

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092319\
 Data File : VW013264.D
 Acq On : 24 Sep 2019 07:40
 Operator : SY/VA
 Sample : K5008-04
 Misc : 5.58G/5ML/MSVOA_W/SOIL
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-4

Quant Time: Sep 24 08:48:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	393035	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	584143	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	521125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	238482	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	165811	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
35) Dibromofluoromethane	7.88	113	158502	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	10.32	98	704572	52.40	ug/l	0.00
Spiked Amount			Recovery	=	104.80%	
62) 4-Bromofluorobenzene	12.62	95	234446	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	

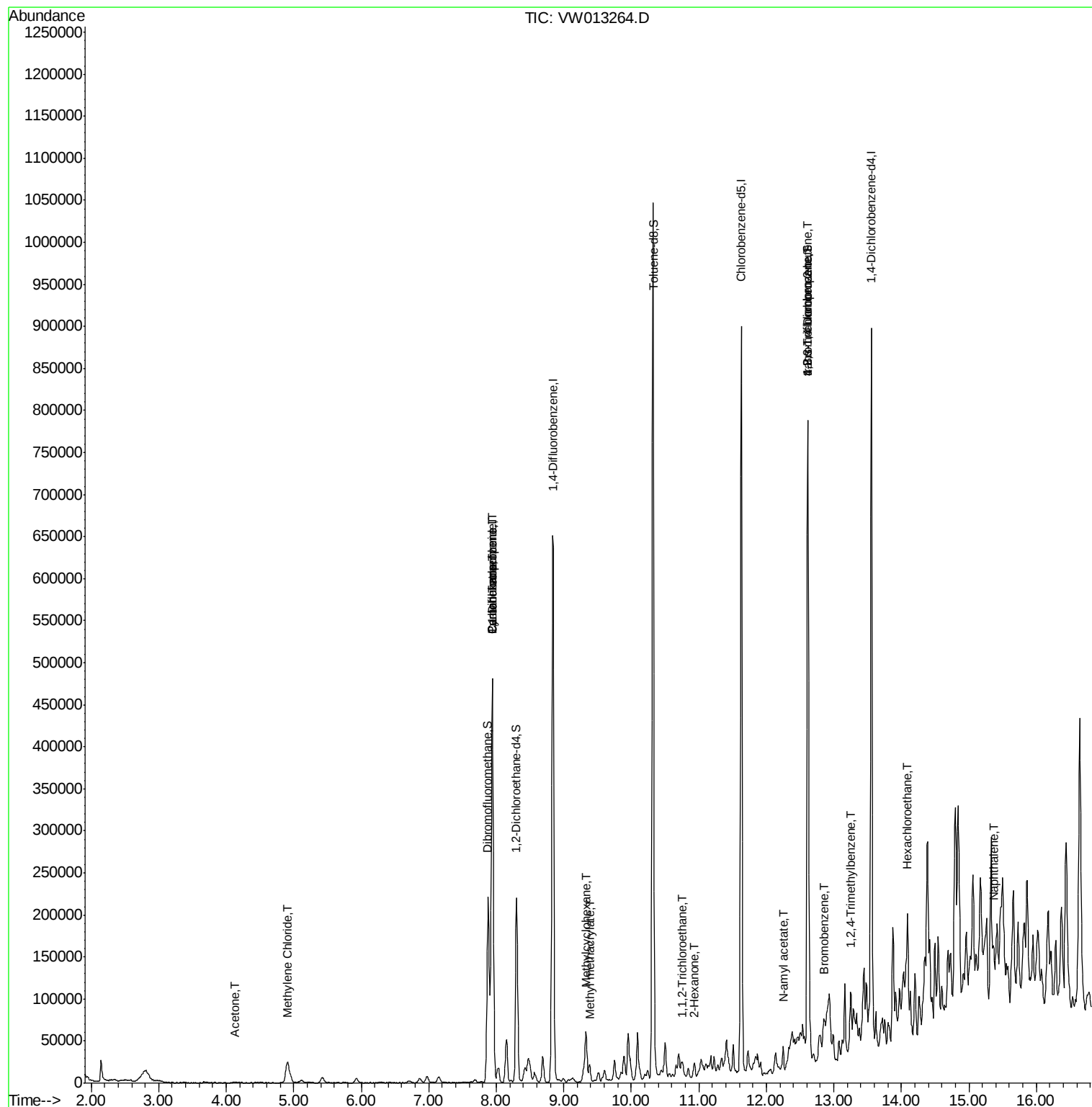
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.20	59	170	Below Cal	#	73
16) Acetone	4.14	43	1417	1.959	ug/l	99
20) Methylene Chloride	4.92	84	18724	2.289	ug/l	93
26) 2,2-Dichloropropane	7.16	77	292	Below Cal	#	52
31) Cyclohexane	7.93	56	15599	2.243	ug/l	# 52
36) 1,1-Dichloropropene	7.94	75	24653	4.357	ug/l	# 49
38) Carbon Tetrachloride	7.94	117	33663	6.637	ug/l	# 17
39) Methylcyclohexane	9.33	83	19998	2.750	ug/l	93
48) Methyl methacrylate	9.38	41	3938	1.817	ug/l	# 32
55) 1,1,2-Trichloroethane	10.76	97	5772	2.064	ug/l	# 24
59) 2-Hexanone	10.93	43	6358	4.000	ug/l	# 27
74) N-amyl acetate	12.25	43	5821	1.489	ug/l	# 73
76) 1,2,3-Trichloropropane	12.62	75	111579	52.979	ug/l	# 100
77) Bromobenzene	12.85	156	23761	5.692	ug/l	# 1
81) trans-1,4-Dichloro-2-buten	12.62	75	111579	118.880	ug/l	# 12
84) 1,2,4-Trimethylbenzene	13.25	105	40072	2.719	ug/l	100
90) Hexachloroethane	14.10	117	5663	2.028	ug/l	# 5
95) Naphthalene	15.36	128	62222	7.638	ug/l	96

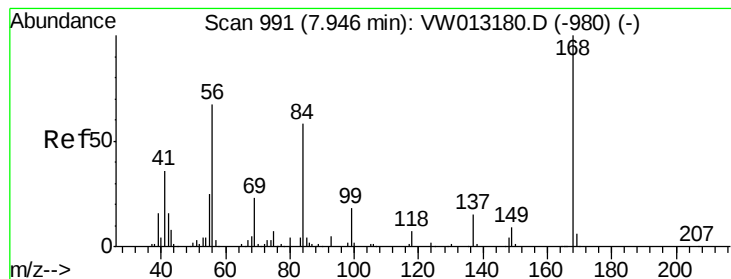
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampleId :

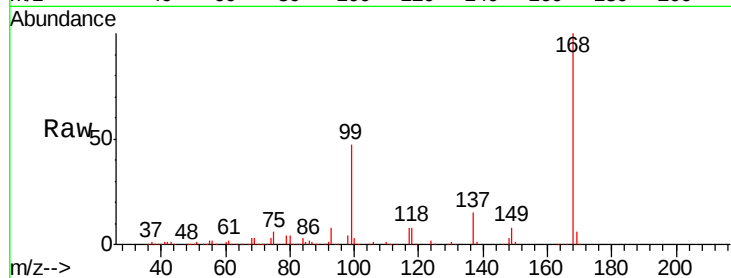
SB-4

Tgt Ion:168 Resp: 393035

Ion Ratio Lower Upper

168 100

99 47.3 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

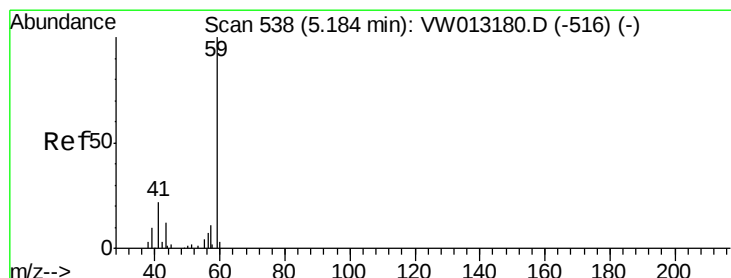
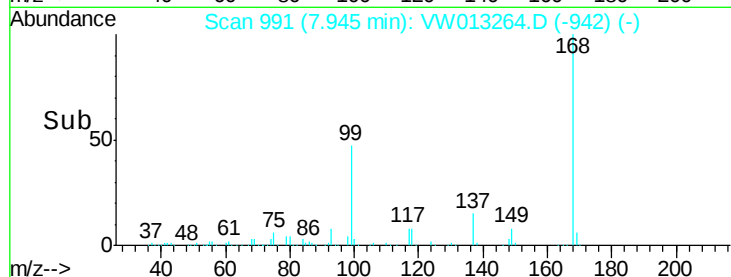
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 541

Delta R.T. 0.02 min

Lab File: VW013264.D

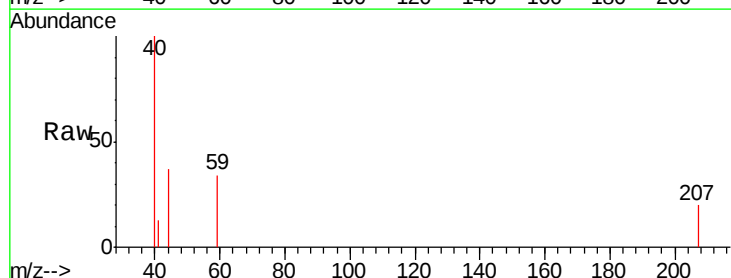
Acq: 24 Sep 2019 07:40

Tgt Ion: 59 Resp: 170

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.20

250

200

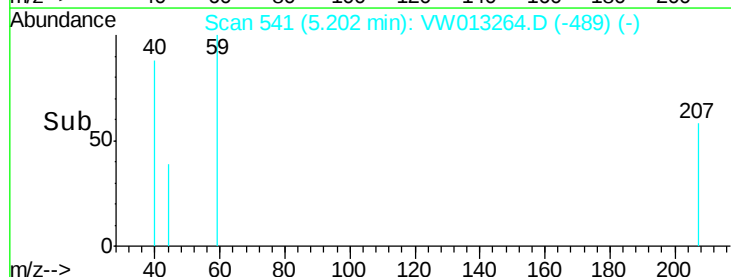
150

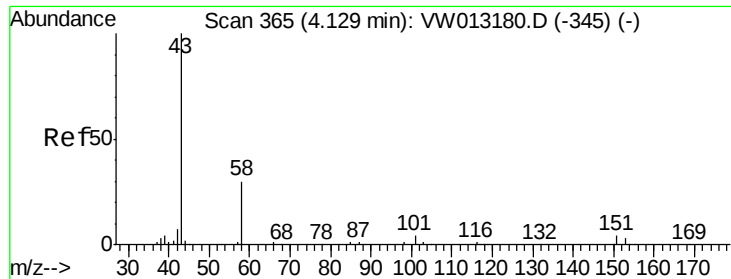
100

50

0

Time--> 5.16 5.18 5.20 5.22





#16

Acetone

Concen: 1.959 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampled :

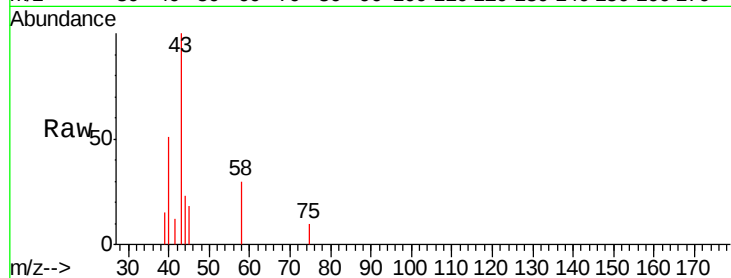
SB-4

Tgt Ion: 43 Resp: 1417

Ion Ratio Lower Upper

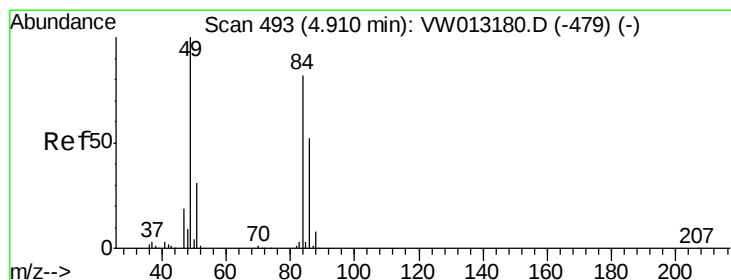
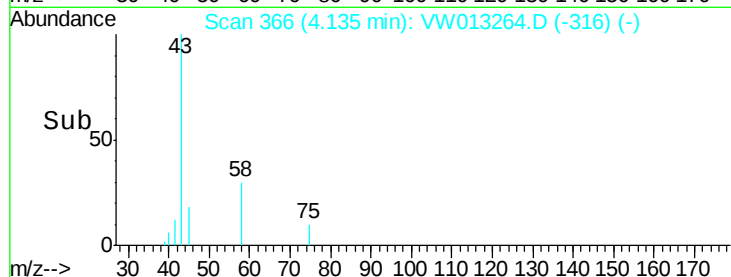
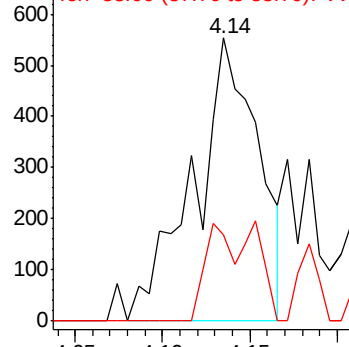
43 100

58 30.4 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 2.289 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Tgt Ion: 84 Resp: 18724

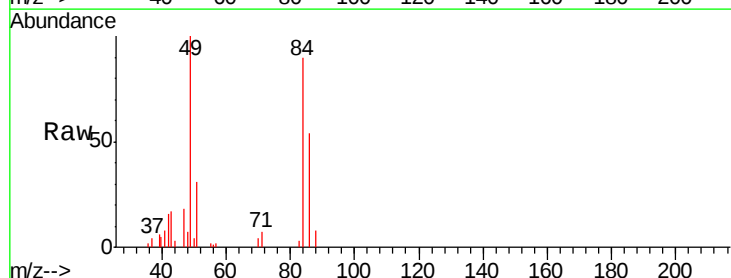
Ion Ratio Lower Upper

84 100

49 111.6 97.6 146.4

51 34.3 30.2 45.2

86 59.8 50.6 76.0

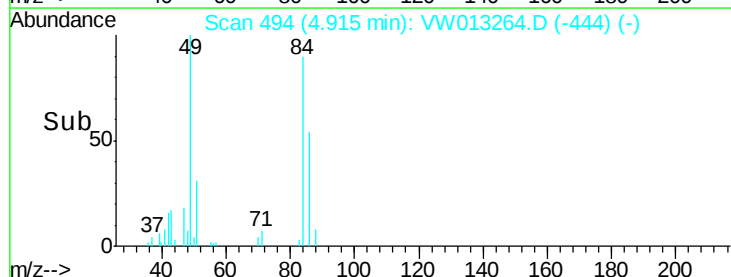
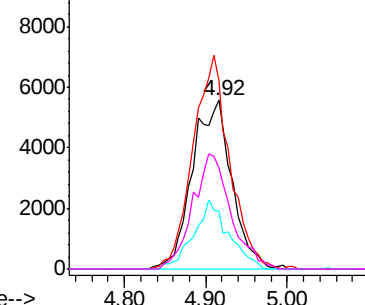


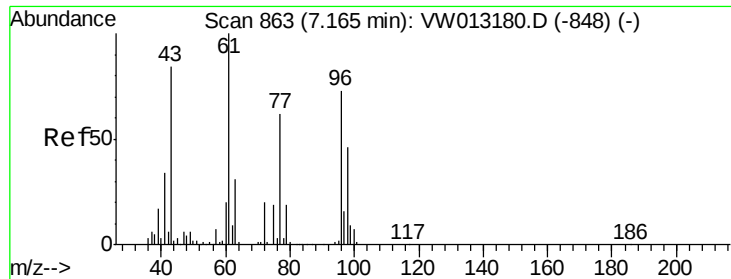
Abundance Ion 83.90 (83.60 to 84.60): VW

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





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampled :

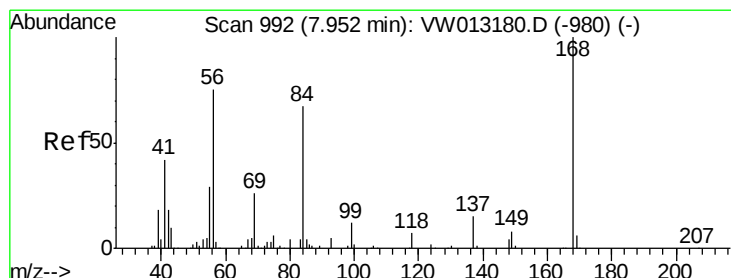
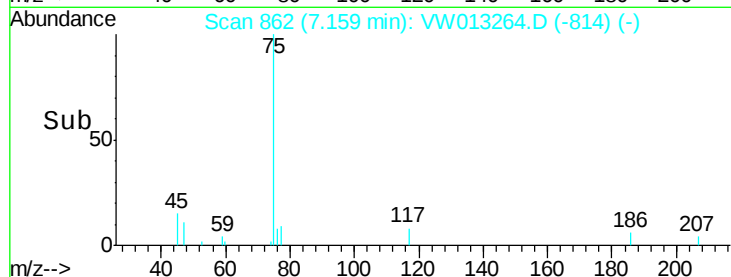
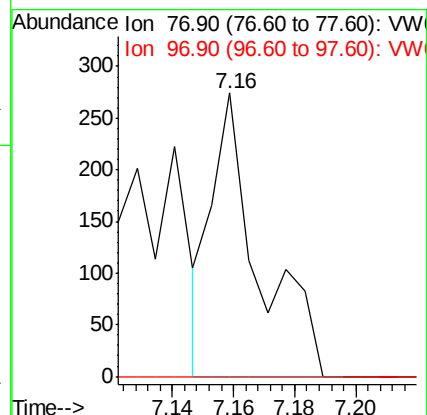
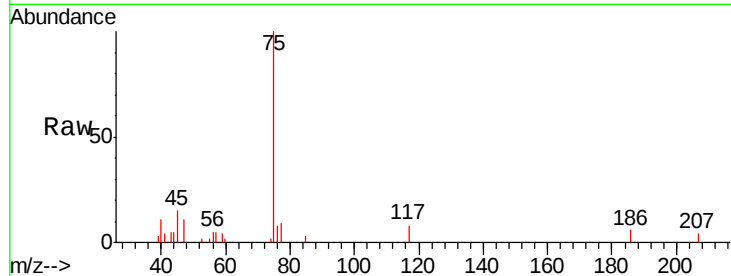
SB-4

Tgt Ion: 77 Resp: 292

Ion Ratio Lower Upper

77 100

97 0.0 11.8 35.4#



#31

Cyclohexane

Concen: 2.243 ug/l

RT: 7.93 min Scan# 989

Delta R.T. -0.02 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

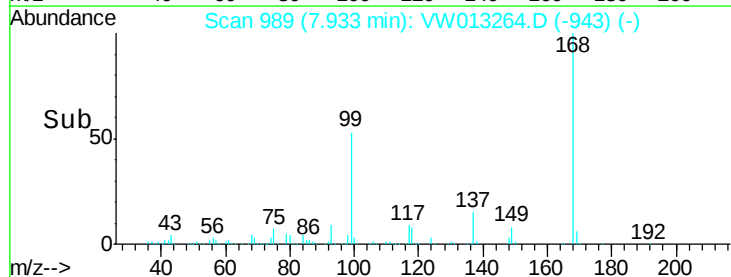
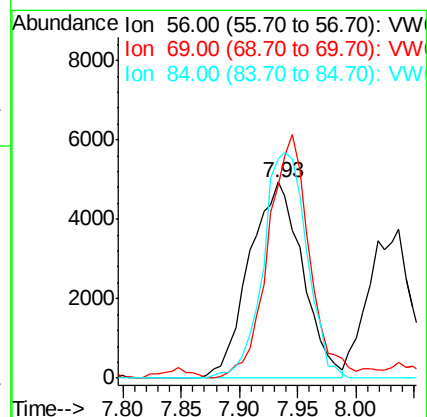
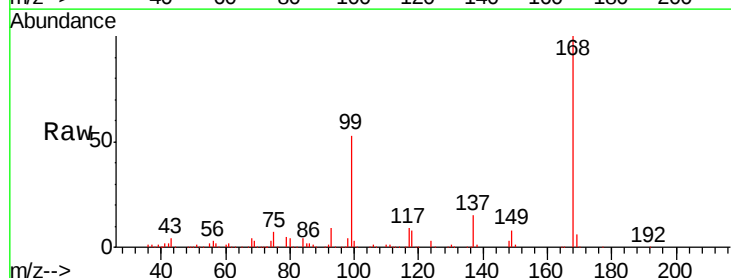
Tgt Ion: 56 Resp: 15599

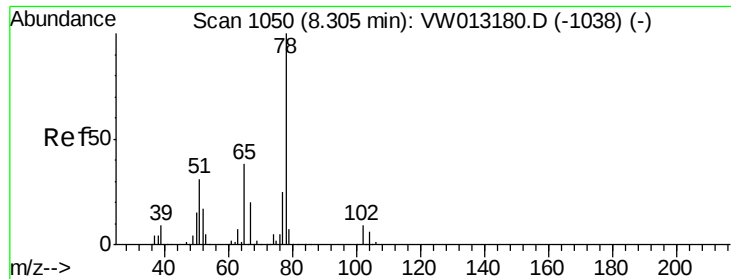
Ion Ratio Lower Upper

56 100

69 95.6 27.2 40.8#

84 112.0 70.8 106.2#





#33

1,2-Dichloroethane-d4

Concen: 51.691 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampled :

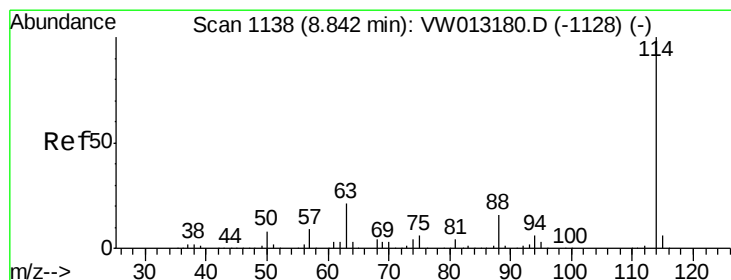
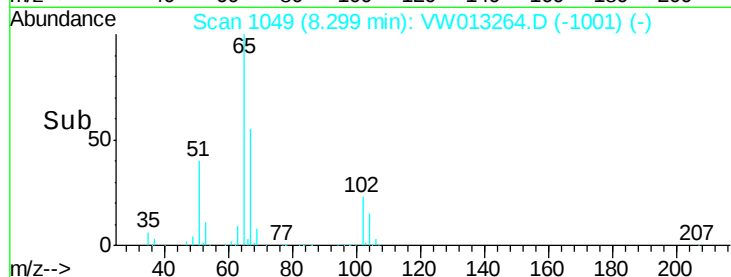
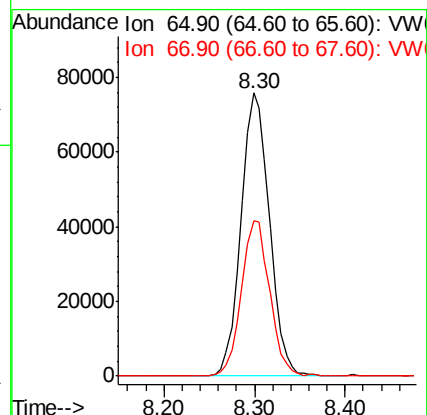
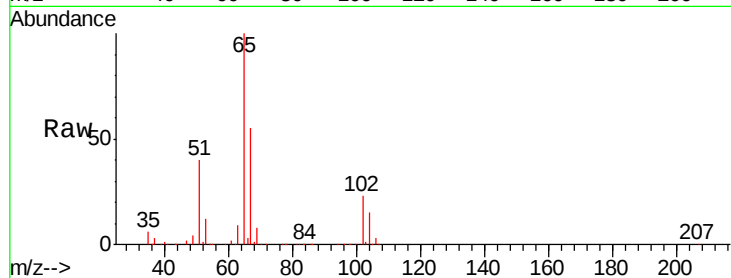
SB-4

Tgt Ion: 65 Resp: 165811

Ion Ratio Lower Upper

65 100

67 54.6 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

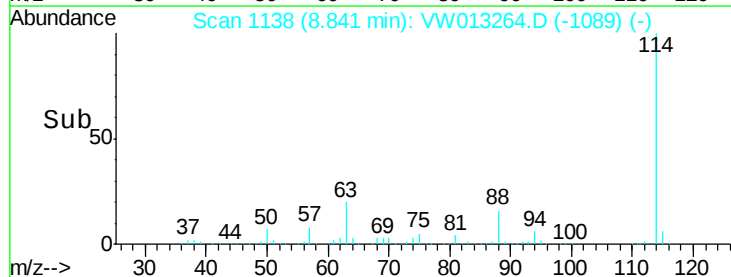
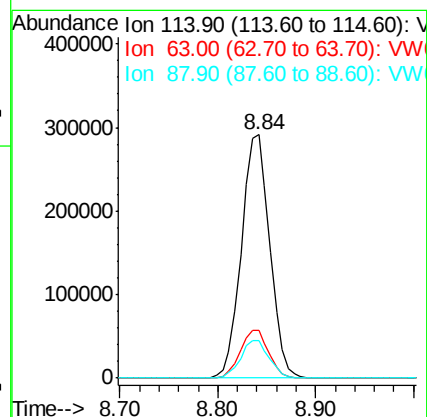
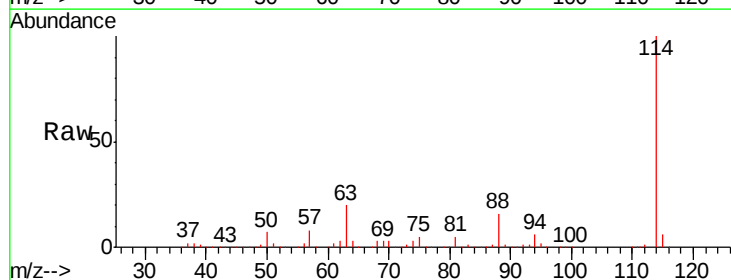
Tgt Ion: 114 Resp: 584143

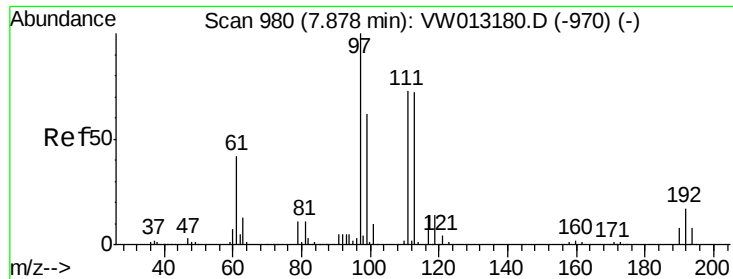
Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

88 15.5 0.0 32.0

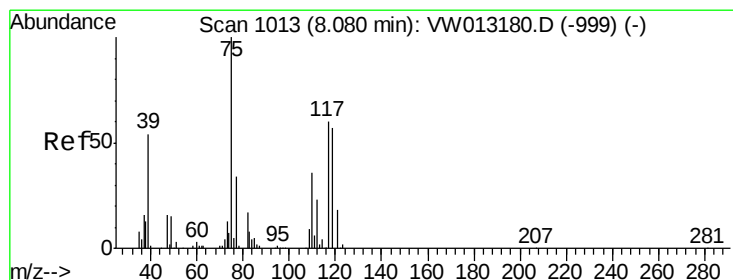
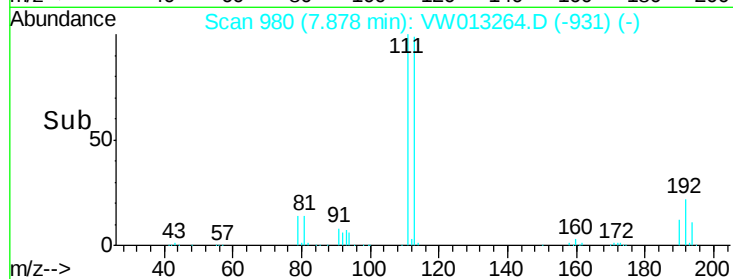
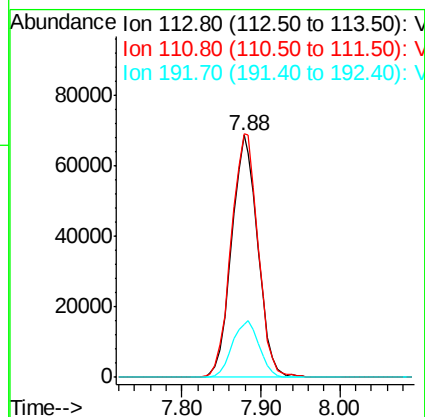
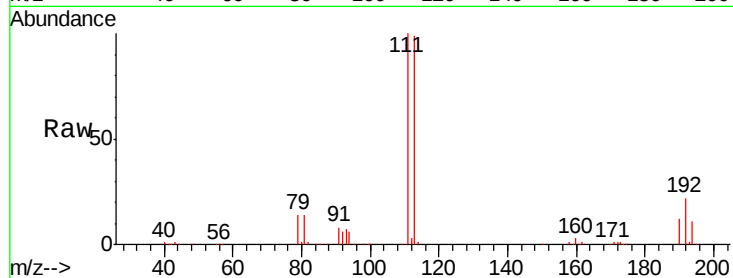




#35
 Dibromofluoromethane
 Concen: 49.335 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013264.D
 Acq: 24 Sep 2019 07:40

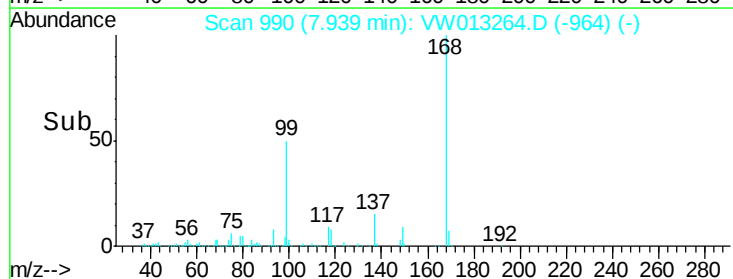
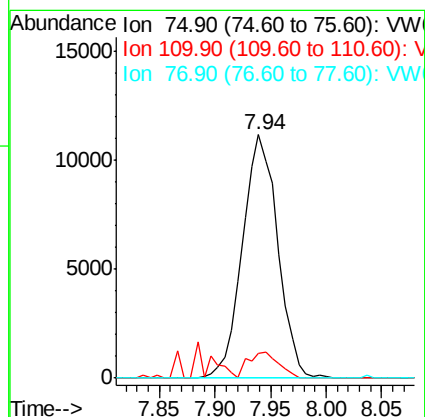
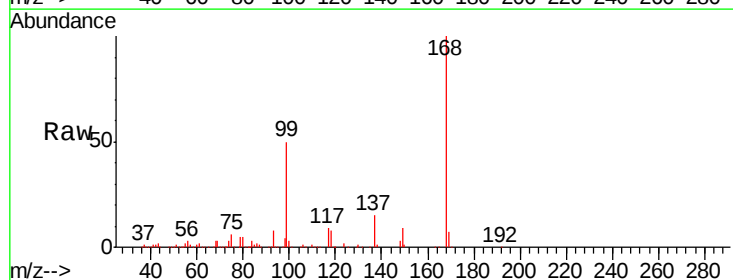
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-4

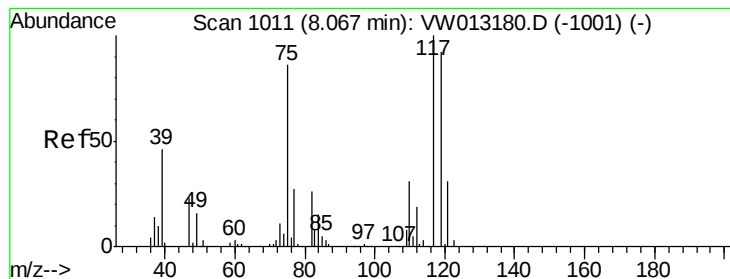
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.9	122.9
192	23.8	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 4.357 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013264.D
 Acq: 24 Sep 2019 07:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.3#
77	0.0	25.8	38.6#





#38

Carbon Tetrachloride

Concen: 6.637 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampled :

SB-4

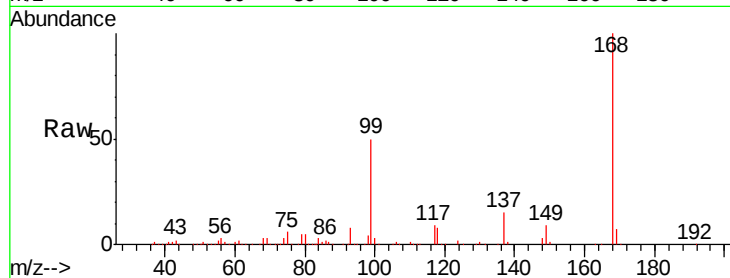
Tgt Ion:117 Resp: 33663

Ion Ratio Lower Upper

117 100

119 4.2 73.5 110.3#

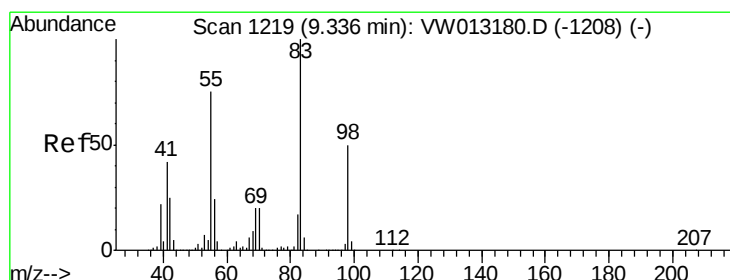
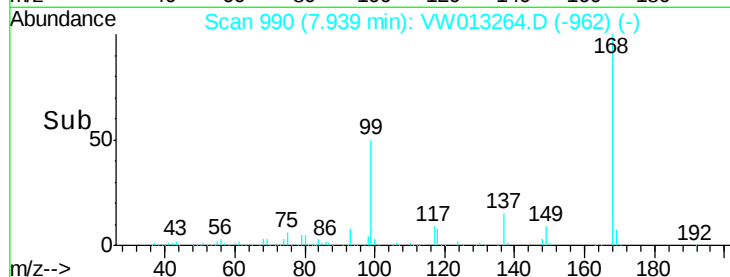
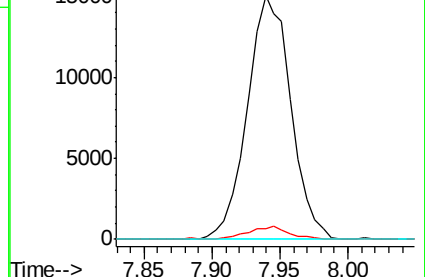
121 0.0 25.0 37.6#



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



#39

Methylcyclohexane

Concen: 2.750 ug/l

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

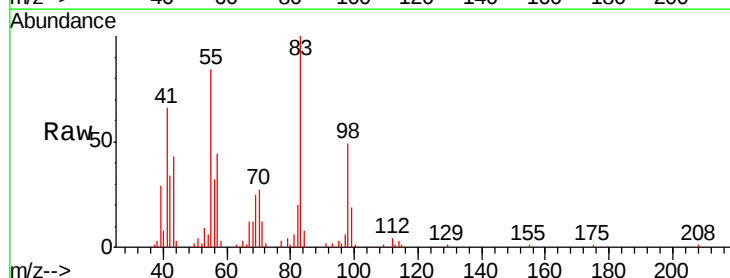
Tgt Ion: 83 Resp: 19998

Ion Ratio Lower Upper

83 100

55 84.3 60.4 90.6

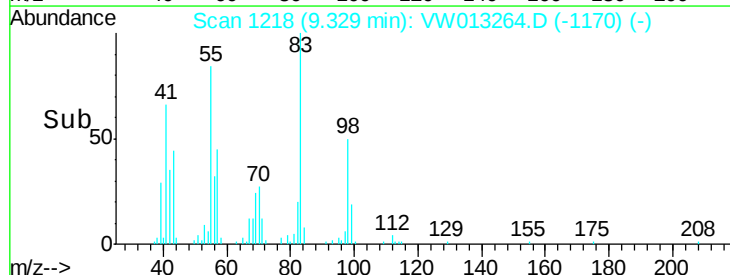
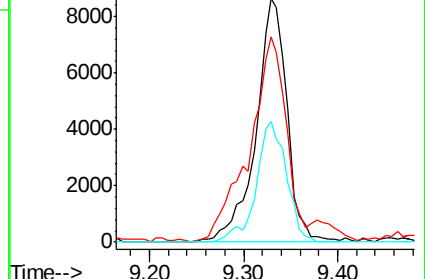
98 49.4 40.0 60.0

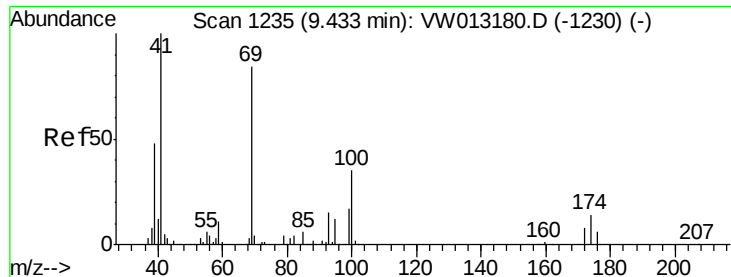


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

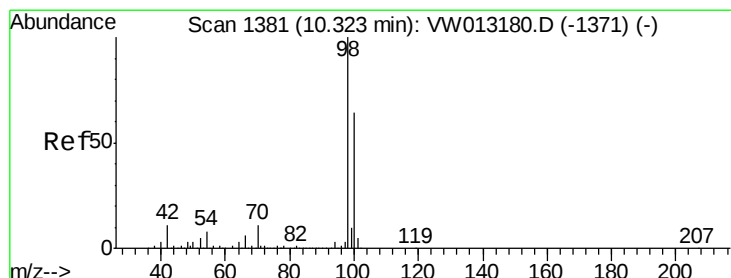
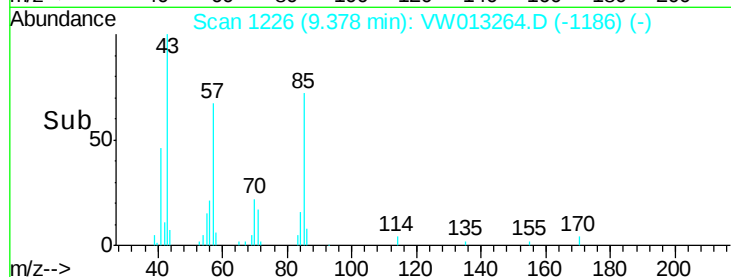
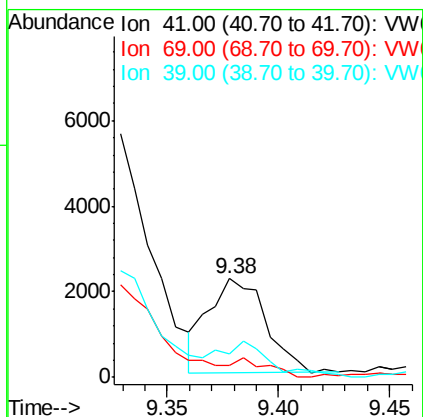
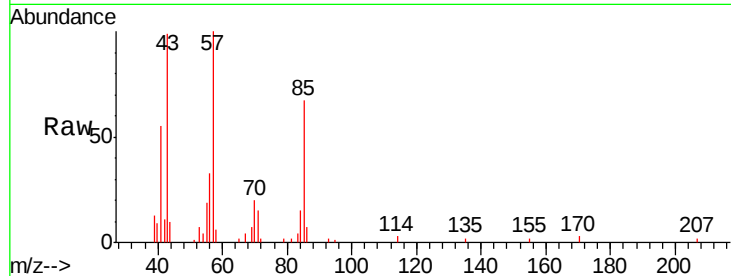




#48
Methyl methacrylate
Concen: 1.817 ug/l
RT: 9.38 min Scan# 1226
Delta R.T. -0.06 min
Lab File: VW013264.D
Acq: 24 Sep 2019 07:40

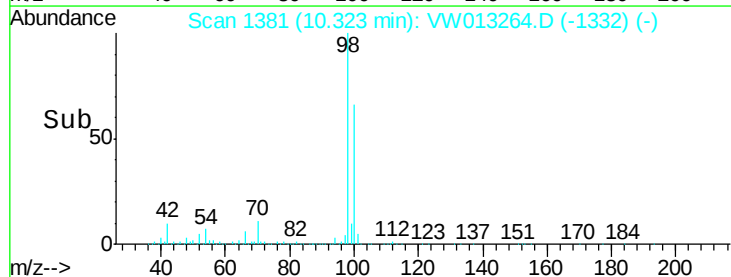
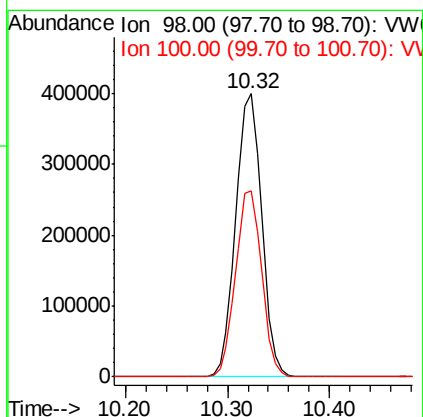
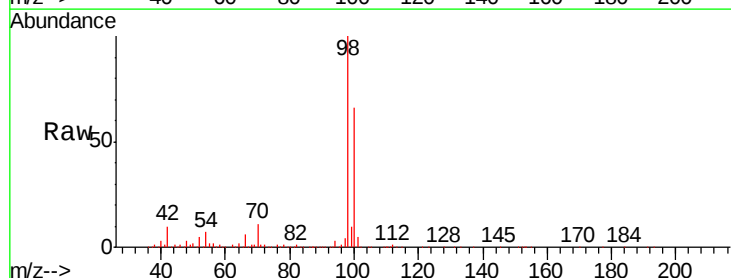
Instrument :
MSVOA_W
ClientSampled :
SB-4

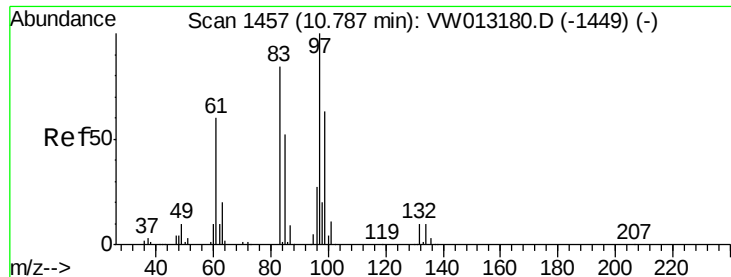
Tgt Ion: 41 Resp: 3938
Ion Ratio Lower Upper
41 100
69 0.0 69.7 104.5#
39 34.5 41.1 61.7#



#50
Toluene-d8
Concen: 52.400 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013264.D
Acq: 24 Sep 2019 07:40

Tgt Ion: 98 Resp: 704572
Ion Ratio Lower Upper
98 100
100 65.9 52.9 79.3

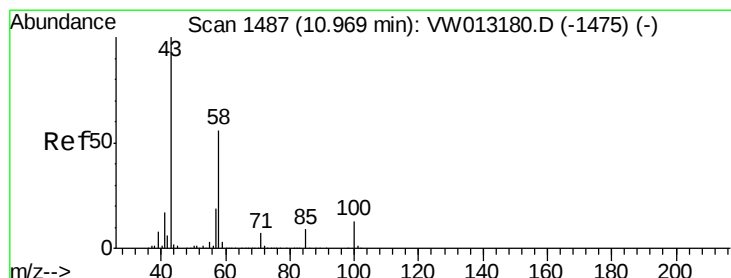
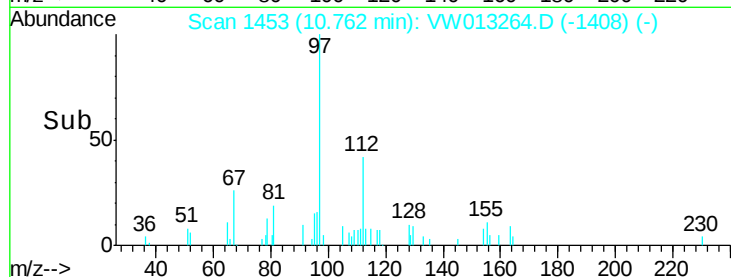
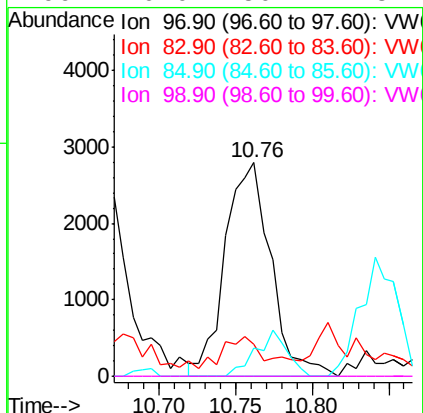
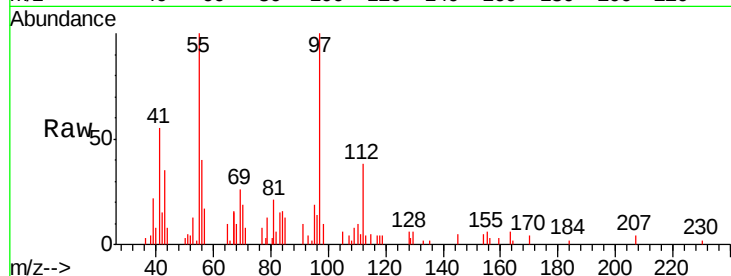




#55
 1,1,2-Trichloroethane
 Concen: 2.064 ug/l
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW013264.D
 Acq: 24 Sep 2019 07:40

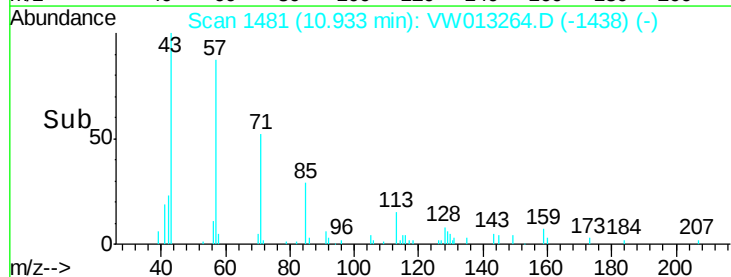
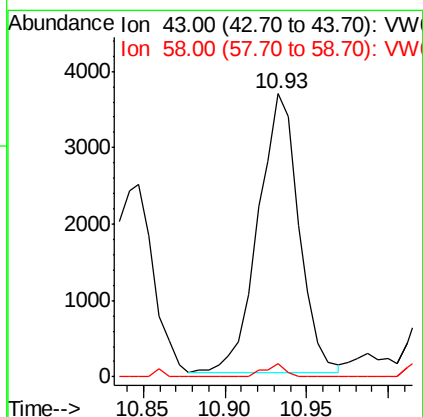
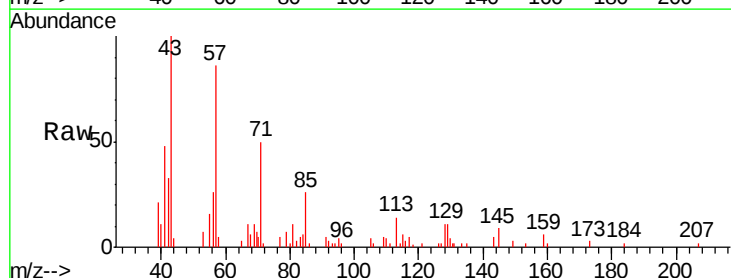
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-4

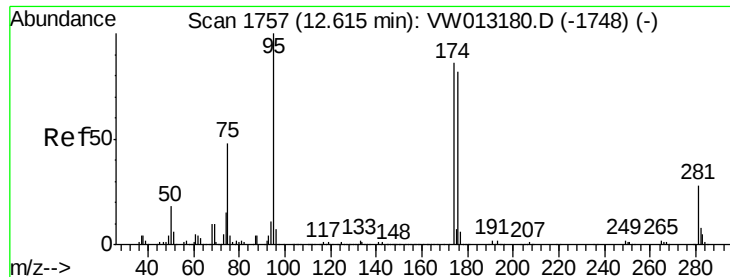
Tgt Ion: 97 Resp: 5772
 Ion Ratio Lower Upper
 97 100
 83 7.7 67.6 101.4#
 85 13.3 41.9 62.9#
 99 0.0 50.1 75.1#



#59
 2-Hexanone
 Concen: 4.000 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.04 min
 Lab File: VW013264.D
 Acq: 24 Sep 2019 07:40

Tgt Ion: 43 Resp: 6358
 Ion Ratio Lower Upper
 43 100
 58 2.5 28.1 84.2#





#62

4-Bromofluorobenzene

Concen: 51.044 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampleId :

SB-4

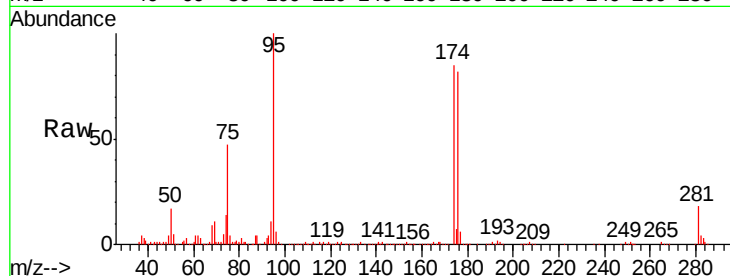
Tgt Ion: 95 Resp: 234446

Ion Ratio Lower Upper

95 100

174 90.3 0.0 178.4

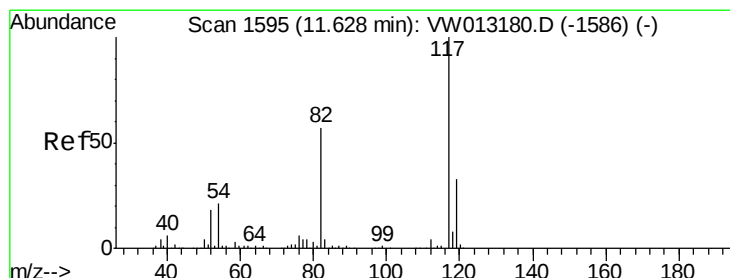
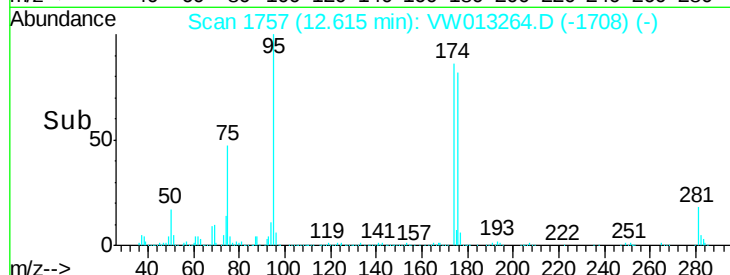
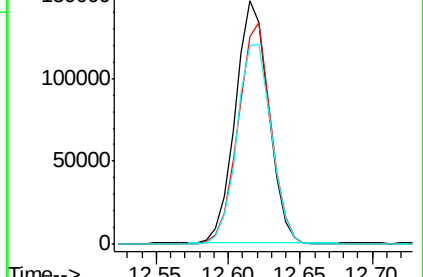
176 86.0 0.0 172.2



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# 1595

Delta R.T. -0.00 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

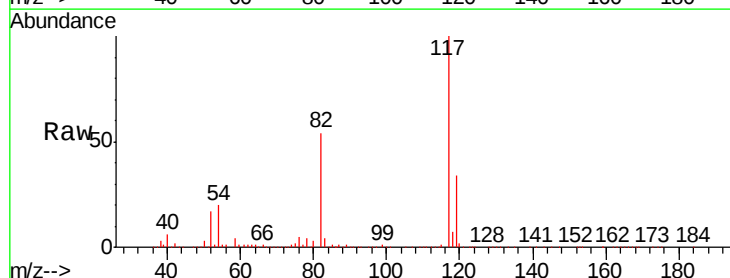
Tgt Ion: 117 Resp: 521125

Ion Ratio Lower Upper

117 100

82 53.7 45.9 68.9

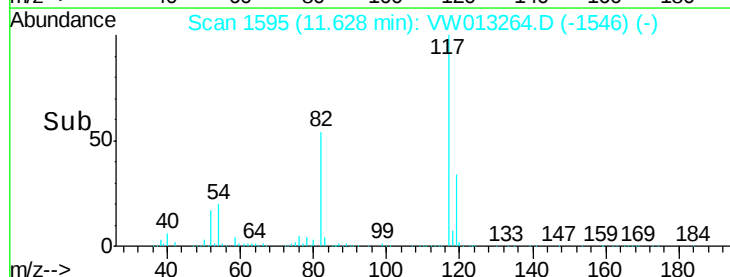
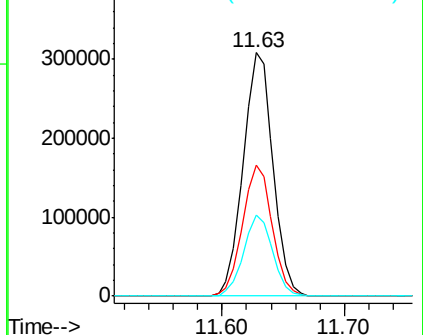
119 33.5 26.2 39.2

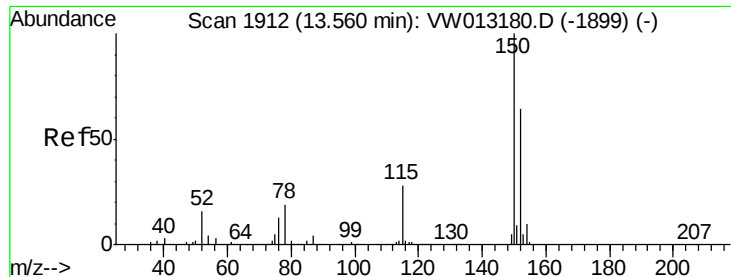


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampled :

SB-4

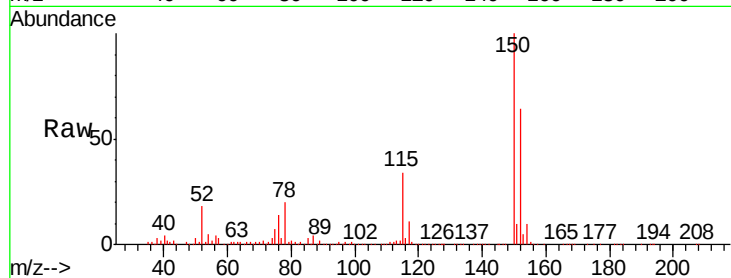
Tgt Ion:152 Resp: 238482

Ion Ratio Lower Upper

152 100

115 55.5 27.3 81.9

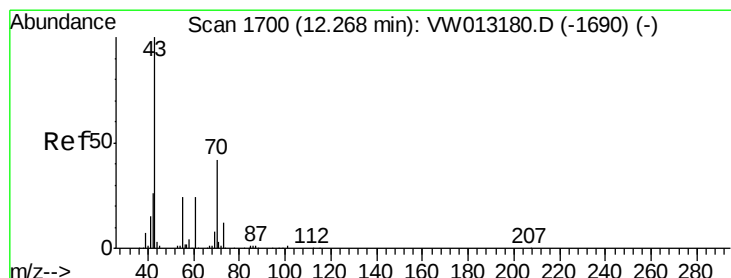
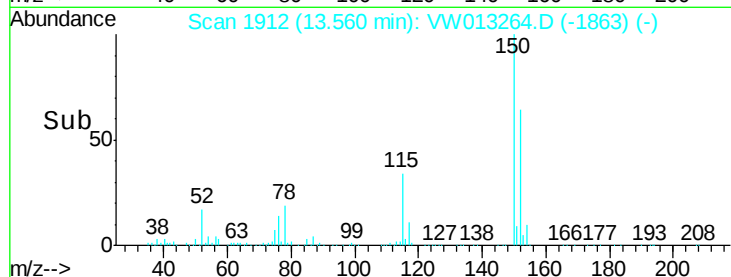
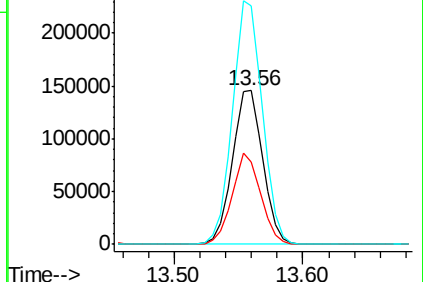
150 156.6 0.0 349.0



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



#74

N-ethyl acetate

Concen: 1.489 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Tgt Ion: 43 Resp: 5821

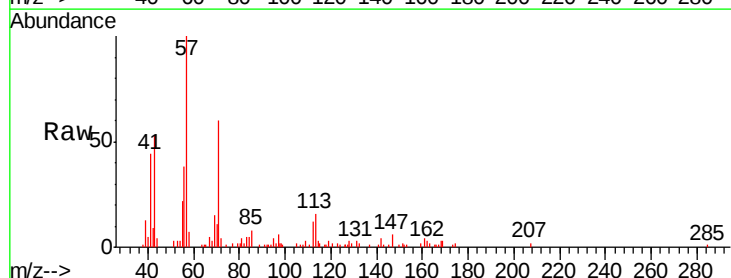
Ion Ratio Lower Upper

43 100

70 29.5 35.1 52.7#

55 18.8 19.9 29.9#

61 0.0 19.5 29.3#

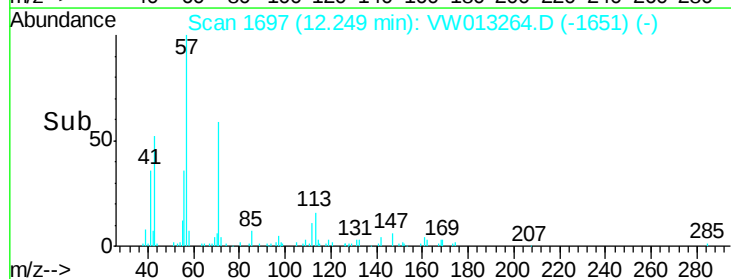
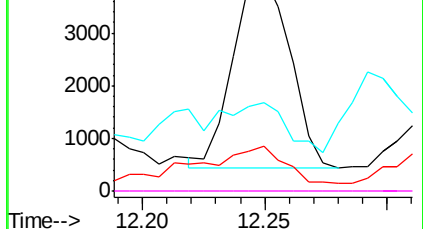


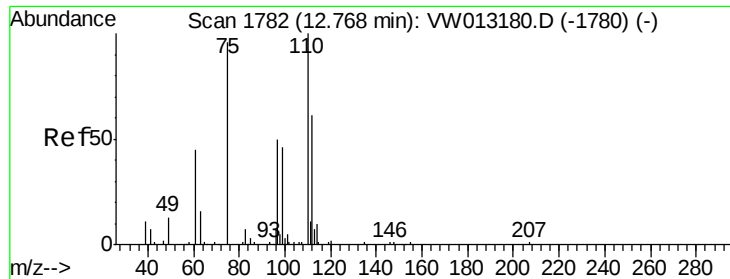
Abundance Ion 43.00 (42.70 to 43.70): VV

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: 52.979 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampled :

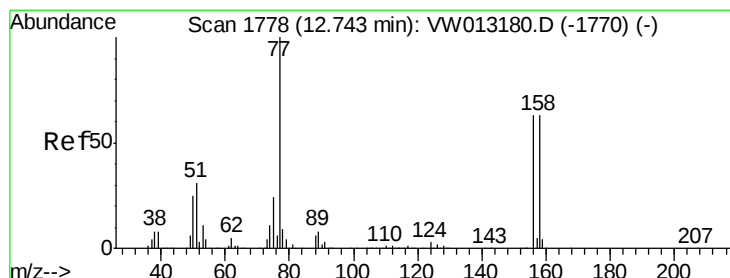
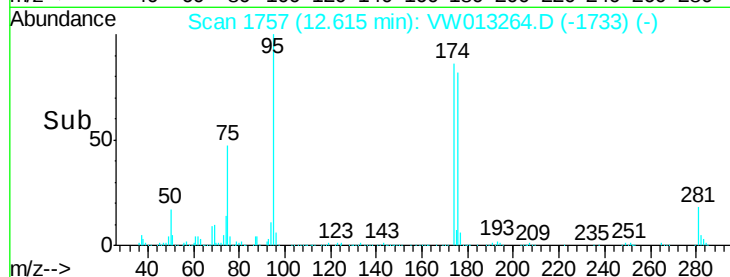
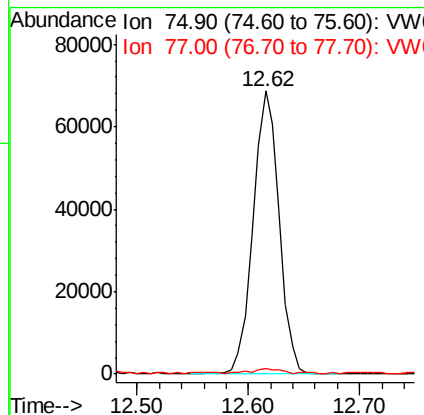
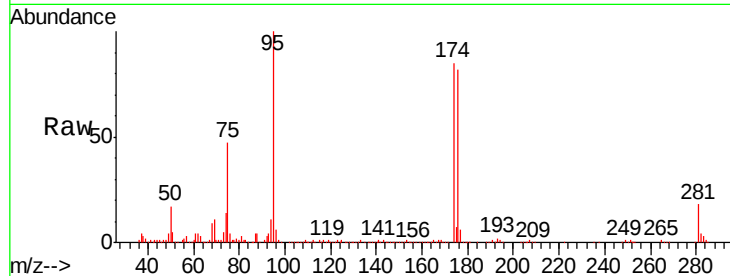
SB-4

Tgt Ion: 75 Resp: 111579

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#



#77

Bromobenzene

Concen: 5.692 ug/l

RT: 12.85 min Scan# 1796

Delta R.T. 0.11 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

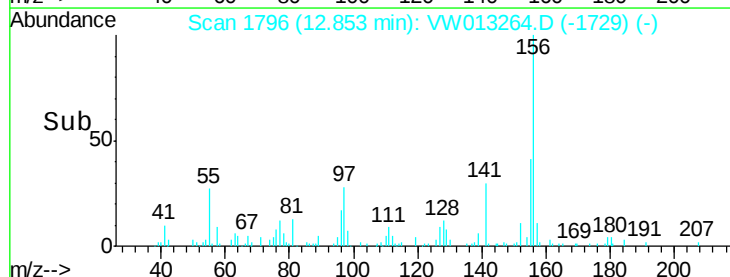
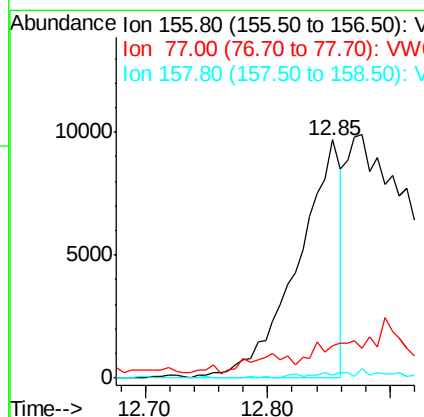
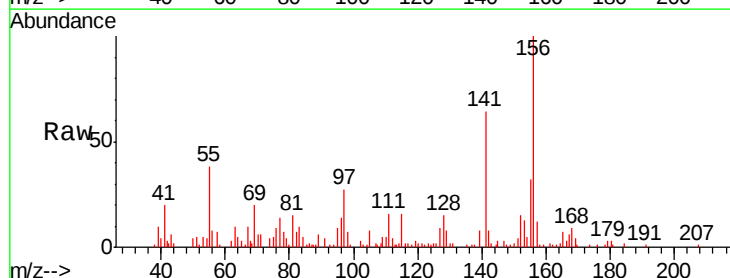
Tgt Ion: 156 Resp: 23761

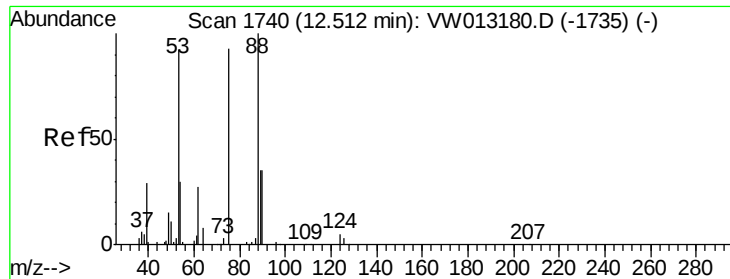
Ion Ratio Lower Upper

156 100

77 0.0 85.7 257.1#

158 1.0 48.1 144.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 118.880 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampleId :

SB-4

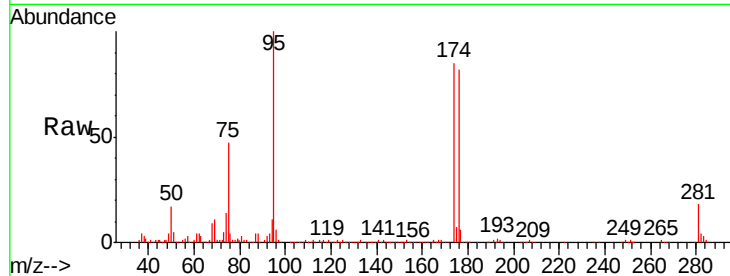
Tgt Ion: 75 Resp: 111579

Ion Ratio Lower Upper

75 100

53 0.2 76.6 114.8#

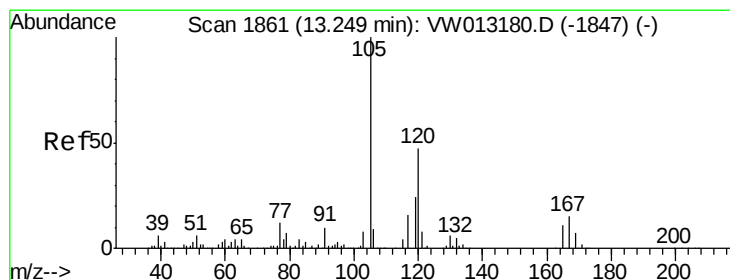
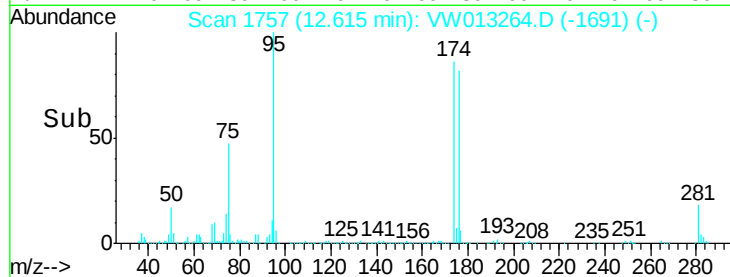
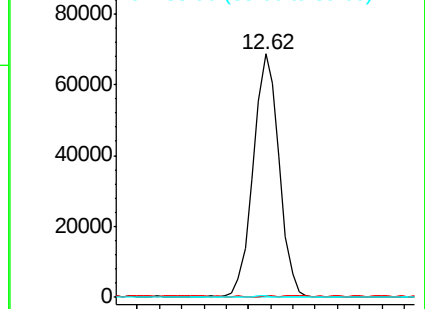
89 0.6 33.5 50.3#



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



#84

1,2,4-Trimethylbenzene

Concen: 2.719 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW013264.D

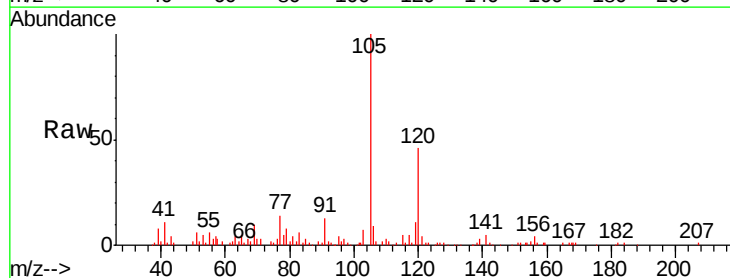
Acq: 24 Sep 2019 07:40

Tgt Ion: 105 Resp: 40072

Ion Ratio Lower Upper

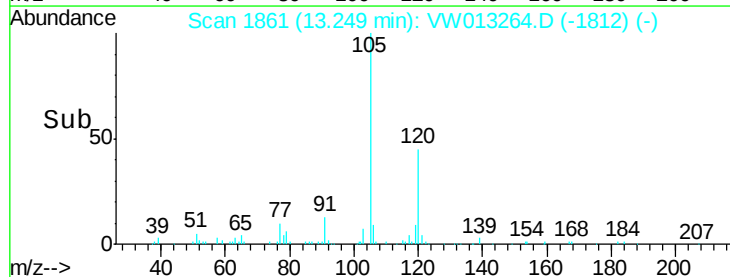
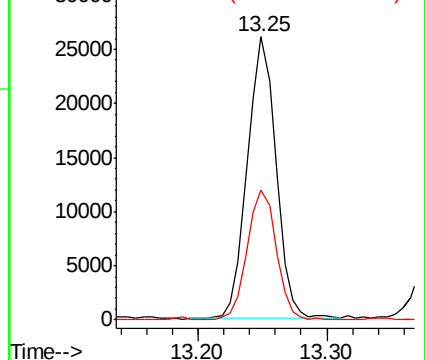
105 100

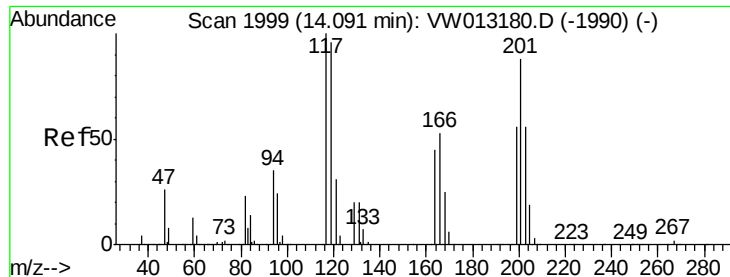
120 46.7 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 2.028 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

Instrument :

MSVOA_W

ClientSampleId :

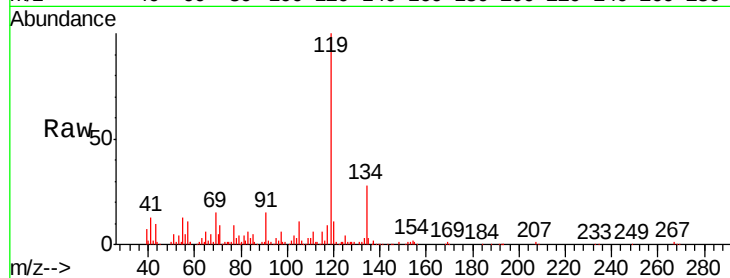
SB-4

Tgt Ion:117 Resp: 5663

Ion Ratio Lower Upper

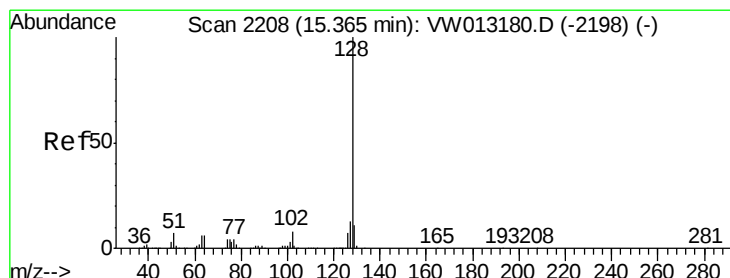
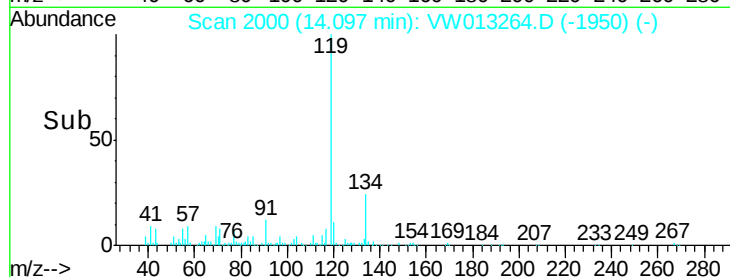
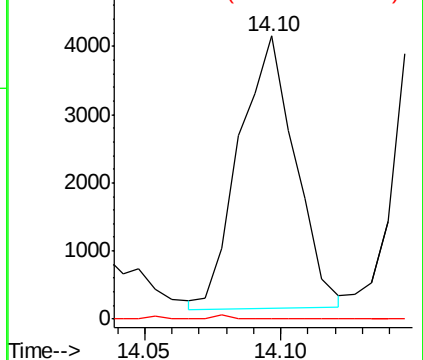
117 100

201 0.4 44.5 133.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 7.638 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013264.D

Acq: 24 Sep 2019 07:40

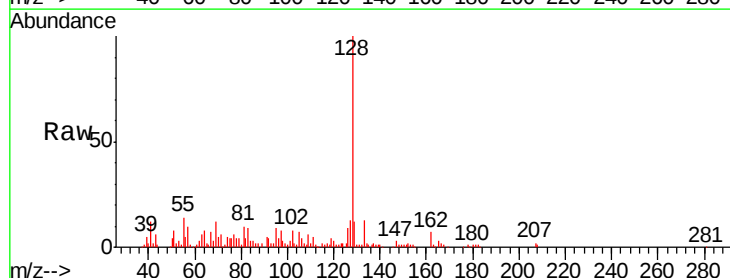
Tgt Ion:128 Resp: 62222

Ion Ratio Lower Upper

128 100

127 15.2 10.6 15.8

129 12.3 8.7 13.1



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

