

Data File : VW009027.D
Acq On : 06 Mar 2019 20:37
Operator : SY/VA
Sample : K1760-07
Misc : 3.90G/5ML/MSVOA_W/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
Z2-9

Quant Time: Mar 07 07:29:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030619S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 07 07:22:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	29609	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	40470	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	33316	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	11112	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	16691	56.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.38%	
35) Dibromofluoromethane	7.89	113	13606	55.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.70%	
50) Toluene-d8	10.32	98	47485	47.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.86%	
62) 4-Bromofluorobenzene	12.62	95	13010	33.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.30%	

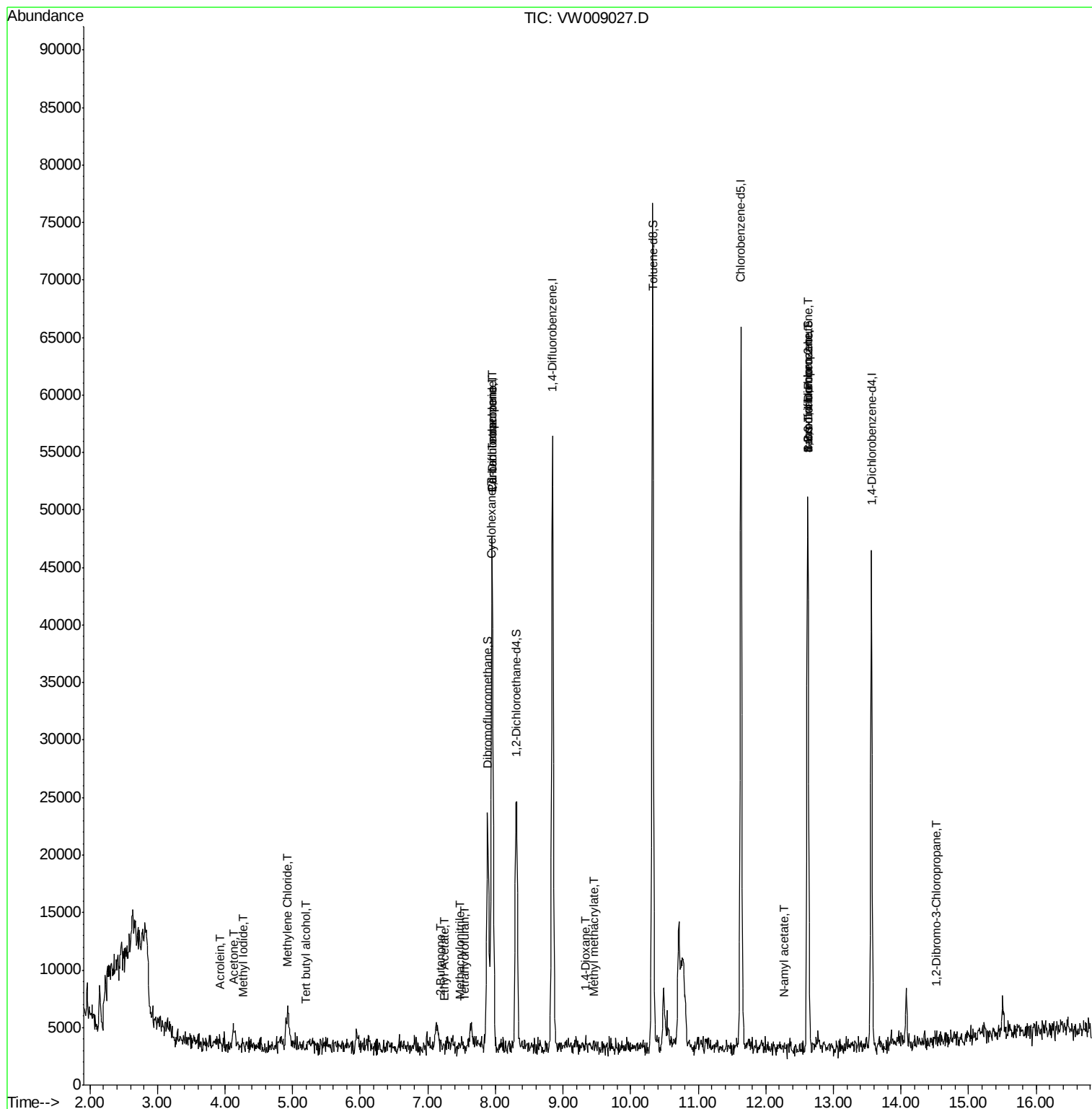
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.28	142	112	5.929	ug/l #	1
11) Tert butyl alcohol	5.19	59	70	3.287	ug/l #	70
13) Acrolein	3.92	56	59	2.422	ug/l #	55
16) Acetone	4.14	43	3221	52.793	ug/l	91
20) Methylene Chloride	4.92	84	2284	5.470	ug/l	84
25) 2-Butanone	7.18	43	121	1.394	ug/l #	50
29) Tetrahydrofuran	7.55	42	64	1.174	ug/l #	35
31) Cyclohexane	7.94	56	866	1.622	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	2596	6.451	ug/l #	43
37) Ethyl Acetate	7.25	43	202	1.135	ug/l #	52
38) Carbon Tetrachloride	7.95	117	2938	7.055	ug/l #	18
41) Methacrylonitrile	7.48	41	211	1.999	ug/l #	14
48) Methyl methacrylate	9.46	41	296	1.790	ug/l #	56
49) 1,4-Dioxane	9.33	88	28	13.798	ug/l #	15
71) Bromoform	12.62	173	252	2.037	ug/l #	1
74) N-amyl acetate	12.28	43	136	4.833	ug/l #	41
76) 1,2,3-Trichloropropane	12.62	75	6642	75.418	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	6642	152.562	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.52	75	67	3.090	ug/l #	22

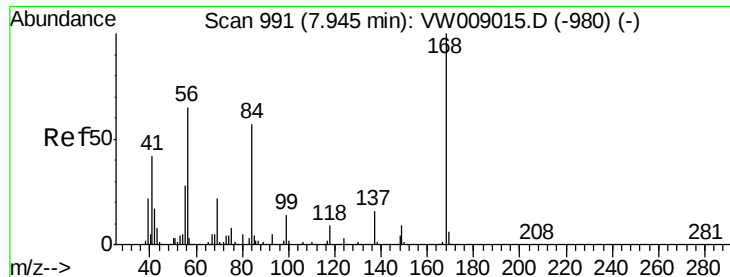
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Instrument :

MSVOA_W

ClientSampled :

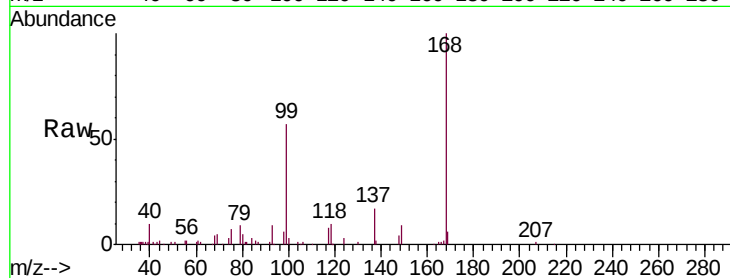
Z2-9

Tgt Ion:168 Resp: 29609

Ion Ratio Lower Upper

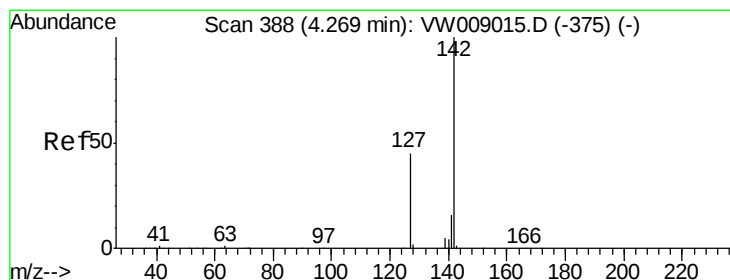
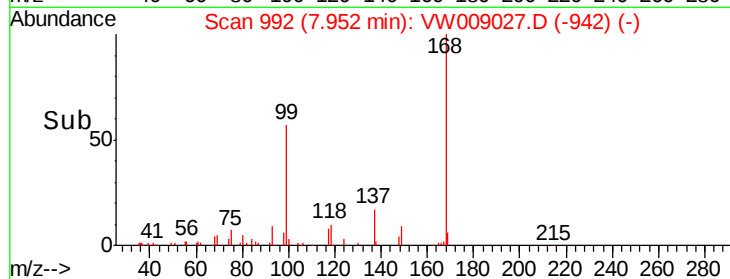
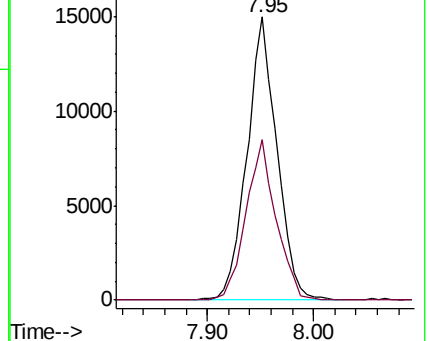
168 100

99 56.7 43.5 65.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#10

Methyl Iodide

Concen: 5.929 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

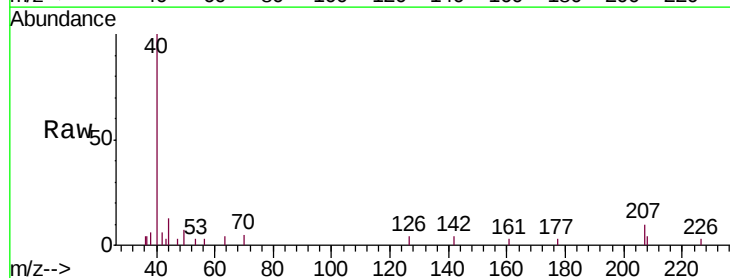
Tgt Ion:142 Resp: 112

Ion Ratio Lower Upper

142 100

127 131.3 36.2 54.2#

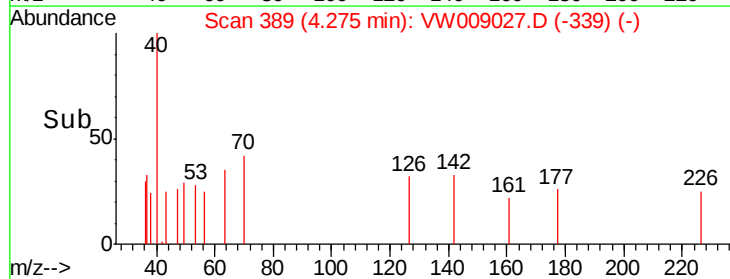
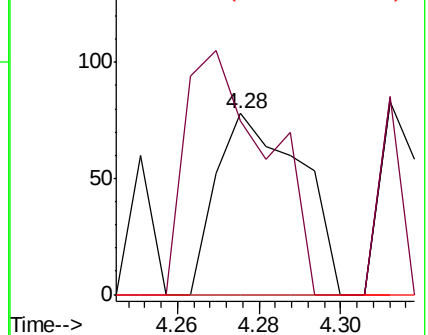
141 0.0 12.3 18.5#

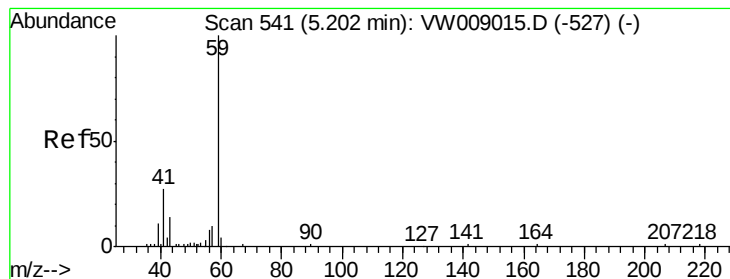


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 3.287 ug/l

RT: 5.19 min Scan# 539

Delta R.T. -0.01 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Instrument :

MSVOA_W

ClientSampled :

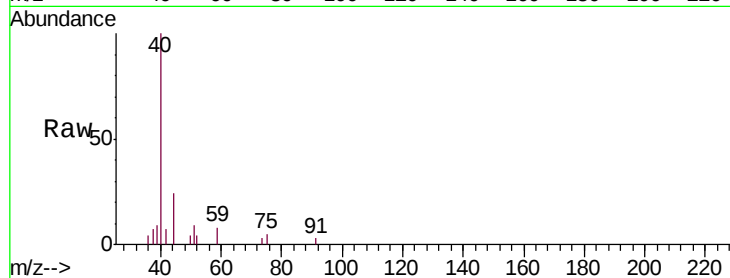
Z2-9

Tgt Ion: 59 Resp: 70

Ion Ratio Lower Upper

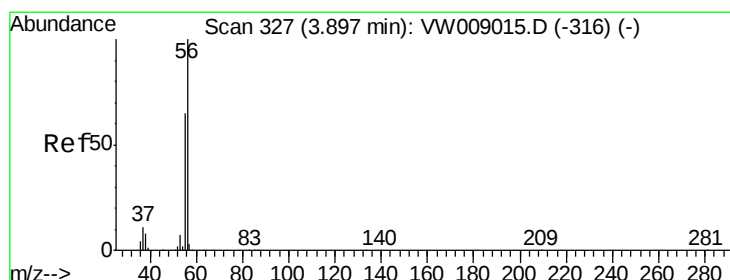
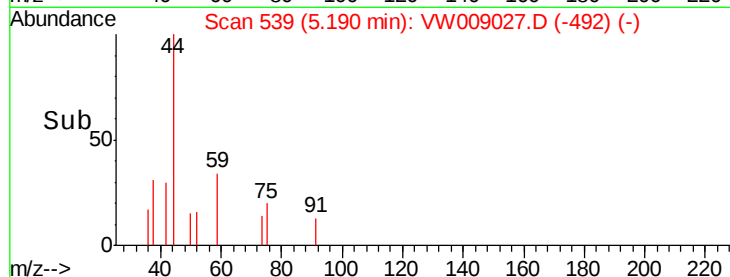
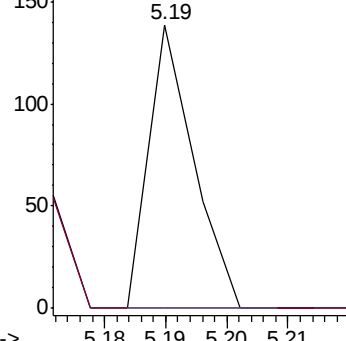
59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#13

Acrolein

Concen: 2.422 ug/l

RT: 3.92 min Scan# 330

Delta R.T. 0.02 min

Lab File: VW009027.D

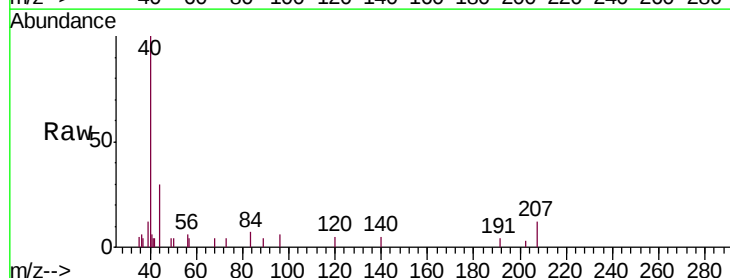
Acq: 06 Mar 2019 20:37

Tgt Ion: 56 Resp: 59

Ion Ratio Lower Upper

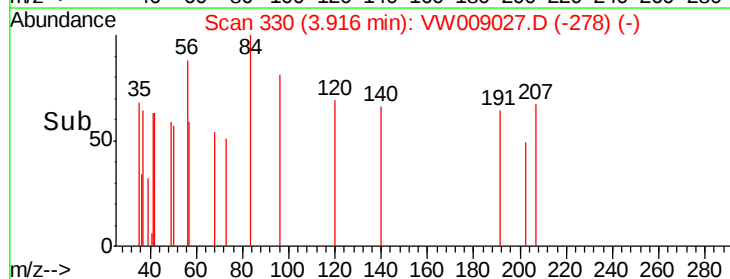
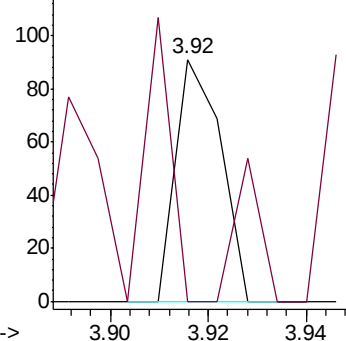
56 100

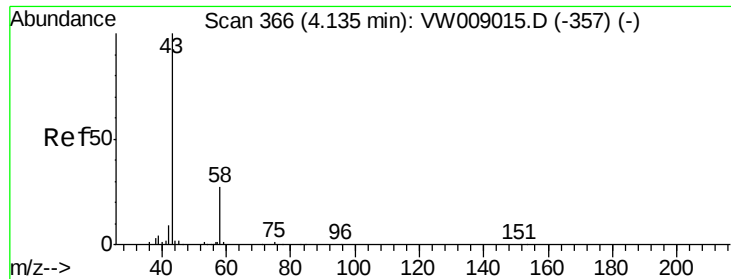
55 33.9 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

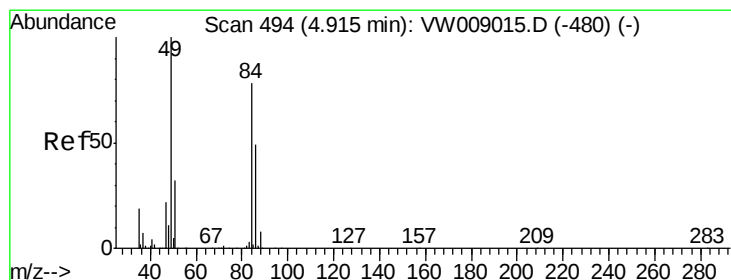
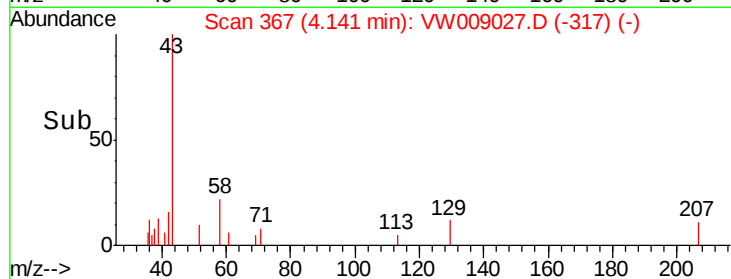
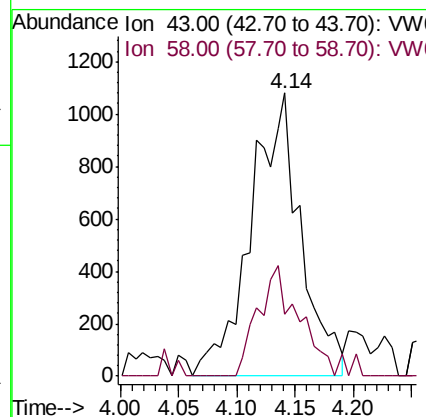
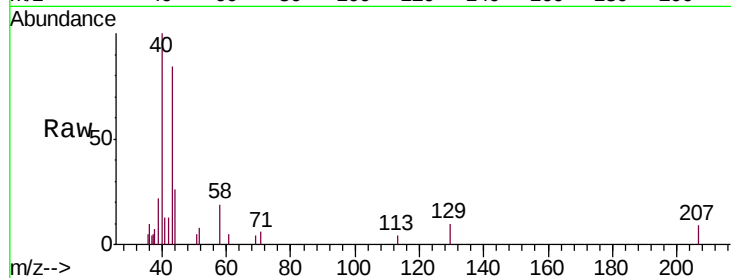




#16
Acetone
Concen: 52.793 ug/l
RT: 4.14 min Scan# 367
Delta R.T. 0.01 min
Lab File: VW009027.D
Acq: 06 Mar 2019 20:37

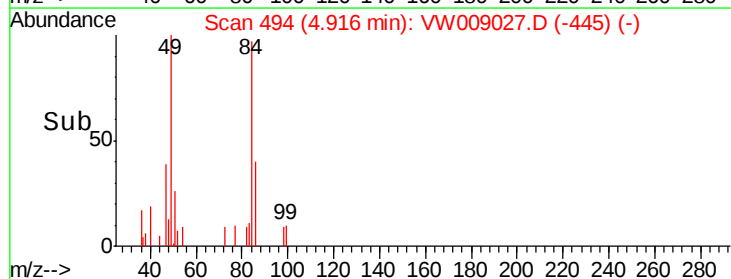
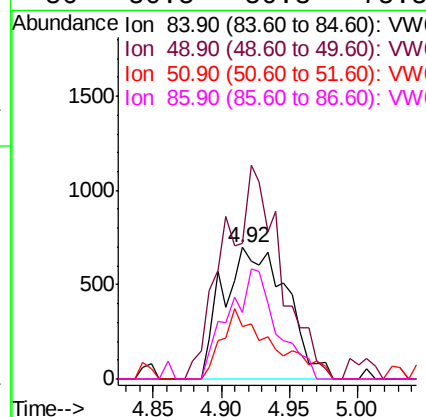
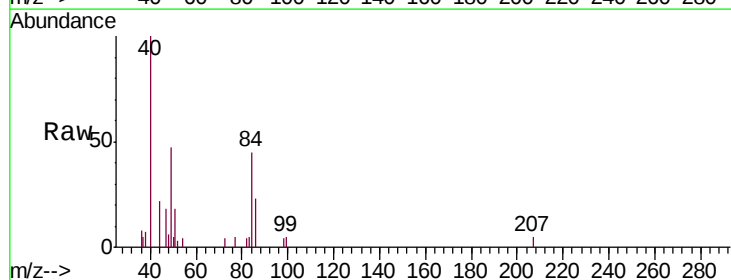
Instrument :
MSVOA_W
ClientSampleId :
Z2-9

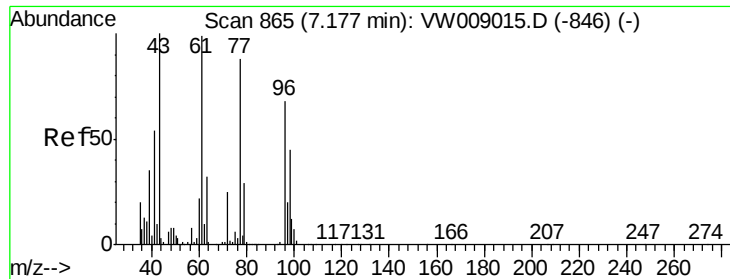
Tgt Ion: 43 Resp: 3221
Ion Ratio Lower Upper
43 100
58 22.1 21.6 32.4



#20
Methylene Chloride
Concen: 5.470 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009027.D
Acq: 06 Mar 2019 20:37

Tgt Ion: 84 Resp: 2284
Ion Ratio Lower Upper
84 100
49 103.4 102.8 154.2
51 40.1 32.4 48.6
86 50.5 50.3 75.5





#25

2-Butanone

Concen: 1.394 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Instrument :

MSVOA_W

ClientSampled :

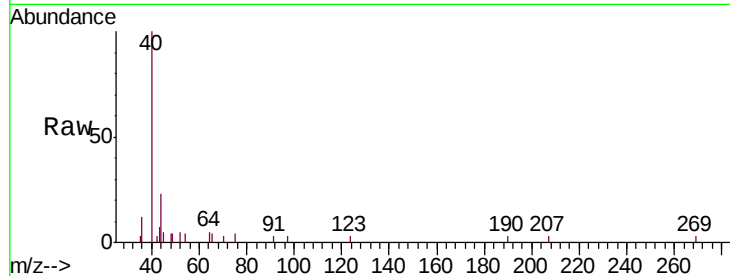
Z2-9

Tgt Ion: 43 Resp: 121

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#

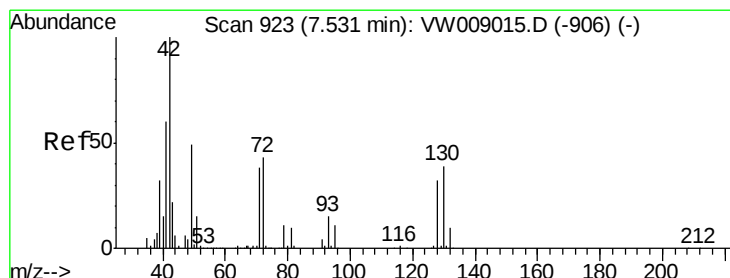
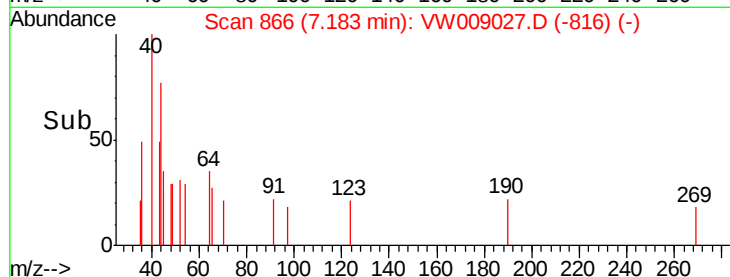
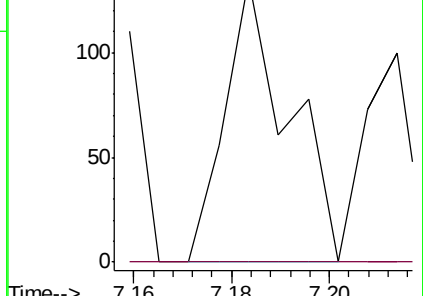


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.18

7.20



#29

Tetrahydrofuran

Concen: 1.174 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

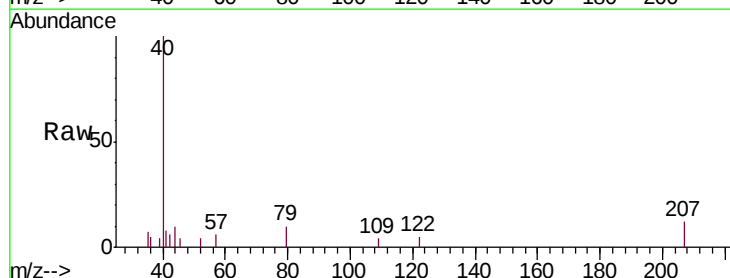
Tgt Ion: 42 Resp: 64

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

71 0.0 31.6 47.4#



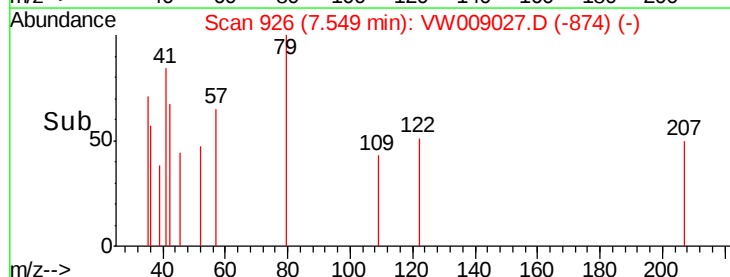
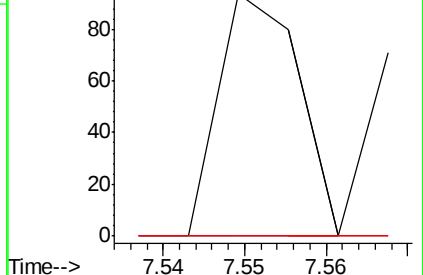
Abundance Ion 42.00 (41.70 to 42.70): VW

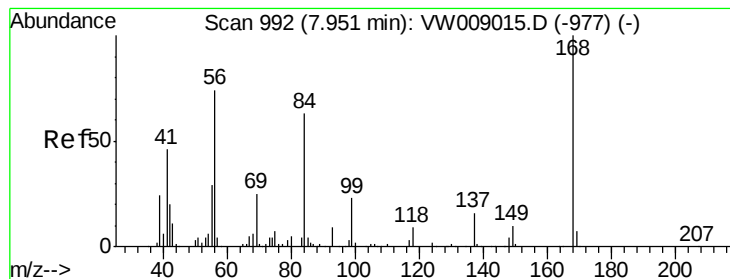
Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

7.55

7.56





#31

Cyclohexane

Concen: 1.622 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Instrument :

MSVOA_W

ClientSampled :

Z2-9

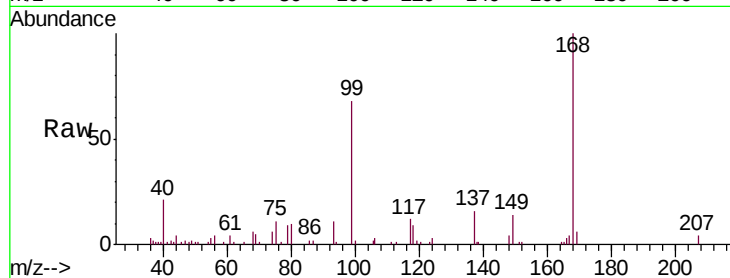
Tgt Ion: 56 Resp: 866

Ion Ratio Lower Upper

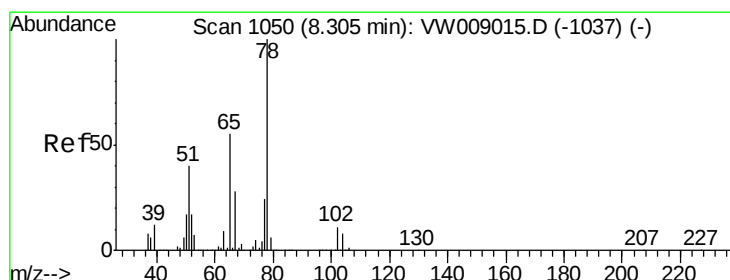
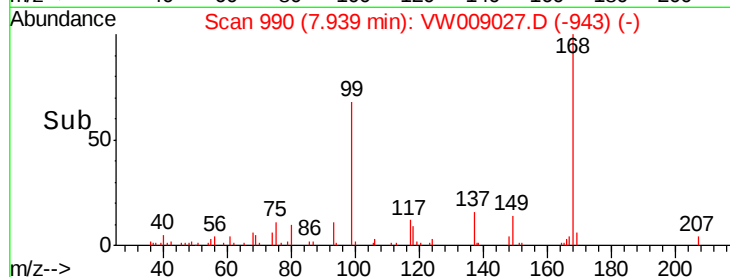
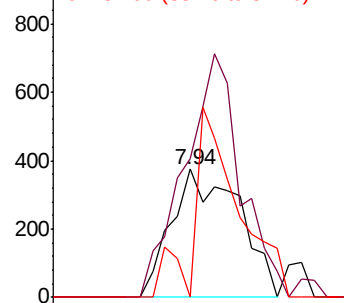
56 100

69 108.3 27.0 40.4#

84 0.0 68.3 102.5#



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: 56.189 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009027.D

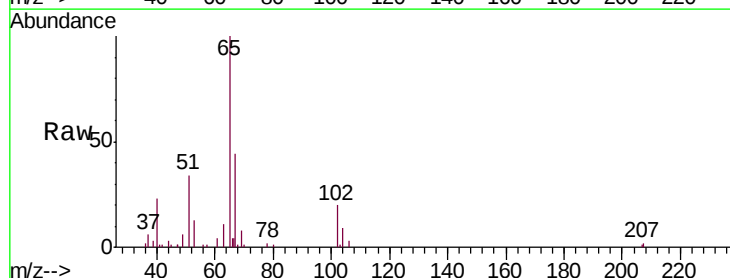
Acq: 06 Mar 2019 20:37

Tgt Ion: 65 Resp: 16691

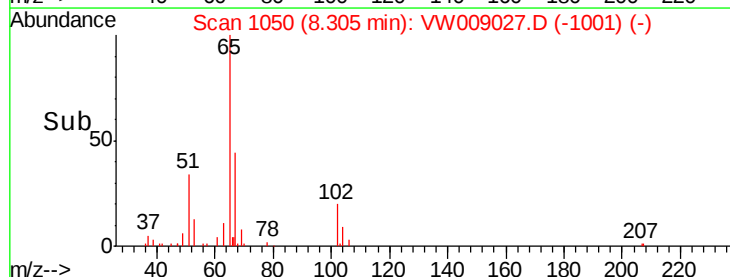
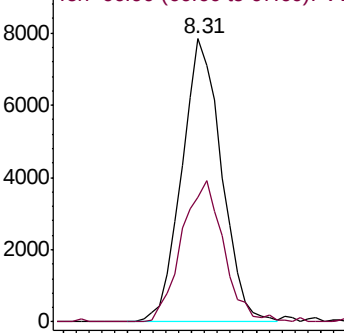
Ion Ratio Lower Upper

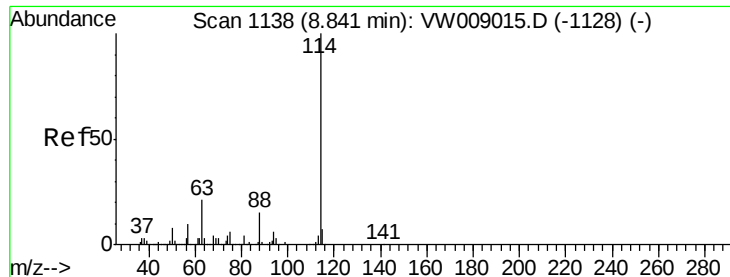
65 100

67 53.0 0.0 102.2



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

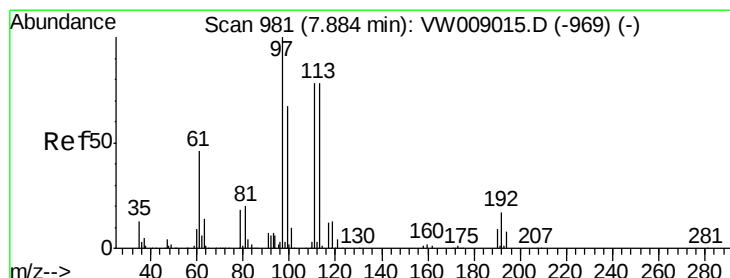
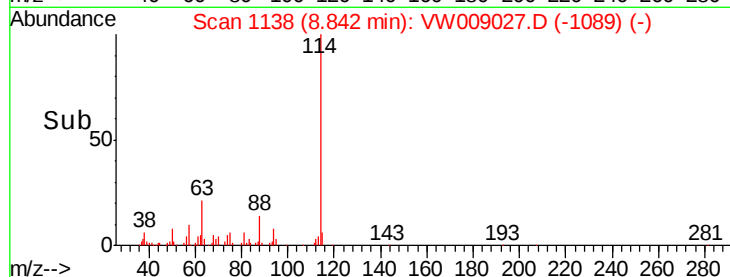
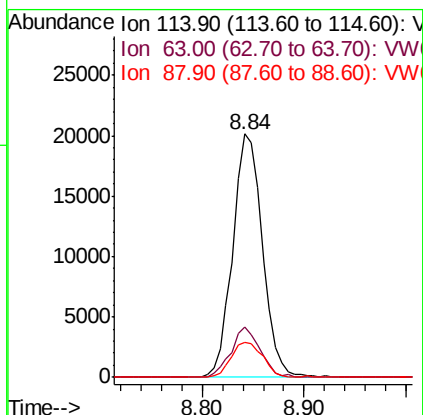
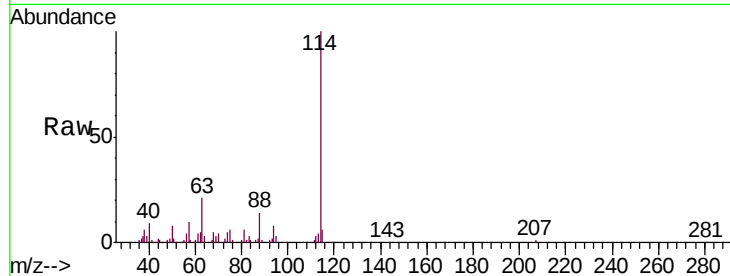




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW009027.D
 Acq: 06 Mar 2019 20:37

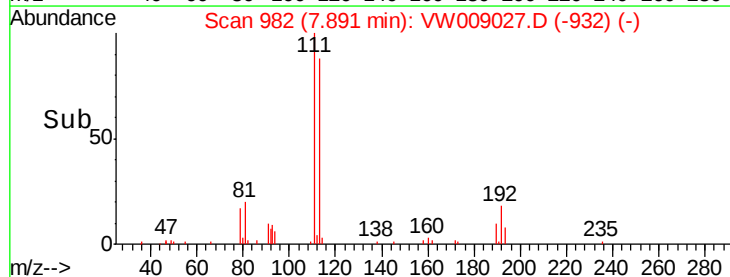
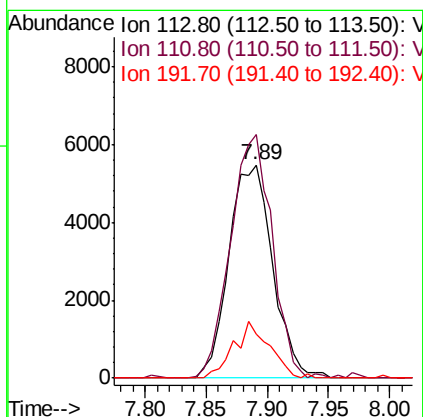
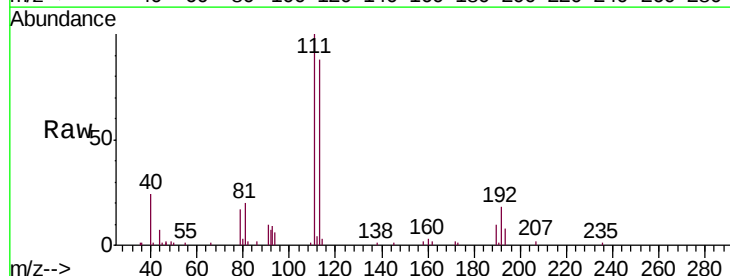
Instrument :
 MSVOA_W
 ClientSampled :
 Z2-9

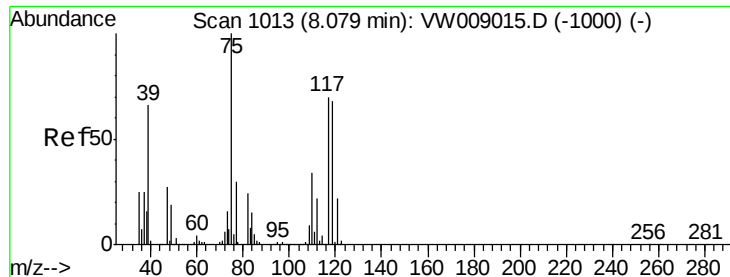
Tgt Ion:114 Resp: 40470
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.4
 88 14.5 0.0 30.8



#35
 Dibromofluoromethane
 Concen: 55.848 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW009027.D
 Acq: 06 Mar 2019 20:37

Tgt Ion:113 Resp: 13606
 Ion Ratio Lower Upper
 113 100
 111 108.9 80.5 120.7
 192 21.5 16.7 25.1

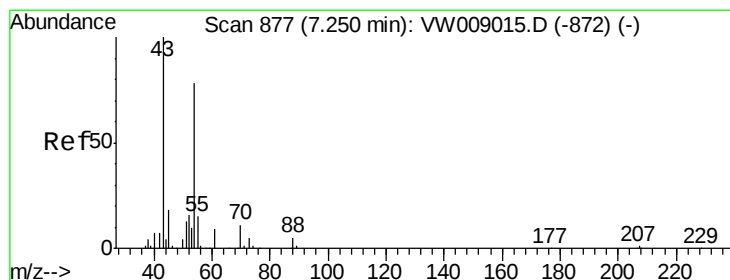
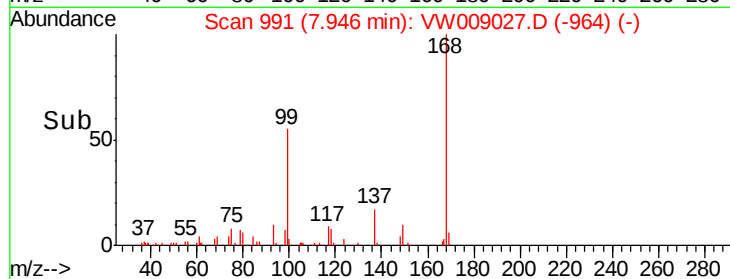
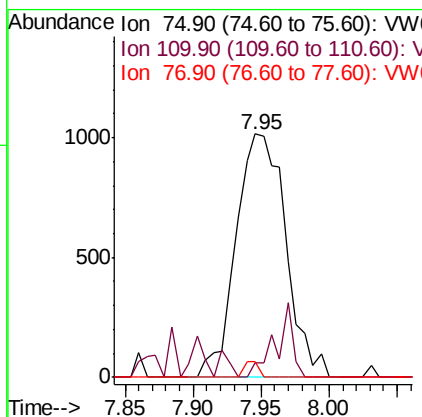
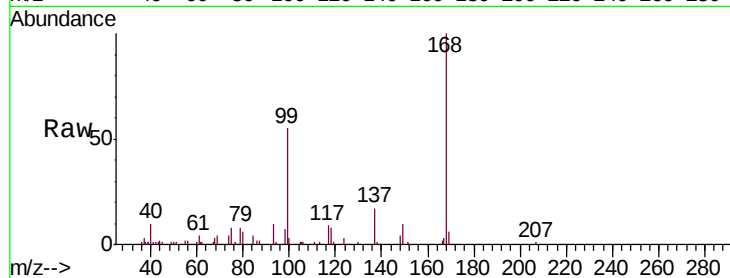




#36
 1,1-Dichloropropene
 Concen: 6.451 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW009027.D
 Acq: 06 Mar 2019 20:37

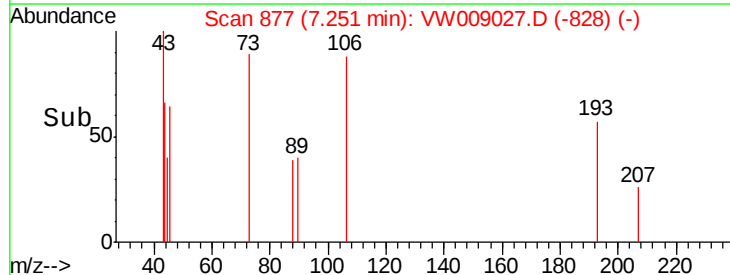
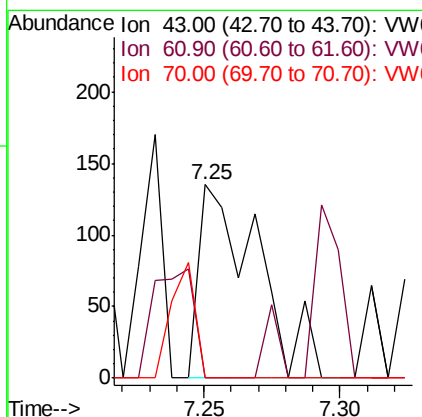
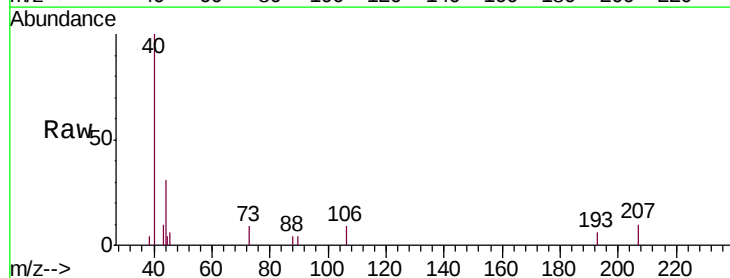
Instrument :
 MSVOA_W
 ClientSampleId :
 Z2-9

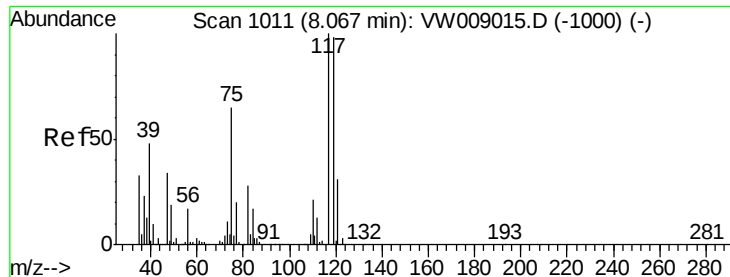
Tgt Ion: 75 Resp: 2596
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.3 51.9#
 77 1.8 24.8 37.2#



#37
 Ethyl Acetate
 Concen: 1.135 ug/l
 RT: 7.25 min Scan# 877
 Delta R.T. 0.00 min
 Lab File: VW009027.D
 Acq: 06 Mar 2019 20:37

Tgt Ion: 43 Resp: 202
 Ion Ratio Lower Upper
 43 100
 61 38.6 10.6 15.8#
 70 0.0 7.8 11.8#





#38

Carbon Tetrachloride

Concen: 7.055 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Instrument :

MSVOA_W

ClientSampled :

Z2-9

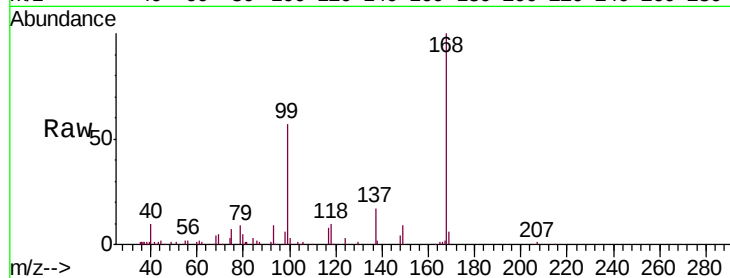
Tgt Ion:117 Resp: 2938

Ion Ratio Lower Upper

117 100

119 9.3 78.4 117.6#

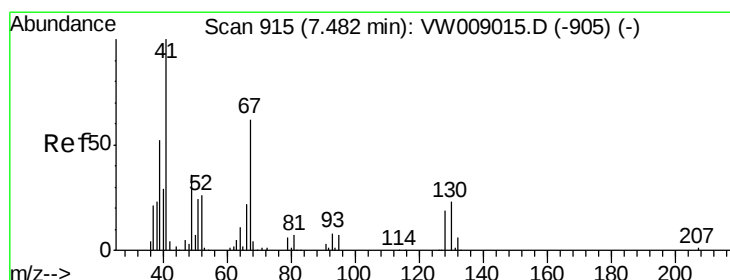
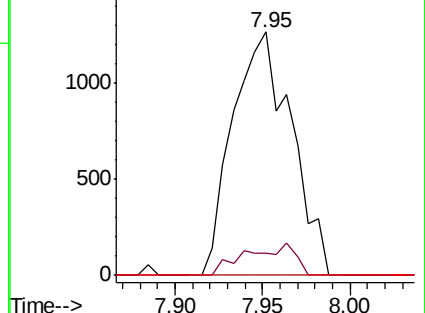
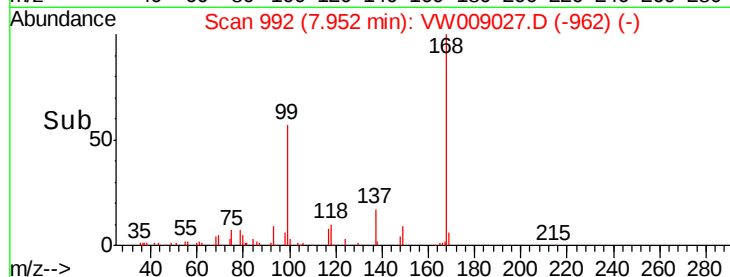
121 0.0 24.7 37.1#



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: 1.999 ug/l

RT: 7.48 min Scan# 914

Delta R.T. -0.01 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Tgt Ion: 41 Resp: 211

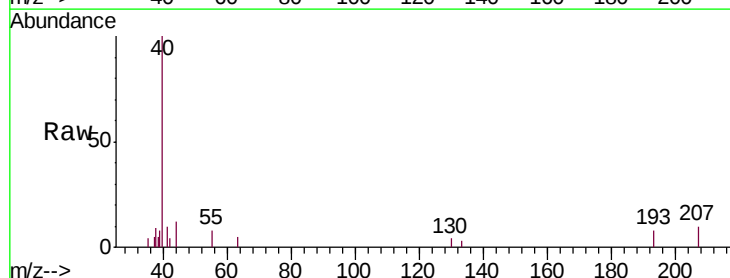
Ion Ratio Lower Upper

41 100

39 140.3 50.6 75.8#

67 0.0 59.0 88.6#

52 0.0 26.6 39.8#

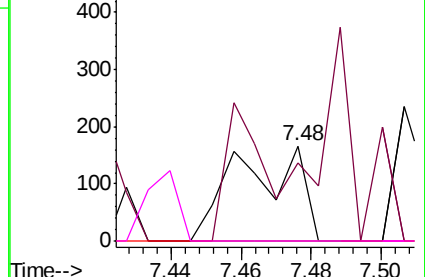
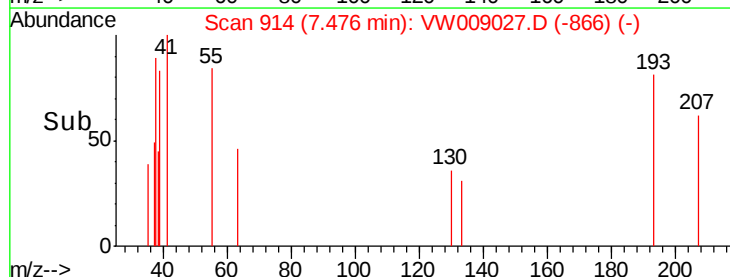


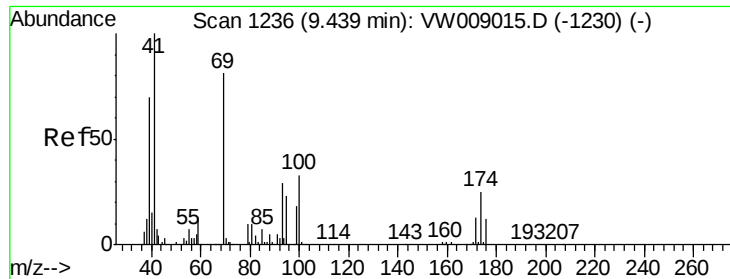
Abundance Ion 41.00 (40.70 to 41.70): VW

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

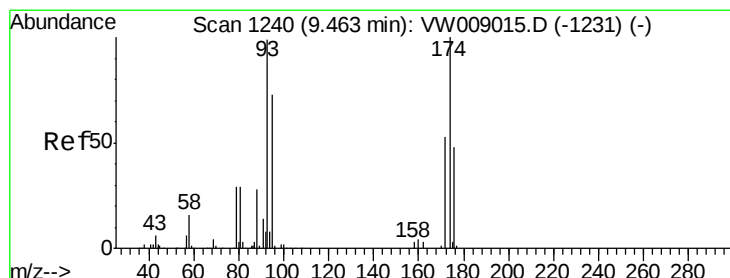
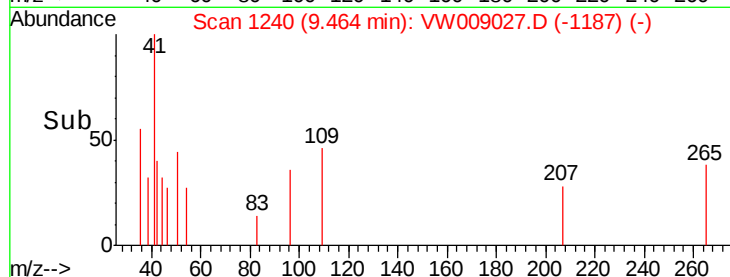
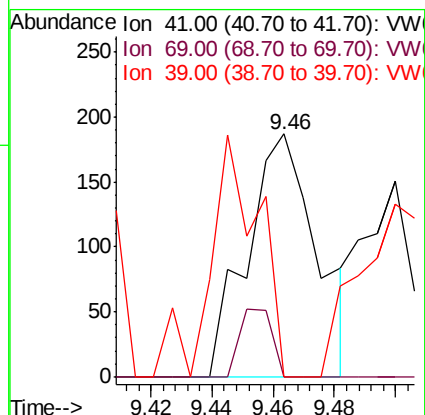
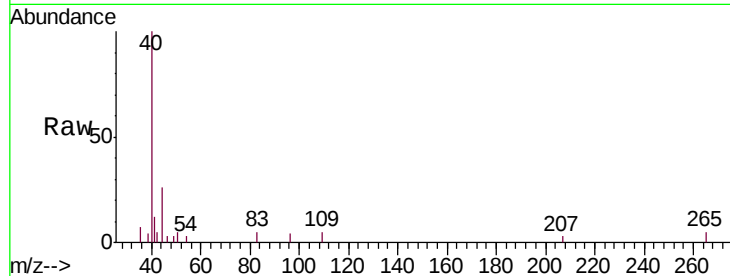




#48
Methyl methacrylate
Concen: 1.790 ug/l
RT: 9.46 min Scan# 1240
Delta R.T. 0.02 min
Lab File: VW009027.D
Acq: 06 Mar 2019 20:37

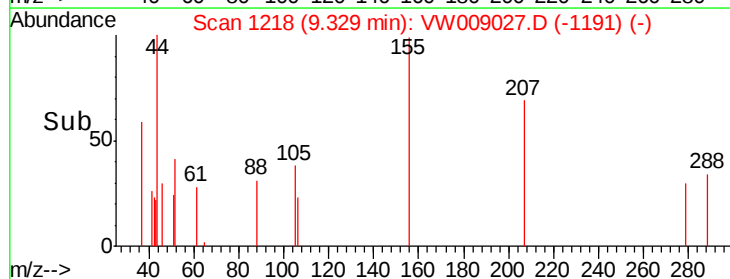
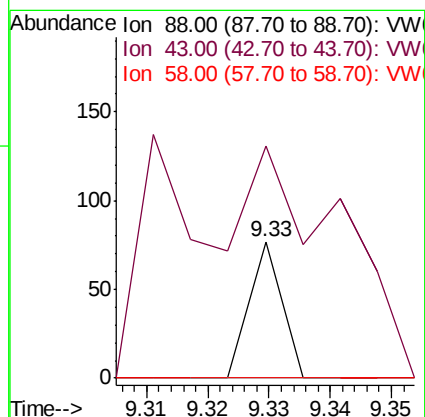
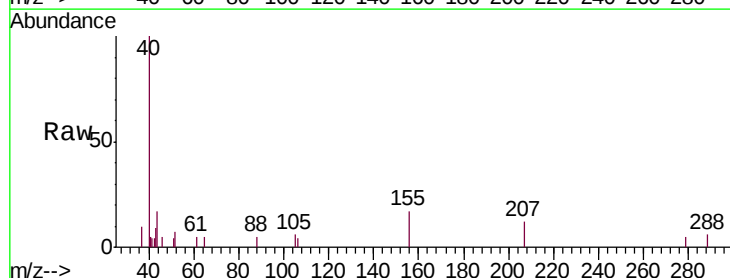
Instrument :
MSVOA_W
ClientSampled :
Z2-9

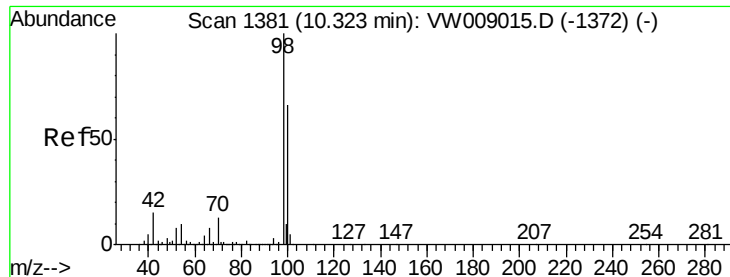
Tgt Ion: 41 Resp: 296
Ion Ratio Lower Upper
41 100
69 12.8 61.8 92.6#
39 69.3 50.5 75.7



#49
1,4-Dioxane
Concen: 13.798 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.13 min
Lab File: VW009027.D
Acq: 06 Mar 2019 20:37

Tgt Ion: 88 Resp: 28
Ion Ratio Lower Upper
88 100
43 478.6 0.0 0.0#
58 0.0 55.0 82.6#





#50

Toluene-d8

Concen: 47.430 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Instrument :

MSVOA_W

ClientSampleId :

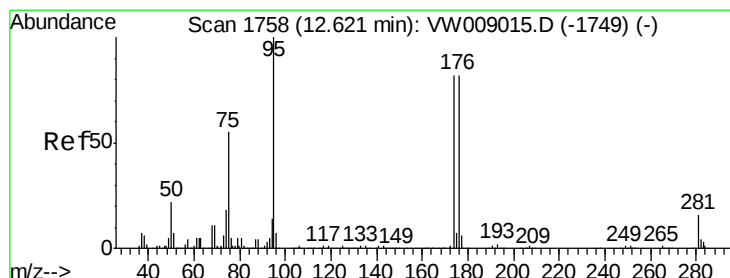
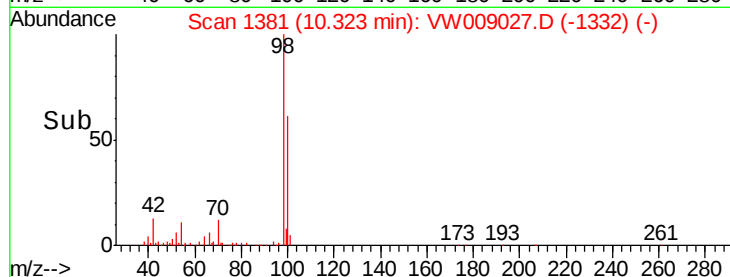
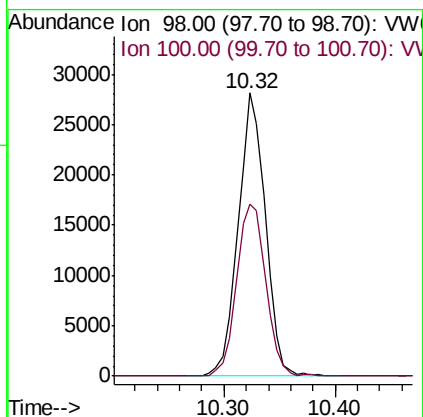
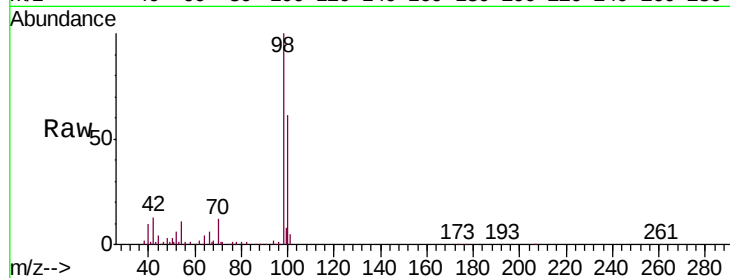
Z2-9

Tgt Ion: 98 Resp: 47485

Ion Ratio Lower Upper

98 100

100 64.9 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 33.648 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

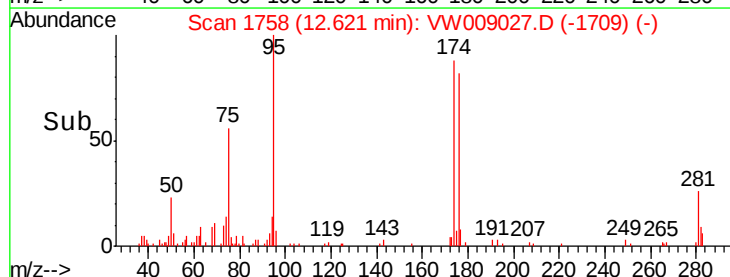
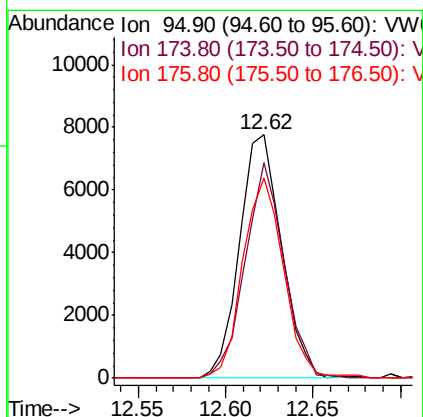
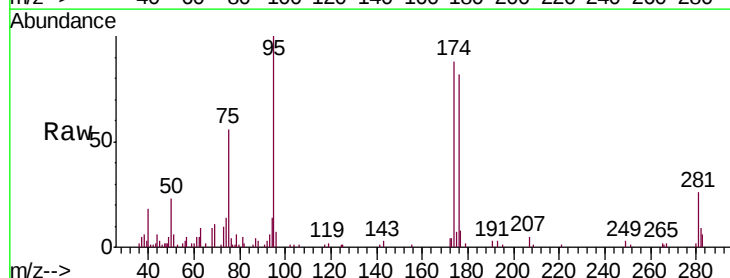
Tgt Ion: 95 Resp: 13010

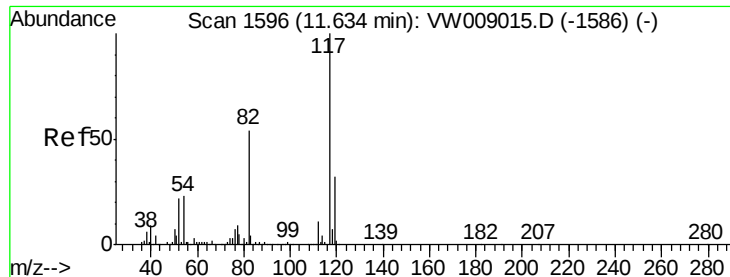
Ion Ratio Lower Upper

95 100

174 82.0 0.0 165.8

176 79.7 0.0 159.8

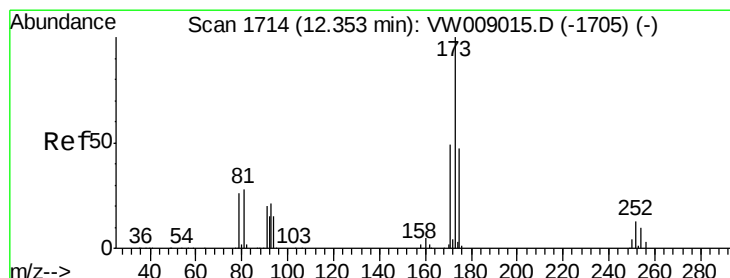
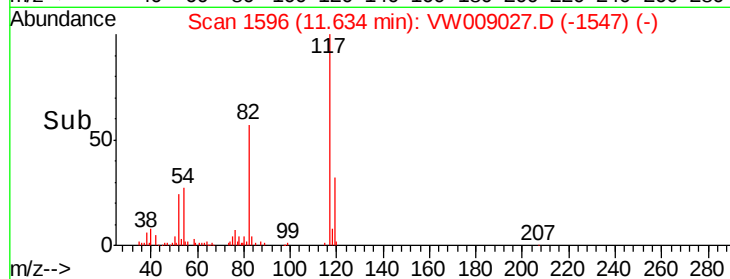
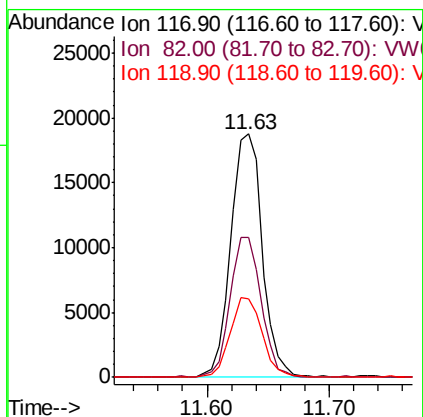
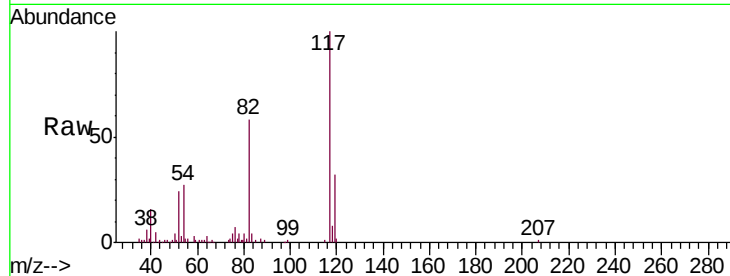




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009027.D
Acq: 06 Mar 2019 20:37

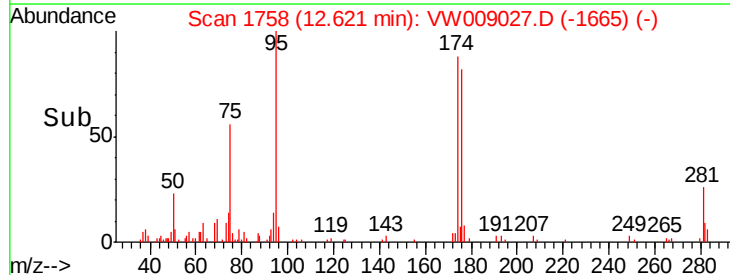
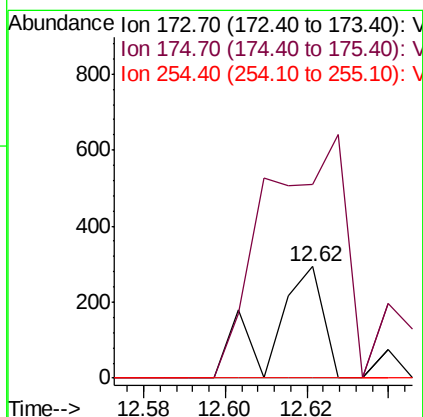
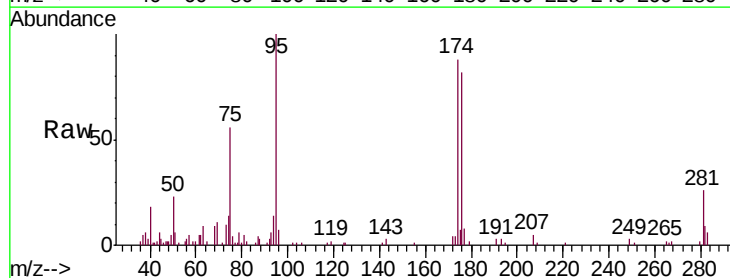
Instrument :
MSVOA_W
ClientSampleId :
Z2-9

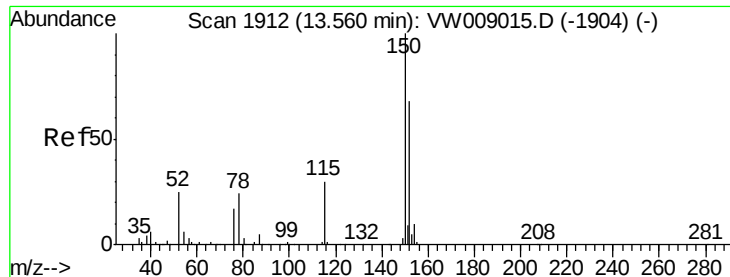
Tgt Ion:117 Resp: 33316
Ion Ratio Lower Upper
117 100
82 57.6 43.4 65.2
119 32.1 25.8 38.8



#71
Bromoform
Concen: 2.037 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.27 min
Lab File: VW009027.D
Acq: 06 Mar 2019 20:37

Tgt Ion:173 Resp: 252
Ion Ratio Lower Upper
173 100
175 248.8 23.3 69.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Instrument :

MSVOA_W

ClientSampled :

Z2-9

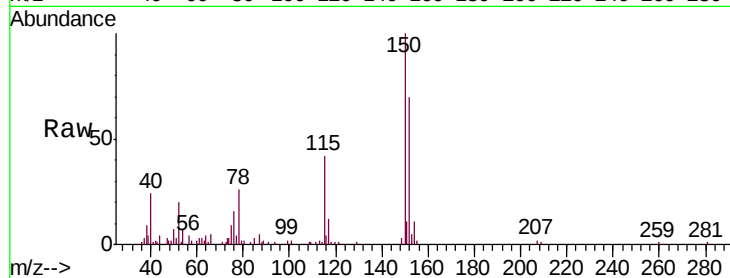
Tgt Ion:152 Resp: 11112

Ion Ratio Lower Upper

152 100

115 57.3 29.3 87.8

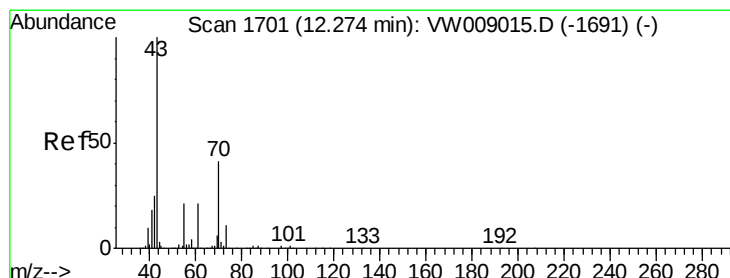
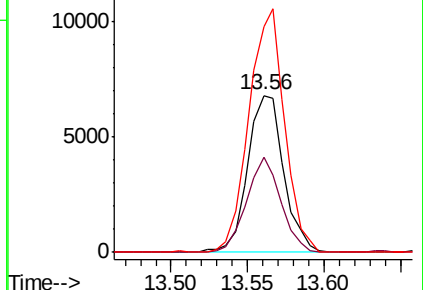
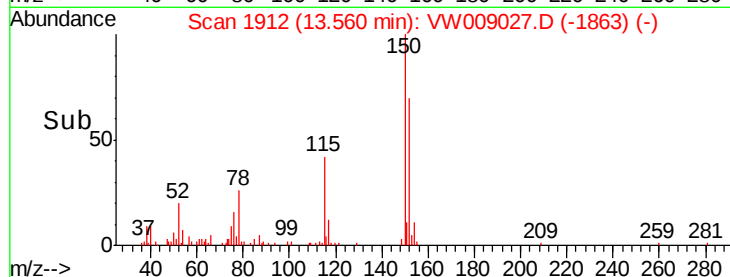
150 153.0 0.0 348.6



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: 4.833 ug/l

RT: 12.28 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Tgt Ion: 43 Resp: 136

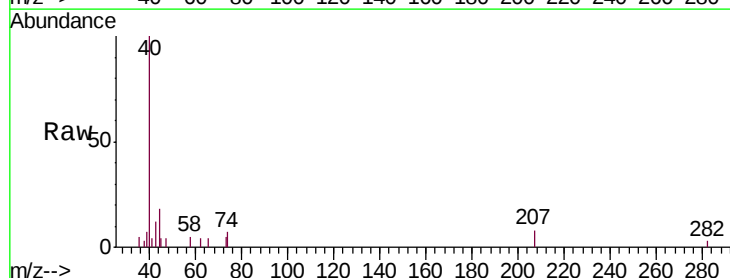
Ion Ratio Lower Upper

43 100

70 0.0 31.2 46.8#

55 52.9 18.0 27.0#

61 0.0 17.3 25.9#

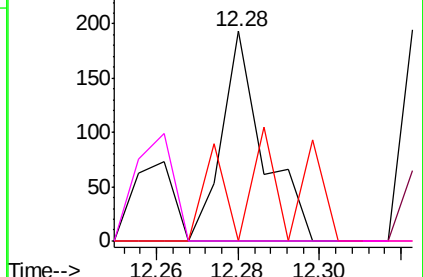
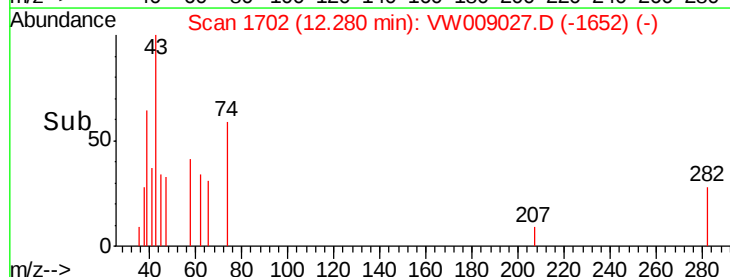


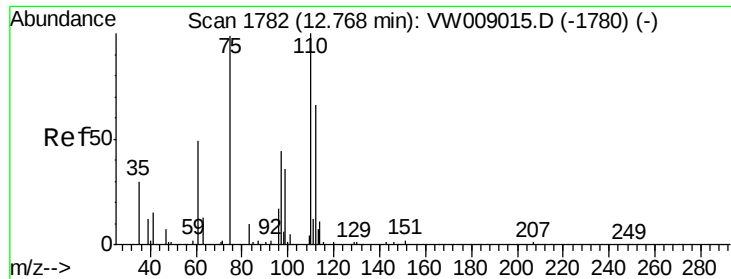
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#76

1,2,3-Trichloropropane

Concen: 75.418 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Instrument :

MSVOA_W

ClientSampleId :

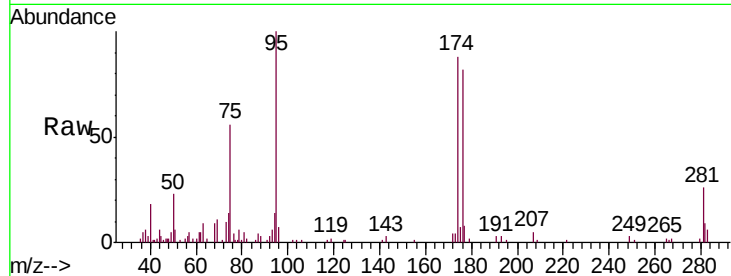
Z2-9

Tgt Ion: 75 Resp: 6642

Ion Ratio Lower Upper

75 100

77 2.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

5000

4000

3000

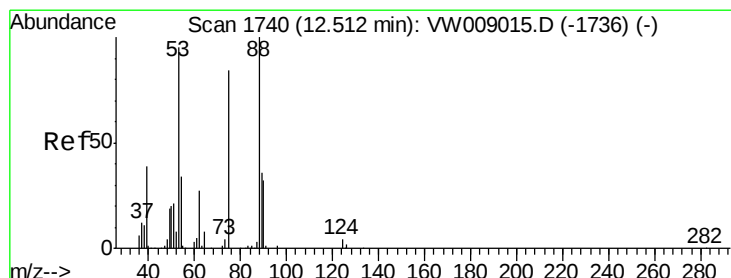
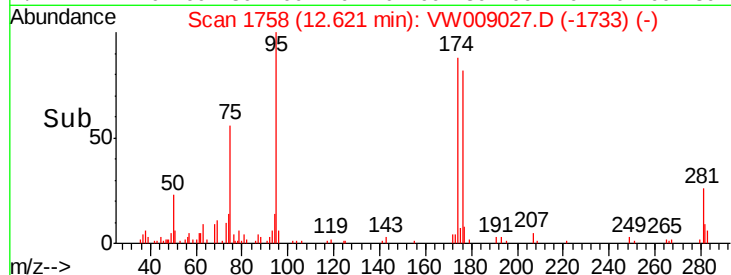
2000

1000

0

Time-->

12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 152.562 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

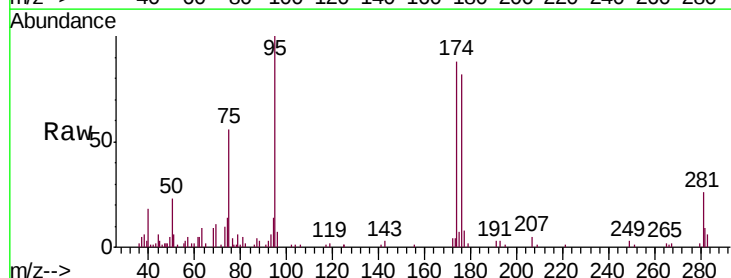
Tgt Ion: 75 Resp: 6642

Ion Ratio Lower Upper

75 100

53 1.9 88.5 132.7#

89 0.3 36.3 54.5#



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

12.62

6000

5000

4000

3000

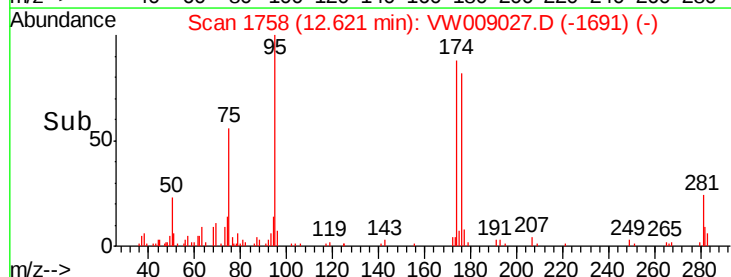
2000

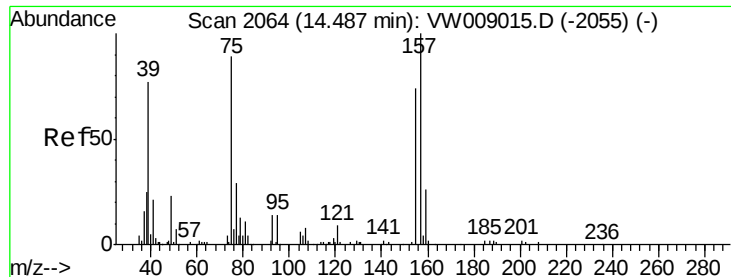
1000

0

Time-->

12.55 12.60 12.65 12.70





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.090 ug/l

RT: 14.52 min Scan# 2069

Delta R.T. 0.03 min

Lab File: VW009027.D

Acq: 06 Mar 2019 20:37

Instrument :

MSVOA_W

ClientSampleId :

Z2-9

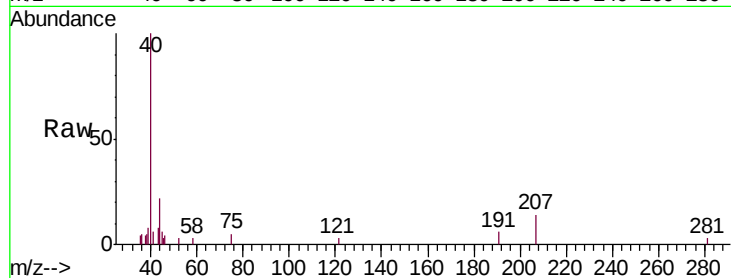
Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

155 40.3 41.4 124.4#

157 0.0 53.1 159.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

