

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
 Data File : VW005453.D
 Acq On : 18 Sep 2018 02:03
 Operator : SY/AP
 Sample : J4948-01
 Misc : 5.89G/5ML/MSVOA_W/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 18 06:03:49 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	154152	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	269838	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	165416	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	39855	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	100660	62.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.82%	
35) Dibromofluoromethane	7.89	113	78554	51.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.84%	
50) Toluene-d8	10.33	98	217396	31.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.76%	
62) 4-Bromofluorobenzene	12.63	95	47496	18.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.40%	

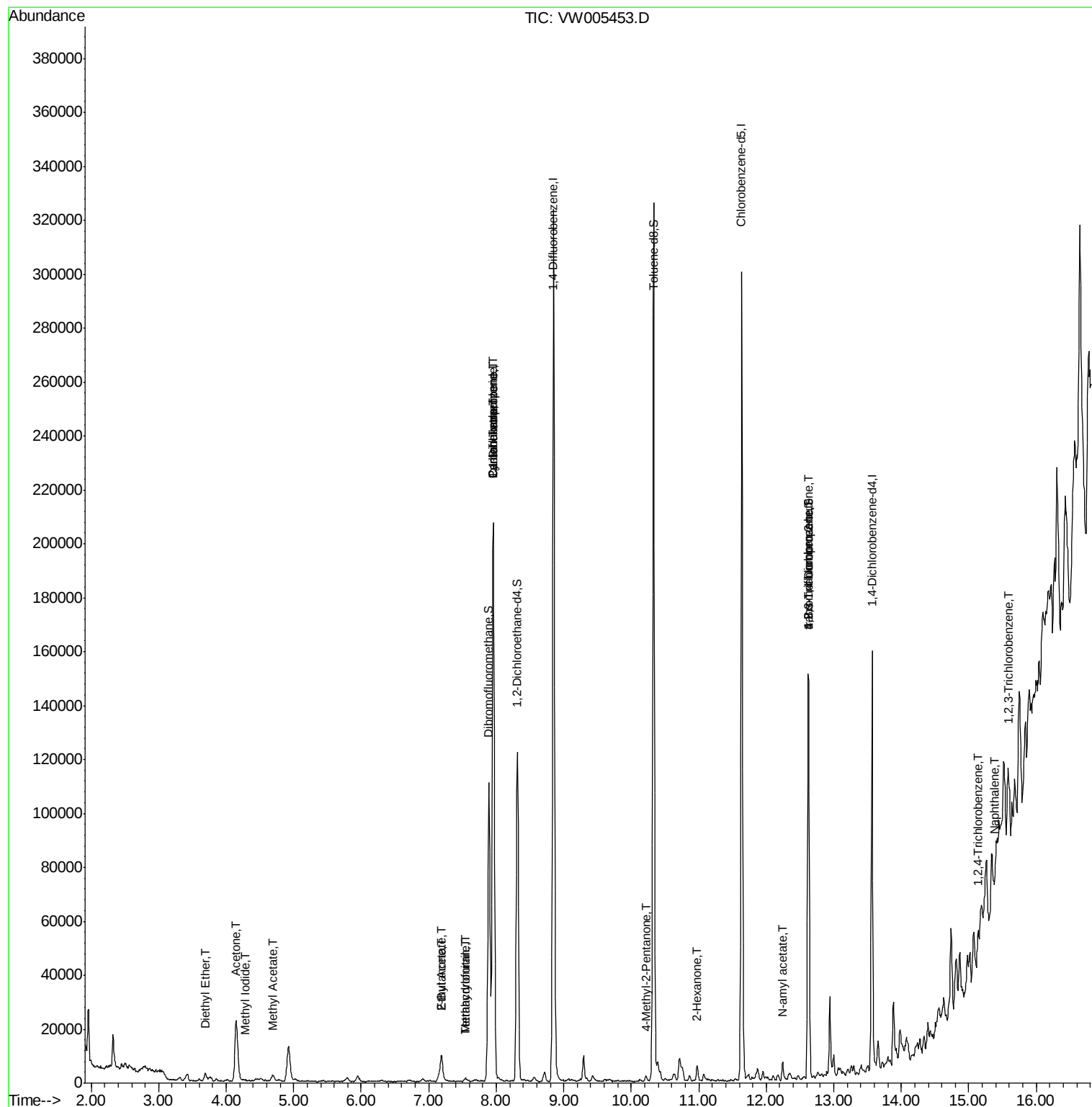
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.00	85	336	Below Cal	93
5) Bromomethane	2.78	94	526	Below Cal	# 56
8) Diethyl Ether	3.70	74	1212	1.806 ug/l	# 28
10) Methyl Iodide	4.28	142	467	4.307 ug/l	# 93
11) Tert butyl alcohol	5.20	59	148	Below Cal	# 71
13) Acrolein	3.85	56	19	Below Cal	# 1
16) Acetone	4.15	43	44359	188.334 ug/l	98
18) Methyl Acetate	4.68	43	4951	6.439 ug/l	# 76
25) 2-Butanone	7.19	43	15403	40.017 ug/l	96
29) Tetrahydrofuran	7.54	42	575	2.345 ug/l	# 59
31) Cyclohexane	7.95	56	3546	1.388 ug/l	# 1
36) 1,1-Dichloropropene	7.96	75	12137	4.753 ug/l	# 51
37) Ethyl Acetate	7.19	43	15403	14.832 ug/l	# 69
38) Carbon Tetrachloride	7.96	117	15895	5.973 ug/l	# 16
41) Methacrylonitrile	7.55	41	806	1.286 ug/l	# 50
51) 4-Methyl-2-Pentanone	10.21	43	1779	1.705 ug/l	# 70
59) 2-Hexanone	10.98	43	3829	5.388 ug/l	90
74) N-amyl acetate	12.24	43	4557	7.734 ug/l	# 51
76) 1,2,3-Trichloropropane	12.62	75	24435	74.543 ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.62	75	24435	193.369 ug/l	# 9
93) 1,2,4-Trichlorobenzene	15.14	180	1687	2.158 ug/l	# 74
95) Naphthalene	15.38	128	8506	6.530 ug/l	# 93
96) 1,2,3-Trichlorobenzene	15.58	180	1891	2.772 ug/l	# 12

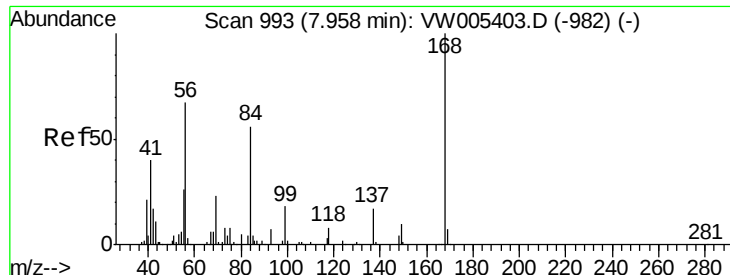
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW005453.D

Acq: 18 Sep 2018 02:03

Instrument :

MSVOA_W

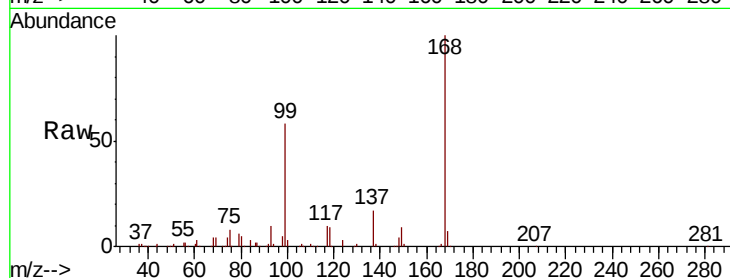
ClientSampled :

Tgt Ion:168 Resp: 154152

Ion Ratio Lower Upper

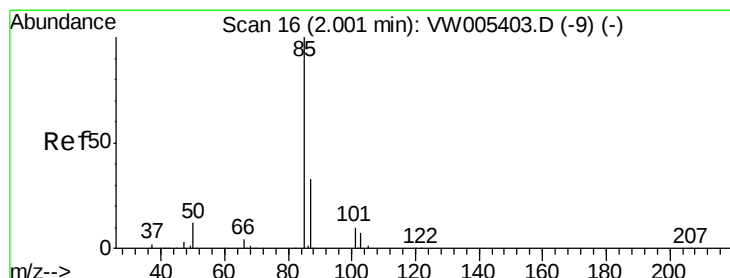
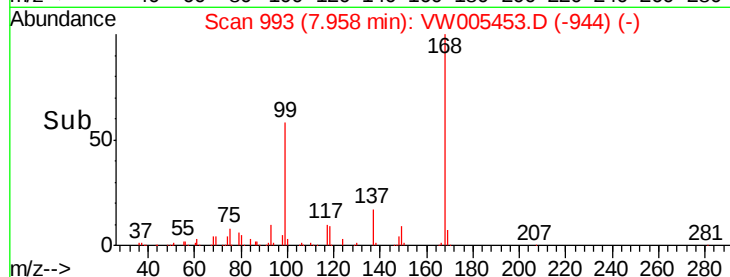
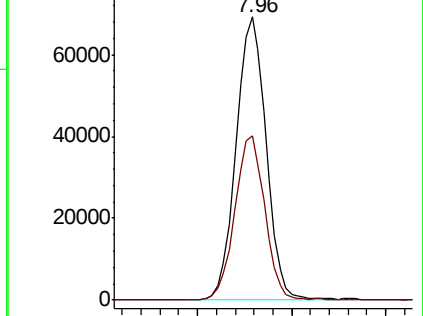
168 100

99 58.1 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: VW005453.D

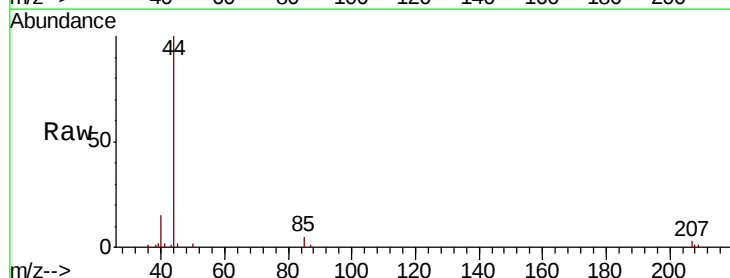
Acq: 18 Sep 2018 02:03

Tgt Ion: 85 Resp: 336

Ion Ratio Lower Upper

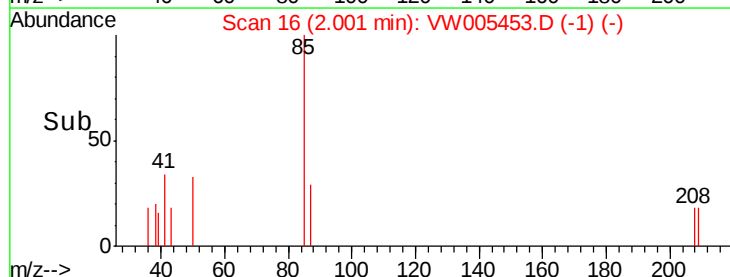
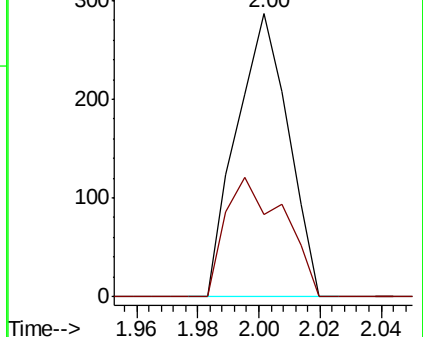
85 100

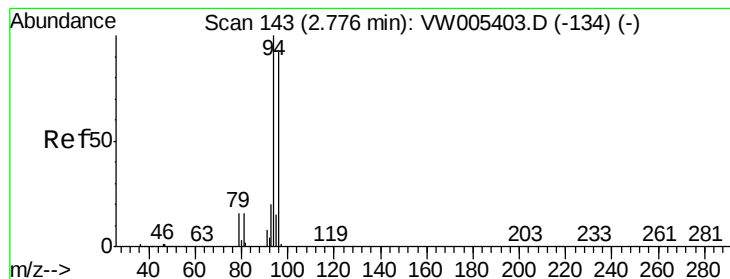
87 28.9 16.4 49.1



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: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW005453.D

Acq: 18 Sep 2018 02:03

Instrument :

MSVOA_W

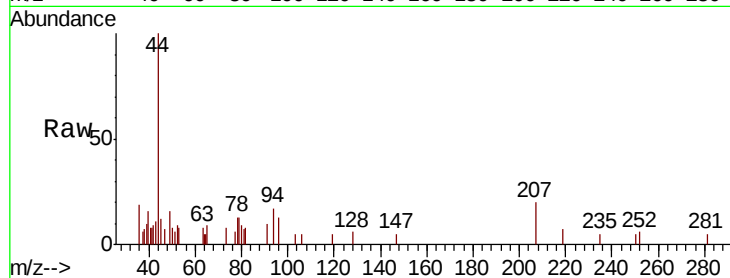
ClientSampled :

Tgt Ion: 94 Resp: 526

Ion Ratio Lower Upper

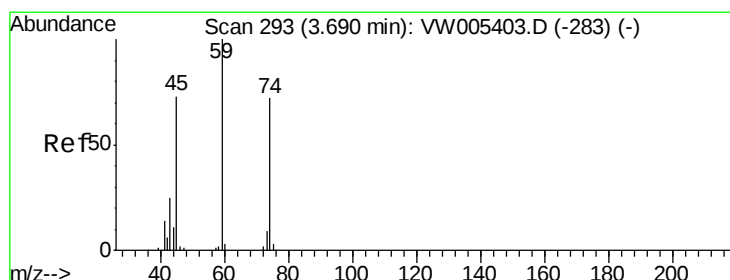
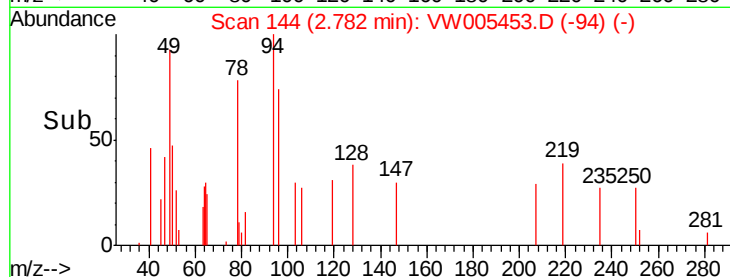
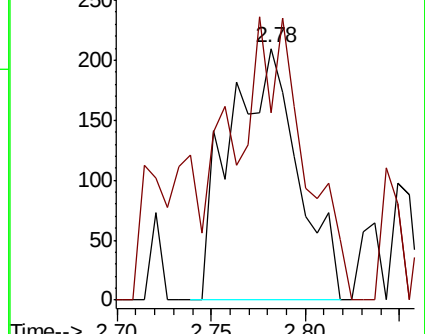
94 100

96 50.0 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: 1.806 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.01 min

Lab File: VW005453.D

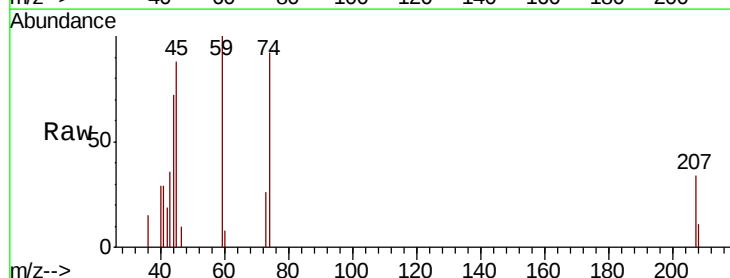
Acq: 18 Sep 2018 02:03

Tgt Ion: 74 Resp: 1212

Ion Ratio Lower Upper

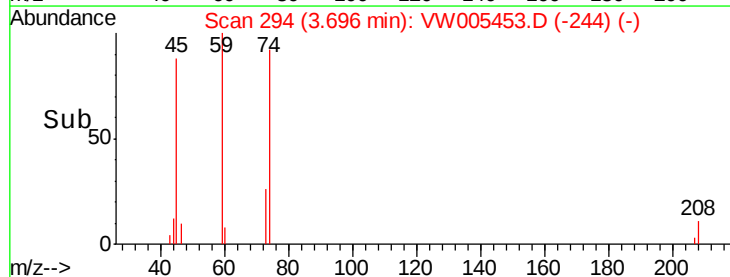
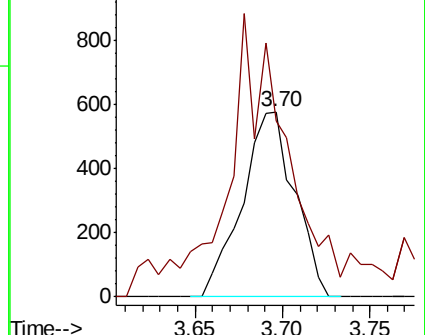
74 100

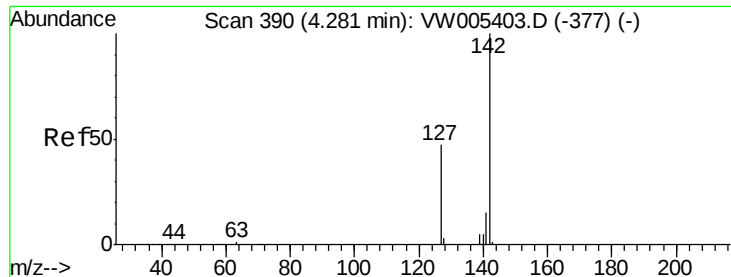
45 180.5 53.1 159.3#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

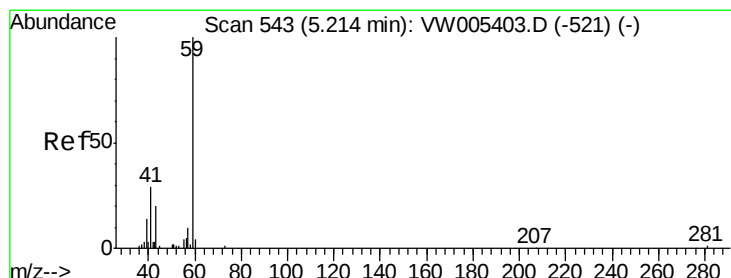
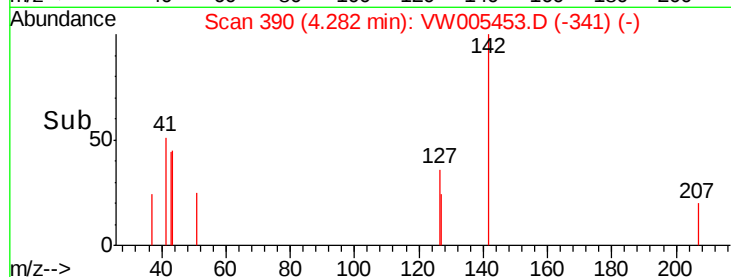
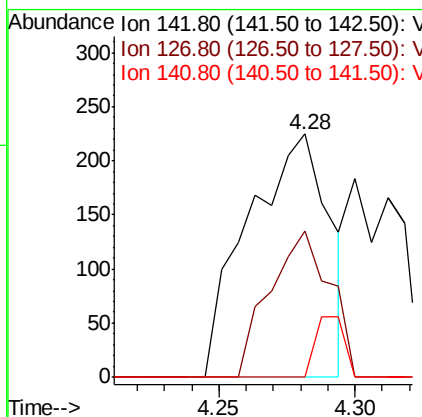
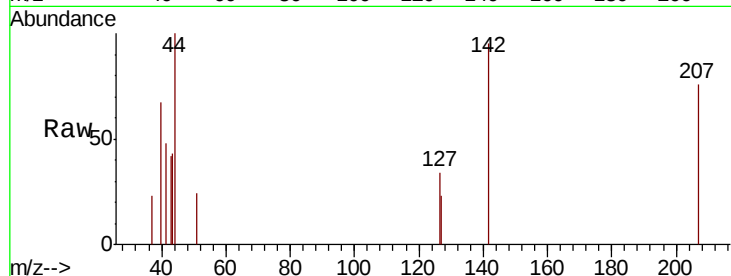




#10
Methyl Iodide
Concen: 4.307 ug/l
RT: 4.28 min Scan# 390
Delta R.T. 0.00 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

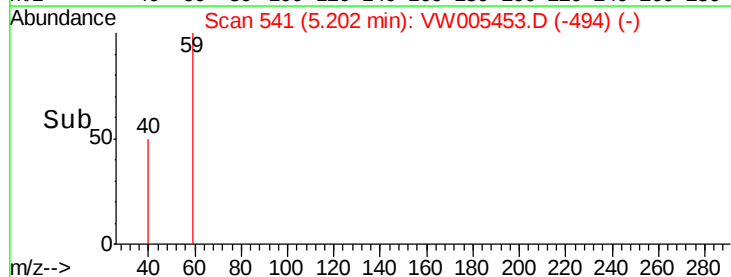
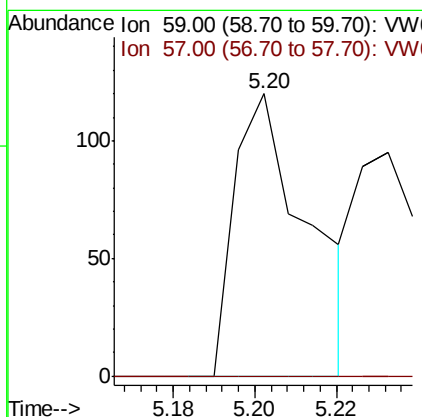
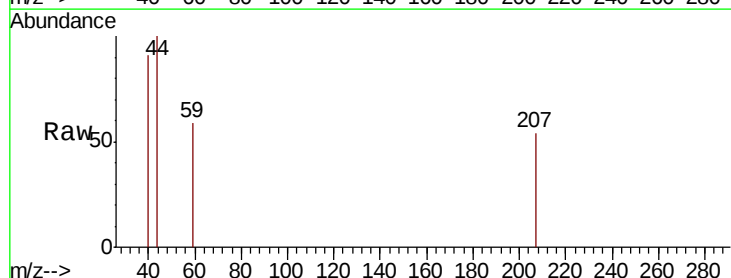
Instrument :
MSVOA_W
ClientSampled :

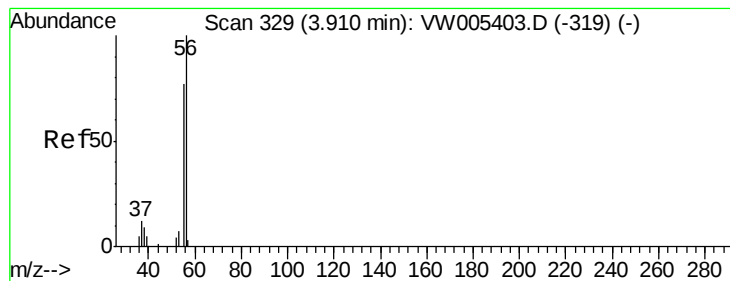
Tgt Ion: 142 Resp: 467
Ion Ratio Lower Upper
142 100
127 44.3 37.5 56.3
141 8.8 12.4 18.6#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.20 min Scan# 541
Delta R.T. -0.01 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

Tgt Ion: 59 Resp: 148
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#13

Acrolein

Concen: Below Cal

RT: 3.85 min Scan# 320

Delta R.T. -0.05 min

Lab File: VW005453.D

Acq: 18 Sep 2018 02:03

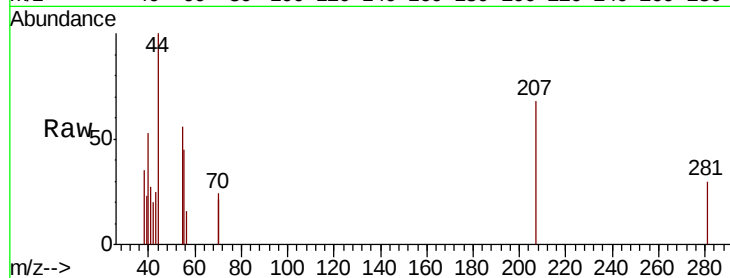
Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 56 Resp: 19

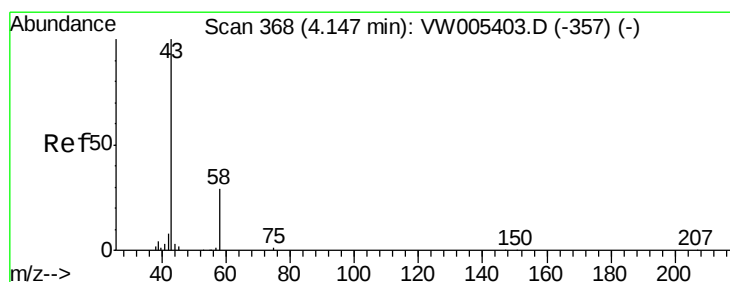
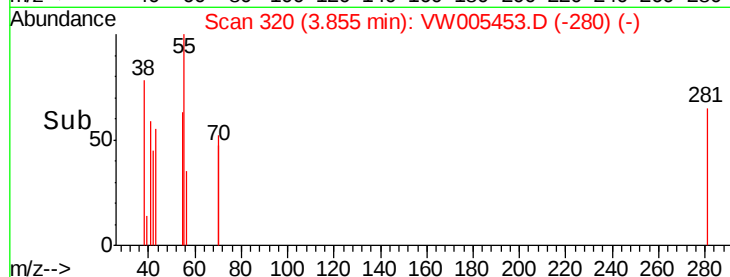
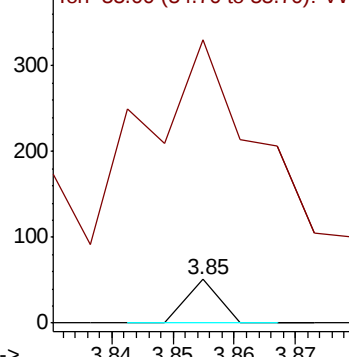
Ion Ratio Lower Upper

56 100

55 3436.8 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: 188.334 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW005453.D

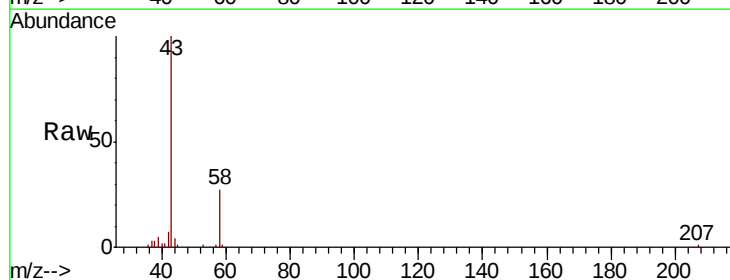
Acq: 18 Sep 2018 02:03

Tgt Ion: 43 Resp: 44359

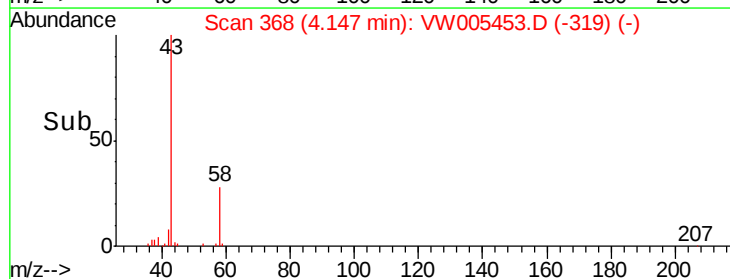
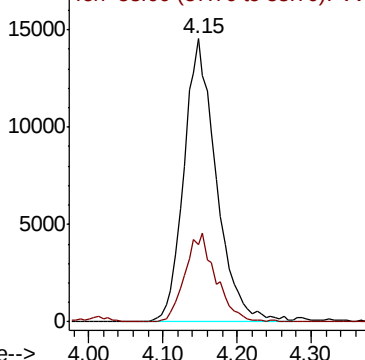
Ion Ratio Lower Upper

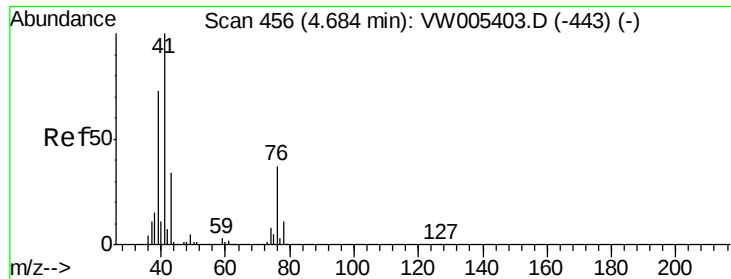
43 100

58 27.4 22.8 34.2



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

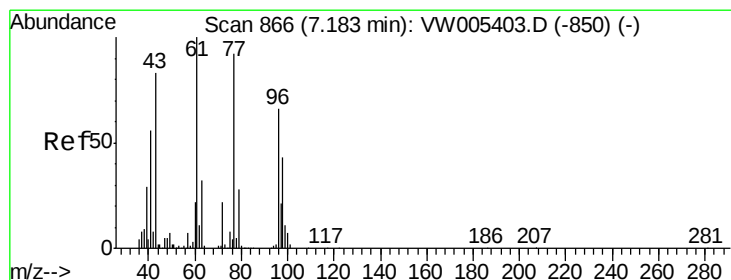
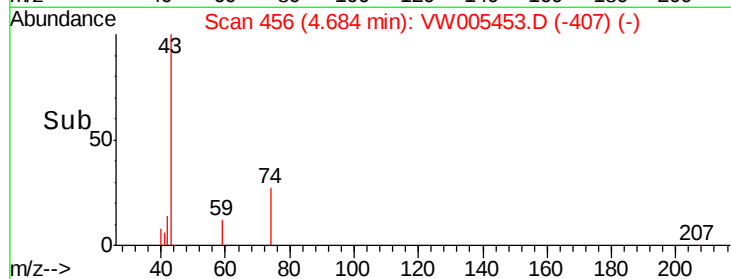
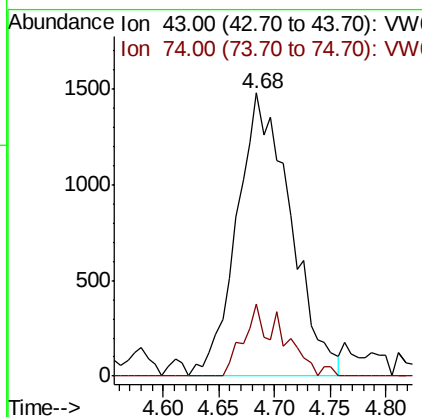
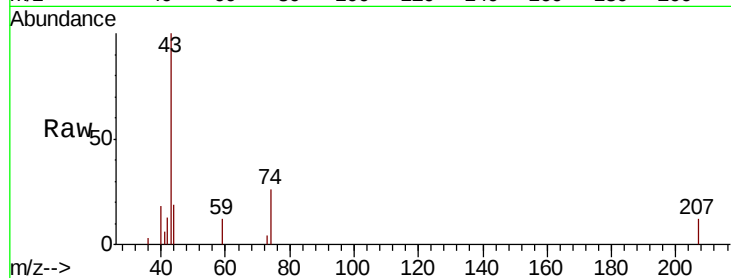




#18
Methyl Acetate
Concen: 6.439 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.00 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

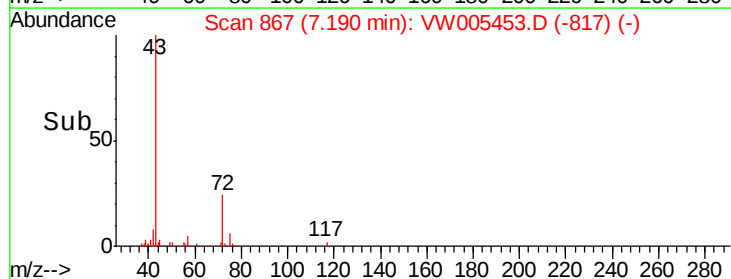
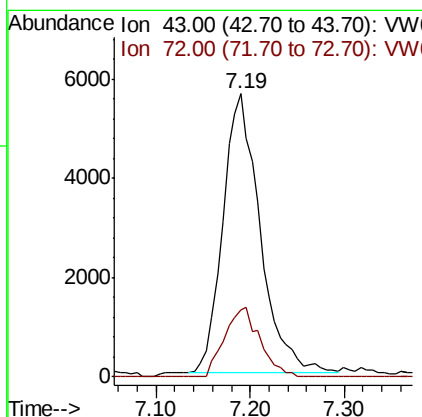
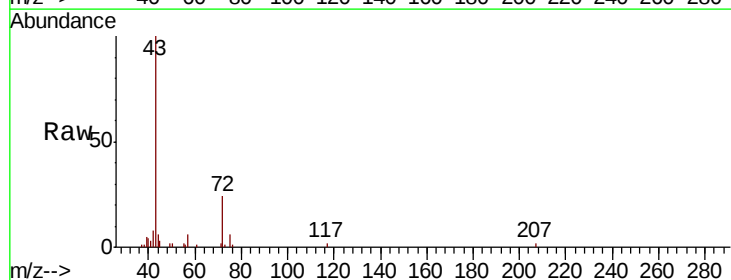
Instrument :
MSVOA_W
ClientSampleId :

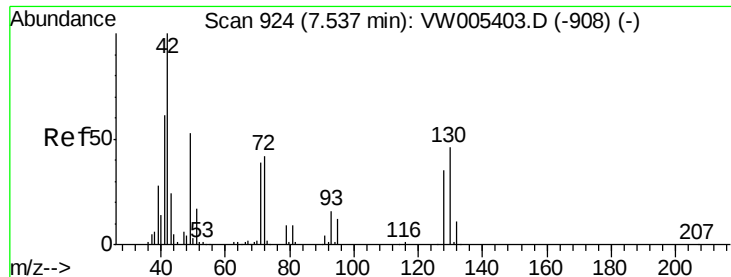
Tgt Ion: 43 Resp: 4951
Ion Ratio Lower Upper
43 100
74 10.6 17.7 26.5#



#25
2-Butanone
Concen: 40.017 ug/l
RT: 7.19 min Scan# 867
Delta R.T. 0.01 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

Tgt Ion: 43 Resp: 15403
Ion Ratio Lower Upper
43 100
72 24.2 21.1 31.7

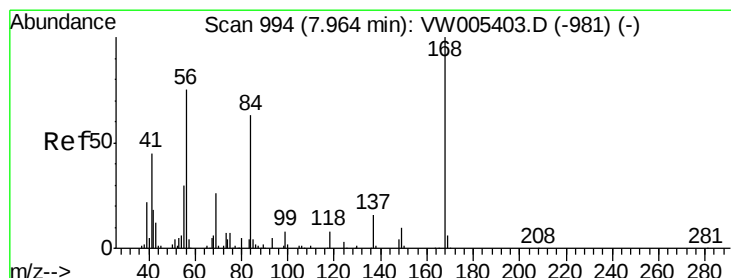
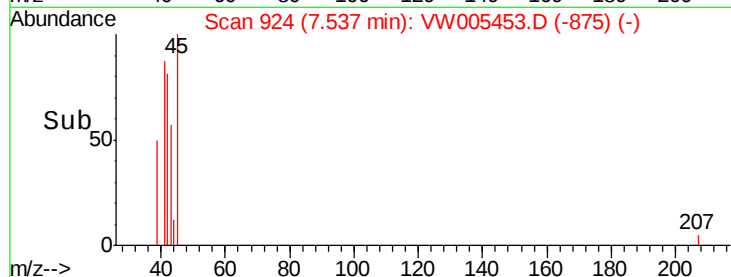
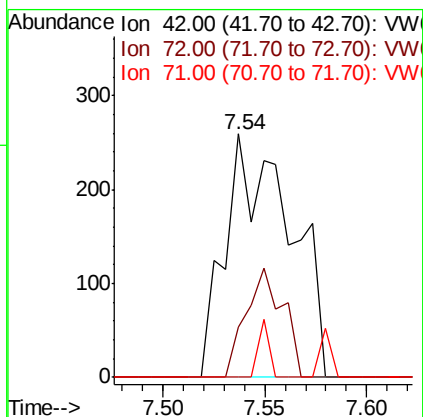
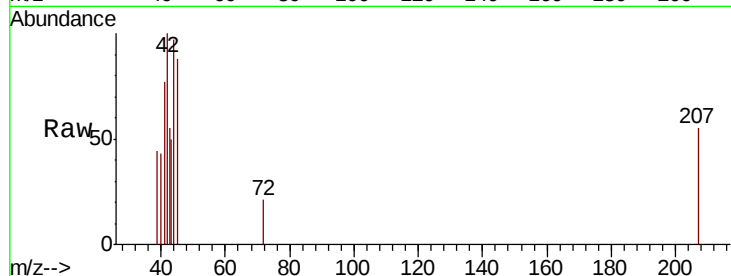




#29
Tetrahydrofuran
Concen: 2.345 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.00 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

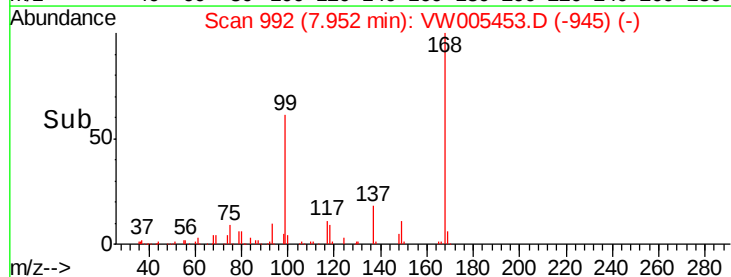
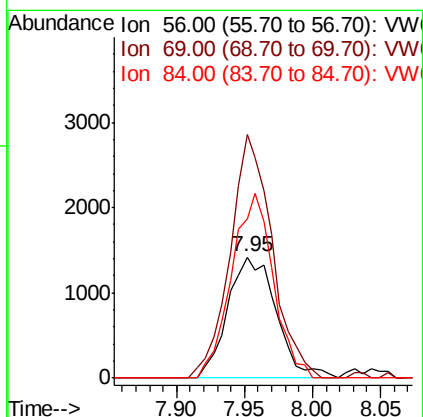
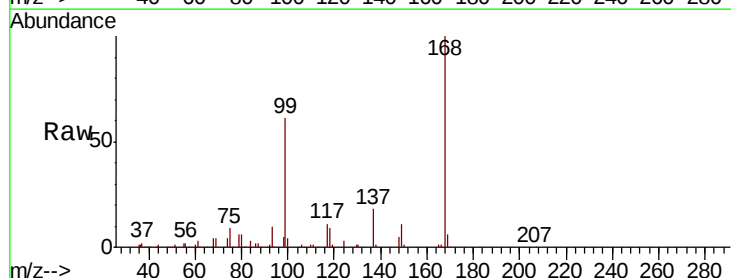
Instrument :
MSVOA_W
ClientSampleId :

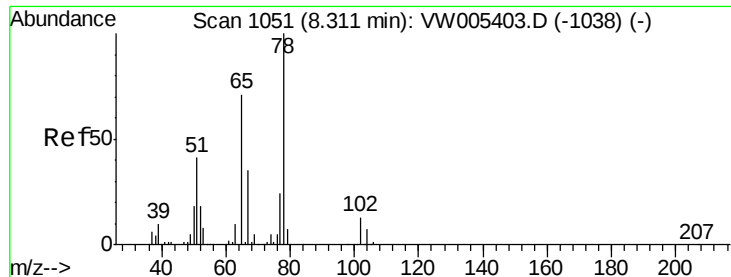
Tgt Ion: 42 Resp: 575
Ion Ratio Lower Upper
42 100
72 25.4 33.2 49.8#
71 4.0 31.0 46.6#



#31
Cyclohexane
Concen: 1.388 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

Tgt Ion: 56 Resp: 3546
Ion Ratio Lower Upper
56 100
69 201.6 27.2 40.8#
84 132.1 66.7 100.1#

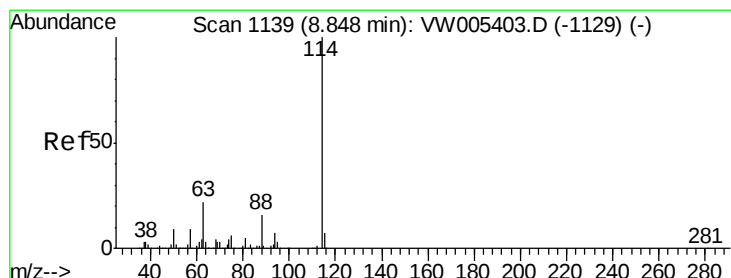
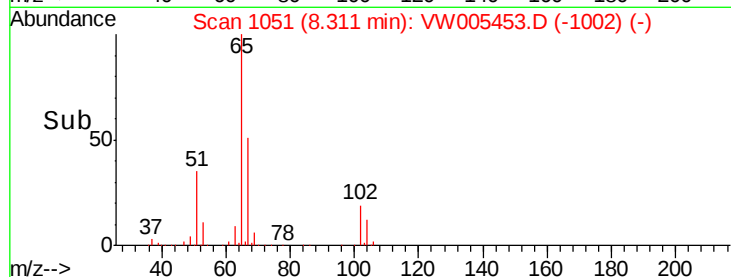
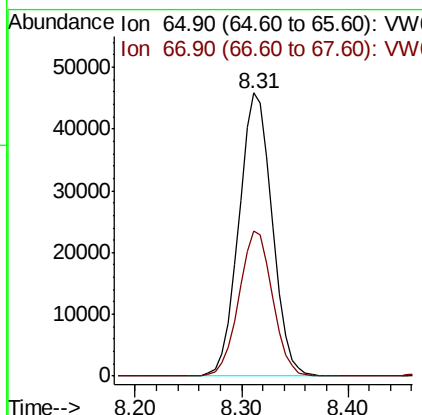
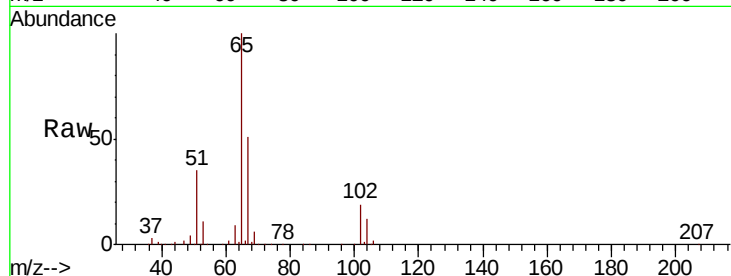




#33
 1,2-Dichloroethane-d4
 Concen: 62.908 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VW005453.D
 Acq: 18 Sep 2018 02:03

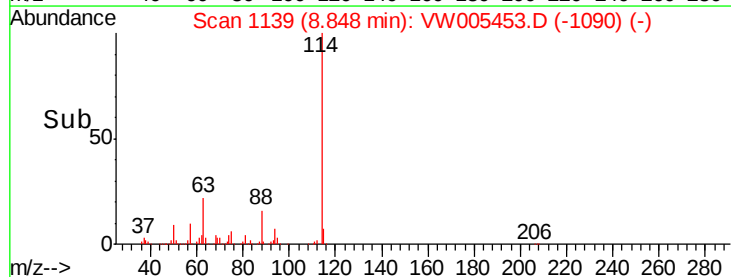
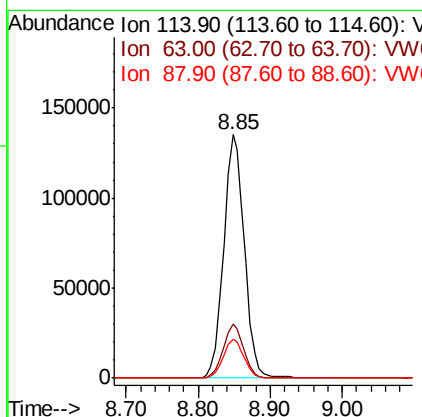
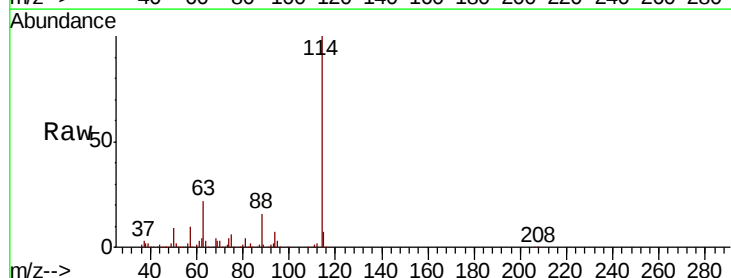
Instrument :
 MSVOA_W
 ClientSampled :

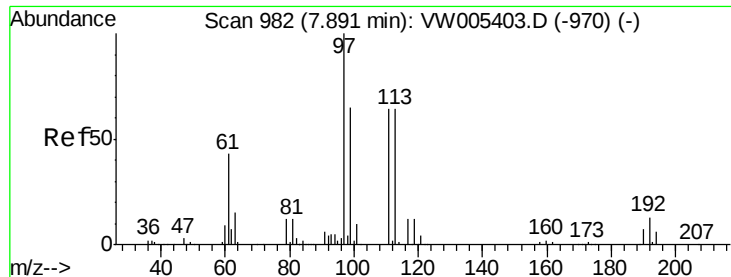
Tgt Ion: 65 Resp: 100660
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW005453.D
 Acq: 18 Sep 2018 02:03

Tgt Ion: 114 Resp: 269838
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.4
 88 16.2 0.0 31.8

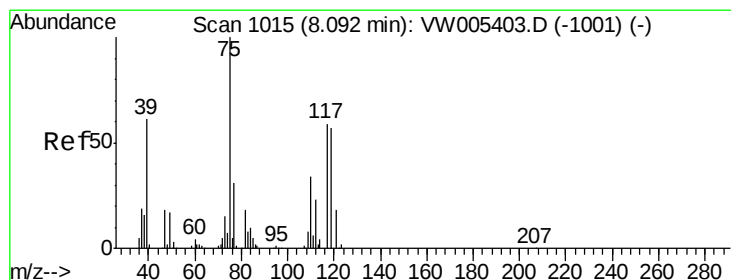
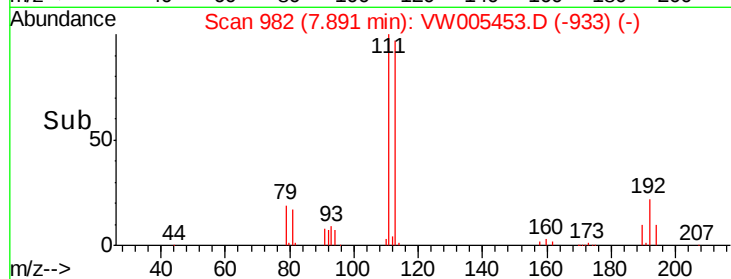
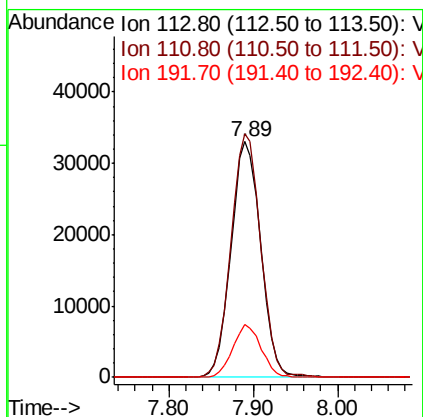
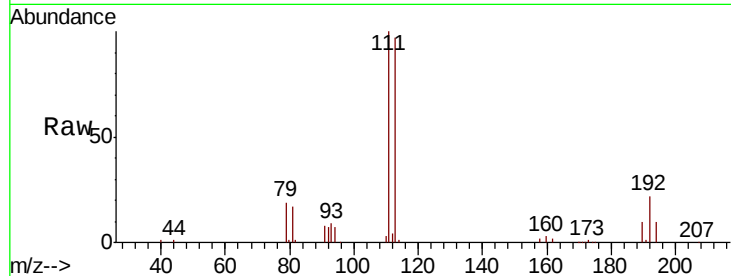




#35
 Dibromofluoromethane
 Concen: 51.921 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW005453.D
 Acq: 18 Sep 2018 02:03

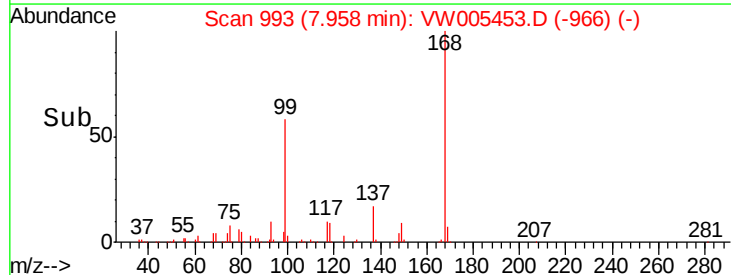
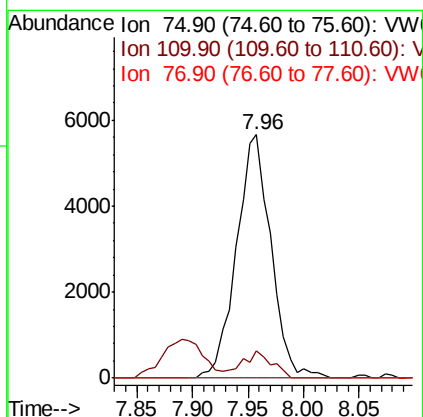
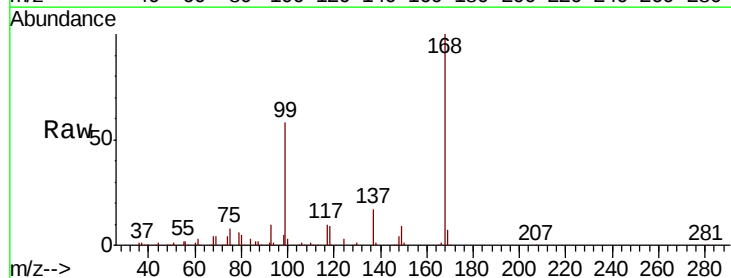
Instrument :
 MSVOA_W
 ClientSampleId :

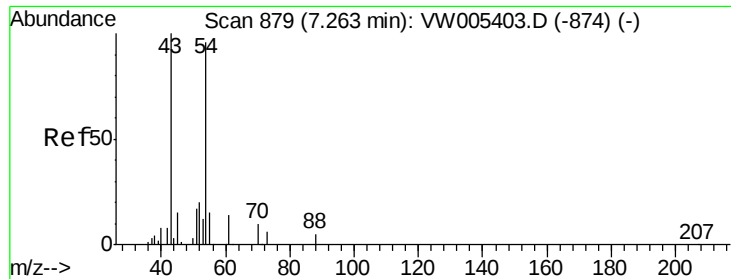
Tgt Ion:113 Resp: 78554
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.3 123.5
 192 21.2 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 4.753 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005453.D
 Acq: 18 Sep 2018 02:03

Tgt Ion: 75 Resp: 12137
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.8 50.4#
 77 0.0 24.2 36.4#

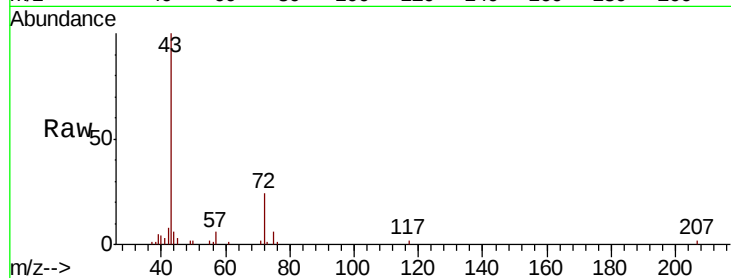




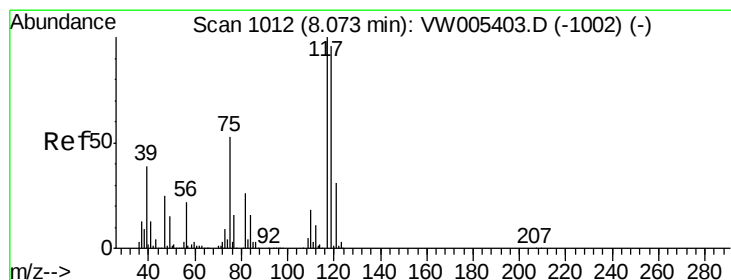
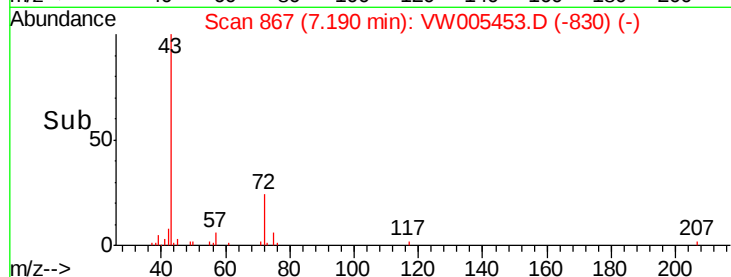
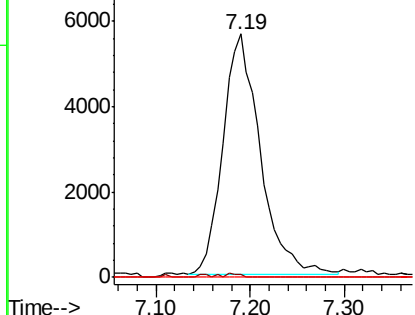
#37
Ethyl Acetate
Concen: 14.832 ug/l
RT: 7.19 min Scan# 867
Delta R.T. -0.07 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 43 Resp: 15403
Ion Ratio Lower Upper
43 100
61 0.5 11.3 16.9#
70 0.0 8.2 12.4#

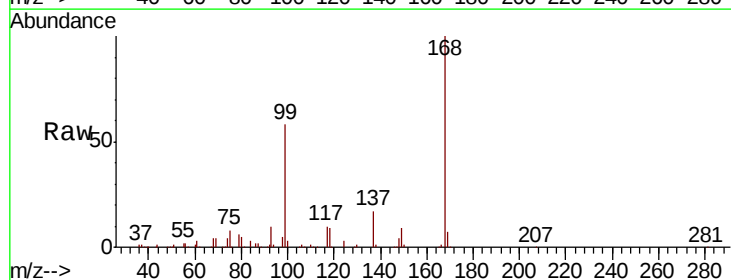


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW

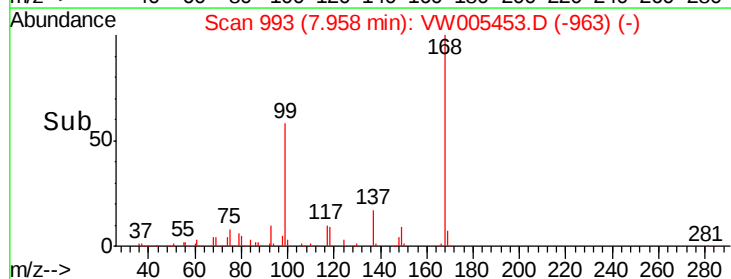
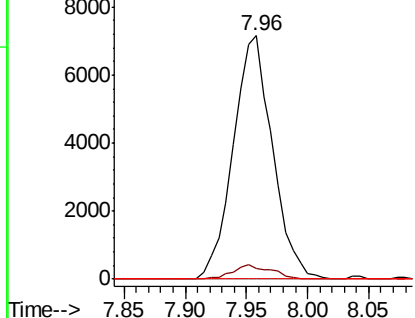


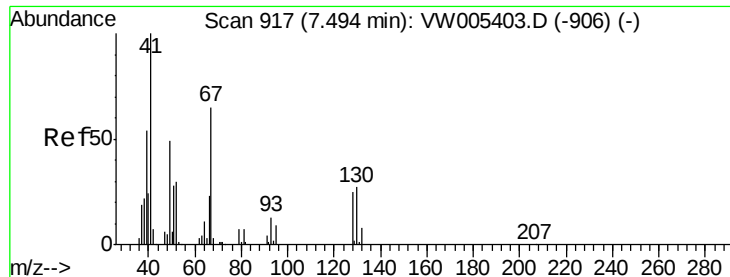
#38
Carbon Tetrachloride
Concen: 5.973 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.12 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

Tgt Ion: 117 Resp: 15895
Ion Ratio Lower Upper
117 100
119 4.6 76.8 115.2#
121 0.0 24.7 37.1#



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

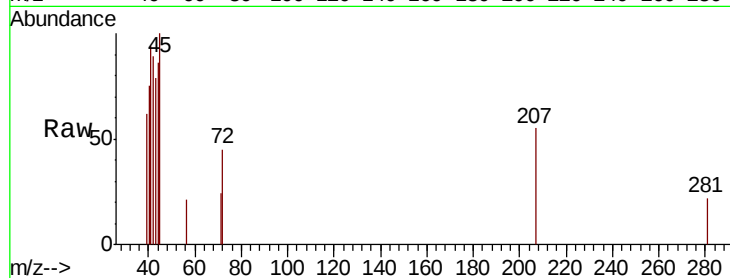




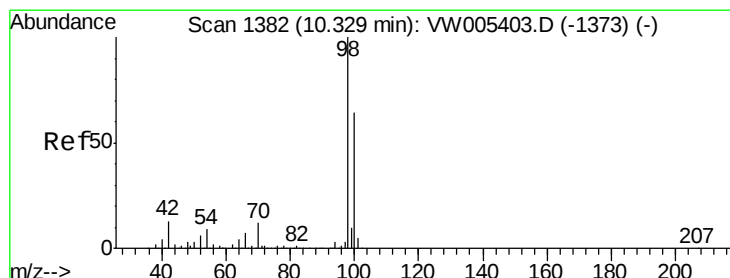
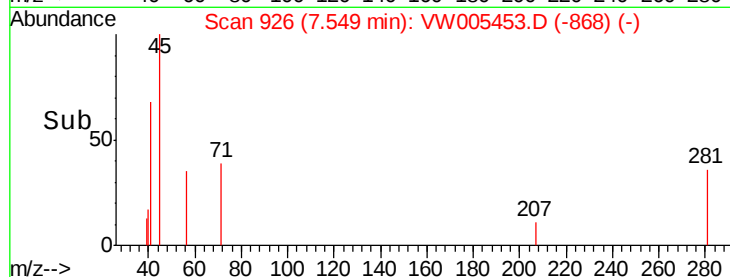
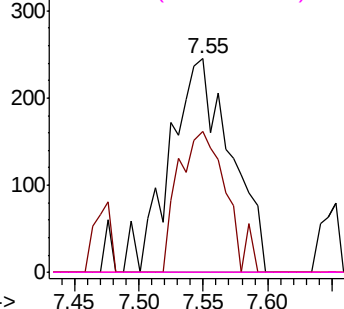
#41
Methacrylonitrile
Concen: 1.286 ug/l
RT: 7.55 min Scan# 926
Delta R.T. 0.05 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:	41	Resp:	806
Ion	Ratio	Lower	Upper
41	100		
39	51.7	44.6	67.0
67	0.0	53.6	80.4#
52	0.0	24.9	37.3#

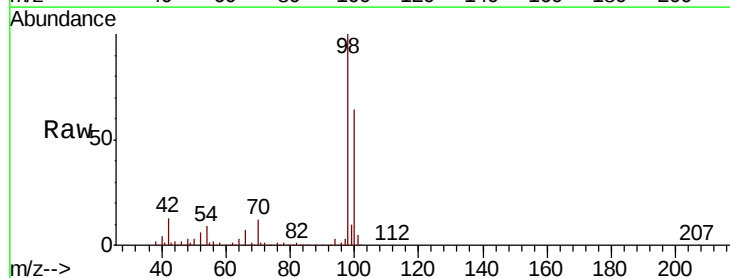


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

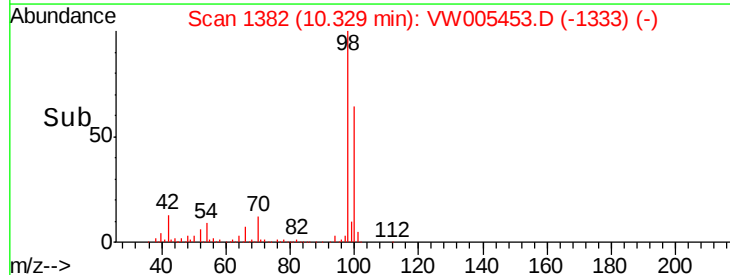
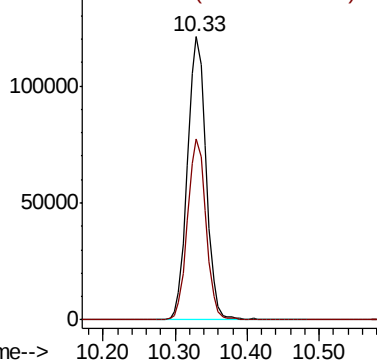


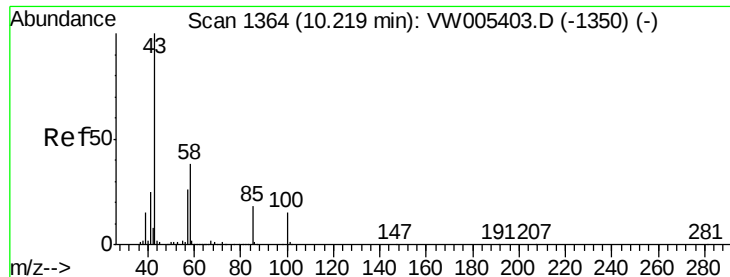
#50
Toluene-d8
Concen: 31.377 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

Tgt Ion:	98	Resp:	217396
Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.4	77.0



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

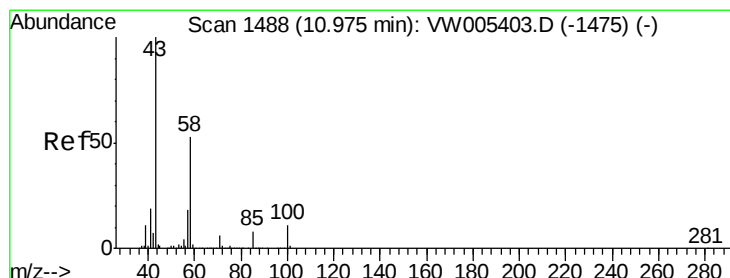
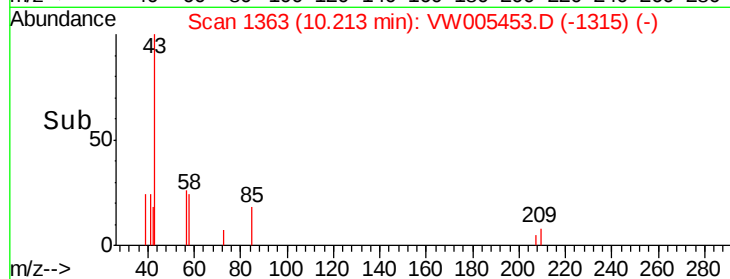
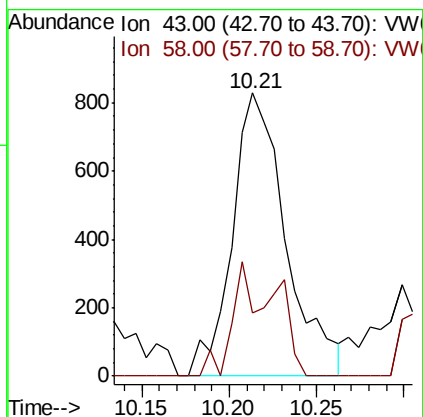
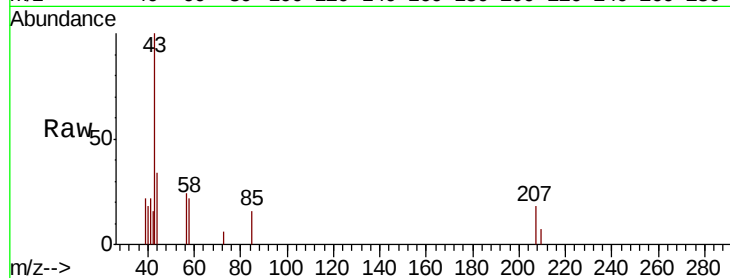




#51
4-Methyl-2-Pentanone
Concen: 1.705 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

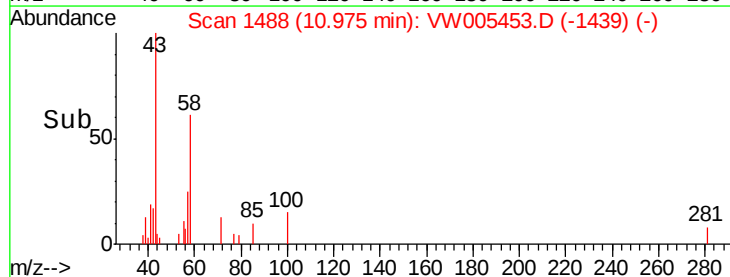
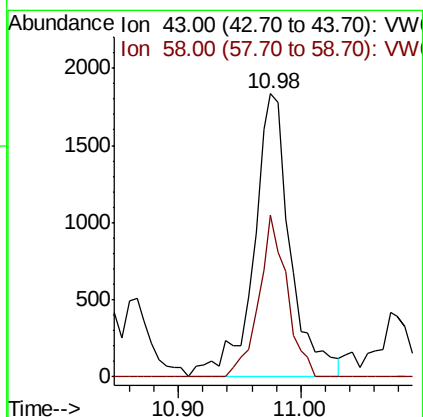
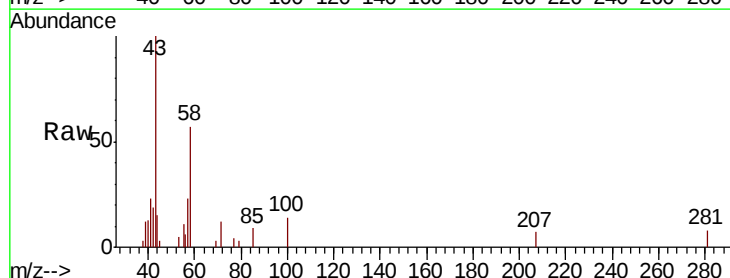
Instrument :
MSVOA_W
ClientSampled :

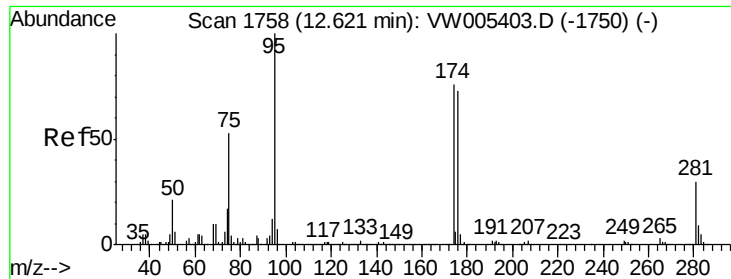
Tgt Ion: 43 Resp: 1779
Ion Ratio Lower Upper
43 100
58 19.6 29.9 44.9#



#59
2-Hexanone
Concen: 5.388 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.00 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

Tgt Ion: 43 Resp: 3829
Ion Ratio Lower Upper
43 100
58 43.8 25.5 76.5

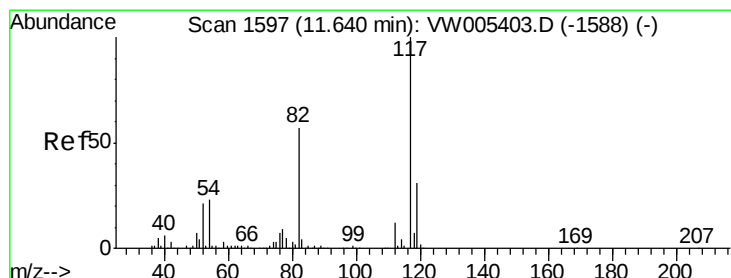
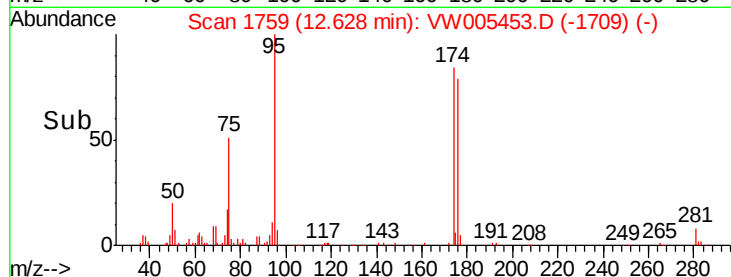
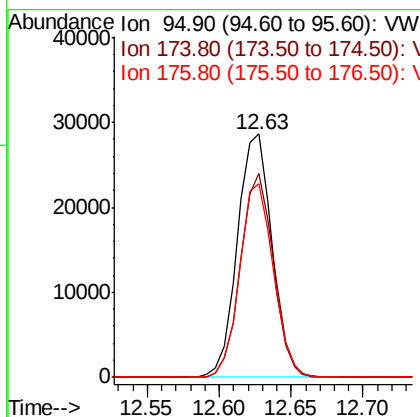
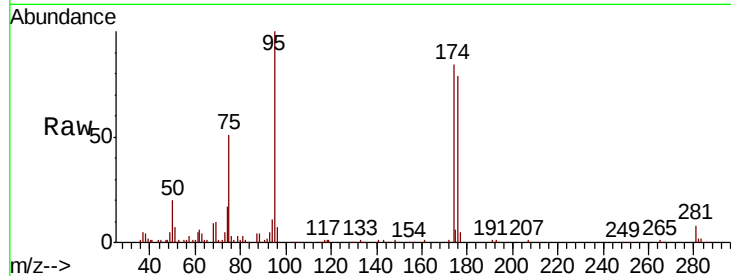




#62
4-Bromofluorobenzene
Concen: 18.696 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. 0.01 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

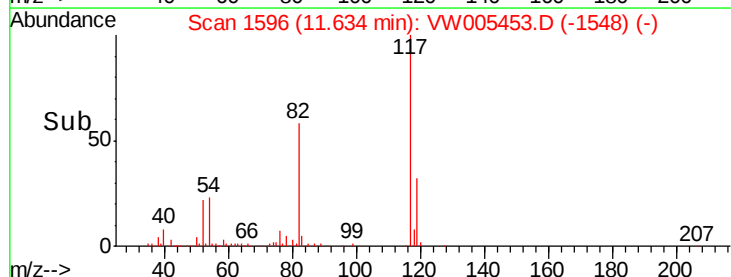
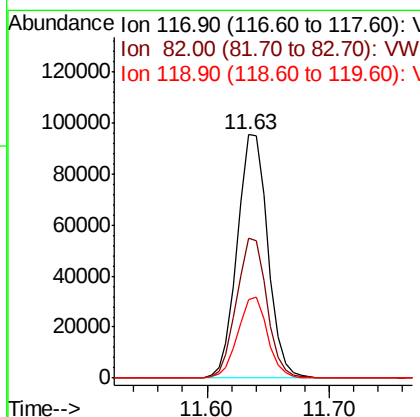
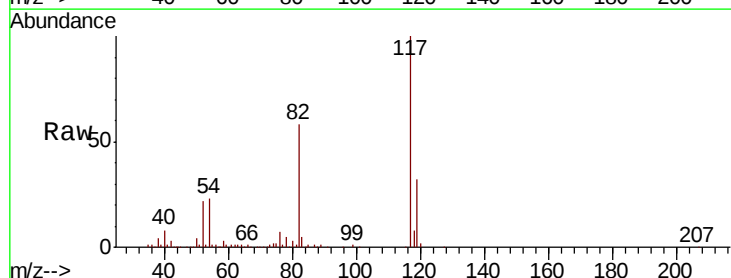
Instrument :
MSVOA_W
ClientSampleId :

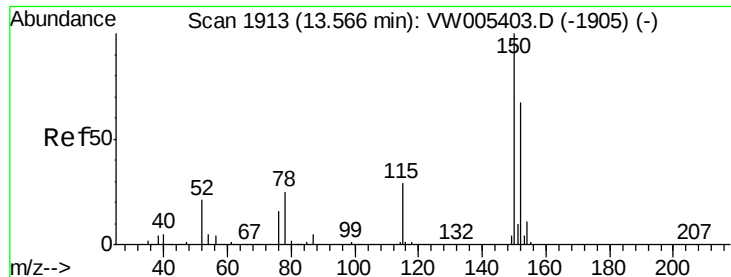
Tgt Ion: 95 Resp: 47496
Ion Ratio Lower Upper
95 100
174 80.7 0.0 161.2
176 77.8 0.0 156.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VW005453.D
Acq: 18 Sep 2018 02:03

Tgt Ion: 117 Resp: 165416
Ion Ratio Lower Upper
117 100
82 57.7 45.9 68.9
119 32.2 24.8 37.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW005453.D

Acq: 18 Sep 2018 02:03

Instrument :

MSVOA_W

ClientSampleId :

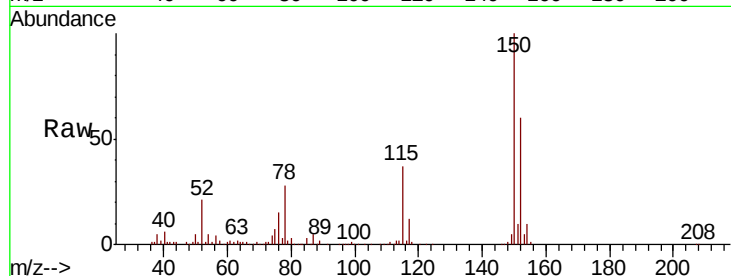
Tgt Ion:152 Resp: 39855

Ion Ratio Lower Upper

152 100

115 58.7 29.5 88.5

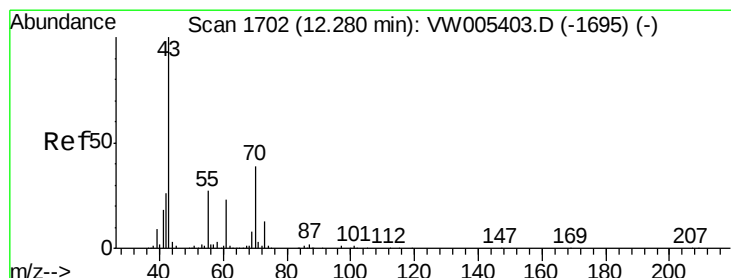
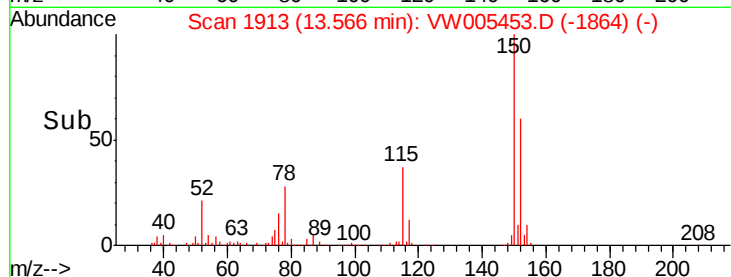
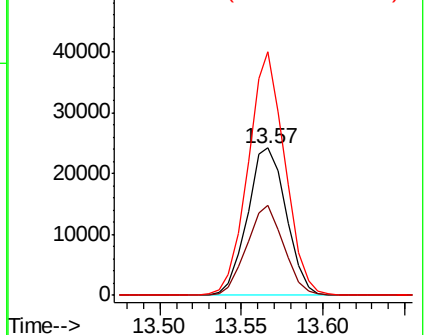
150 156.8 0.0 345.6



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: 7.734 ug/l

RT: 12.24 min Scan# 1696

Delta R.T. -0.04 min

Lab File: VW005453.D

Acq: 18 Sep 2018 02:03

Tgt Ion: 43 Resp: 4557

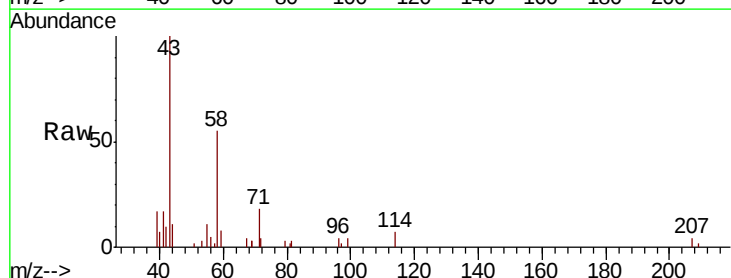
Ion Ratio Lower Upper

43 100

70 0.0 31.9 47.9#

55 12.9 21.4 32.0#

61 0.0 18.3 27.5#

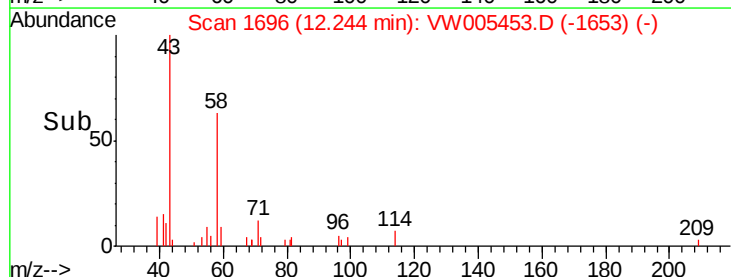
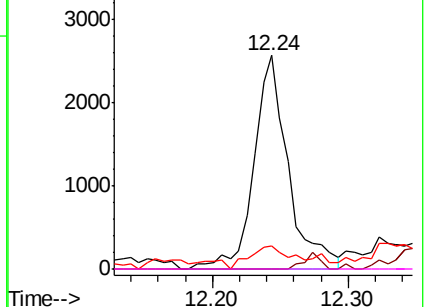


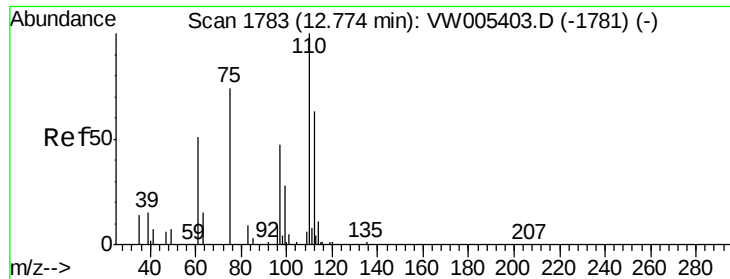
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 74.543 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005453.D

Acq: 18 Sep 2018 02:03

Instrument :

MSVOA_W

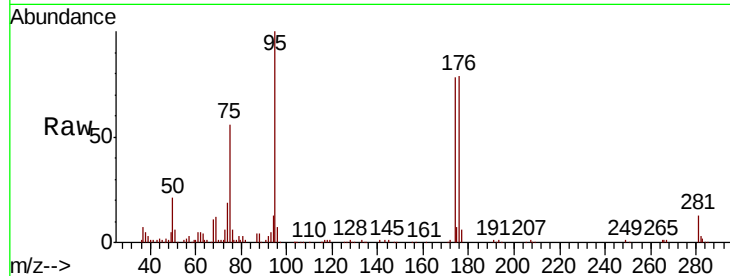
ClientSampleId :

Tgt Ion: 75 Resp: 24435

Ion Ratio Lower Upper

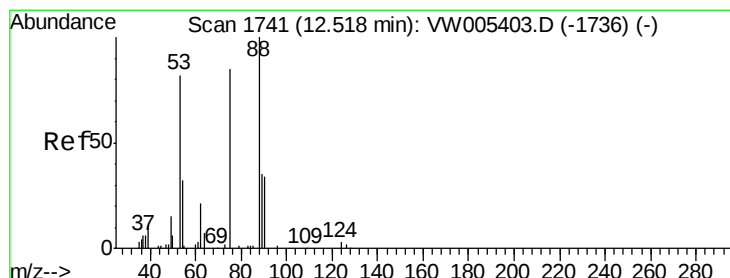
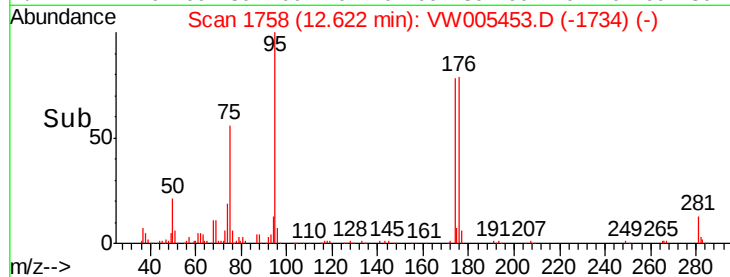
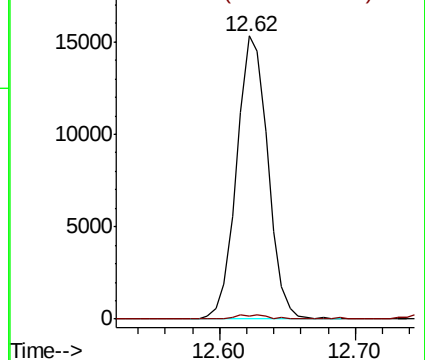
75 100

77 1.6 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: 193.369 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005453.D

Acq: 18 Sep 2018 02:03

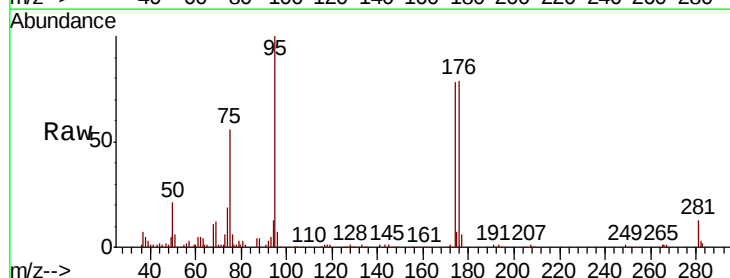
Tgt Ion: 75 Resp: 24435

Ion Ratio Lower Upper

75 100

53 0.3 83.2 124.8#

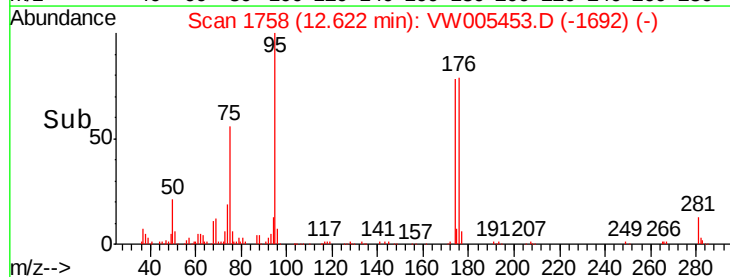
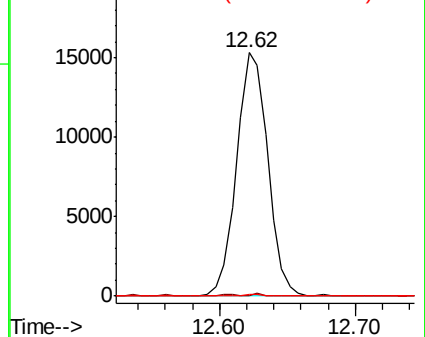
89 0.3 36.6 54.8#

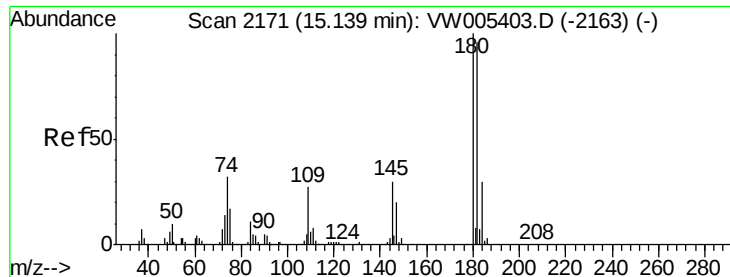


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

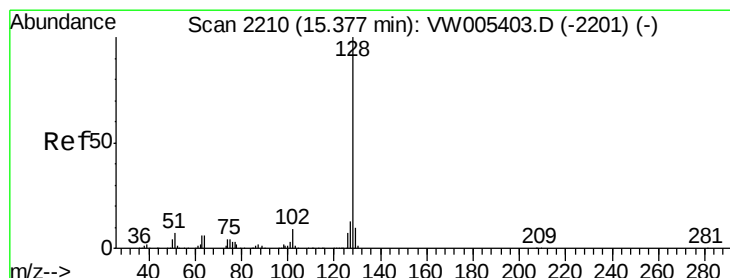
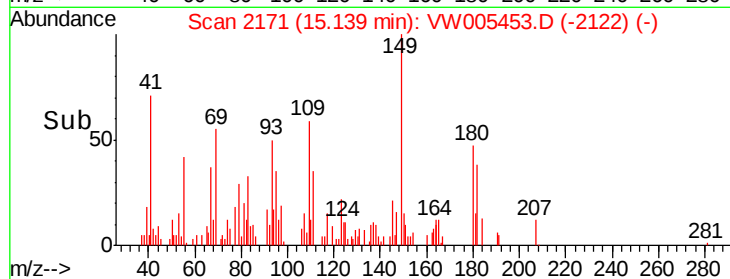
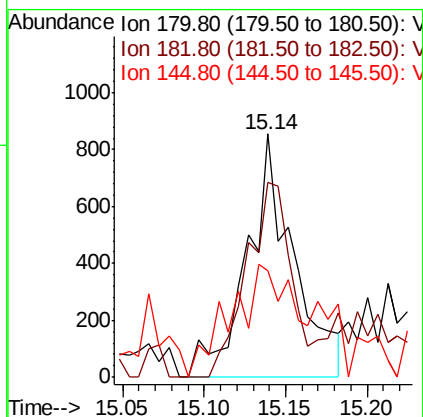
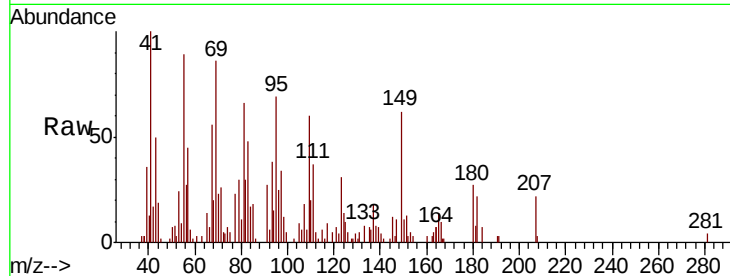




#93
 1,2,4-Trichlorobenzene
 Concen: 2.158 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW005453.D
 Acq: 18 Sep 2018 02:03

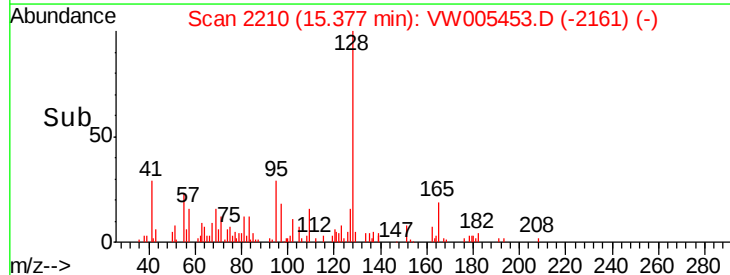
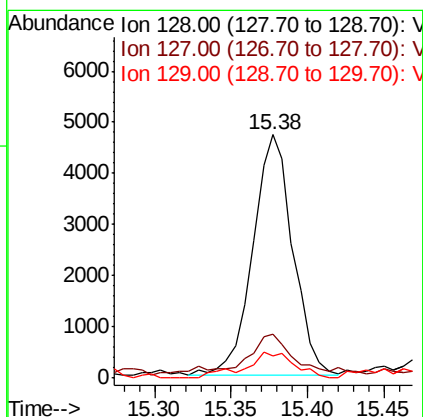
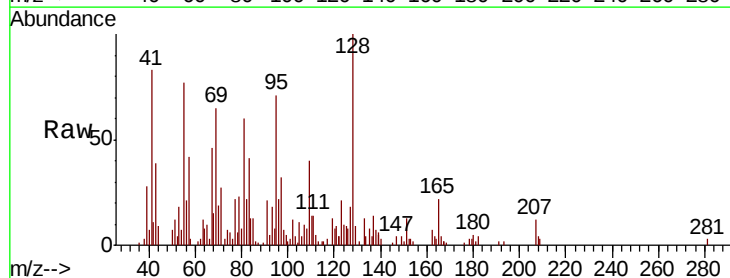
Instrument :
 MSVOA_W
 ClientSampled :

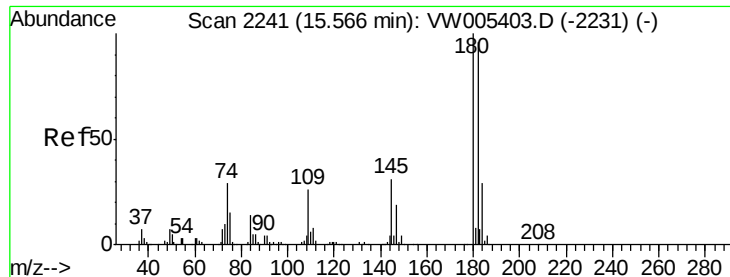
Tgt Ion:180 Resp: 1687
 Ion Ratio Lower Upper
 180 100
 182 79.2 47.3 141.9
 145 61.9 14.8 44.3#



#95
 Naphthalene
 Concen: 6.530 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.00 min
 Lab File: VW005453.D
 Acq: 18 Sep 2018 02:03

Tgt Ion:128 Resp: 8506
 Ion Ratio Lower Upper
 128 100
 127 16.4 11.0 16.4
 129 13.4 8.7 13.1#

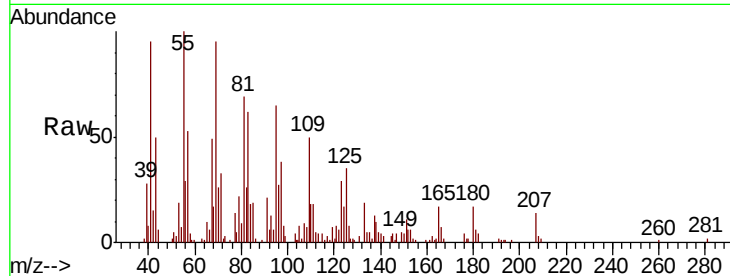




#96
 1,2,3-Trichlorobenzene
 Concen: 2.772 ug/l
 RT: 15.58 min Scan# 2244
 Delta R.T. 0.02 min
 Lab File: VW005453.D
 Acq: 18 Sep 2018 02:03

Instrument :
 MSVOA_W
 ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	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

