

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092319\
 Data File : VW013232.D
 Acq On : 23 Sep 2019 15:38
 Operator : SY/VA
 Sample : K4918-08RE
 Misc : 3.47G/5ML/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-9RE

Quant Time: Sep 24 06:40:14 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	290577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	436642	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	268306	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	60777	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	127898	53.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.86%	
35) Dibromofluoromethane	7.88	113	126137	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
50) Toluene-d8	10.32	98	441308	43.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.82%	
62) 4-Bromofluorobenzene	12.62	95	90443	26.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.68%	

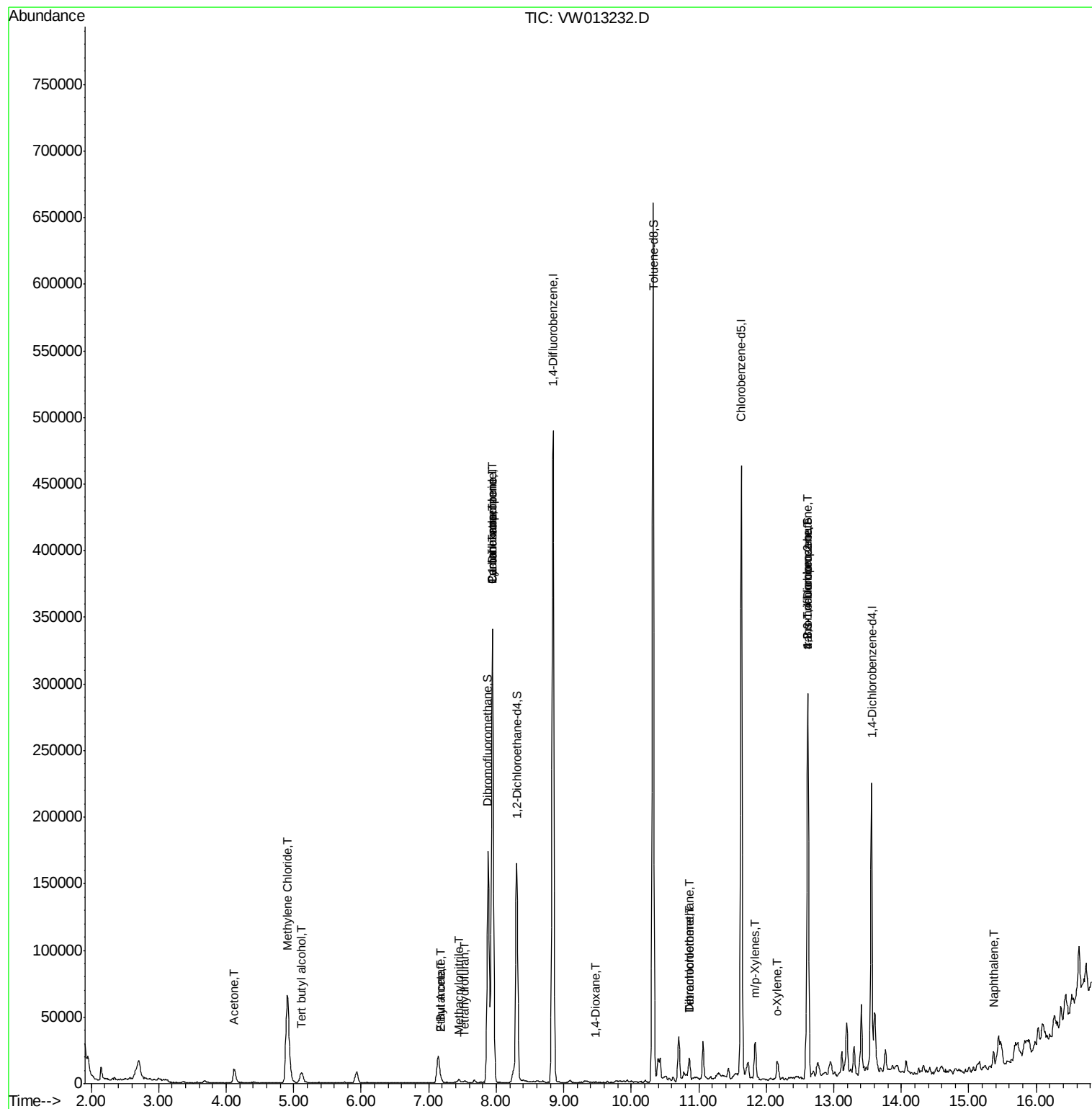
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	8261	39.894	ug/l #	73
16) Acetone	4.12	43	19661	36.763	ug/l	99
20) Methylene Chloride	4.91	84	58165	19.493	ug/l	93
25) 2-Butanone	7.18	43	3177	3.957	ug/l #	85
26) 2,2-Dichloropropane	7.14	77	1629	Below Cal	#	52
29) Tetrahydrofuran	7.52	42	1140	2.315	ug/l #	81
31) Cyclohexane	7.94	56	5165	1.005	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	19689	4.656	ug/l #	49
37) Ethyl Acetate	7.18	43	3177	1.768	ug/l #	69
38) Carbon Tetrachloride	7.94	117	25991	6.856	ug/l #	18
41) Methacrylonitrile	7.44	41	1222	1.139	ug/l #	47
49) 1,4-Dioxane	9.47	88	53	2.525	ug/l #	85
60) Dibromochloromethane	10.86	129	2891	1.218	ug/l #	11
64) Tetrachloroethene	10.86	164	3475	1.707	ug/l	90
68) m/p-Xylenes	11.83	106	9098	2.352	ug/l	98
69) o-Xylene	12.16	106	3869	1.076	ug/l	80
76) 1,2,3-Trichloropropane	12.62	75	42812	79.763	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	42812	178.981	ug/l #	12
95) Naphthalene	15.36	128	10270	4.947	ug/l #	95

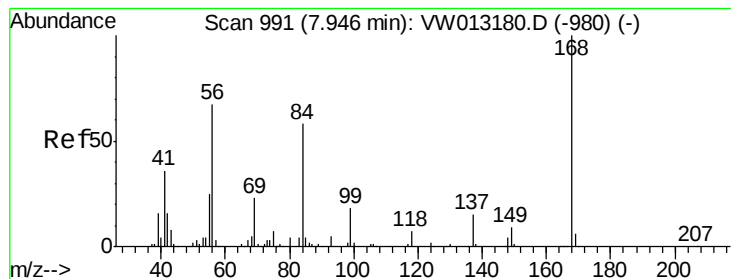
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013232.D

Acq: 23 Sep 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

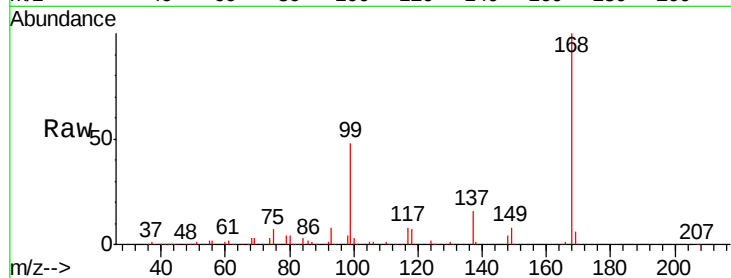
SB-9RE

Tgt Ion: 168 Resp: 290577

Ion Ratio Lower Upper

168 100

99 48.3 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

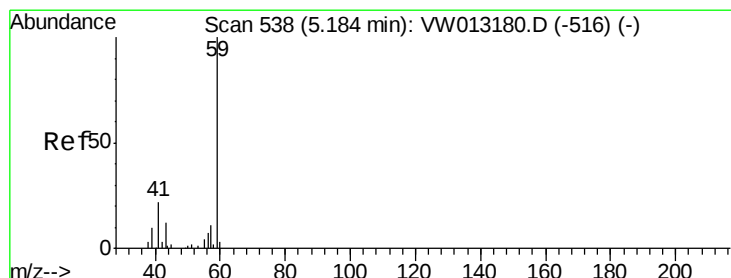
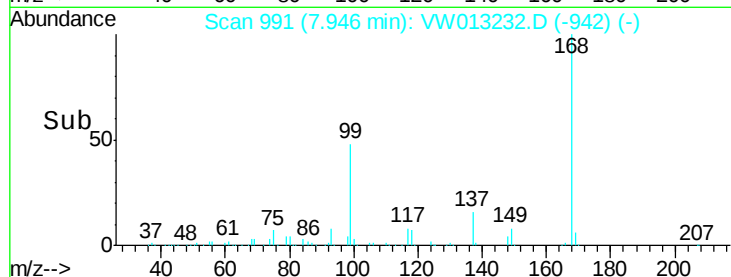
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 39.894 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.07 min

Lab File: VW013232.D

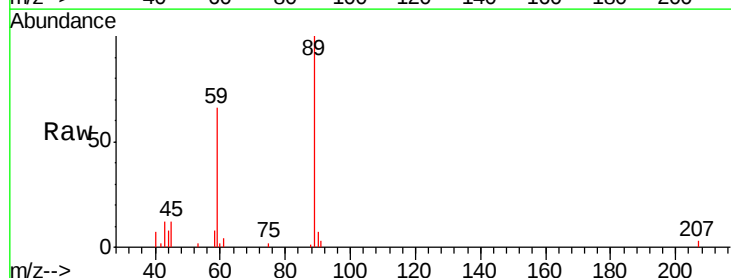
Acq: 23 Sep 2019 15:38

Tgt Ion: 59 Resp: 8261

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

5.12

2500

2000

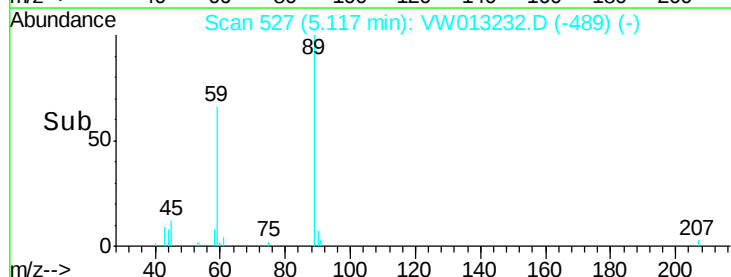
1500

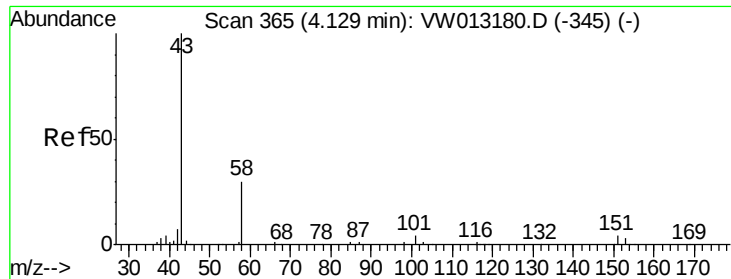
1000

500

0

Time--> 5.00 5.10 5.20





#16

Acetone

Concen: 36.763 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

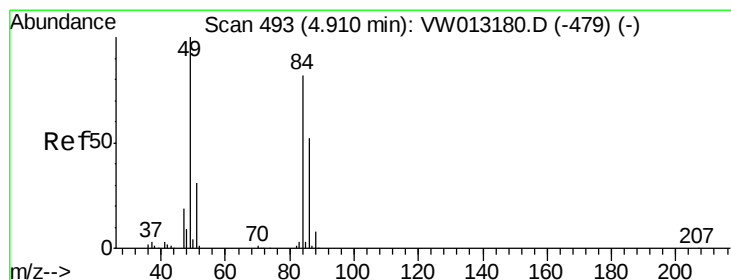
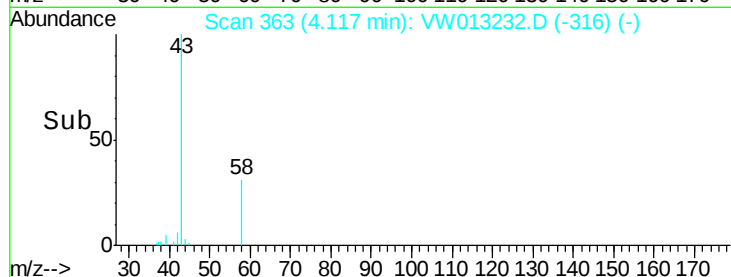
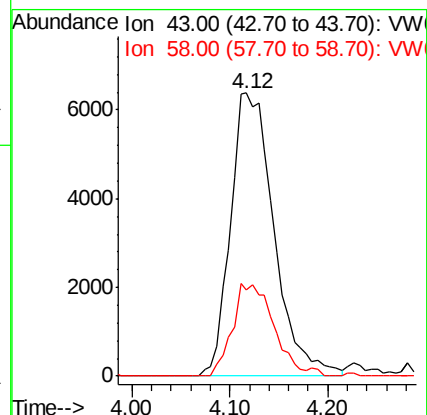
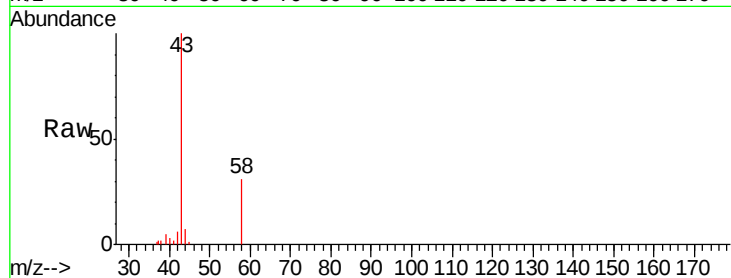
SB-9RE

Tgt Ion: 43 Resp: 19661

Ion Ratio Lower Upper

43 100

58 30.7 24.1 36.1



#20

Methylene Chloride

Concen: 19.493 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

Tgt Ion: 84 Resp: 58165

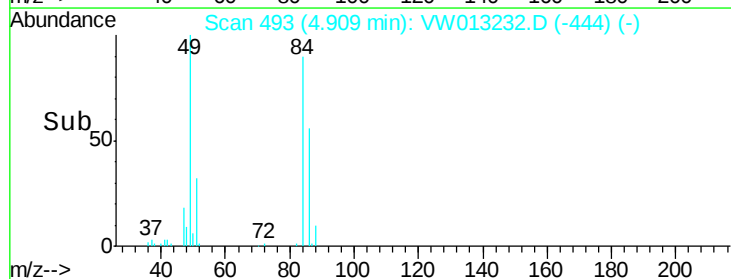
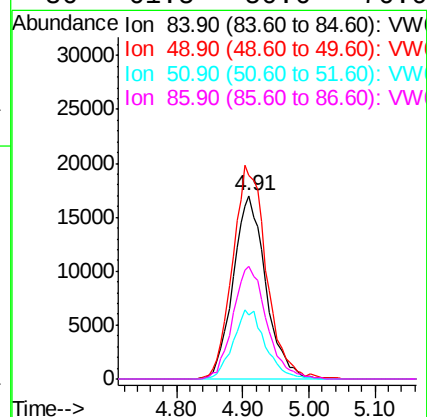
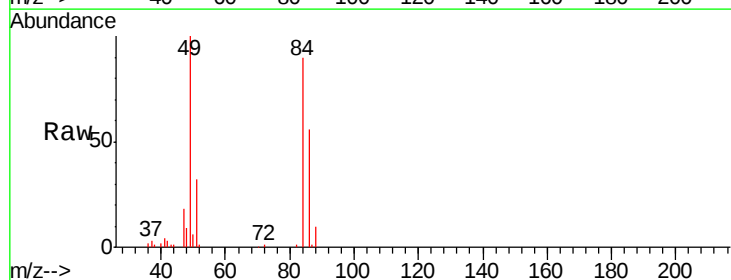
Ion Ratio Lower Upper

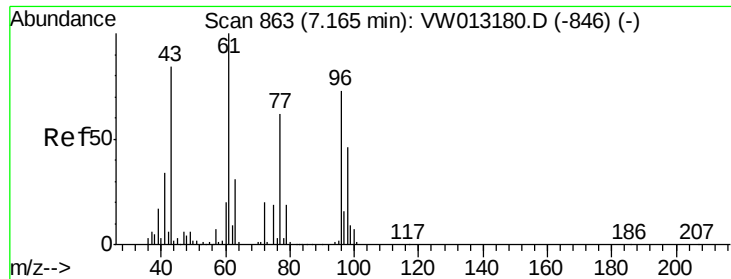
84 100

49 110.7 97.6 146.4

51 35.1 30.2 45.2

86 61.5 50.6 76.0





#25

2-Butanone

Concen: 3.957 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

Instrument :

MSVOA_W

ClientSampled :

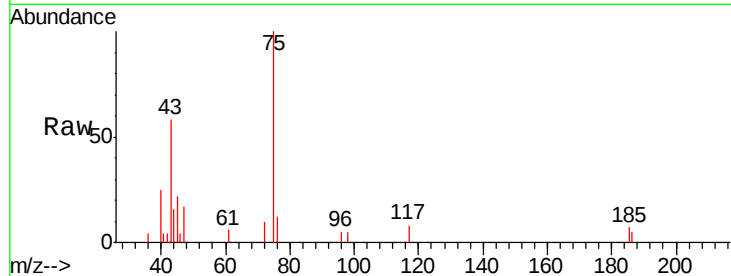
SB-9RE

Tgt Ion: 43 Resp: 3177

Ion Ratio Lower Upper

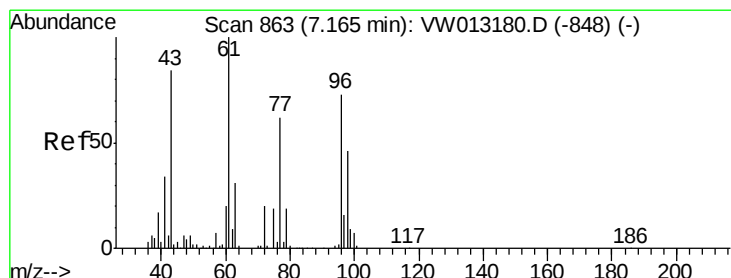
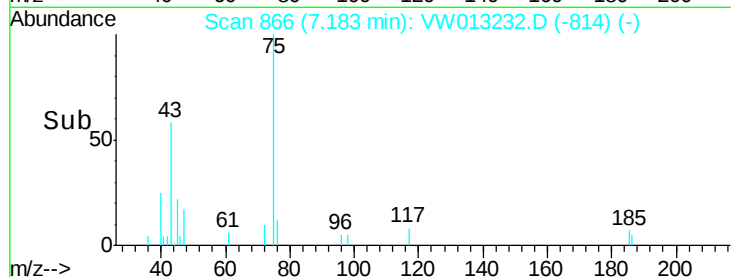
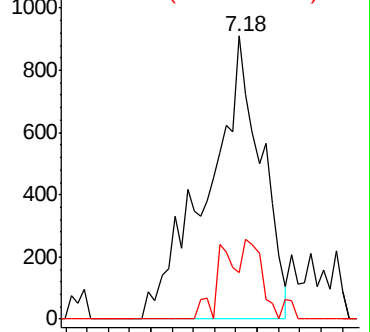
43 100

72 16.6 19.4 29.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW013232.D

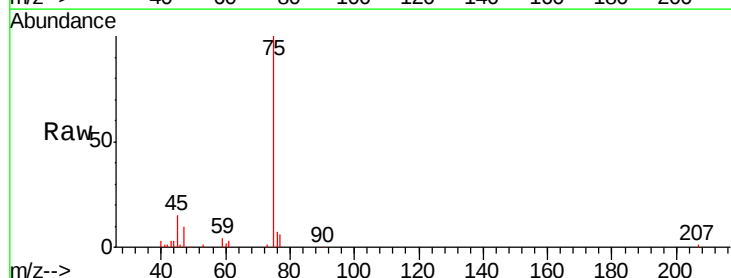
Acq: 23 Sep 2019 15:38

Tgt Ion: 77 Resp: 1629

Ion Ratio Lower Upper

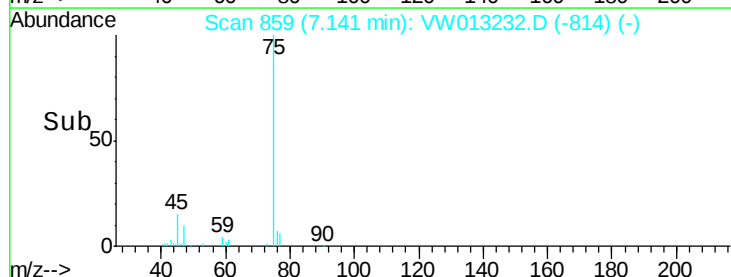
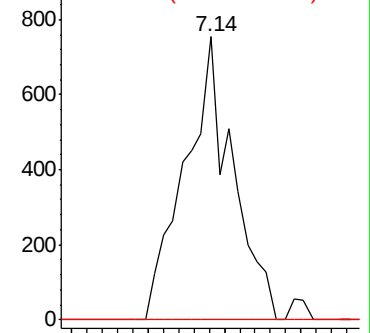
77 100

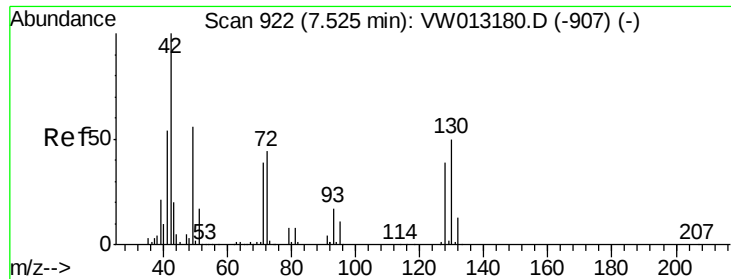
97 0.0 11.8 35.4#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

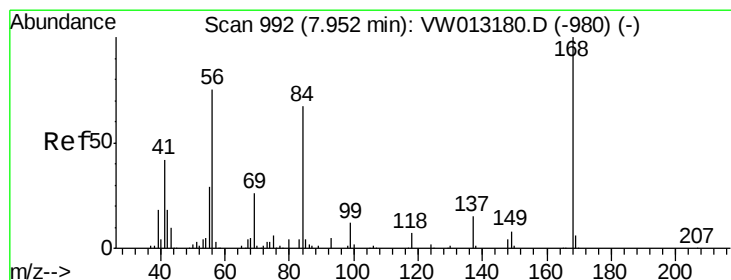
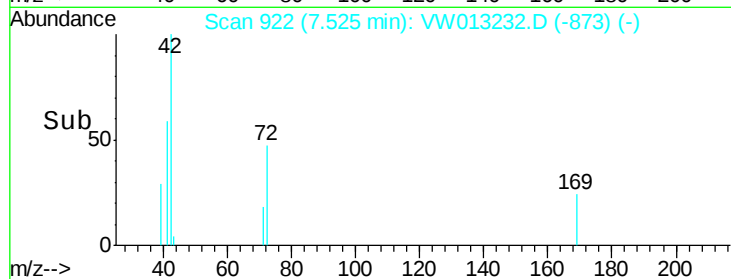
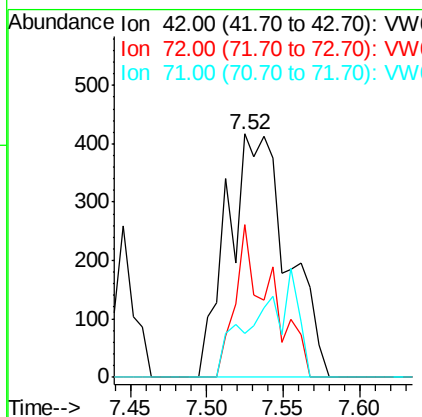
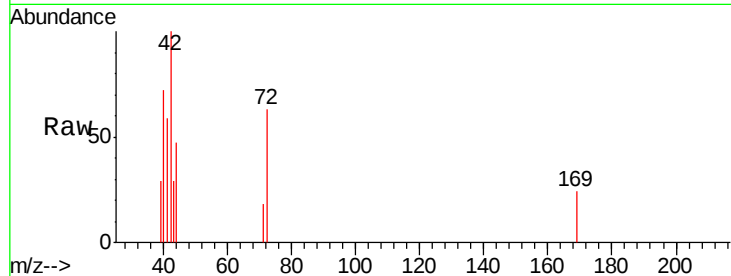




#29
Tetrahydrofuran
Concen: 2.315 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.00 min
Lab File: VW013232.D
Acq: 23 Sep 2019 15:38

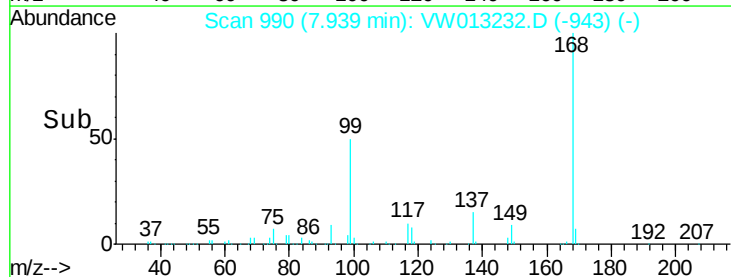
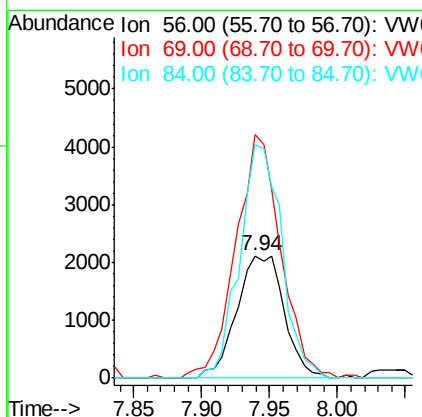
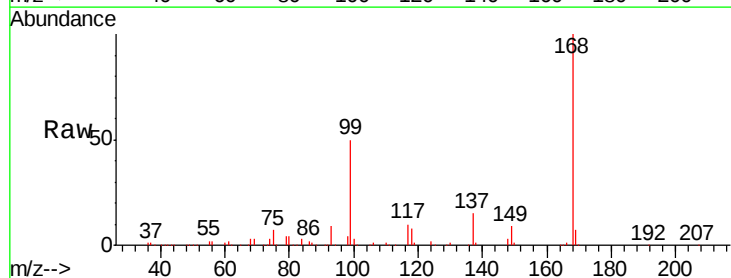
Instrument :
MSVOA_W
ClientSampled :
SB-9RE

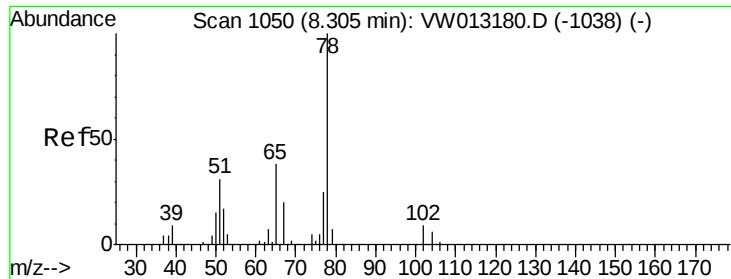
Tgt Ion: 42 Resp: 1140
Ion Ratio Lower Upper
42 100
72 36.9 33.9 50.9
71 21.1 31.9 47.9#



#31
Cyclohexane
Concen: 1.005 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW013232.D
Acq: 23 Sep 2019 15:38

Tgt Ion: 56 Resp: 5165
Ion Ratio Lower Upper
56 100
69 199.3 27.2 40.8#
84 191.3 70.8 106.2#

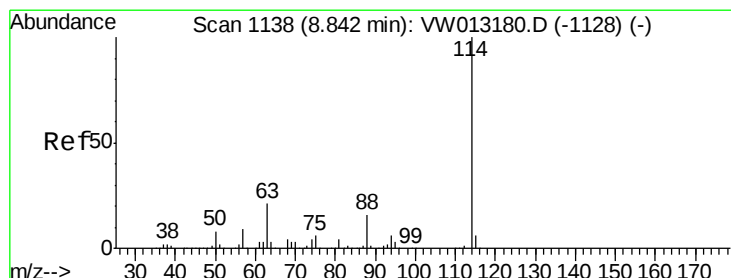
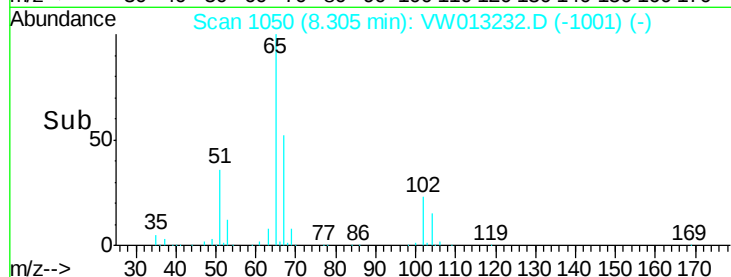
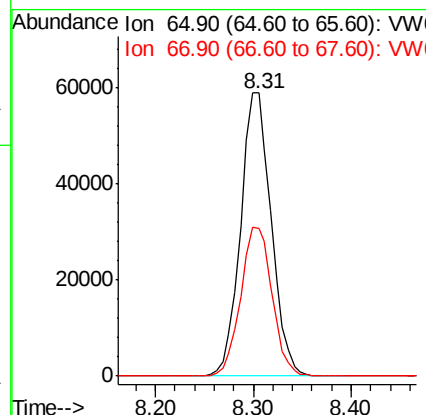
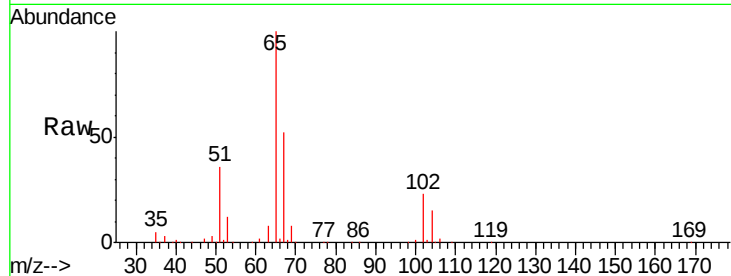




#33
 1,2-Dichloroethane-d4
 Concen: 53.931 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013232.D
 Acq: 23 Sep 2019 15:38

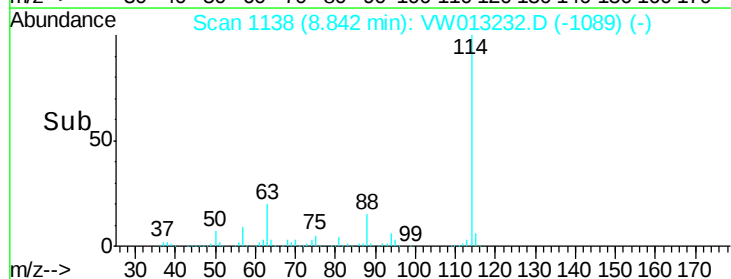
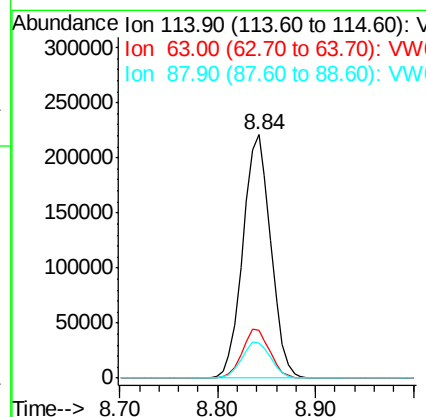
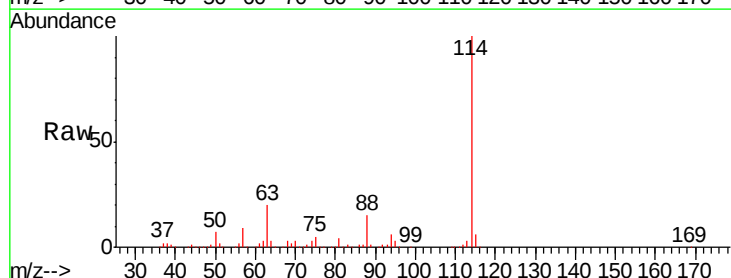
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-9RE

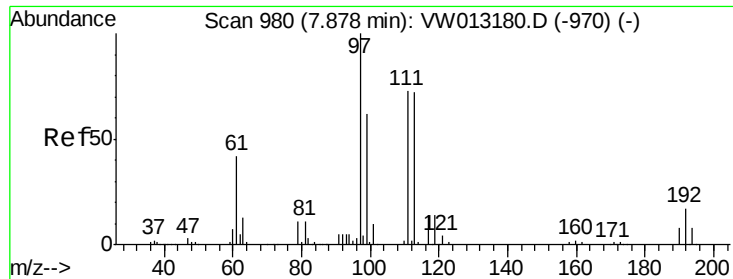
Tgt Ion: 65 Resp: 127898
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013232.D
 Acq: 23 Sep 2019 15:38

Tgt Ion: 114 Resp: 436642
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.4
 88 14.6 0.0 32.0

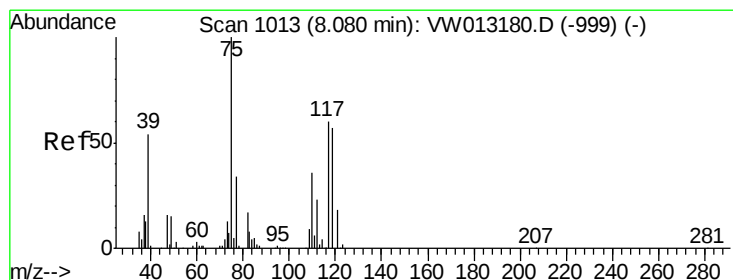
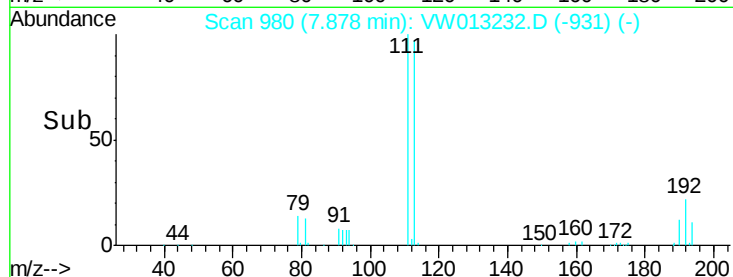
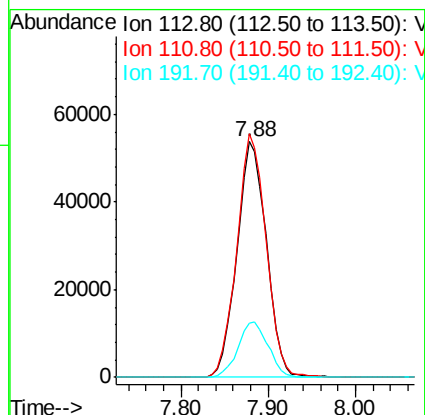
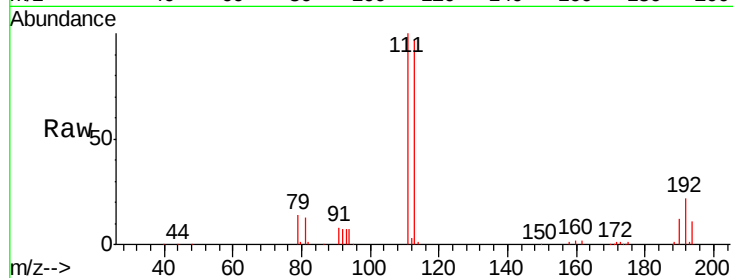




#35
 Dibromofluoromethane
 Concen: 52.524 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013232.D
 Acq: 23 Sep 2019 15:38

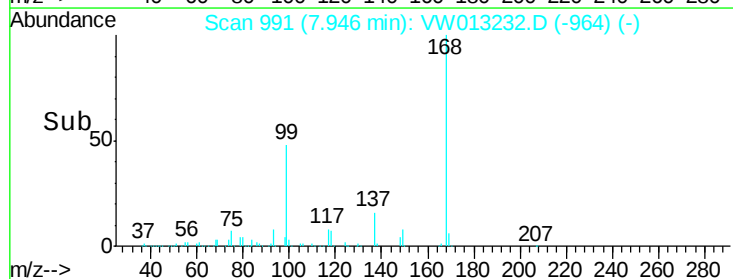
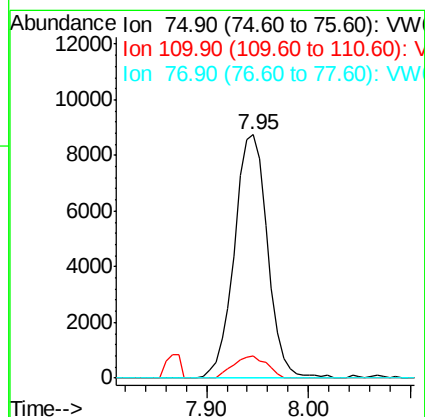
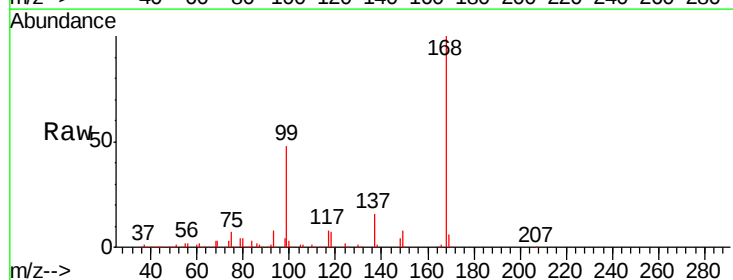
Instrument :
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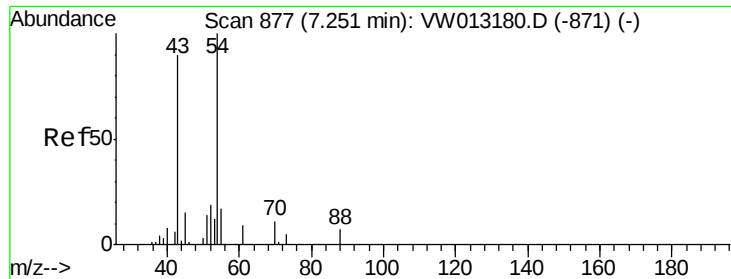
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	23.9	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 4.656 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013232.D
 Acq: 23 Sep 2019 15:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.1	54.3#
77	0.0	25.8	38.6#

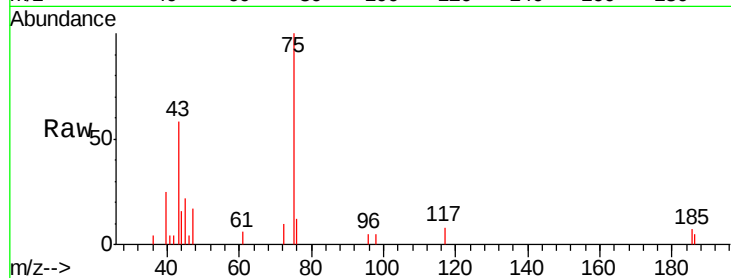




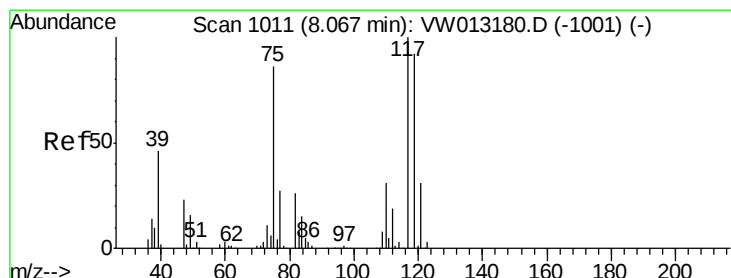
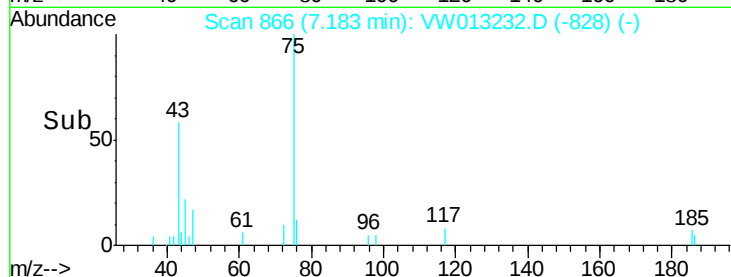
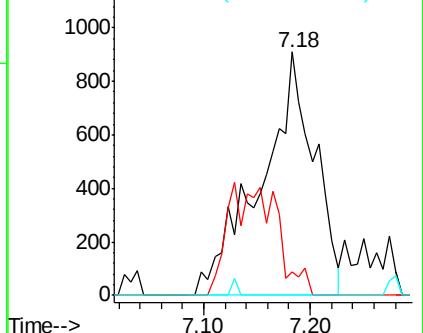
#37
Ethyl Acetate
Concen: 1.768 ug/l
RT: 7.18 min Scan# 866
Delta R.T. -0.07 min
Lab File: VW013232.D
Acq: 23 Sep 2019 15:38

Instrument :
MSVOA_W
ClientSampleId :
SB-9RE

Tgt Ion: 43 Resp: 3177
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 8.2 12.2#

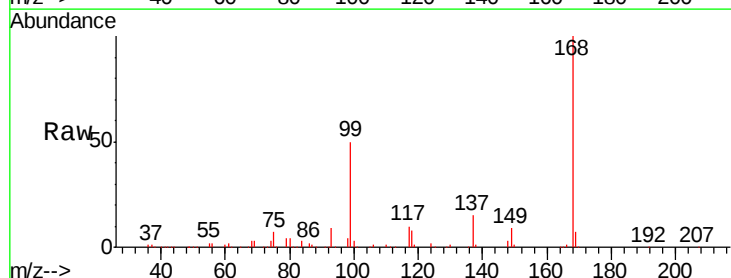


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW

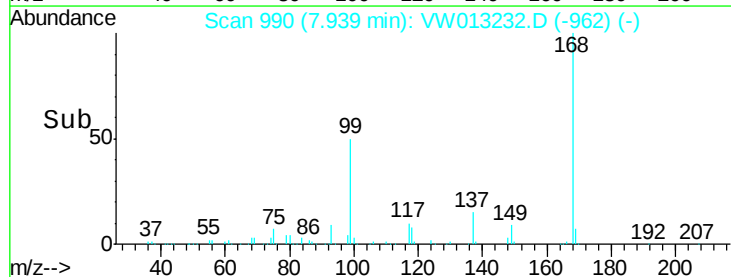
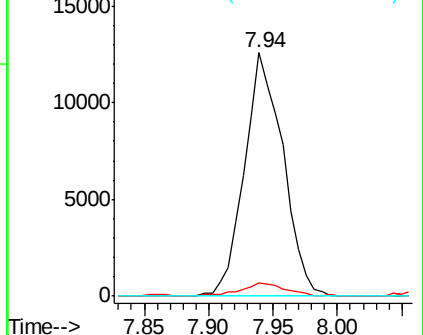


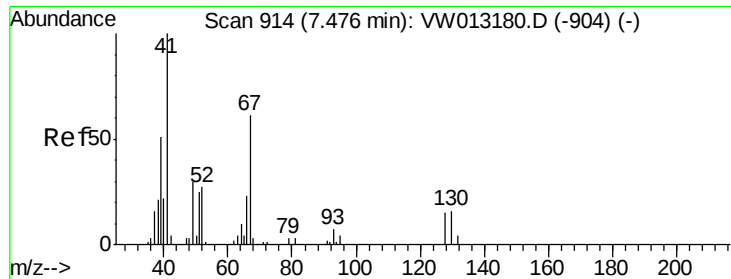
#38
Carbon Tetrachloride
Concen: 6.856 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW013232.D
Acq: 23 Sep 2019 15:38

Tgt Ion: 117 Resp: 25991
Ion Ratio Lower Upper
117 100
119 5.4 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





#41

Methacrylonitrile

Concen: 1.139 ug/l

RT: 7.44 min Scan# 908

Delta R.T. -0.04 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

Instrument :

MSVOA_W

ClientSampled :

SB-9RE

Tgt Ion: 41 Resp: 1222

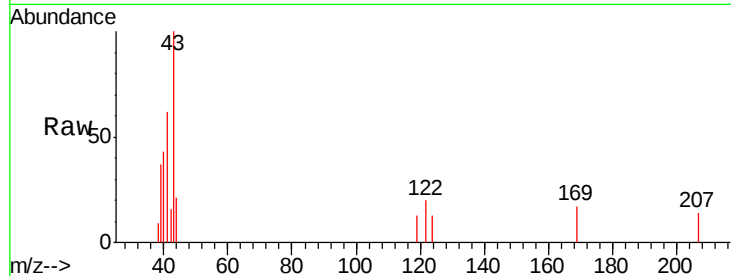
Ion Ratio Lower Upper

41 100

39 46.1 45.9 68.9

67 0.0 54.5 81.7#

52 0.0 22.5 33.7#

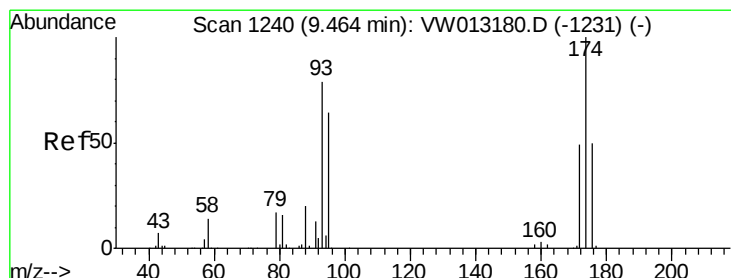
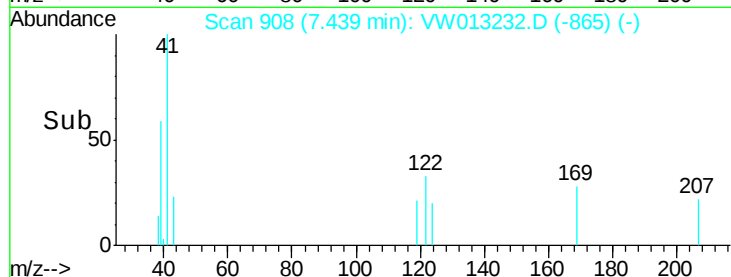
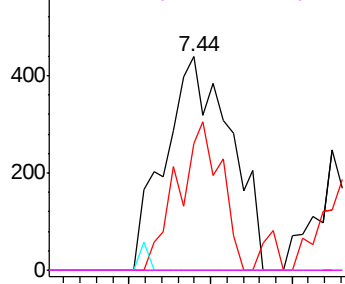


Abundance Ion 41.00 (40.70 to 41.70): VW

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



#49

1,4-Dioxane

Concen: 2.525 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

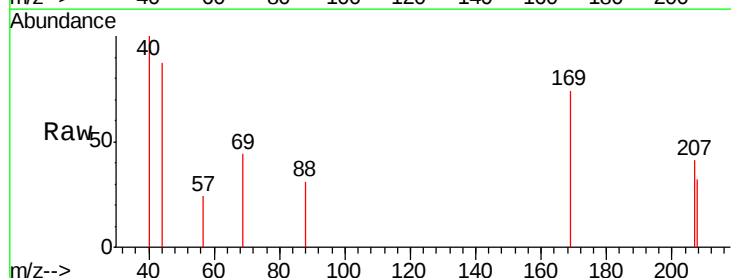
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 83.0 0.0 0.0#

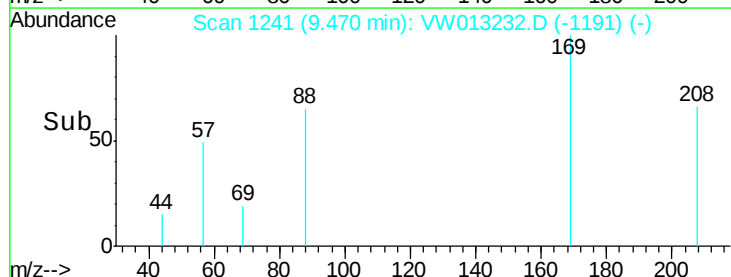
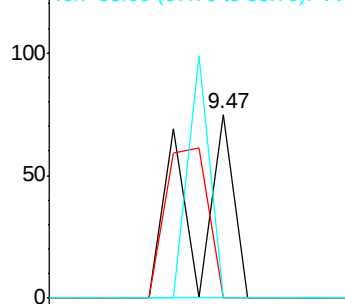
58 67.9 65.4 98.0

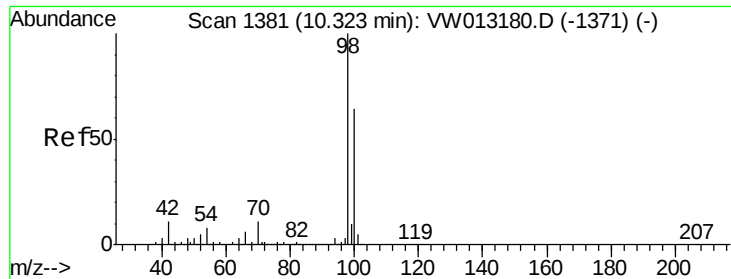


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 43.908 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

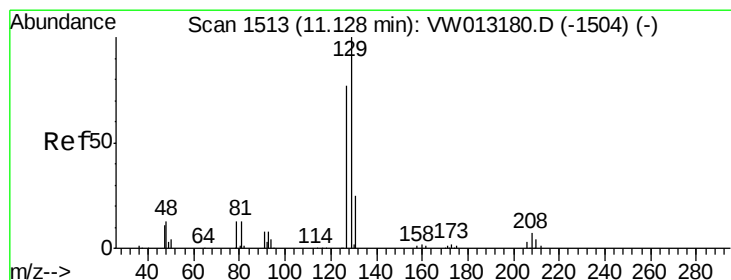
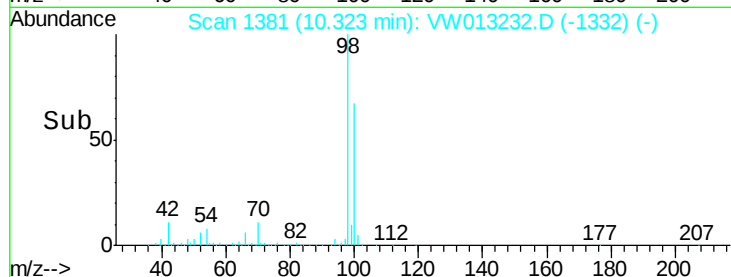
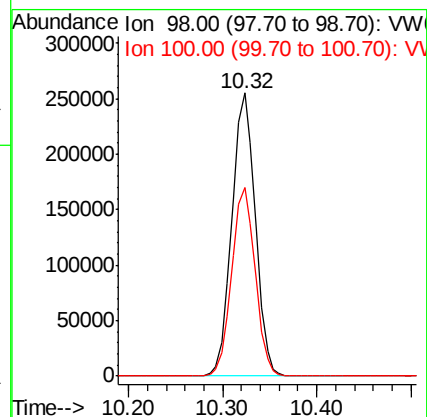
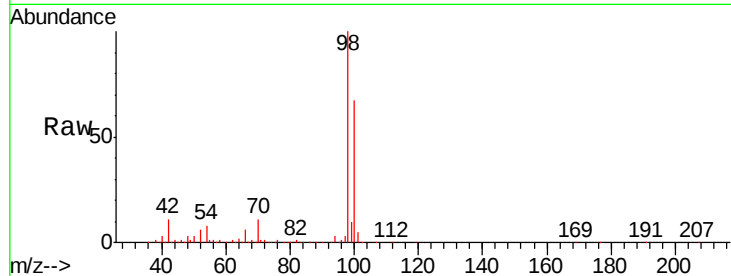
SB-9RE

Tgt Ion: 98 Resp: 441308

Ion Ratio Lower Upper

98 100

100 66.4 52.9 79.3



#60

Dibromochloromethane

Concen: 1.218 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW013232.D

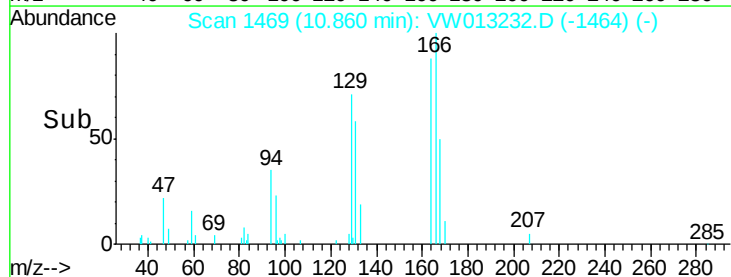
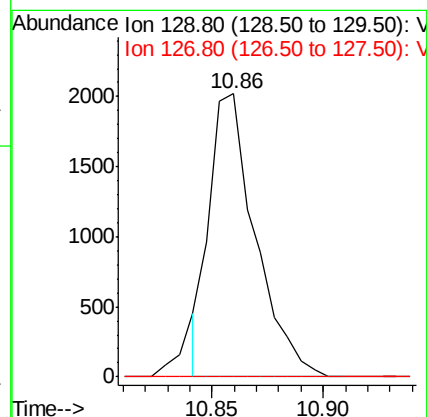
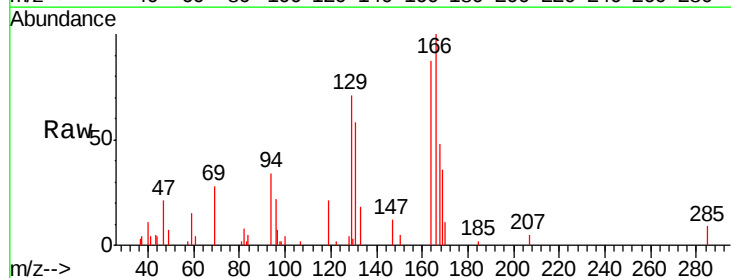
Acq: 23 Sep 2019 15:38

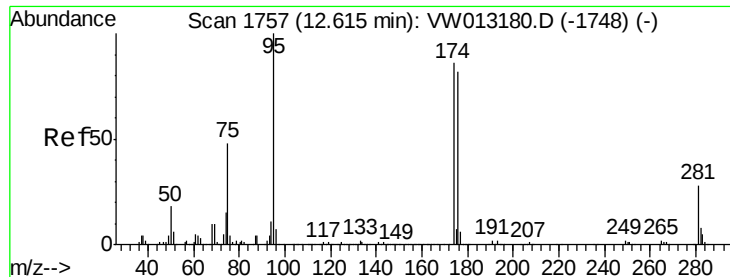
Tgt Ion: 129 Resp: 2891

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#





#62

4-Bromofluorobenzene

Concen: 26.343 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

SB-9RE

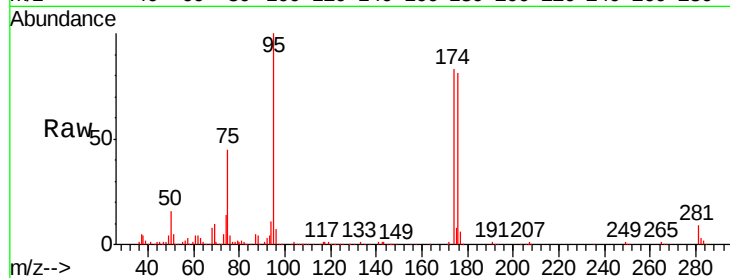
Tgt Ion: 95 Resp: 90443

Ion Ratio Lower Upper

95 100

174 90.6 0.0 178.4

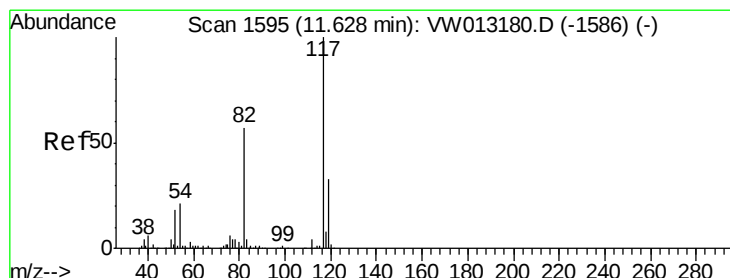
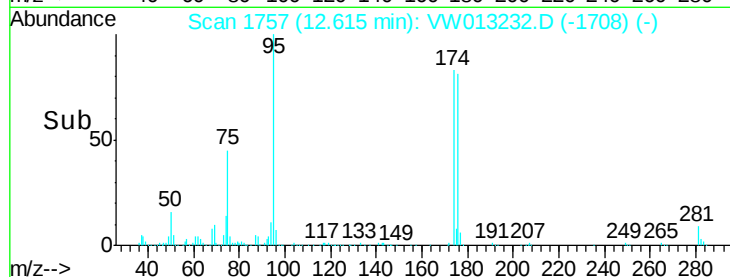
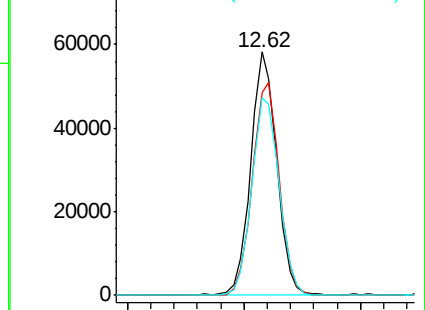
176 86.3 0.0 172.2



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: VW013232.D

Acq: 23 Sep 2019 15:38

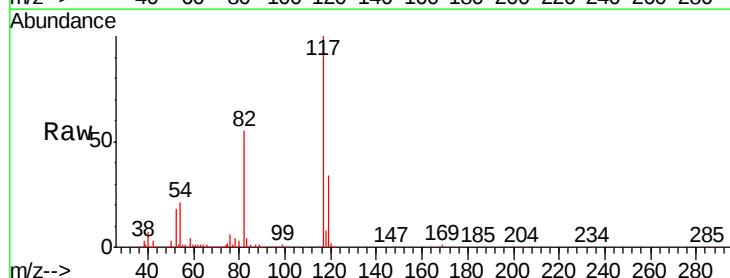
Tgt Ion: 117 Resp: 268306

Ion Ratio Lower Upper

117 100

82 54.5 45.9 68.9

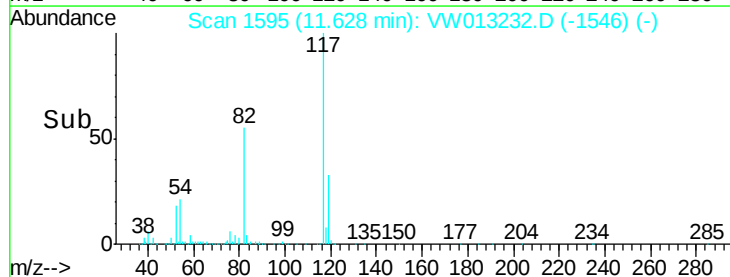
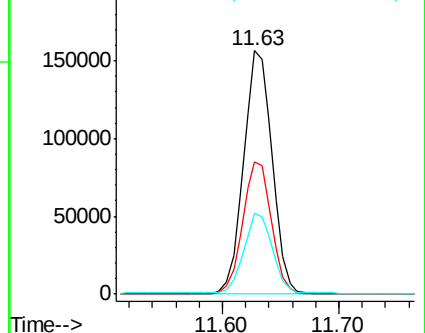
119 33.2 26.2 39.2

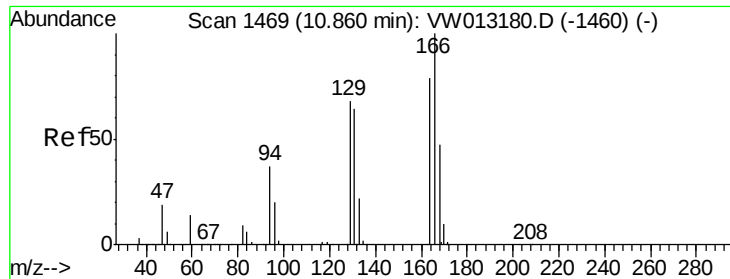


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#64

Tetrachloroethene

Concen: 1.707 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

SB-9RE

Tgt Ion:164 Resp: 3475

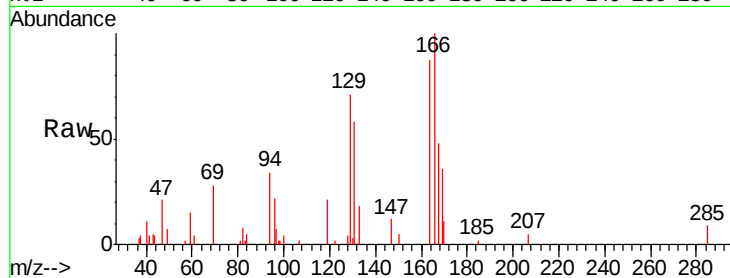
Ion Ratio Lower Upper

164 100

166 115.1 101.2 151.8

129 81.5 68.8 103.2

131 67.2 65.2 97.8

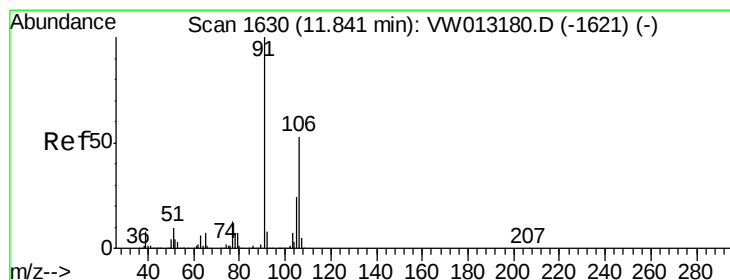
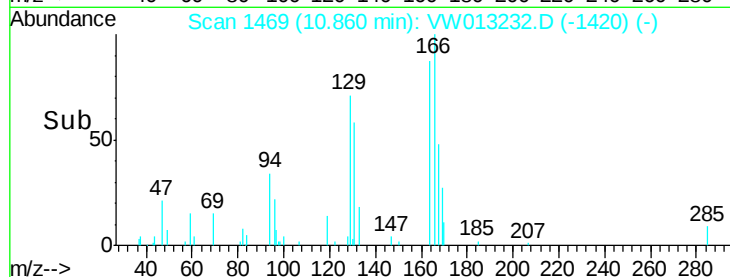
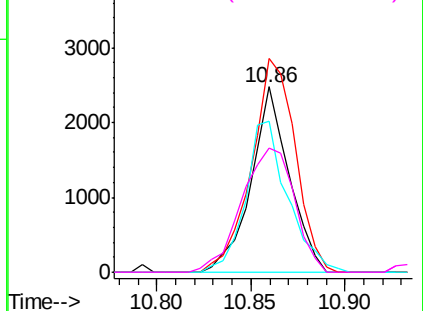


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#68

m/p-Xylenes

Concen: 2.352 ug/l

RT: 11.83 min Scan# 1628

Delta R.T. -0.01 min

Lab File: VW013232.D

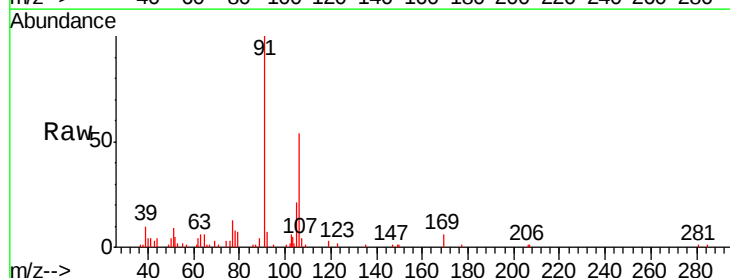
Acq: 23 Sep 2019 15:38

Tgt Ion:106 Resp: 9098

Ion Ratio Lower Upper

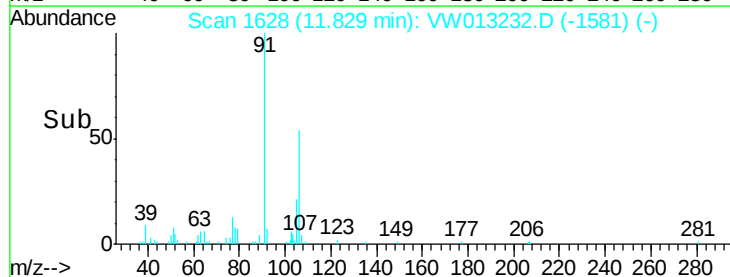
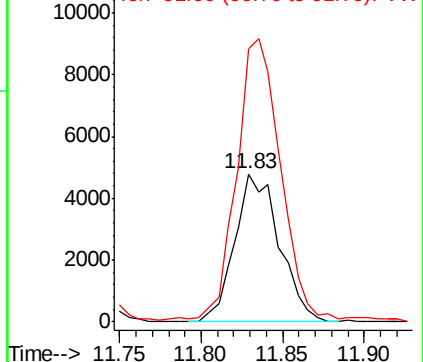
106 100

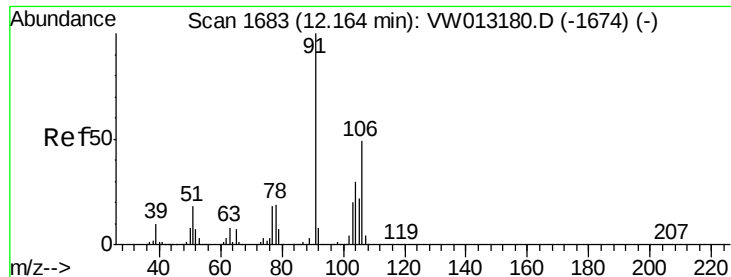
91 193.9 157.9 236.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV

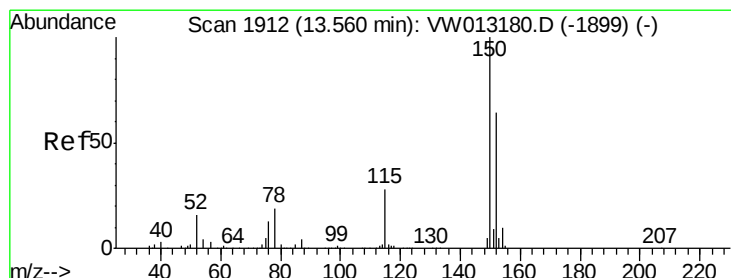
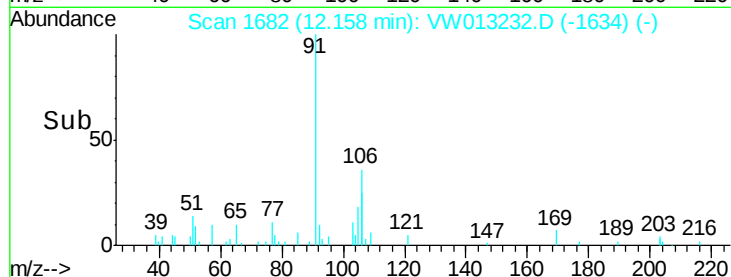
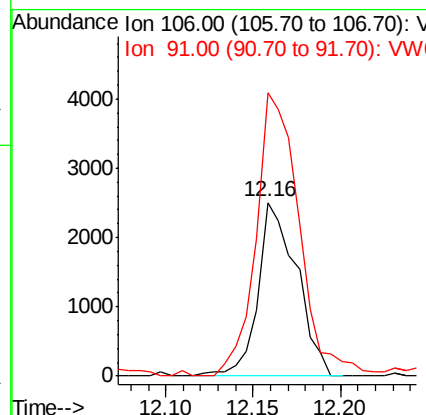
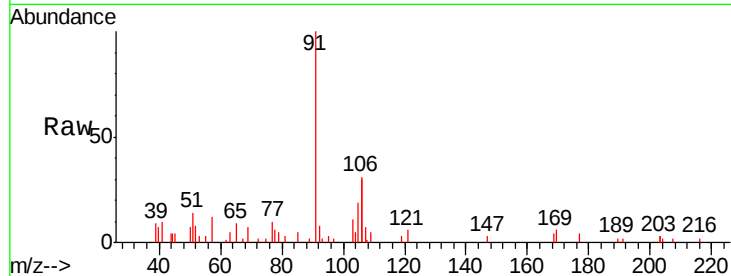




#69
o-Xylene
Concen: 1.076 ug/l
RT: 12.16 min Scan# 1682
Delta R.T. -0.01 min
Lab File: VW013232.D
Acq: 23 Sep 2019 15:38

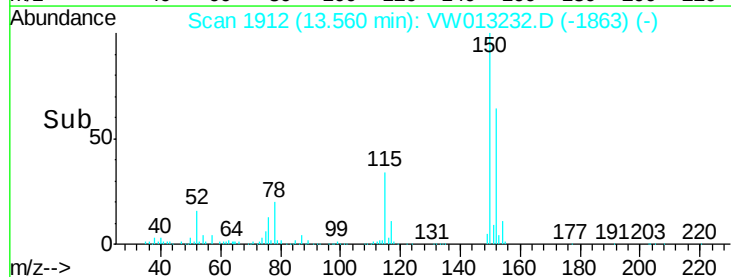
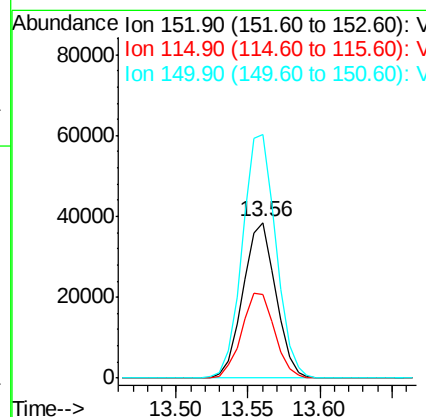
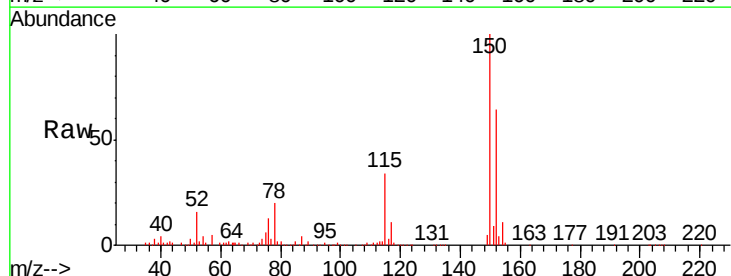
Instrument :
MSVOA_W
ClientSampleId :
SB-9RE

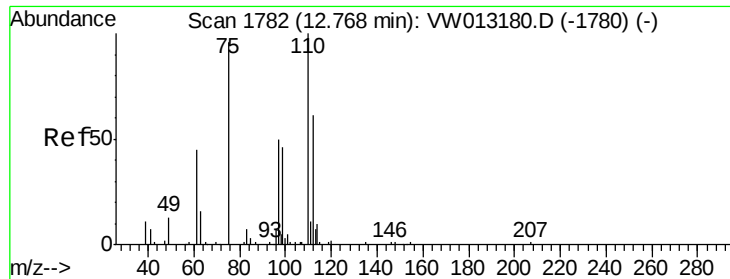
Tgt Ion:106 Resp: 3869
Ion Ratio Lower Upper
106 100
91 181.1 106.5 319.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW013232.D
Acq: 23 Sep 2019 15:38

Tgt Ion:152 Resp: 60777
Ion Ratio Lower Upper
152 100
115 55.2 27.3 81.9
150 159.9 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 79.763 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

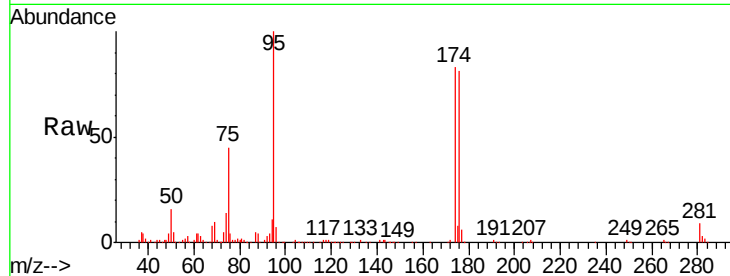
SB-9RE

Tgt Ion: 75 Resp: 42812

Ion Ratio Lower Upper

75 100

77 2.3 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

25000

20000

15000

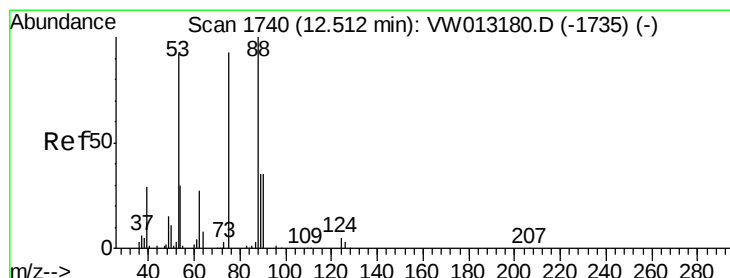
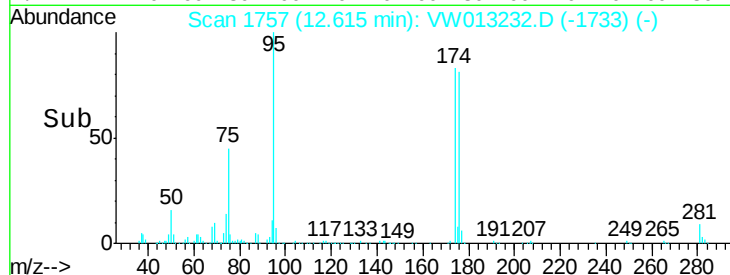
10000

5000

0

Time-->

12.60 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 178.981 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013232.D

Acq: 23 Sep 2019 15:38

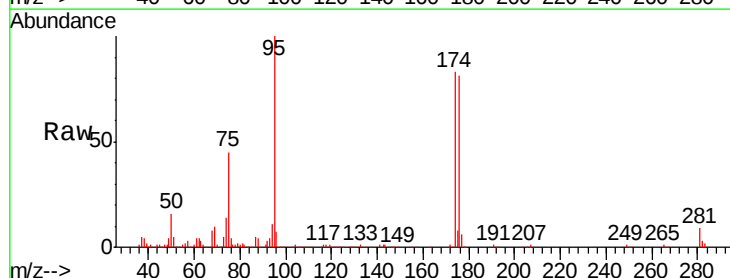
Tgt Ion: 75 Resp: 42812

Ion Ratio Lower Upper

75 100

53 0.0 76.6 114.8#

89 0.2 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

12.62

30000

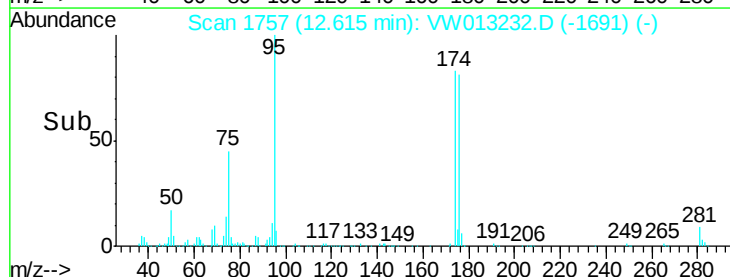
20000

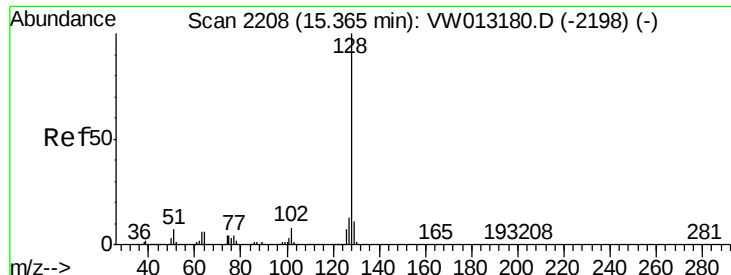
10000

0

Time-->

12.60 12.70

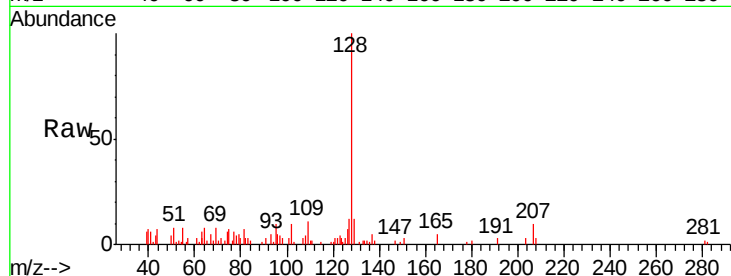




#95
Naphthalene
Concen: 4.947 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW013232.D
Acq: 23 Sep 2019 15:38

Instrument :
MSVOA_W
ClientSampleId :
SB-9RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	16.3	10.6	15.8#
129	11.6	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

