

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061919\
 Data File : VW010858.D
 Acq On : 19 Jun 2019 18:40
 Operator : SY/VA
 Sample : K3421-01
 Misc : 5.67G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SAMPLE-1

Quant Time: Jun 20 05:49:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 05 03:21:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	258302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	443775	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	395873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	173090	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	165612	54.40	ug/l	0.00
Spiked Amount			Recovery	=	108.80%	
35) Dibromofluoromethane	7.88	113	118238	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
50) Toluene-d8	10.32	98	479095	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	
62) 4-Bromofluorobenzene	12.62	95	171987	44.75	ug/l	0.00
Spiked Amount			Recovery	=	89.50%	

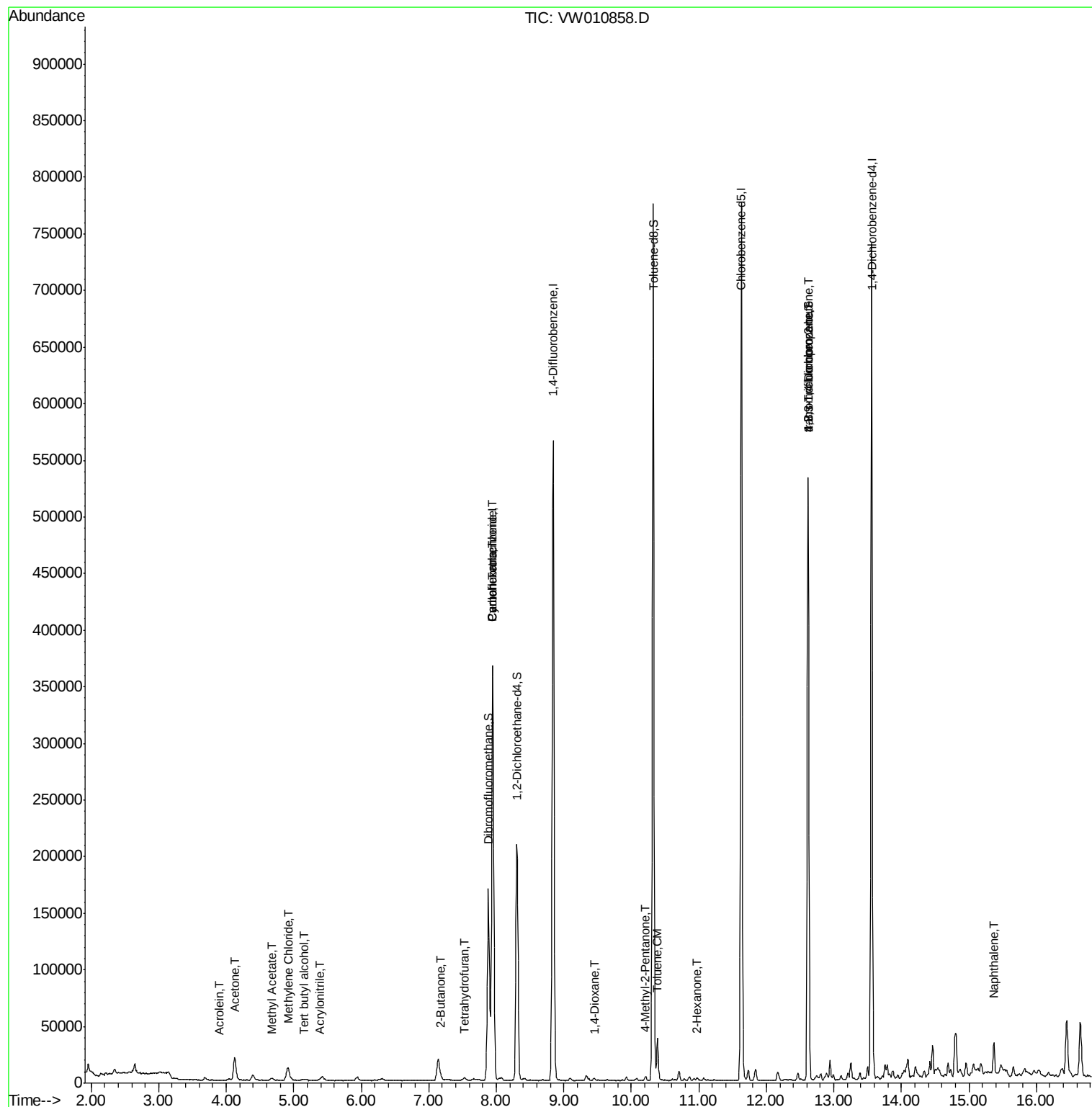
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	1170	4.717	ug/l	100
13) Acrolein	3.90	56	195	1.924	ug/l #	83
15) Acrylonitrile	5.38	53	1222	1.671	ug/l #	52
16) Acetone	4.12	43	36552	44.806	ug/l	99
18) Methyl Acetate	4.67	43	3277	1.866	ug/l #	90
20) Methylene Chloride	4.92	84	8113	2.835	ug/l	96
25) 2-Butanone	7.18	43	2089	1.847	ug/l #	83
29) Tetrahydrofuran	7.53	42	1955	2.748	ug/l	97
31) Cyclohexane	7.95	56	8599	1.400	ug/l #	10
38) Carbon Tetrachloride	7.95	117	27194	6.935	ug/l #	16
49) 1,4-Dioxane	9.45	88	174	7.304	ug/l #	23
51) 4-Methyl-2-Pentanone	10.21	43	3209	1.292	ug/l	93
52) Toluene	10.39	92	14613	1.917	ug/l	97
59) 2-Hexanone	10.97	43	2096	1.167	ug/l	82
76) 1,2,3-Trichloropropane	12.62	75	95272	52.414	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	95272	120.465	ug/l #	5
95) Naphthalene	15.37	128	23791	3.790	ug/l	99

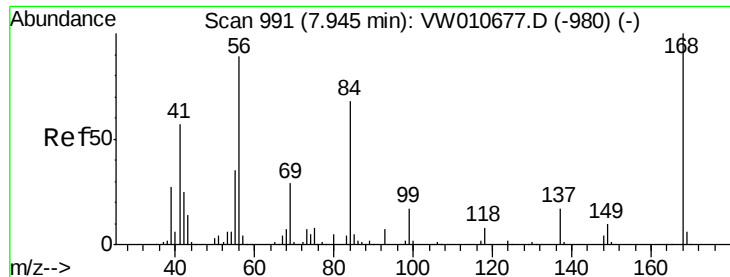
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW061919\
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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: VW010858.D

Acq: 19 Jun 2019 18:40

Instrument :

MSVOA_W

ClientSampleId :

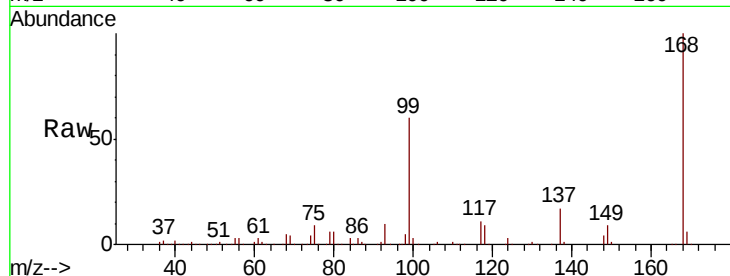
SAMPLE-1

Tot Ion:168 Resp: 258302

Ion Ratio Lower Upper

168 100

99 60.0 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

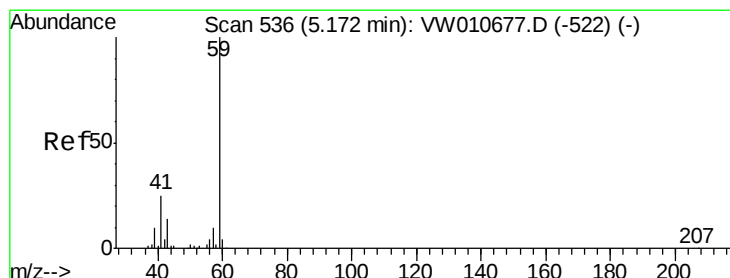
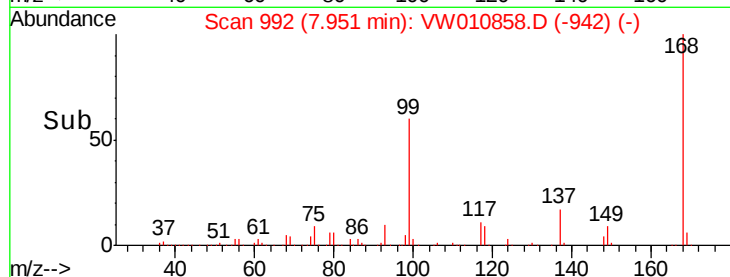
7.95

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.717 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW010858.D

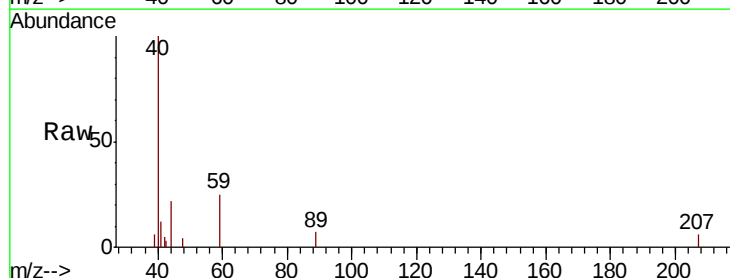
Acq: 19 Jun 2019 18:40

Tgt Ion: 59 Resp: 1170

Ion Ratio Lower Upper

59 100

57 10.6 8.6 12.8



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

500

400

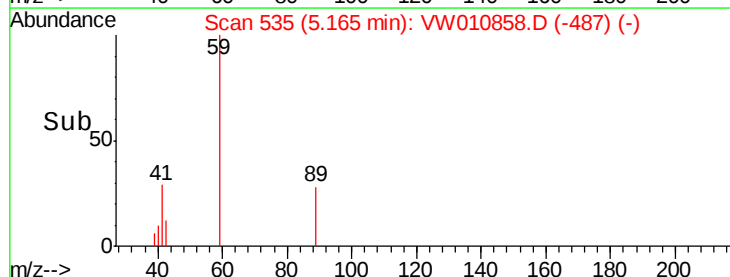
300

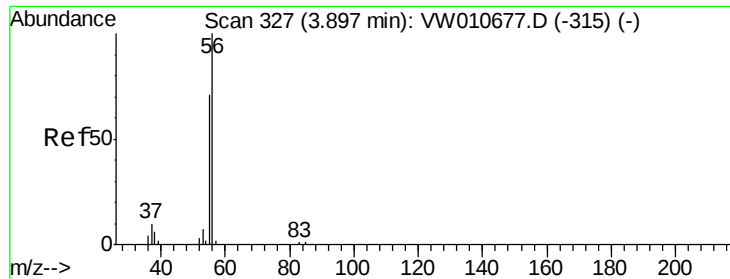
200

100

0

Time-->





#13

Acrolein

Concen: 1.924 ug/l

RT: 3.90 min Scan# 327

Delta R.T. -0.00 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

Instrument :

MSVOA_W

ClientSampled :

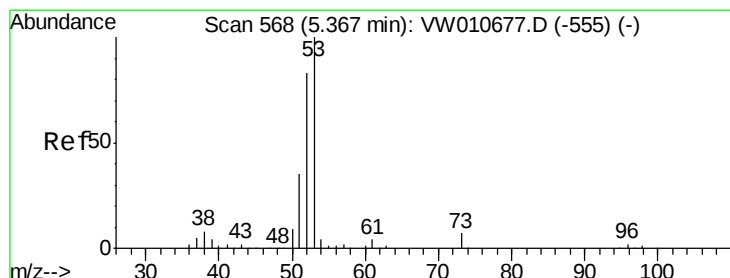
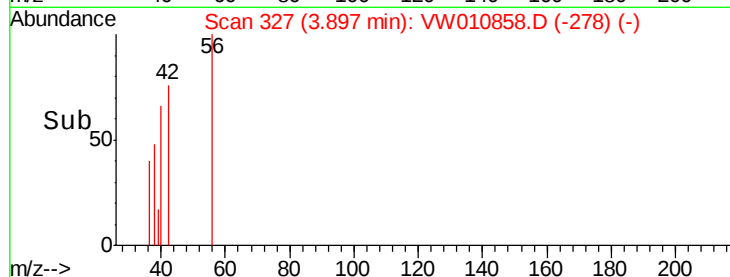
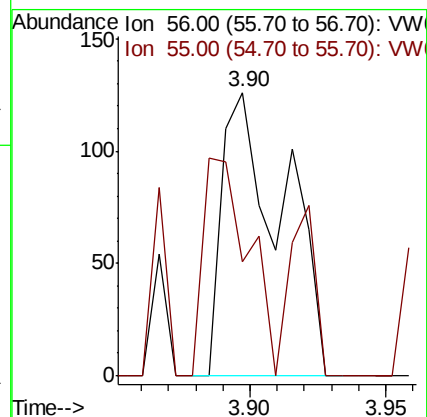
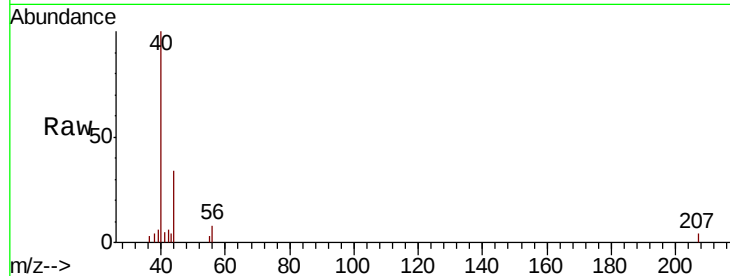
SAMPLE-1

Tot Ion: 56 Resp: 195

Ion Ratio Lower Upper

56 100

55 57.4 57.6 86.4#



#15

Acrylonitrile

Concen: 1.671 ug/l

RT: 5.38 min Scan# 571

Delta R.T. 0.02 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

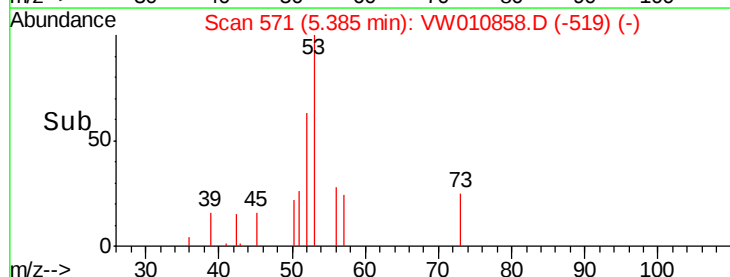
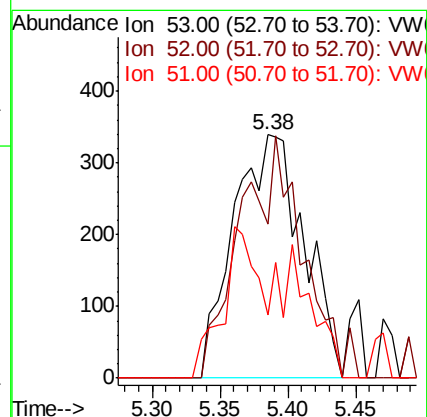
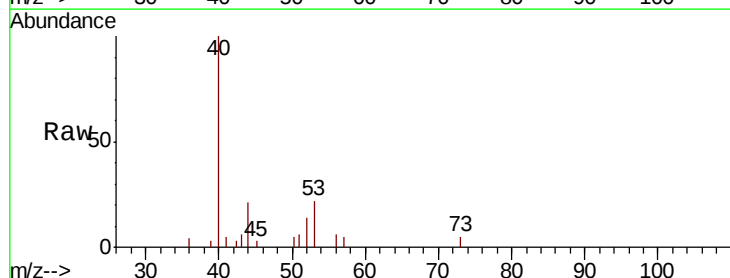
Tgt Ion: 53 Resp: 1222

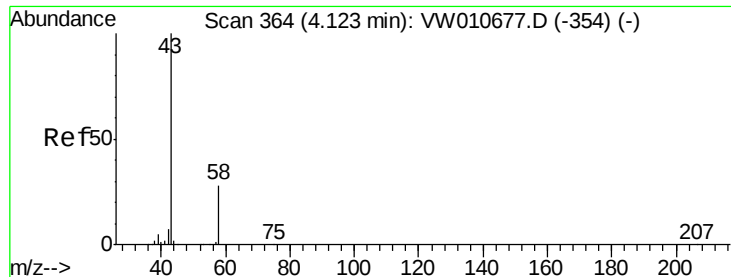
Ion Ratio Lower Upper

53 100

52 45.7 66.6 100.0#

51 0.0 29.8 44.8#





#16

Acetone

Concen: 44.806 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

Instrument :

MSVOA_W

ClientSampleId :

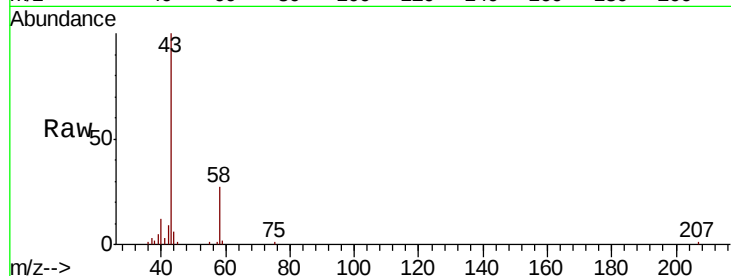
SAMPLE-1

Tot Ion: 43 Resp: 36552

Ion Ratio Lower Upper

43 100

58 27.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

15000

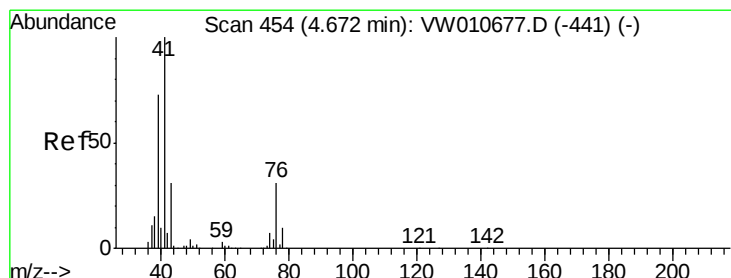
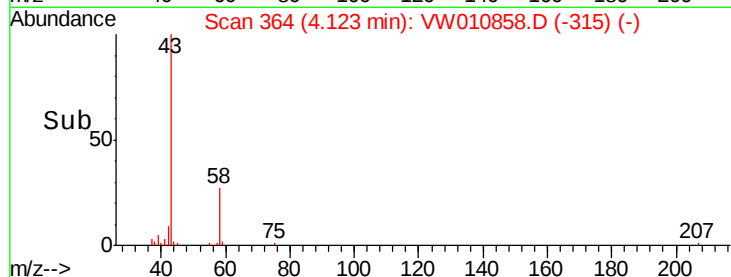
10000

5000

0

4.00 4.10 4.20

Time-->



#18

Methyl Acetate

Concen: 1.866 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW010858.D

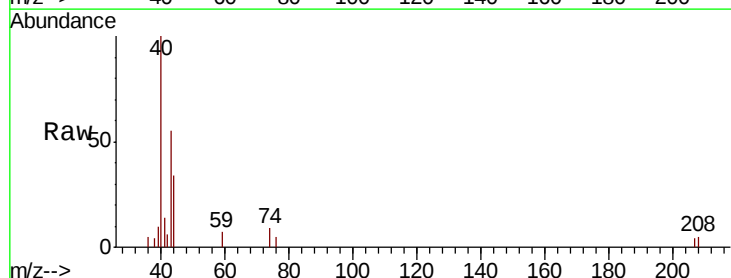
Acq: 19 Jun 2019 18:40

Tgt Ion: 43 Resp: 3277

Ion Ratio Lower Upper

43 100

74 16.4 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

1000

800

600

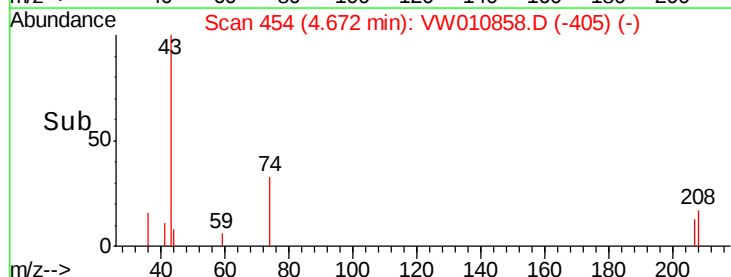
400

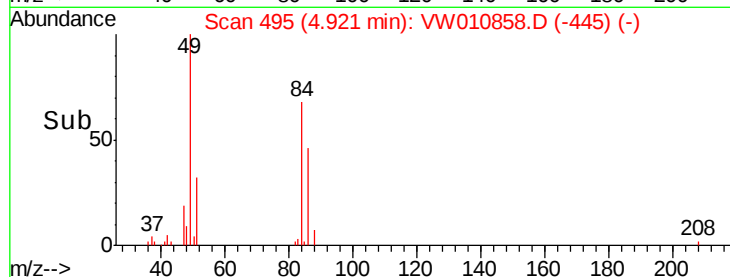
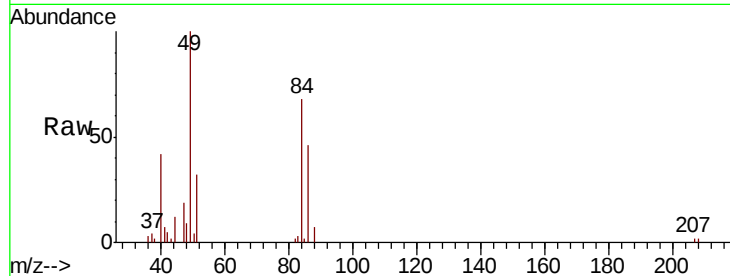
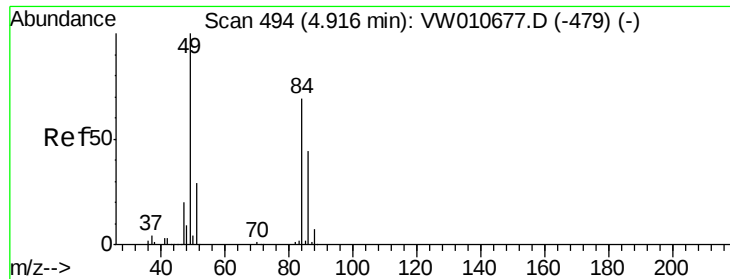
200

0

4.60 4.70 4.80

Time-->

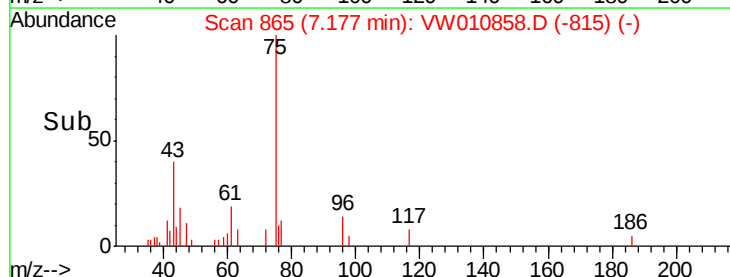
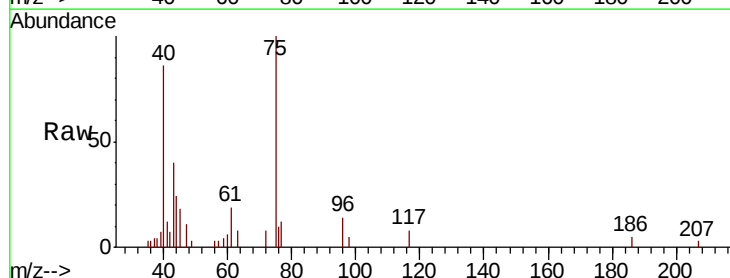
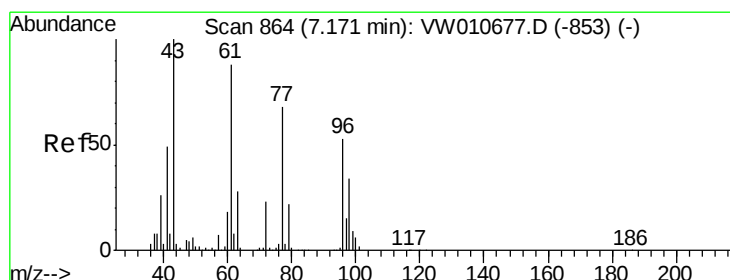
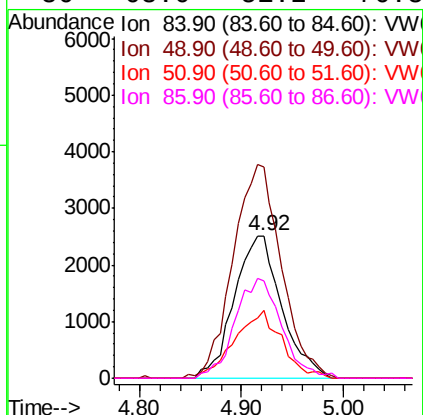




#20
Methvlene Chloride
Concen: 2.835 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW010858.D
Acq: 19 Jun 2019 18:40

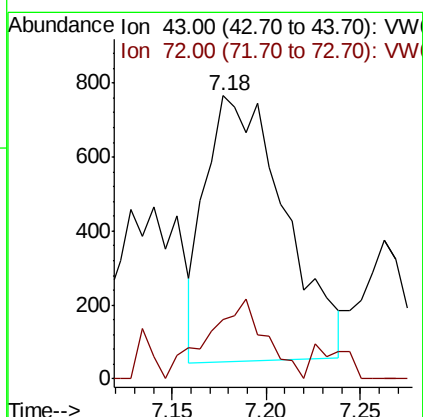
Instrument :
MSVOA_W
ClientSampleId :
SAMPLE-1

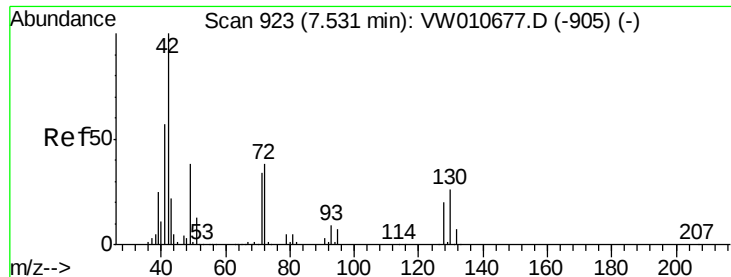
Tot Ion:	84	Resp:	8113
Ion	Ratio	Lower	Upper
84	100		
49	148.0	116.7	175.1
51	47.9	34.2	51.2
86	68.0	51.2	76.8



#25
2-Butanone
Concen: 1.847 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW010858.D
Acq: 19 Jun 2019 18:40

Tgt Ion:	43	Resp:	2089
Ion	Ratio	Lower	Upper
43	100		
72	14.5	18.1	27.1#

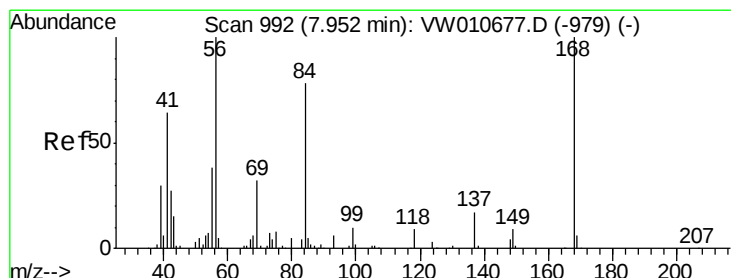
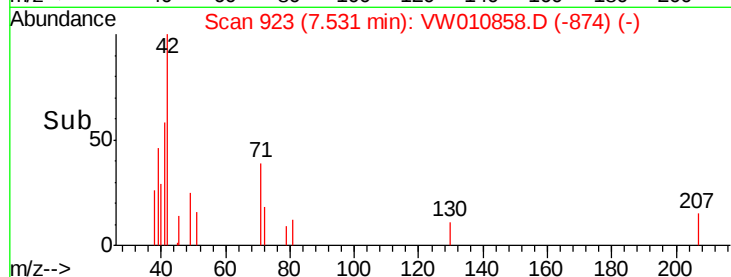
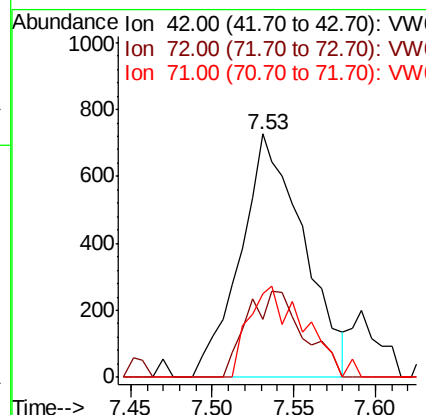
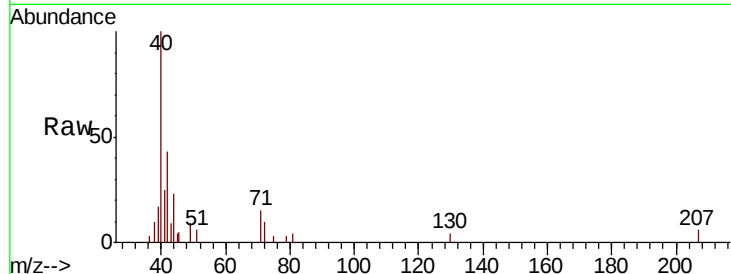




#29
Tetrahydrofuran
Concen: 2.748 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW010858.D
Acq: 19 Jun 2019 18:40

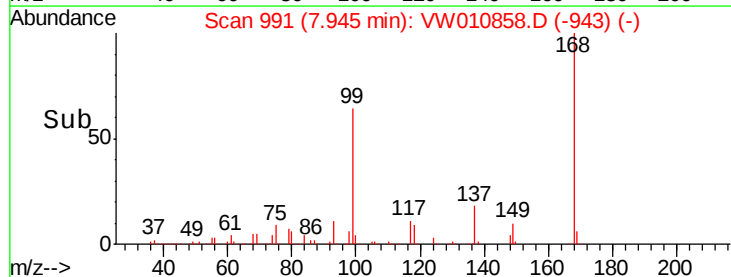
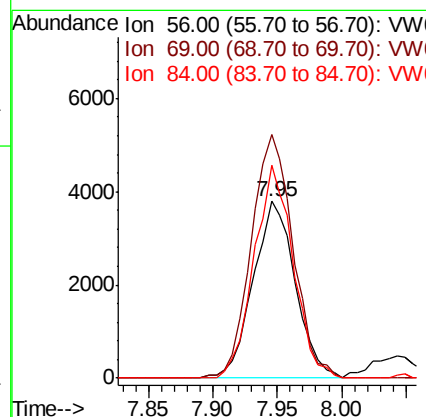
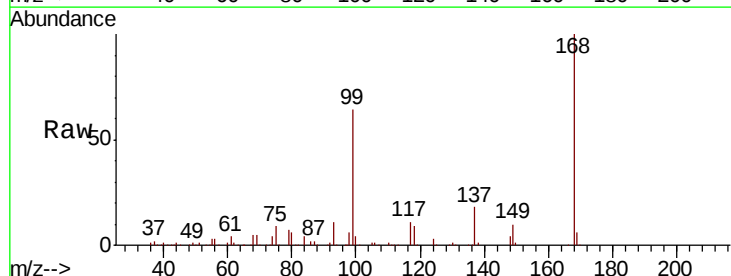
Instrument :
MSVOA_W
ClientSampled :
SAMPLE-1

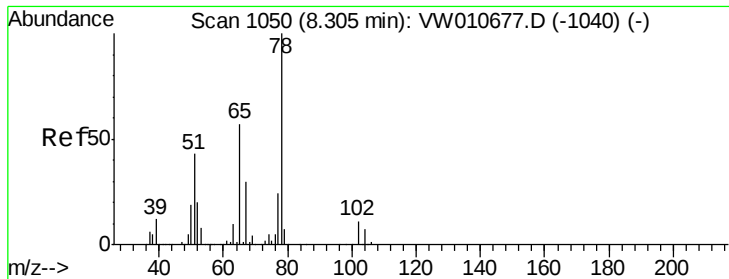
Tot Ion	Ratio	Lower	Upper
42	100		
72	32.1	28.7	43.1
71	33.3	26.6	39.8



#31
Cyclohexane
Concen: 1.400 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW010858.D
Acq: 19 Jun 2019 18:40

Tgt Ion	Ratio	Lower	Upper
56	100		
69	137.6	25.2	37.8#
84	120.7	62.2	93.2#





#33

1,2-Dichloroethane-d4

Concen: 54.397 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

Instrument :

MSVOA_W

ClientSampleId :

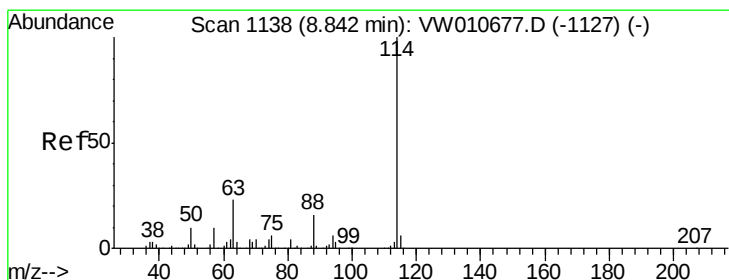
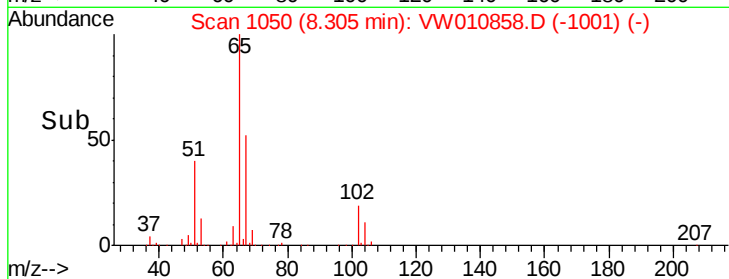
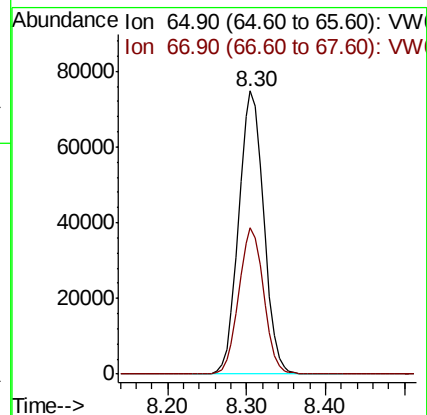
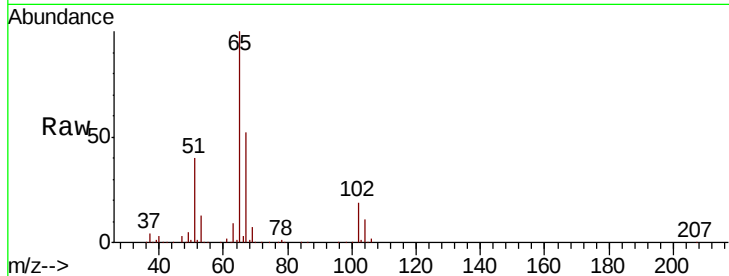
SAMPLE-1

Tot Ion: 65 Resp: 165612

Ion Ratio Lower Upper

65 100

67 51.3 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

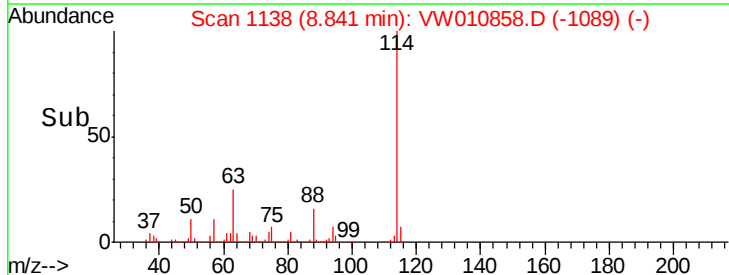
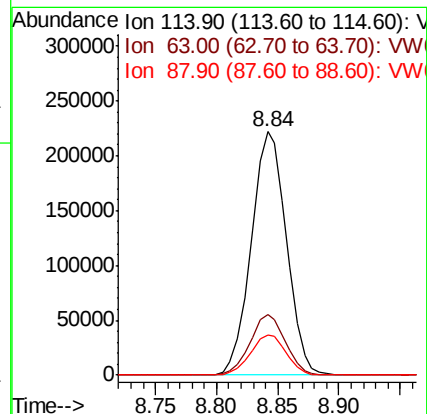
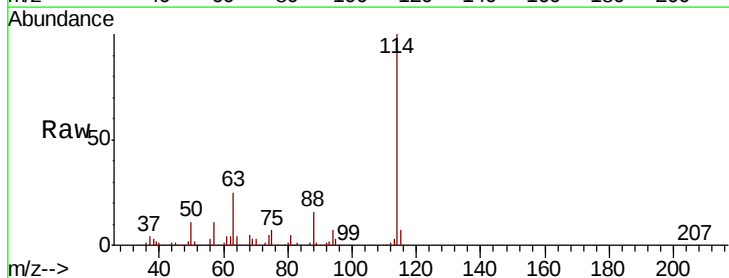
Tgt Ion: 114 Resp: 443775

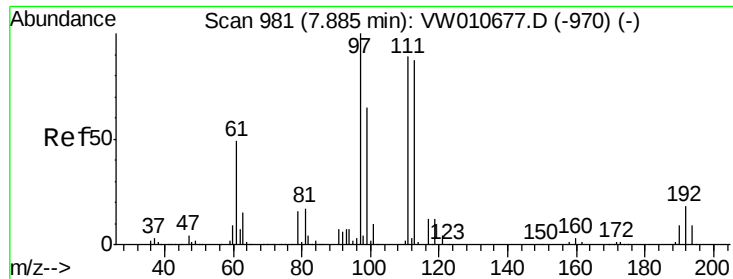
Ion Ratio Lower Upper

114 100

63 24.8 0.0 46.4

88 16.4 0.0 32.2

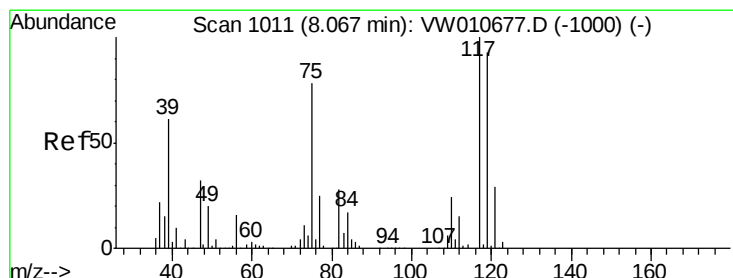
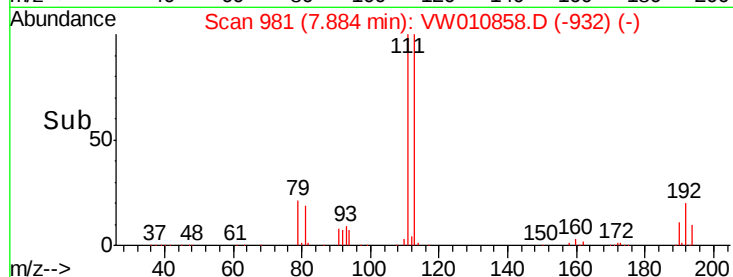
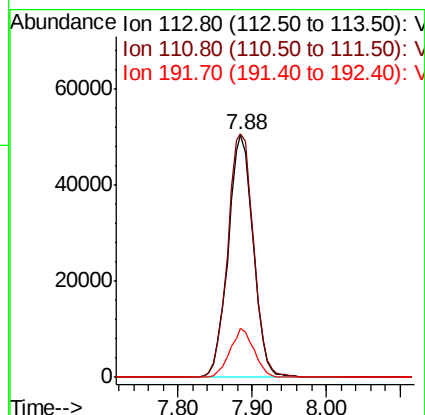
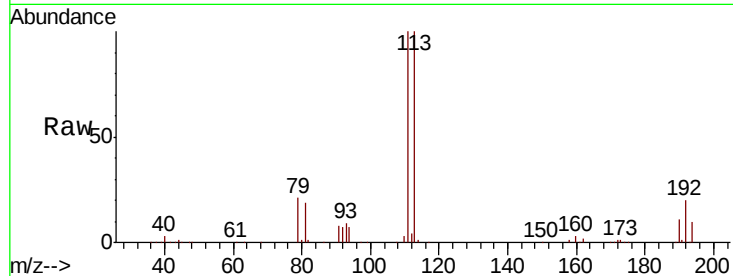




#35
 Dibromofluoromethane
 Concen: 49.087 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010858.D
 Acq: 19 Jun 2019 18:40

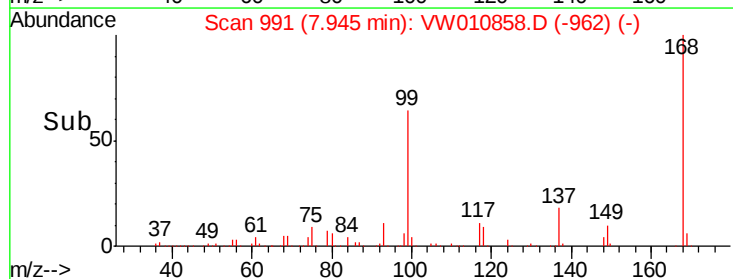
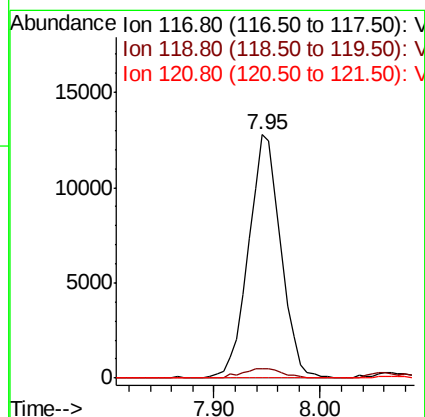
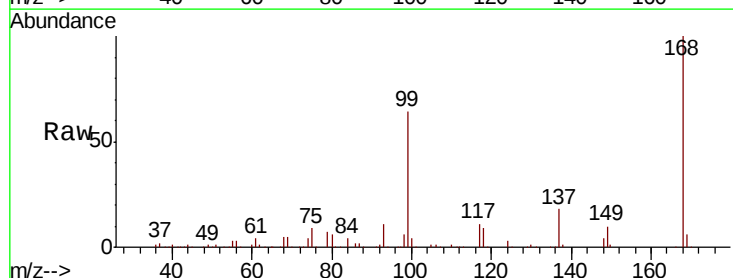
Instrument :
 MSVOA_W
 ClientSampleId :
 SAMPLE-1

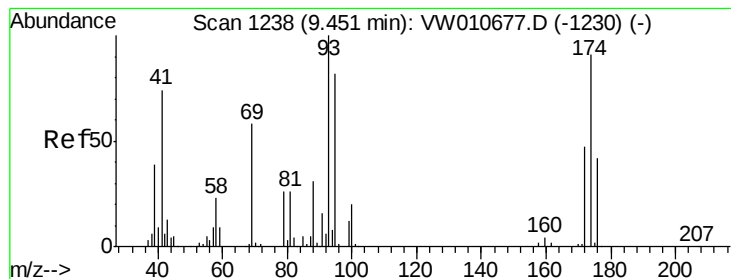
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.6	123.8
192	19.5	16.4	24.6



#38
 Carbon Tetrachloride
 Concen: 6.935 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW010858.D
 Acq: 19 Jun 2019 18:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	74.2	111.4#
121	0.0	22.9	34.3#





#49

1,4-Dioxane

Concen: 7.304 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.00 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

Instrument :

MSVOA_W

ClientSampleId :

SAMPLE-1

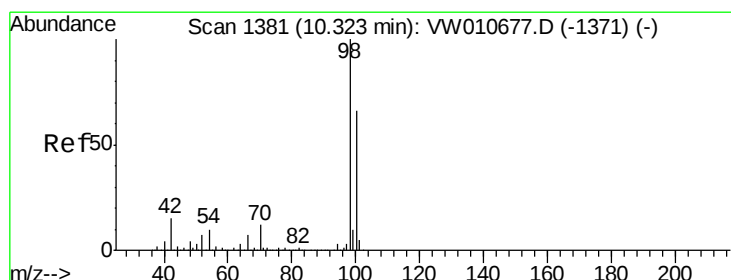
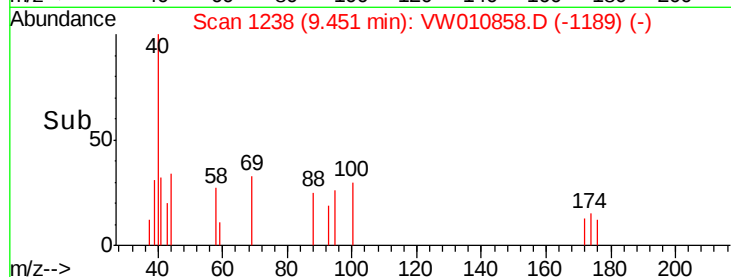
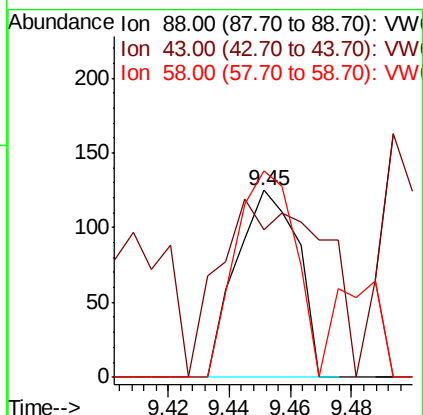
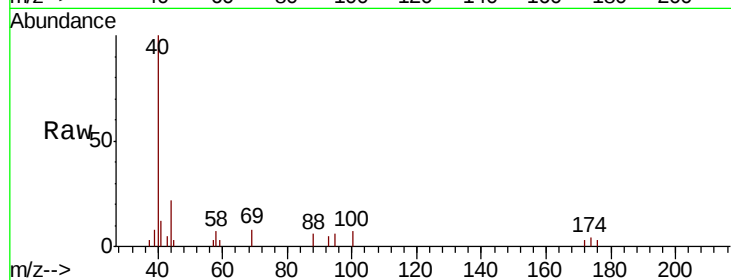
Tot Ion: 88 Resp: 174

Ion Ratio Lower Upper

88 100

43 159.8 34.2 51.4#

58 108.0 69.0 103.4#



#50

Toluene-d8

Concen: 45.358 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010858.D

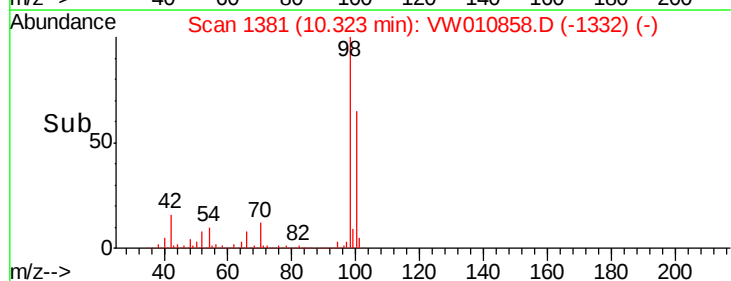
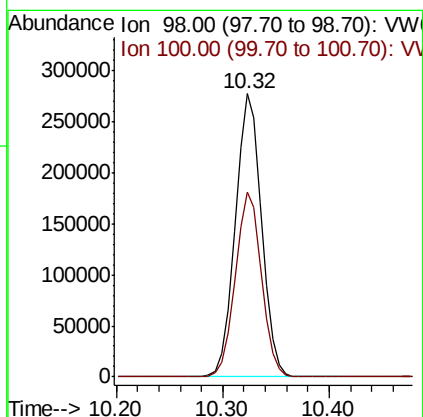
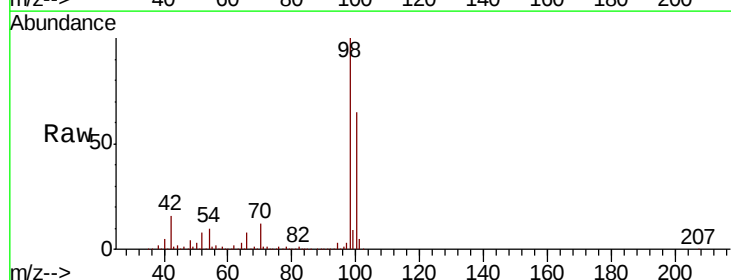
Acq: 19 Jun 2019 18:40

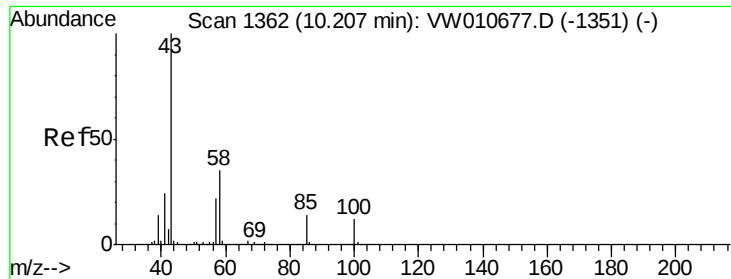
Tgt Ion: 98 Resp: 479095

Ion Ratio Lower Upper

98 100

100 65.3 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 1.292 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

Instrument :

MSVOA_W

ClientSampled :

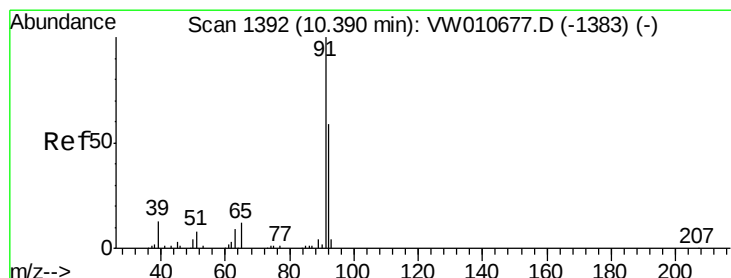
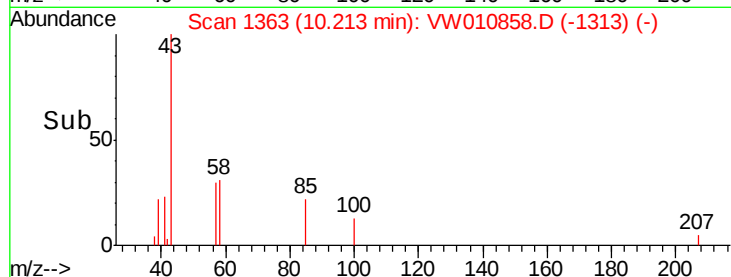
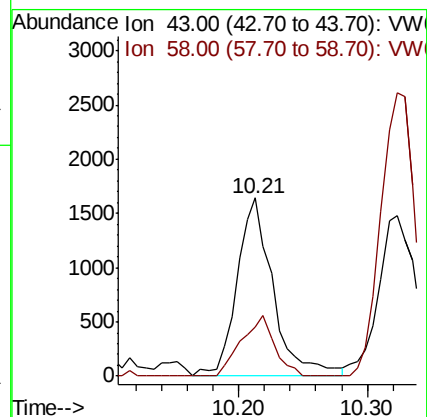
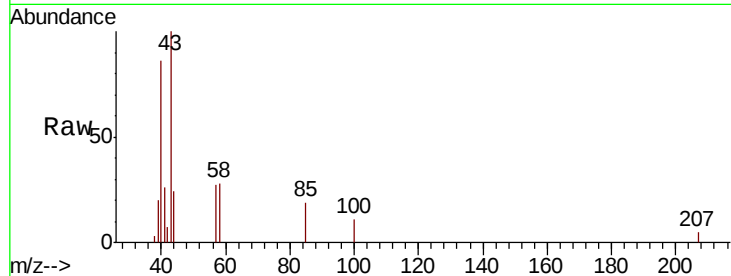
SAMPLE-1

Tot Ion: 43 Resp: 3209

Ion Ratio Lower Upper

43 100

58 31.2 28.4 42.6



#52

Toluene

Concen: 1.917 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010858.D

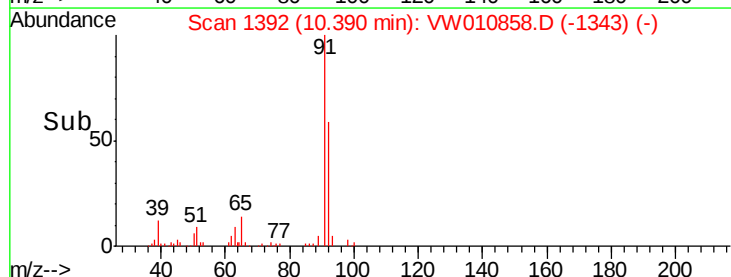
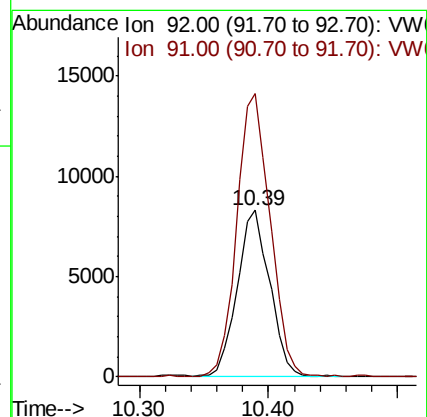
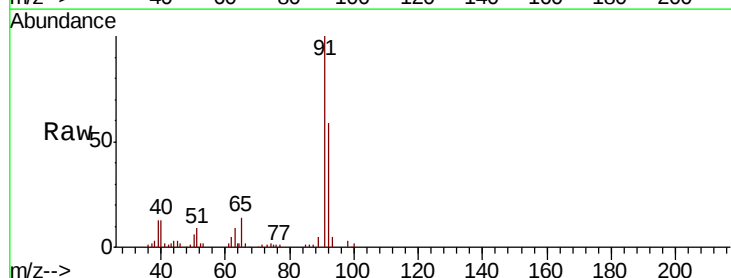
Acq: 19 Jun 2019 18:40

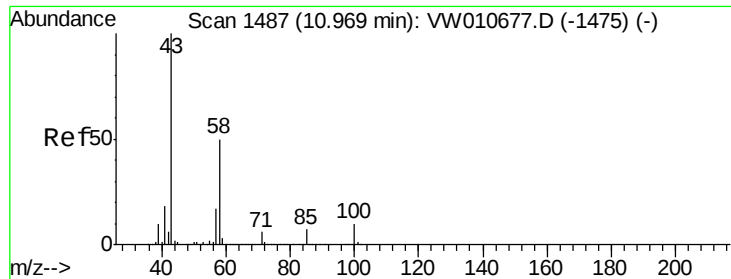
Tgt Ion: 92 Resp: 14613

Ion Ratio Lower Upper

92 100

91 173.1 134.9 202.3





#59

2-Hexanone

Concen: 1.167 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

Instrument :

MSVOA_W

ClientSampleId :

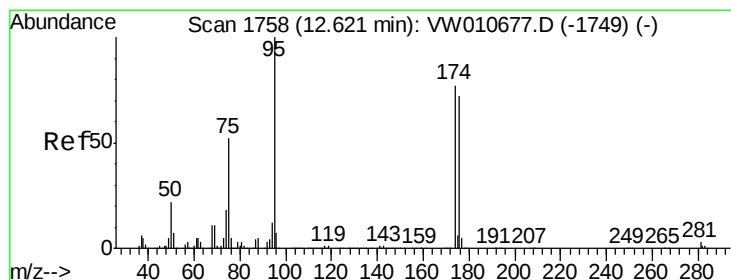
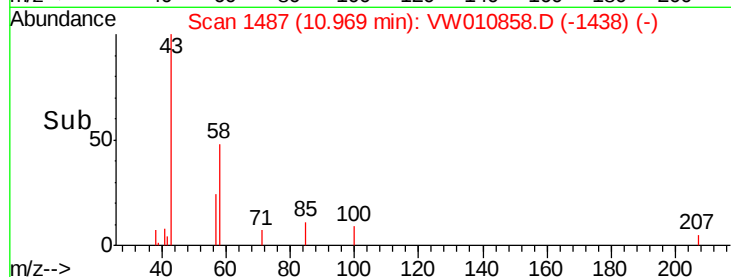
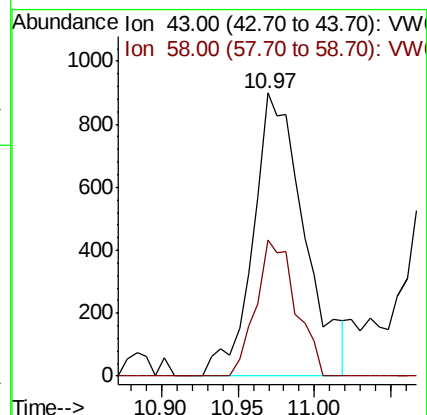
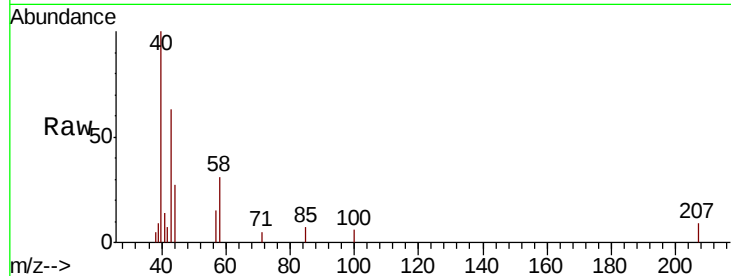
SAMPLE-1

Tot Ion: 43 Resp: 2096

Ion Ratio Lower Upper

43 100

58 37.4 24.9 74.6



#62

4-Bromofluorobenzene

Concen: 44.747 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

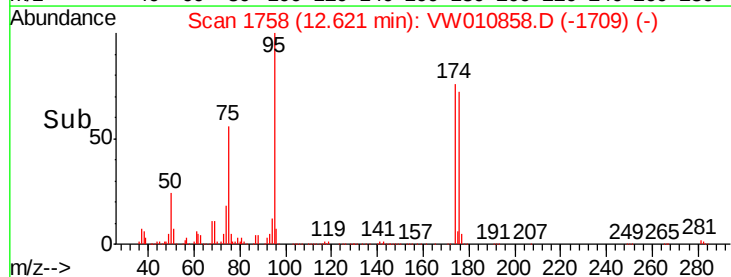
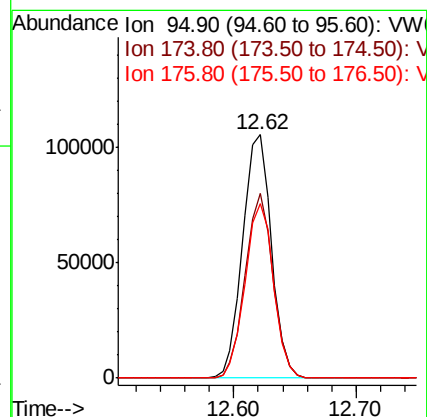
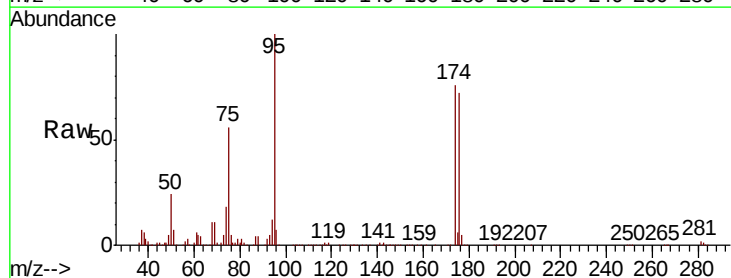
Tgt Ion: 95 Resp: 171987

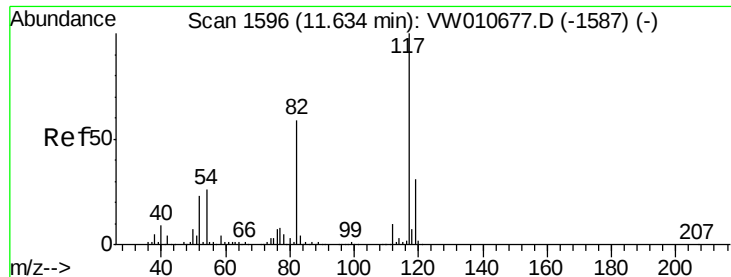
Ion Ratio Lower Upper

95 100

174 74.0 0.0 150.4

176 71.3 0.0 144.8

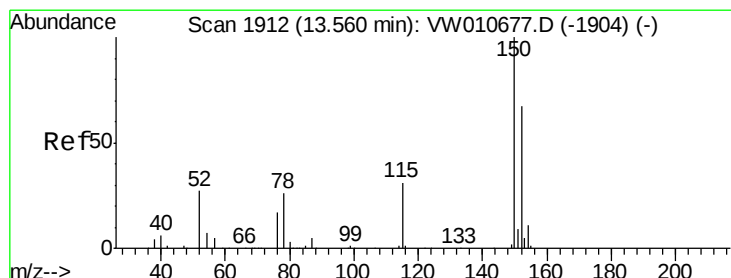
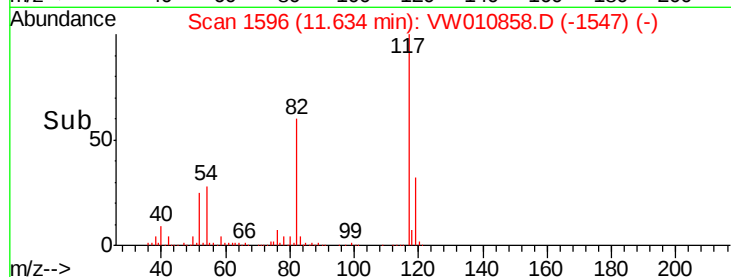
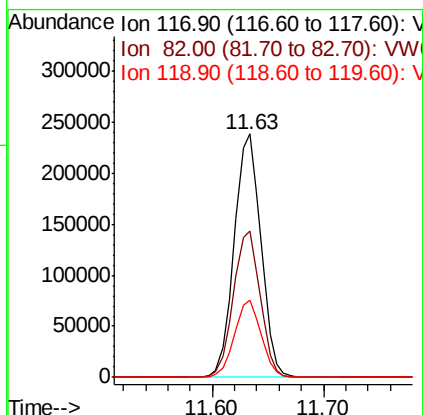
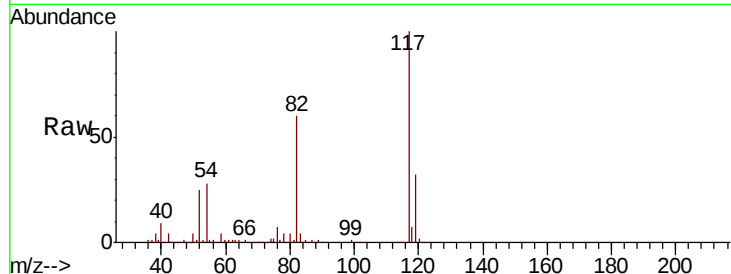




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010858.D
Acq: 19 Jun 2019 18:40

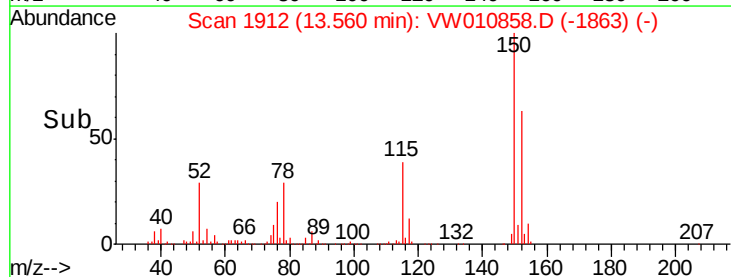
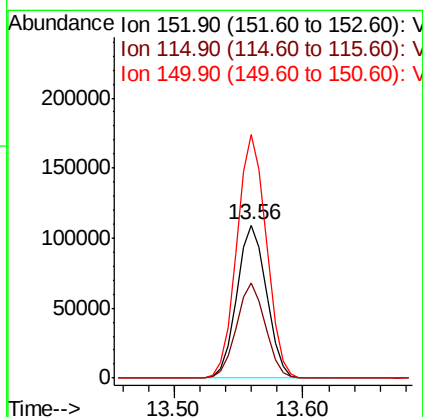
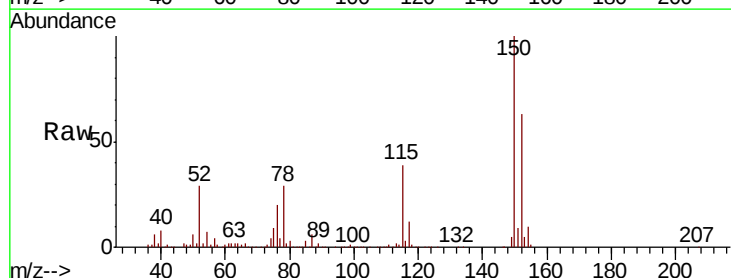
Instrument :
MSVOA_W
ClientSampleId :
SAMPLE-1

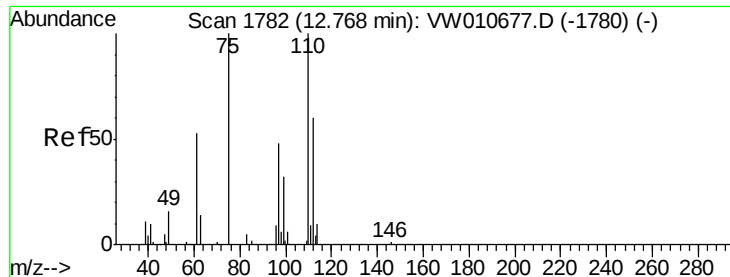
Tot Ion	Ratio	Lower	Upper
117	100		
82	60.1	47.0	70.4
119	31.6	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010858.D
Acq: 19 Jun 2019 18:40

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	29.8	89.3
150	159.4	0.0	345.0





#76

1,2,3-Trichloropropane

Concen: 52.414 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

Instrument :

MSVOA_W

ClientSampled :

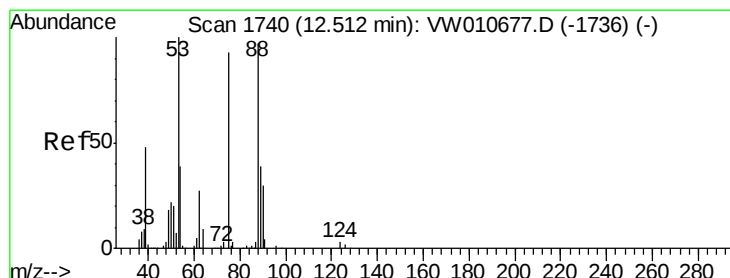
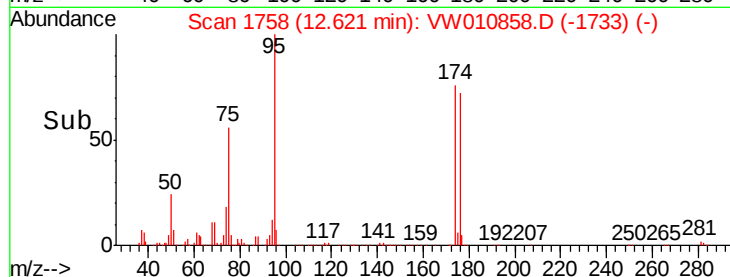
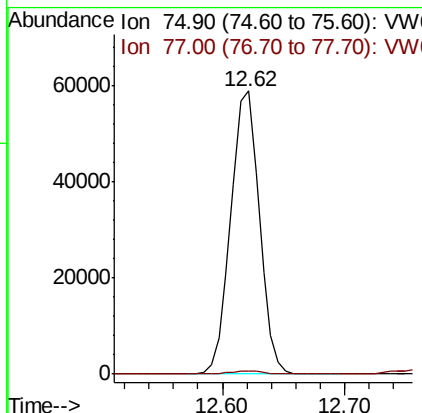
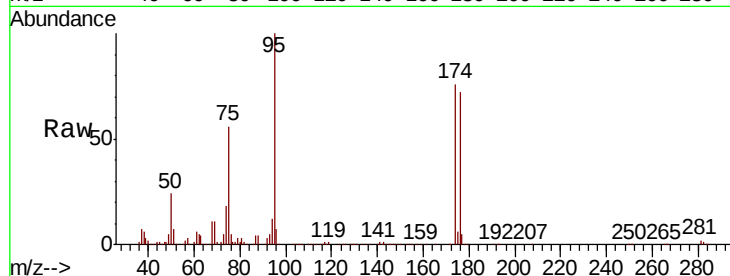
SAMPLE-1

Tot Ion: 75 Resp: 95272

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 120.465 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010858.D

Acq: 19 Jun 2019 18:40

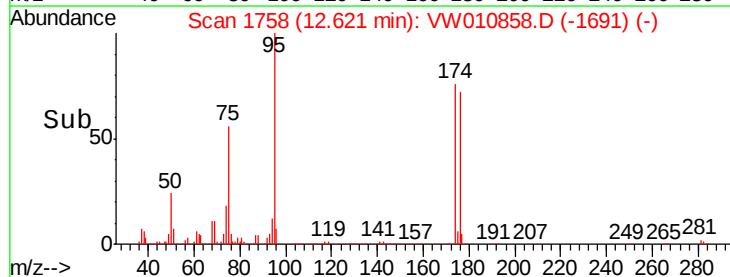
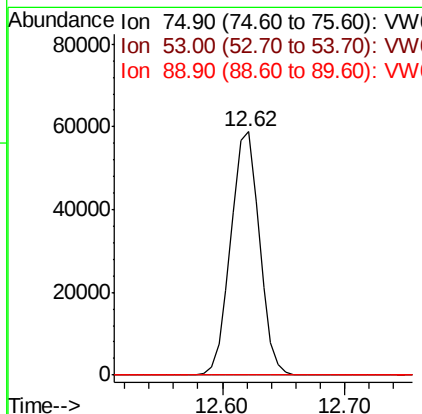
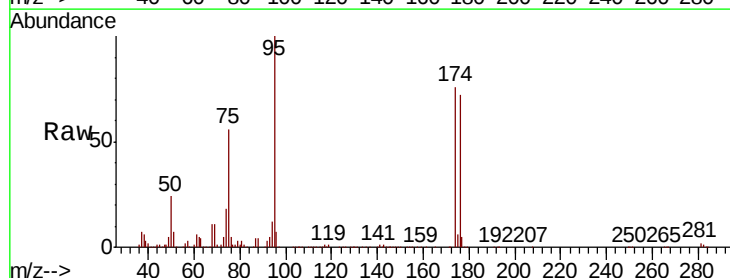
Tgt Ion: 75 Resp: 95272

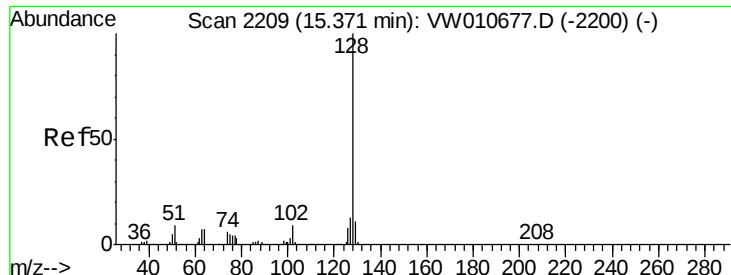
Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 34.6 52.0#

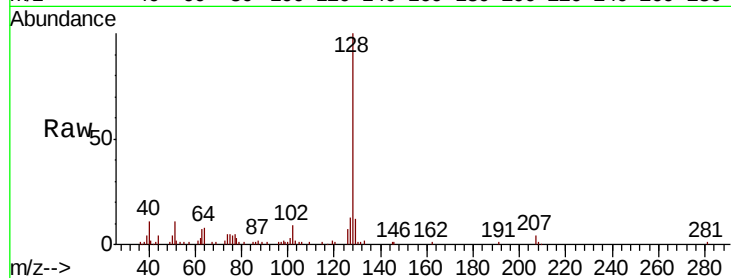




#95
Naphthalene
Concen: 3.790 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010858.D
Acq: 19 Jun 2019 18:40

Instrument :
MSVOA_W
ClientSampleId :
SAMPLE-1

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.6	15.8
129	11.0	8.6	13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

