

Data File : VW008808.D
Acq On : 25 Feb 2019 15:51
Operator : SY/VA
Sample : K1356-09RE
Misc : 6.49G/5ML/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SU-02-022219-A

Quant Time: Feb 26 03:43:23 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	306388	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	467210	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	398754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	173368	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	174891	60.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.72%	
35) Dibromofluoromethane	7.88	113	142388	50.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.52%	
50) Toluene-d8	10.32	98	547694	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
62) 4-Bromofluorobenzene	12.62	95	180031	42.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.92%	

Target Compounds

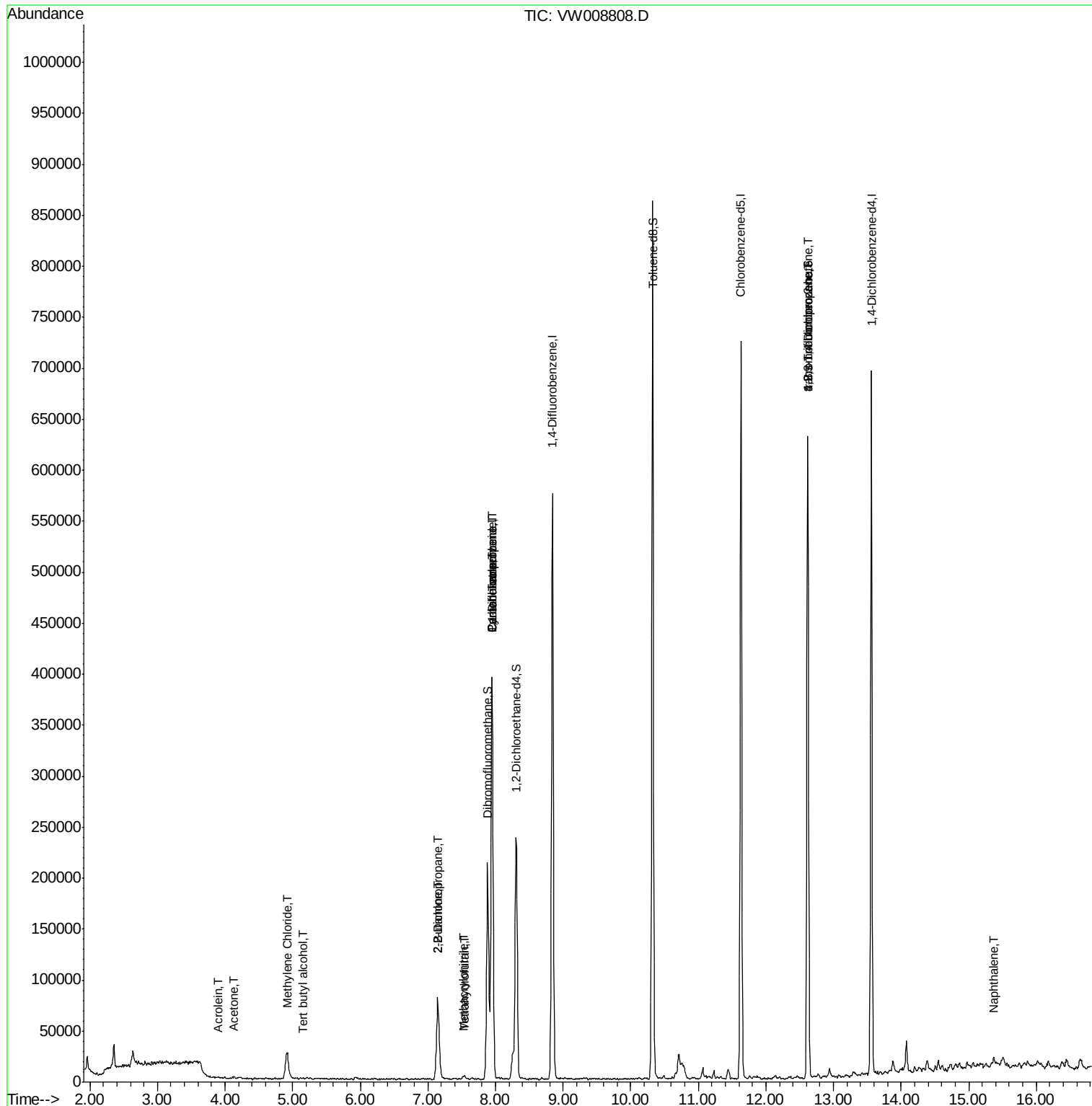
						Qvalue
11) Tert butyl alcohol	5.16	59	348	1.360	ug/l #	70
13) Acrolein	3.89	56	192	20.435	ug/l #	78
16) Acetone	4.12	43	2601	3.905	ug/l #	75
20) Methylene Chloride	4.92	84	20438	1.247	ug/l	96
25) 2-Butanone	7.15	43	4325	4.644	ug/l #	87
26) 2,2-Dichloropropane	7.15	77	5461	1.124	ug/l #	55
29) Tetrahydrofuran	7.54	42	3298	5.557	ug/l #	86
31) Cyclohexane	7.95	56	6946	1.282	ug/l #	15
36) 1,1-Dichloropropene	7.95	75	21859	4.806	ug/l #	52
38) Carbon Tetrachloride	7.95	117	28590	5.961	ug/l #	16
41) Methacrylonitrile	7.52	41	2095	1.685	ug/l #	36
76) 1,2,3-Trichloropropane	12.62	75	94141	65.769	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	94141	159.890	ug/l #	6
95) Naphthalene	15.37	128	8432	1.324	ug/l #	87

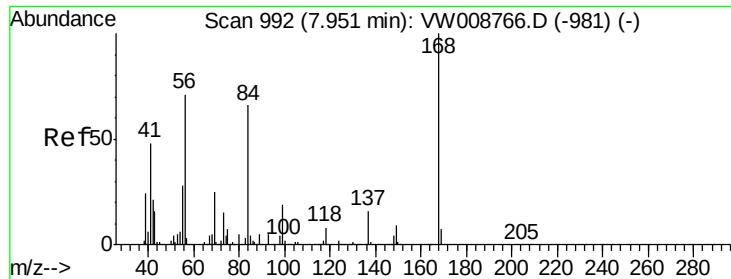
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008808.D

Acq: 25 Feb 2019 15:51

Instrument :

MSVOA_W

ClientSampleId :

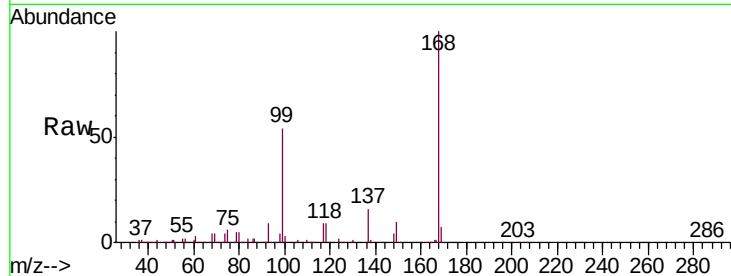
SU-02-022219-A

Tgt Ion:168 Resp: 306388

Ion Ratio Lower Upper

168 100

99 53.7 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

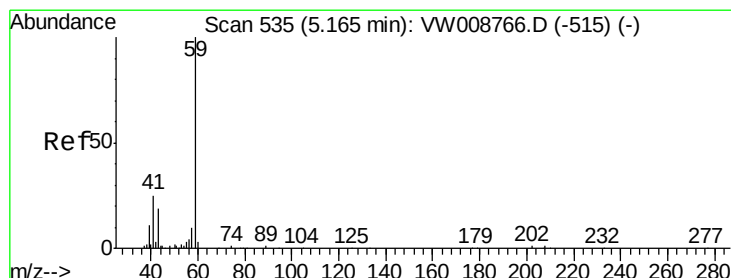
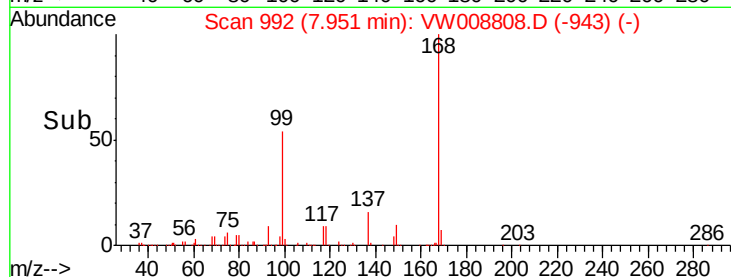
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.360 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW008808.D

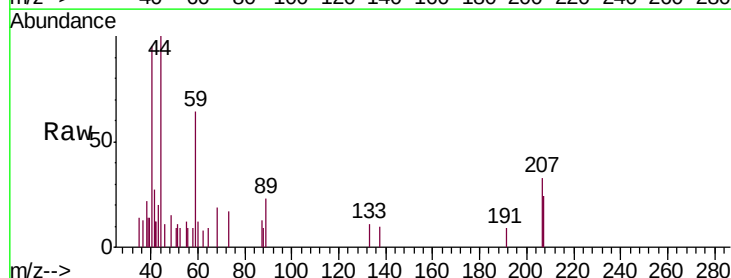
Acq: 25 Feb 2019 15:51

Tgt Ion: 59 Resp: 348

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.16

400

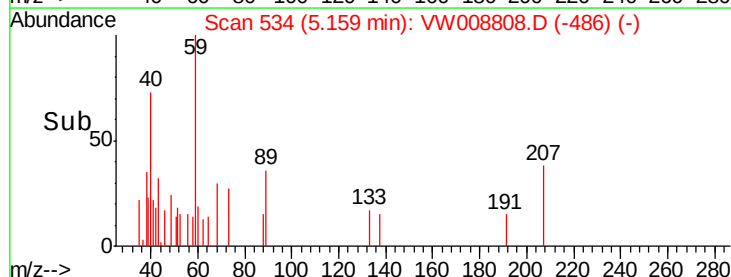
300

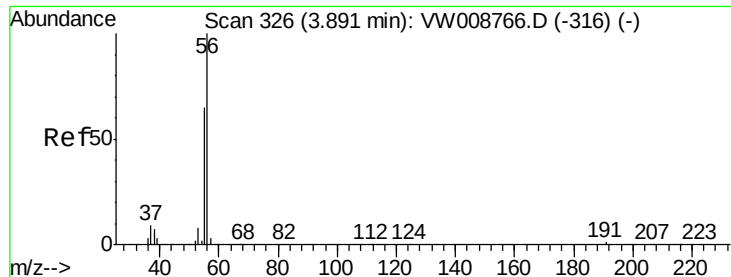
200

100

0

Time-->





#13

Acrolein

Concen: 20.435 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW008808.D

Acq: 25 Feb 2019 15:51

Instrument :

MSVOA_W

ClientSampleId :

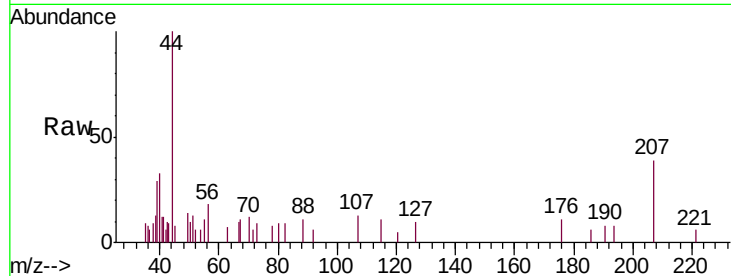
SU-02-022219-A

Tgt Ion: 56 Resp: 192

Ion Ratio Lower Upper

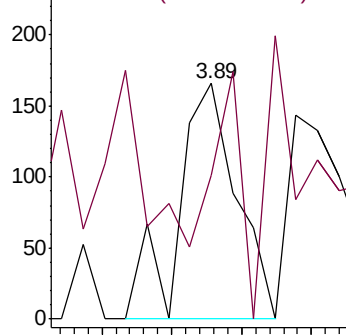
56 100

55 52.6 56.9 85.3#

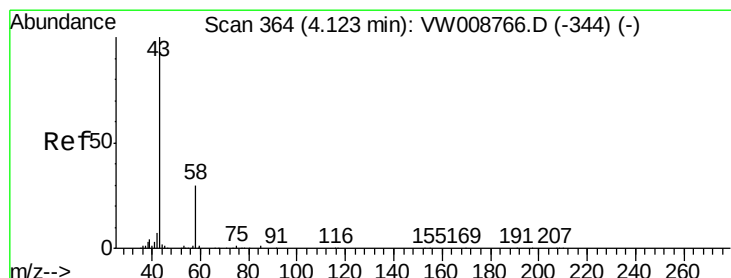
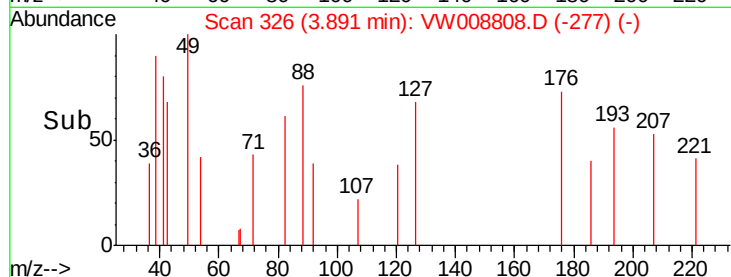


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



Time-->



#16

Acetone

Concen: 3.905 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW008808.D

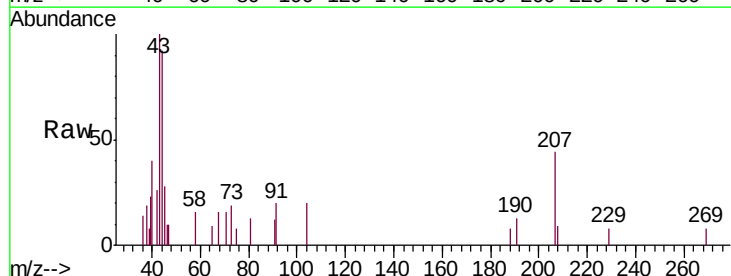
Acq: 25 Feb 2019 15:51

Tgt Ion: 43 Resp: 2601

Ion Ratio Lower Upper

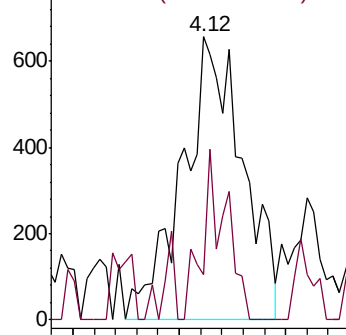
43 100

58 16.0 23.8 35.6#

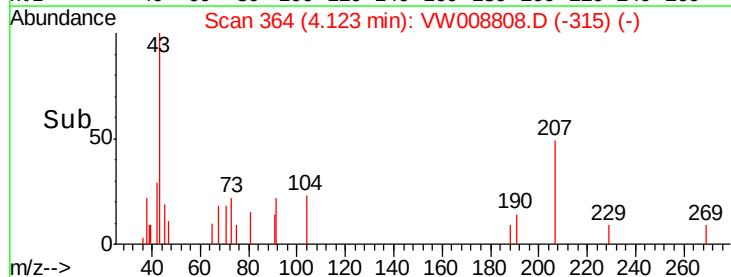


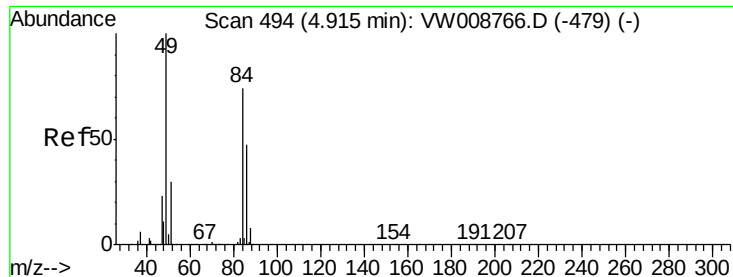
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



Time-->

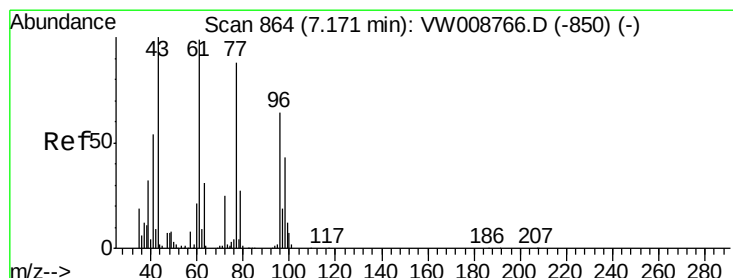
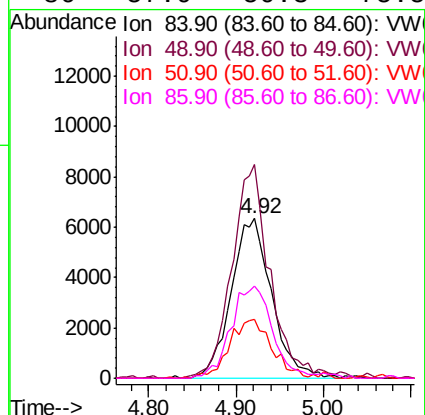
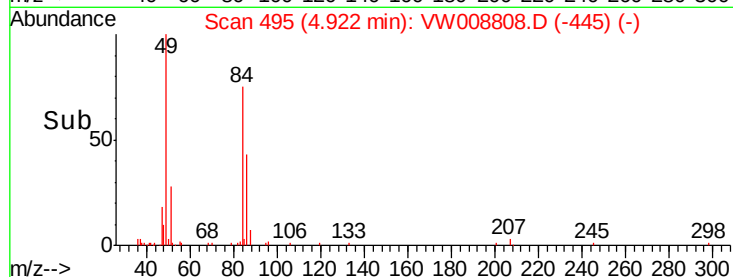
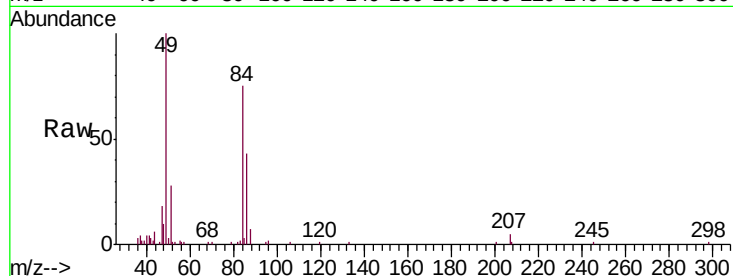




#20
Methylene Chloride
Concen: 1.247 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW008808.D
Acq: 25 Feb 2019 15:51

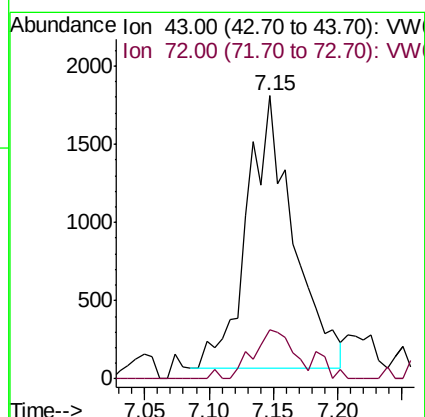
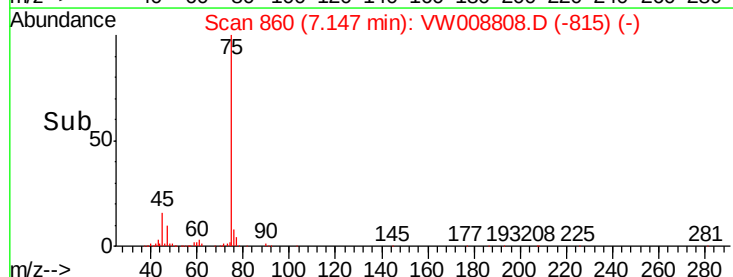
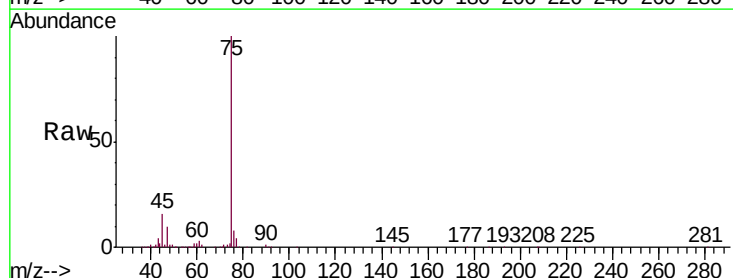
Instrument :
MSVOA_W
ClientSampleId :
SU-02-022219-A

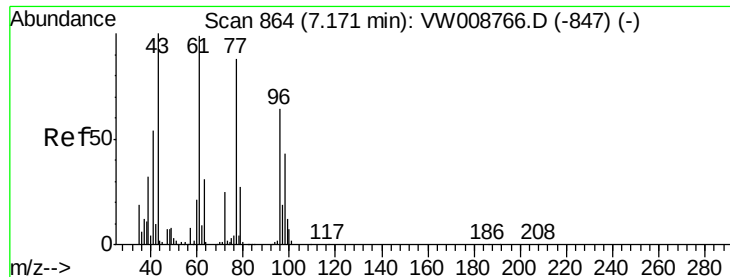
Tgt Ion: 84 Resp: 20438
Ion Ratio Lower Upper
84 100
49 132.0 108.2 162.2
51 36.9 32.7 49.1
86 57.9 50.3 75.5



#25
2-Butanone
Concen: 4.644 ug/l
RT: 7.15 min Scan# 860
Delta R.T. -0.02 min
Lab File: VW008808.D
Acq: 25 Feb 2019 15:51

Tgt Ion: 43 Resp: 4325
Ion Ratio Lower Upper
43 100
72 18.2 19.7 29.5#

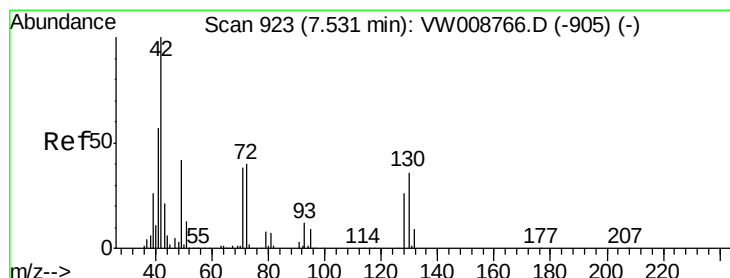
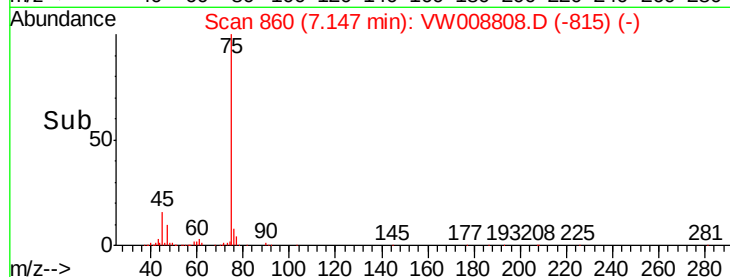
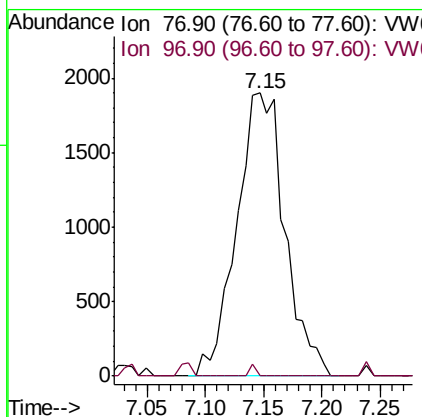
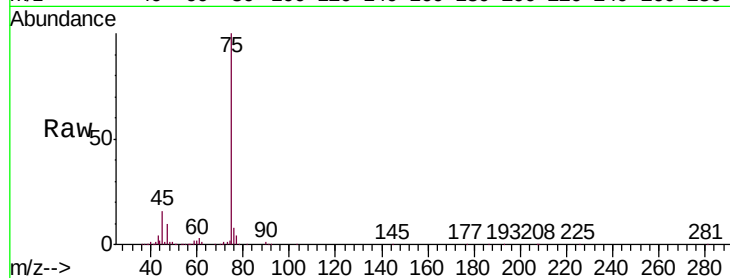




#26
 2,2-Dichloropropane
 Concen: 1.124 ug/l
 RT: 7.15 min Scan# 860
 Delta R.T. -0.02 min
 Lab File: VW008808.D
 Acq: 25 Feb 2019 15:51

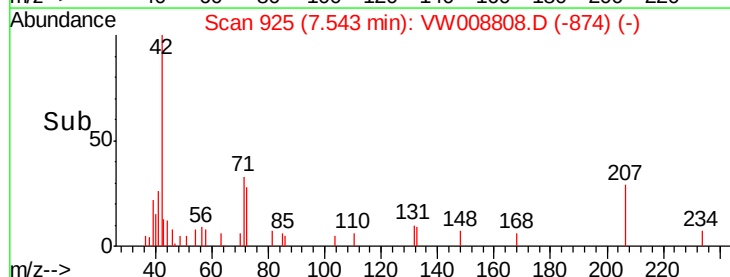
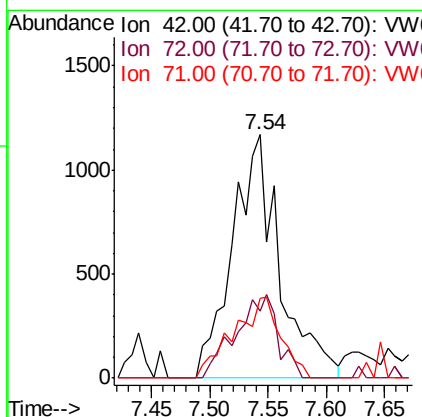
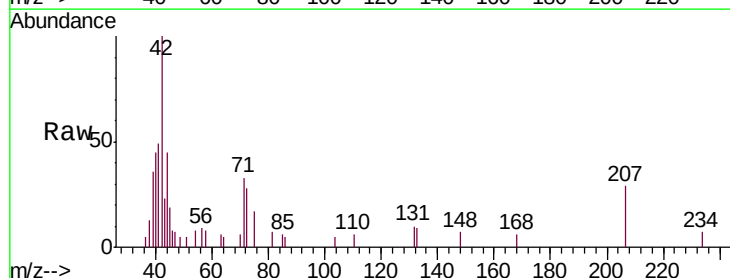
Instrument :
 MSVOA_W
 ClientSampleId :
 SU-02-022219-A

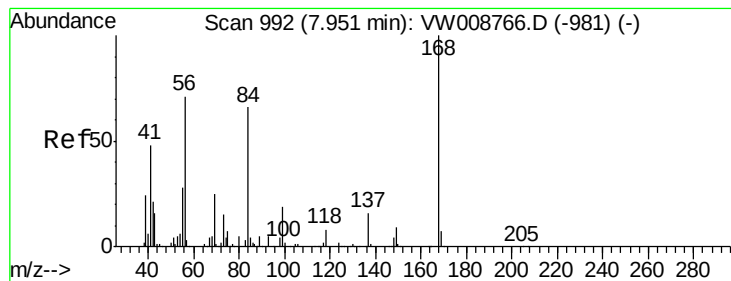
Tgt Ion: 77 Resp: 5461
 Ion Ratio Lower Upper
 77 100
 97 0.5 11.0 33.0#



#29
 Tetrahydrofuran
 Concen: 5.557 ug/l
 RT: 7.54 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: VW008808.D
 Acq: 25 Feb 2019 15:51

Tgt Ion: 42 Resp: 3298
 Ion Ratio Lower Upper
 42 100
 72 30.4 32.7 49.1#
 71 32.9 31.3 46.9





#31

Cyclohexane

Concen: 1.282 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008808.D

Acq: 25 Feb 2019 15:51

Instrument :

MSVOA_W

ClientSampleId :

SU-02-022219-A

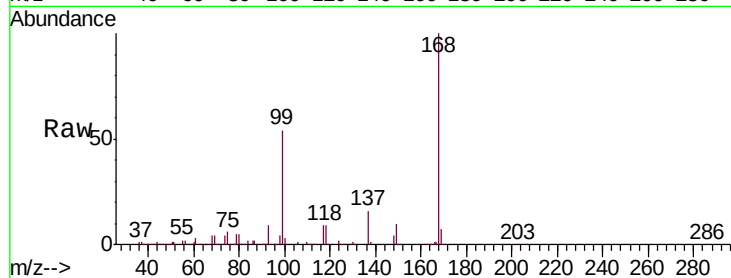
Tgt Ion: 56 Resp: 6946

Ion Ratio Lower Upper

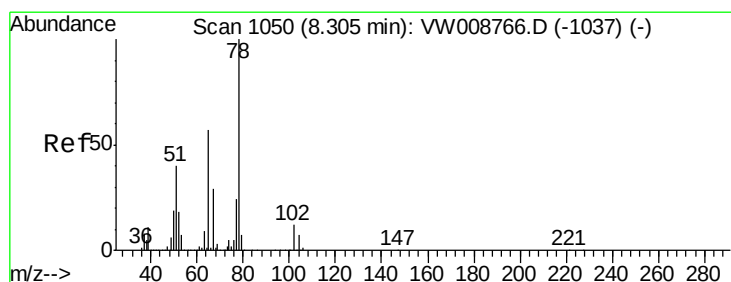
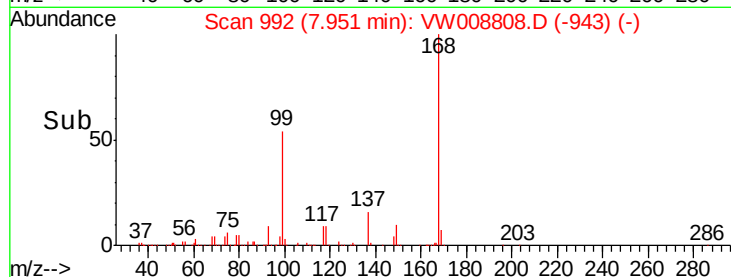
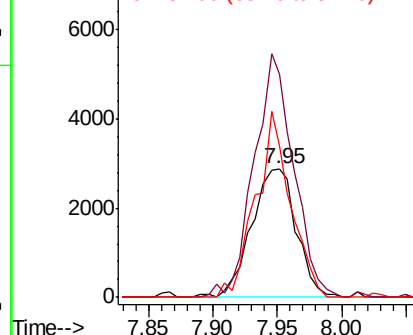
56 100

69 173.7 28.2 42.4#

84 117.8 74.1 111.1#



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: 60.860 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008808.D

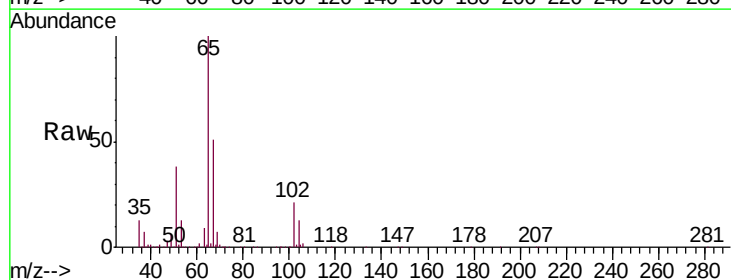
Acq: 25 Feb 2019 15:51

Tgt Ion: 65 Resp: 174891

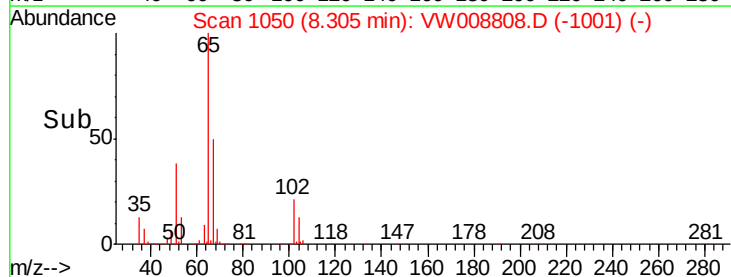
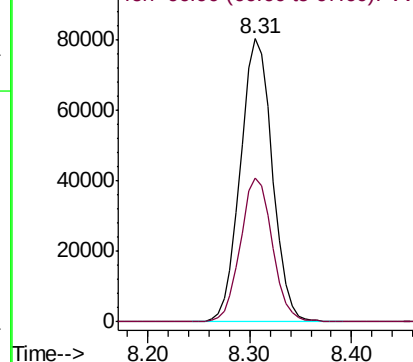
Ion Ratio Lower Upper

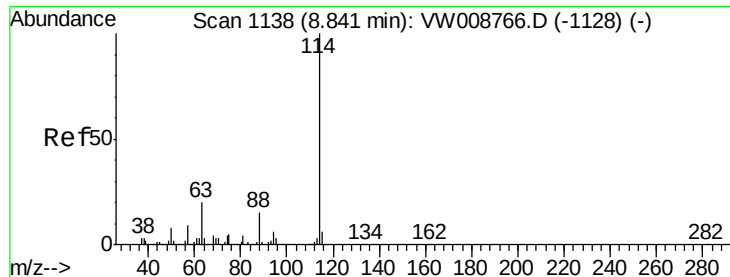
65 100

67 51.0 0.0 101.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008808.D

Acq: 25 Feb 2019 15:51

Instrument :

MSVOA_W

ClientSampleId :

SU-02-022219-A

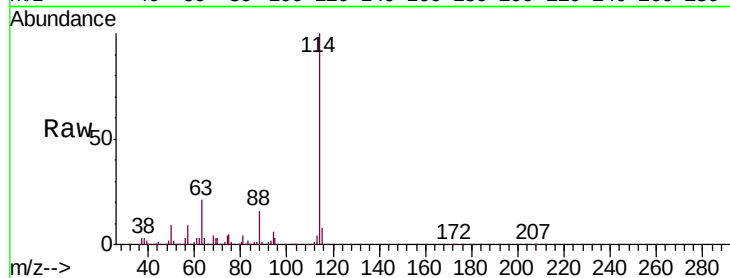
Tgt Ion:114 Resp: 467210

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

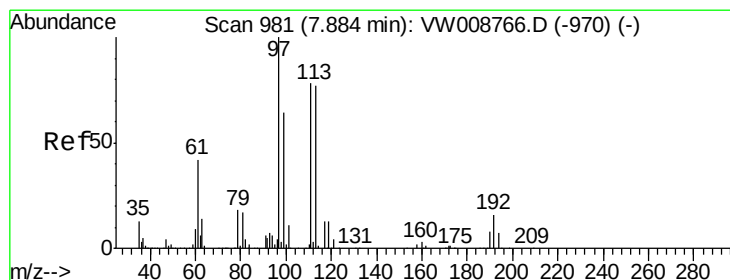
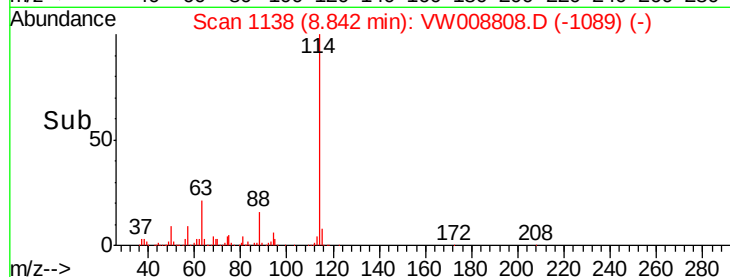
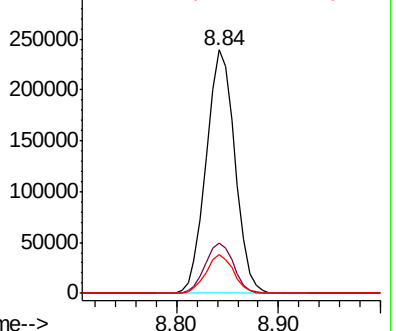
88 15.7 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 50.759 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008808.D

Acq: 25 Feb 2019 15:51

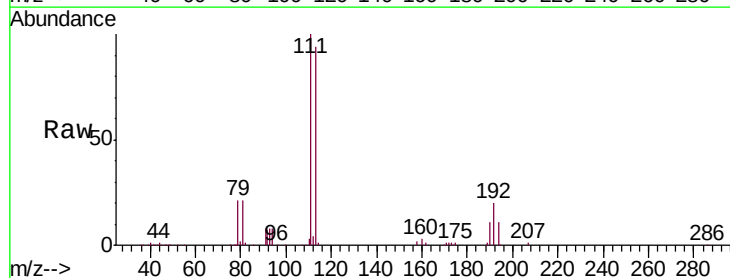
Tgt Ion:113 Resp: 142388

Ion Ratio Lower Upper

113 100

111 104.4 81.9 122.9

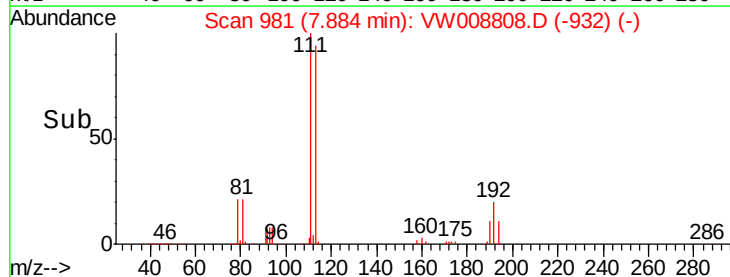
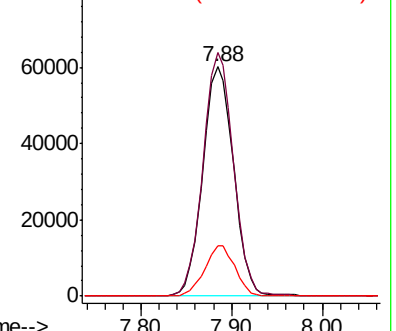
192 21.6 17.1 25.7

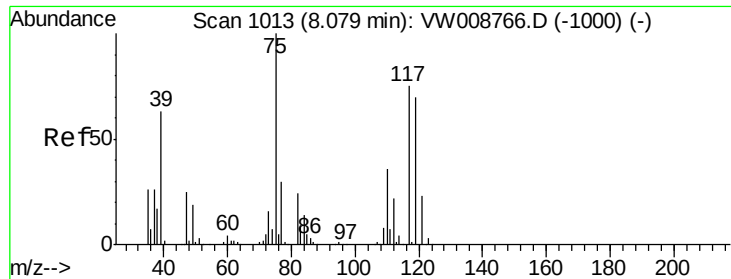


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

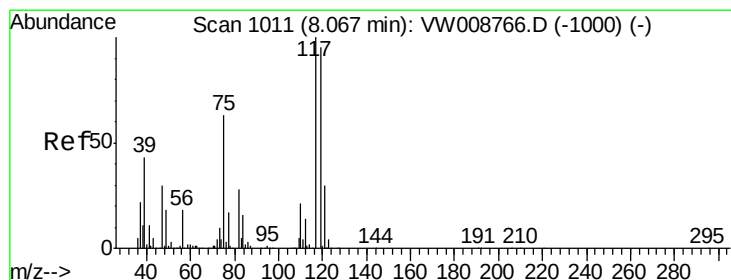
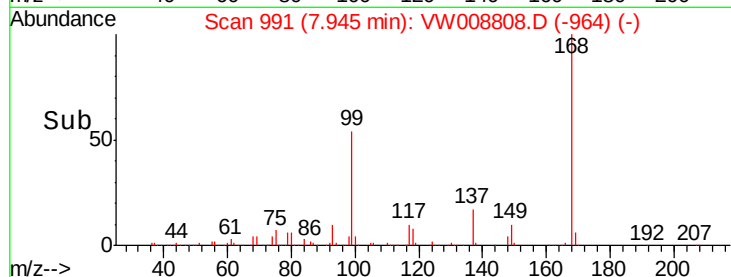
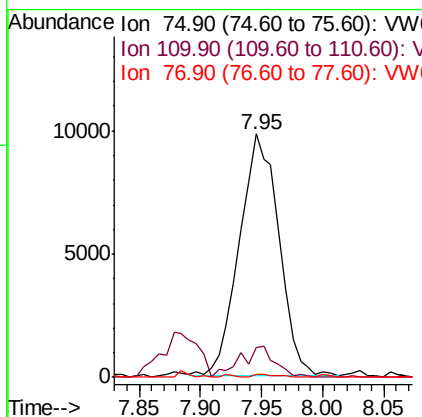
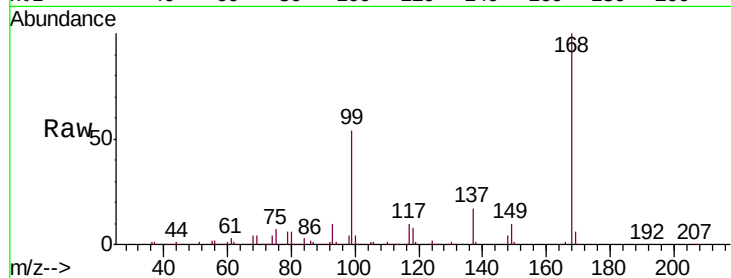




#36
 1,1-Dichloropropene
 Concen: 4.806 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008808.D
 Acq: 25 Feb 2019 15:51

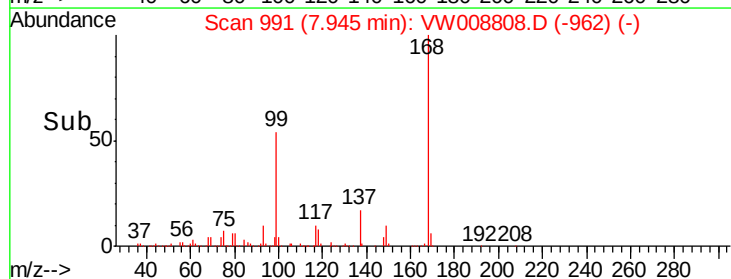
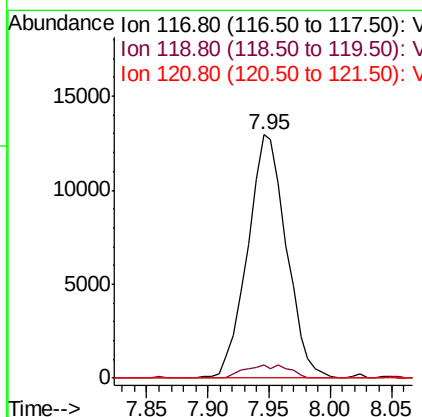
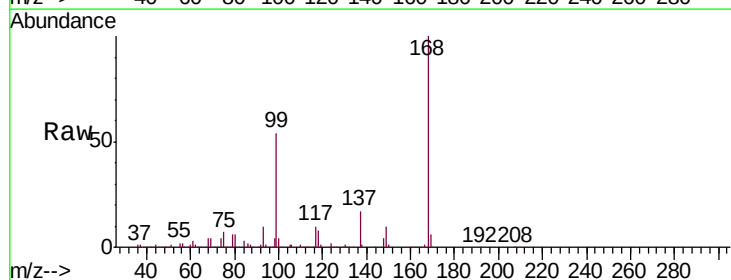
Instrument :
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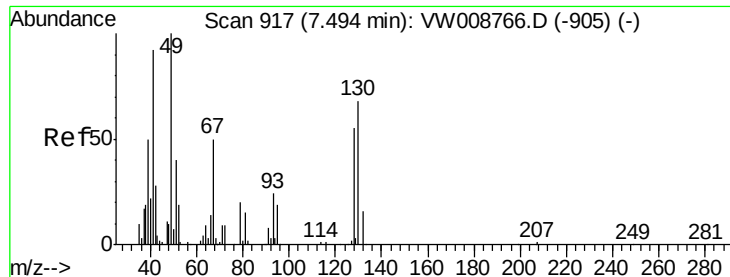
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	17.5	52.6#
77	0.7	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 5.961 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW008808.D
 Acq: 25 Feb 2019 15:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.1	114.1#
121	0.0	24.0	36.0#

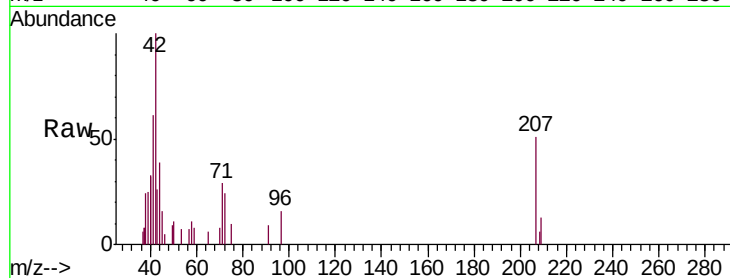




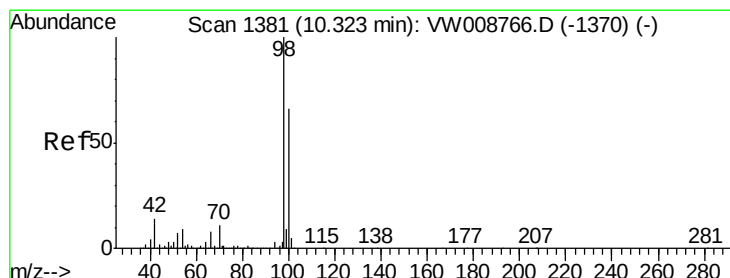
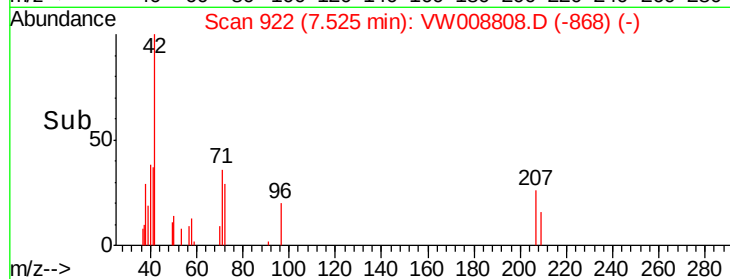
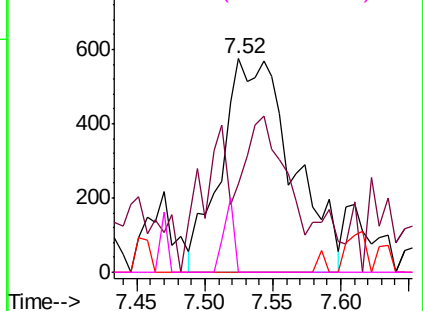
#41
Methacrylonitrile
Concen: 1.685 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.03 min
Lab File: VW008808.D
Acq: 25 Feb 2019 15:51

Instrument :
MSVOA_W
ClientSampleId :
SU-02-022219-A

Tgt Ion	Ratio	Lower	Upper
41	100		
39	25.6	52.5	78.7#
67	0.0	55.0	82.6#
52	5.1	26.9	40.3#

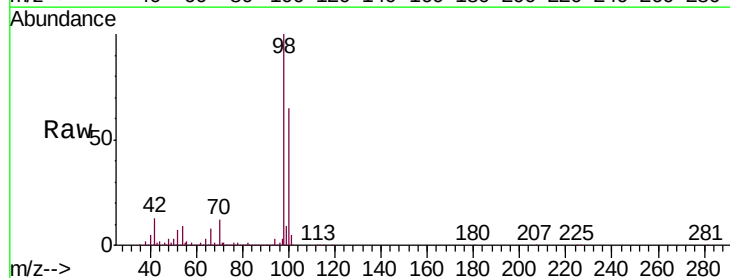


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

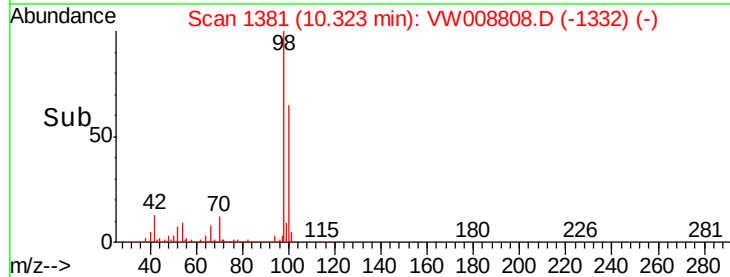
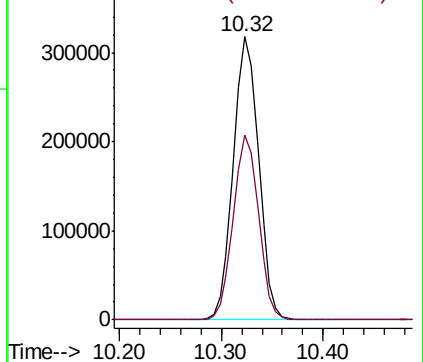


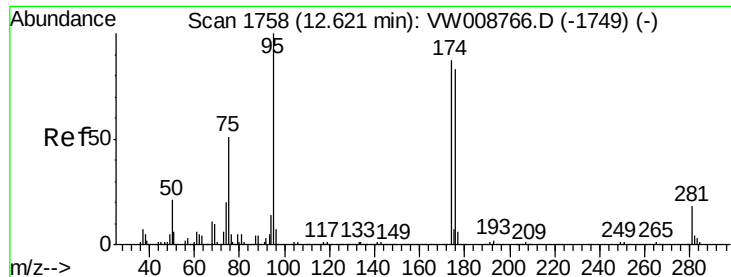
#50
Toluene-d8
Concen: 50.577 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008808.D
Acq: 25 Feb 2019 15:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.4	78.6



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





#62

4-Bromofluorobenzene

Concen: 42.461 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008808.D

Acq: 25 Feb 2019 15:51

Instrument :

MSVOA_W

ClientSampleId :

SU-02-022219-A

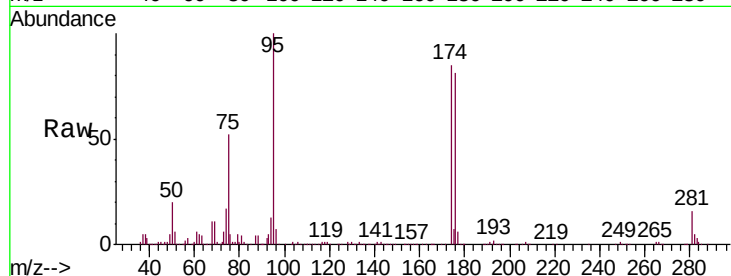
Tgt Ion: 95 Resp: 180031

Ion Ratio Lower Upper

95 100

174 86.2 0.0 169.2

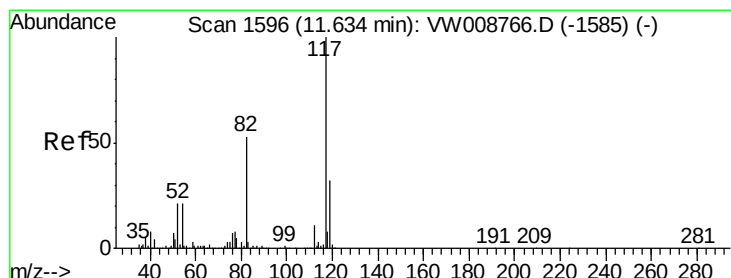
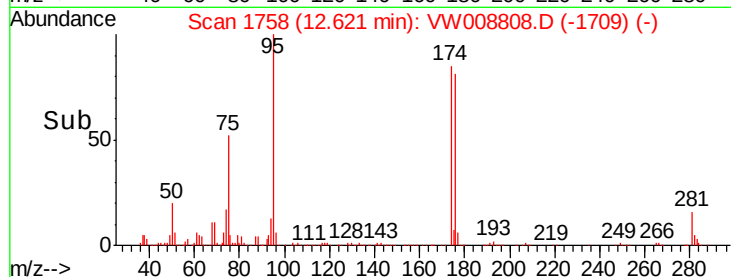
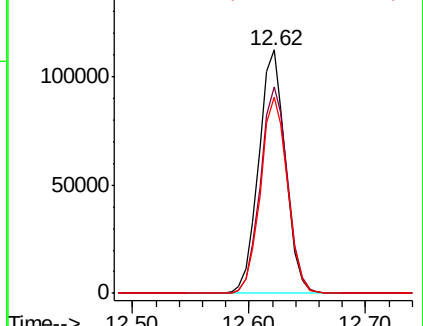
176 81.3 0.0 163.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008808.D

Acq: 25 Feb 2019 15:51

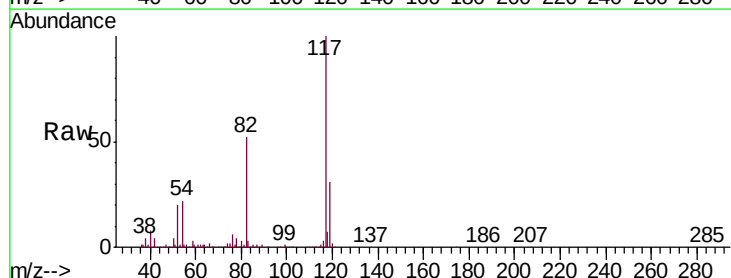
Tgt Ion: 117 Resp: 398754

Ion Ratio Lower Upper

117 100

82 52.4 42.2 63.4

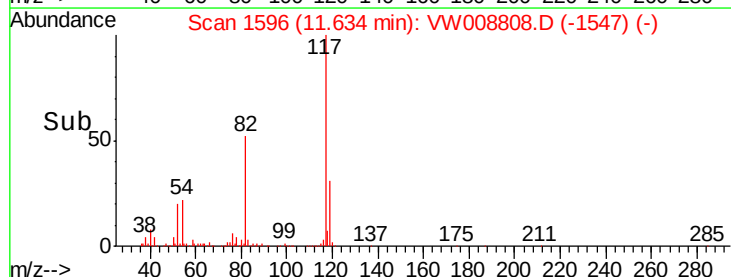
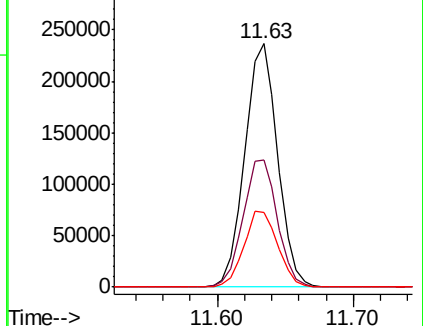
119 30.8 25.9 38.9

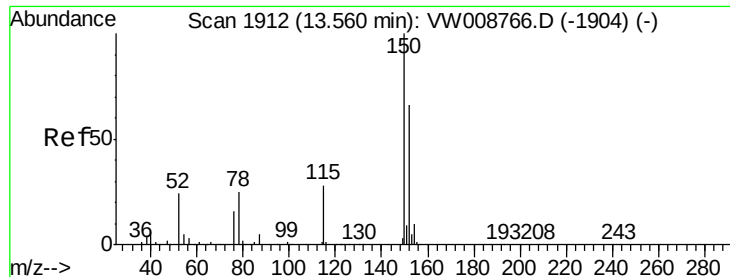


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW



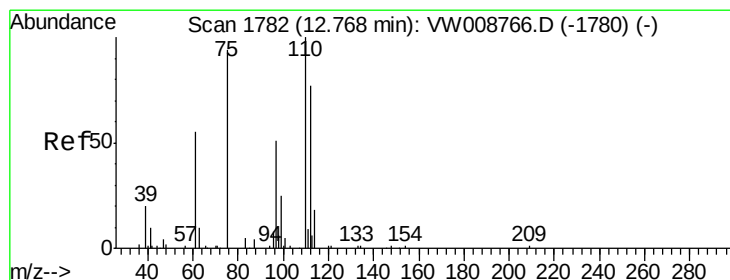
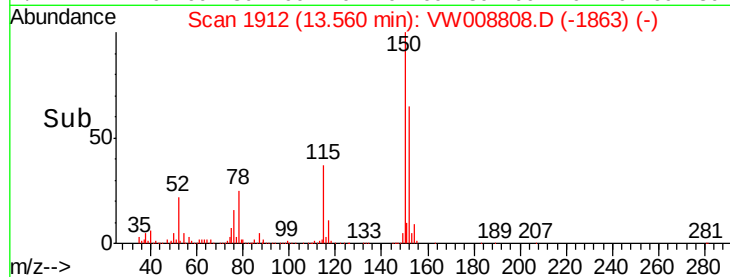
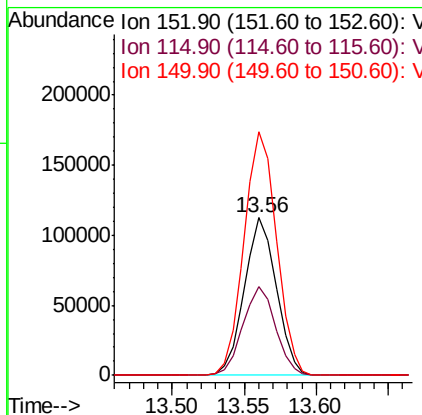
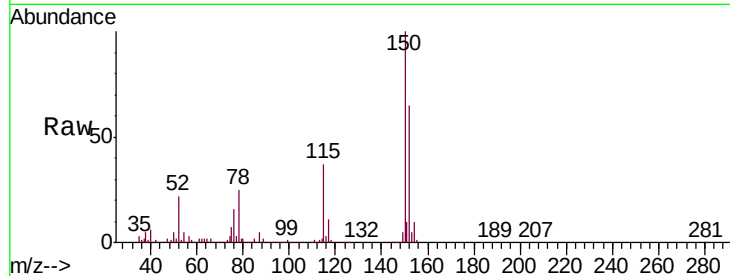


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008808.D
Acq: 25 Feb 2019 15:51

Instrument :
MSVOA_W
ClientSampleId :
SU-02-022219-A

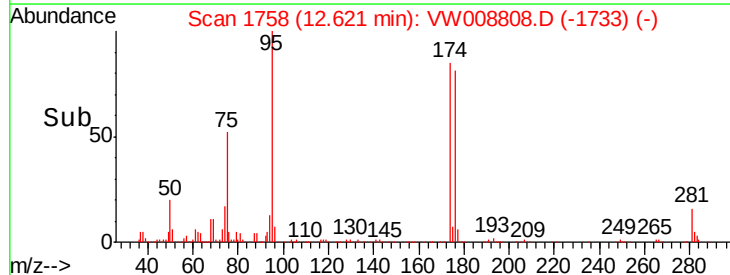
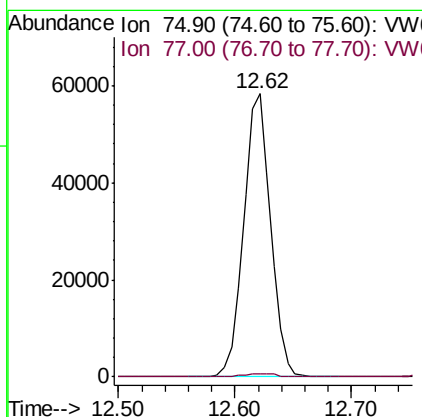
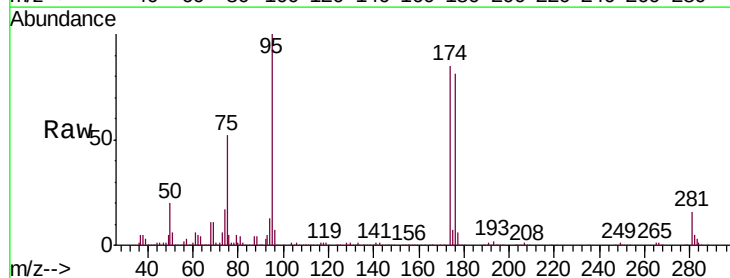
Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.6	85.8
150	156.9	0.0	348.0

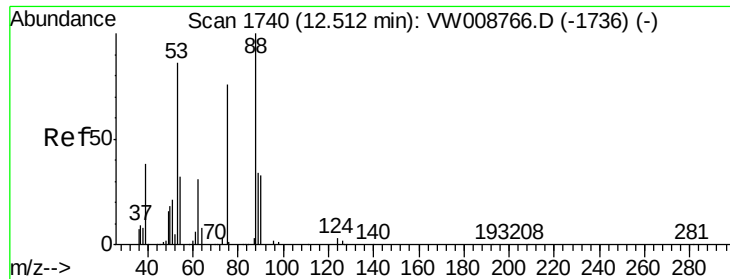


#76

1,2,3-Trichloropropane
Concen: 65.769 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW008808.D
Acq: 25 Feb 2019 15:51

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.6	0.0	0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 159.890 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008808.D

Acq: 25 Feb 2019 15:51

Instrument :

MSVOA_W

ClientSampleId :

SU-02-022219-A

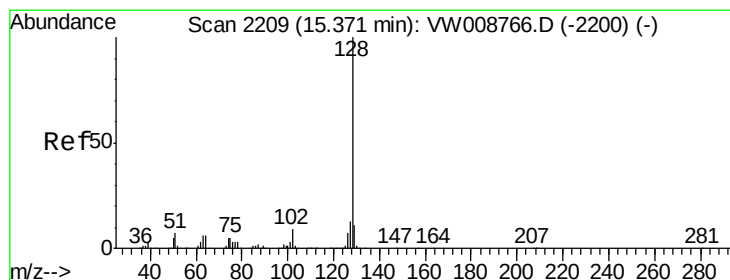
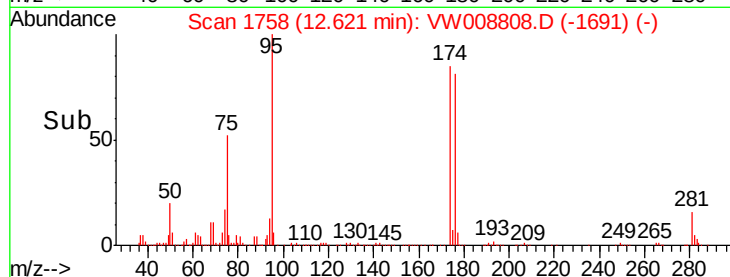
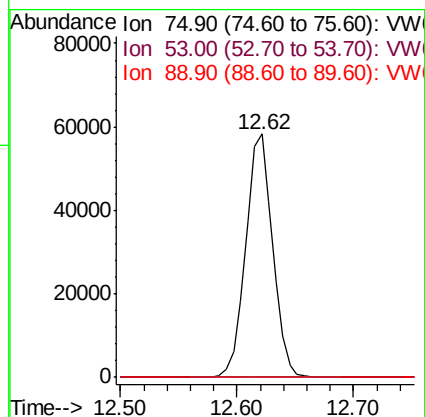
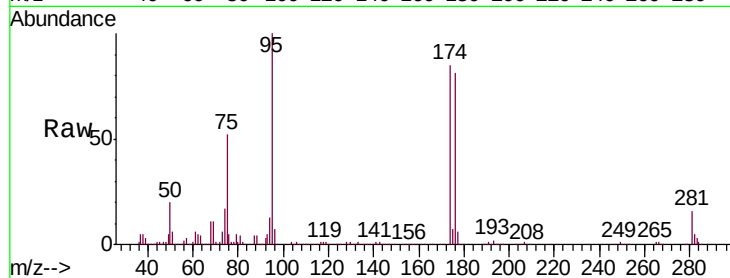
Tgt Ion: 75 Resp: 94141

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

89 0.3 39.5 59.3#



#95

Naphthalene

Concen: 1.324 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008808.D

Acq: 25 Feb 2019 15:51

Tgt Ion: 128 Resp: 8432

Ion Ratio Lower Upper

128 100

127 16.9 10.8 16.2#

129 17.7 8.7 13.1#

