

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW031219\
 Data File : VW009131.D
 Acq On : 12 Mar 2019 18:33
 Operator : SY/VA
 Sample : K1692-01RE
 Misc : 6.04G/5ML/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-01-030819RE

Quant Time: Mar 13 01:55:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

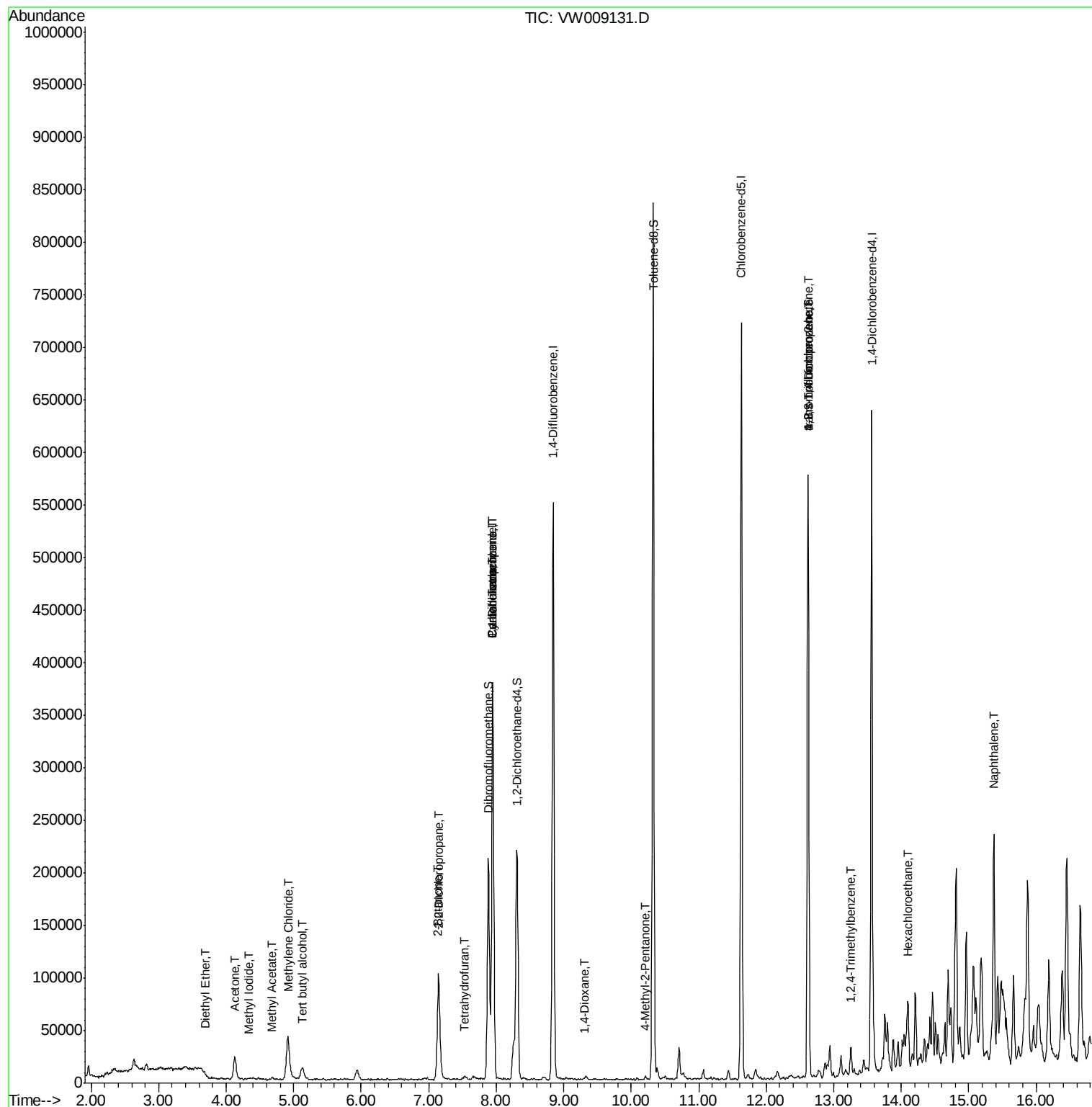
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	278297	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	442388	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	380635	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	153605	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	170314	60.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	121.66%	
35) Dibromofluoromethane	7.88	113	141725	53.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.42%	
50) Toluene-d8	10.32	98	524204	47.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.84%	
62) 4-Bromofluorobenzene	12.62	95	159216	36.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	73.94%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.70	74	1787	1.255	ug/l	57
10) Methyl Iodide	4.33	142	24	3.195	ug/l #	40
11) Tert butyl alcohol	5.12	59	10207	47.572	ug/l #	76
16) Acetone	4.12	43	37268	58.984	ug/l	96
18) Methyl Acetate	4.68	43	4443	3.058	ug/l #	82
20) Methylene Chloride	4.92	84	31085	5.645	ug/l	97
25) 2-Butanone	7.13	43	6004	6.876	ug/l #	74
26) 2,2-Dichloropropane	7.15	77	6595	1.427	ug/l #	54
29) Tetrahydrofuran	7.52	42	1850	3.362	ug/l #	56
31) Cyclohexane	7.95	56	7465	1.430	ug/l #	16
36) 1,1-Dichloropropene	7.95	75	21819	4.717	ug/l #	51
38) Carbon Tetrachloride	7.95	117	27637	5.785	ug/l #	18
49) 1,4-Dioxane	9.31	88	56	2.315	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	2327	1.133	ug/l #	69
76) 1,2,3-Trichloropropane	12.62	75	89146	73.455	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	89146	164.300	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.26	105	14590	1.521	ug/l	94
90) Hexachloroethane	14.10	117	3956	2.164	ug/l #	10
95) Naphthalene	15.37	128	166306	32.281	ug/l	100

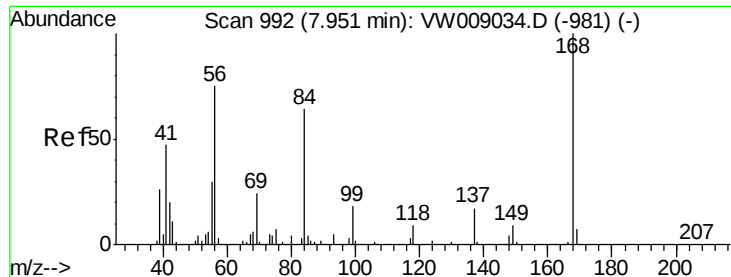
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

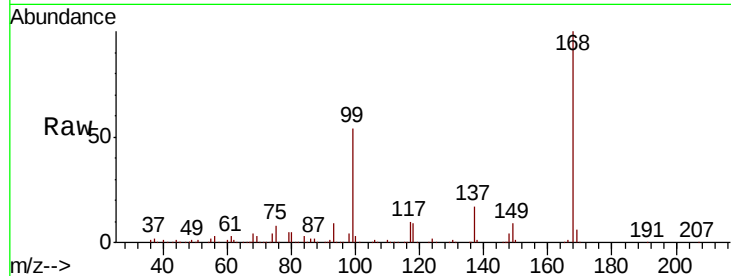
OK-01-030819RE

Tgt Ion:168 Resp: 278297

Ion Ratio Lower Upper

168 100

99 53.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

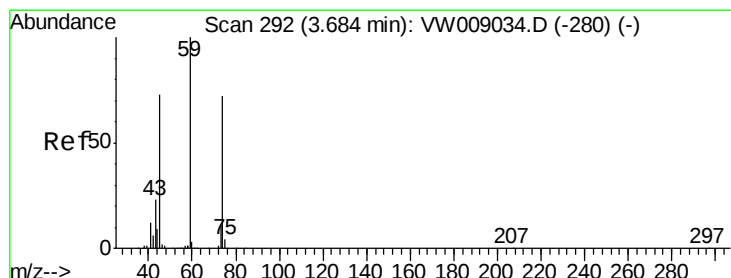
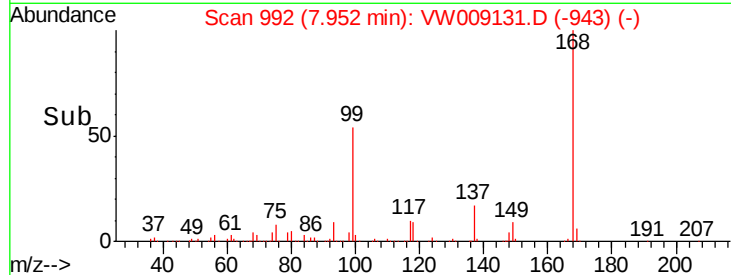
100000

50000

0

7.80 7.90 8.00 8.10

Time-->



#8

Diethyl Ether

Concen: 1.255 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.01 min

Lab File: VW009131.D

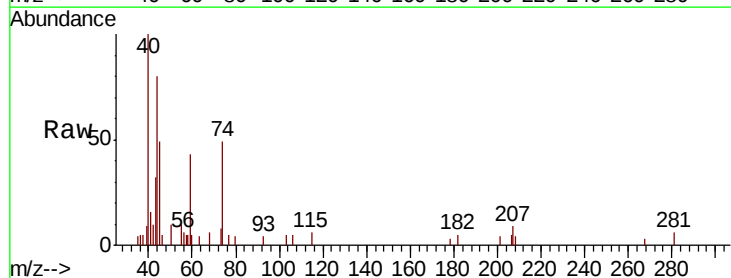
Acq: 12 Mar 2019 18:33

Tgt Ion: 74 Resp: 1787

Ion Ratio Lower Upper

74 100

45 148.6 52.3 157.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.70

1200

1000

800

600

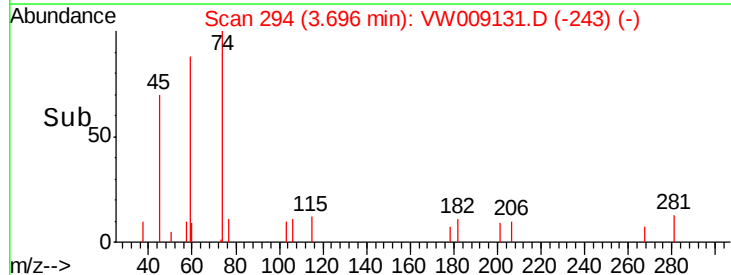
400

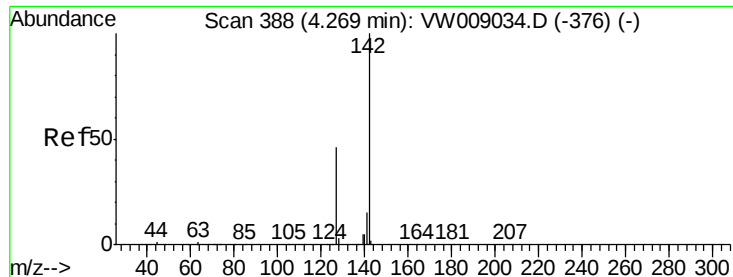
200

0

3.60 3.65 3.70 3.75

Time-->

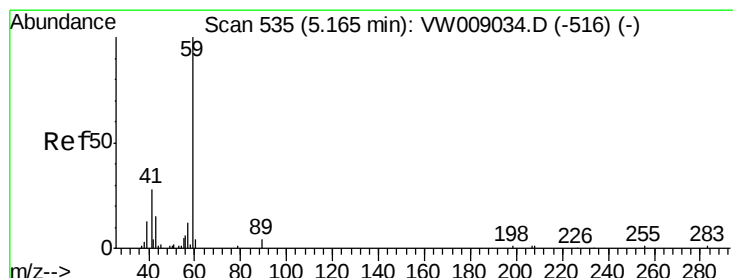
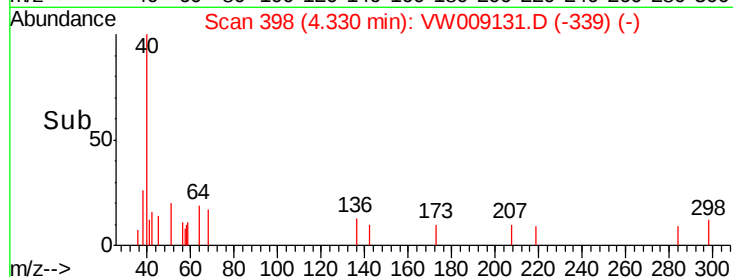
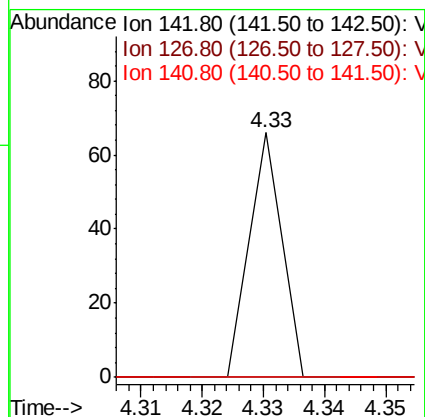
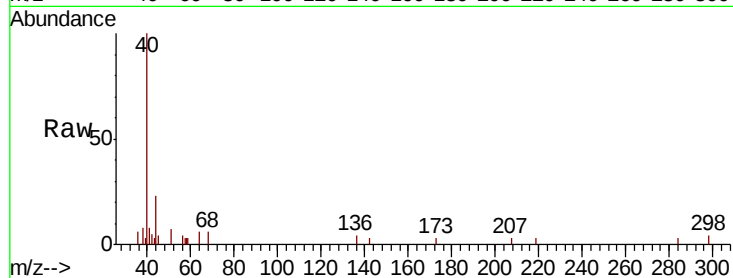




#10
Methyl Iodide
Concen: 3.195 ug/l
RT: 4.33 min Scan# 398
Delta R.T. 0.06 min
Lab File: VW009131.D
Acq: 12 Mar 2019 18:33

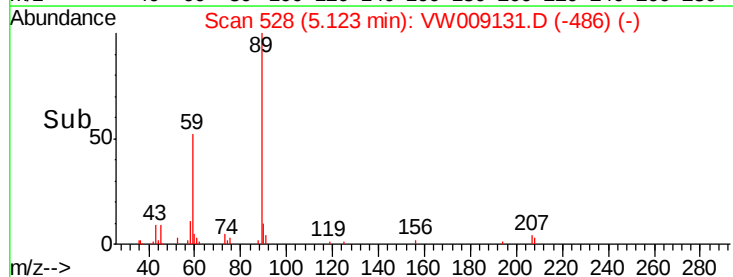
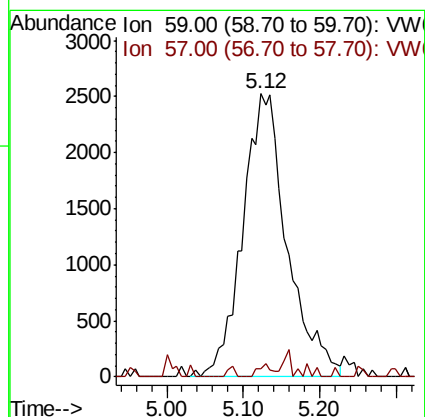
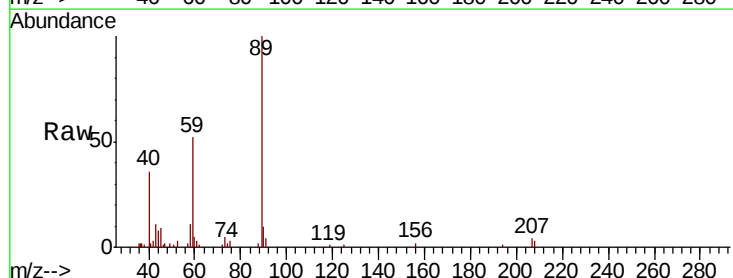
Instrument :
MSVOA_W
ClientSampleId :
OK-01-030819RE

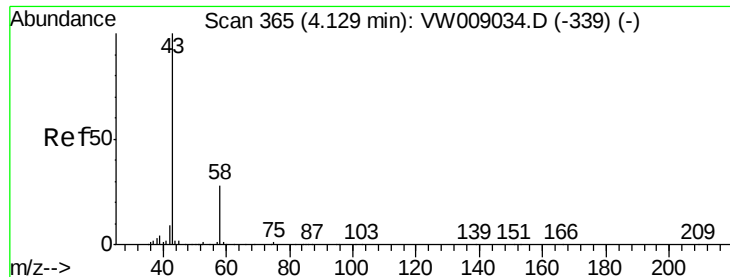
Tgt Ion:142 Resp: 24
Ion Ratio Lower Upper
142 100
127 0.0 35.8 53.6#
141 0.0 11.8 17.8#



#11
Tert butyl alcohol
Concen: 47.572 ug/l
RT: 5.12 min Scan# 528
Delta R.T. -0.04 min
Lab File: VW009131.D
Acq: 12 Mar 2019 18:33

Tgt Ion: 59 Resp: 10207
Ion Ratio Lower Upper
59 100
57 1.6 8.6 12.8#





#16

Acetone

Concen: 58.984 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

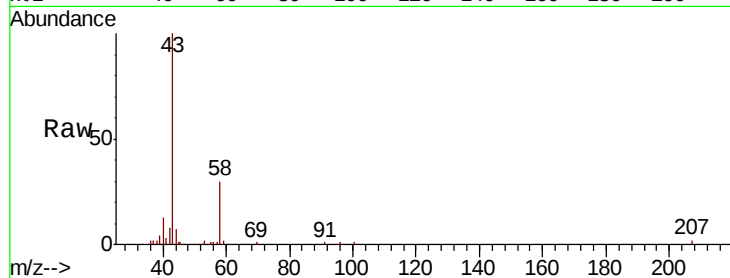
OK-01-030819RE

Tgt Ion: 43 Resp: 37268

Ion Ratio Lower Upper

43 100

58 30.2 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

15000

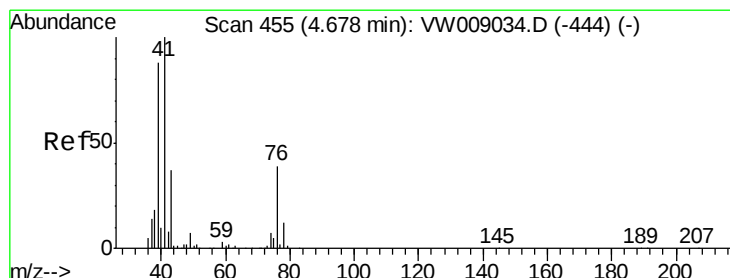
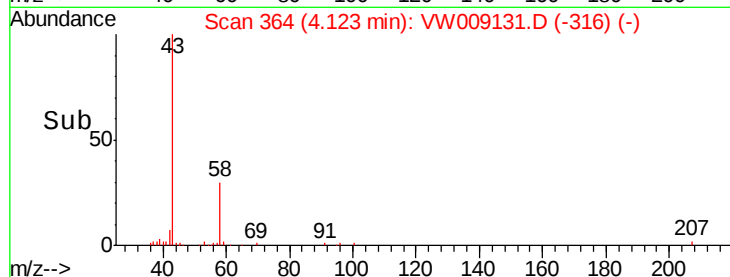
10000

5000

0

4.00 4.10 4.20

Time-->



#18

Methyl Acetate

Concen: 3.058 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW009131.D

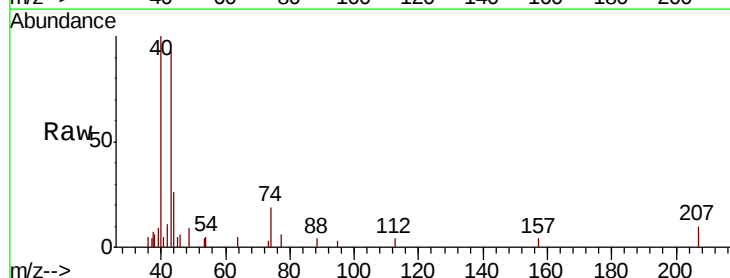
Acq: 12 Mar 2019 18:33

Tgt Ion: 43 Resp: 4443

Ion Ratio Lower Upper

43 100

74 13.6 17.6 26.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

1500

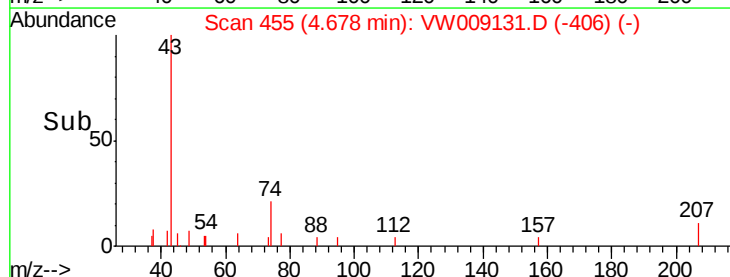
1000

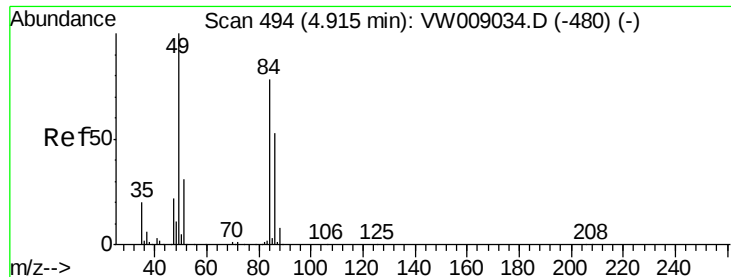
500

0

4.60 4.65 4.70 4.75 4.80

Time-->





#20

Methylene Chloride

Concen: 5.645 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

OK-01-030819RE

Tgt Ion: 84 Resp: 31085

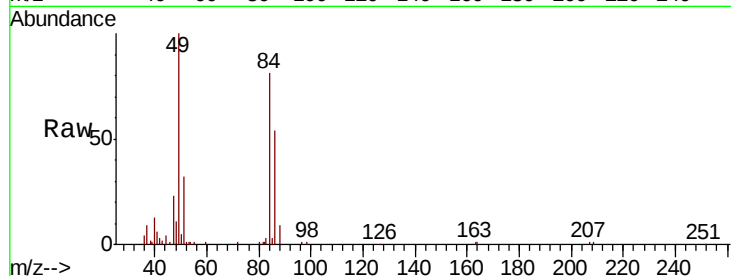
Ion Ratio Lower Upper

84 100

49 123.3 102.4 153.6

51 39.0 31.6 47.4

86 66.4 54.5 81.7



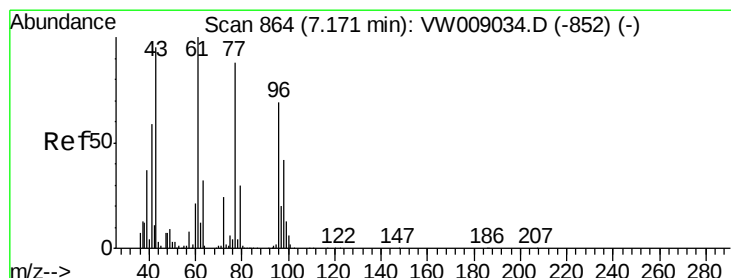
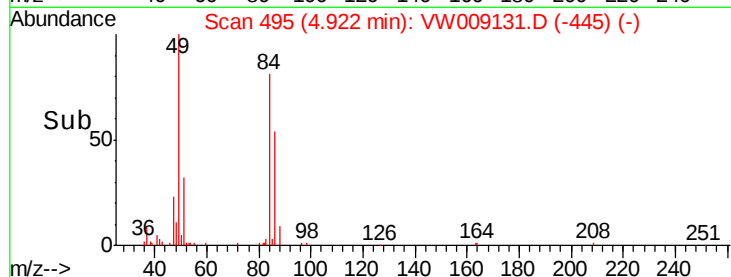
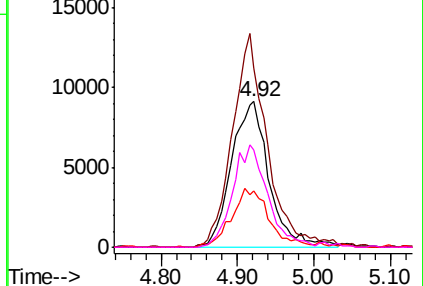
Abundance

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: 6.876 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.04 min

Lab File: VW009131.D

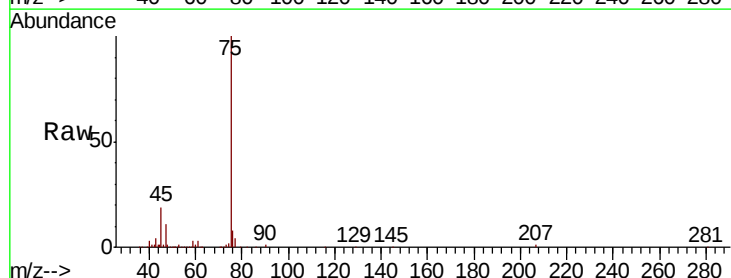
Acq: 12 Mar 2019 18:33

Tgt Ion: 43 Resp: 6004

Ion Ratio Lower Upper

43 100

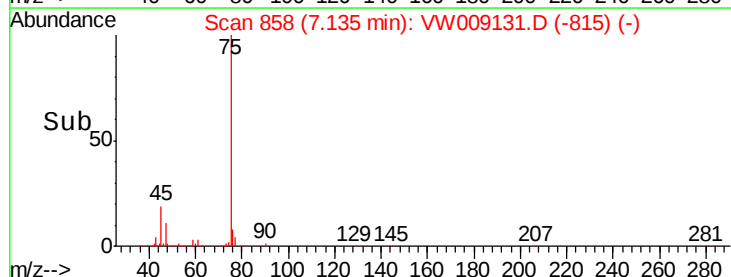
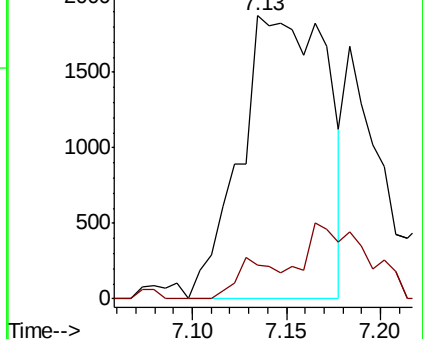
72 12.1 20.0 30.0#

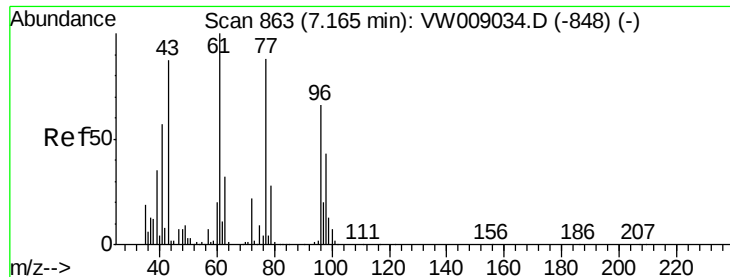


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 1.427 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

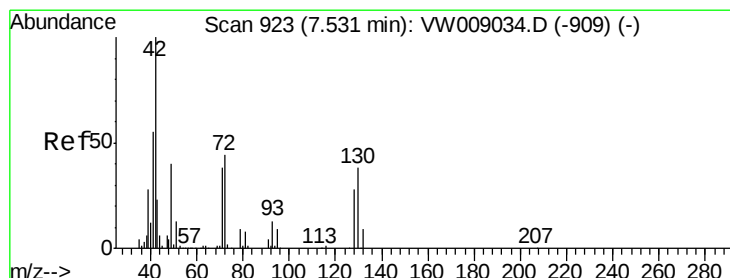
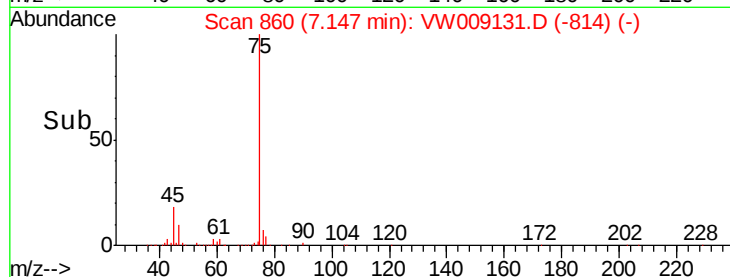
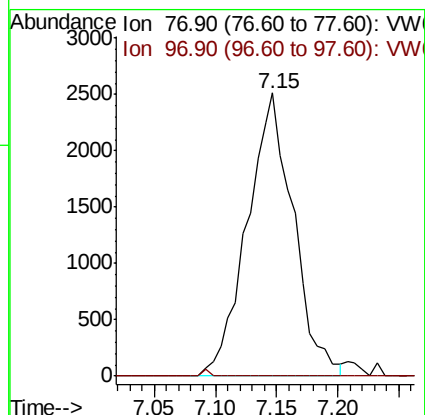
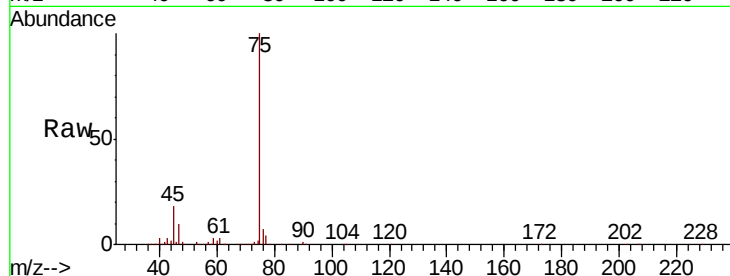
OK-01-030819RE

Tgt Ion: 77 Resp: 6595

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#



#29

Tetrahydrofuran

Concen: 3.362 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

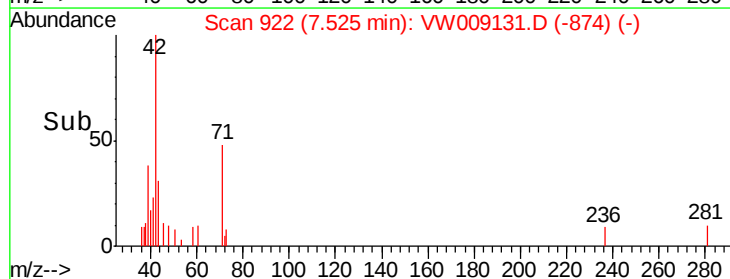
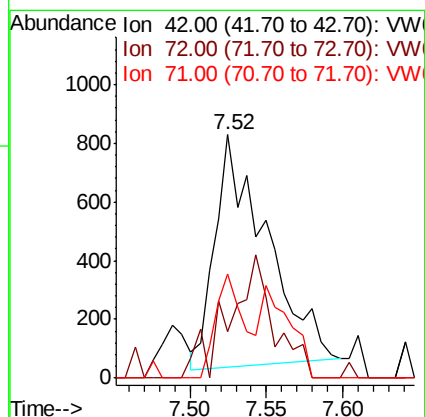
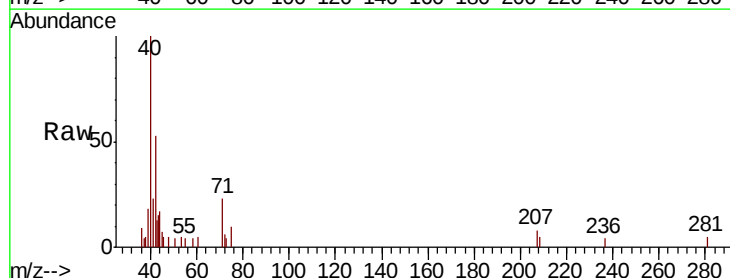
Tgt Ion: 42 Resp: 1850

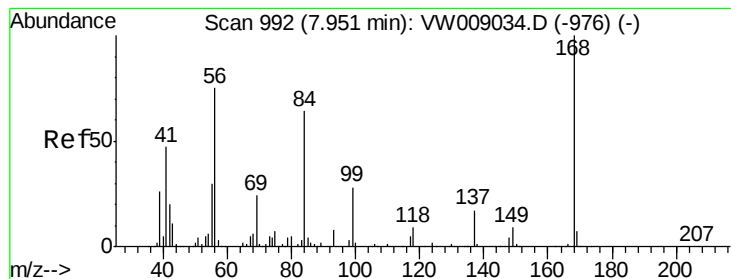
Ion Ratio Lower Upper

42 100

72 0.0 32.2 48.4#

71 25.3 30.7 46.1#





#31

Cyclohexane

Concen: 1.430 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

OK-01-030819RE

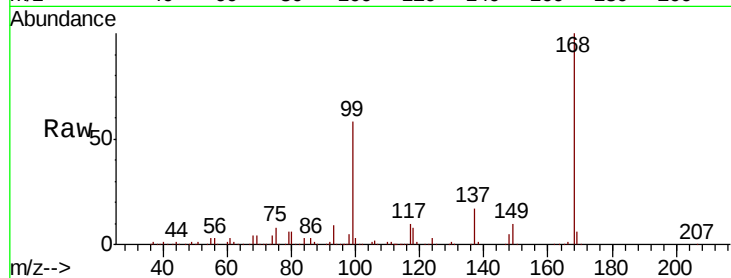
Tgt Ion: 56 Resp: 7465

Ion Ratio Lower Upper

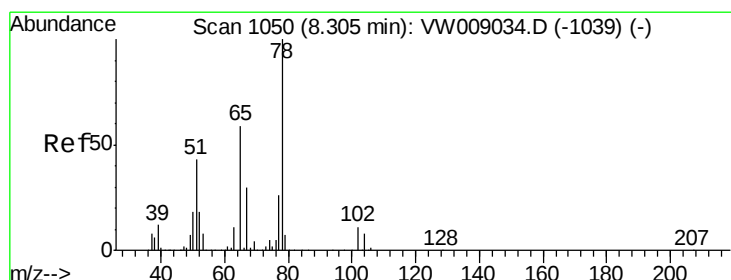
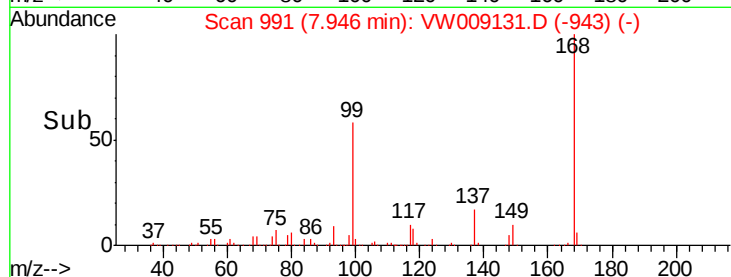
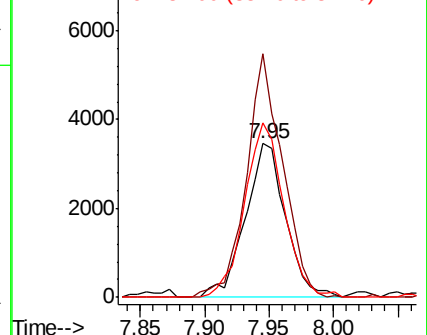
56 100

69 158.7 25.5 38.3#

84 114.0 68.6 103.0#



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: 60.828 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009131.D

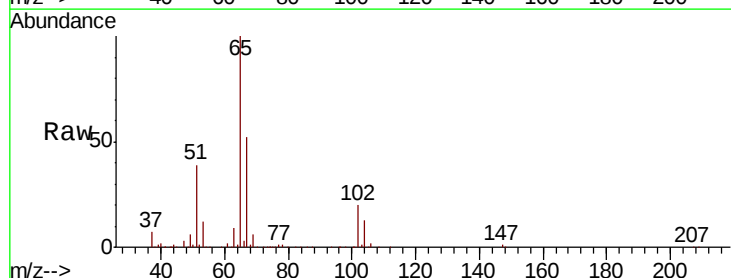
Acq: 12 Mar 2019 18:33

Tgt Ion: 65 Resp: 170314

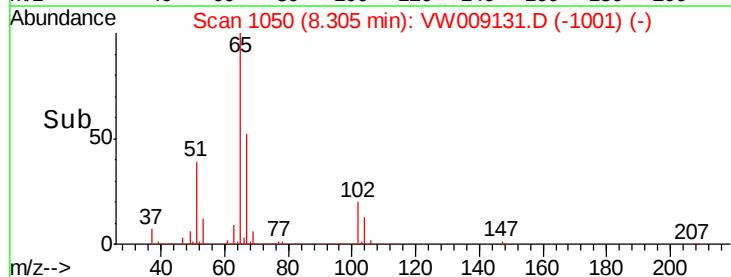
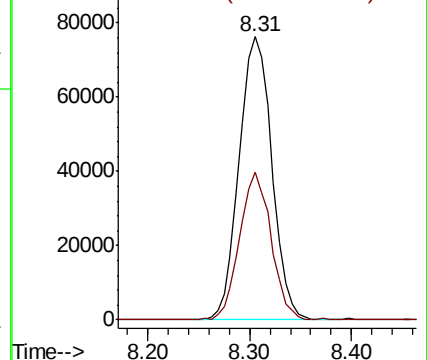
Ion Ratio Lower Upper

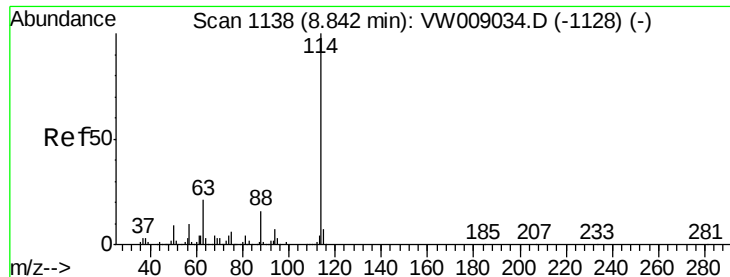
65 100

67 50.0 0.0 103.0



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

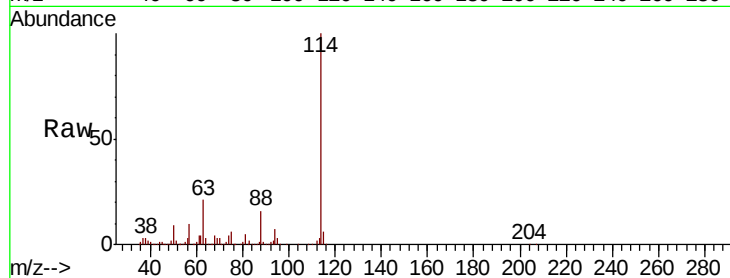




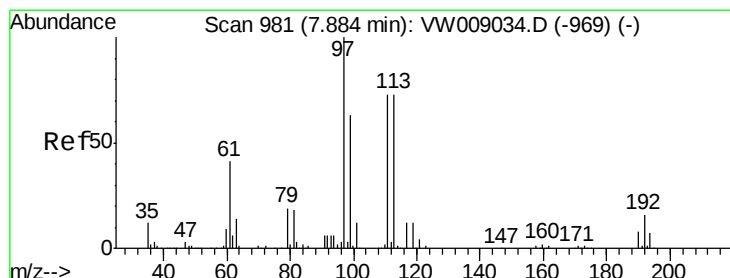
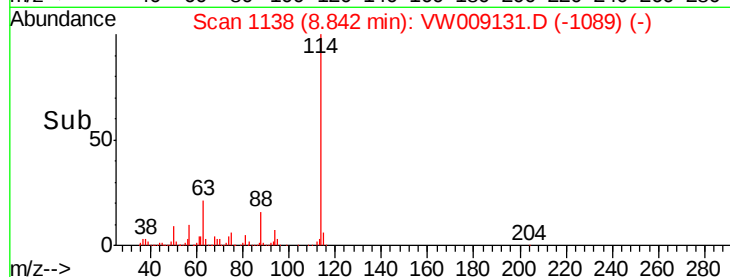
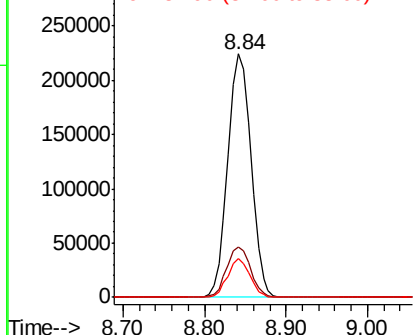
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VW009131.D
Acq: 12 Mar 2019 18:33

Instrument :
MSVOA_W
ClientSampleId :
OK-01-030819RE

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	41.2
88	15.8	0.0	31.2

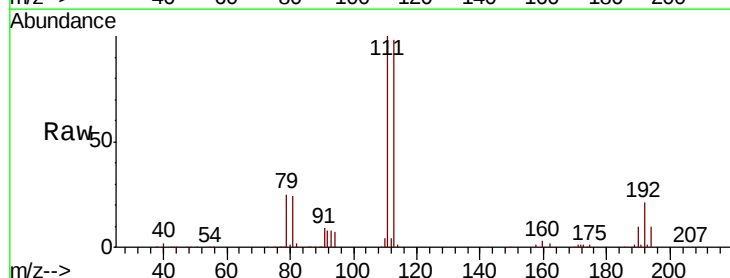


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

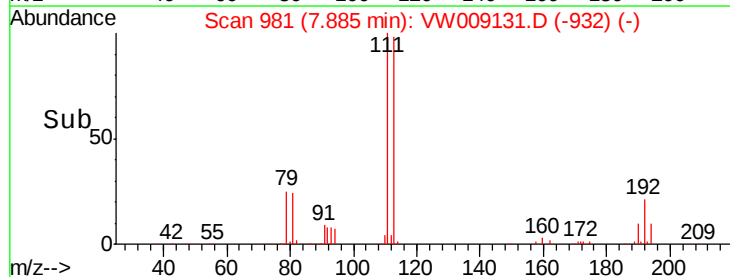
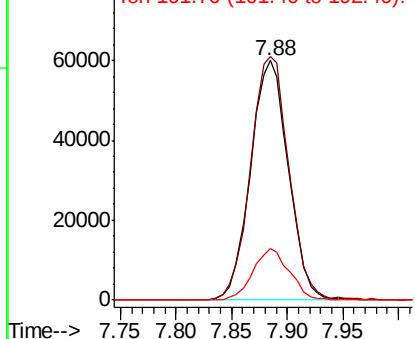


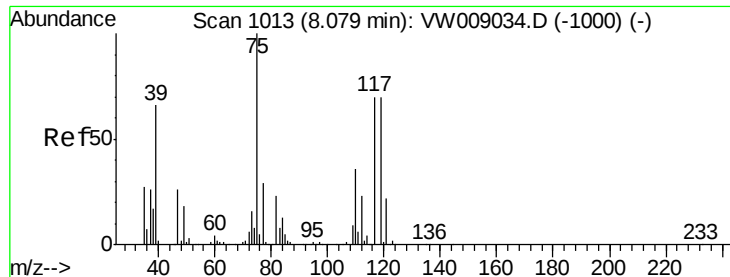
#35
Dibromofluoromethane
Concen: 53.209 ug/l
RT: 7.88 min Scan# 981
Delta R.T. 0.00 min
Lab File: VW009131.D
Acq: 12 Mar 2019 18:33

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.0	121.4
192	20.8	17.1	25.7



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

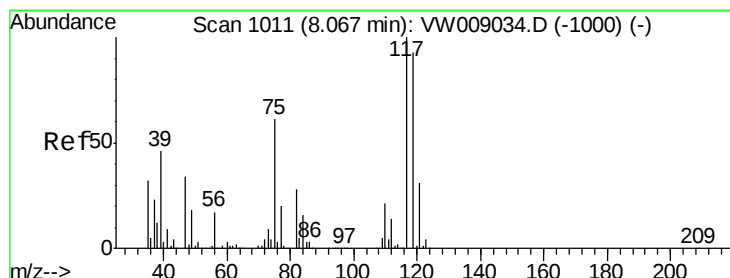
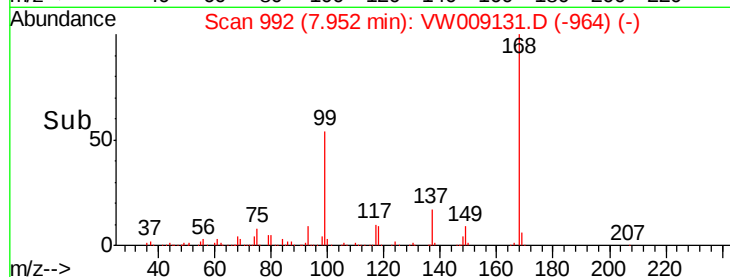
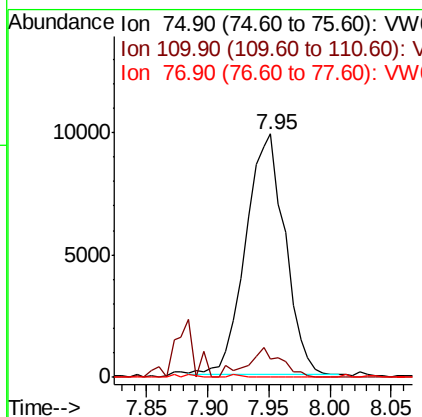
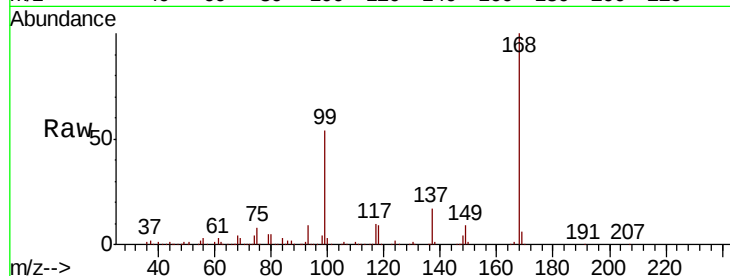




#36
 1,1-Dichloropropene
 Concen: 4.717 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW009131.D
 Acq: 12 Mar 2019 18:33

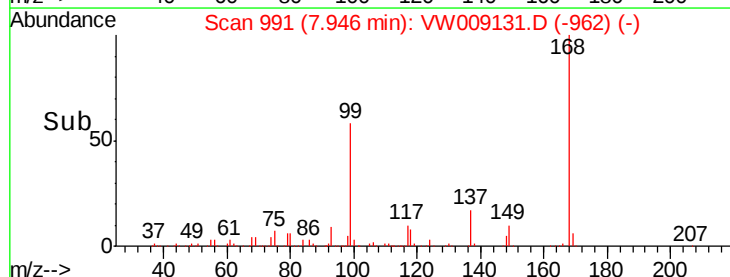
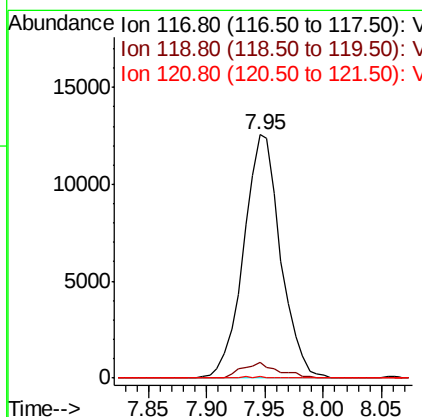
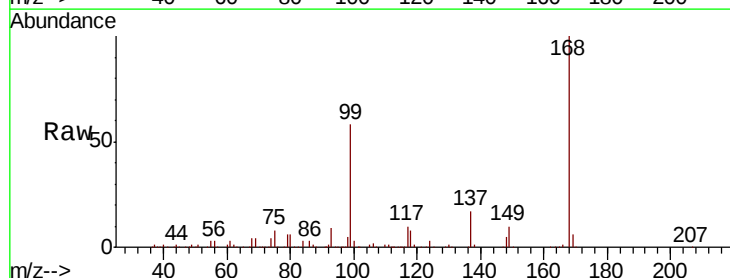
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-01-030819RE

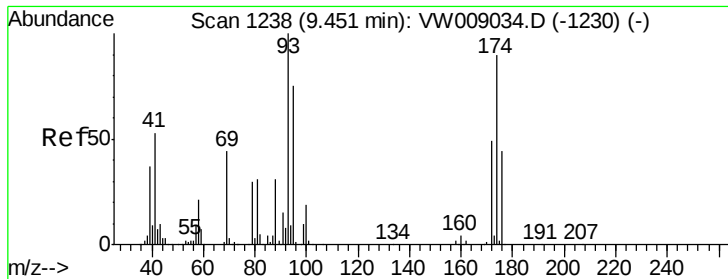
Tgt Ion: 75 Resp: 21819
 Ion Ratio Lower Upper
 75 100
 110 10.8 17.6 52.9#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.785 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW009131.D
 Acq: 12 Mar 2019 18:33

Tgt Ion: 117 Resp: 27637
 Ion Ratio Lower Upper
 117 100
 119 6.2 74.6 112.0#
 121 0.7 24.7 37.1#





#49

1,4-Dioxane

Concen: 2.315 ug/l

RT: 9.31 min Scan# 1214

Delta R.T. -0.15 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

OK-01-030819RE

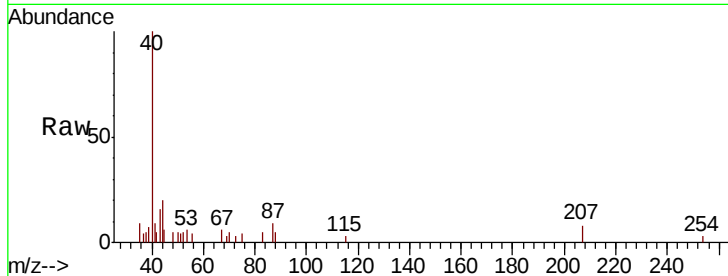
Tgt Ion: 88 Resp: 56

Ion Ratio Lower Upper

88 100

43 889.3 29.0 43.4#

58 123.2 59.2 88.8#

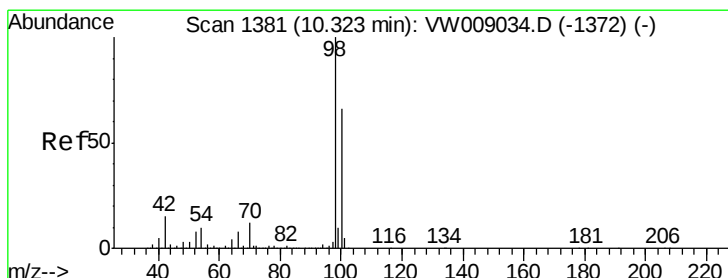
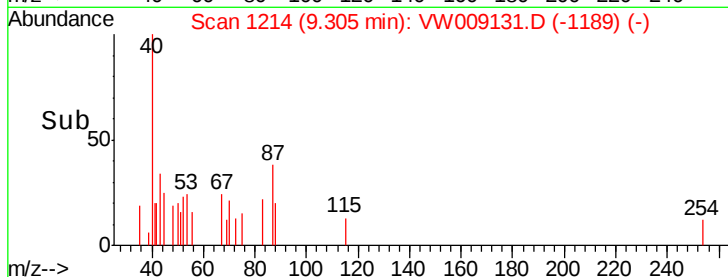
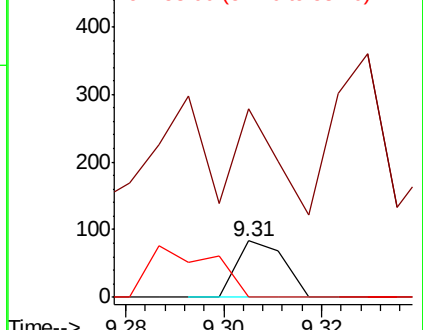


Abundance

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: 47.918 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009131.D

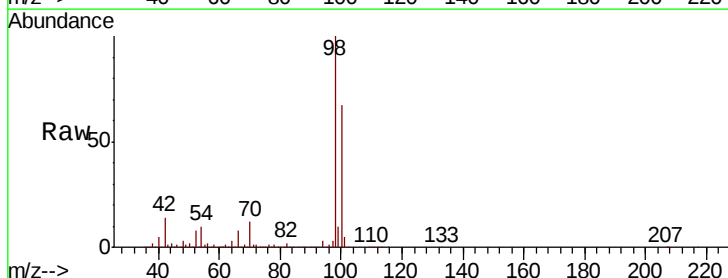
Acq: 12 Mar 2019 18:33

Tgt Ion: 98 Resp: 524204

Ion Ratio Lower Upper

98 100

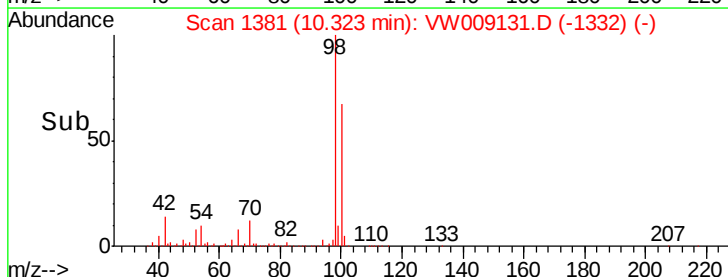
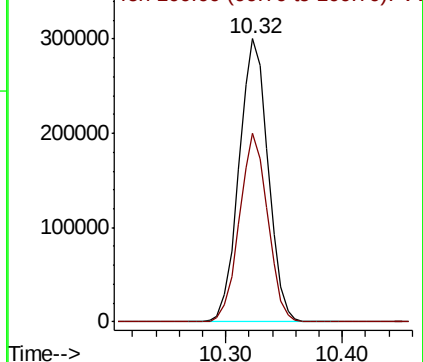
100 64.9 51.9 77.9

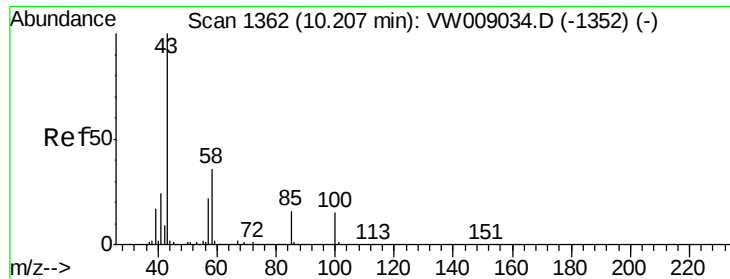


Abundance

Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.133 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

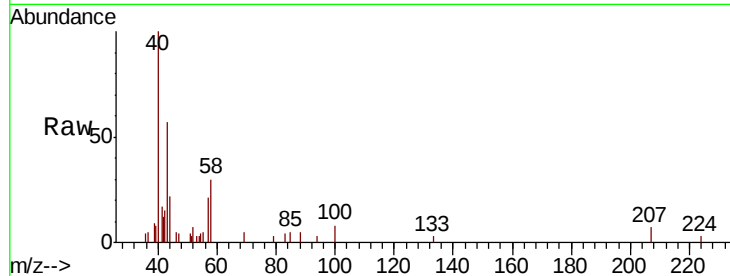
OK-01-030819RE

Tgt Ion: 43 Resp: 2327

Ion Ratio Lower Upper

43 100

58 17.8 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

3000

2500

2000

1500

1000

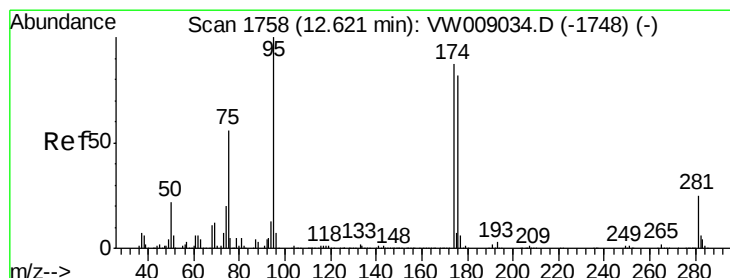
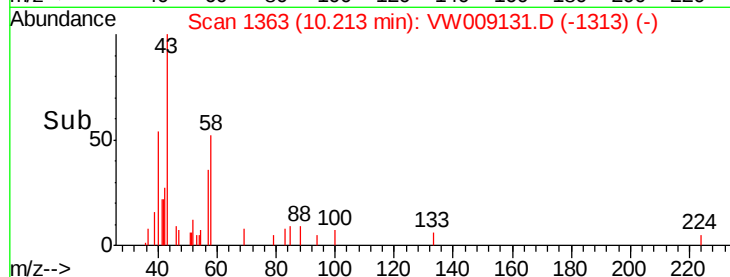
500

0

10.20

10.30

Time-->



#62

4-Bromofluorobenzene

Concen: 36.971 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

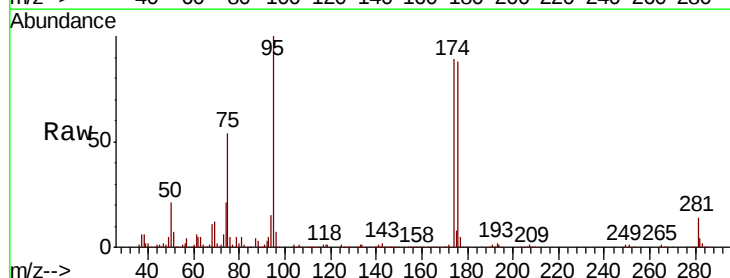
Tgt Ion: 95 Resp: 159216

Ion Ratio Lower Upper

95 100

174 86.4 0.0 167.0

176 83.8 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

60000

40000

20000

0

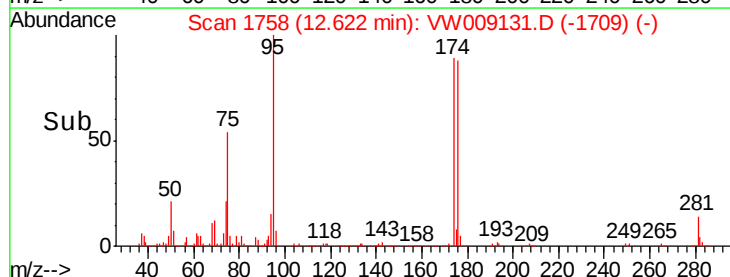
12.55

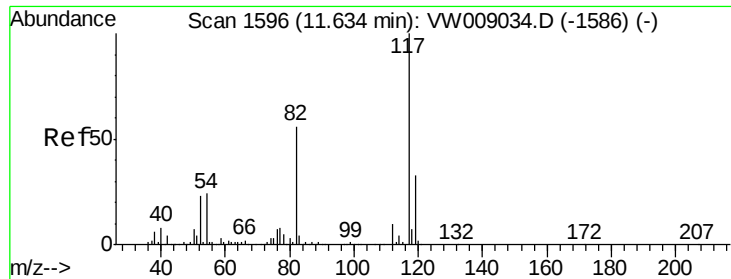
12.60

12.65

12.70

Time-->

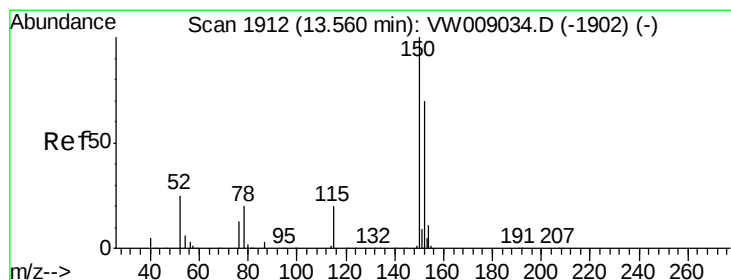
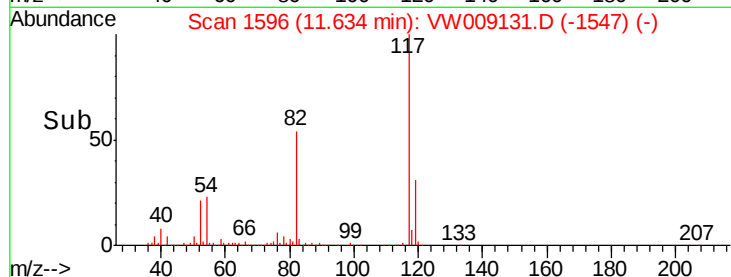
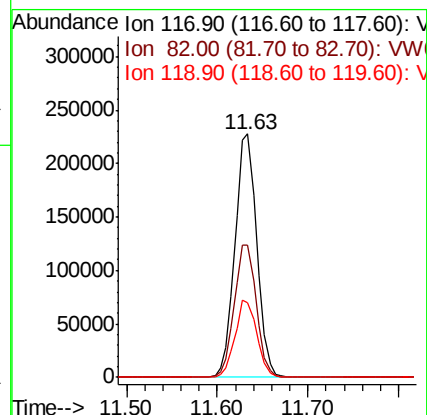
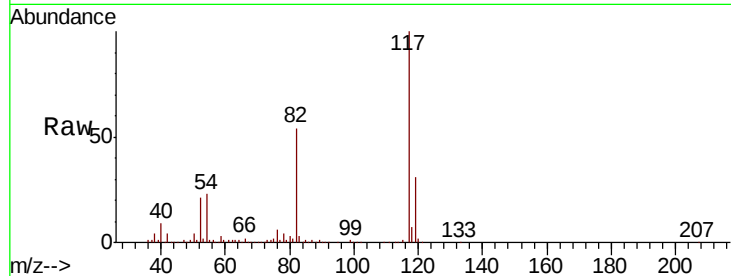




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009131.D
Acq: 12 Mar 2019 18:33

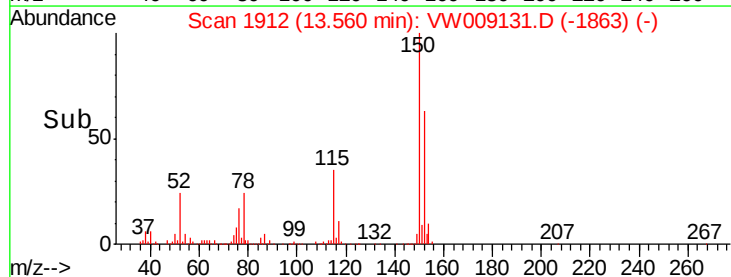
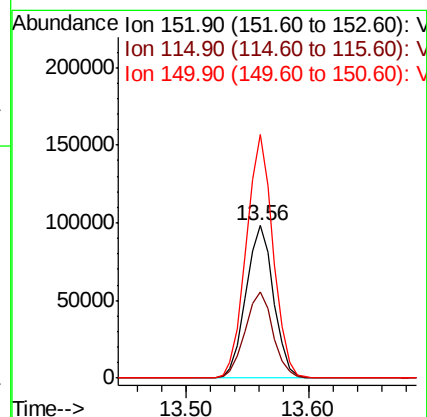
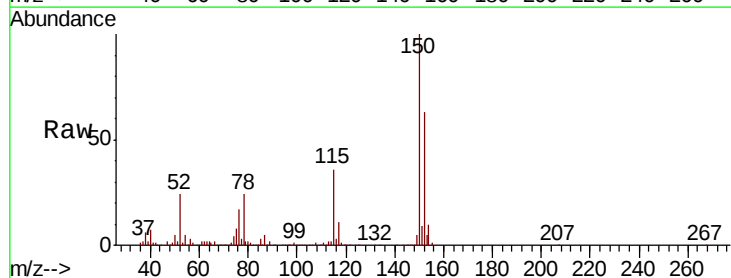
Instrument :
MSVOA_W
ClientSampleId :
OK-01-030819RE

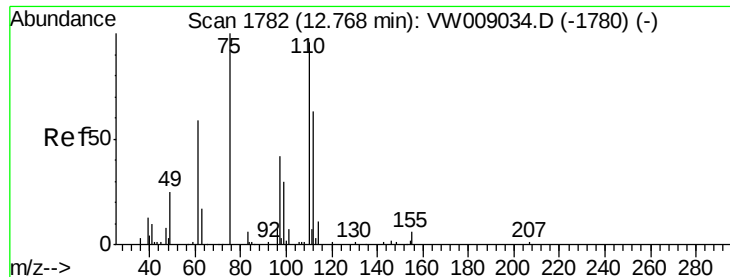
Tgt Ion:117 Resp: 380635
Ion Ratio Lower Upper
117 100
82 54.2 45.0 67.6
119 30.8 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009131.D
Acq: 12 Mar 2019 18:33

Tgt Ion:152 Resp: 153605
Ion Ratio Lower Upper
152 100
115 57.4 28.9 86.7
150 155.2 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 73.455 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

Instrument :

MSVOA_W

ClientSampleId :

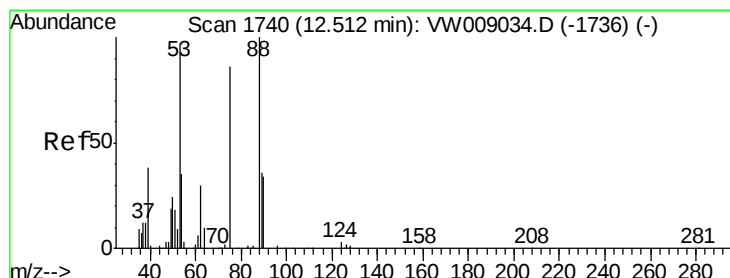
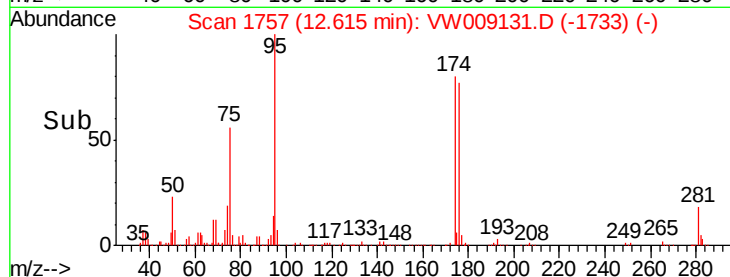
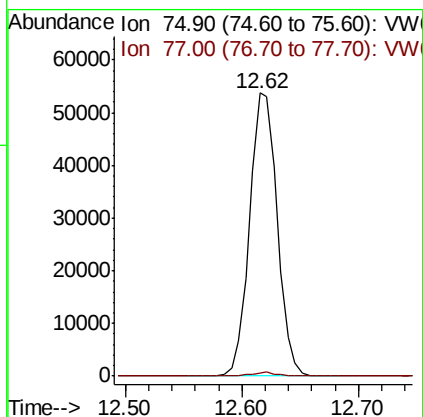
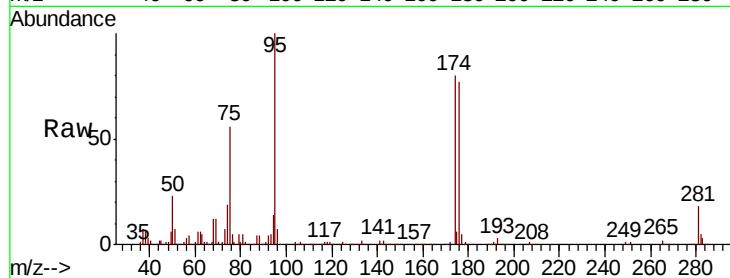
OK-01-030819RE

Tgt Ion: 75 Resp: 89146

Ion Ratio Lower Upper

75 100

77 1.3 186.7 560.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 164.300 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009131.D

Acq: 12 Mar 2019 18:33

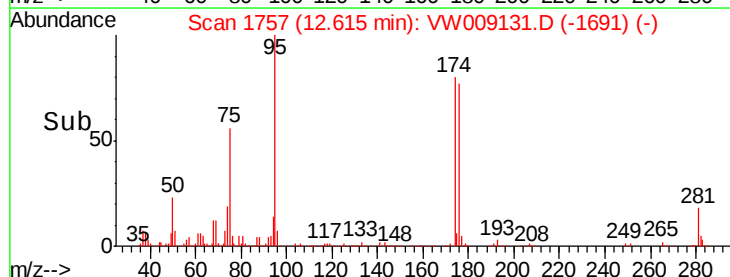
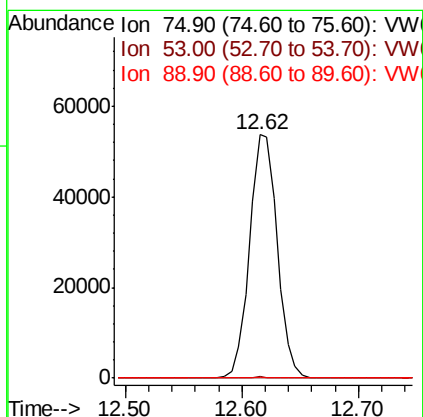
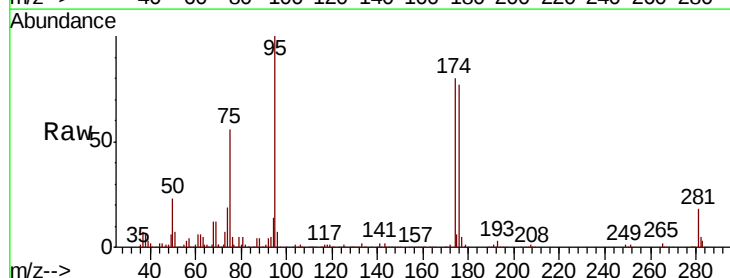
Tgt Ion: 75 Resp: 89146

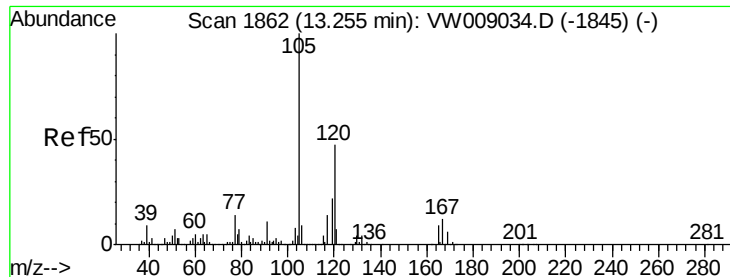
Ion Ratio Lower Upper

75 100

53 0.3 90.5 135.7#

89 0.1 37.5 56.3#

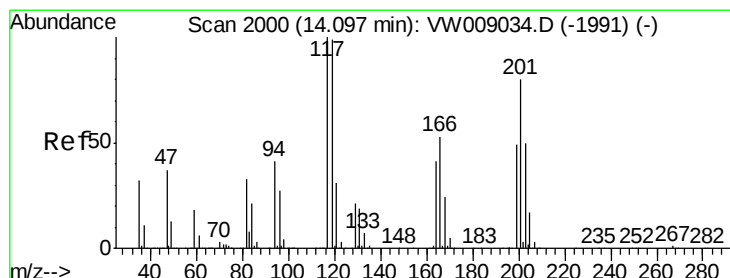
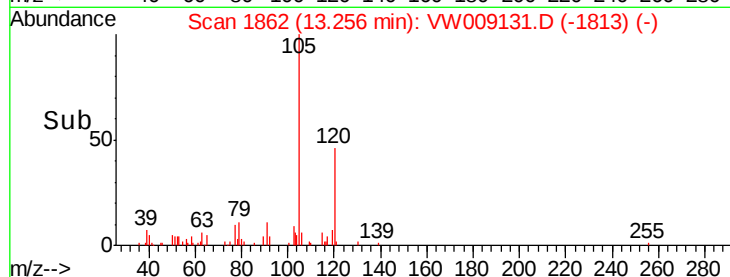
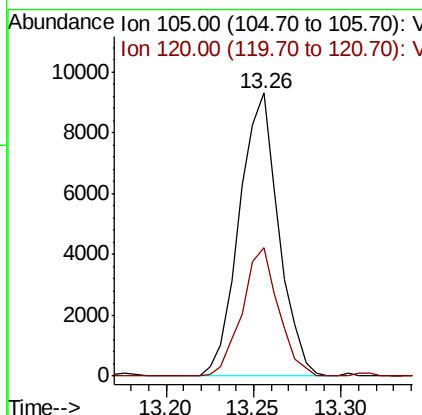
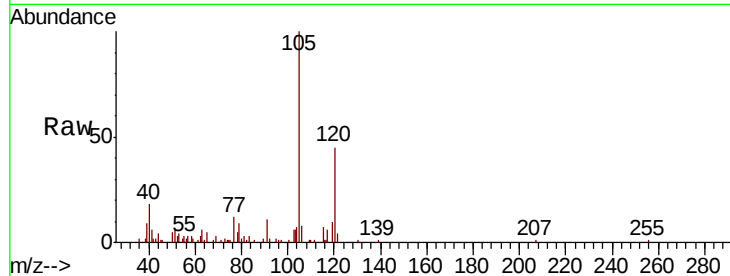




#84
 1,2,4-Trimethylbenzene
 Concen: 1.521 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW009131.D
 Acq: 12 Mar 2019 18:33

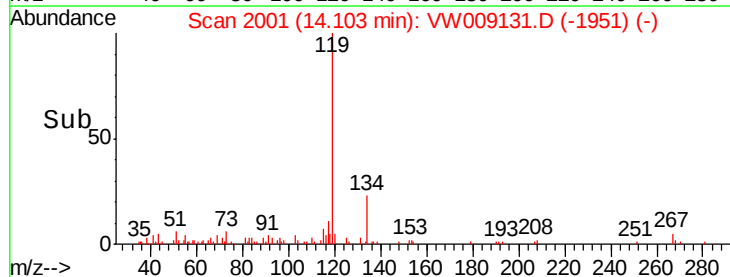
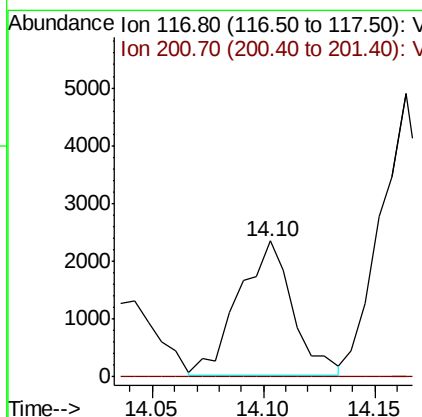
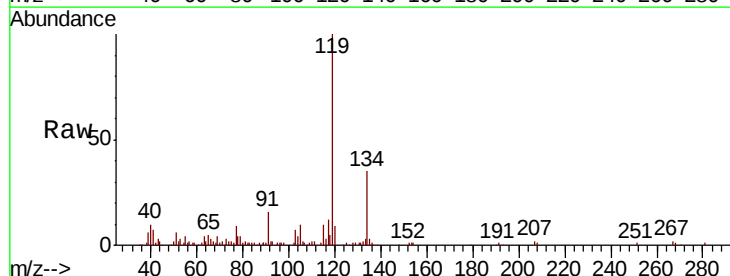
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-01-030819RE

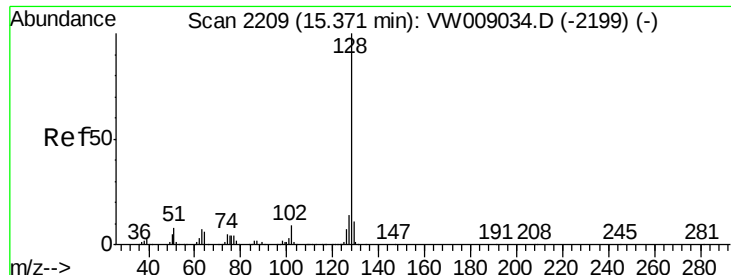
Tgt Ion:105 Resp: 14590
 Ion Ratio Lower Upper
 105 100
 120 41.9 22.8 68.4



#90
 Hexachloroethane
 Concen: 2.164 ug/l
 RT: 14.10 min Scan# 2001
 Delta R.T. 0.01 min
 Lab File: VW009131.D
 Acq: 12 Mar 2019 18:33

Tgt Ion:117 Resp: 3956
 Ion Ratio Lower Upper
 117 100
 201 0.0 39.1 117.5#

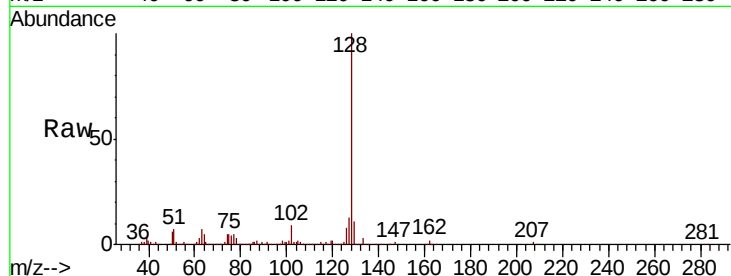




#95
Naphthalene
Concen: 32.281 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW009131.D
Acq: 12 Mar 2019 18:33

Instrument :
MSVOA_W
ClientSampleId :
OK-01-030819RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.9	11.0	16.6
129	11.1	8.8	13.2



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

