

Data File : VW010647.D
Acq On : 31 May 2019 20:04
Operator : SY/VA
Sample : K3124-08RE
Misc : 5.23G/5ML/MSVOA_W/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-25-D2RE

Quant Time: Jun 01 04:54:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 06:38:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	300763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	501713	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	436875	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	204847	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	109968	35.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.84%	
35) Dibromofluoromethane	7.88	113	127945	42.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.06%	
50) Toluene-d8	10.32	98	518412	44.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.16%	
62) 4-Bromofluorobenzene	12.62	95	202306	43.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.34%	

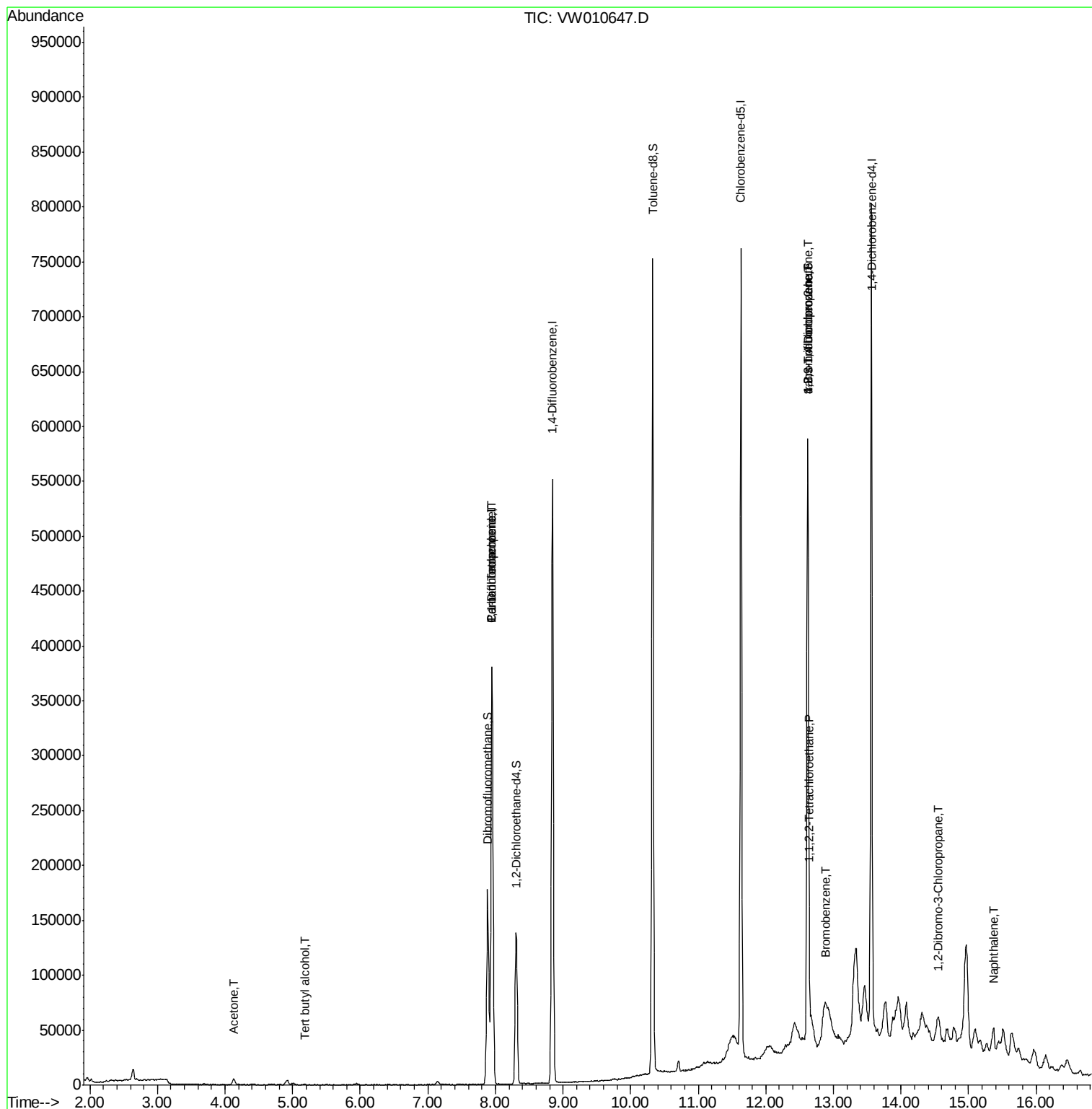
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	2.01	85	27	Below Cal	#	42
11) Tert butyl alcohol	5.17	59	347	1.243	ug/l #	71
16) Acetone	4.13	43	9711	15.325	ug/l	98
20) Methylene Chloride	4.92	84	3344	Below Cal	#	87
36) 1,1-Dichloropropene	7.95	75	20429	4.371	ug/l #	48
38) Carbon Tetrachloride	7.95	117	29636	5.878	ug/l #	15
75) 1,1,2,2-Tetrachloroethane	12.65	83	7910	2.675	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	87924	42.285	ug/l #	1
77) Bromobenzene	12.87	156	66990	18.416	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	87924	88.250	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	14.55	75	638	1.160	ug/l #	1
95) Naphthalene	15.37	128	10639	1.146	ug/l	96

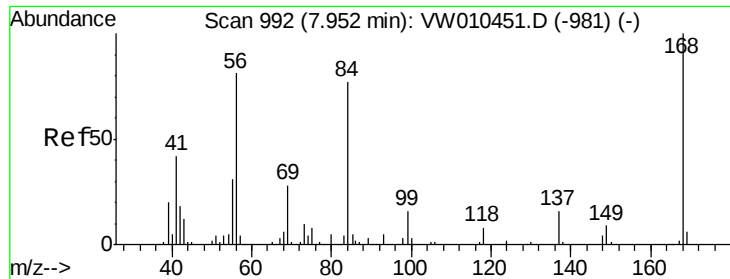
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

Instrument :

MSVOA_W

ClientSampled :

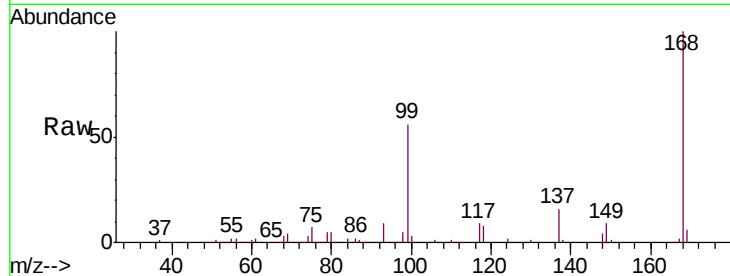
TP-25-D2RE

Tgt Ion:168 Resp: 300763

Ion Ratio Lower Upper

168 100

99 55.8 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

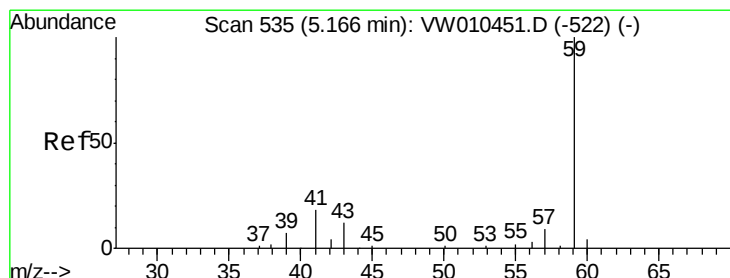
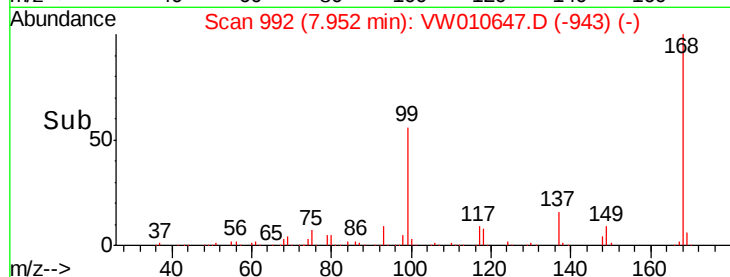
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 1.243 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW010647.D

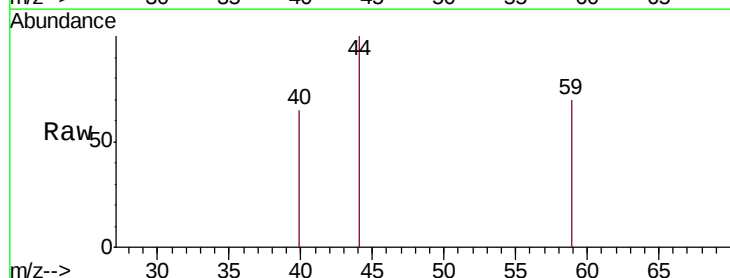
Acq: 31 May 2019 20:04

Tgt Ion: 59 Resp: 347

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

5.17

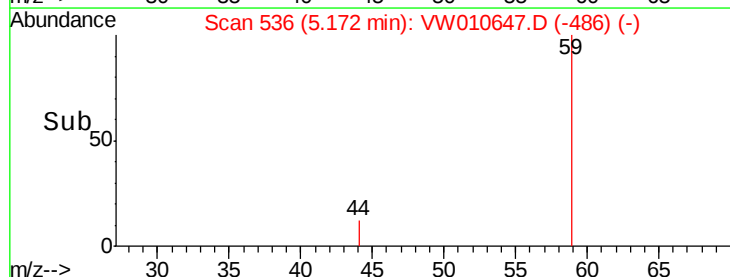
150

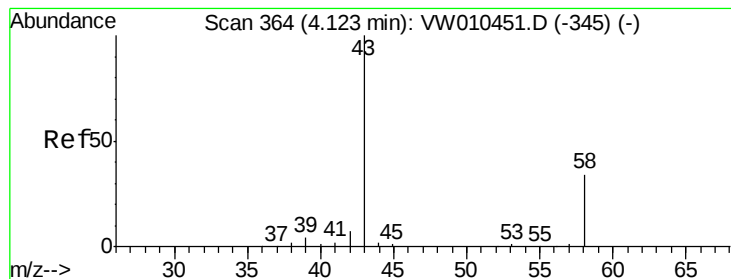
100

50

0

Time--> 5.10 5.15 5.20





#16

Acetone

Concen: 15.325 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

Instrument :

MSVOA_W

ClientSampleId :

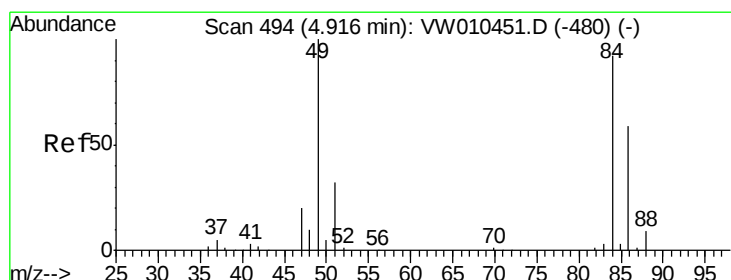
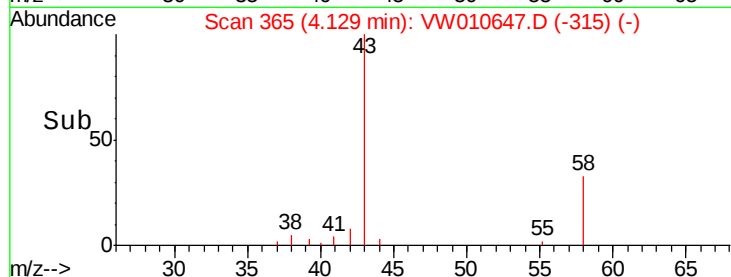
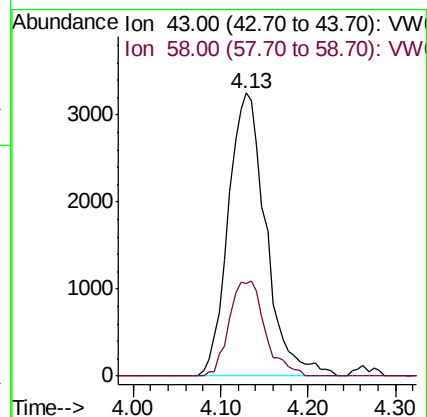
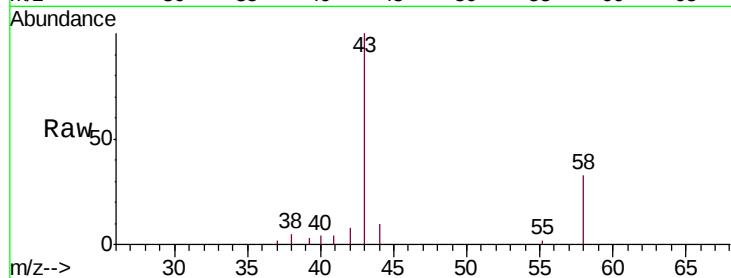
TP-25-D2RE

Tgt Ion: 43 Resp: 9711

Ion Ratio Lower Upper

43 100

58 32.7 27.0 40.4



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

Tgt Ion: 84 Resp: 3344

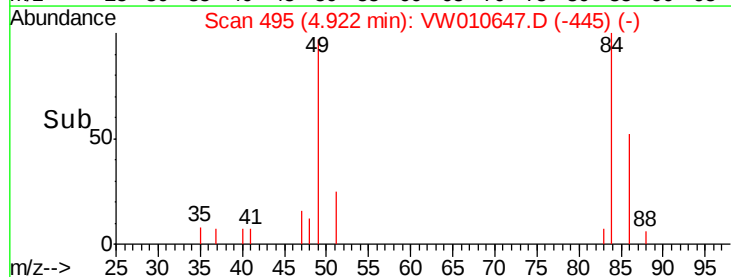
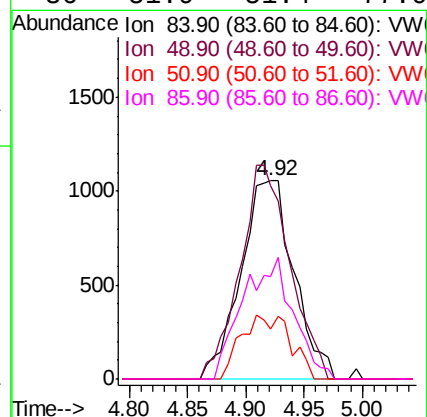
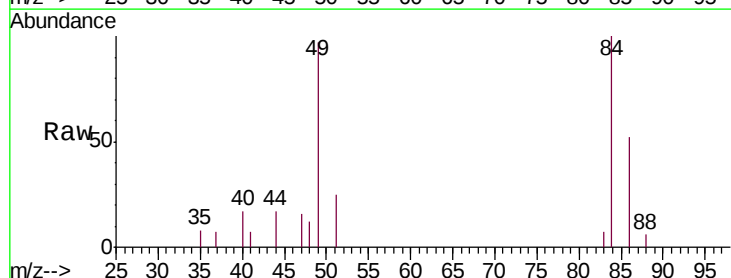
Ion Ratio Lower Upper

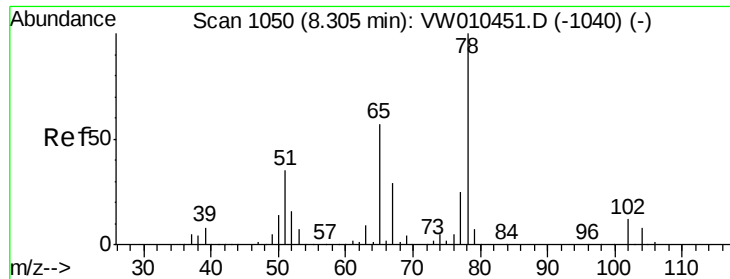
84 100

49 97.3 87.2 130.8

51 24.9 27.7 41.5#

86 51.9 51.4 77.0

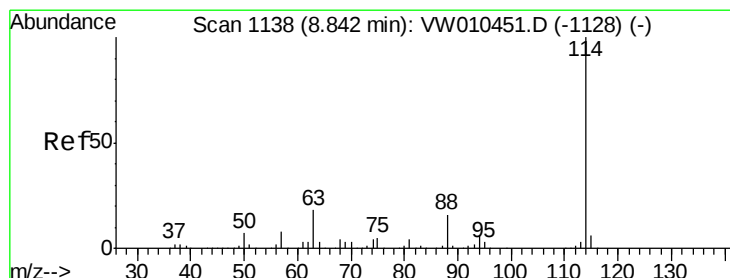
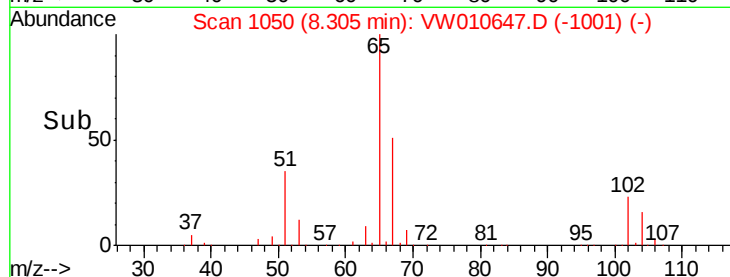
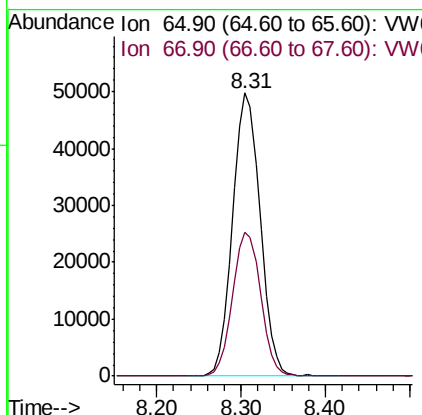
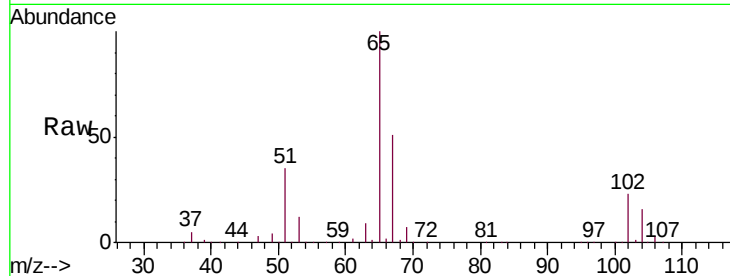




#33
 1,2-Dichloroethane-d4
 Concen: 35.423 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010647.D
 Acq: 31 May 2019 20:04

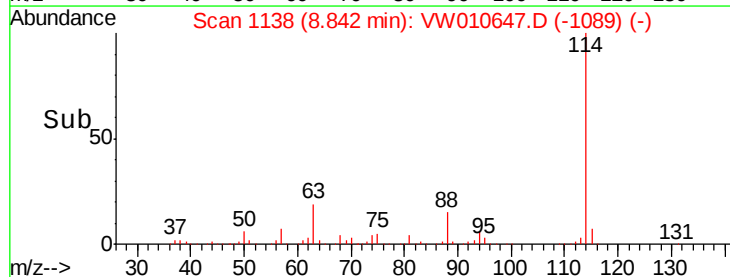
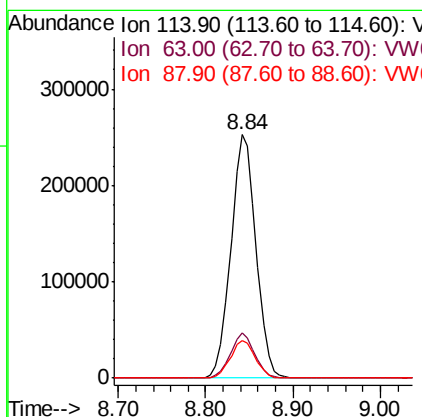
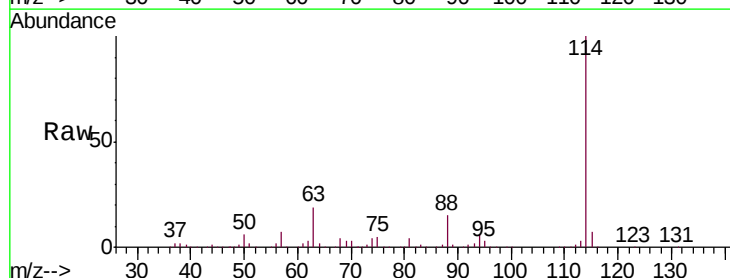
Instrument :
 MSVOA_W
 ClientSampled :
 TP-25-D2RE

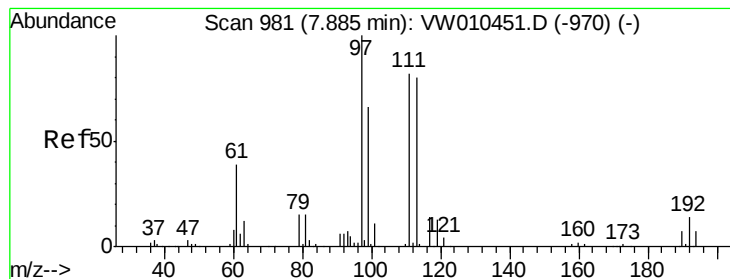
Tgt Ion: 65 Resp: 109968
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010647.D
 Acq: 31 May 2019 20:04

Tgt Ion: 114 Resp: 501713
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 36.0
 88 15.3 0.0 32.0





#35

Dibromofluoromethane

Concen: 42.028 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

Instrument :

MSVOA_W

ClientSampleId :

TP-25-D2RE

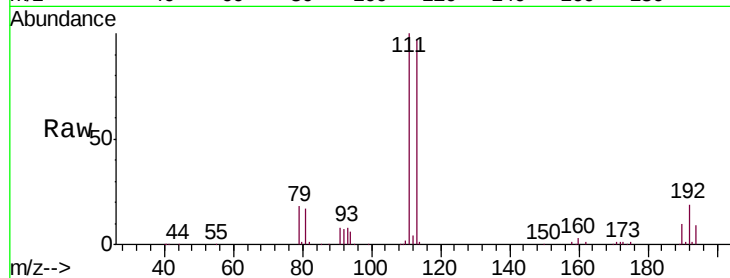
Tgt Ion:113 Resp: 127945

Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.4

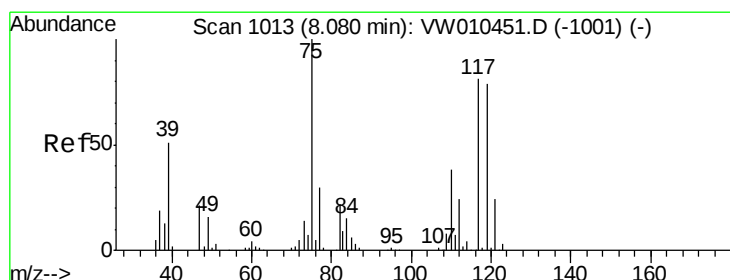
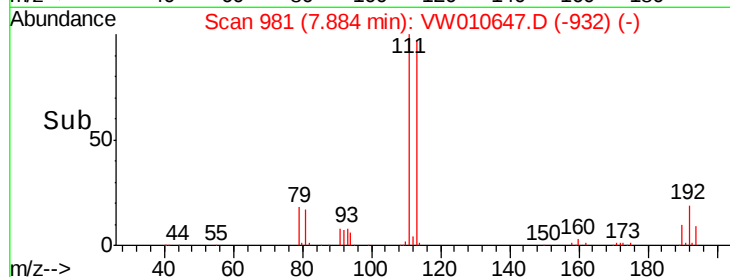
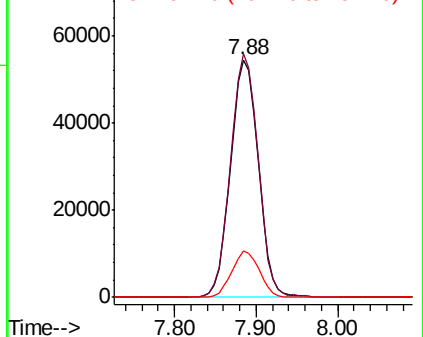
192 19.3 14.3 21.5



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.371 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

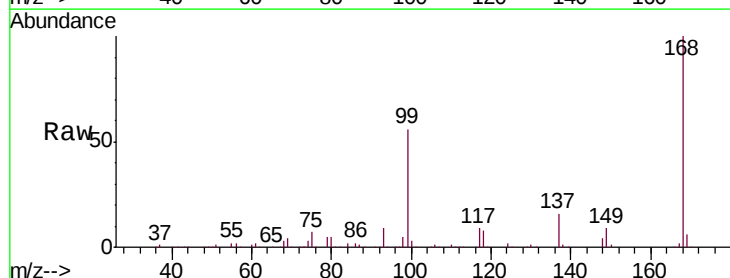
Tgt Ion: 75 Resp: 20429

Ion Ratio Lower Upper

75 100

110 9.2 19.2 57.6#

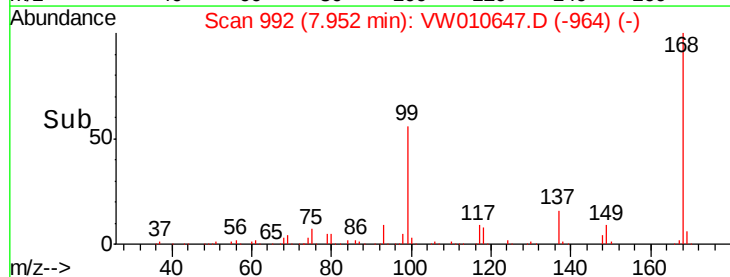
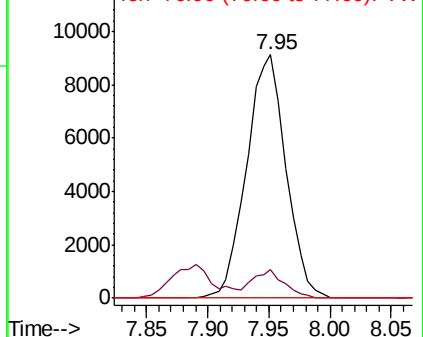
77 0.0 25.2 37.8#

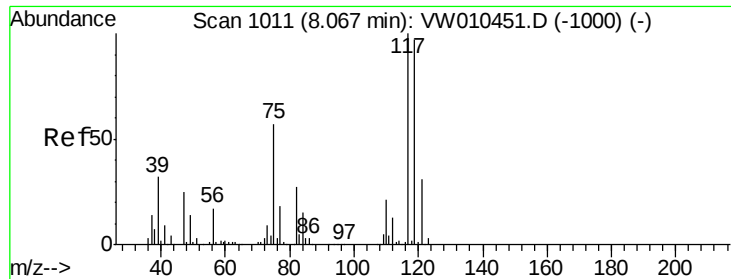


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

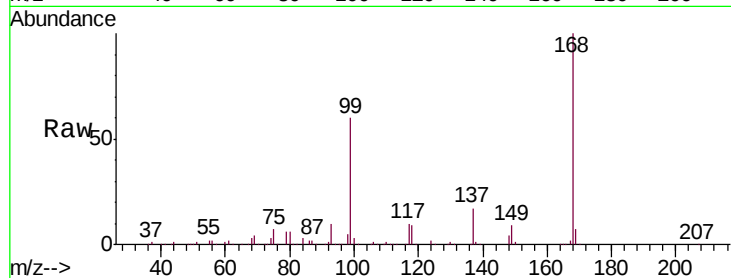




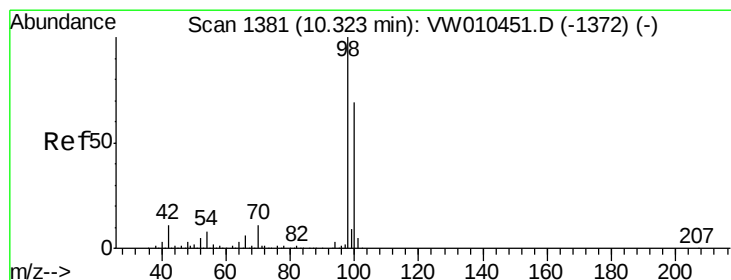
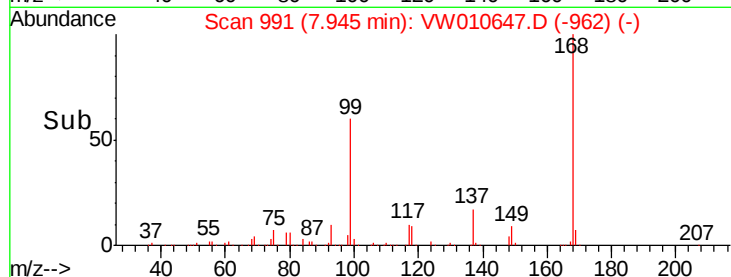
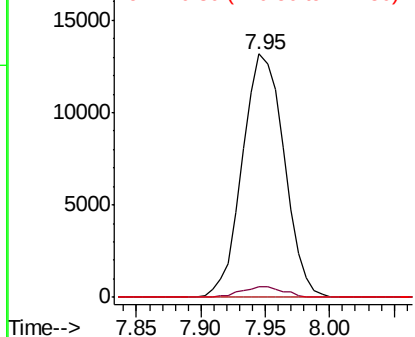
#38
Carbon Tetrachloride
Concen: 5.878 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW010647.D
Acq: 31 May 2019 20:04

Instrument :
MSVOA_W
ClientSampled :
TP-25-D2RE

Tgt Ion:117 Resp: 29636
Ion Ratio Lower Upper
117 100
119 4.5 77.4 116.0#
121 0.0 25.0 37.6#

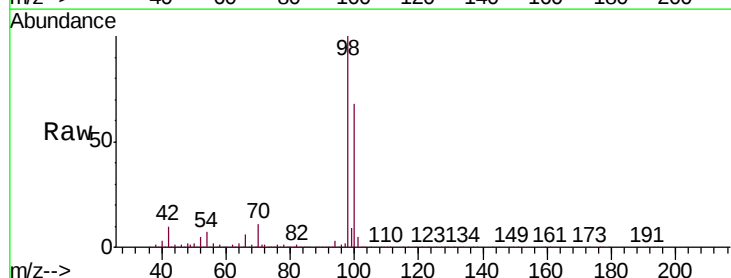


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

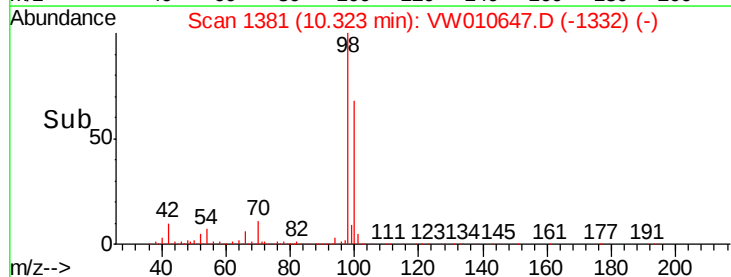
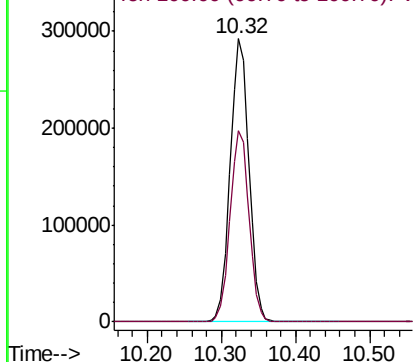


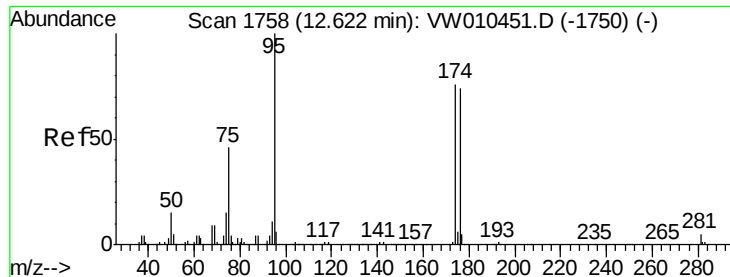
#50
Toluene-d8
Concen: 44.576 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010647.D
Acq: 31 May 2019 20:04

Tgt Ion: 98 Resp: 518412
Ion Ratio Lower Upper
98 100
100 67.9 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V

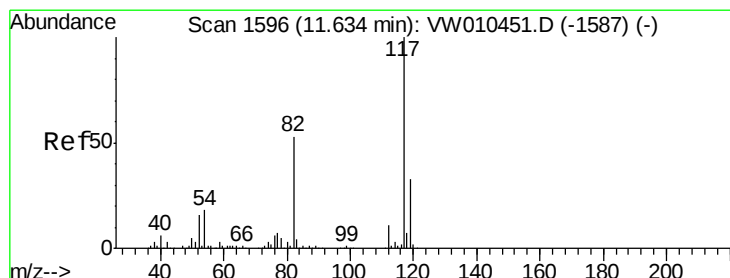
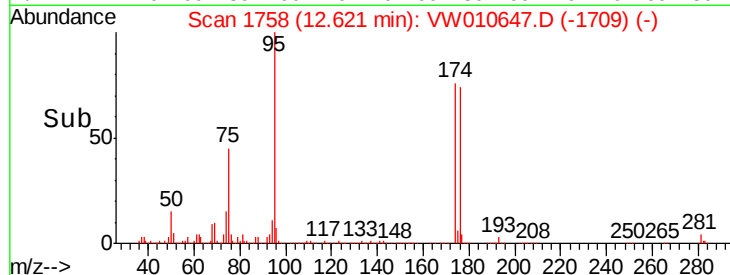
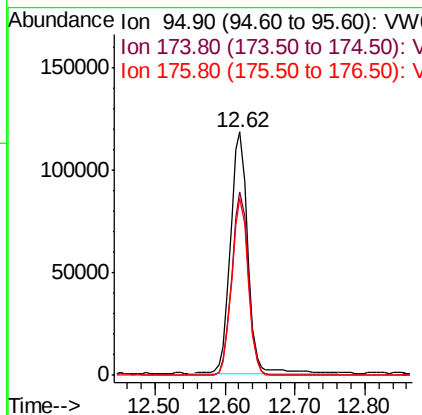
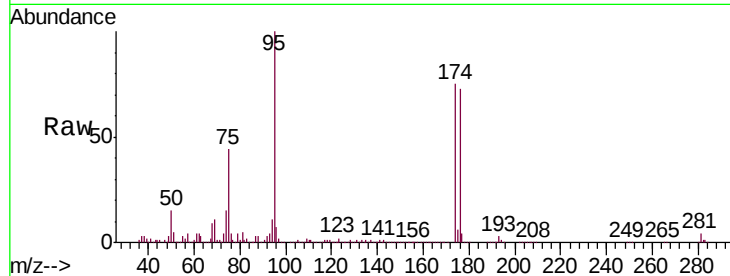




#62
4-Bromofluorobenzene
Concen: 43.672 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW010647.D
Acq: 31 May 2019 20:04

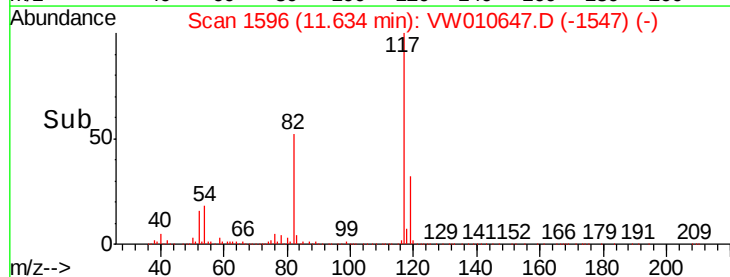
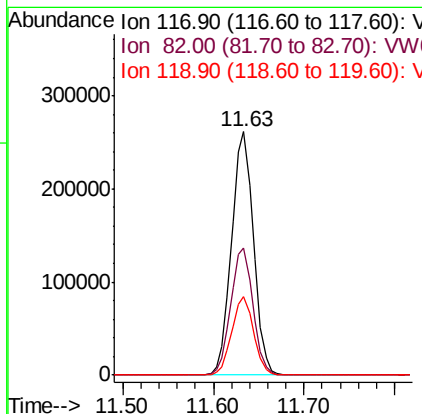
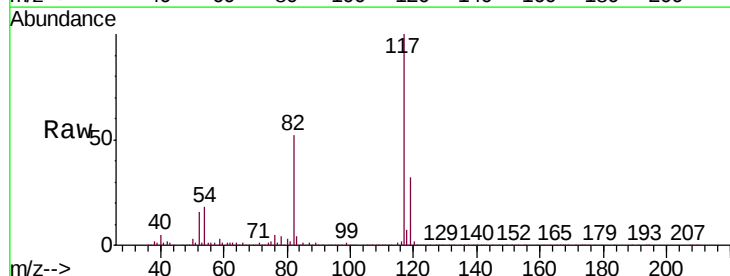
Instrument :
MSVOA_W
ClientSampleId :
TP-25-D2RE

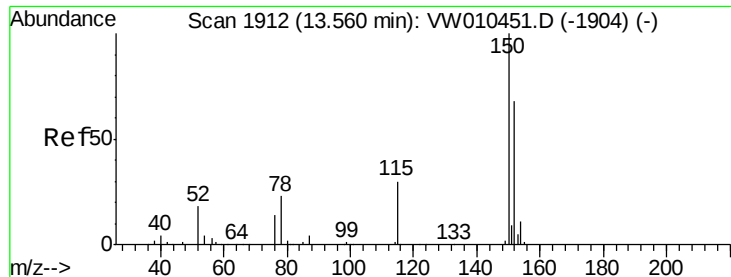
Tgt Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	148.6
176	69.3	0.0	144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010647.D
Acq: 31 May 2019 20:04

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.3	42.8	64.2
119	32.1	26.3	39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

Instrument :

MSVOA_W

ClientSampleId :

TP-25-D2RE

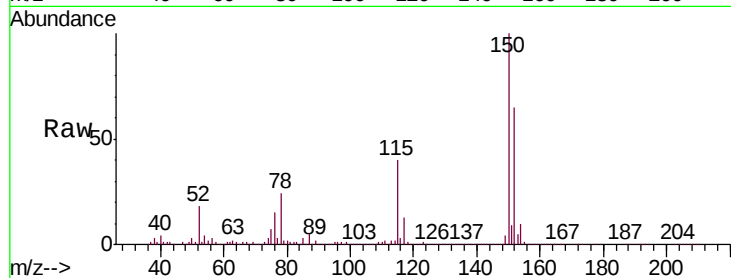
Tgt Ion:152 Resp: 204847

Ion Ratio Lower Upper

152 100

115 60.0 30.3 91.0

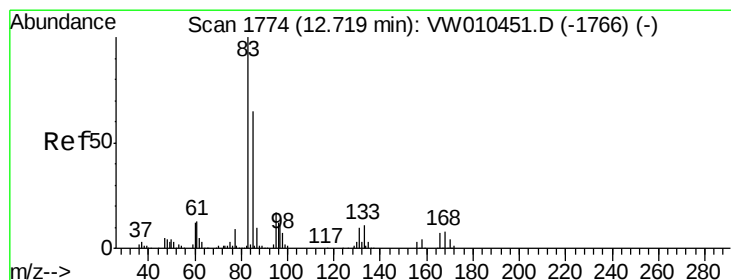
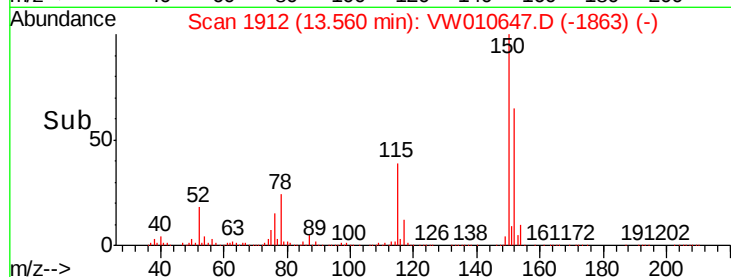
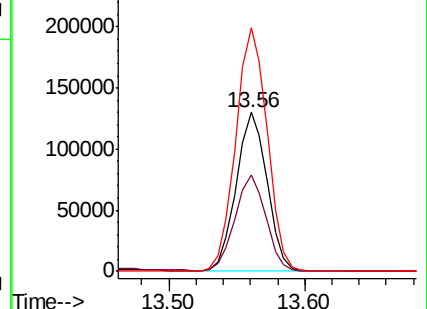
150 155.7 0.0 349.8



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.675 ug/l

RT: 12.65 min Scan# 1762

Delta R.T. -0.07 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

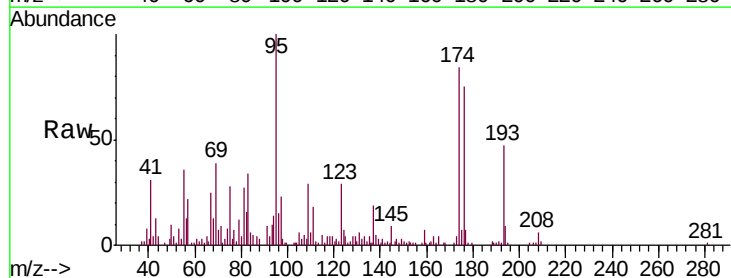
Tgt Ion: 83 Resp: 7910

Ion Ratio Lower Upper

83 100

131 0.0 5.6 16.8#

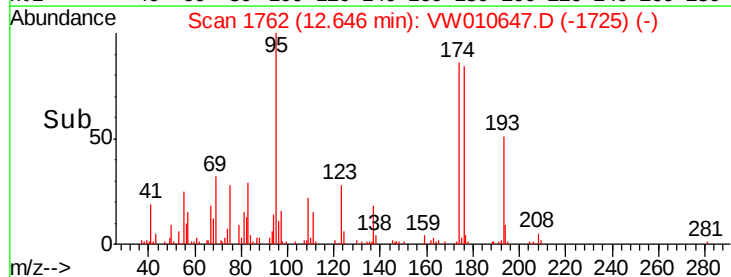
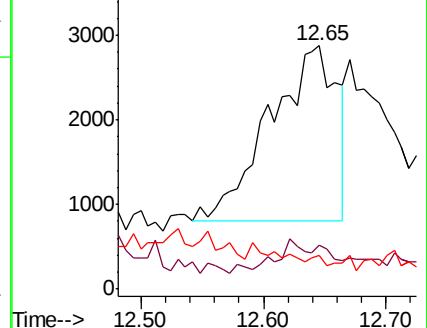
85 0.0 32.4 97.0#

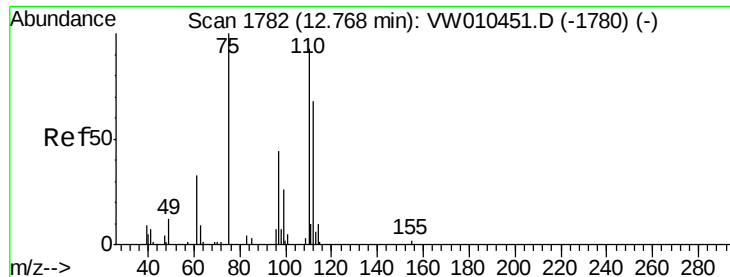


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 42.285 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

Instrument :

MSVOA_W

ClientSampleId :

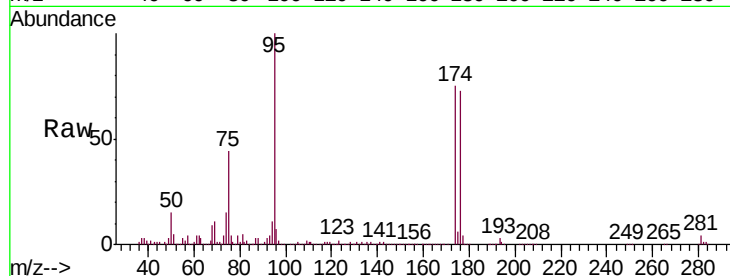
TP-25-D2RE

Tgt Ion: 75 Resp: 87924

Ion Ratio Lower Upper

75 100

77 1.6 170.0 510.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

60000

50000

40000

30000

20000

10000

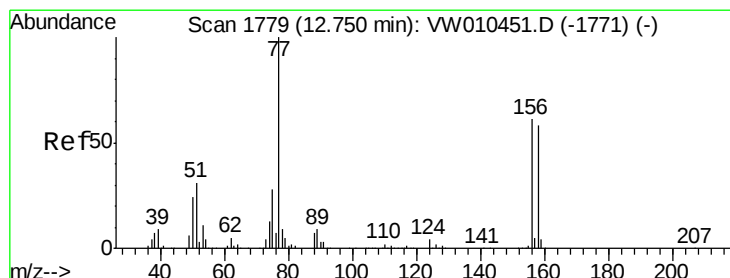
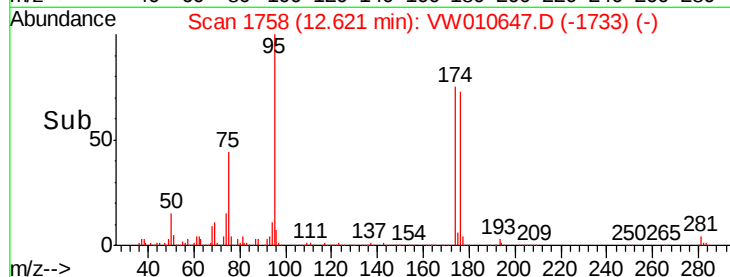
0

12.62

12.60

12.70

Time-->



#77

Bromobenzene

Concen: 18.416 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. 0.12 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

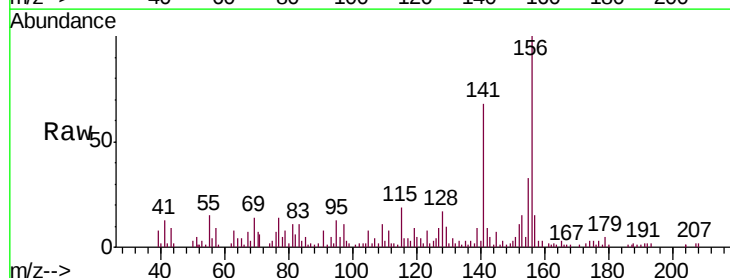
Tgt Ion: 156 Resp: 66990

Ion Ratio Lower Upper

156 100

77 5.7 92.4 277.2#

158 0.2 48.3 144.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V

12000

10000

8000

6000

4000

2000

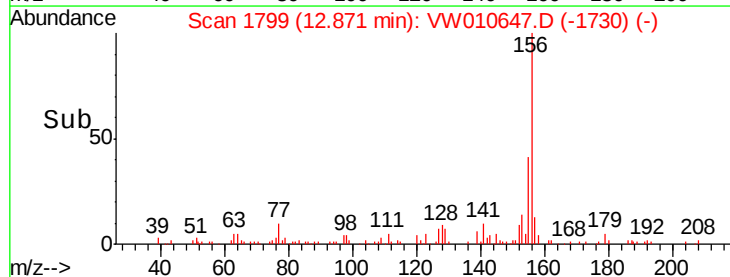
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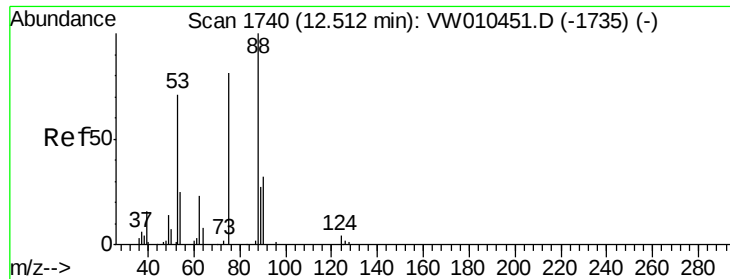
12.87

12.80

13.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 88.250 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

Instrument :

MSVOA_W

ClientSampleId :

TP-25-D2RE

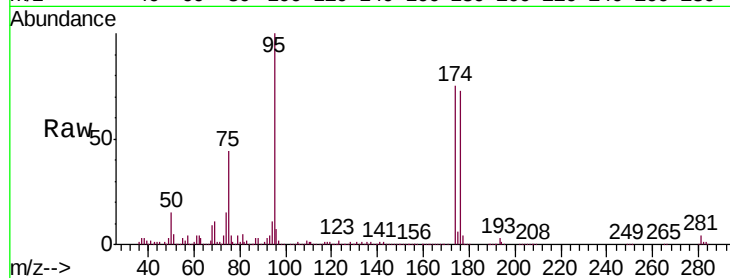
Tgt Ion: 75 Resp: 87924

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.8#

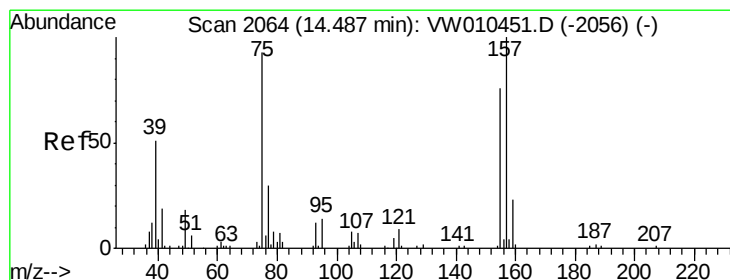
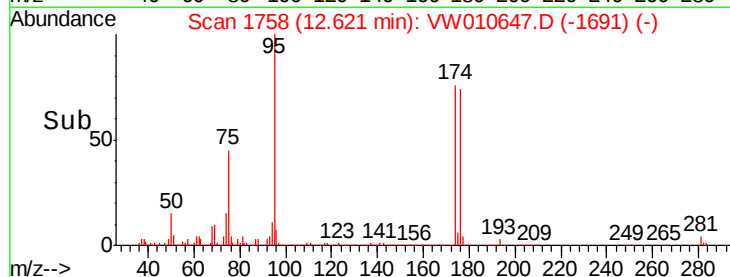
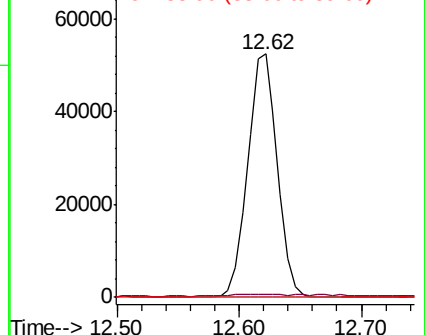
89 0.0 39.5 59.3#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.160 ug/l

RT: 14.55 min Scan# 2075

Delta R.T. 0.07 min

Lab File: VW010647.D

Acq: 31 May 2019 20:04

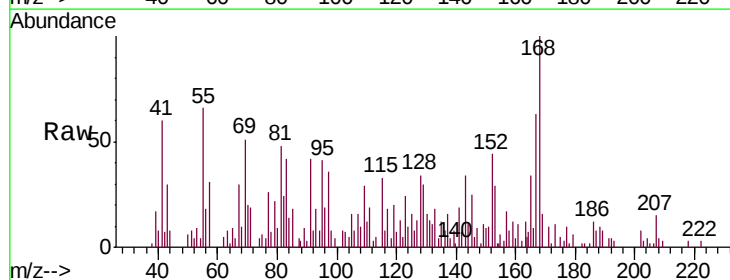
Tgt Ion: 75 Resp: 638

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

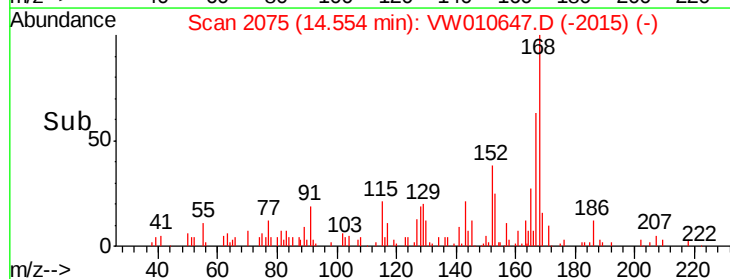
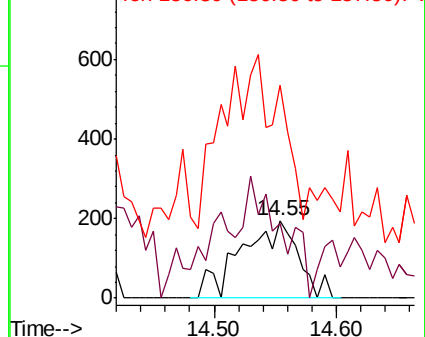
157 0.0 55.7 167.1#

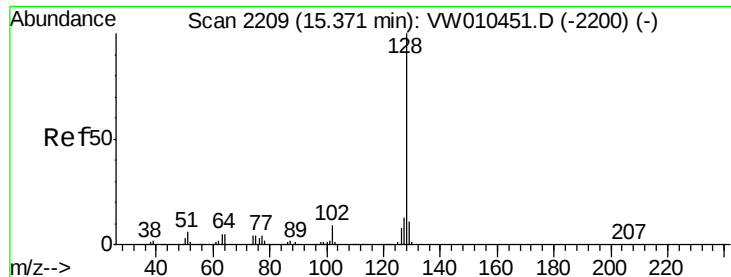


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 1.146 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010647.D
Acq: 31 May 2019 20:04

Instrument :
MSVOA_W
ClientSampleId :
TP-25-D2RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.6	15.8
129	13.2	8.9	13.3

