

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
 Data File : VW005464.D
 Acq On : 18 Sep 2018 06:43
 Operator : SY/AP
 Sample : J4948-01RE
 Misc : 5.69G/5ML/MSVOA_W/SOIL
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RB44766RTRE

Quant Time: Sep 18 07:12:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 15 02:32:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	185887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	324007	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	200474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	48430	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	114941	59.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.14%	
35) Dibromofluoromethane	7.89	113	89424	49.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.44%	
50) Toluene-d8	10.33	98	243245	29.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	58.48%	
62) 4-Bromofluorobenzene	12.62	95	57008	18.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.38%	

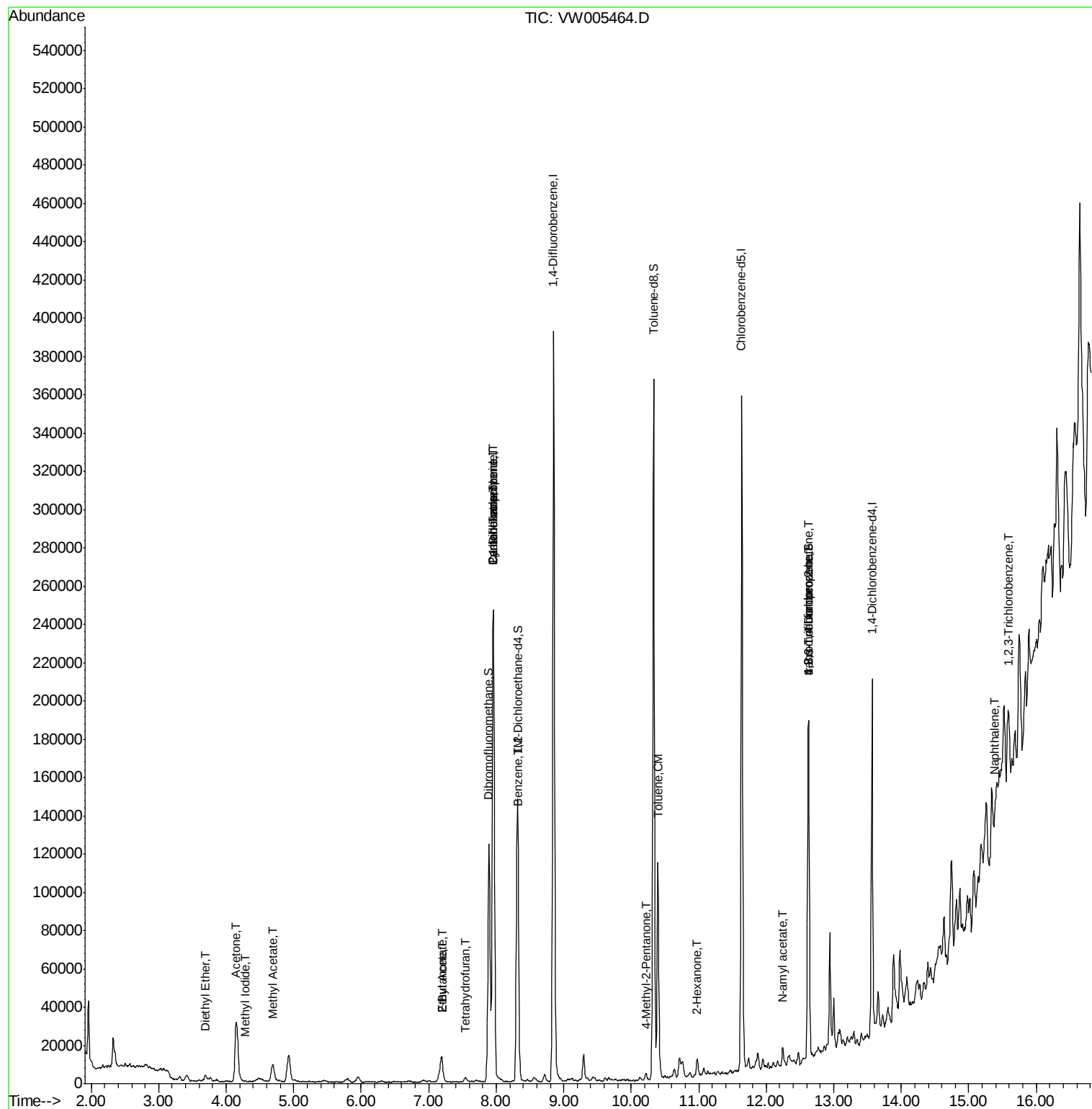
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	317	Below Cal		83
5) Bromomethane	2.79	94	499	Below Cal	#	29
8) Diethyl Ether	3.70	74	1209	1.494	ug/l #	5
10) Methyl Iodide	4.28	142	90	4.092	ug/l #	38
11) Tert butyl alcohol	5.20	59	170	Below Cal	#	71
13) Acrolein	3.94	56	22	Below Cal	#	12
16) Acetone	4.15	43	64295	230.295	ug/l	100
18) Methyl Acetate	4.69	43	20296	21.890	ug/l	96
20) Methylene Chloride	4.93	84	10634	Below Cal		96
25) 2-Butanone	7.20	43	22122	47.661	ug/l	93
29) Tetrahydrofuran	7.55	42	946	3.199	ug/l #	65
31) Cyclohexane	7.96	56	4511	1.465	ug/l #	12
36) 1,1-Dichloropropene	7.96	75	15123	4.932	ug/l #	50
37) Ethyl Acetate	7.20	43	22122	17.740	ug/l #	68
38) Carbon Tetrachloride	7.96	117	18238	5.708	ug/l #	16
40) Benzene	8.33	78	9828	1.106	ug/l #	87
51) 4-Methyl-2-Pentanone	10.21	43	2717	2.169	ug/l #	87
52) Toluene	10.40	92	45818	7.617	ug/l	98
59) 2-Hexanone	10.98	43	5634	6.602	ug/l	95
74) N-amyl acetate	12.24	43	7325	10.231	ug/l #	48
76) 1,2,3-Trichloropropane	12.63	75	28962	72.709	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	28962	188.613	ug/l #	9
95) Naphthalene	15.38	128	10477	6.619	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.58	180	2310	2.786	ug/l #	14

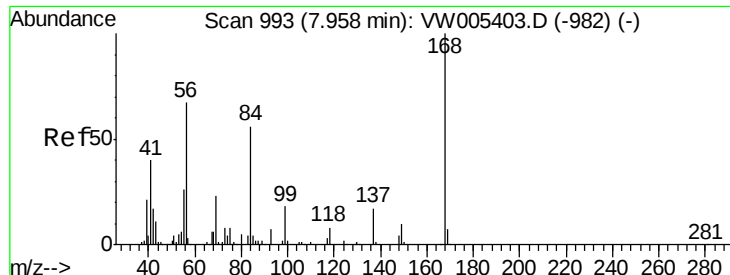
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Sep 15 02:32:34 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

Instrument :

MSVOA_W

ClientSampleId :

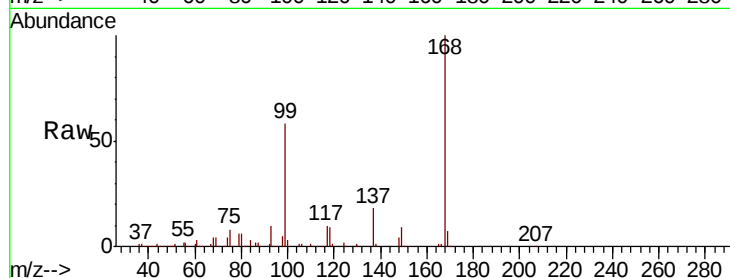
RB44766RTRE

Tgt Ion:168 Resp: 185887

Ion Ratio Lower Upper

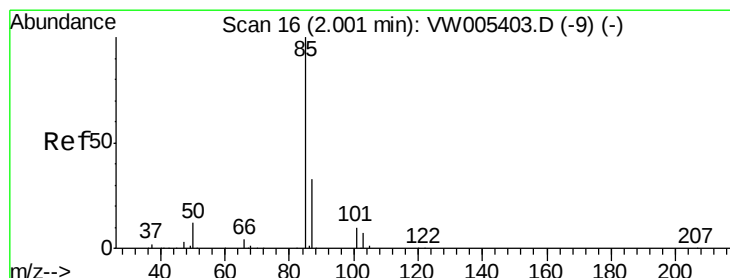
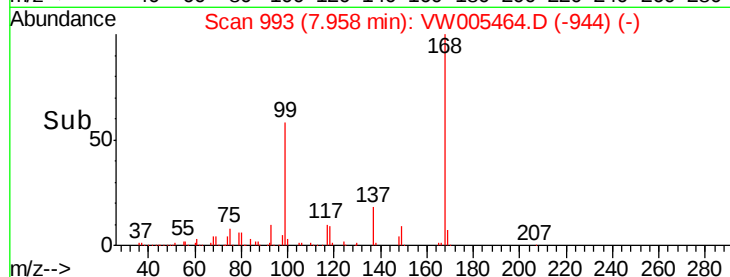
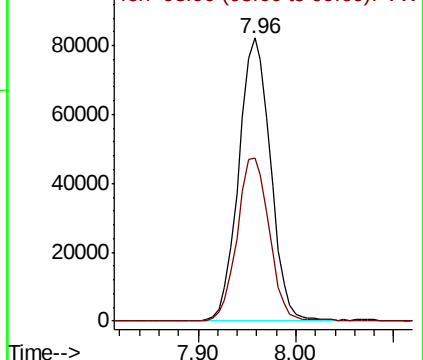
168 100

99 57.7 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005464.D

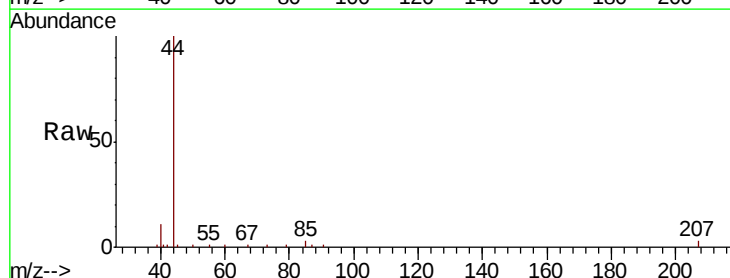
Acq: 18 Sep 2018 06:43

Tgt Ion: 85 Resp: 317

Ion Ratio Lower Upper

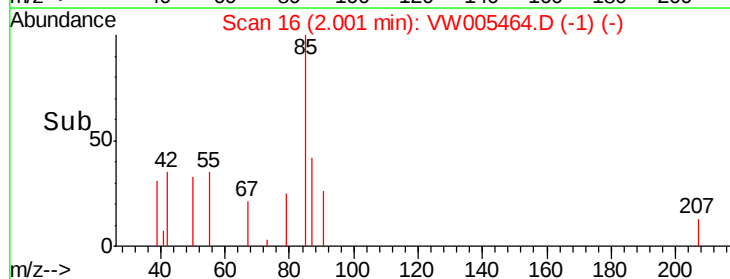
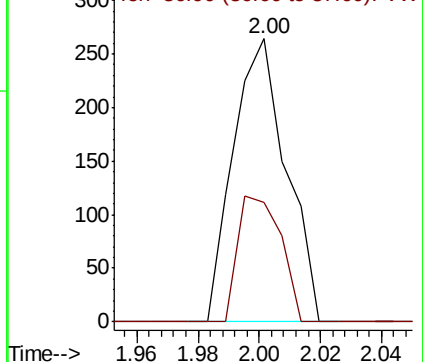
85 100

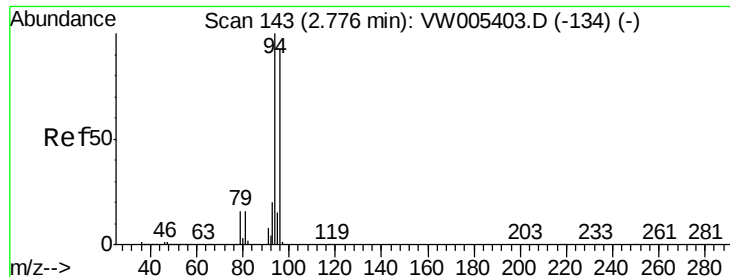
87 42.4 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 146

Delta R.T. 0.02 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

Instrument :

MSVOA_W

ClientSampled :

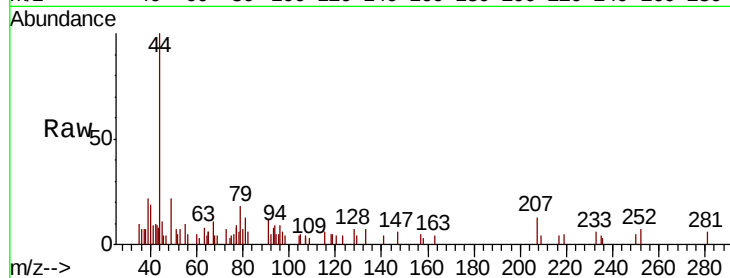
RB44766RTRE

Tgt Ion: 94 Resp: 499

Ion Ratio Lower Upper

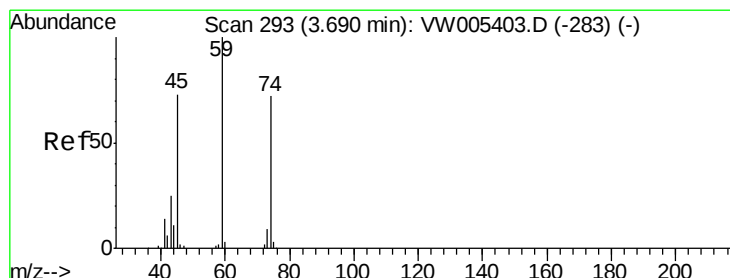
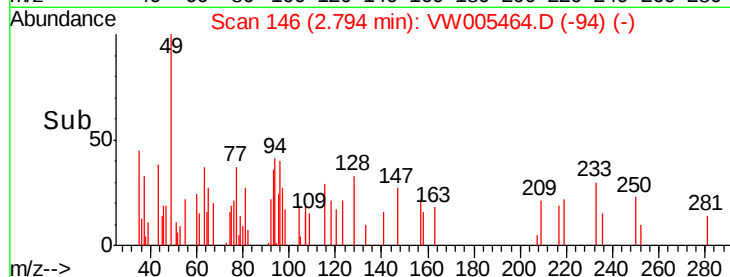
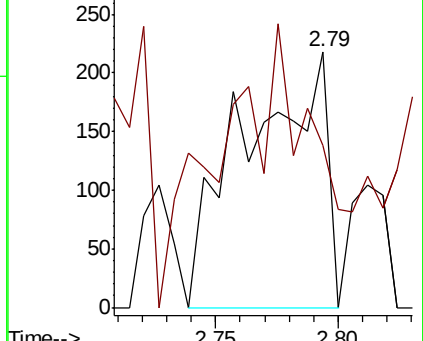
94 100

96 24.8 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#8

Diethyl Ether

Concen: 1.494 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.01 min

Lab File: VW005464.D

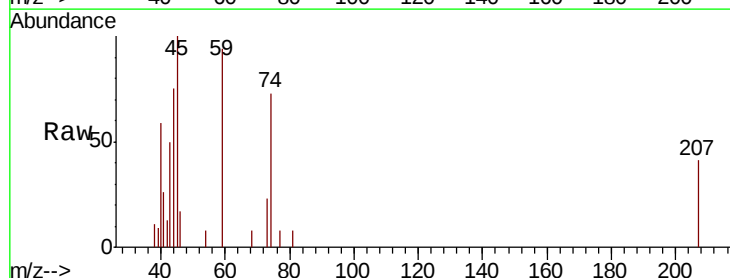
Acq: 18 Sep 2018 06:43

Tgt Ion: 74 Resp: 1209

Ion Ratio Lower Upper

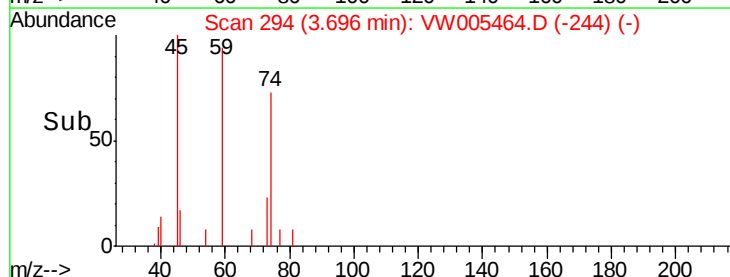
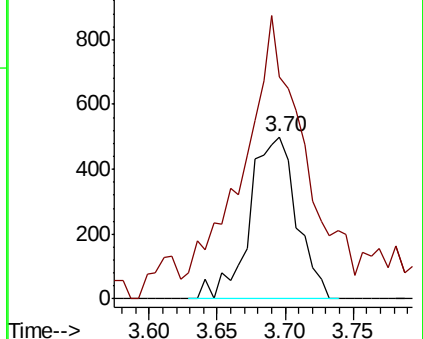
74 100

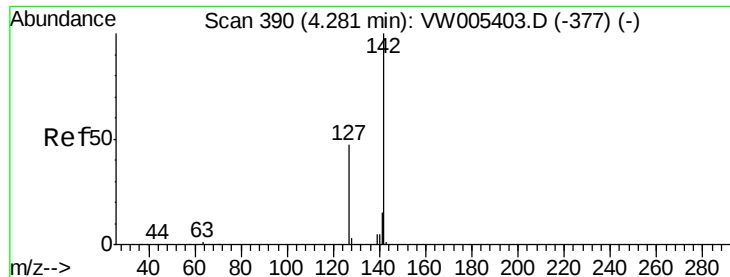
45 204.4 53.1 159.3#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

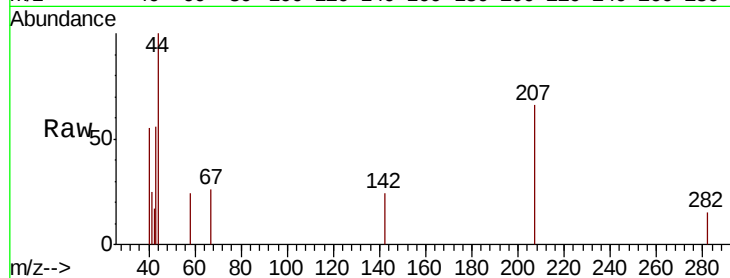




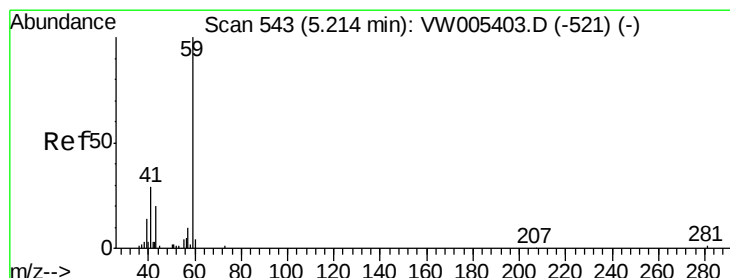
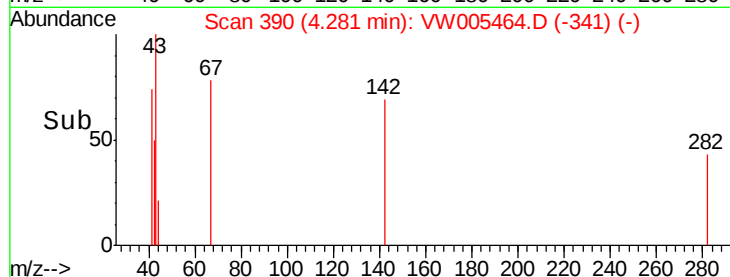
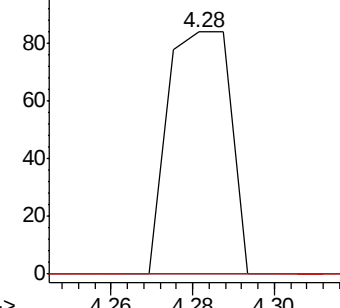
#10
Methyl Iodide
Concen: 4.092 ug/l
RT: 4.28 min Scan# 390
Delta R.T. 0.00 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

Instrument :
MSVOA_W
ClientSampleId :
RB44766RTRE

Tgt Ion: 142 Resp: 90
Ion Ratio Lower Upper
142 100
127 0.0 37.5 56.3#
141 0.0 12.4 18.6#

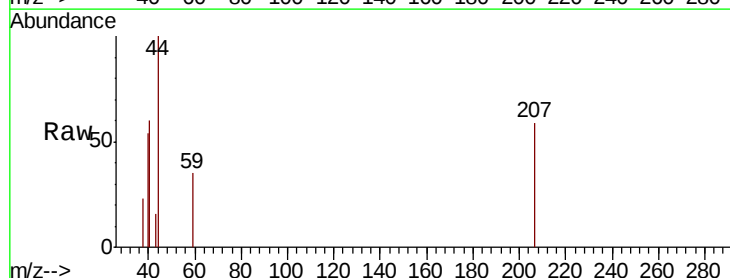


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

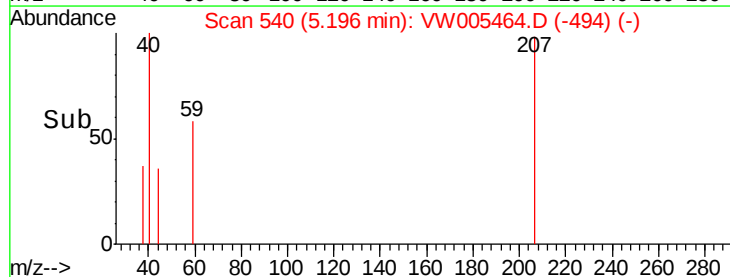
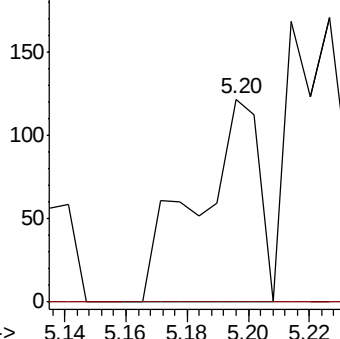


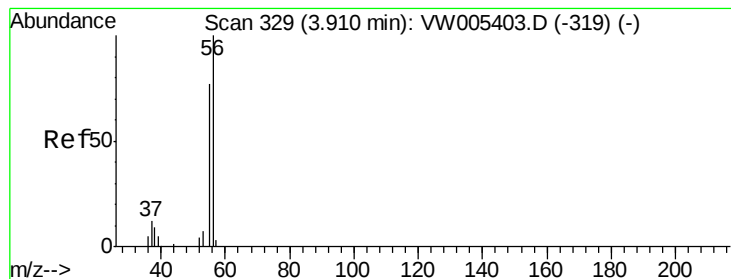
#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.20 min Scan# 540
Delta R.T. -0.02 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

Tgt Ion: 59 Resp: 170
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VW
Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.94 min Scan# 334

Delta R.T. 0.03 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

Instrument :

MSVOA_W

ClientSampleId :

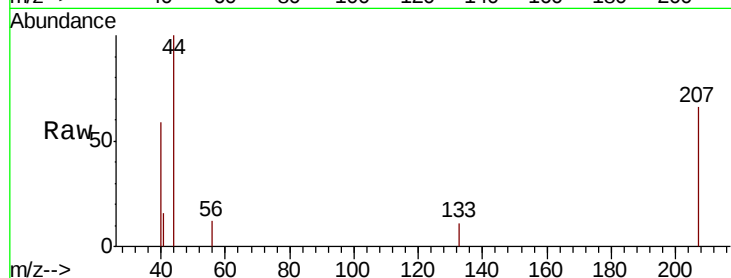
RB44766RTRE

Tgt Ion: 56 Resp: 22

Ion Ratio Lower Upper

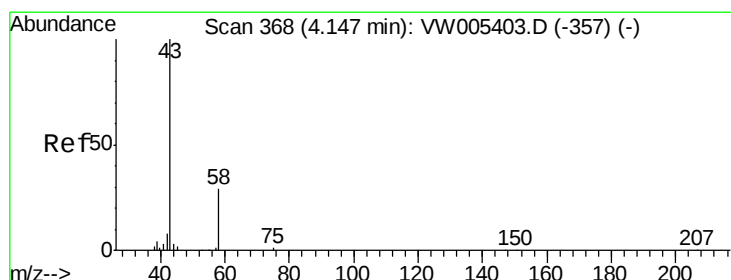
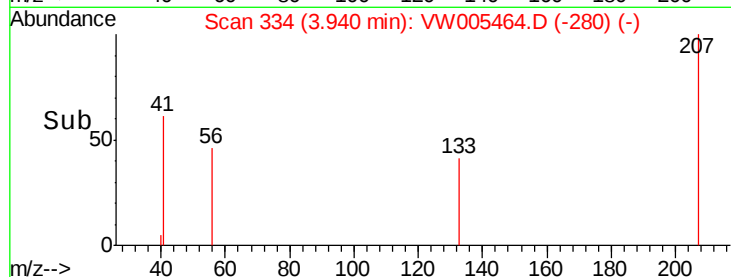
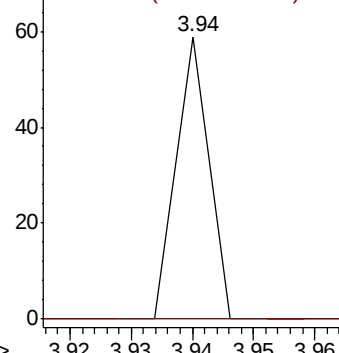
56 100

55 0.0 59.8 89.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 230.295 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW005464.D

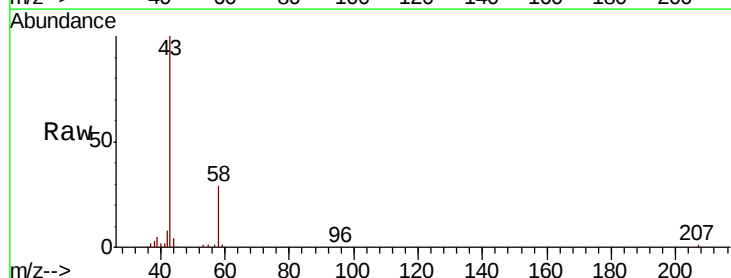
Acq: 18 Sep 2018 06:43

Tgt Ion: 43 Resp: 64295

Ion Ratio Lower Upper

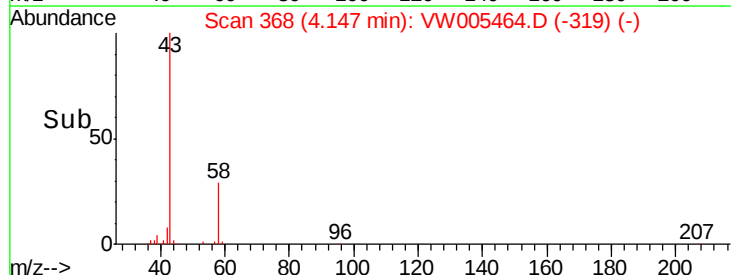
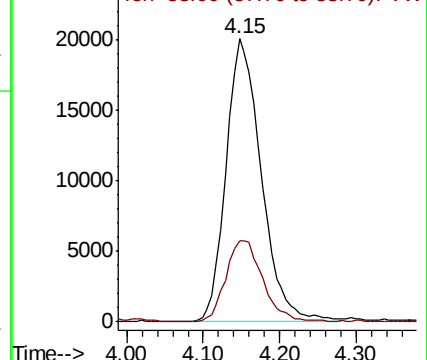
43 100

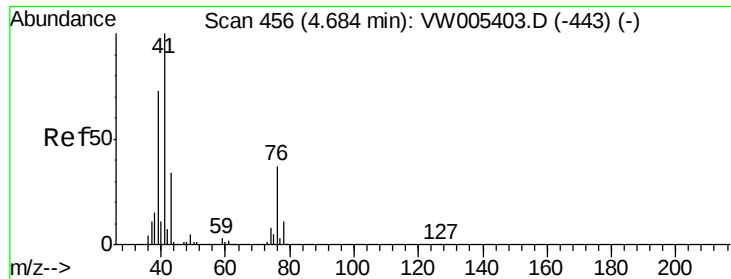
58 28.6 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

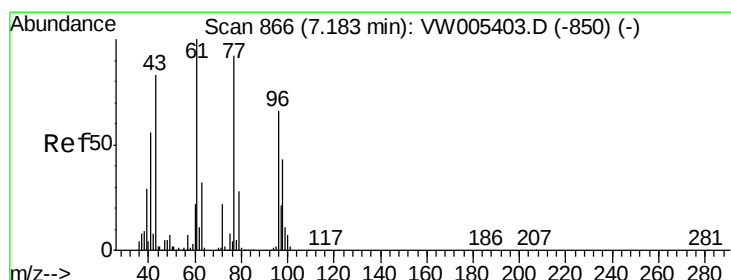
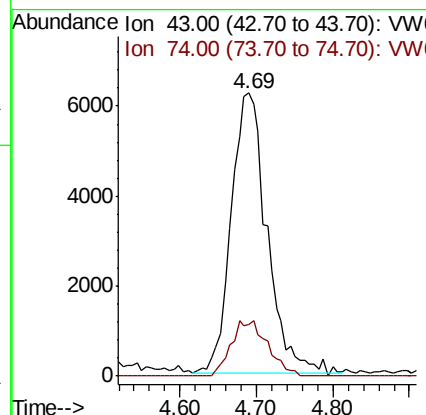
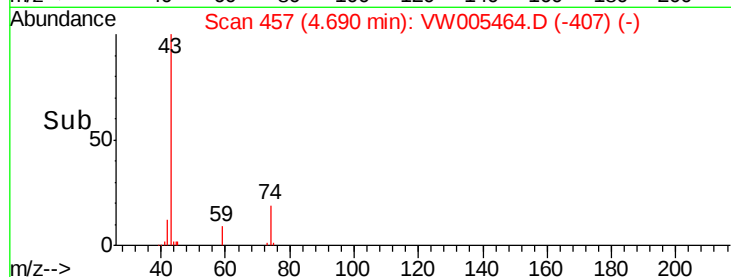
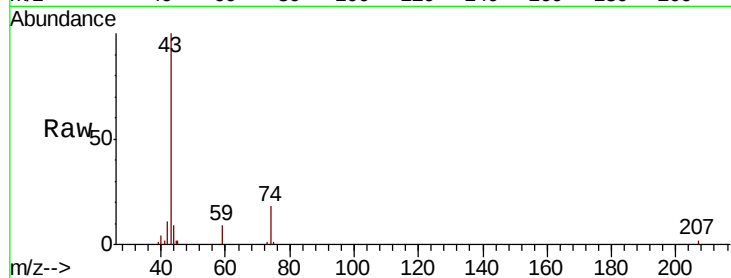




#18
Methyl Acetate
Concen: 21.890 ug/l
RT: 4.69 min Scan# 457
Delta R.T. 0.01 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

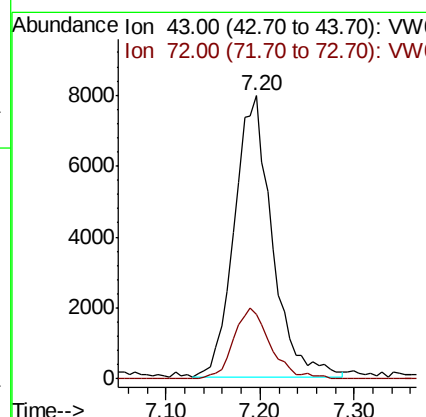
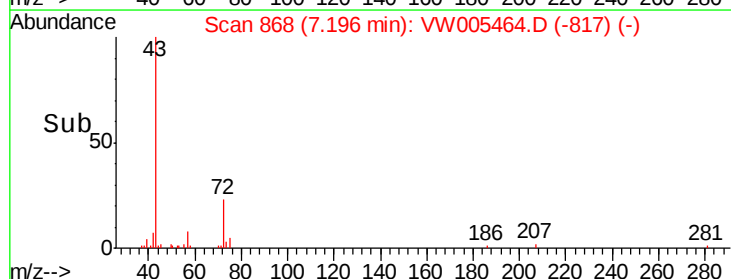
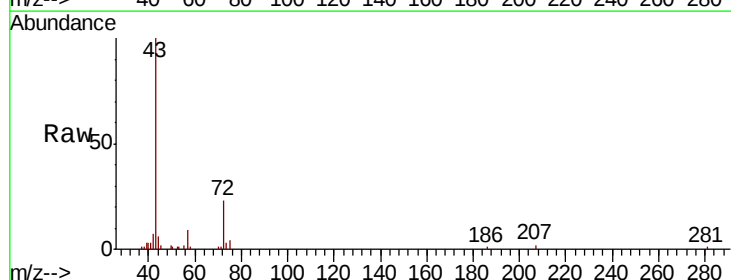
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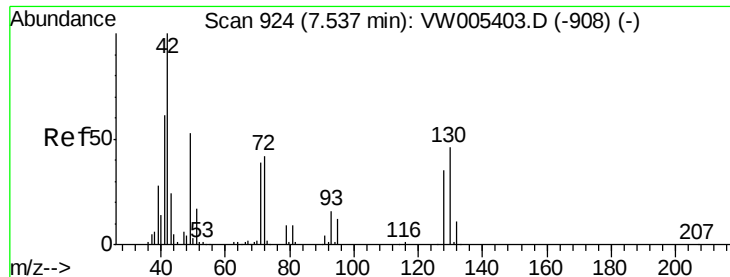
Tgt Ion: 43 Resp: 20296
Ion Ratio Lower Upper
43 100
74 20.1 17.7 26.5



#25
2-Butanone
Concen: 47.661 ug/l
RT: 7.20 min Scan# 868
Delta R.T. 0.01 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

Tgt Ion: 43 Resp: 22122
Ion Ratio Lower Upper
43 100
72 22.9 21.1 31.7

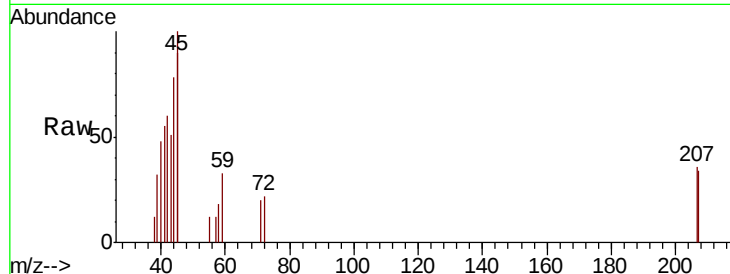




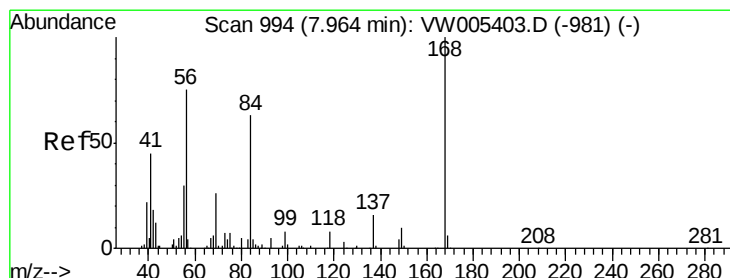
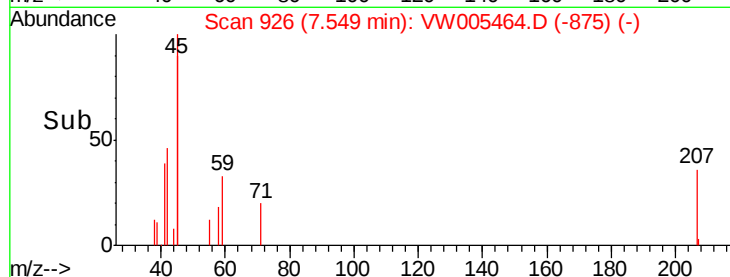
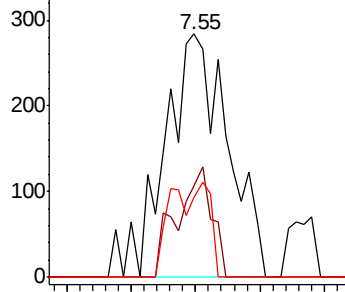
#29
Tetrahydrofuran
Concen: 3.199 ug/l
RT: 7.55 min Scan# 926
Delta R.T. 0.01 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

Instrument :
MSVOA_W
ClientSampleId :
RB44766RTRE

Tgt Ion: 42 Resp: 946
Ion Ratio Lower Upper
42 100
72 25.3 33.2 49.8#
71 11.6 31.0 46.6#

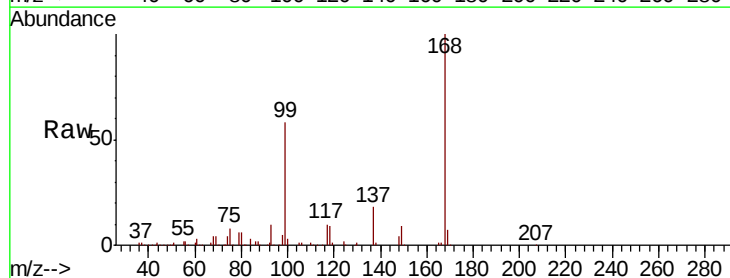


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

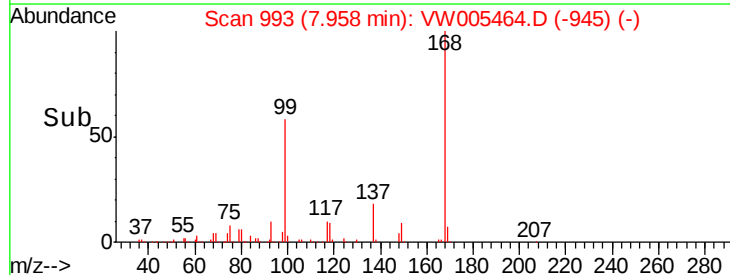
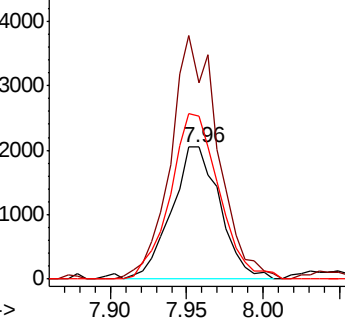


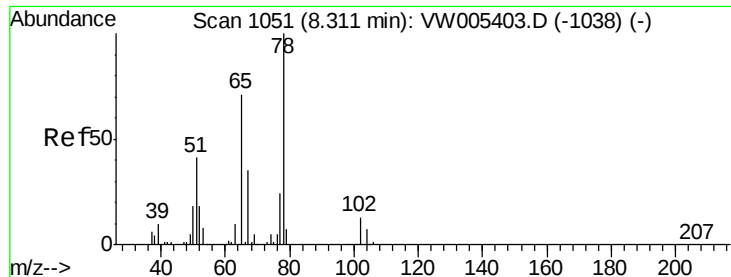
#31
Cyclohexane
Concen: 1.465 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.01 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

Tgt Ion: 56 Resp: 4511
Ion Ratio Lower Upper
56 100
69 145.9 27.2 40.8#
84 123.5 66.7 100.1#



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: 59.570 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

Instrument :

MSVOA_W

ClientSampleId :

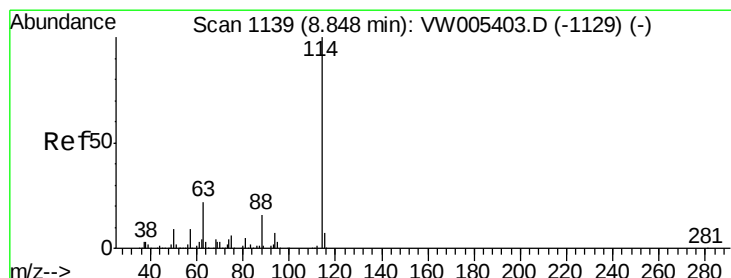
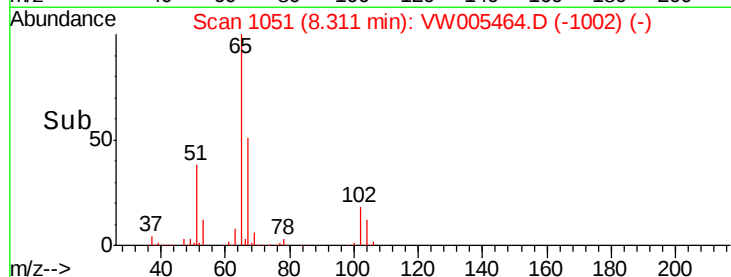
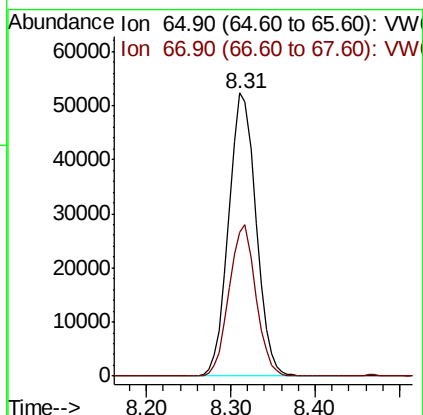
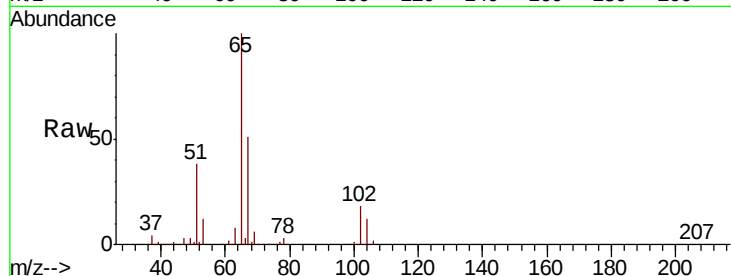
RB44766RTRE

Tgt Ion: 65 Resp: 114941

Ion Ratio Lower Upper

65 100

67 52.2 0.0 100.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

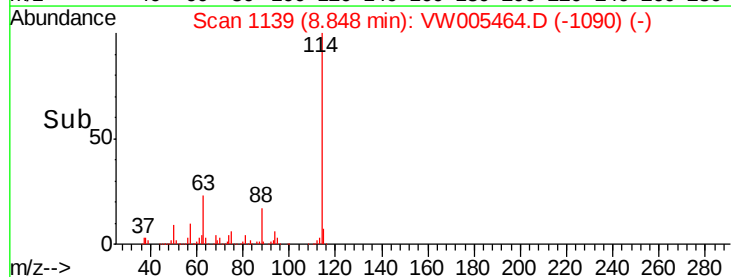
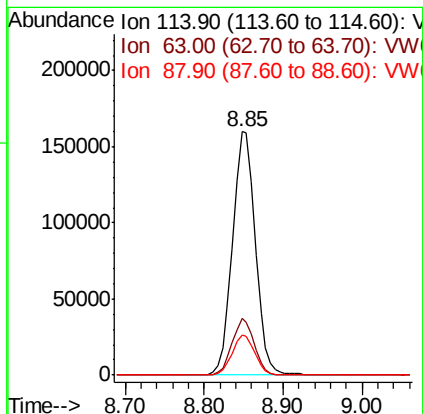
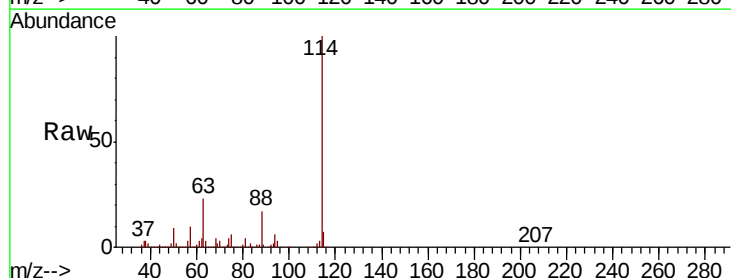
Tgt Ion: 114 Resp: 324007

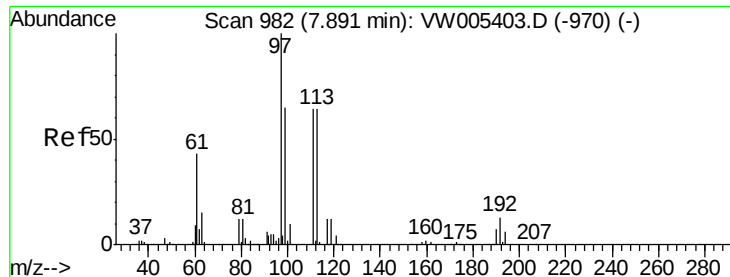
Ion Ratio Lower Upper

114 100

63 23.2 0.0 43.4

88 16.5 0.0 31.8

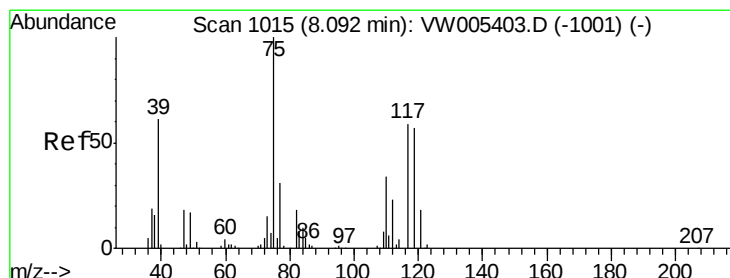
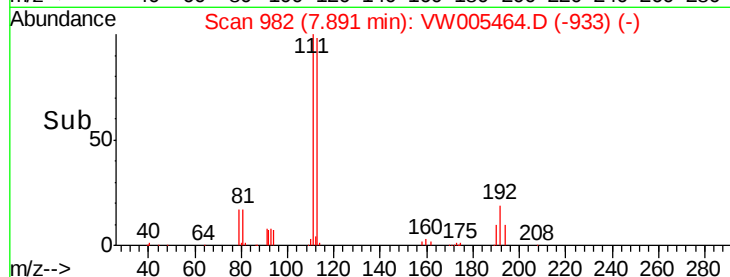
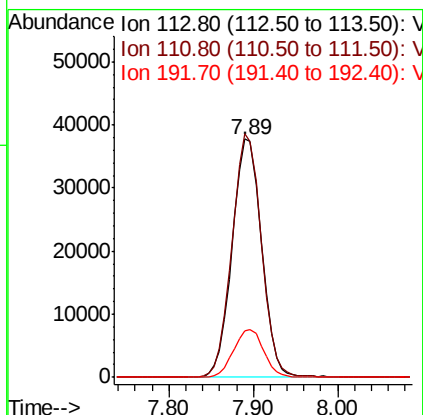
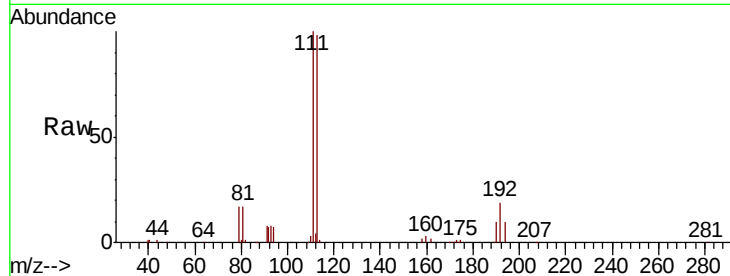




#35
 Dibromofluoromethane
 Concen: 49.224 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW005464.D
 Acq: 18 Sep 2018 06:43

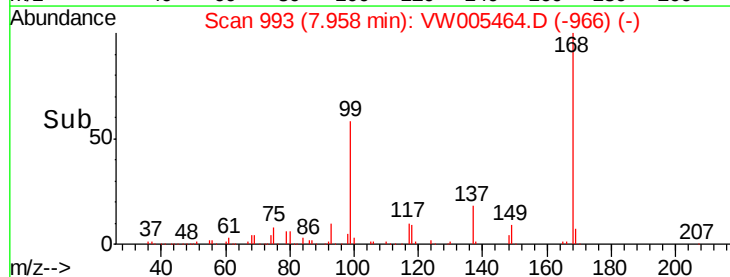
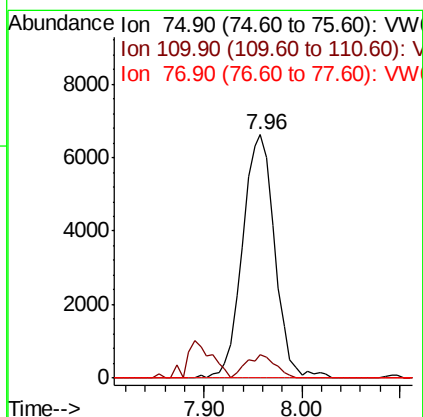
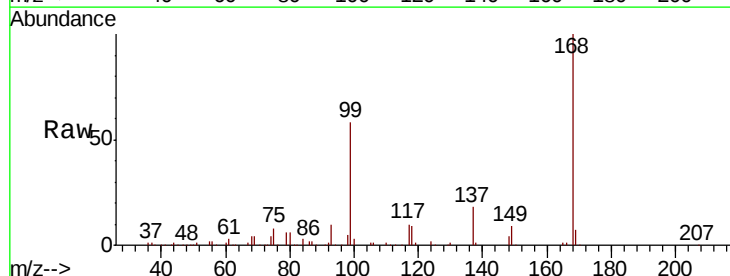
Instrument :
 MSVOA_W
 ClientSampleId :
 RB44766RTRE

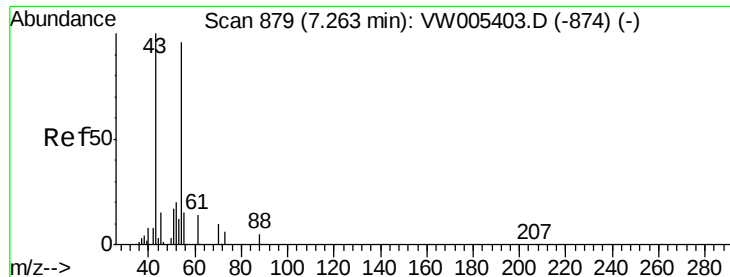
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.3	123.5
192	20.2	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.932 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005464.D
 Acq: 18 Sep 2018 06:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.8	50.4#
77	0.0	24.2	36.4#

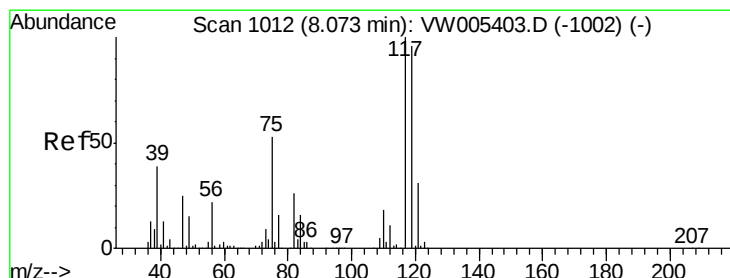
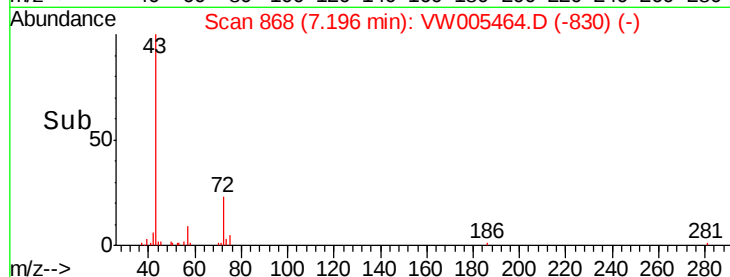
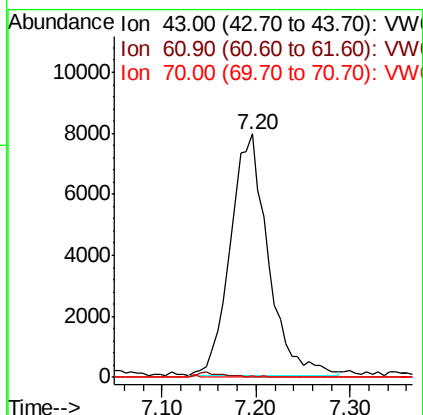
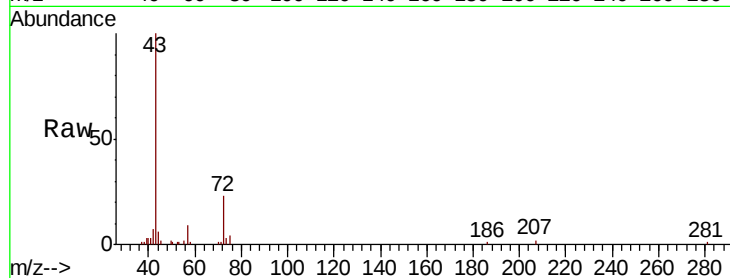




#37
 Ethyl Acetate
 Concen: 17.740 ug/l
 RT: 7.20 min Scan# 868
 Delta R.T. -0.07 min
 Lab File: VW005464.D
 Acq: 18 Sep 2018 06:43

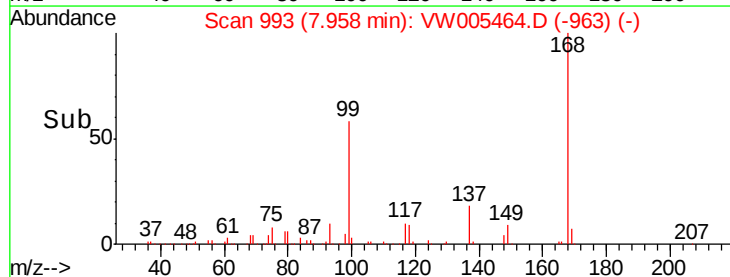
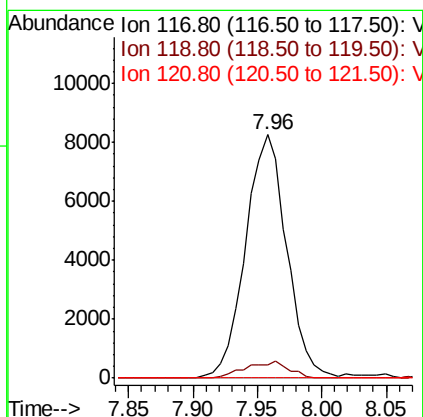
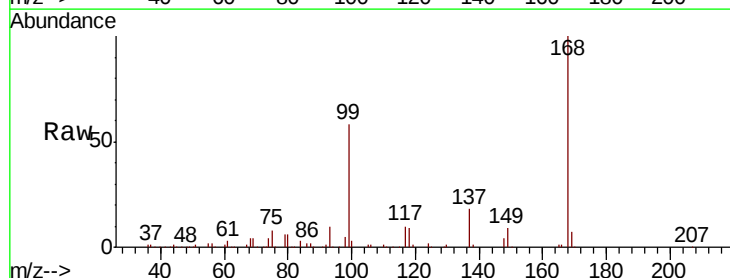
Instrument :
 MSVOA_W
 ClientSampleId :
 RB44766RTRE

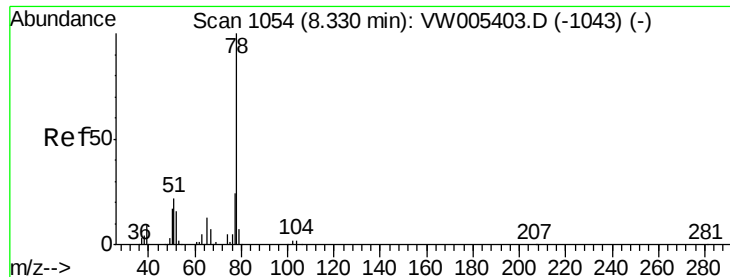
Tgt Ion: 43 Resp: 22122
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.3 16.9#
 70 0.1 8.2 12.4#



#38
 Carbon Tetrachloride
 Concen: 5.708 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.12 min
 Lab File: VW005464.D
 Acq: 18 Sep 2018 06:43

Tgt Ion: 117 Resp: 18238
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.8 115.2#
 121 0.0 24.7 37.1#





#40

Benzene

Concen: 1.106 ug/l

RT: 8.33 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

Instrument :

MSVOA_W

ClientSampleId :

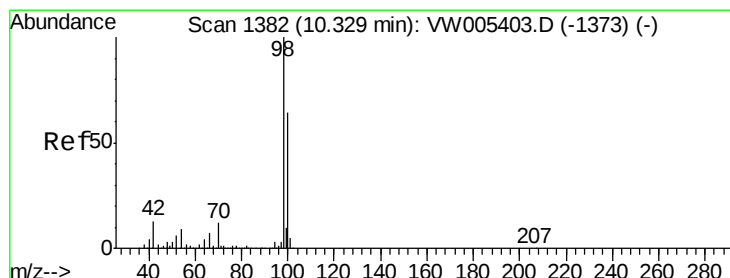
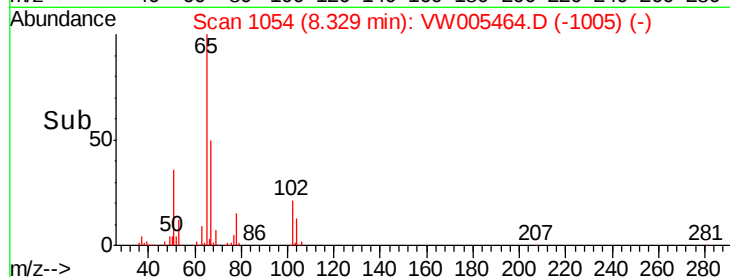
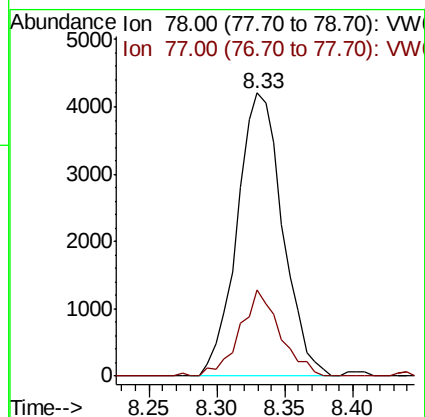
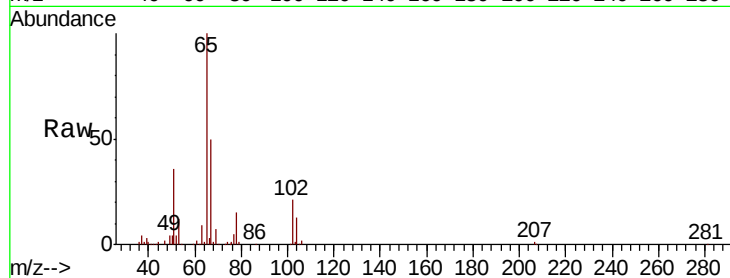
RB44766RTRE

Tgt Ion: 78 Resp: 9828

Ion Ratio Lower Upper

78 100

77 30.4 19.3 28.9#



#50

Toluene-d8

Concen: 29.238 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005464.D

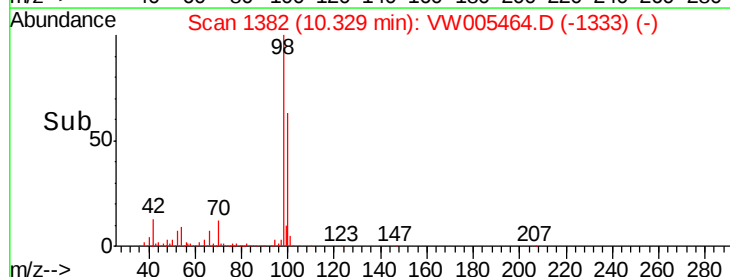
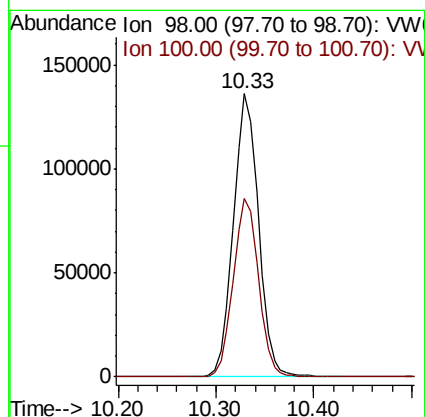
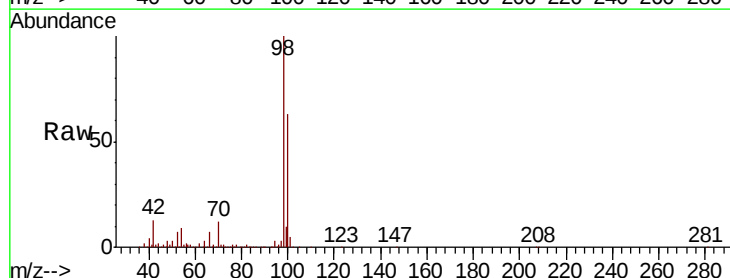
Acq: 18 Sep 2018 06:43

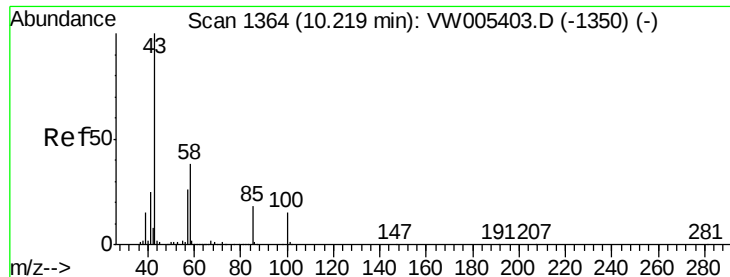
Tgt Ion: 98 Resp: 243245

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.0

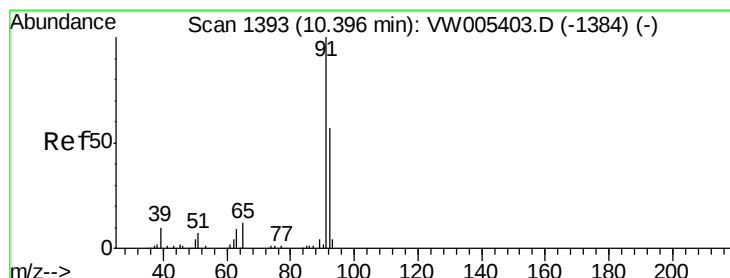
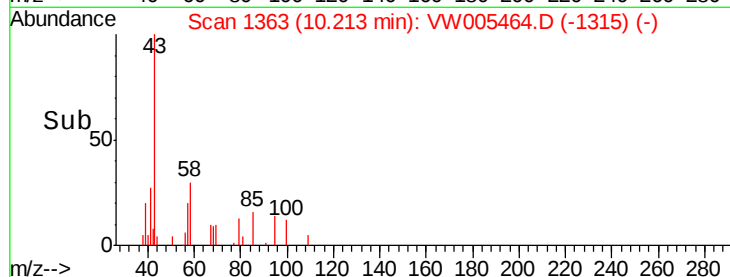
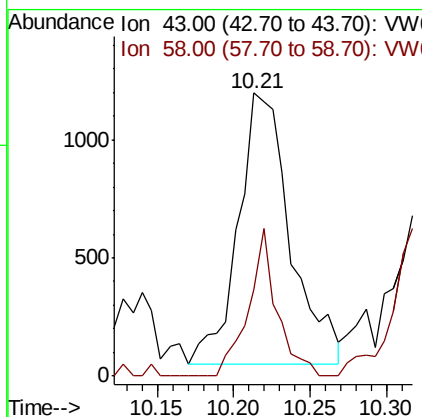
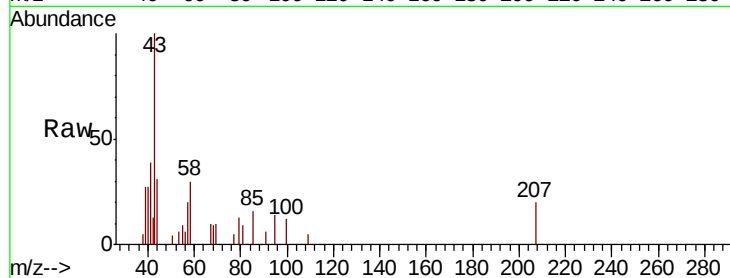




#51
 4-Methyl-2-Pentanone
 Concen: 2.169 ug/l
 RT: 10.21 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VW005464.D
 Acq: 18 Sep 2018 06:43

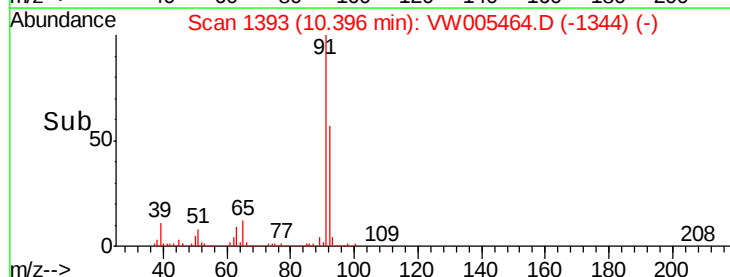
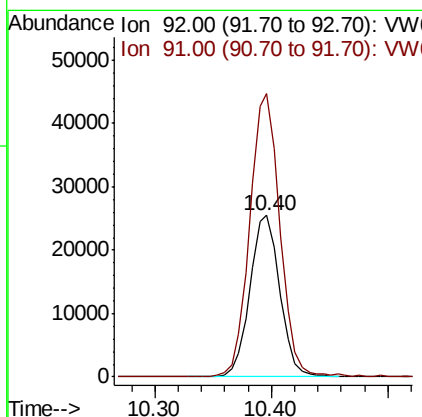
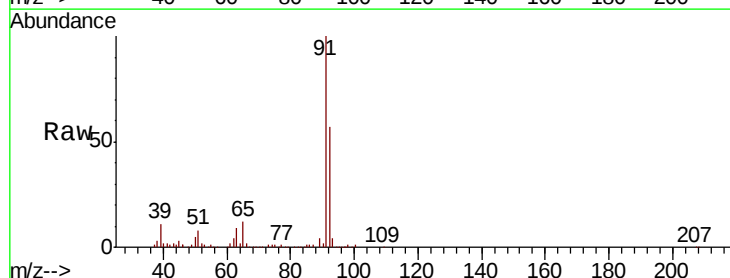
Instrument :
 MSVOA_W
 ClientSampleId :
 RB44766RTRE

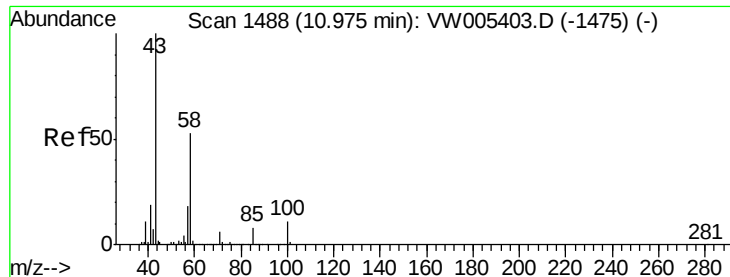
Tgt Ion: 43 Resp: 2717
 Ion Ratio Lower Upper
 43 100
 58 29.5 29.9 44.9#



#52
 Toluene
 Concen: 7.617 ug/l
 RT: 10.40 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VW005464.D
 Acq: 18 Sep 2018 06:43

Tgt Ion: 92 Resp: 45818
 Ion Ratio Lower Upper
 92 100
 91 177.1 139.1 208.7

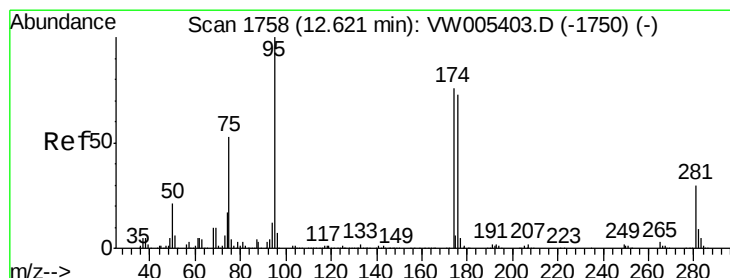
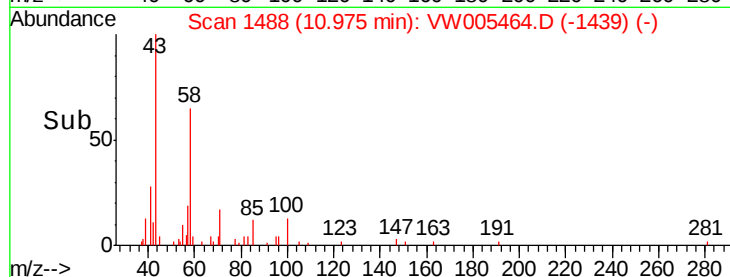
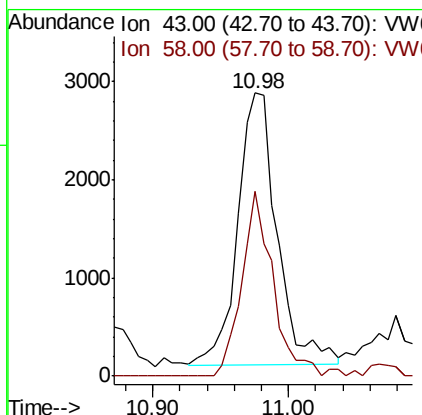
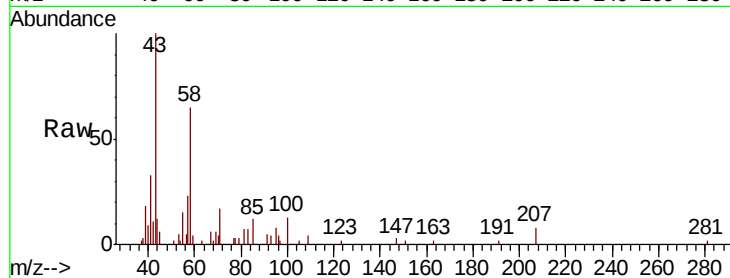




#59
2-Hexanone
Concen: 6.602 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. -0.00 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

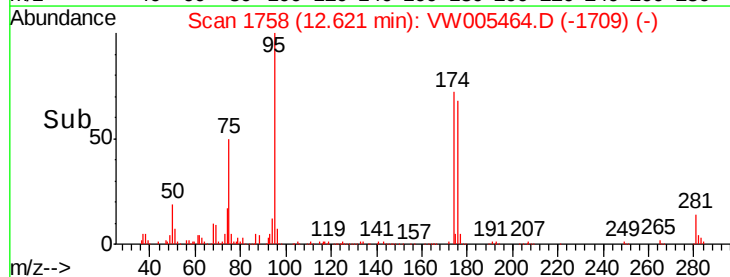
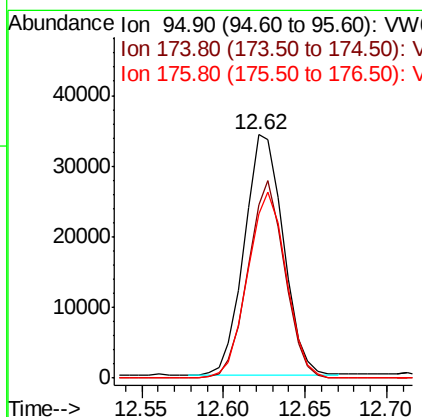
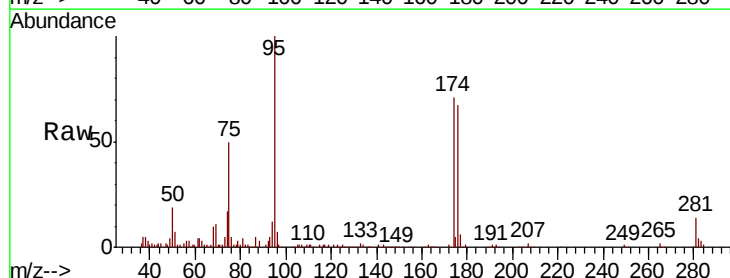
Instrument :
MSVOA_W
ClientSampleId :
RB44766RTRE

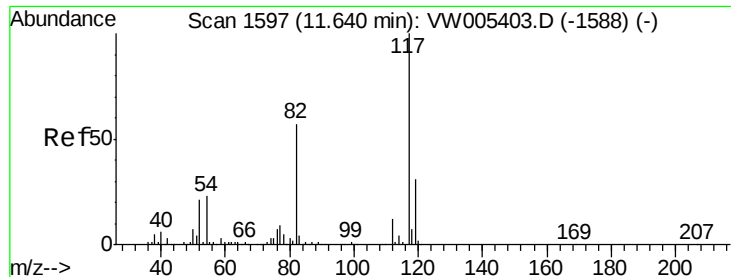
Tgt Ion: 43 Resp: 5634
Ion Ratio Lower Upper
43 100
58 54.3 25.5 76.5



#62
4-Bromofluorobenzene
Concen: 18.688 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

Tgt Ion: 95 Resp: 57008
Ion Ratio Lower Upper
95 100
174 77.2 0.0 161.2
176 76.1 0.0 156.6

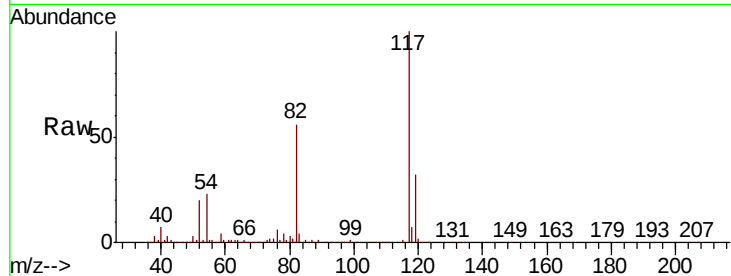




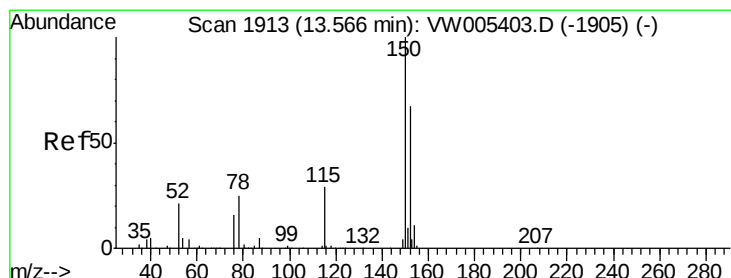
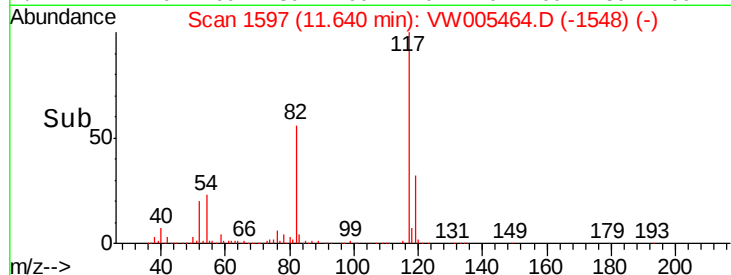
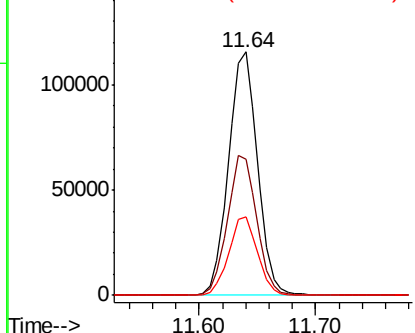
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

Instrument :
MSVOA_W
ClientSampleId :
RB44766RTRE

Tgt Ion:117 Resp: 200474
Ion Ratio Lower Upper
117 100
82 56.0 45.9 68.9
119 32.1 24.8 37.2

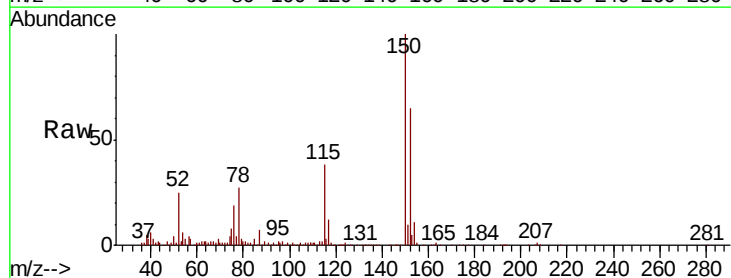


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

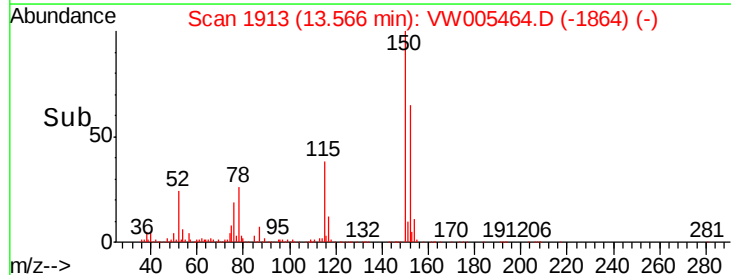
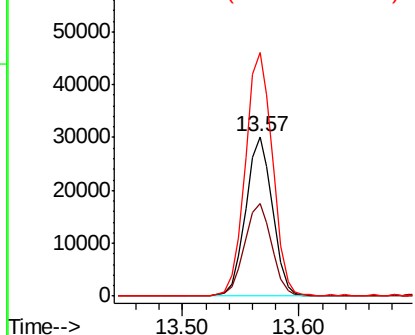


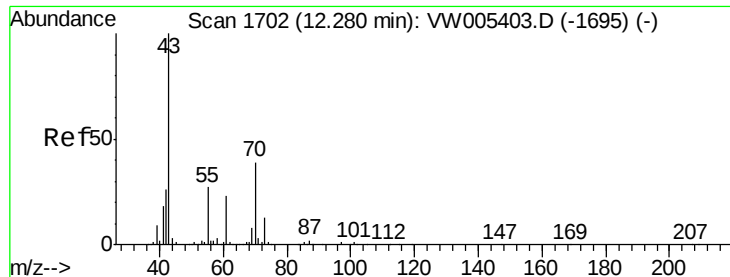
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW005464.D
Acq: 18 Sep 2018 06:43

Tgt Ion:152 Resp: 48430
Ion Ratio Lower Upper
152 100
115 58.9 29.5 88.5
150 154.5 0.0 345.6



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





#74

N-ethyl acetate

Concen: 10.231 ug/l

RT: 12.24 min Scan# 1695

Delta R.T. -0.04 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

Instrument :

MSVOA_W

ClientSampleId :

RB44766RTRE

Tgt Ion: 43 Resp: 7325

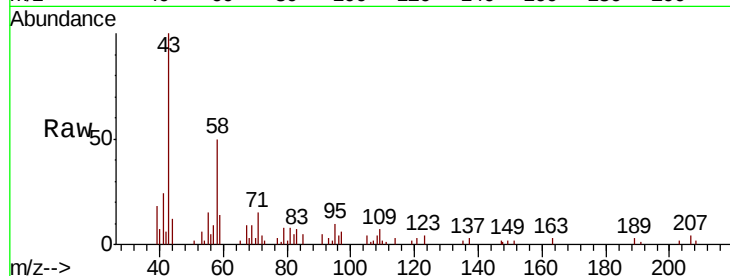
Ion Ratio Lower Upper

43 100

70 0.0 31.9 47.9#

55 7.6 21.4 32.0#

61 0.0 18.3 27.5#

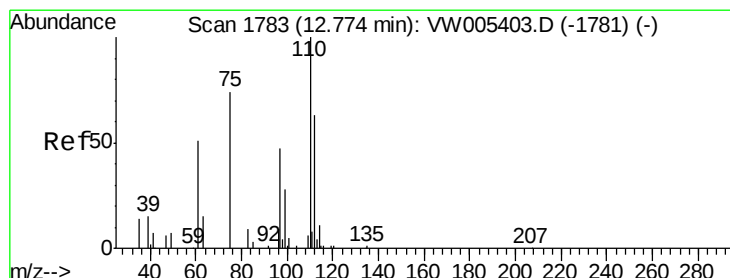
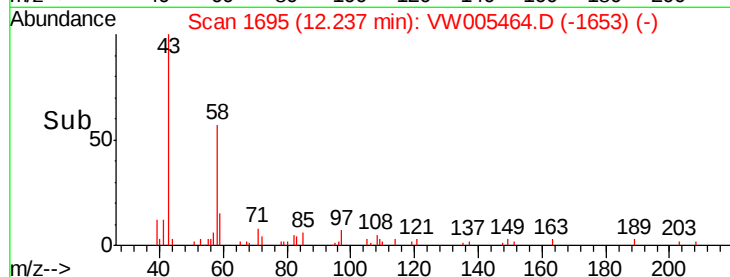
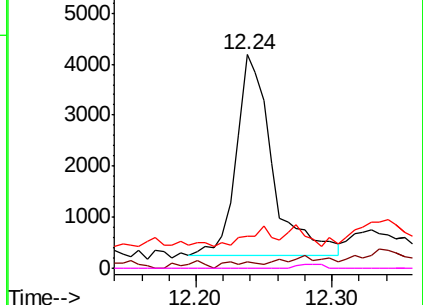


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 72.709 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. -0.15 min

Lab File: VW005464.D

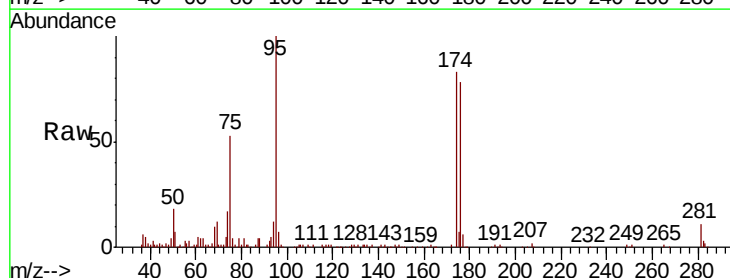
Acq: 18 Sep 2018 06:43

Tgt Ion: 75 Resp: 28962

Ion Ratio Lower Upper

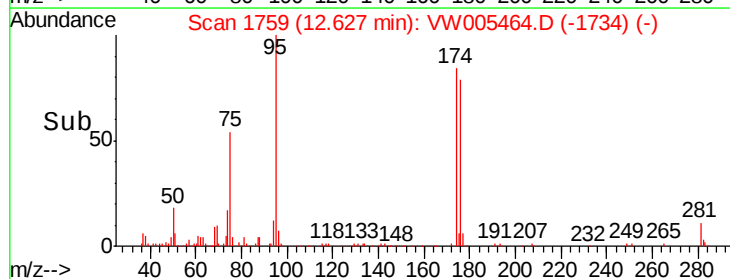
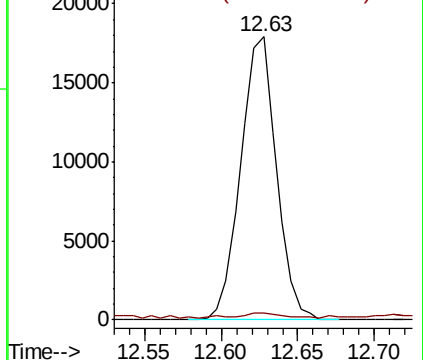
75 100

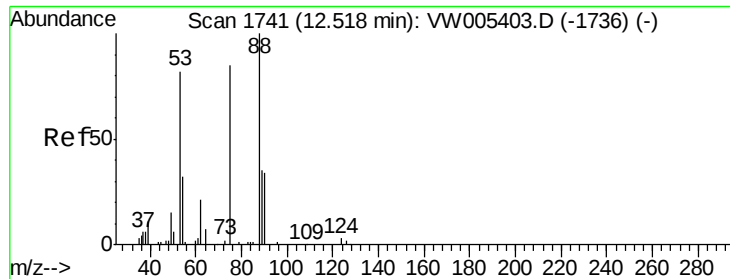
77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 188.613 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.11 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

Instrument :

MSVOA_W

ClientSampleId :

RB44766RTRE

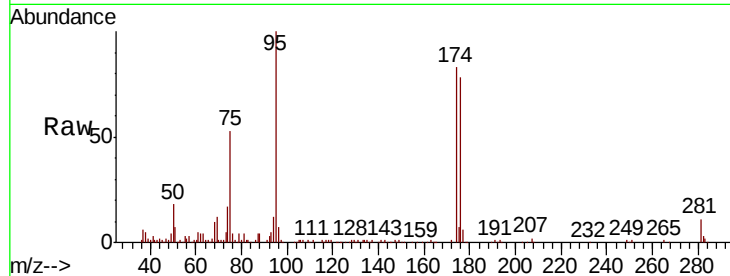
Tgt Ion: 75 Resp: 28962

Ion Ratio Lower Upper

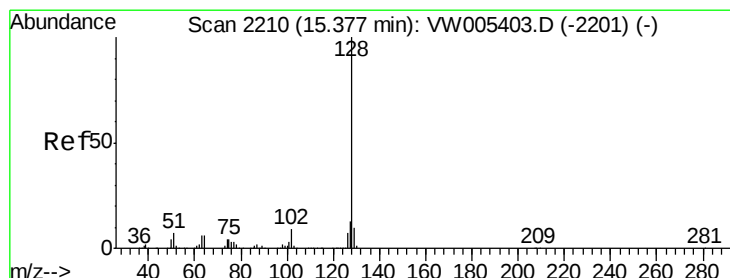
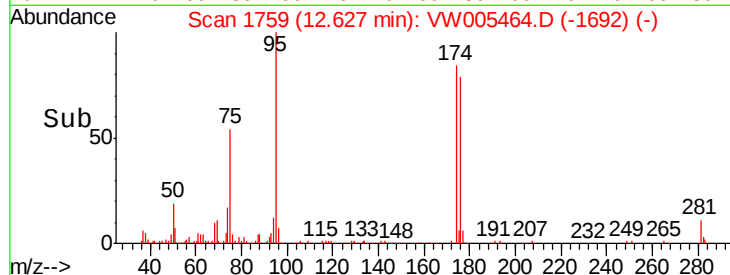
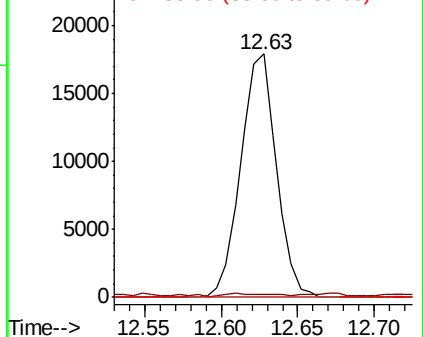
75 100

53 1.0 83.2 124.8#

89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 6.619 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

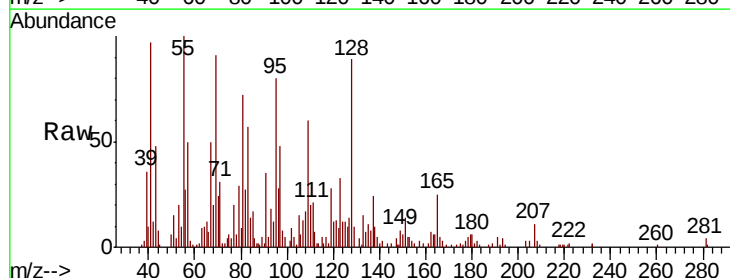
Tgt Ion: 128 Resp: 10477

Ion Ratio Lower Upper

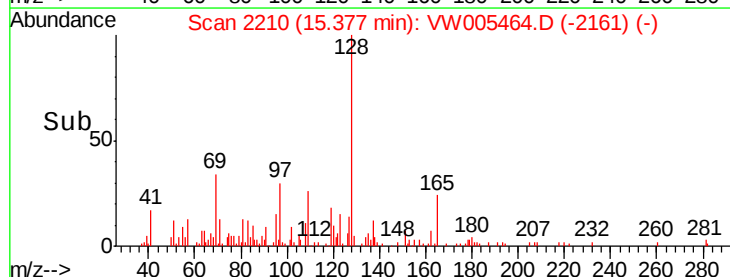
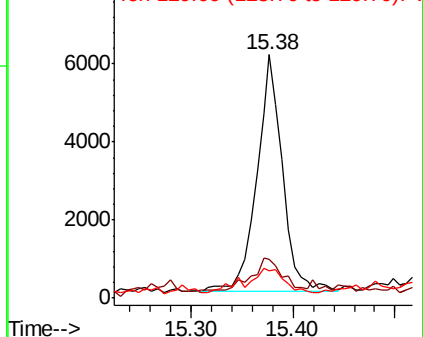
128 100

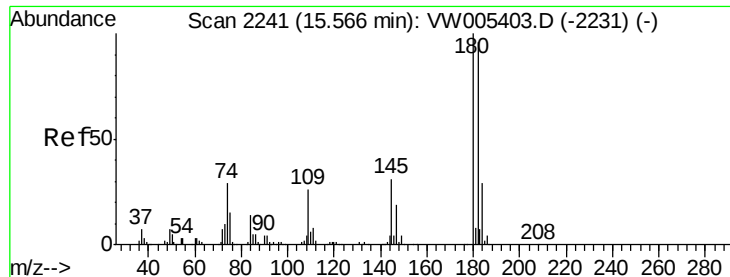
127 18.3 11.0 16.4#

129 11.3 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





#96

1,2,3-Trichlorobenzene

Concen: 2.786 ug/l

RT: 15.58 min Scan# 2244

Delta R.T. 0.02 min

Lab File: VW005464.D

Acq: 18 Sep 2018 06:43

Instrument :

MSVOA_W

ClientSampleId :

RB44766RTRE

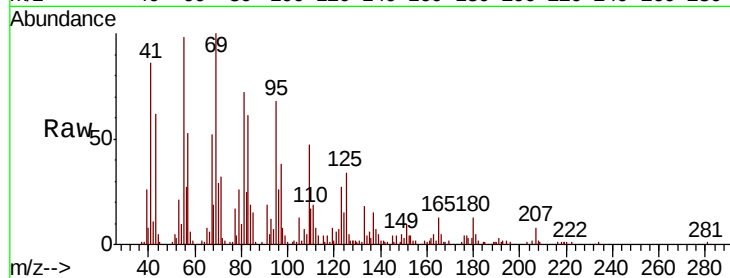
Tgt Ion:180 Resp: 2310

Ion Ratio Lower Upper

180 100

182 3.0 48.1 144.4#

145 0.0 15.9 47.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

