

Data File : VW008986.D
Acq On : 05 Mar 2019 03:18
Operator : SY/VA
Sample : K1712-19
Misc : 6.02G/5ML/MSVOA_W/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
Z-2-4

Quant Time: Mar 05 06:35:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	303269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	473782	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	419387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	196683	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	173527	61.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.02%	
35) Dibromofluoromethane	7.88	113	146547	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	
50) Toluene-d8	10.32	98	563424	51.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.62%	
62) 4-Bromofluorobenzene	12.62	95	189616	44.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.20%	

Target Compounds

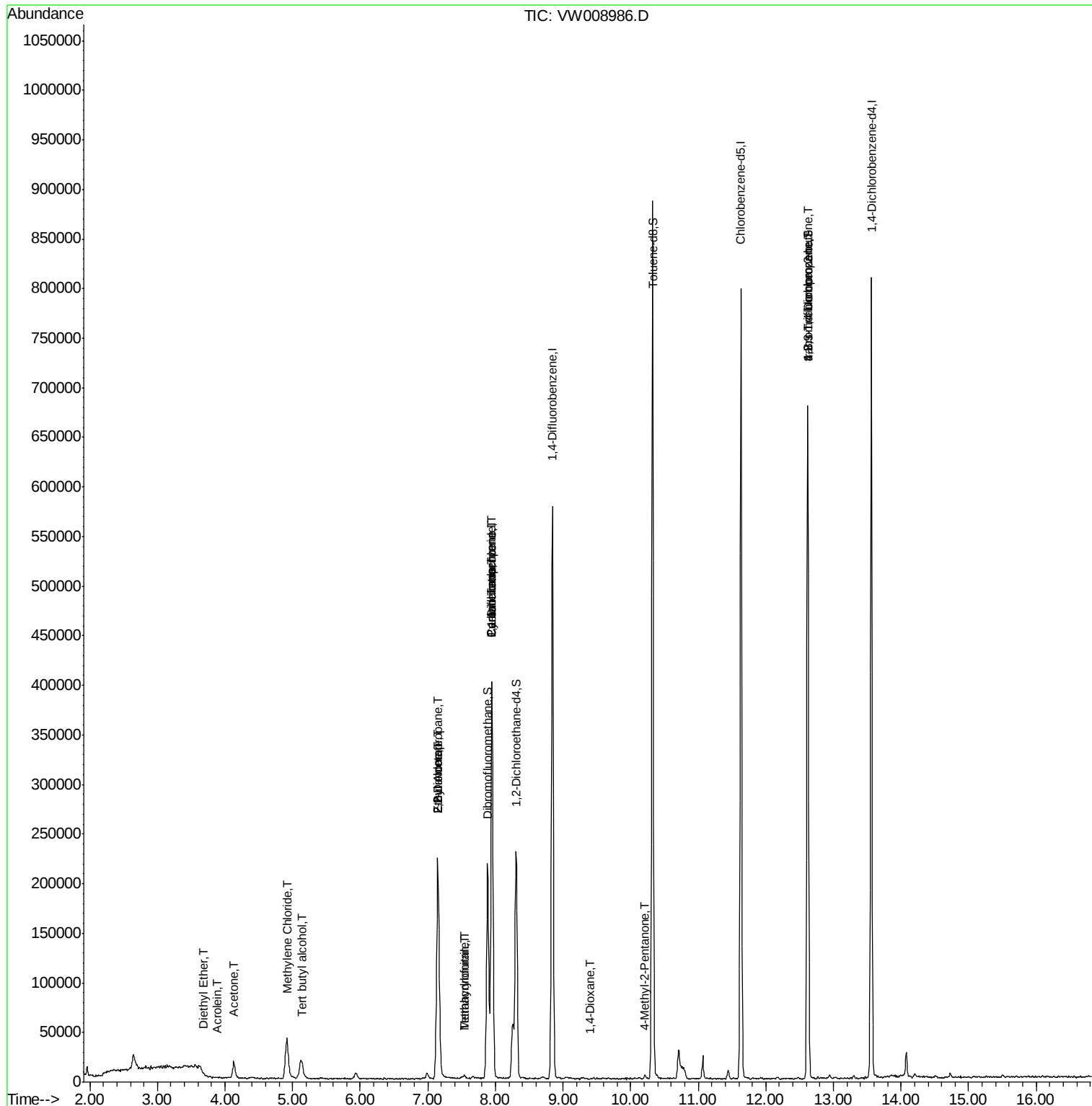
						Qvalue
8) Diethyl Ether	3.69	74	2028	1.294	ug/l	83
11) Tert butyl alcohol	5.14	59	16915	66.798	ug/l #	74
13) Acrolein	3.89	56	70	20.021	ug/l #	14
16) Acetone	4.14	43	28901	43.835	ug/l	99
20) Methylene Chloride	4.91	84	30804	4.873	ug/l	88
25) 2-Butanone	7.15	43	13721	14.886	ug/l #	78
26) 2,2-Dichloropropane	7.15	77	15654	3.255	ug/l #	54
29) Tetrahydrofuran	7.54	42	2161	3.679	ug/l #	92
31) Cyclohexane	7.95	56	7520	1.402	ug/l #	38
36) 1,1-Dichloropropene	7.95	75	21940	4.757	ug/l #	53
37) Ethyl Acetate	7.15	43	13721	6.398	ug/l #	5
38) Carbon Tetrachloride	7.95	117	30547	6.281	ug/l #	17
41) Methacrylonitrile	7.53	41	1781	1.413	ug/l #	53
49) 1,4-Dioxane	9.39	88	63	2.273	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	2860	1.316	ug/l #	87
76) 1,2,3-Trichloropropane	12.62	75	103270	63.595	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	103270	154.603	ug/l #	6

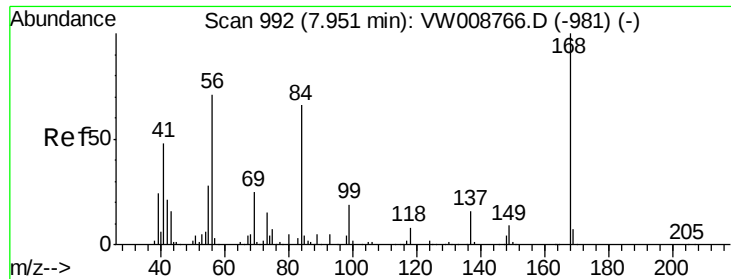
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008986.D

Acq: 05 Mar 2019 03:18

Instrument :

MSVOA_W

ClientSampleId :

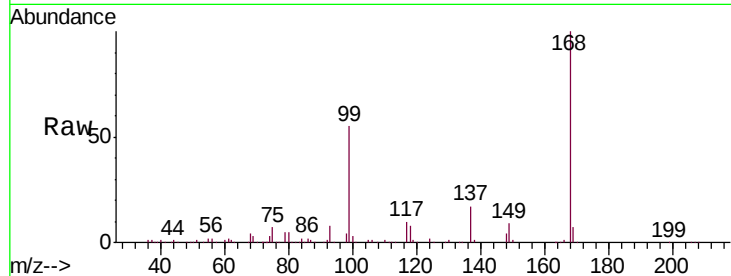
Z-2-4

Tgt Ion:168 Resp: 303269

Ion Ratio Lower Upper

168 100

99 54.7 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

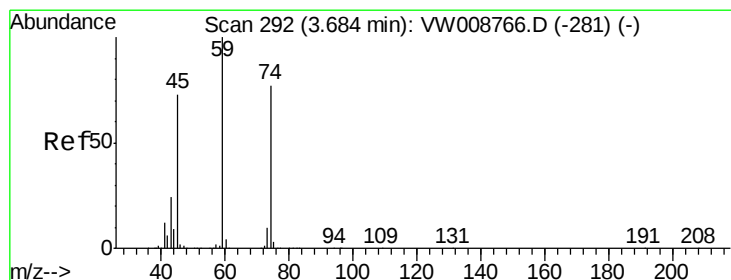
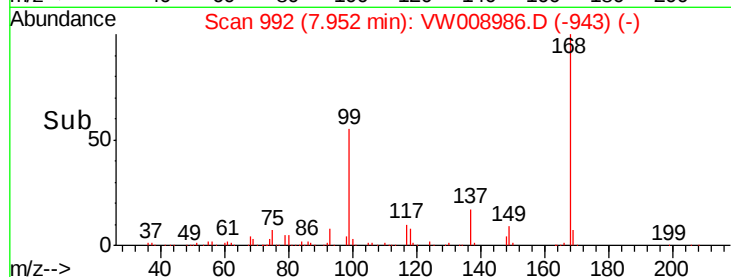
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 1.294 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW008986.D

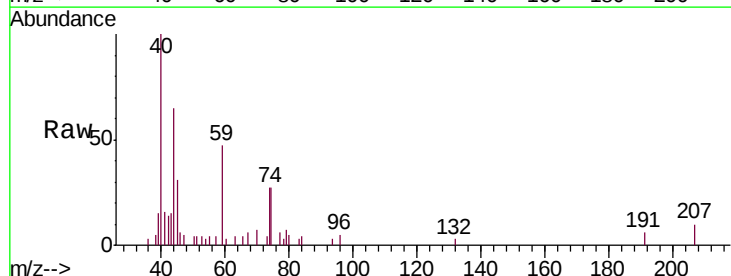
Acq: 05 Mar 2019 03:18

Tgt Ion: 74 Resp: 2028

Ion Ratio Lower Upper

74 100

45 83.3 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.69

1000

800

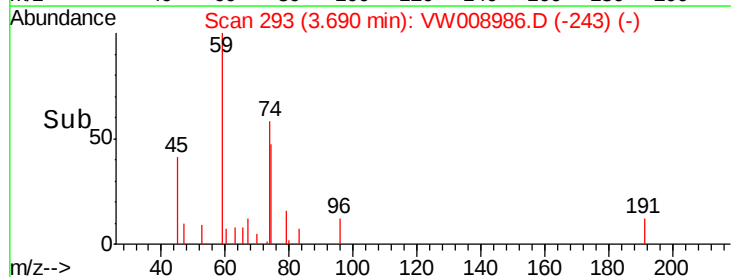
600

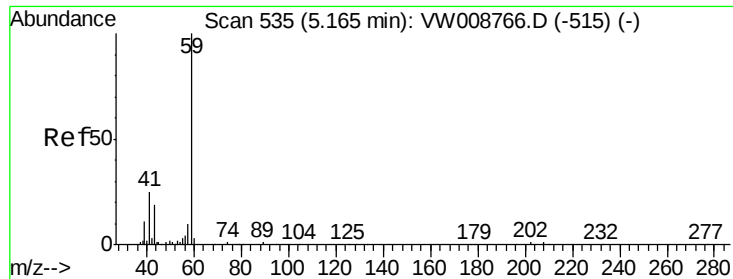
400

200

0

Time--> 3.60 3.65 3.70 3.75

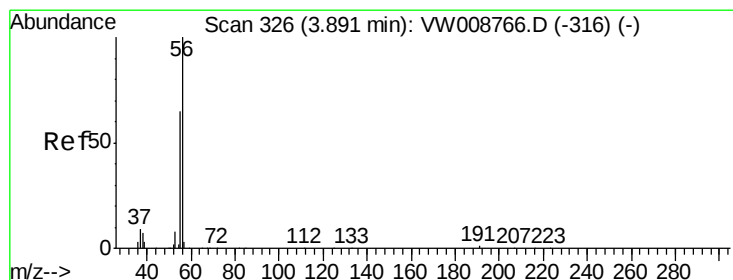
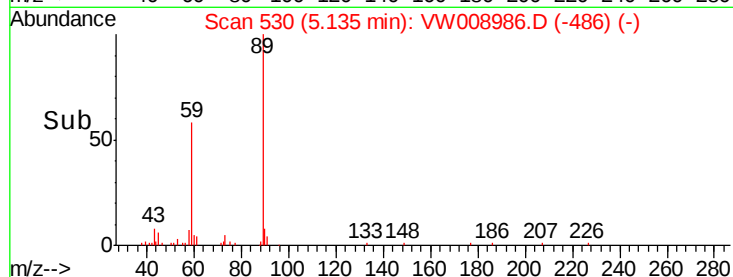
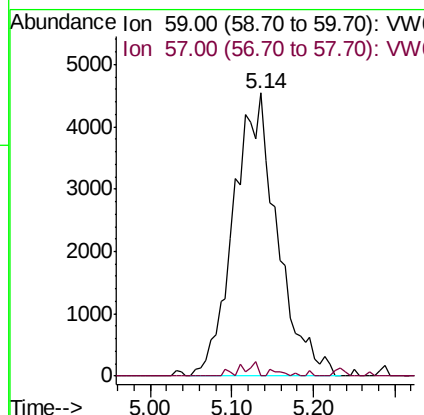
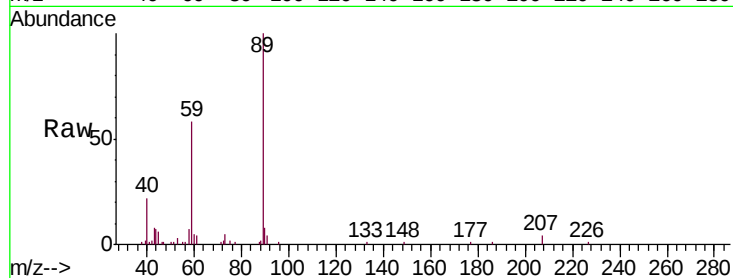




#11
Tert butyl alcohol
Concen: 66.798 ug/l
RT: 5.14 min Scan# 530
Delta R.T. -0.03 min
Lab File: VW008986.D
Acq: 05 Mar 2019 03:18

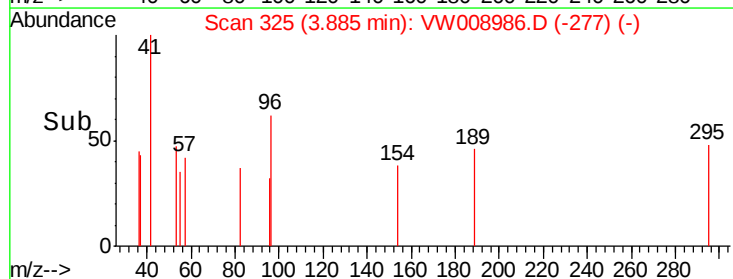
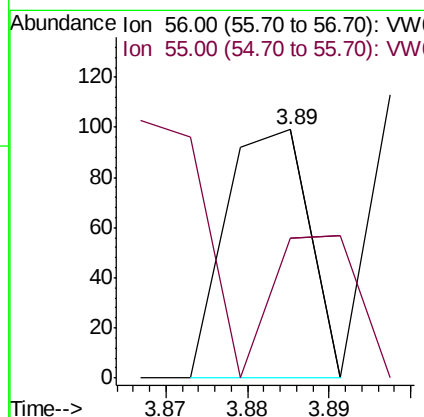
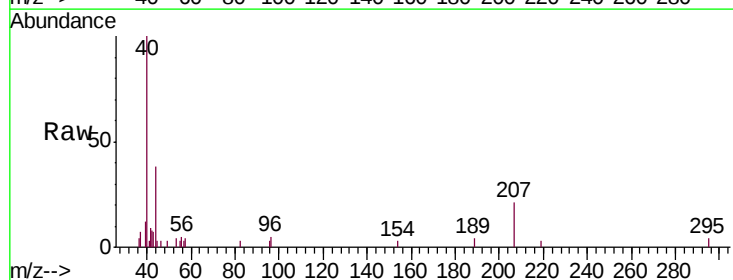
Instrument :
MSVOA_W
ClientSampled :
Z-2-4

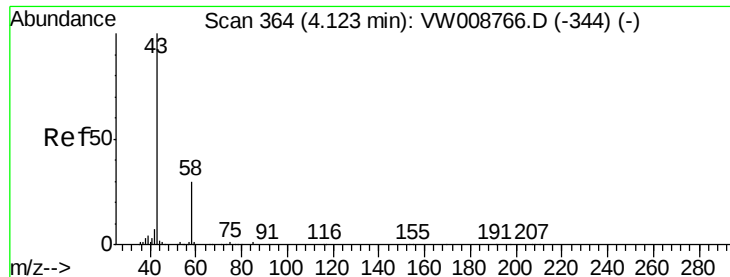
Tgt Ion: 59 Resp: 16915
Ion Ratio Lower Upper
59 100
57 1.7 9.3 13.9#



#13
Acrolein
Concen: 20.021 ug/l
RT: 3.89 min Scan# 325
Delta R.T. -0.01 min
Lab File: VW008986.D
Acq: 05 Mar 2019 03:18

Tgt Ion: 56 Resp: 70
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#16

Acetone

Concen: 43.835 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW008986.D

Acq: 05 Mar 2019 03:18

Instrument :

MSVOA_W

ClientSampleId :

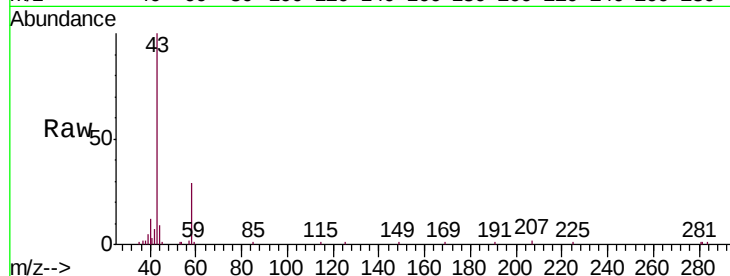
Z-2-4

Tgt Ion: 43 Resp: 28901

Ion Ratio Lower Upper

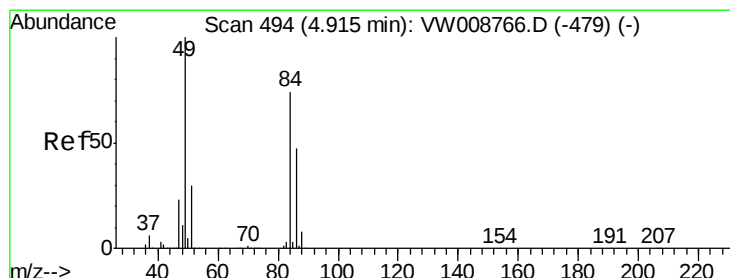
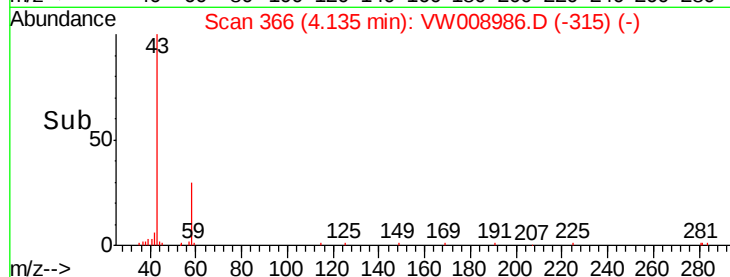
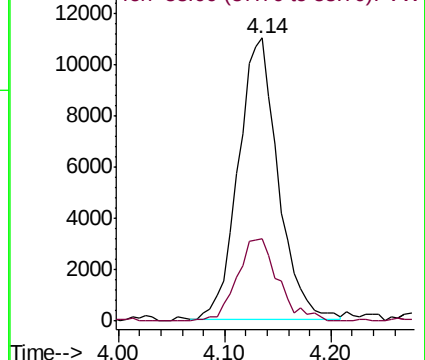
43 100

58 29.3 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 4.873 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW008986.D

Acq: 05 Mar 2019 03:18

Tgt Ion: 84 Resp: 30804

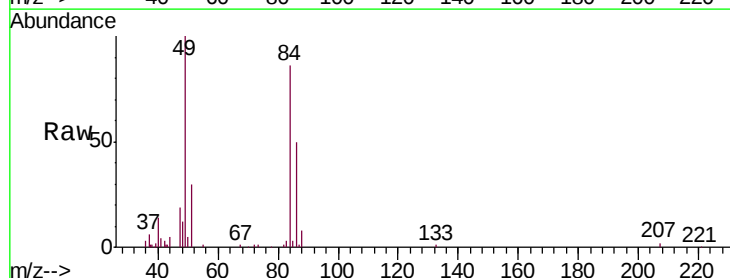
Ion Ratio Lower Upper

84 100

49 116.1 108.2 162.2

51 35.3 32.7 49.1

86 58.2 50.3 75.5

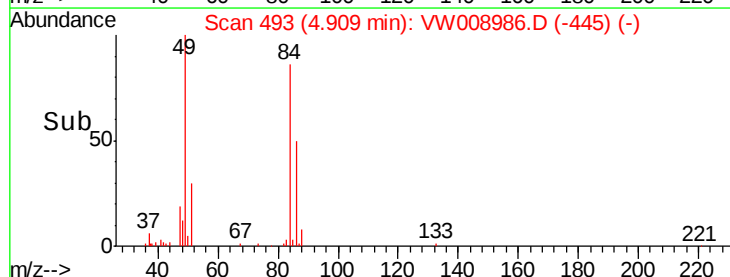
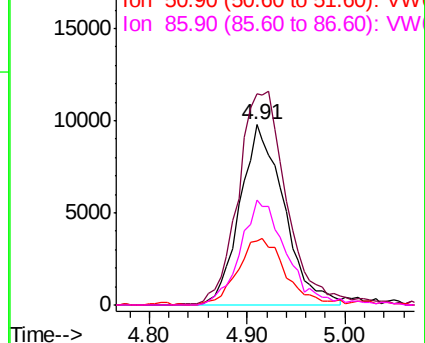


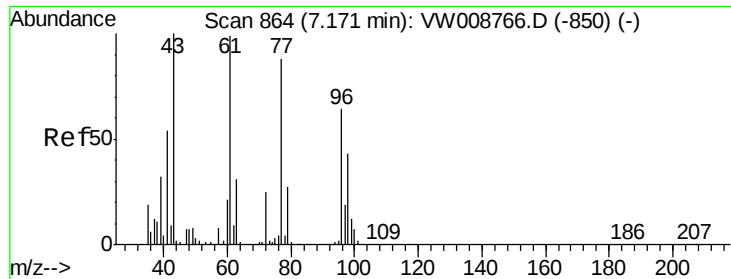
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 14.886 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW008986.D

Acq: 05 Mar 2019 03:18

Instrument :

MSVOA_W

ClientSampled :

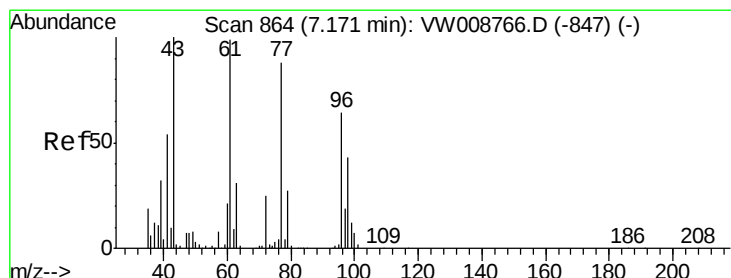
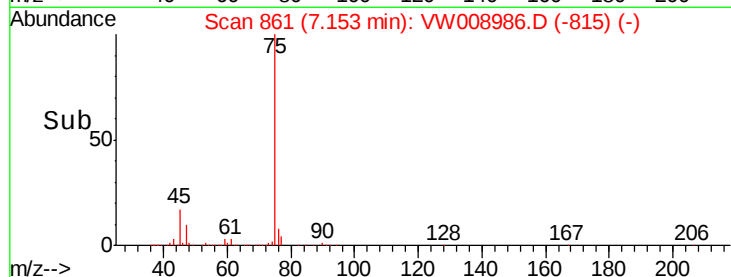
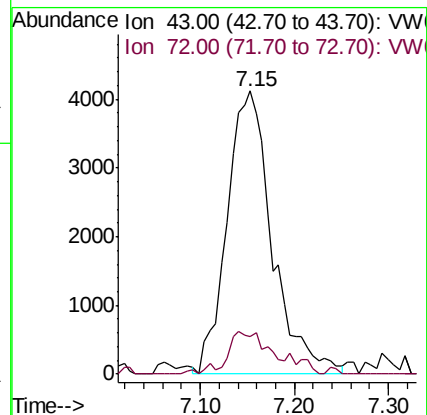
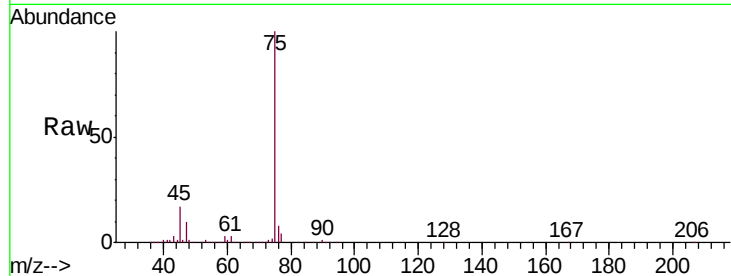
Z-2-4

Tgt Ion: 43 Resp: 13721

Ion Ratio Lower Upper

43 100

72 13.7 19.7 29.5#



#26

2,2-Dichloropropane

Concen: 3.255 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008986.D

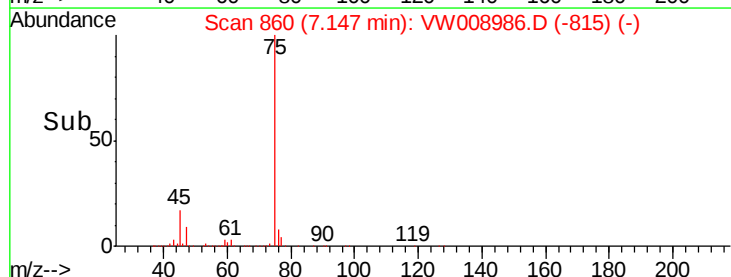
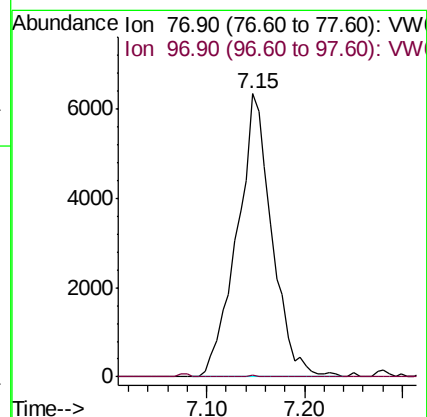
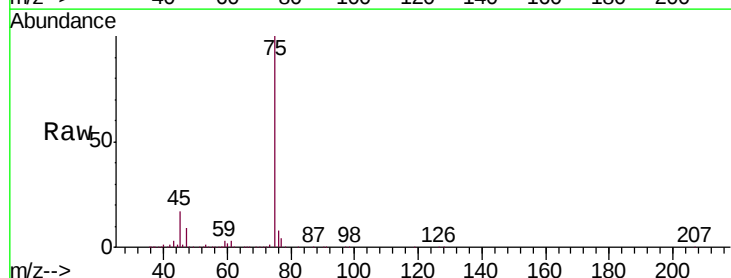
Acq: 05 Mar 2019 03:18

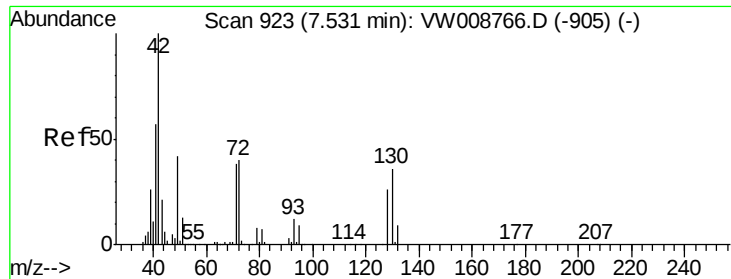
Tgt Ion: 77 Resp: 15654

Ion Ratio Lower Upper

77 100

97 0.1 11.0 33.0#

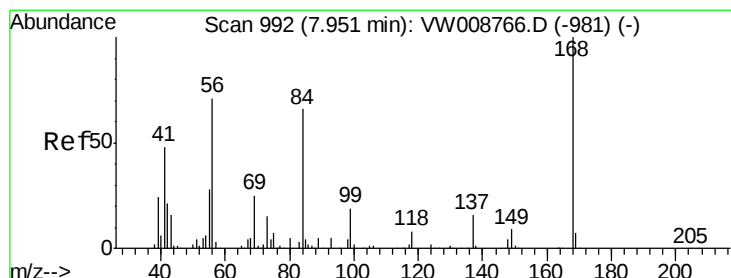
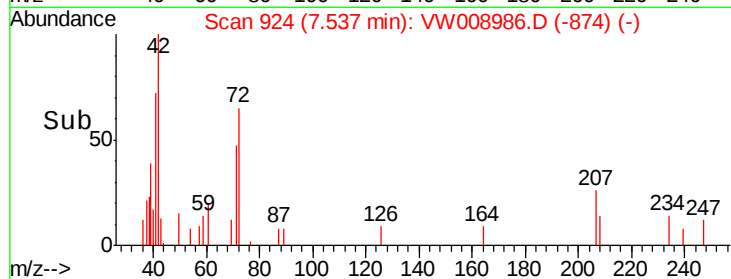
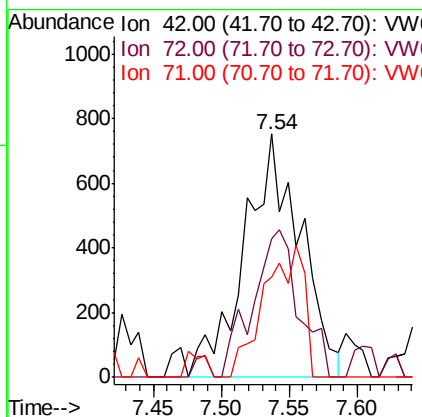
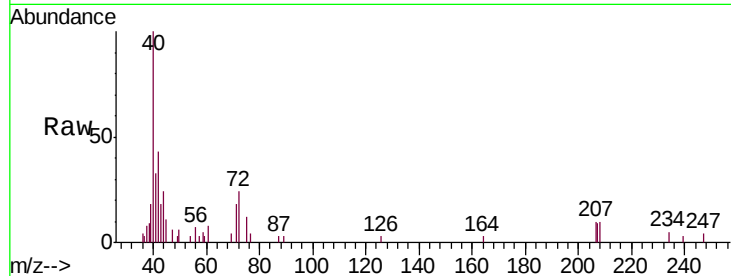




#29
Tetrahydrofuran
Concen: 3.679 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW008986.D
Acq: 05 Mar 2019 03:18

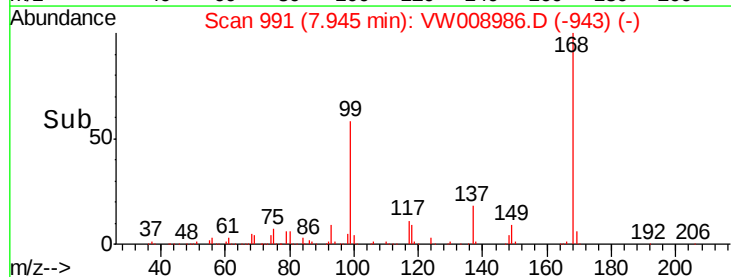
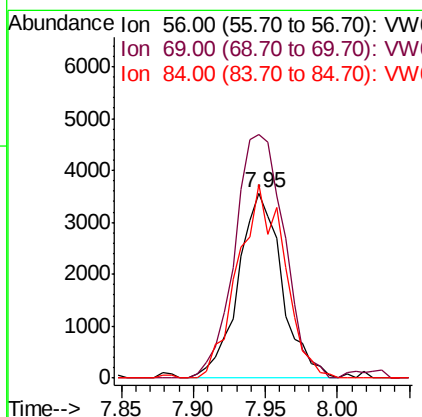
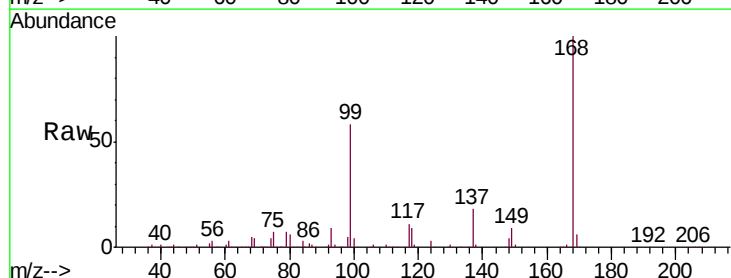
Instrument :
MSVOA_W
ClientSampled :
Z-2-4

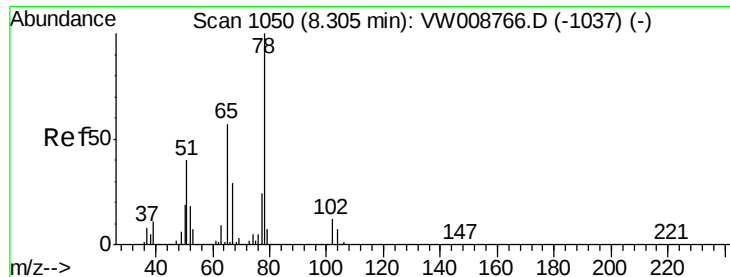
Tgt Ion: 42 Resp: 2161
Ion Ratio Lower Upper
42 100
72 50.3 32.7 49.1#
71 38.7 31.3 46.9



#31
Cyclohexane
Concen: 1.402 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008986.D
Acq: 05 Mar 2019 03:18

Tgt Ion: 56 Resp: 7520
Ion Ratio Lower Upper
56 100
69 131.4 28.2 42.4#
84 113.8 74.1 111.1#

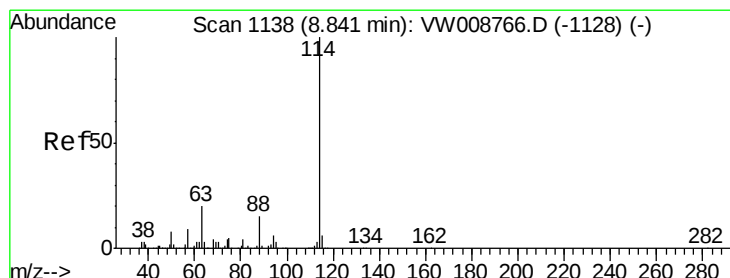
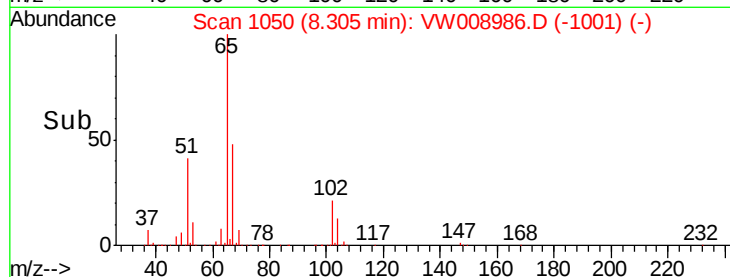
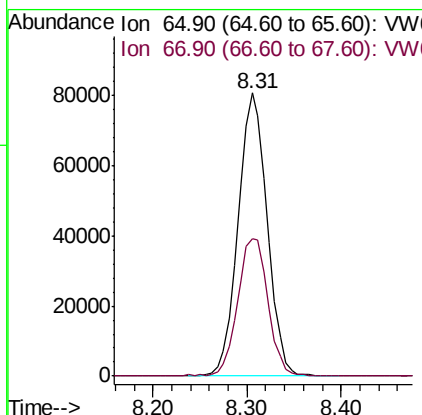
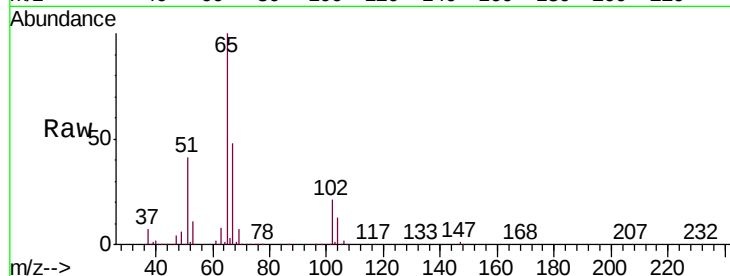




#33
 1,2-Dichloroethane-d4
 Concen: 61.007 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008986.D
 Acq: 05 Mar 2019 03:18

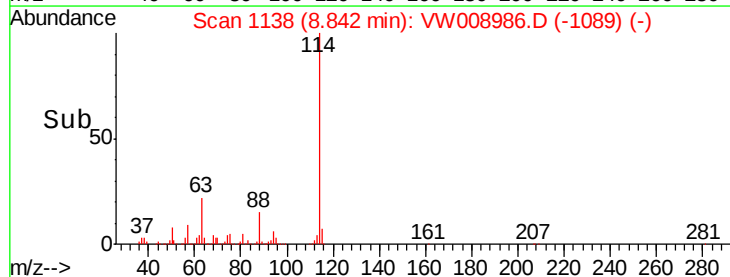
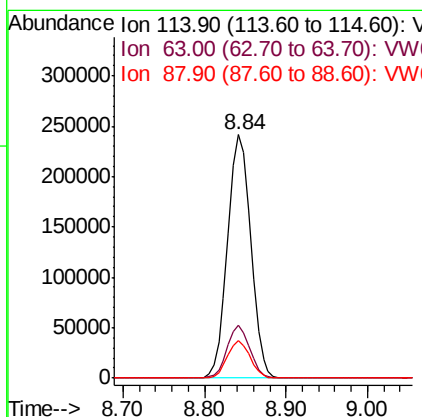
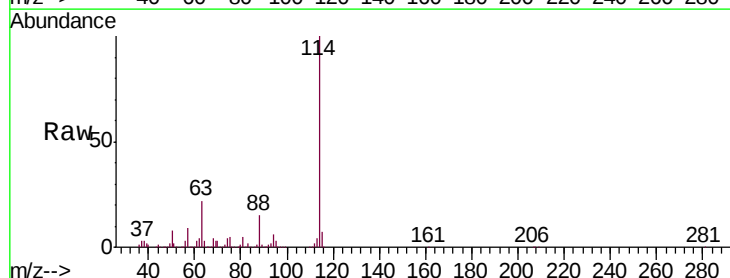
Instrument :
 MSVOA_W
 ClientSampled :
 Z-2-4

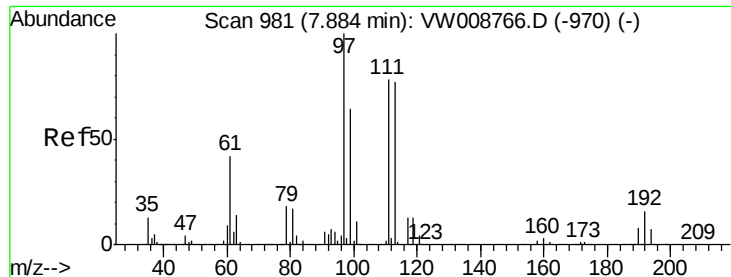
Tgt Ion: 65 Resp: 173527
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008986.D
 Acq: 05 Mar 2019 03:18

Tgt Ion: 114 Resp: 473782
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 40.8
 88 15.2 0.0 30.4

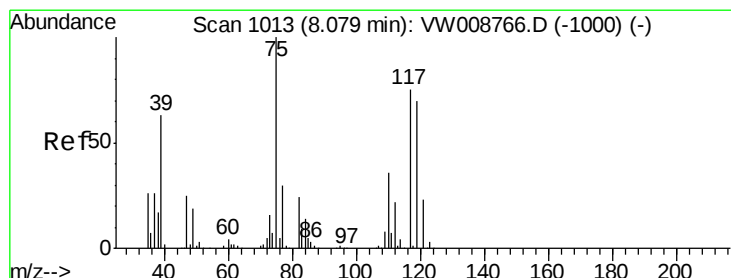
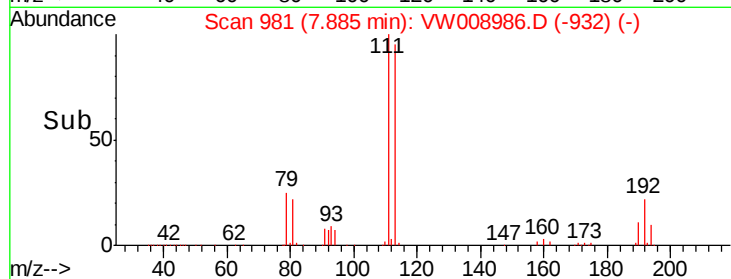
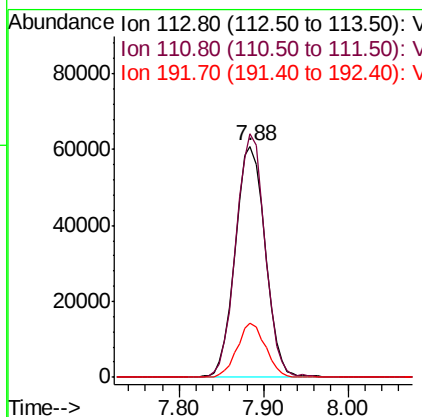
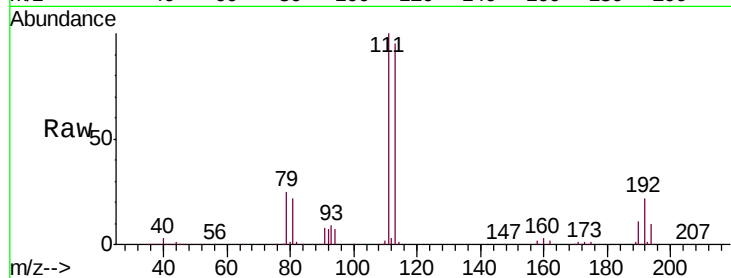




#35
 Dibromofluoromethane
 Concen: 51.517 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008986.D
 Acq: 05 Mar 2019 03:18

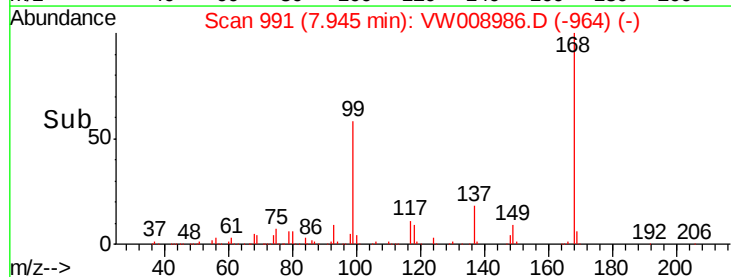
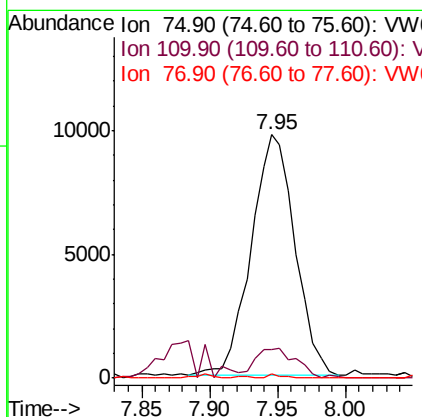
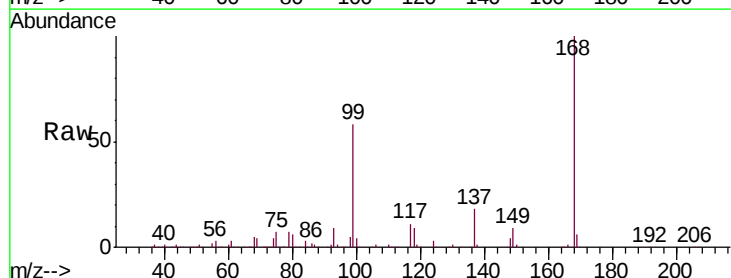
Instrument :
 MSVOA_W
 ClientSampleId :
 Z-2-4

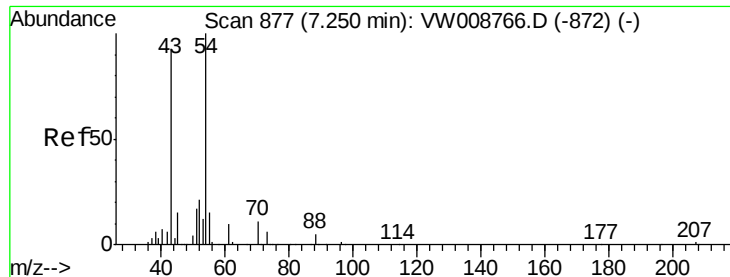
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.9	122.9
192	22.0	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.757 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008986.D
 Acq: 05 Mar 2019 03:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	17.5	52.6#
77	0.6	24.5	36.7#

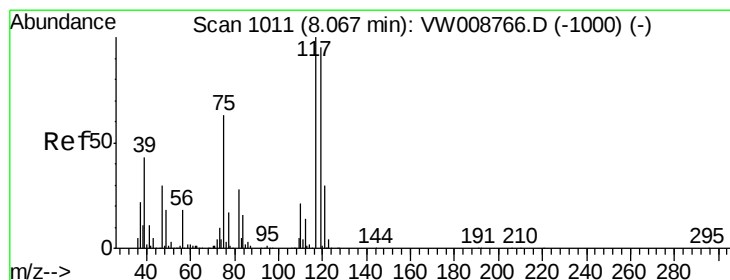
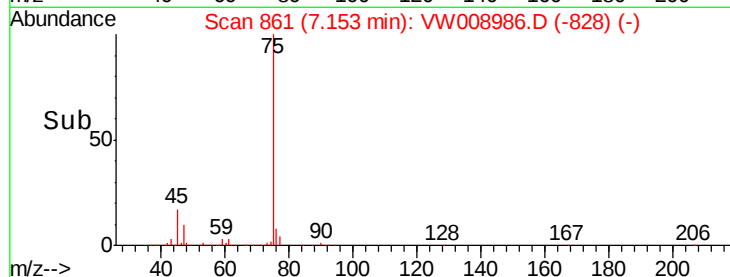
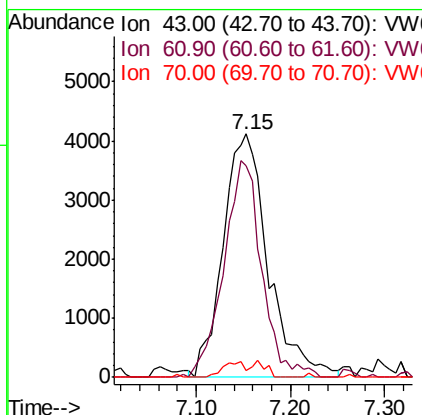
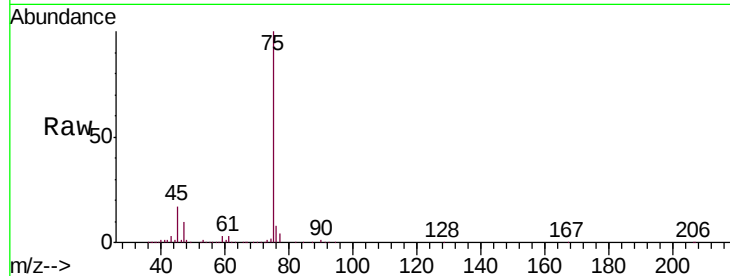




#37
 Ethyl Acetate
 Concen: 6.398 ug/l
 RT: 7.15 min Scan# 861
 Delta R.T. -0.10 min
 Lab File: VW008986.D
 Acq: 05 Mar 2019 03:18

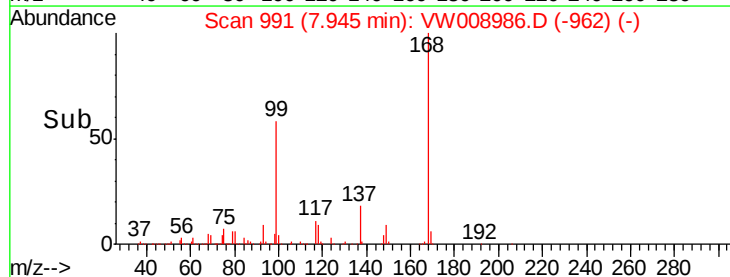
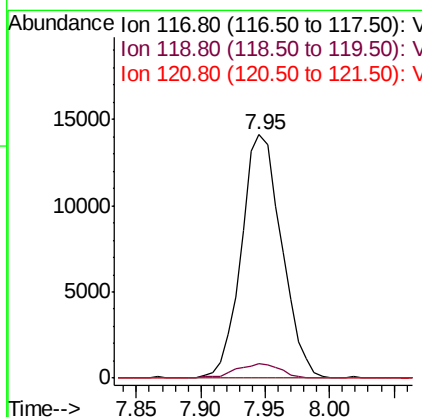
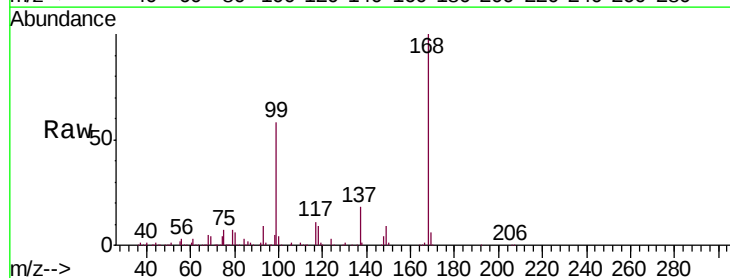
Instrument :
 MSVOA_W
 ClientSampled :
 Z-2-4

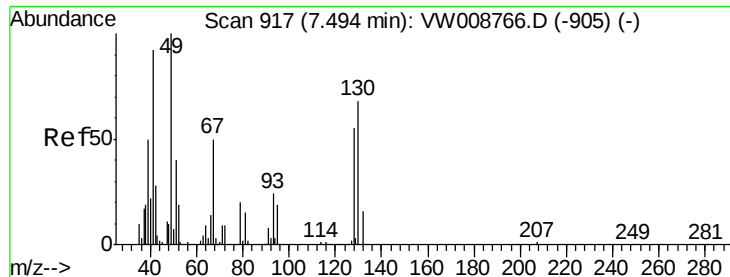
Tgt Ion: 43 Resp: 13721
 Ion Ratio Lower Upper
 43 100
 61 74.7 9.8 14.8#
 70 3.1 8.4 12.6#



#38
 Carbon Tetrachloride
 Concen: 6.281 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW008986.D
 Acq: 05 Mar 2019 03:18

Tgt Ion: 117 Resp: 30547
 Ion Ratio Lower Upper
 117 100
 119 6.1 76.1 114.1#
 121 0.0 24.0 36.0#

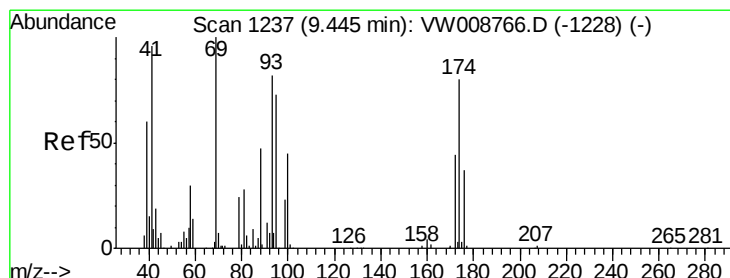
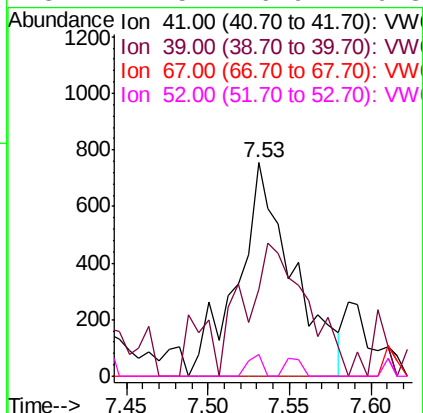
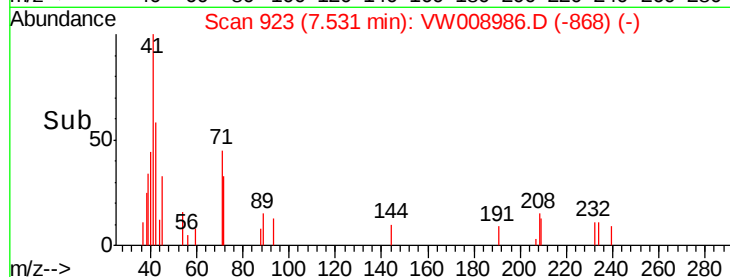
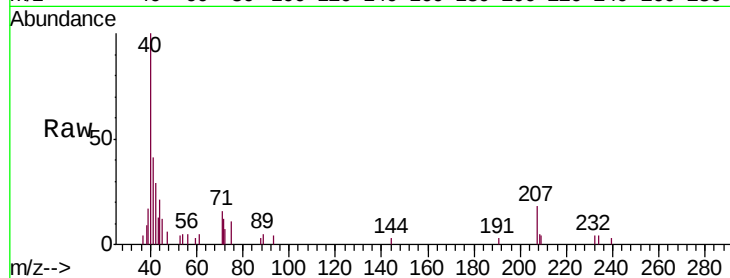




#41
Methacrylonitrile
Concen: 1.413 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.04 min
Lab File: VW008986.D
Acq: 05 Mar 2019 03:18

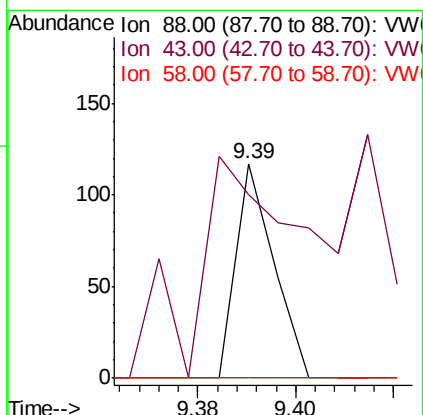
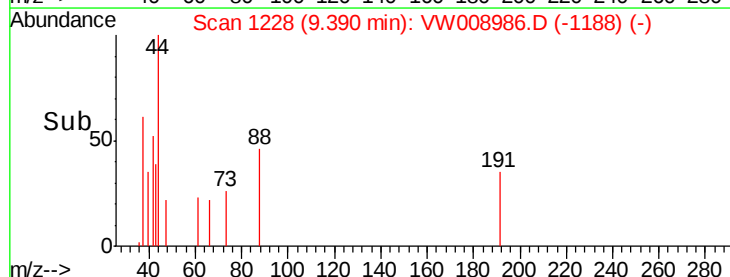
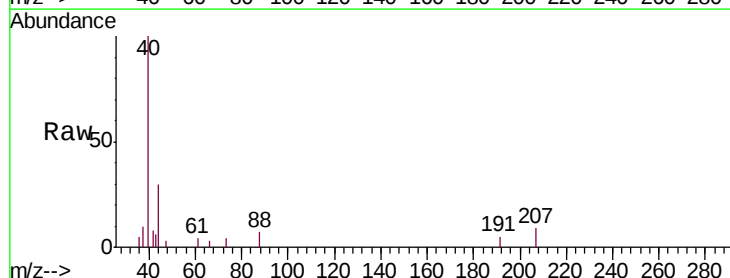
Instrument :
MSVOA_W
ClientSampleId :
Z-2-4

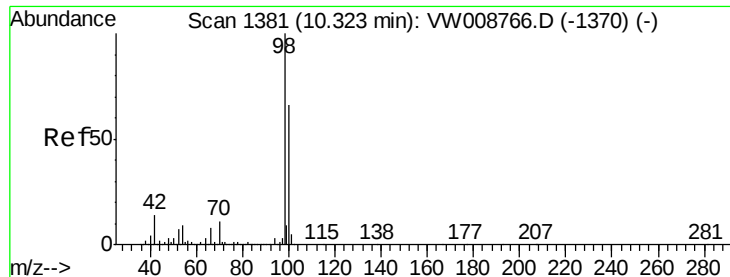
Tgt Ion:	41	Resp:	1781
Ion	Ratio	Lower	Upper
41	100		
39	69.2	52.5	78.7
67	0.0	55.0	82.6#
52	2.5	26.9	40.3#



#49
1,4-Dioxane
Concen: 2.273 ug/l
RT: 9.39 min Scan# 1228
Delta R.T. -0.05 min
Lab File: VW008986.D
Acq: 05 Mar 2019 03:18

Tgt Ion:	88	Resp:	63
Ion	Ratio	Lower	Upper
88	100		
43	303.2	29.0	43.4#
58	0.0	52.0	78.0#





#50

Toluene-d8

Concen: 51.308 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008986.D

Acq: 05 Mar 2019 03:18

Instrument :

MSVOA_W

ClientSampled :

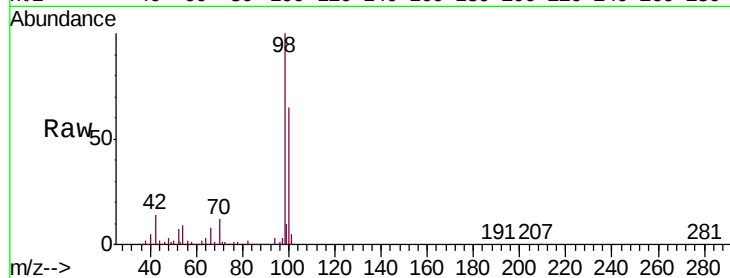
Z-2-4

Tgt Ion: 98 Resp: 563424

Ion Ratio Lower Upper

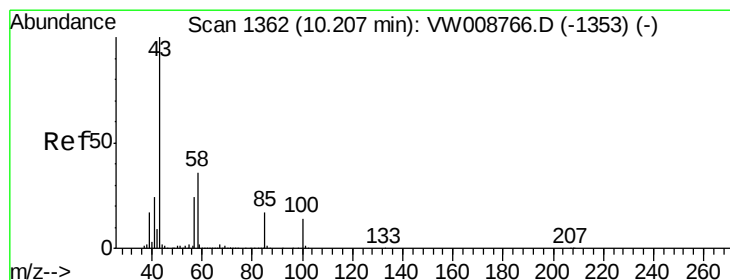
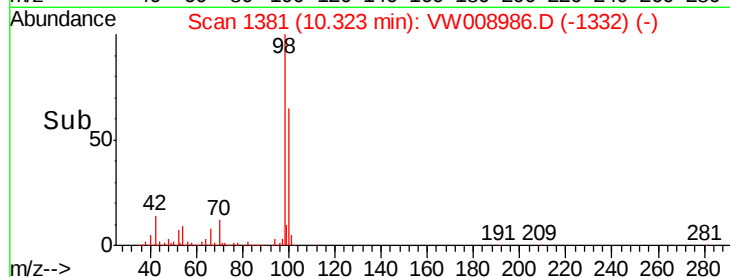
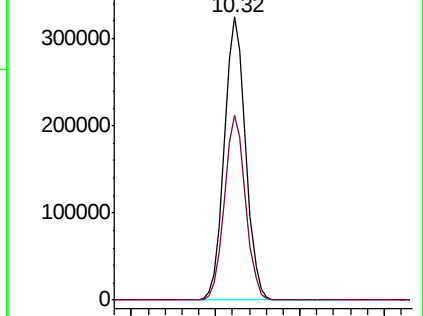
98 100

100 64.6 52.4 78.6



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: 1.316 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008986.D

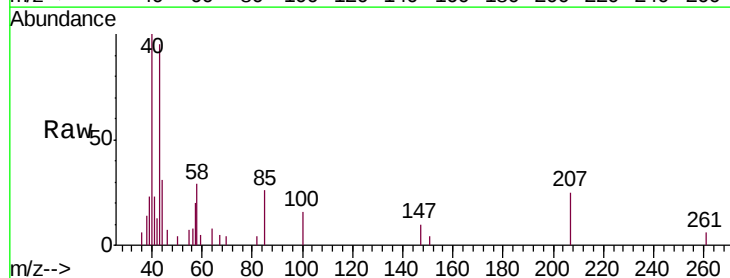
Acq: 05 Mar 2019 03:18

Tgt Ion: 43 Resp: 2860

Ion Ratio Lower Upper

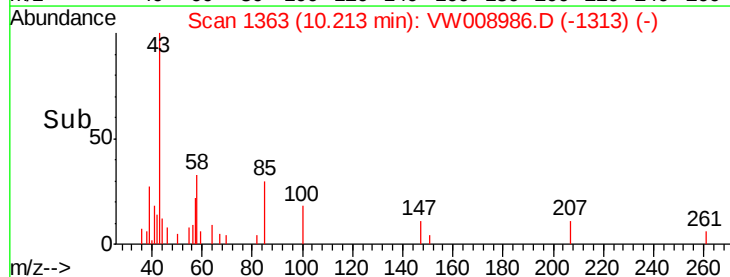
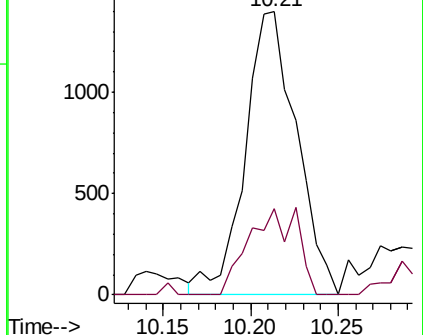
43 100

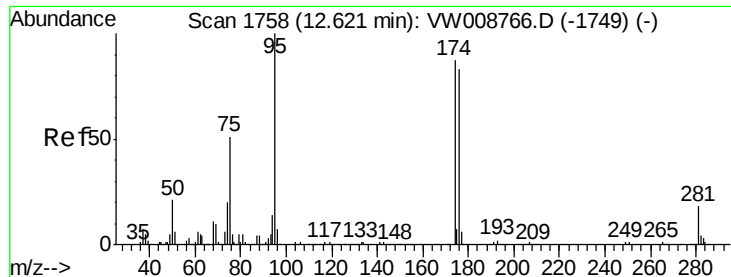
58 28.8 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

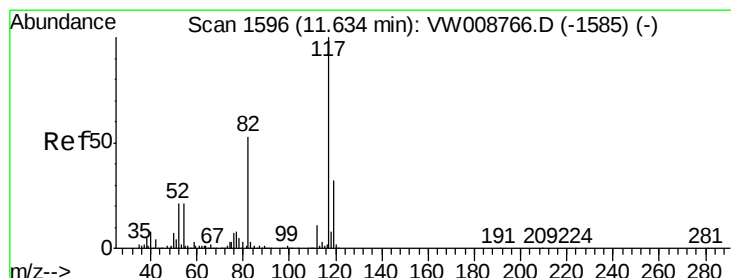
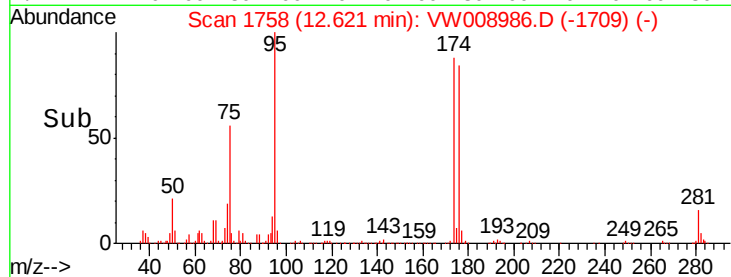
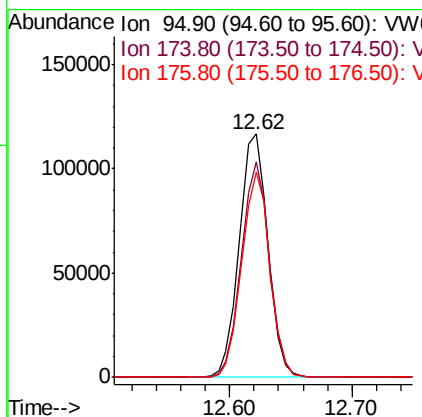
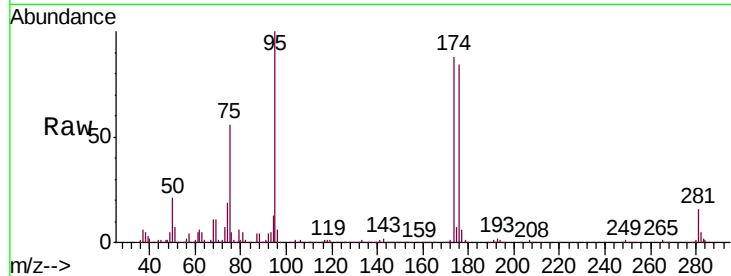




#62
4-Bromofluorobenzene
Concen: 44.101 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008986.D
Acq: 05 Mar 2019 03:18

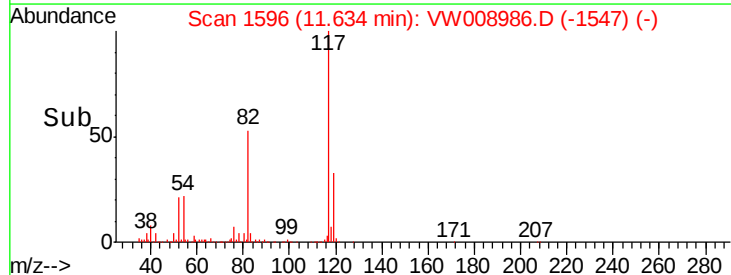
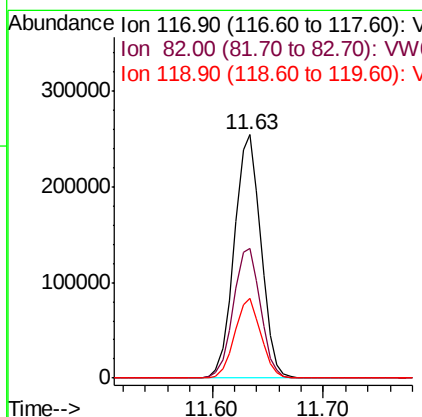
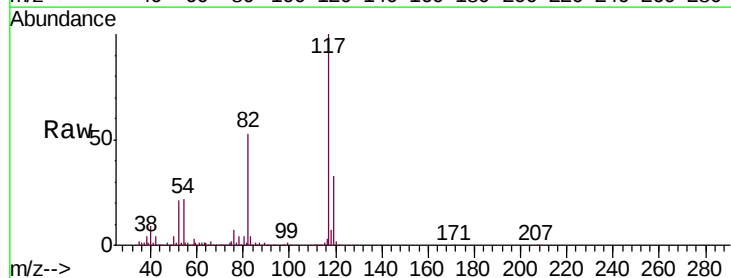
Instrument :
MSVOA_W
ClientSampled :
Z-2-4

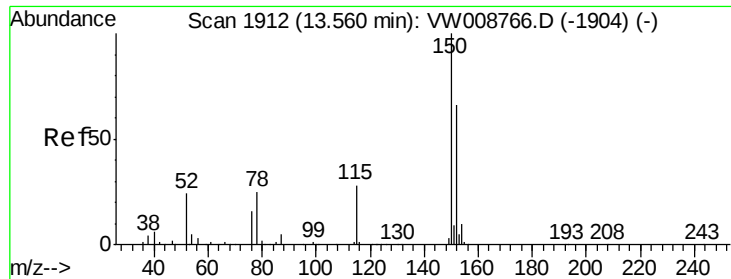
Tgt Ion: 95 Resp: 189616
Ion Ratio Lower Upper
95 100
174 86.6 0.0 169.2
176 82.4 0.0 163.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008986.D
Acq: 05 Mar 2019 03:18

Tgt Ion: 117 Resp: 419387
Ion Ratio Lower Upper
117 100
82 53.2 42.2 63.4
119 32.9 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008986.D

Acq: 05 Mar 2019 03:18

Instrument :

MSVOA_W

ClientSampleId :

Z-2-4

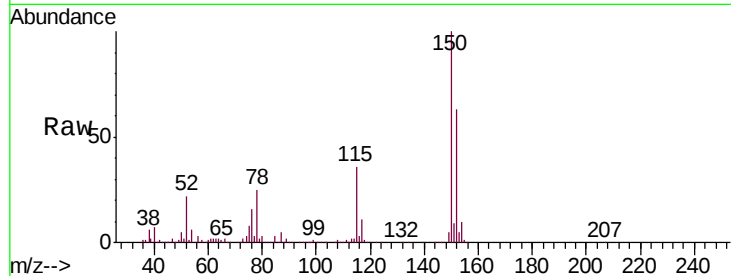
Tgt Ion:152 Resp: 196683

Ion Ratio Lower Upper

152 100

115 58.0 28.6 85.8

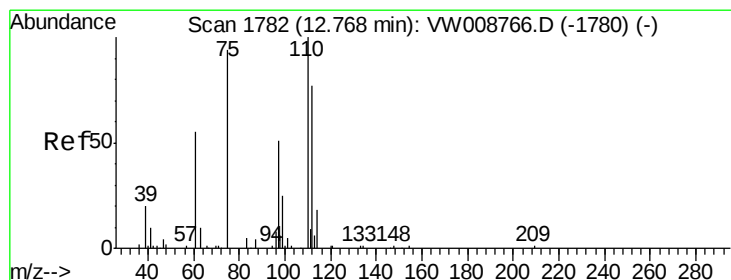
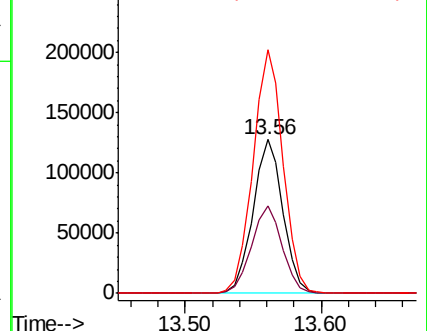
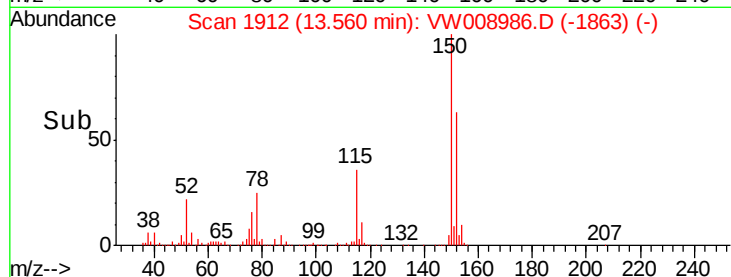
150 159.0 0.0 348.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 63.595 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008986.D

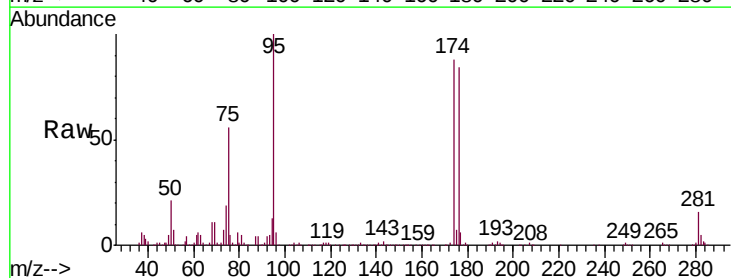
Acq: 05 Mar 2019 03:18

Tgt Ion: 75 Resp: 103270

Ion Ratio Lower Upper

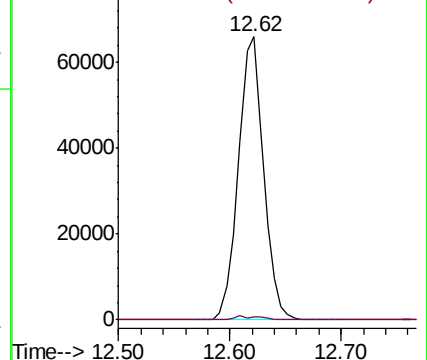
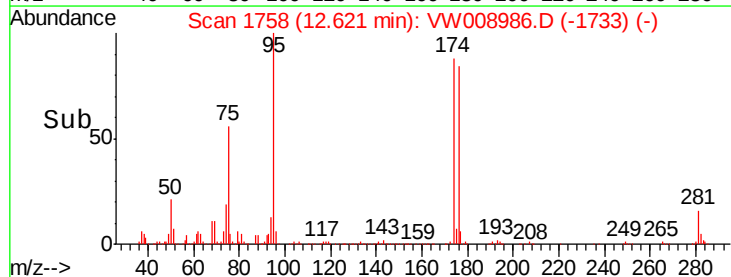
75 100

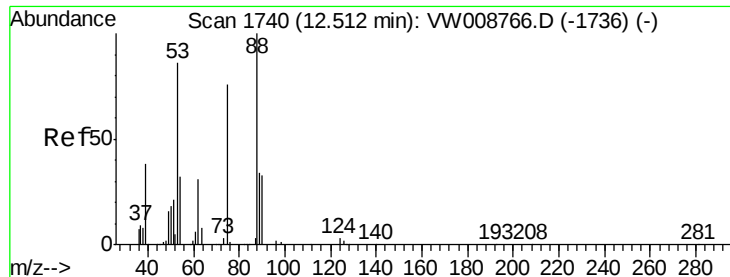
77 1.3 0.0 0.0#



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: 154.603 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008986.D

Acq: 05 Mar 2019 03:18

Instrument :

MSVOA_W

ClientSampleId :

Z-2-4

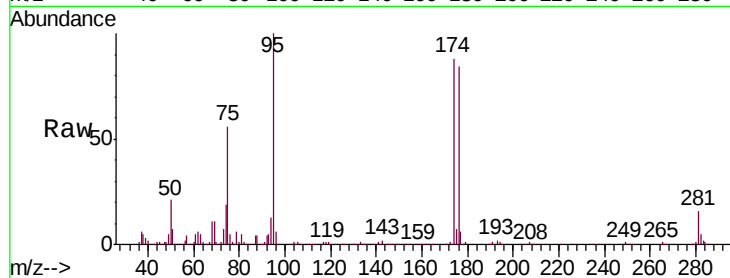
Tgt Ion: 75 Resp: 103270

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

89 0.3 39.5 59.3#



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

