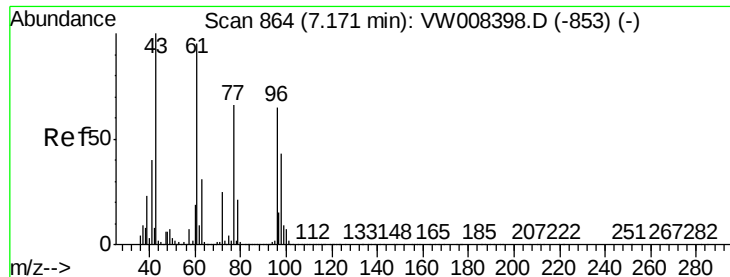
Tgt Ion: 43 Resp: 31090
Ion Ratio Lower Upper
43 100
74 22.0 17.5 26.3



#20
Methylene Chloride
Concen: 4.050 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW008608.D
Acq: 11 Feb 2019 20:01

Tgt Ion: 84 Resp: 18300
Ion Ratio Lower Upper
84 100
49 116.6 106.8 160.2
51 35.5 32.9 49.3
86 57.2 52.2 78.2





#25

2-Butanone

Concen: 48.949 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

Instrument :

MSVOA_W

ClientSampleId :

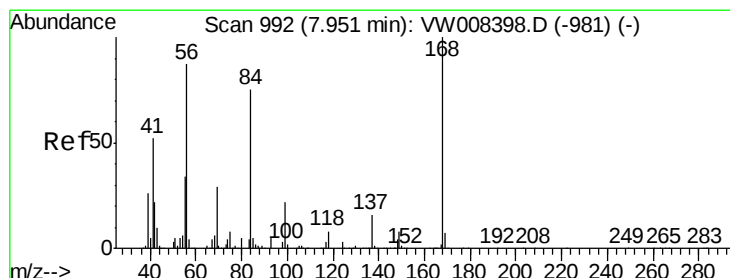
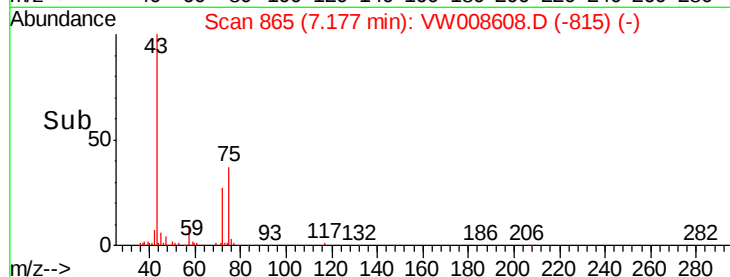
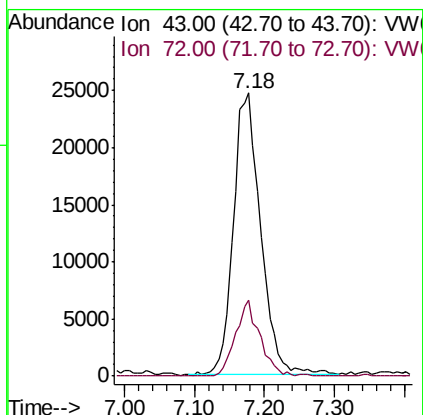
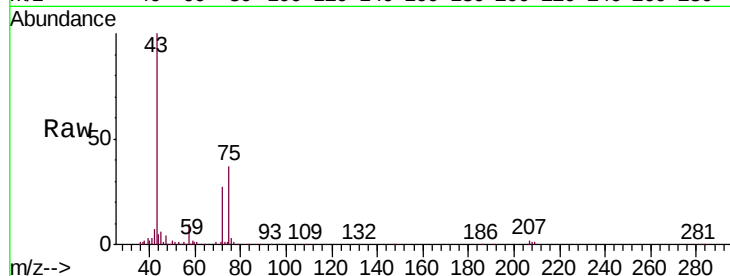
TEST-PIT-3RE

Tgt Ion: 43 Resp: 66647

Ion Ratio Lower Upper

43 100

72 27.1 20.1 30.1



#31

Cyclohexane

Concen: 1.240 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

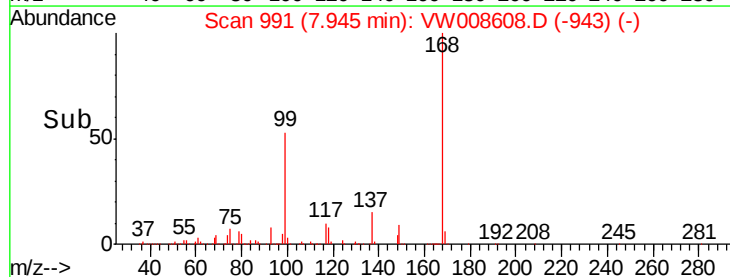
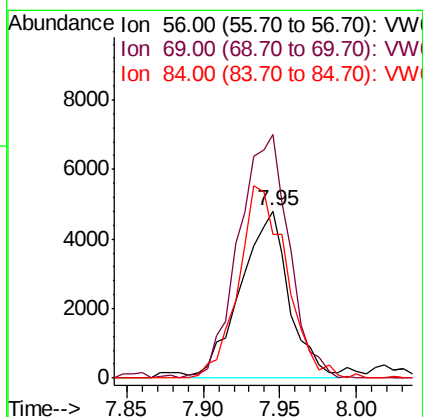
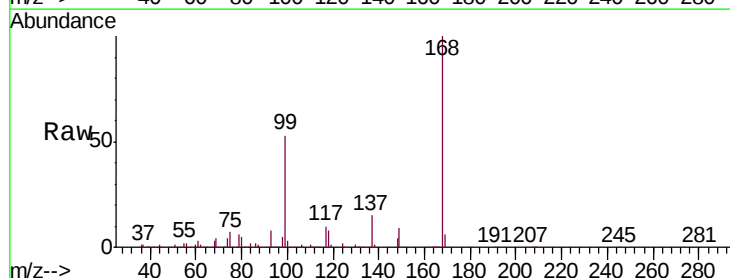
Tgt Ion: 56 Resp: 10622

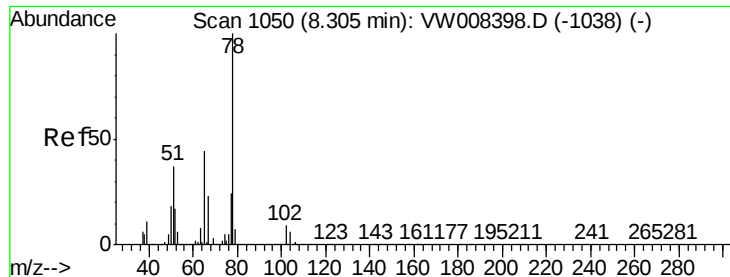
Ion Ratio Lower Upper

56 100

69 150.7 26.4 39.6#

84 89.2 69.1 103.7





#33

1,2-Dichloroethane-d4

Concen: 57.992 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

Instrument :

MSVOA_W

ClientSampleId :

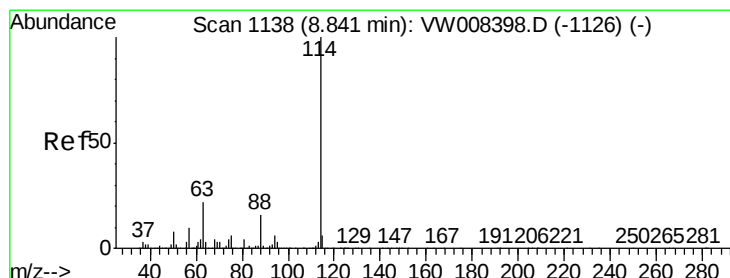
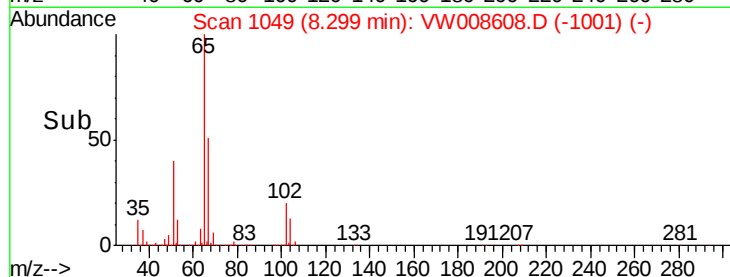
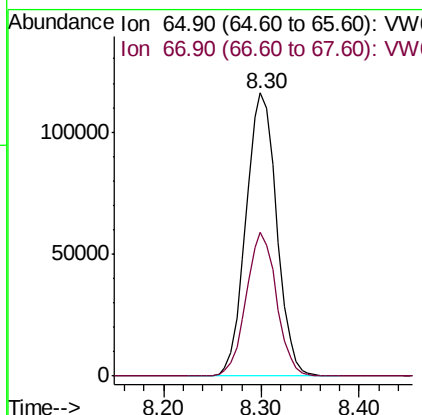
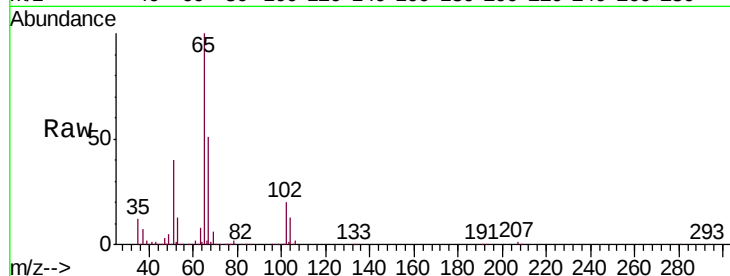
TEST-PIT-3RE

Tgt Ion: 65 Resp: 253143

Ion Ratio Lower Upper

65 100

67 50.2 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

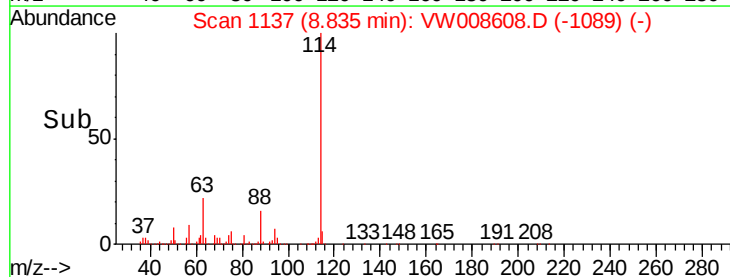
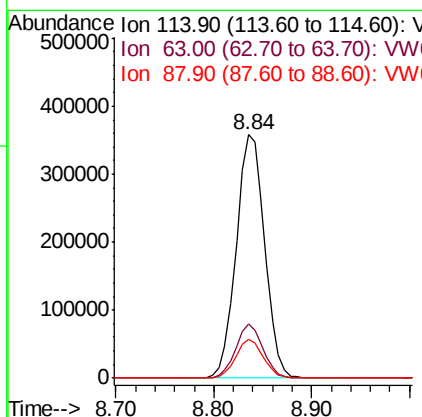
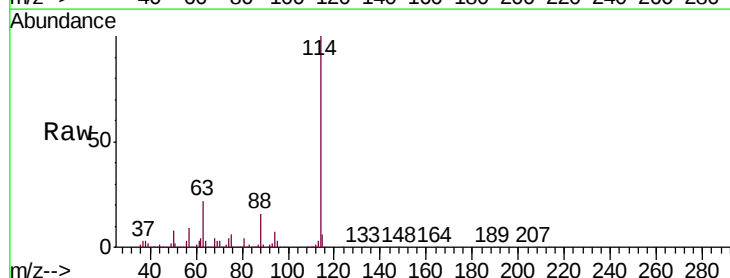
Tgt Ion: 114 Resp: 717849

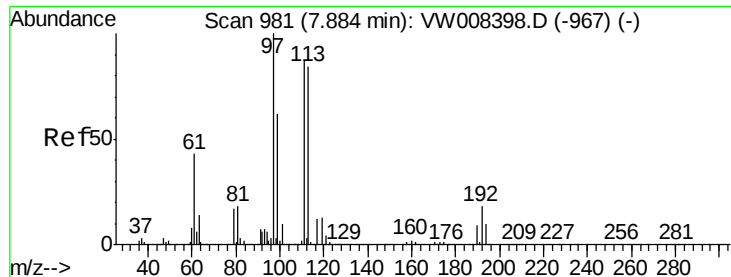
Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.6

88 16.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.630 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

Instrument :

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TEST-PIT-3RE

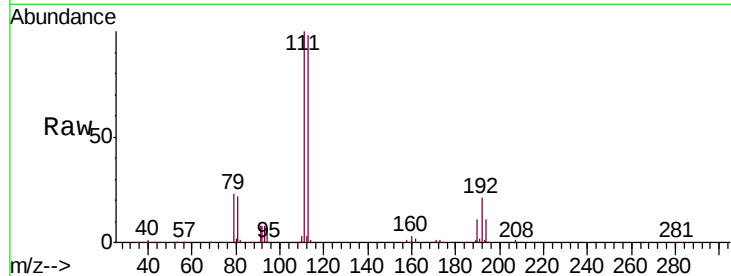
Tgt Ion:113 Resp: 225111

Ion Ratio Lower Upper

113 100

111 104.2 81.0 121.4

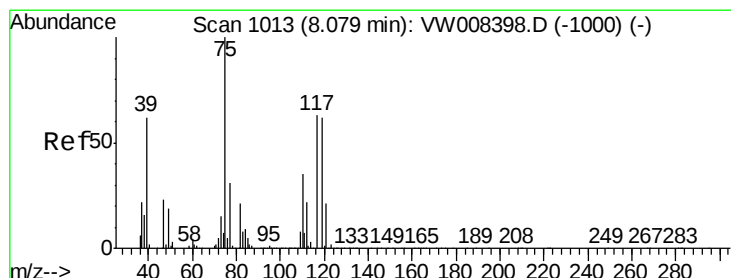
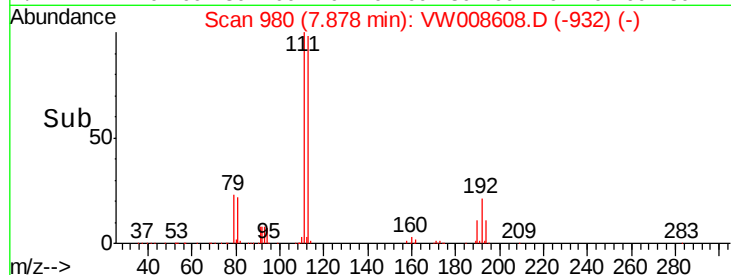
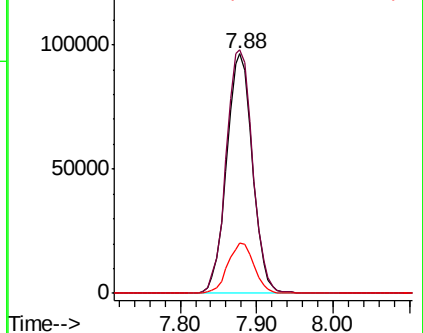
192 21.3 16.8 25.2



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: 5.021 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

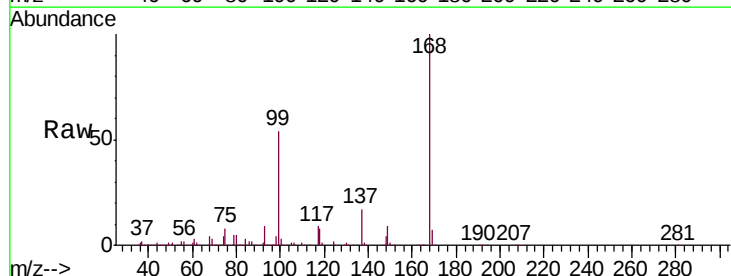
Tgt Ion: 75 Resp: 34050

Ion Ratio Lower Upper

75 100

110 10.7 17.3 52.0#

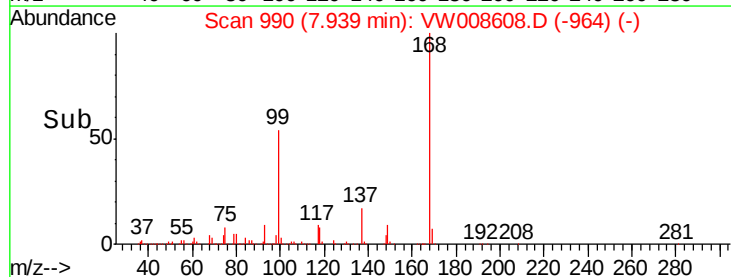
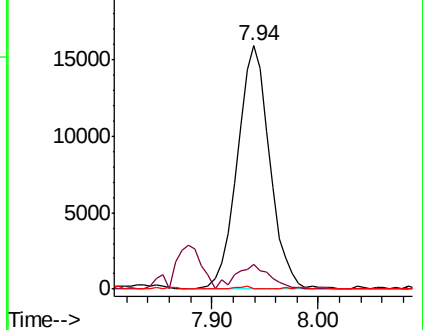
77 0.4 24.7 37.1#

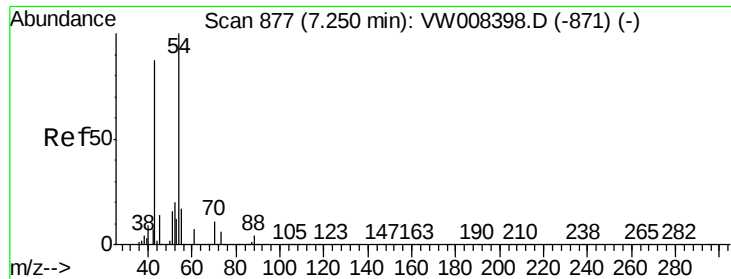


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

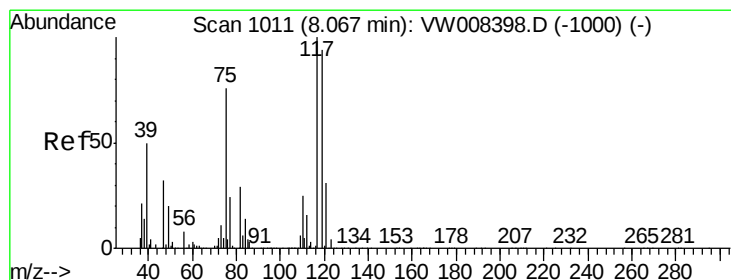
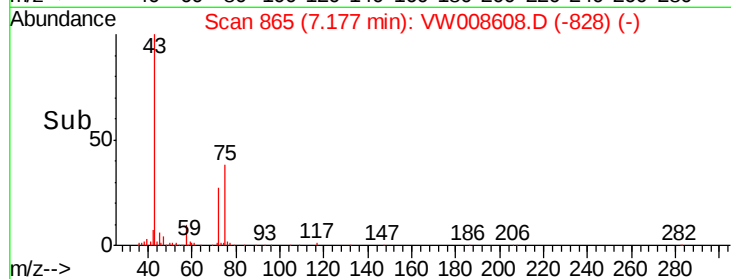
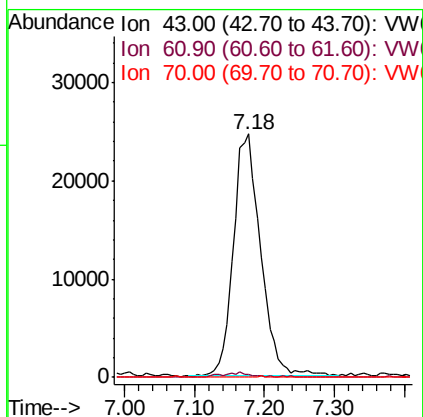
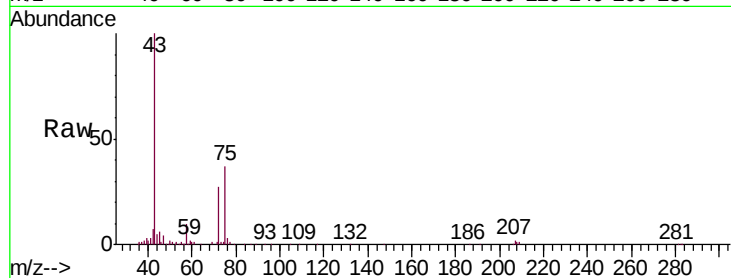




#37
Ethyl Acetate
Concen: 22.215 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.07 min
Lab File: VW008608.D
Acq: 11 Feb 2019 20:01

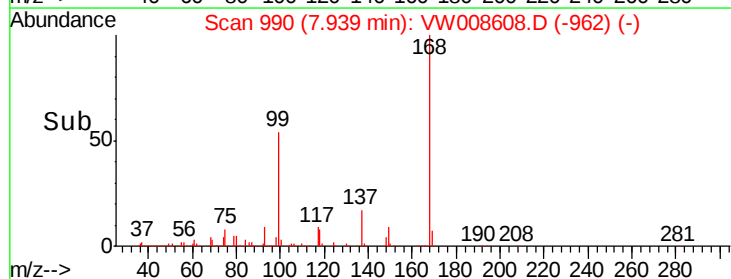
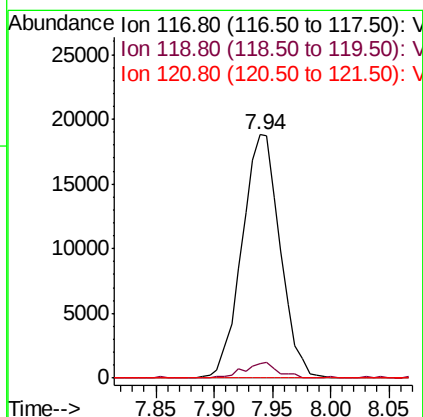
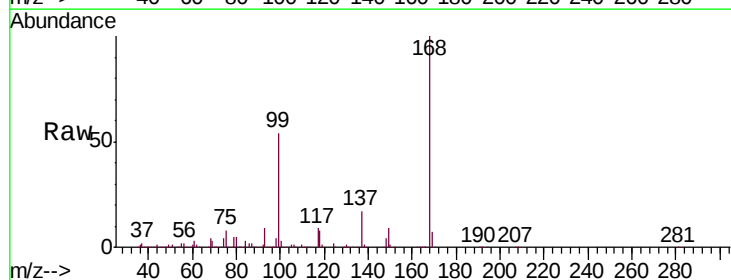
Instrument :
MSVOA_W
ClientSampleId :
TEST-PIT-3RE

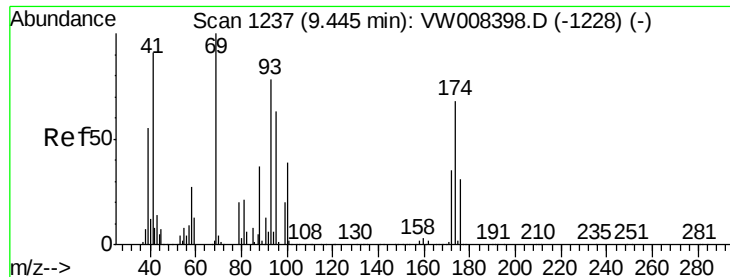
Tgt Ion: 43 Resp: 66647
Ion Ratio Lower Upper
43 100
61 2.1 10.1 15.1#
70 0.0 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 6.295 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW008608.D
Acq: 11 Feb 2019 20:01

Tgt Ion: 117 Resp: 42951
Ion Ratio Lower Upper
117 100
119 5.8 75.0 112.4#
121 0.0 24.9 37.3#

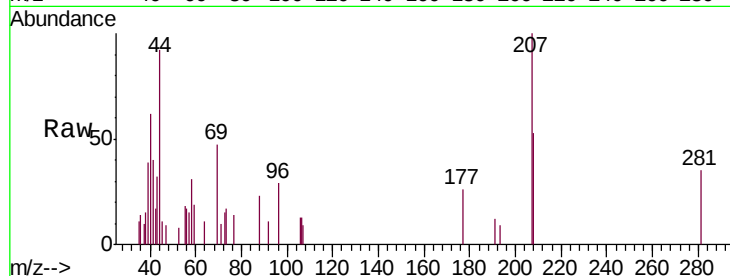




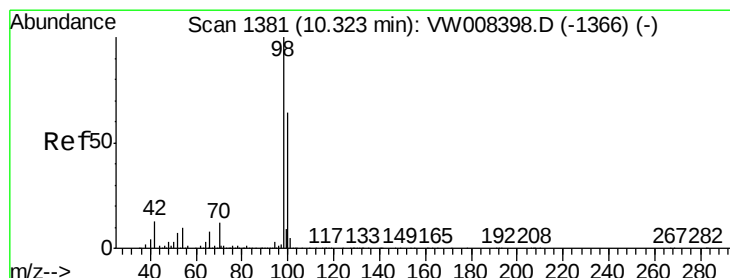
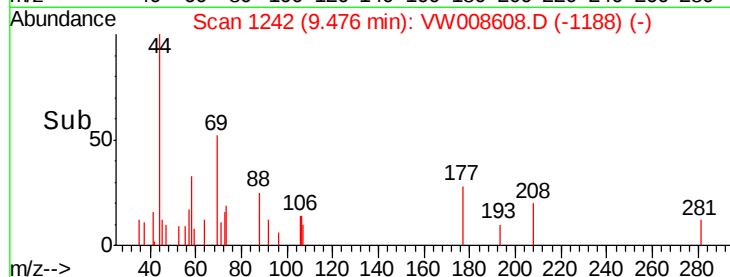
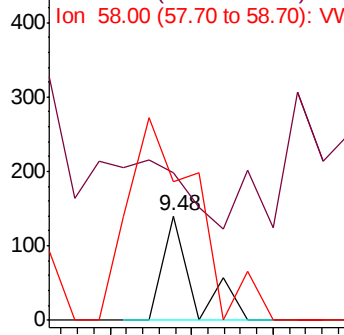
#49
1,4-Dioxane
Concen: 1.765 ug/l
RT: 9.48 min Scan# 1242
Delta R.T. 0.03 min
Lab File: VW008608.D
Acq: 11 Feb 2019 20:01

Instrument :
MSVOA_W
ClientSampleId :
TEST-PIT-3RE

Tgt Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 0.0 29.0 43.4#
58 438.9 56.4 84.6#

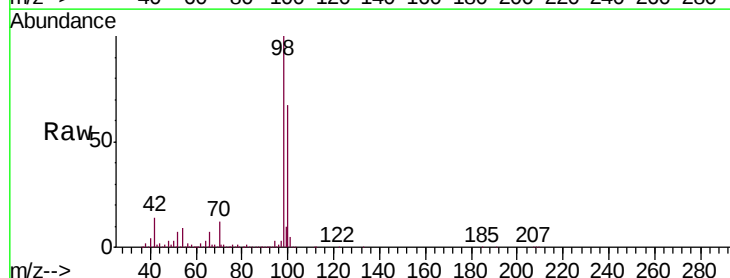


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

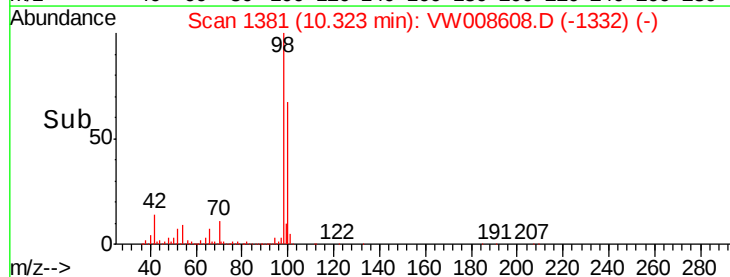
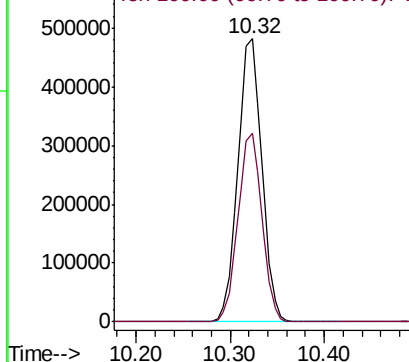


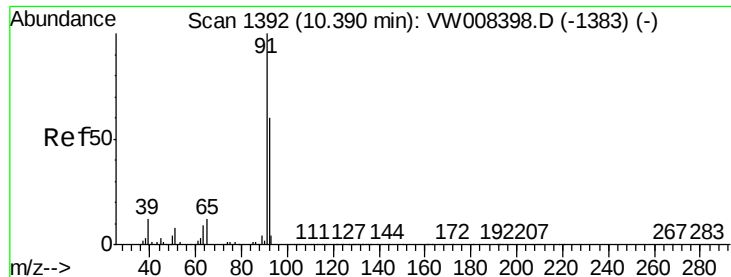
#50
Toluene-d8
Concen: 50.505 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008608.D
Acq: 11 Feb 2019 20:01

Tgt Ion: 98 Resp: 850102
Ion Ratio Lower Upper
98 100
100 66.6 52.6 78.8



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





#52

Toluene

Concen: 2.564 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

Instrument :

MSVOA_W

ClientSampleId :

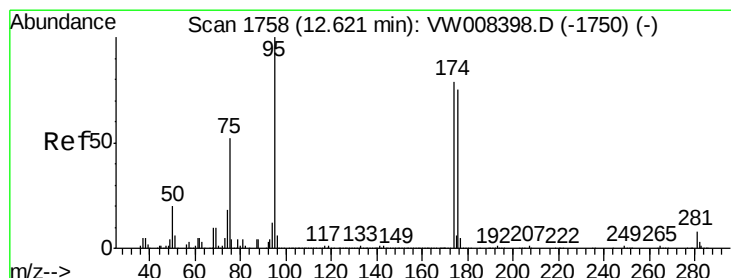
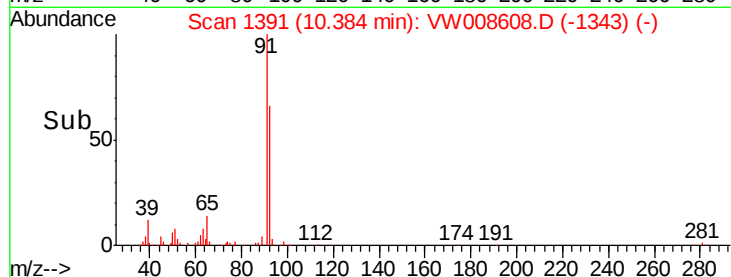
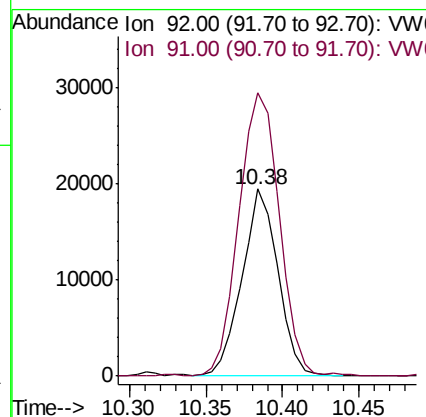
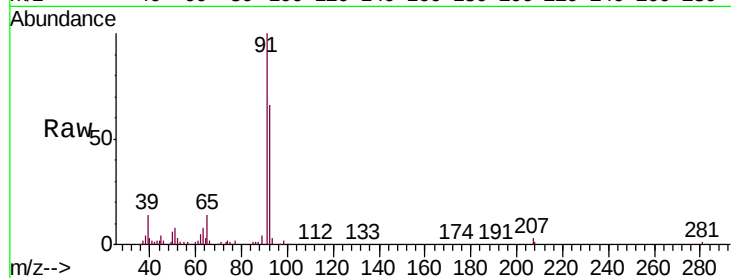
TEST-PIT-3RE

Tgt Ion: 92 Resp: 31842

Ion Ratio Lower Upper

92 100

91 169.5 135.5 203.3



#62

4-Bromofluorobenzene

Concen: 46.073 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

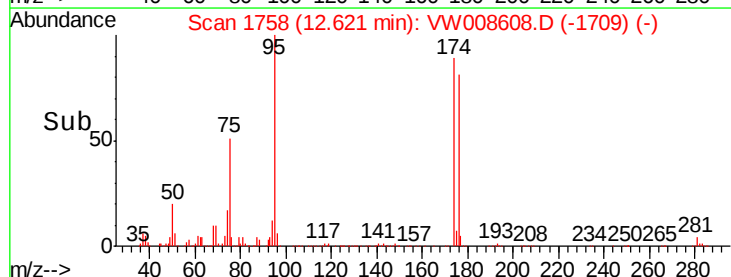
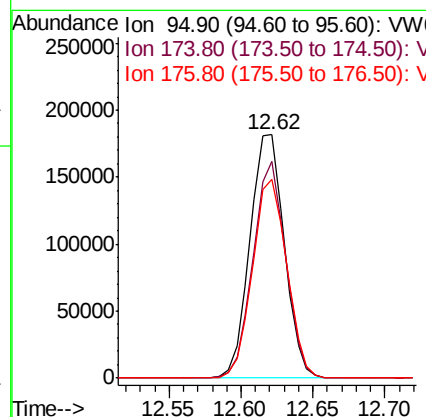
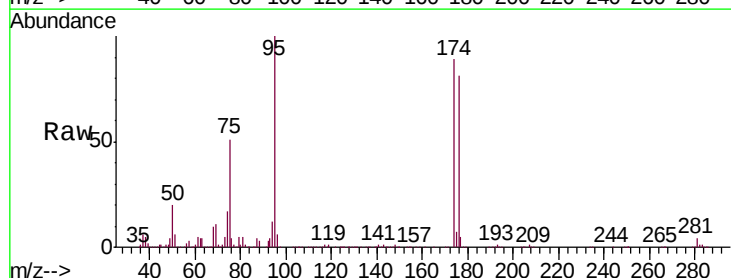
Tgt Ion: 95 Resp: 298093

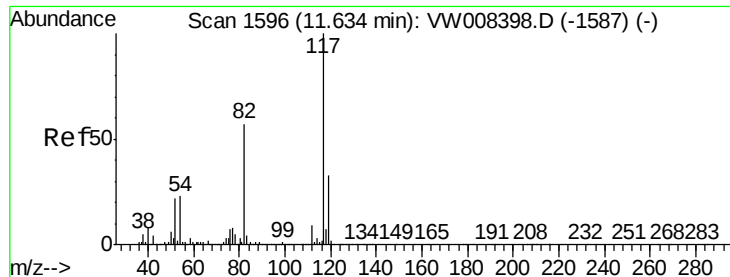
Ion Ratio Lower Upper

95 100

174 85.0 0.0 157.6

176 81.8 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

Instrument :

MSVOA_W

ClientSampleId :

TEST-PIT-3RE

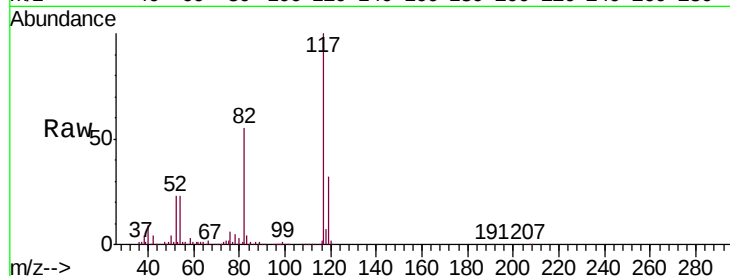
Tgt Ion:117 Resp: 648338

Ion Ratio Lower Upper

117 100

82 55.5 45.4 68.0

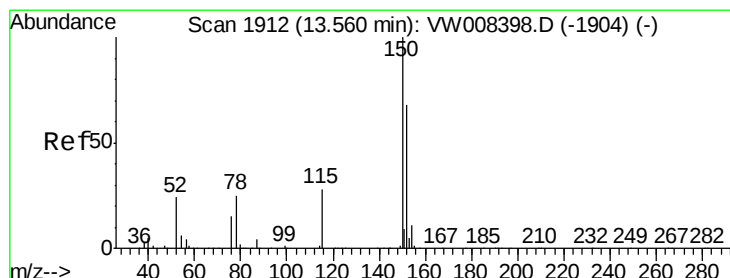
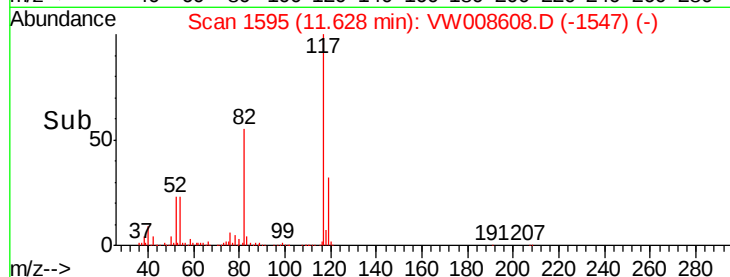
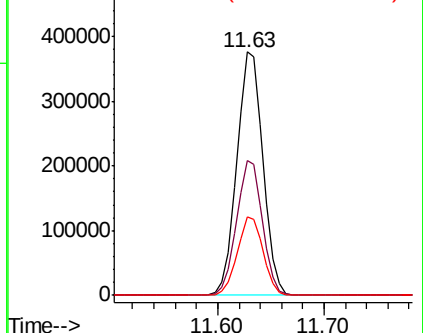
119 32.5 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

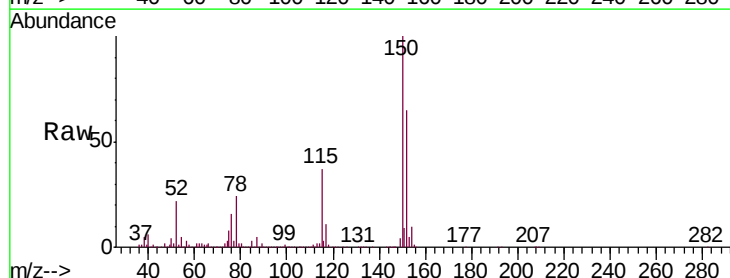
Tgt Ion:152 Resp: 282359

Ion Ratio Lower Upper

152 100

115 57.5 29.9 89.7

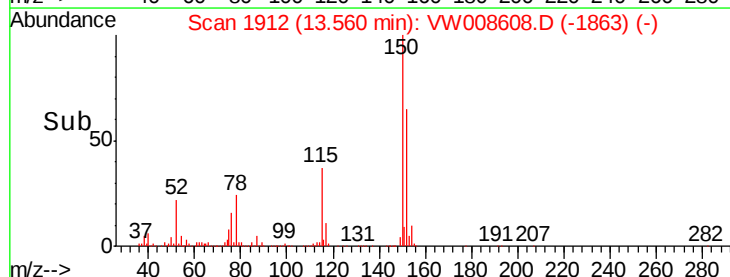
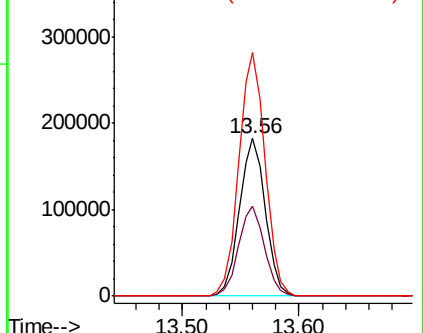
150 156.8 0.0 351.4

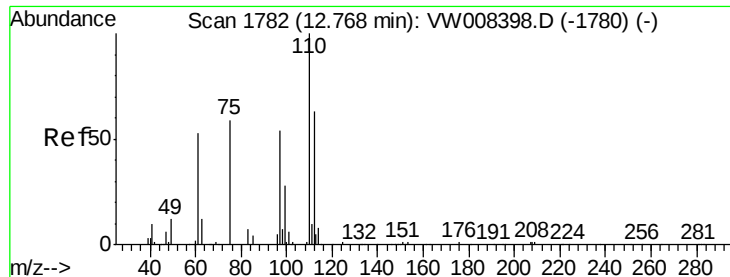


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 64.346 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

Instrument :

MSVOA_W

ClientSampled :

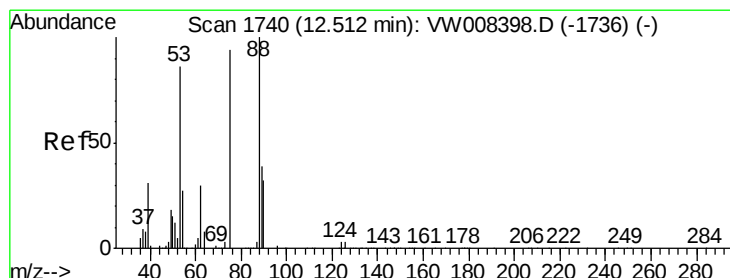
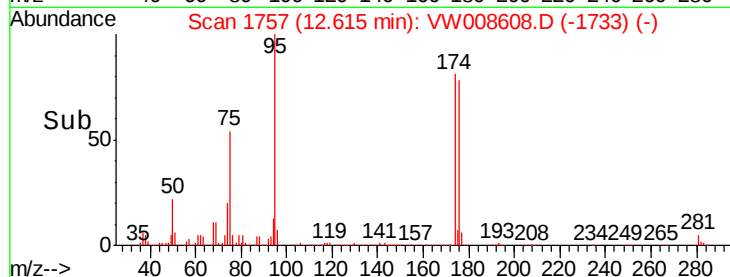
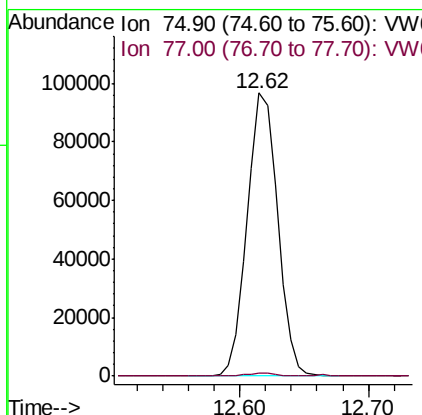
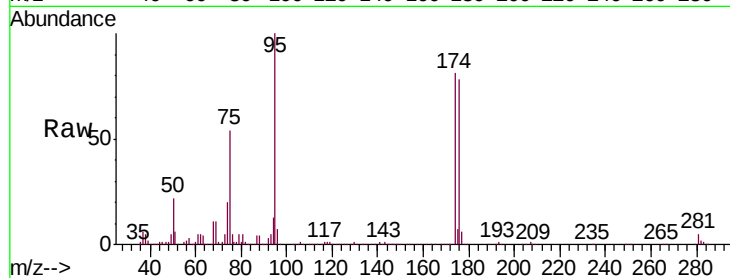
TEST-PIT-3RE

Tgt Ion: 75 Resp: 157964

Ion Ratio Lower Upper

75 100

77 1.4 180.7 542.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 127.089 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

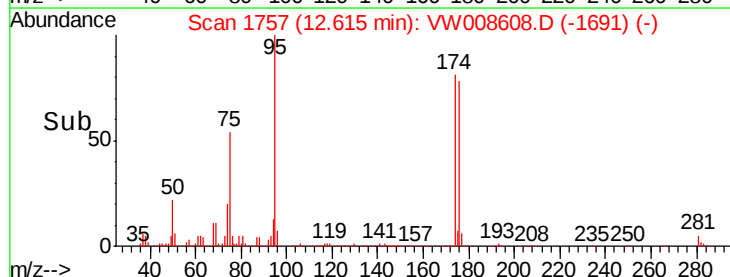
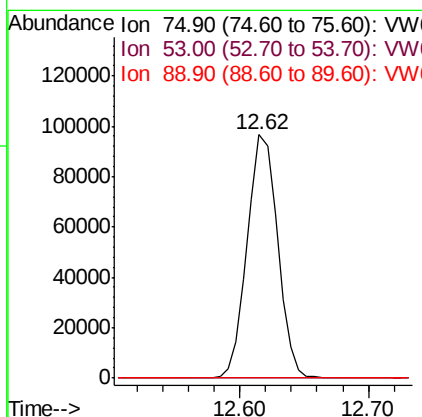
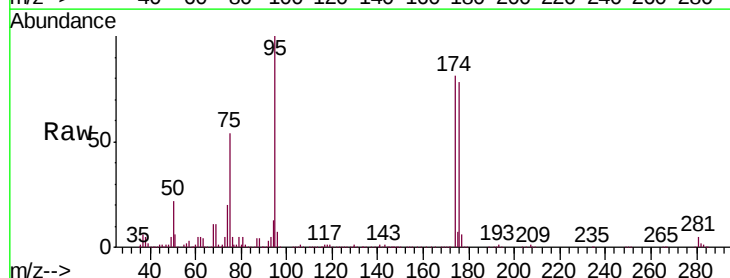
Tgt Ion: 75 Resp: 157964

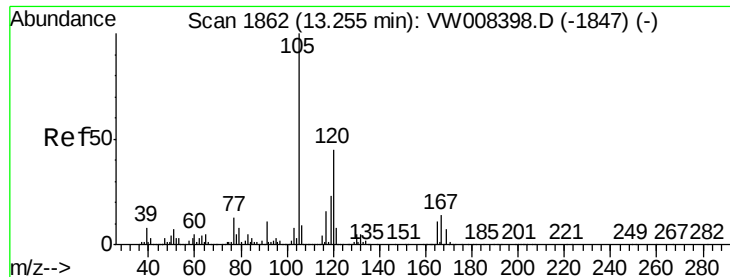
Ion Ratio Lower Upper

75 100

53 0.1 76.0 114.0#

89 0.1 35.4 53.0#





#84

1,2,4-Trimethylbenzene

Concen: 1.996 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

Instrument :

MSVOA_W

ClientSampleId :

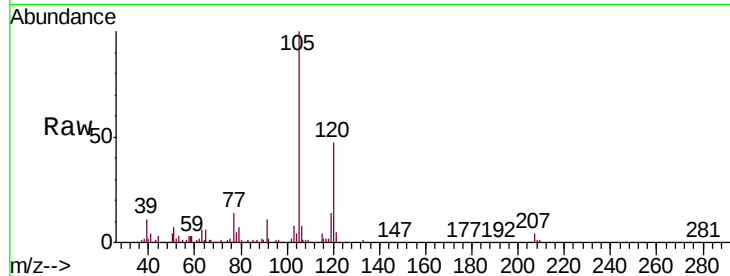
TEST-PIT-3RE

Tgt Ion:105 Resp: 35703

Ion Ratio Lower Upper

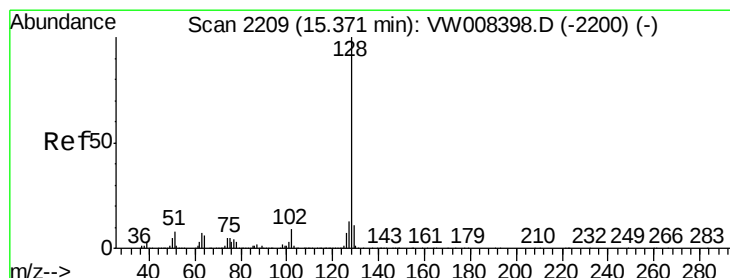
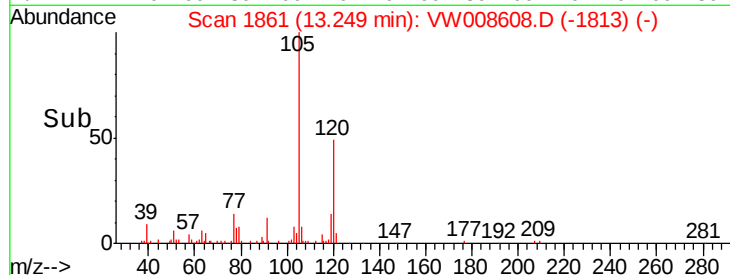
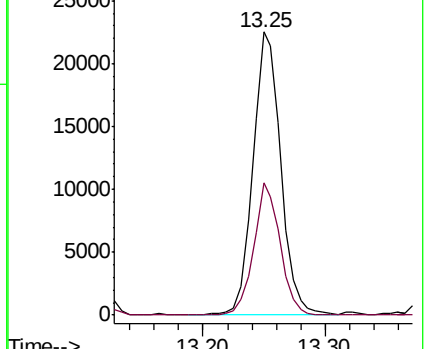
105 100

120 44.1 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: 48.241 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008608.D

Acq: 11 Feb 2019 20:01

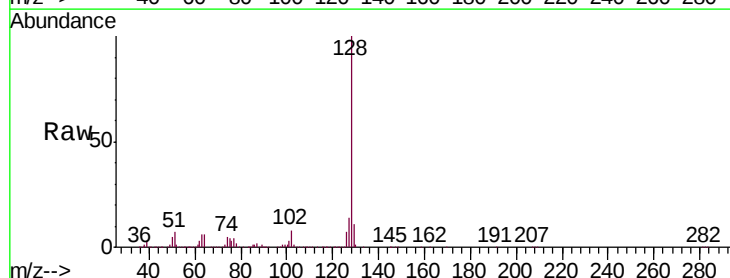
Tgt Ion:128 Resp: 496568

Ion Ratio Lower Upper

128 100

127 13.7 10.6 15.8

129 10.9 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

