

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111319\
 Data File : VW013997.D
 Acq On : 13 Nov 2019 11:04
 Operator : SY/VA
 Sample : K5786-02RE
 Misc : 7.06G/5.0ML/MSVOA W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

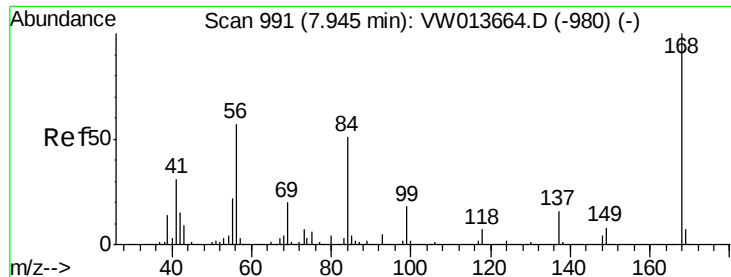
Quant Time: Nov 14 05:52:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 23 14:11:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	281279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	442391	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	368104	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	146345	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	122018	57.83	ug/l	0.00
Spiked Amount			Recovery	=	115.66%	
35) Dibromofluoromethane	7.88	113	102270	41.60	ug/l	0.00
Spiked Amount			Recovery	=	83.20%	
50) Toluene-d8	10.32	98	510341	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.62	95	151741	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	235	1.866	ug/l #	71
16) Acetone	4.12	43	21453	47.951	ug/l	94
20) Methylene Chloride	4.91	84	6924	Below Cal	#	88
25) 2-Butanone	7.18	43	2680	4.167	ug/l #	74
28) Bromochloromethane	7.67	49	10822	7.937	ug/l #	7
30) Chloroform	7.68	83	151669	34.238	ug/l	99
36) 1,1-Dichloropropene	7.94	75	18532	4.498	ug/l #	49
38) Carbon Tetrachloride	7.95	117	24431	6.585	ug/l #	15
47) Bromodichloromethane	9.65	83	9223	2.637	ug/l #	94
60) Dibromochloromethane	11.13	129	2968	1.241	ug/l	89
76) 1,2,3-Trichloropropane	12.62	75	71204	67.751	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	71204	128.041	ug/l #	14

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013997.D

Acq: 13 Nov 2019 11:04

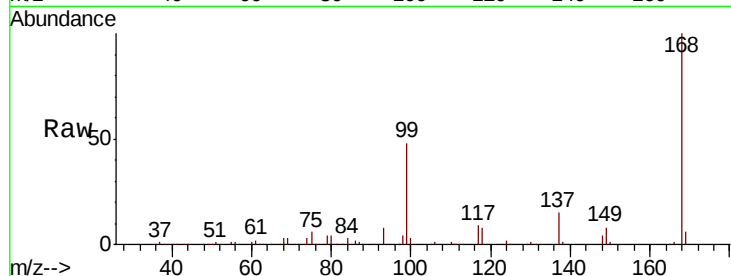
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 281279

Ion Ratio Lower Upper

168 100

99 48.1 39.0 58.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

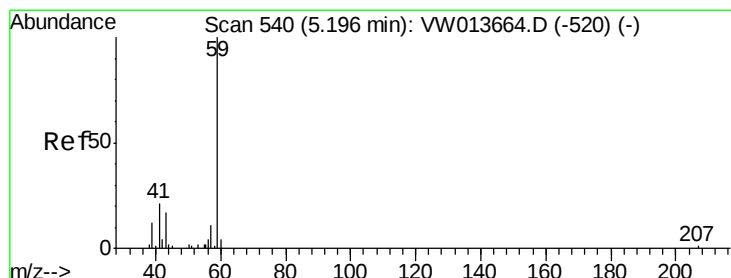
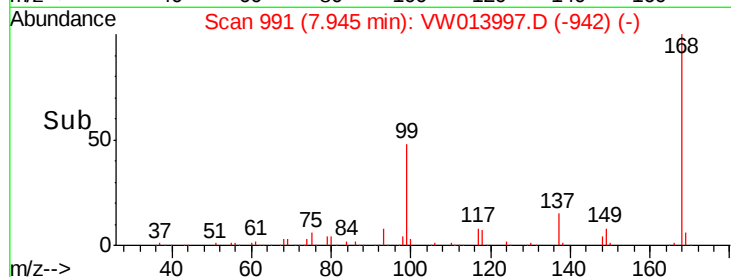
100000

50000

0

Time-->

7.90 8.00



#11

Tert butyl alcohol

Concen: 1.866 ug/l

RT: 5.21 min Scan# 543

Delta R.T. 0.02 min

Lab File: VW013997.D

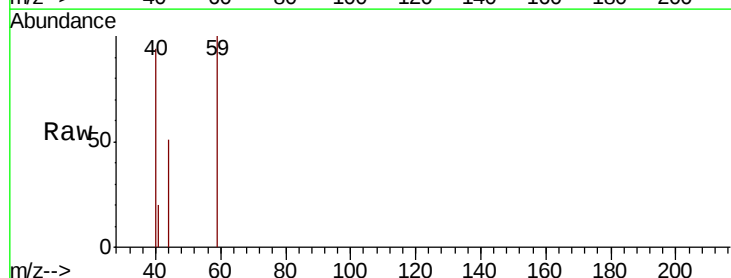
Acq: 13 Nov 2019 11:04

Tgt Ion: 59 Resp: 235

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.21

500

400

300

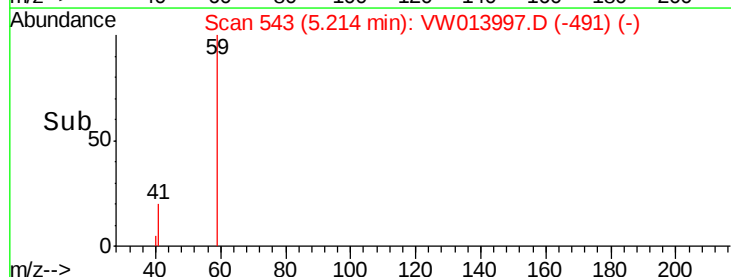
200

100

0

Time-->

5.20 5.21 5.22 5.23 5.24

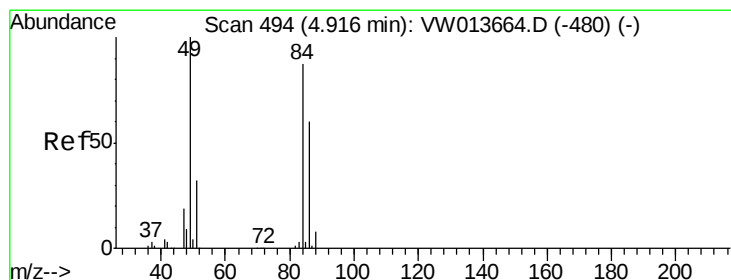
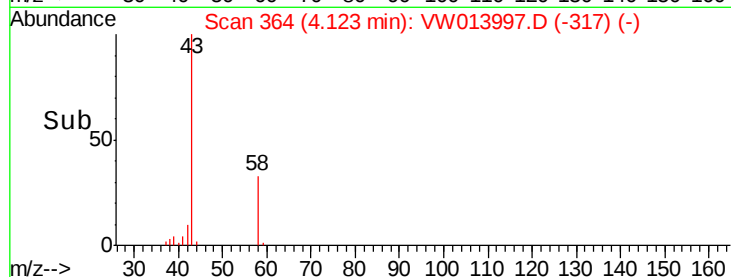
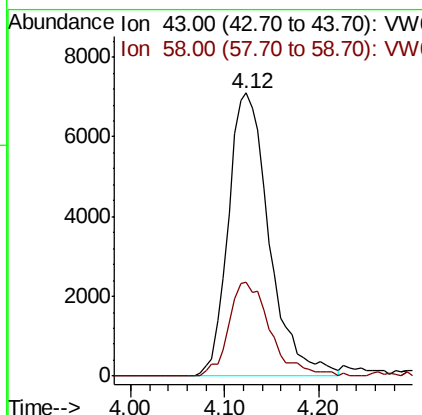
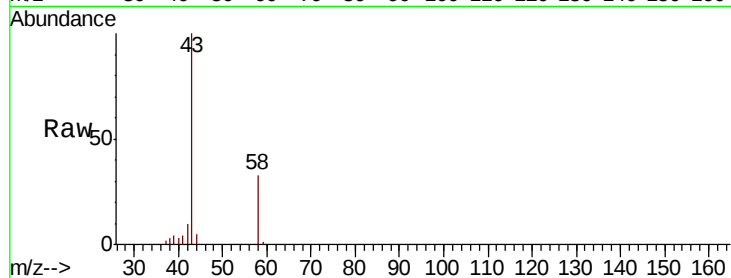




#16
Acetone
Concen: 47.951 ug/l
RT: 4.12 min Scan# 364
Delta R.T. -0.01 min
Lab File: VW013997.D
Acq: 13 Nov 2019 11:04

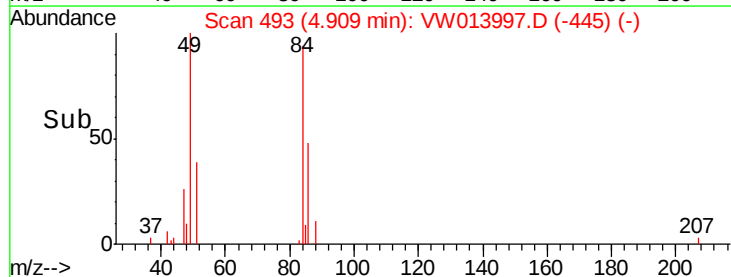
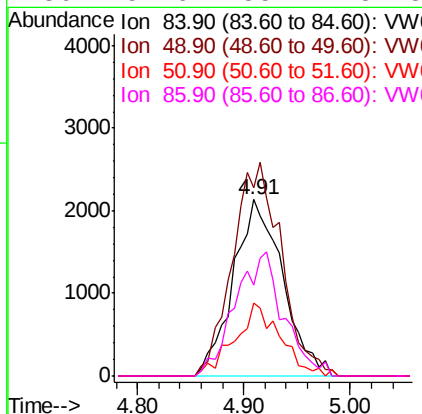
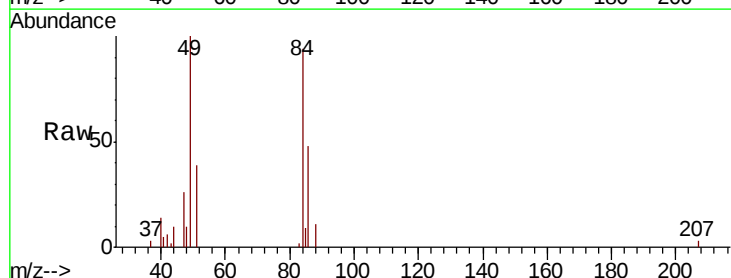
Instrument :
MSVOA_W
ClientSampleId :

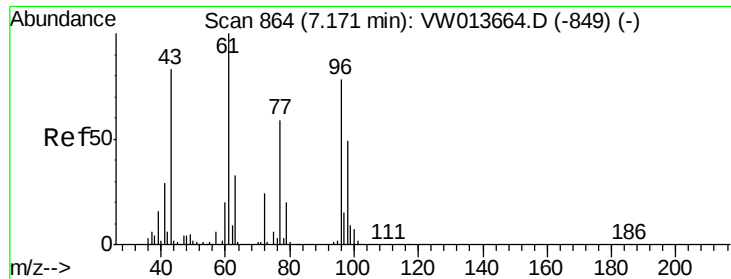
Tot Ion: 43 Resp: 21453
Ion Ratio Lower Upper
43 100
58 33.2 24.1 36.1



#20
Methylene Chloride
Concen: Below Cal
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW013997.D
Acq: 13 Nov 2019 11:04

Tgt Ion: 84 Resp: 6924
Ion Ratio Lower Upper
84 100
49 106.4 91.8 137.6
51 41.2 29.8 44.6
86 51.6 55.2 82.8#





#25

2-Butanone

Concen: 4.167 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW013997.D

Acq: 13 Nov 2019 11:04

Instrument :

MSVOA_W

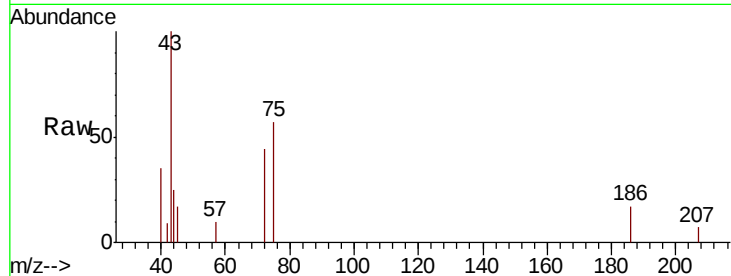
ClientSampled :

Tot Ion: 43 Resp: 2680

Ion Ratio Lower Upper

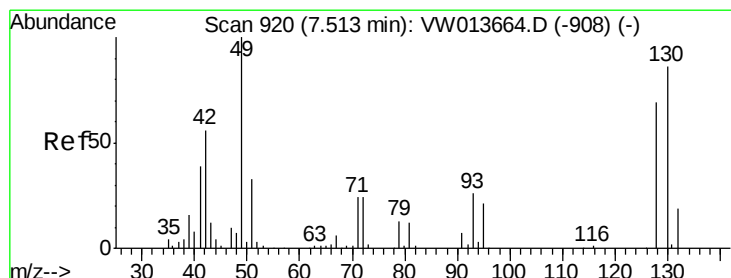
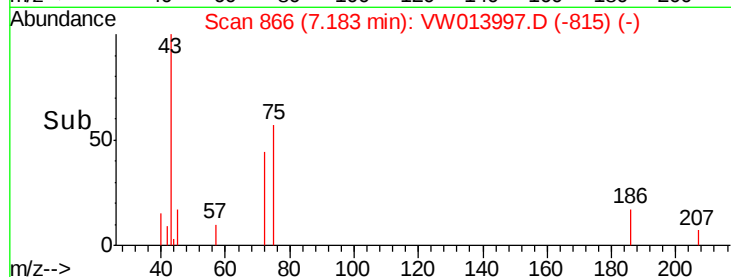
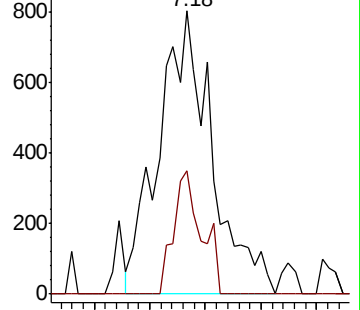
43 100

72 43.6 23.6 35.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#28

Bromochloromethane

Concen: 7.937 ug/l

RT: 7.67 min Scan# 946

Delta R.T. 0.16 min

Lab File: VW013997.D

Acq: 13 Nov 2019 11:04

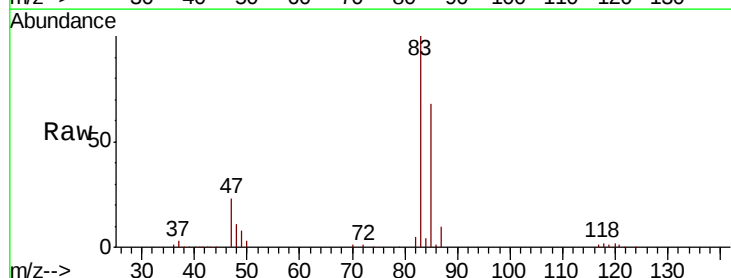
Tgt Ion: 49 Resp: 10822

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.6

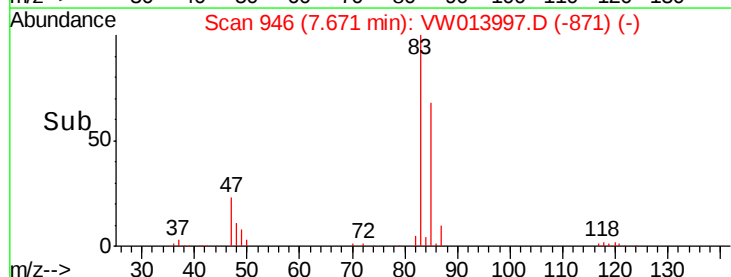
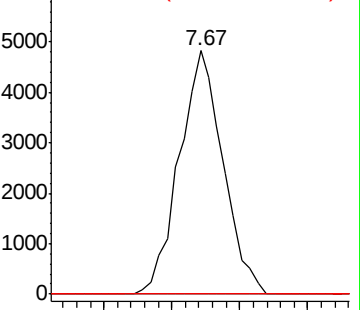
130 0.0 67.5 101.3#

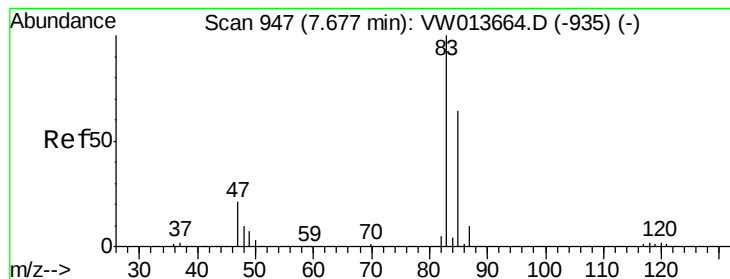


Abundance Ion 48.90 (48.60 to 49.60): VW

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#30

Chloroform

Concen: 34.238 ug/l

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW013997.D

Acq: 13 Nov 2019 11:04

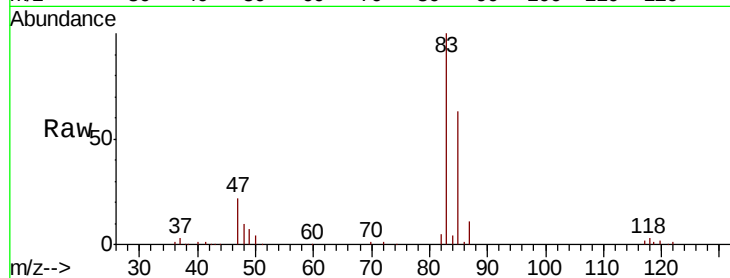
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 83 Resp: 151669

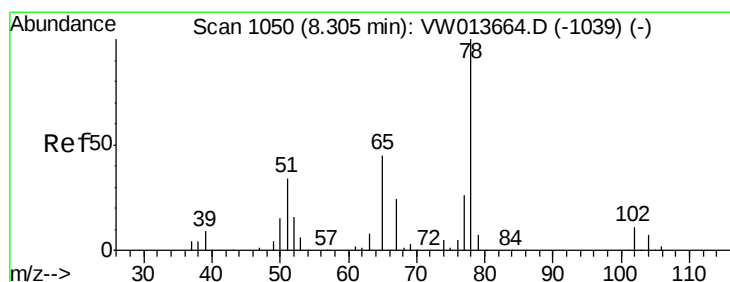
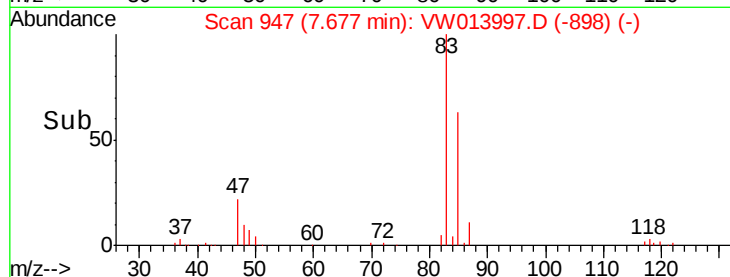
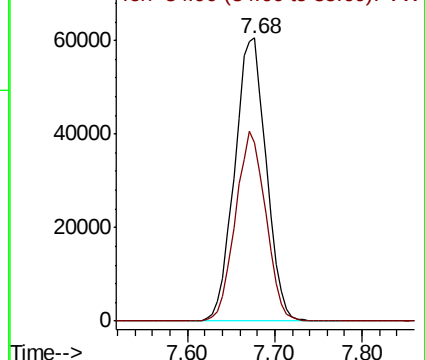
Ion Ratio Lower Upper

83 100

85 63.2 51.4 77.2



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW



#33

1,2-Dichloroethane-d4

Concen: 57.827 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013997.D

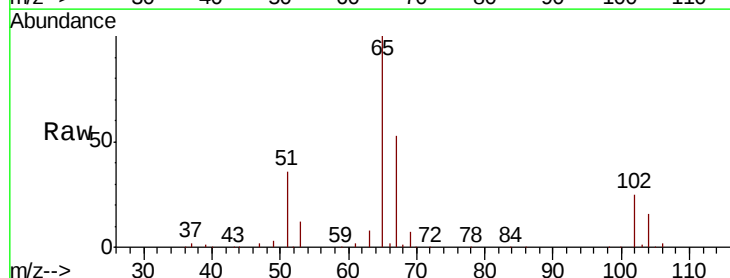
Acq: 13 Nov 2019 11:04

Tgt Ion: 65 Resp: 122018

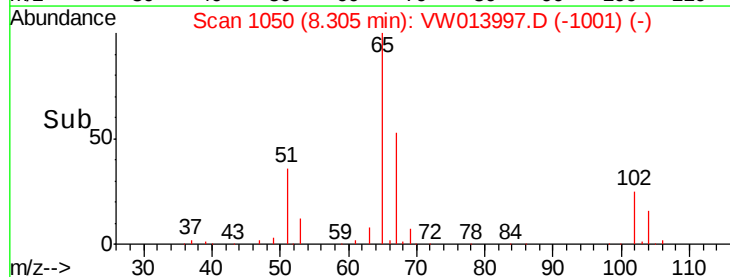
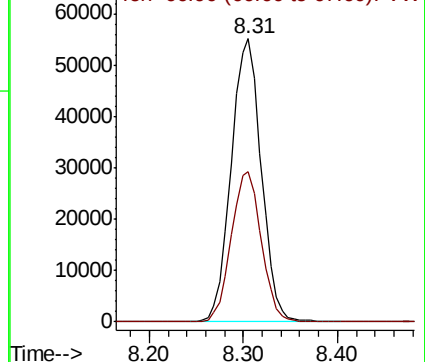
Ion Ratio Lower Upper

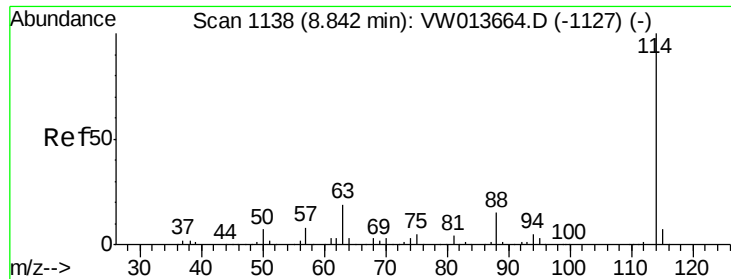
65 100

67 53.1 0.0 109.4



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

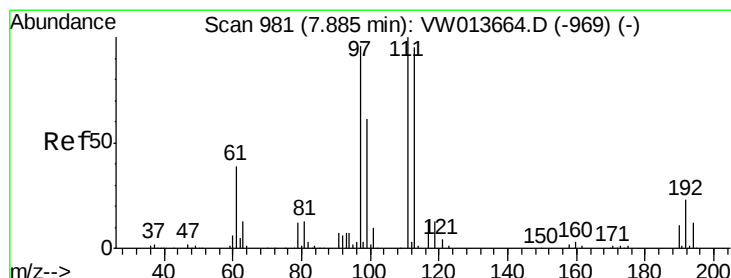
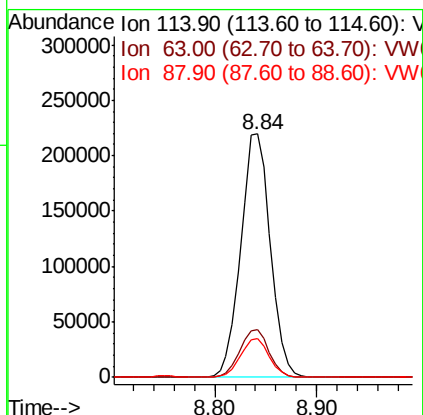
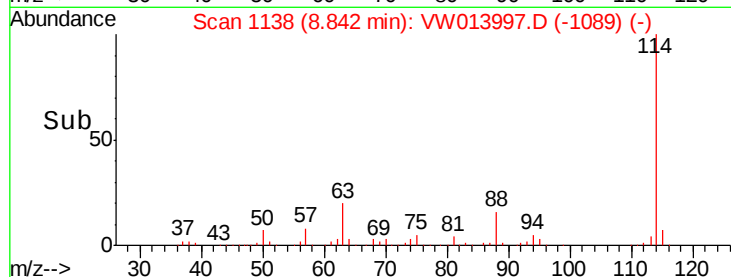
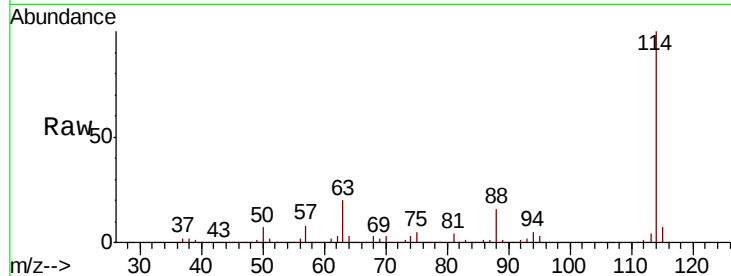




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013997.D
 Acq: 13 Nov 2019 11:04

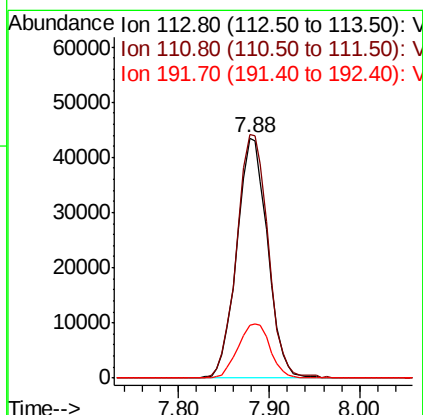
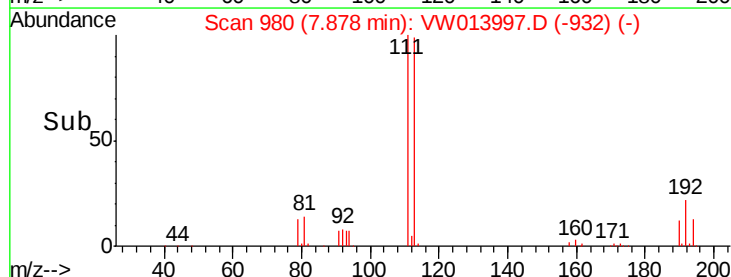
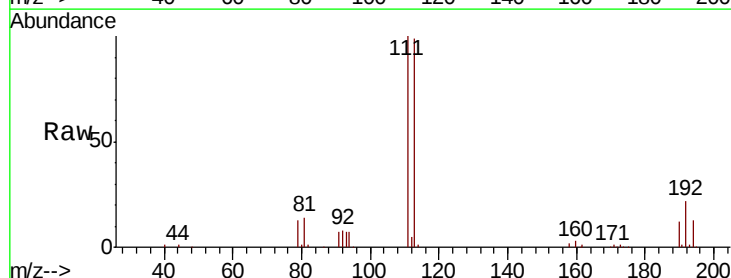
Instrument :
 MSVOA_W
 ClientSampled :

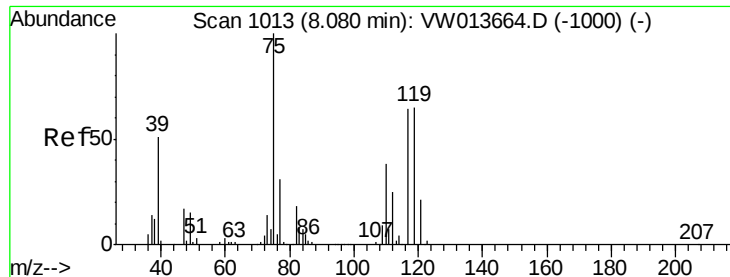
Tot Ion:114 Resp: 442391
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 37.6
 88 16.0 0.0 30.2



#35
 Dibromofluoromethane
 Concen: 41.604 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW013997.D
 Acq: 13 Nov 2019 11:04

Tgt Ion:113 Resp: 102270
 Ion Ratio Lower Upper
 113 100
 111 103.7 83.0 124.6
 192 23.7 19.4 29.2

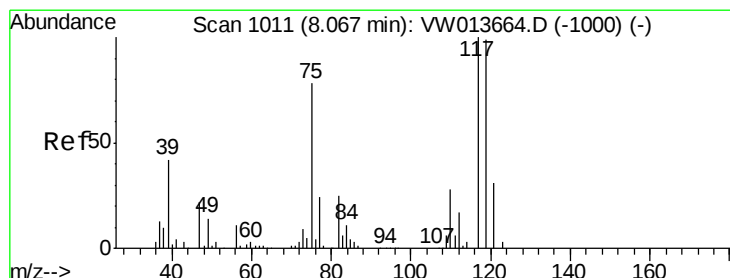
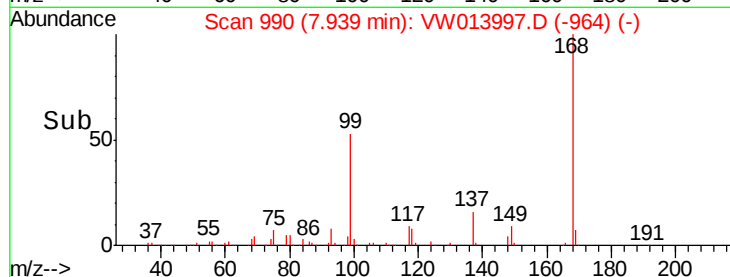
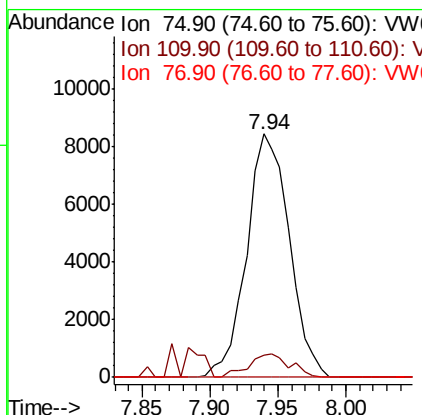
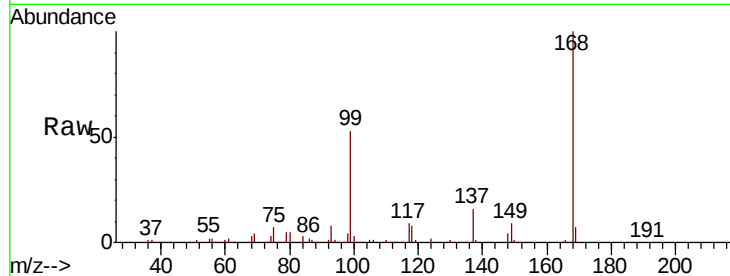




#36
 1,1-Dichloropropene
 Concen: 4.498 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013997.D
 Acq: 13 Nov 2019 11:04

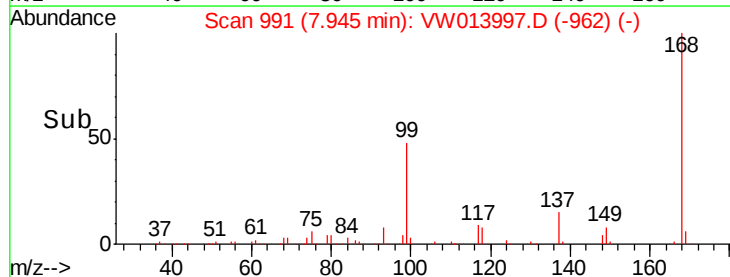
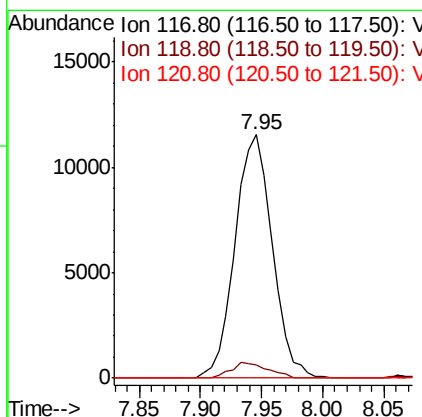
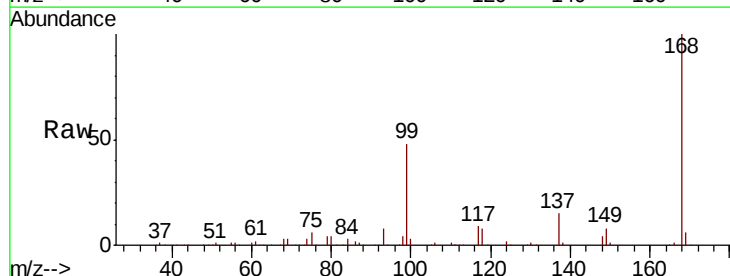
Instrument :
 MSVOA_W
 ClientSampleId :

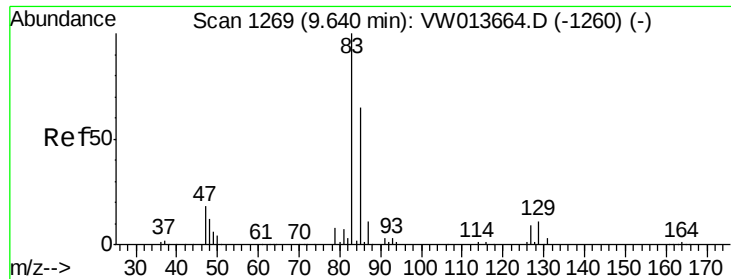
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.7	56.1#
77	0.0	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.585 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW013997.D
 Acq: 13 Nov 2019 11:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	79.0	118.4#
121	0.0	24.5	36.7#





#47

Bromodichloromethane

Concen: 2.637 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW013997.D

Acq: 13 Nov 2019 11:04

Instrument :

MSVOA_W

ClientSampleId :

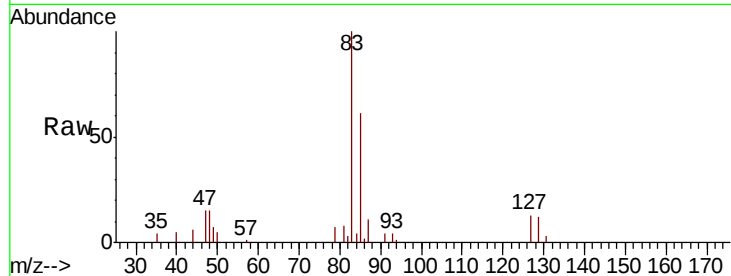
Tot Ion: 83 Resp: 9223

Ion Ratio Lower Upper

83 100

85 60.7 51.8 77.6

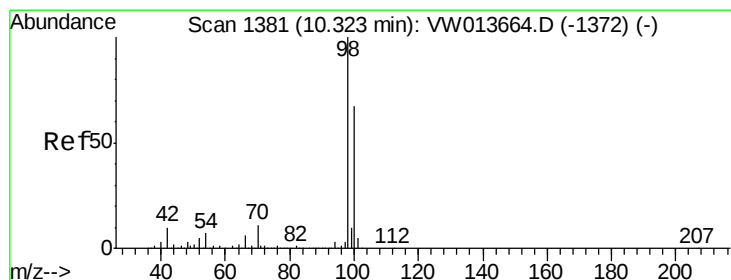
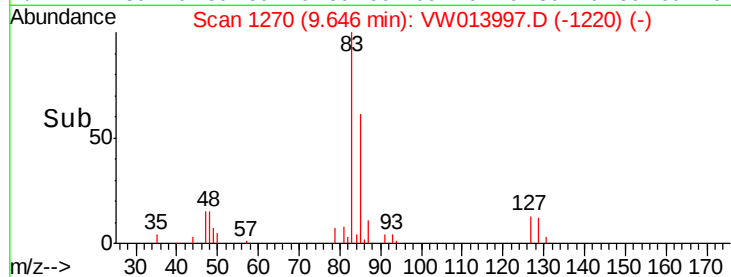
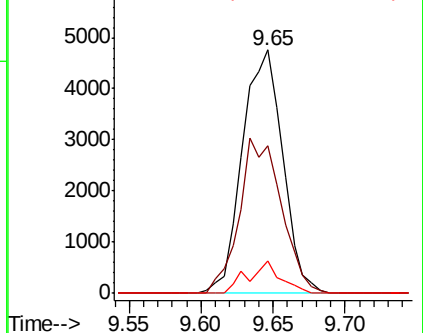
127 13.1 7.3 10.9#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V



#50

Toluene-d8

Concen: 50.950 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013997.D

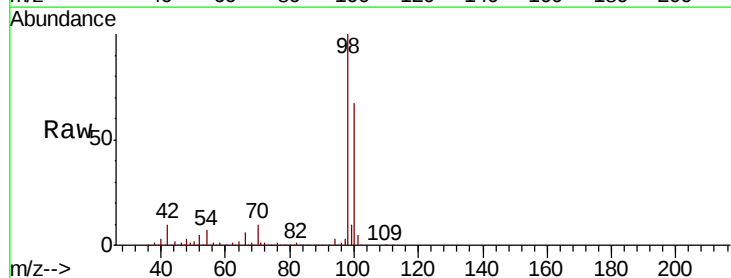
Acq: 13 Nov 2019 11:04

Tgt Ion: 98 Resp: 510341

Ion Ratio Lower Upper

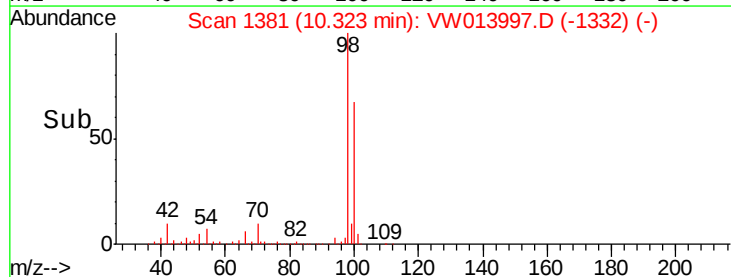
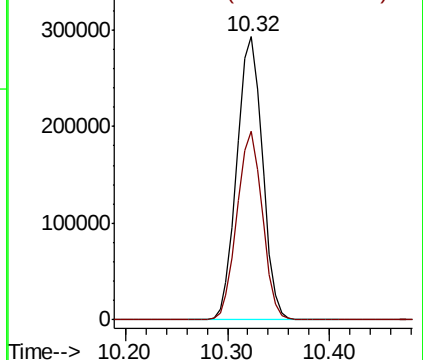
98 100

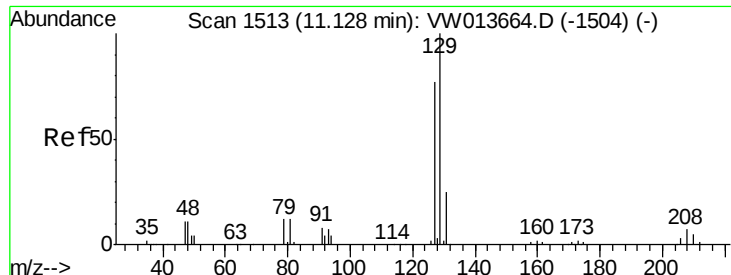
100 65.7 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): V

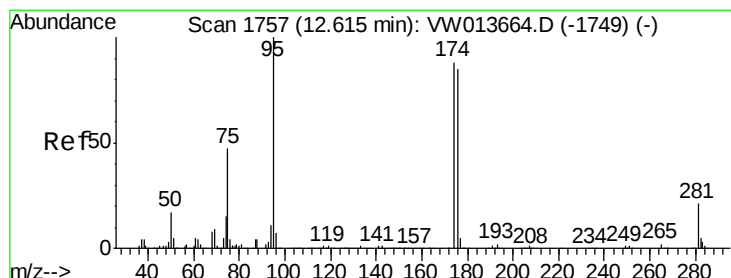
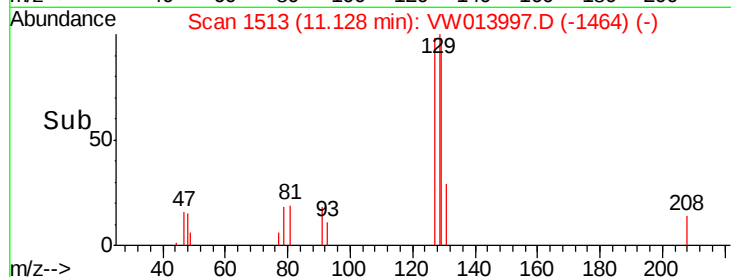
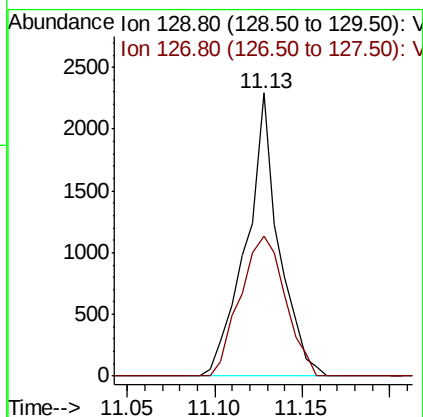
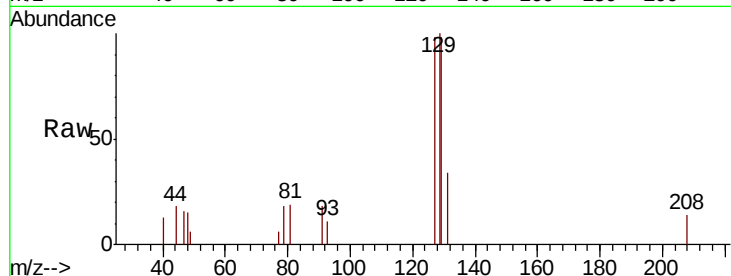




#60
Dibromochloromethane
Concen: 1.241 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013997.D
Acq: 13 Nov 2019 11:04

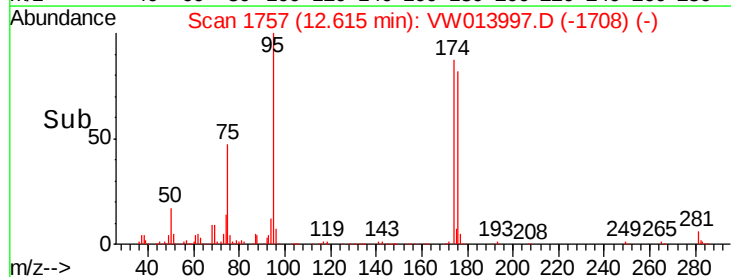
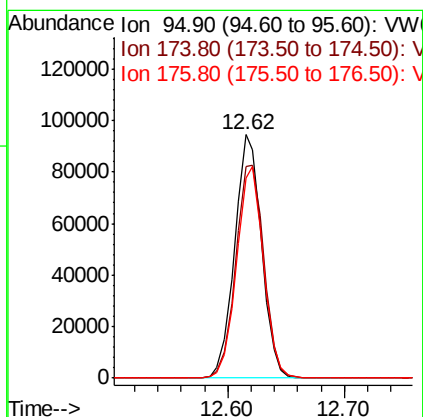
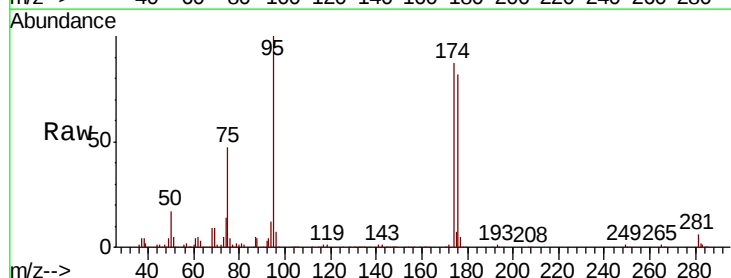
Instrument :
MSVOA_W
ClientSampleId :

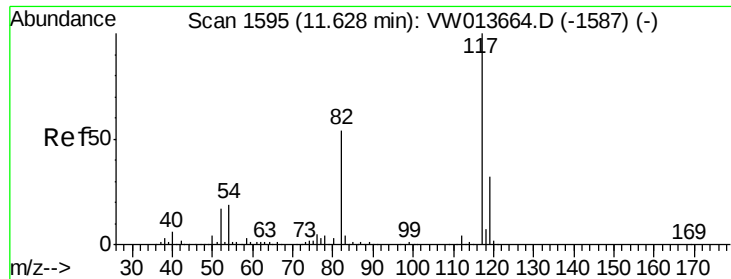
Tot Ion:129 Resp: 2968
Ion Ratio Lower Upper
129 100
127 68.6 38.9 116.7



#62
4-Bromofluorobenzene
Concen: 44.740 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013997.D
Acq: 13 Nov 2019 11:04

Tgt Ion: 95 Resp: 151741
Ion Ratio Lower Upper
95 100
174 91.7 0.0 183.6
176 86.9 0.0 178.0

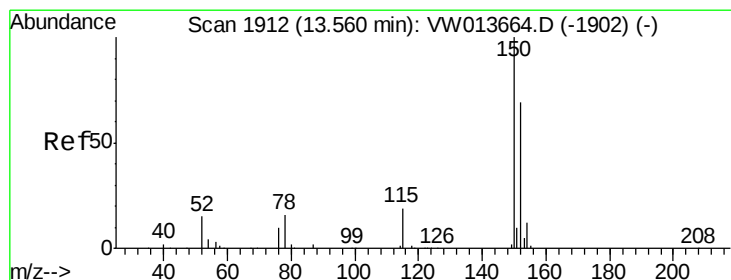
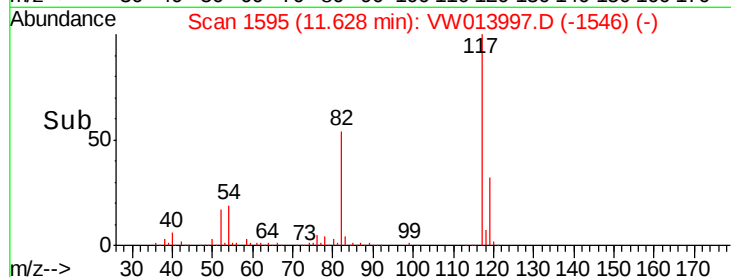
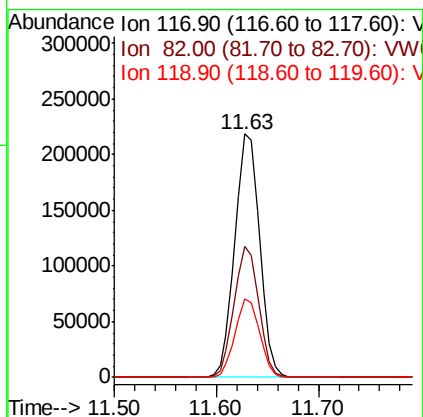
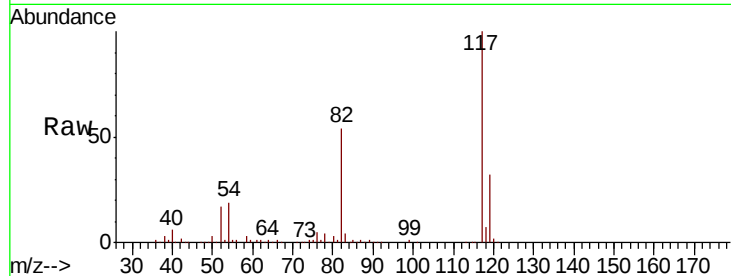




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013997.D
Acq: 13 Nov 2019 11:04

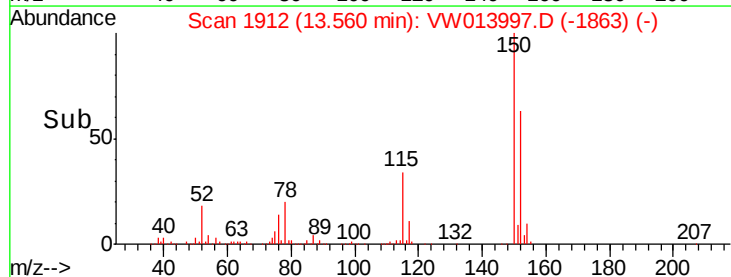
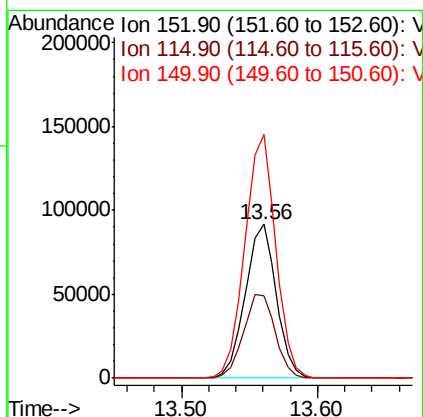
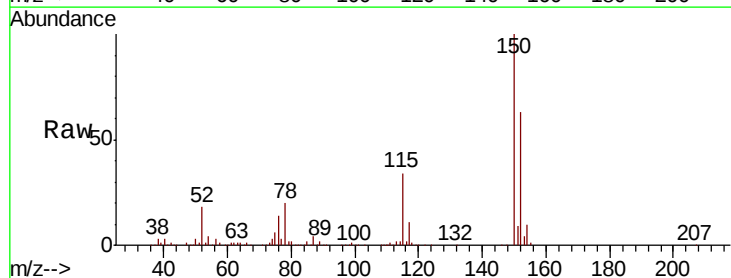
Instrument :
MSVOA_W
ClientSampleId :

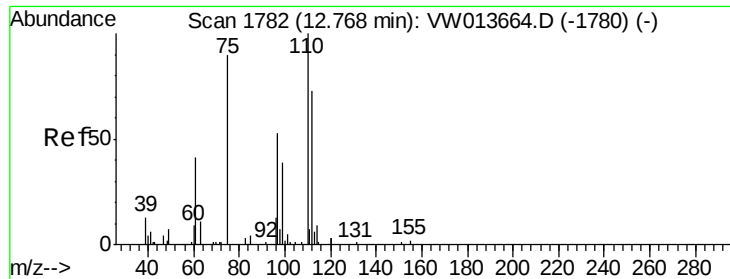
Tot Ion:117 Resp: 368104
Ion Ratio Lower Upper
117 100
82 53.8 43.6 65.4
119 32.0 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW013997.D
Acq: 13 Nov 2019 11:04

Tgt Ion:152 Resp: 146345
Ion Ratio Lower Upper
152 100
115 55.6 27.4 82.2
150 157.2 0.0 345.4

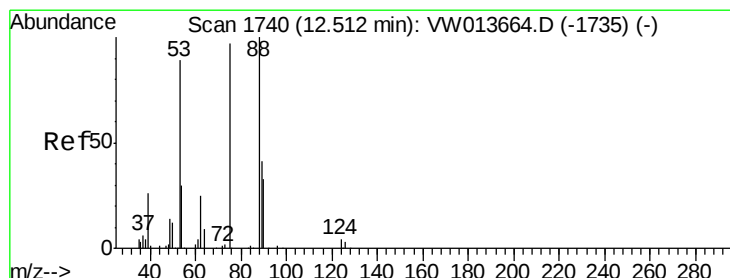
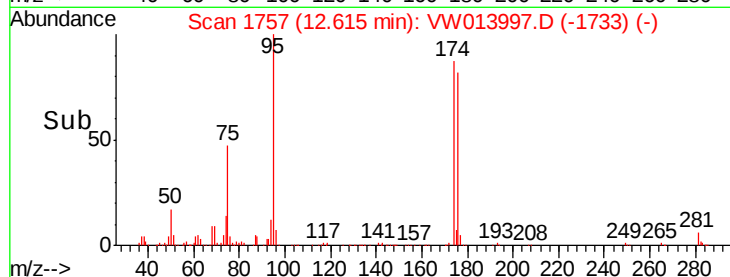
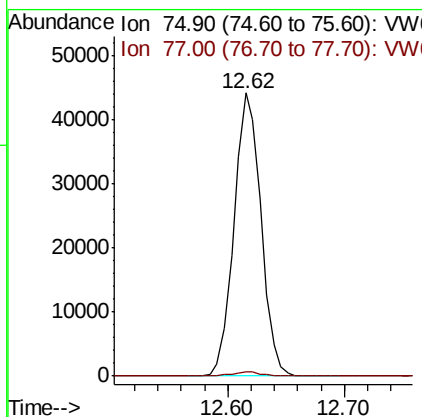
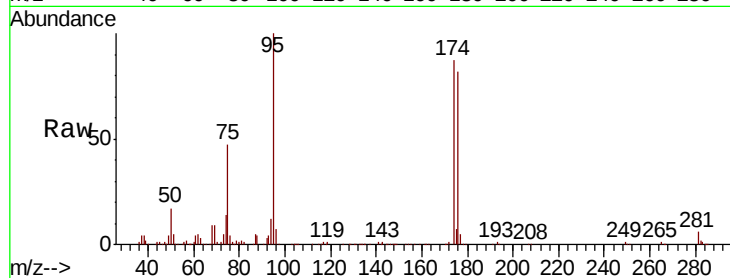




#76
 1,2,3-Trichloropropane
 Concen: 67.751 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW013997.D
 Acq: 13 Nov 2019 11:04

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion: 75 Resp: 71204
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 128.041 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW013997.D
 Acq: 13 Nov 2019 11:04

Tgt Ion: 75 Resp: 71204
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.7 107.5#
 89 0.0 35.8 53.8#

