

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052819\
 Data File : VW010575.D
 Acq On : 28 May 2019 18:51
 Operator : SY/VA
 Sample : K3065-11
 Misc : 5.05G/5ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-12-1.0-1.5

Quant Time: May 29 07:03:33 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	117604	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	205718	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	185660	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	85889	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	62876	51.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.60%	
35) Dibromofluoromethane	7.88	113	62992	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	
50) Toluene-d8	10.32	98	252997	53.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.10%	
62) 4-Bromofluorobenzene	12.62	95	96664	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	

Target Compounds

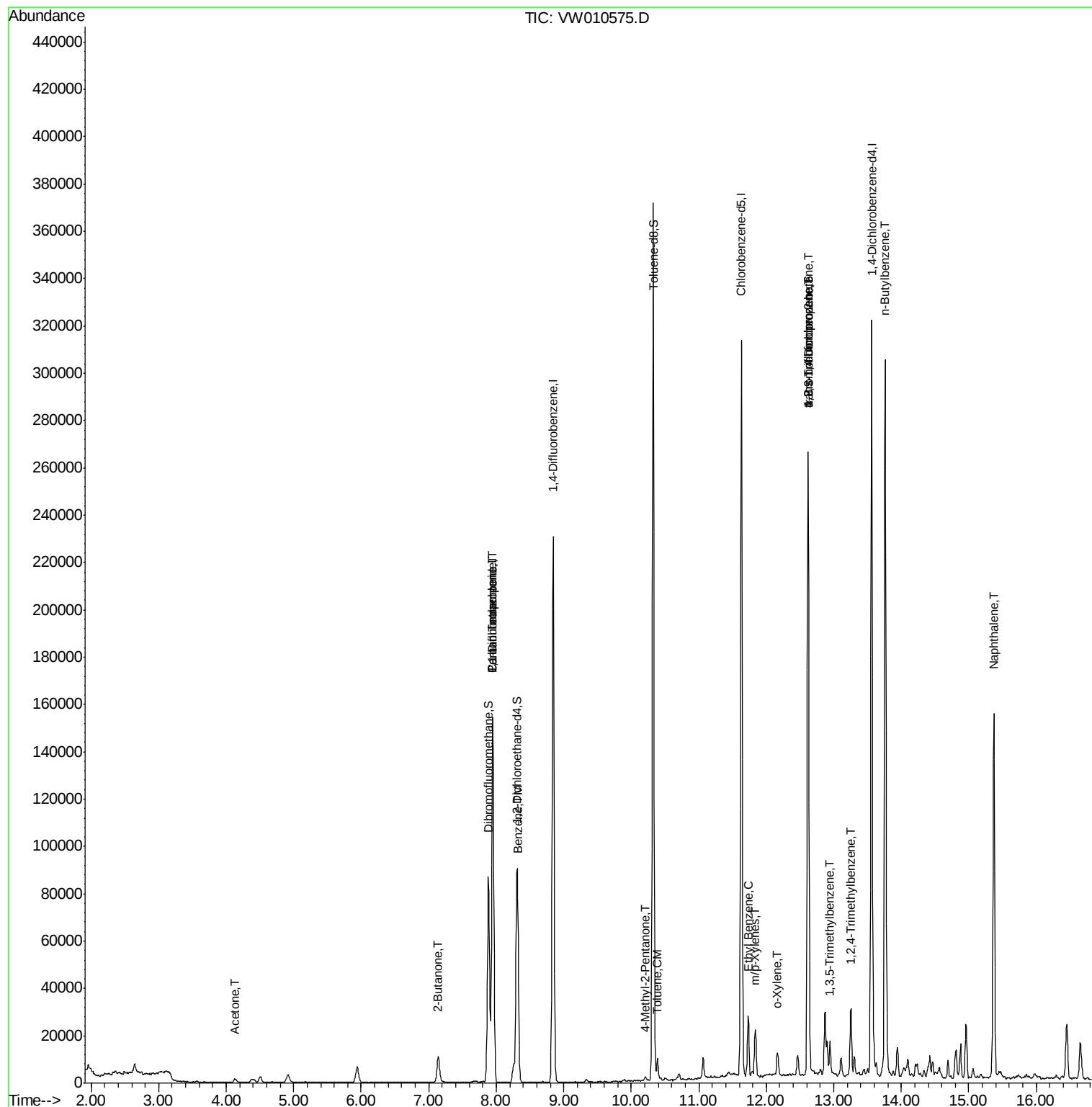
						Qvalue
2) Dichlorodifluoromethane	2.00	85	63	Below Cal	#	42
16) Acetone	4.13	43	2822	11.389	ug/l	99
20) Methylene Chloride	4.92	84	2721	Below Cal	#	79
25) 2-Butanone	7.13	43	522	1.472	ug/l #	45
36) 1,1-Dichloropropene	7.95	75	8707	4.543	ug/l #	47
38) Carbon Tetrachloride	7.95	117	11992	5.801	ug/l #	15
40) Benzene	8.32	78	22628	4.248	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	1099	1.332	ug/l	98
52) Toluene	10.39	92	3722	1.041	ug/l	90
67) Ethyl Benzene	11.73	91	18486	2.646	ug/l	97
68) m/p-Xylenes	11.84	106	6552	2.391	ug/l	94
69) o-Xylene	12.16	106	2803	1.080	ug/l	87
76) 1,2,3-Trichloropropane	12.62	75	44636	51.198	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	6654	1.153	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	44636	106.852	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.26	105	16608	2.889	ug/l	96
89) n-Butylbenzene	13.76	91	25769	4.242	ug/l #	42
95) Naphthalene	15.37	128	136473	35.046	ug/l	100

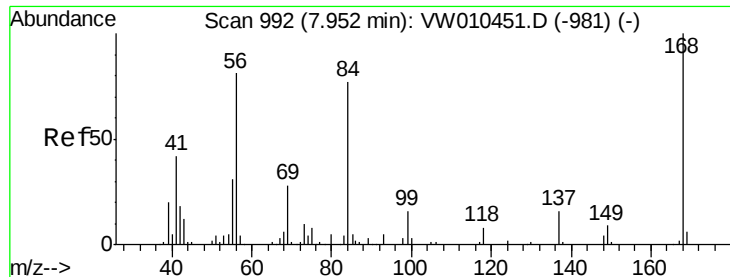
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW010575.D

Acq: 28 May 2019 18:51

Instrument :

MSVOA_W

ClientSampleId :

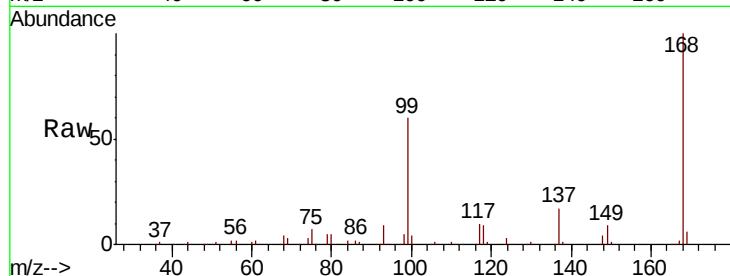
B-12-1.0-1.5

Tot Ion:168 Resp: 117604

Ion Ratio Lower Upper

168 100

99 59.9 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

60000

50000

40000

30000

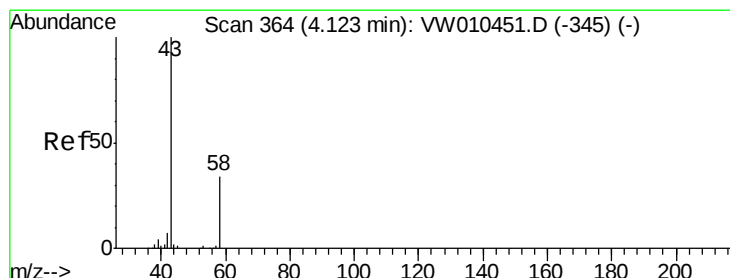
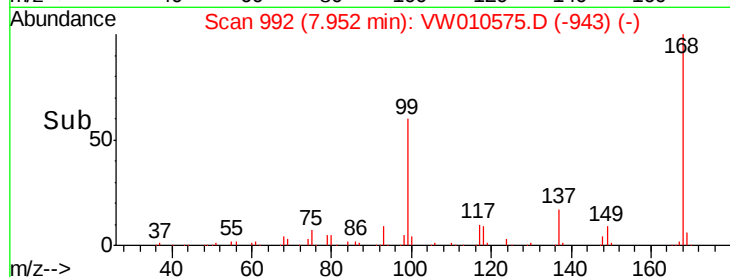
20000

10000

0

7.90 8.00 8.10

Time-->



#16

Acetone

Concen: 11.389 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010575.D

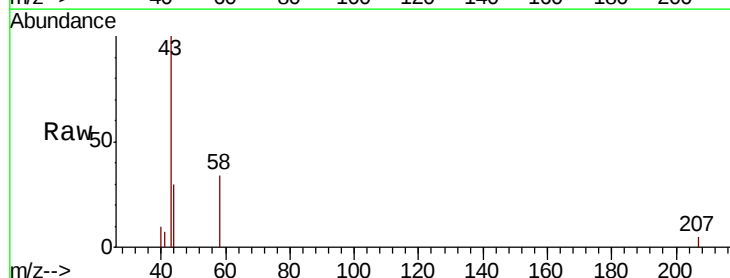
Acq: 28 May 2019 18:51

Tgt Ion: 43 Resp: 2822

Ion Ratio Lower Upper

43 100

58 34.4 27.0 40.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

1200

1000

800

600

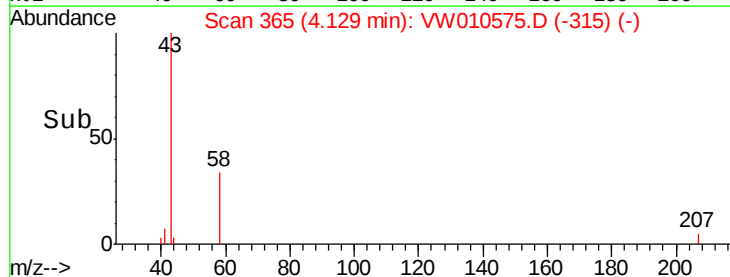
400

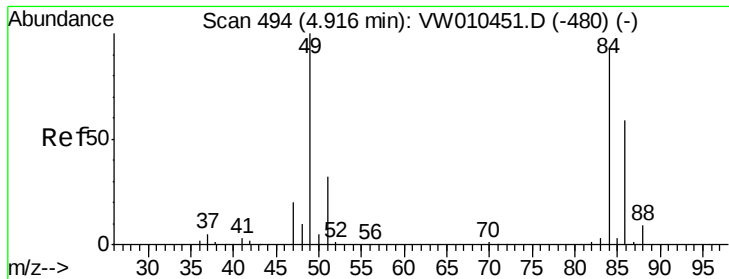
200

0

4.00 4.10 4.20

Time-->

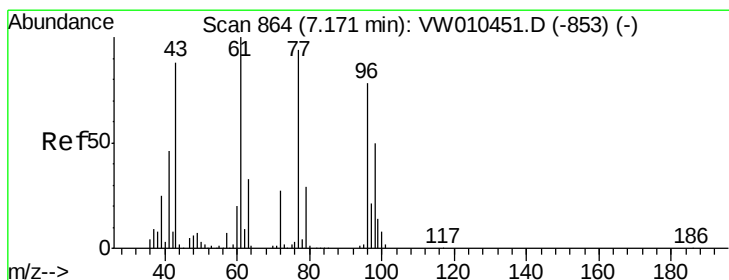
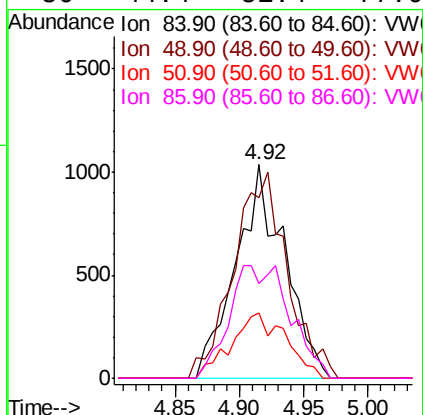
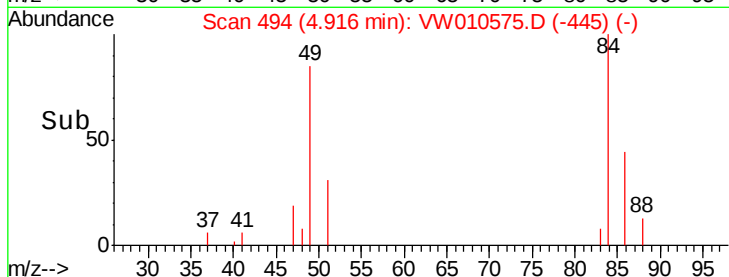
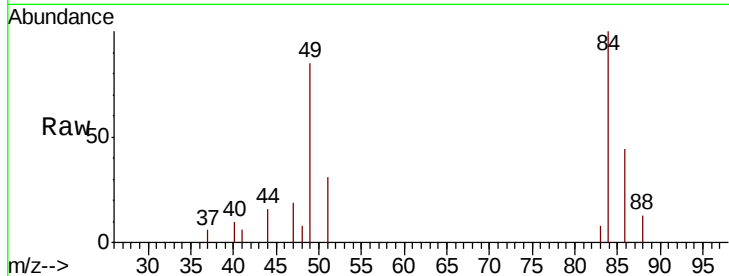




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010575.D
Acq: 28 May 2019 18:51

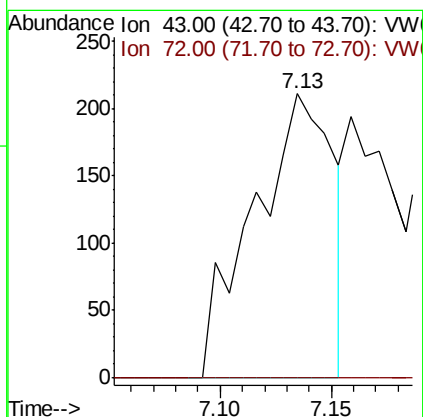
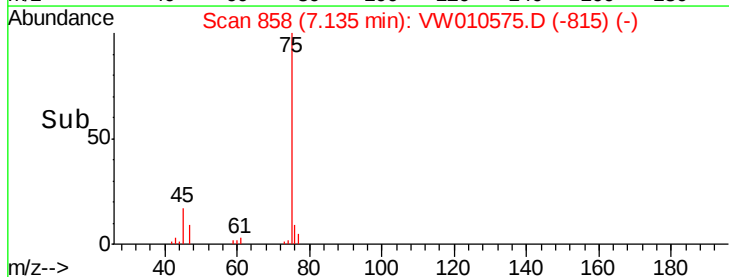
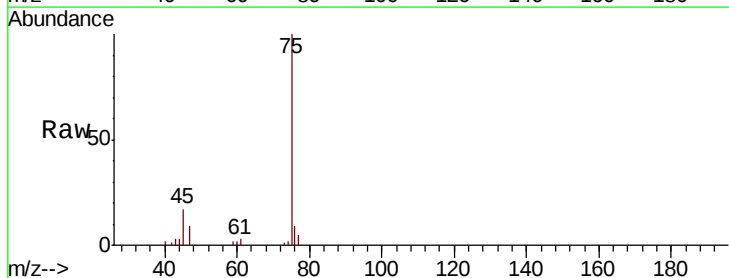
Instrument :
MSVOA_W
ClientSampleId :
B-12-1.0-1.5

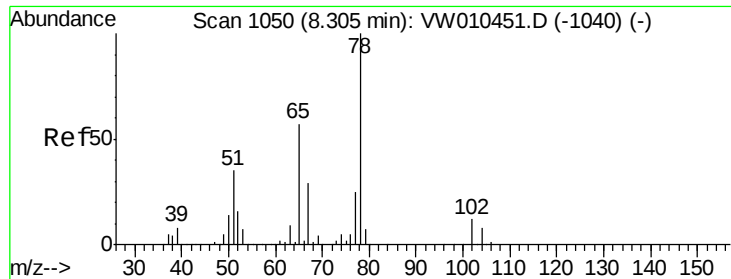
Tot Ion: 84 Resp: 2721
Ion Ratio Lower Upper
84 100
49 84.6 87.2 130.8#
51 30.8 27.7 41.5
86 44.4 51.4 77.0#



#25
2-Butanone
Concen: 1.472 ug/l
RT: 7.13 min Scan# 858
Delta R.T. -0.04 min
Lab File: VW010575.D
Acq: 28 May 2019 18:51

Tgt Ion: 43 Resp: 522
Ion Ratio Lower Upper
43 100
72 0.0 24.1 36.1#





#33

1,2-Dichloroethane-d4

Concen: 51.798 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010575.D

Acq: 28 May 2019 18:51

Instrument :

MSVOA_W

ClientSampleId :

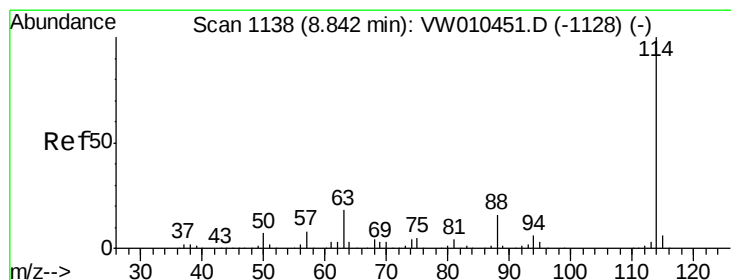
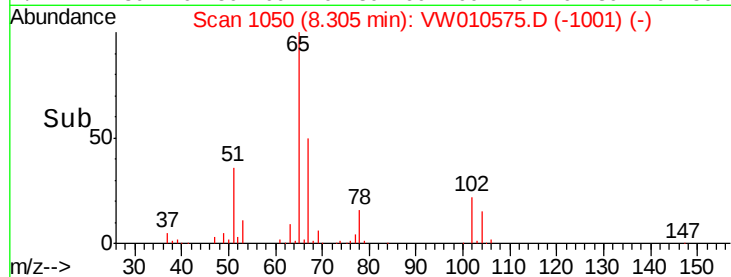
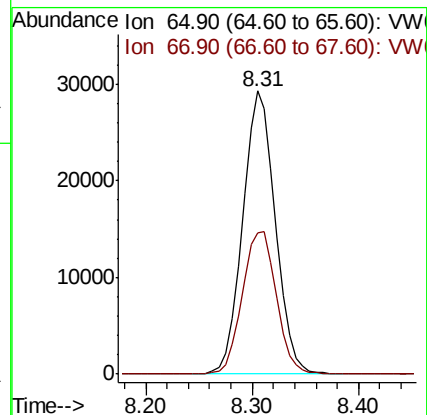
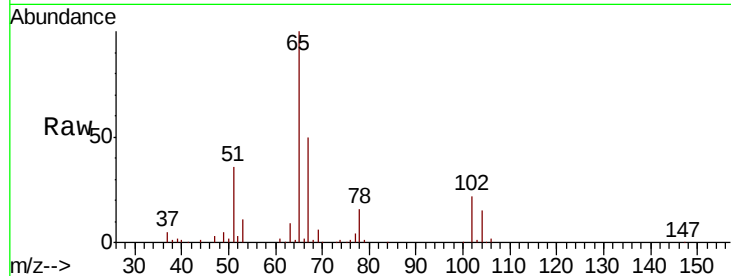
B-12-1.0-1.5

Tot Ion: 65 Resp: 62876

Ion Ratio Lower Upper

65 100

67 52.7 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: VW010575.D

Acq: 28 May 2019 18:51

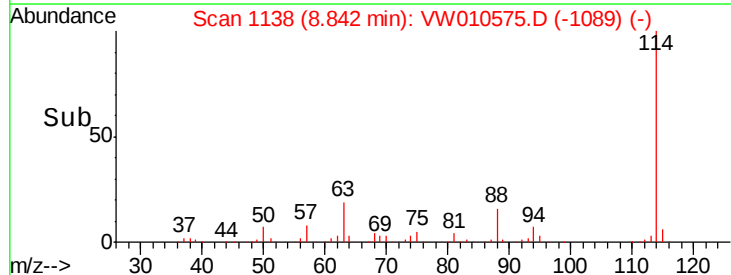
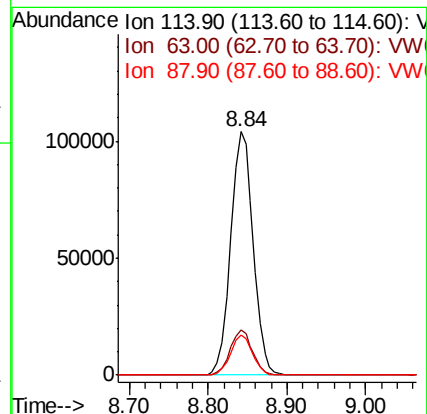
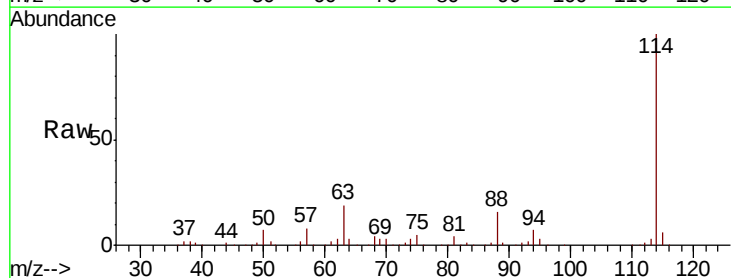
Tgt Ion: 114 Resp: 205718

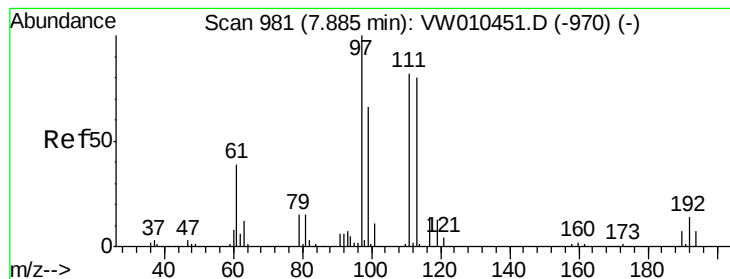
Ion Ratio Lower Upper

114 100

63 18.8 0.0 36.0

88 16.4 0.0 32.0





#35

Dibromofluoromethane

Concen: 50.464 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010575.D

Acq: 28 May 2019 18:51

Instrument :

MSVOA_W

ClientSampleId :

B-12-1.0-1.5

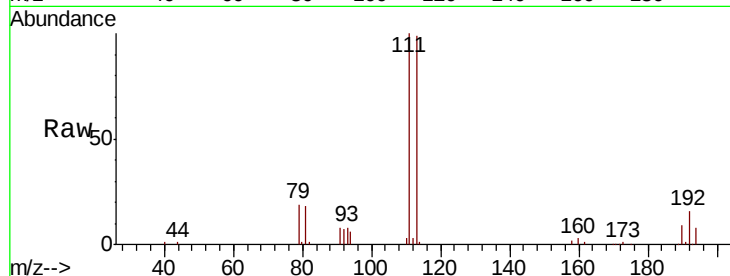
Tot Ion:113 Resp: 62992

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.4

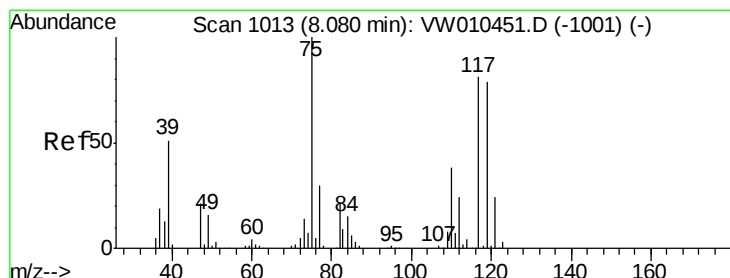
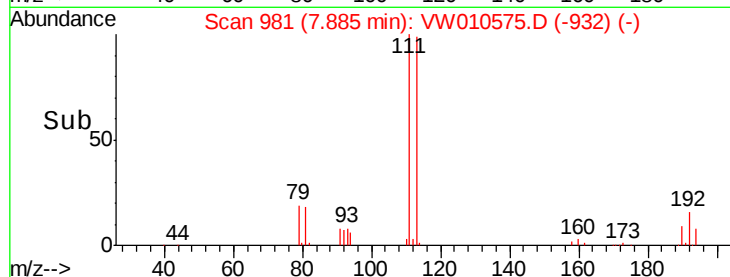
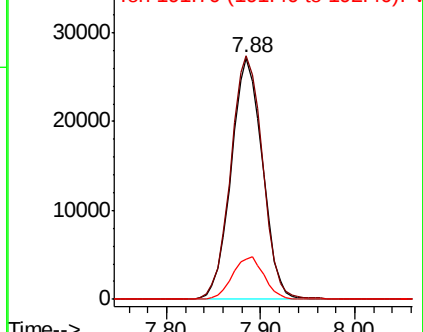
192 17.8 14.3 21.5



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: 4.543 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW010575.D

Acq: 28 May 2019 18:51

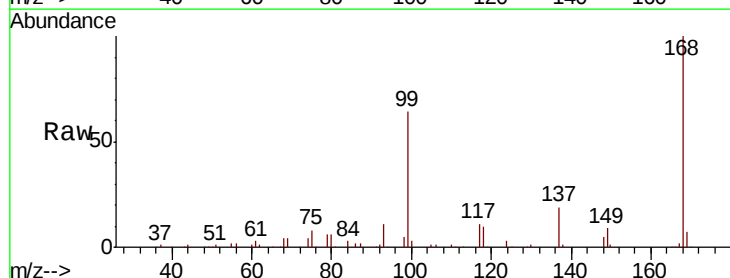
Tgt Ion: 75 Resp: 8707

Ion Ratio Lower Upper

75 100

110 8.7 19.2 57.6#

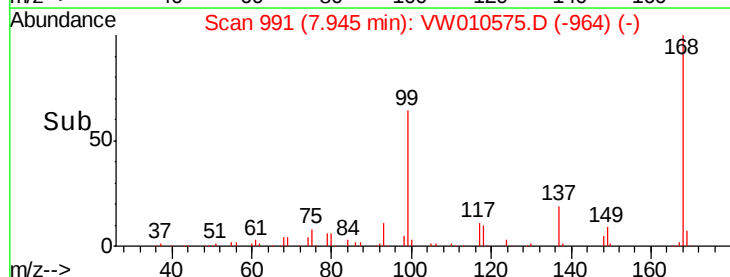
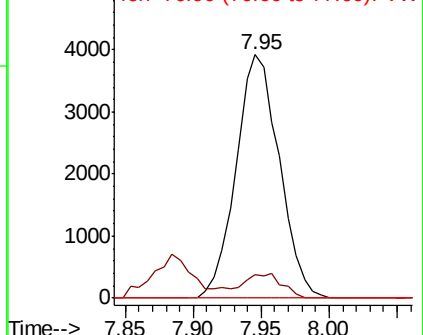
77 0.0 25.2 37.8#

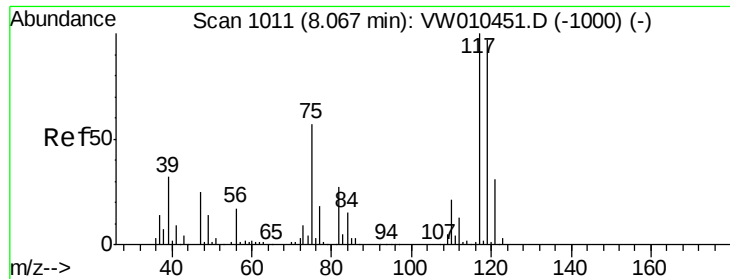


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

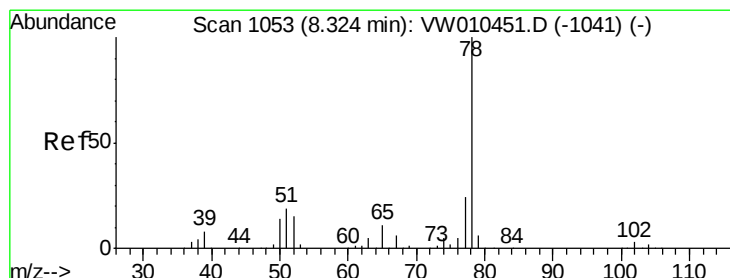
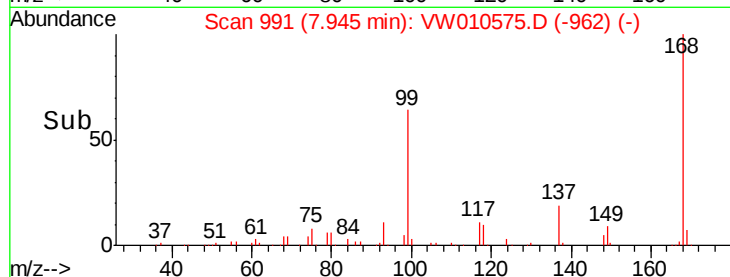
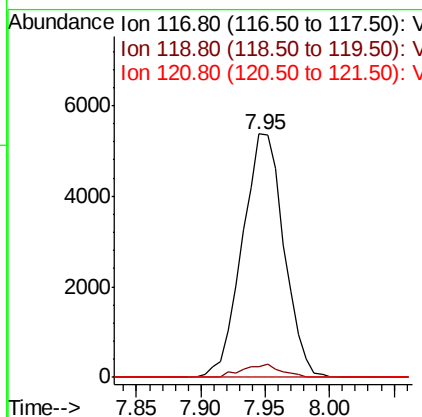
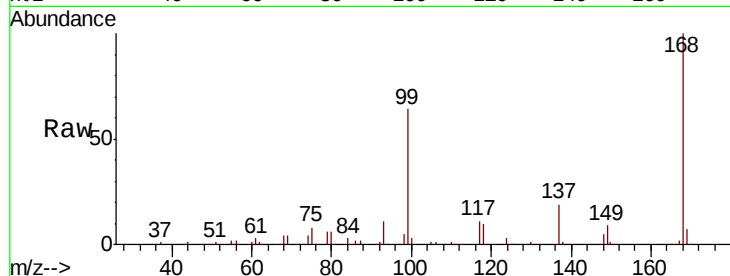




#38
 Carbon Tetrachloride
 Concen: 5.801 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW010575.D
 Acq: 28 May 2019 18:51

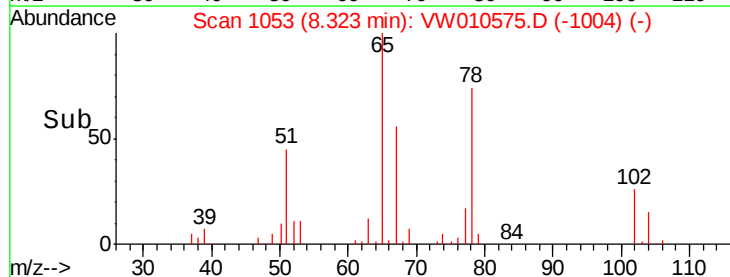
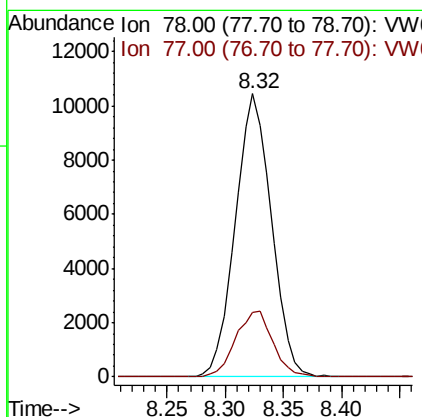
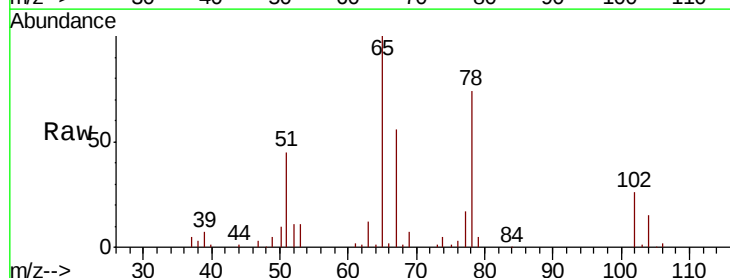
Instrument :
 MSVOA_W
 ClientSampleId :
 B-12-1.0-1.5

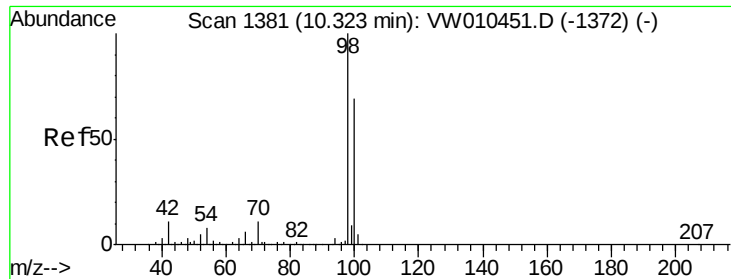
Tot Ion:117 Resp: 11992
 Ion Ratio Lower Upper
 117 100
 119 4.3 77.4 116.0#
 121 0.0 25.0 37.6#



#40
 Benzene
 Concen: 4.248 ug/l
 RT: 8.32 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VW010575.D
 Acq: 28 May 2019 18:51

Tgt Ion: 78 Resp: 22628
 Ion Ratio Lower Upper
 78 100
 77 22.8 18.9 28.3





#50

Toluene-d8

Concen: 53.054 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010575.D

Acq: 28 May 2019 18:51

Instrument :

MSVOA_W

ClientSampleId :

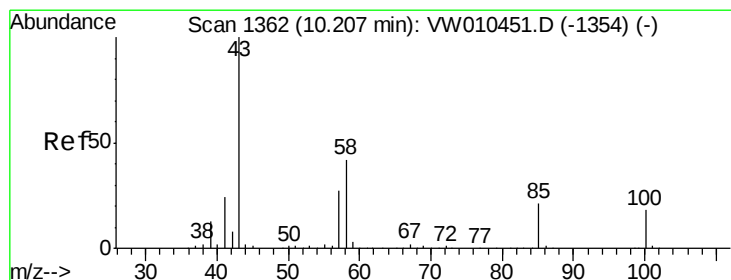
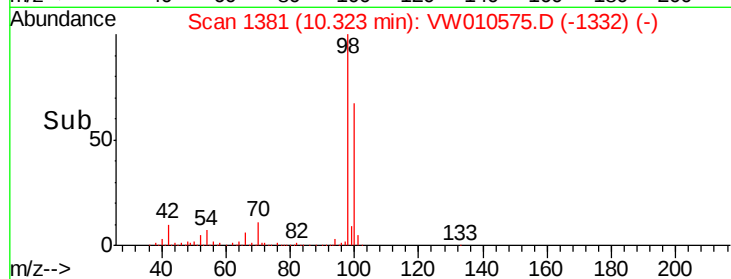
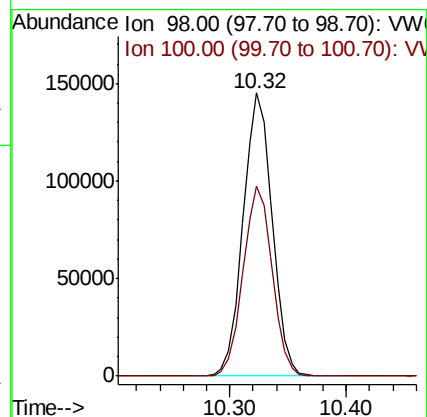
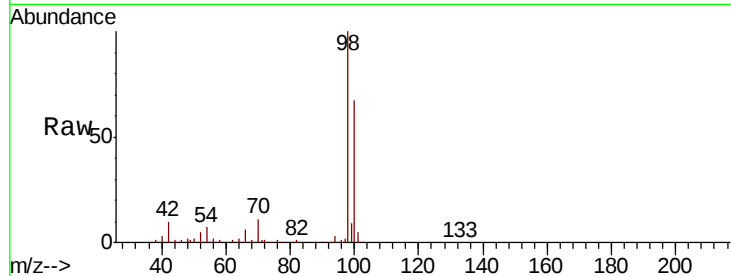
B-12-1.0-1.5

Tot Ion: 98 Resp: 252997

Ion Ratio Lower Upper

98 100

100 67.3 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 1.332 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW010575.D

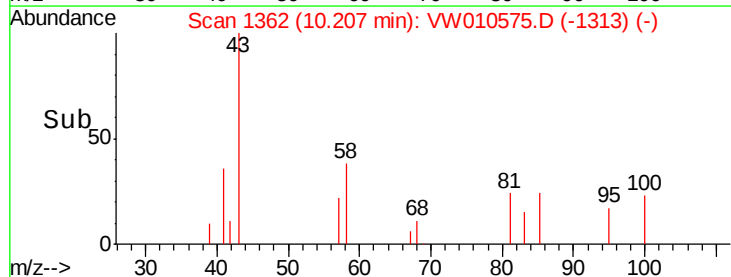
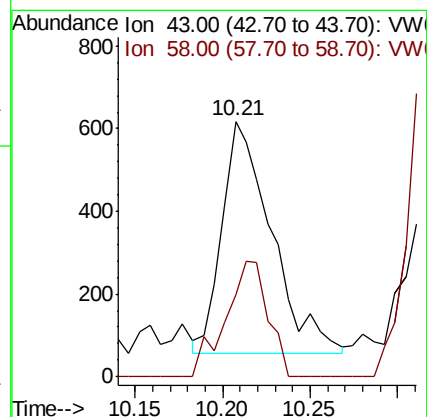
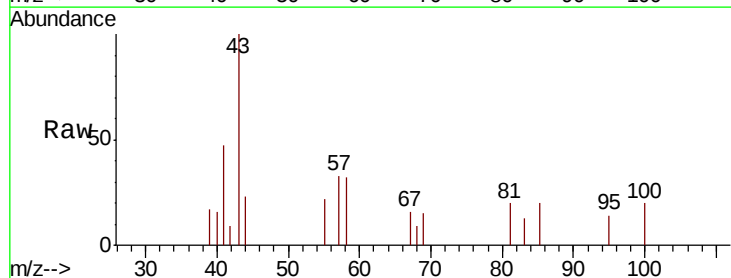
Acq: 28 May 2019 18:51

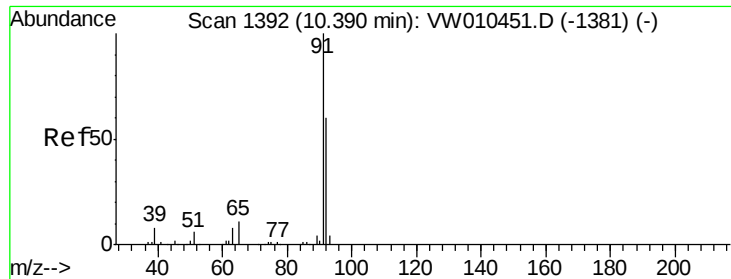
Tgt Ion: 43 Resp: 1099

Ion Ratio Lower Upper

43 100

58 42.8 33.2 49.8





#52

Toluene

Concen: 1.041 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010575.D

Acq: 28 May 2019 18:51

Instrument :

MSVOA_W

ClientSampleId :

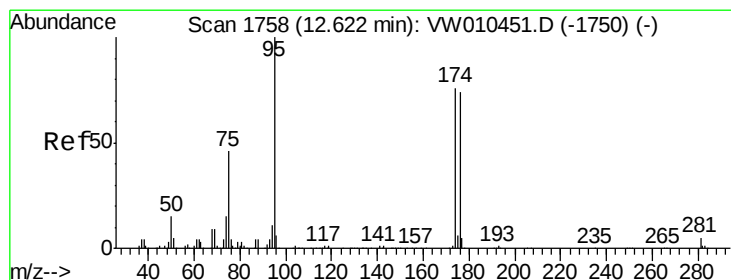
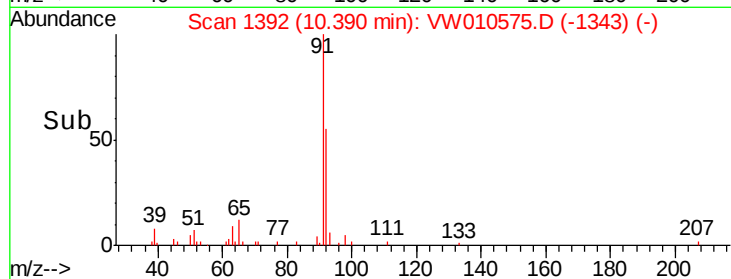
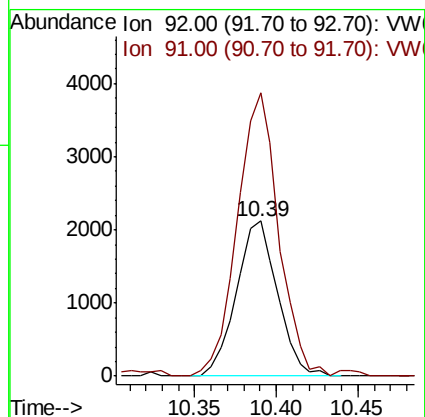
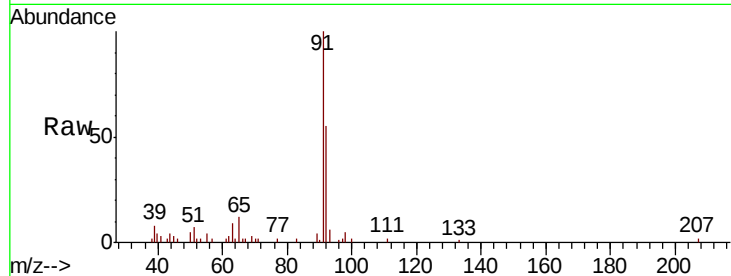
B-12-1.0-1.5

Tot Ion: 92 Resp: 3722

Ion Ratio Lower Upper

92 100

91 183.3 135.4 203.0



#62

4-Bromofluorobenzene

Concen: 50.891 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010575.D

Acq: 28 May 2019 18:51

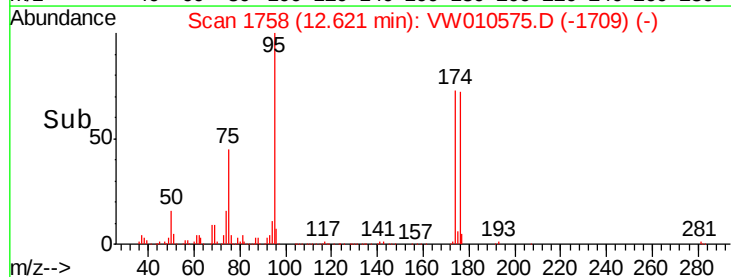
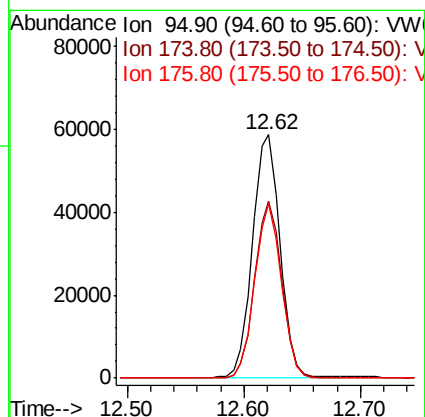
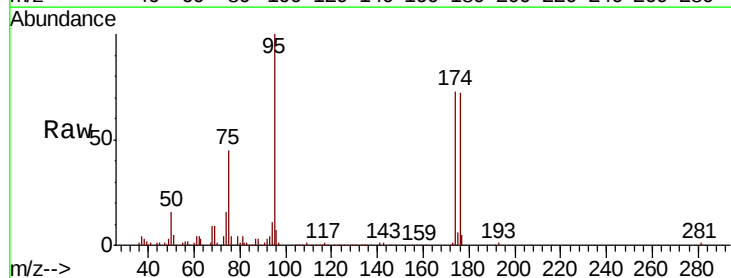
Tgt Ion: 95 Resp: 96664

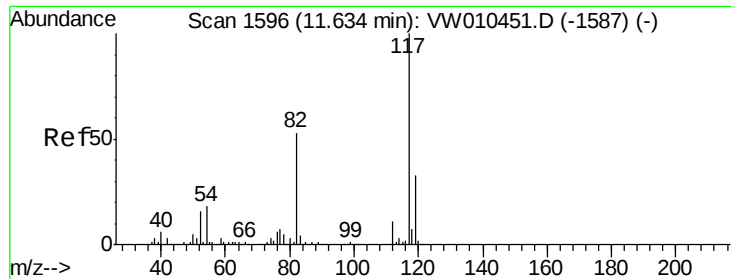
Ion Ratio Lower Upper

95 100

174 71.9 0.0 148.6

176 69.8 0.0 144.2

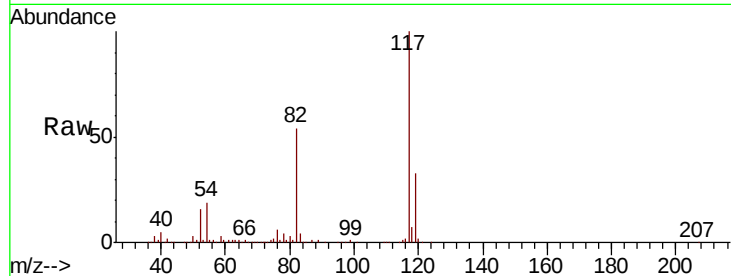




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010575.D
Acq: 28 May 2019 18:51

Instrument :
MSVOA_W
ClientSampleId :
B-12-1.0-1.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.7	42.8	64.2
119	32.9	26.3	39.5

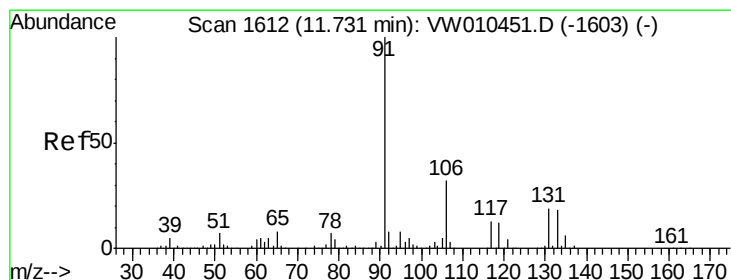
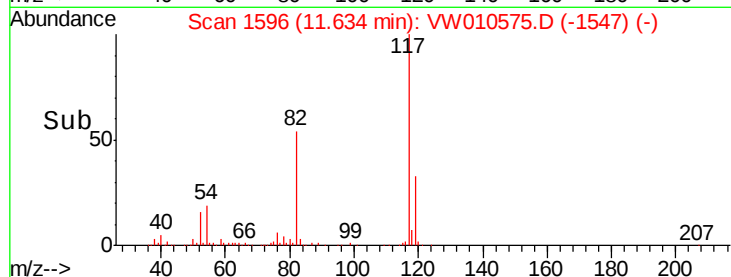
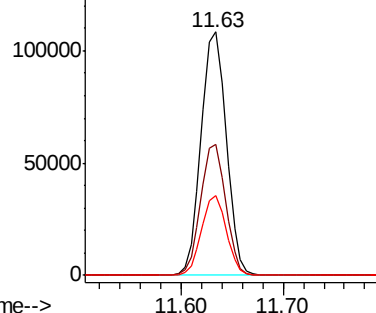


Abundance

Ion 116.90 (116.60 to 117.60): V

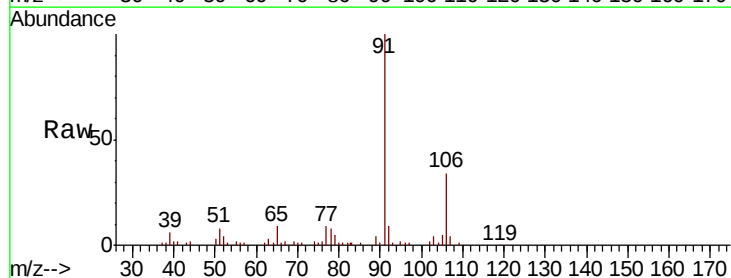
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#67
Ethyl Benzene
Concen: 2.646 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010575.D
Acq: 28 May 2019 18:51

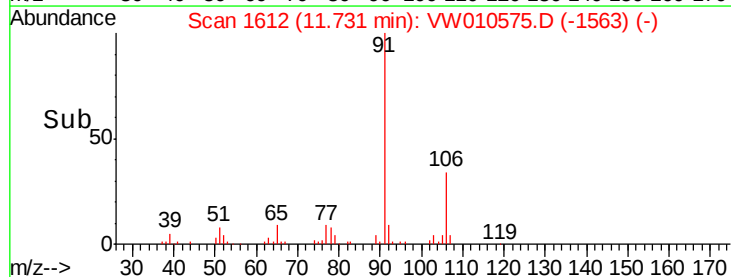
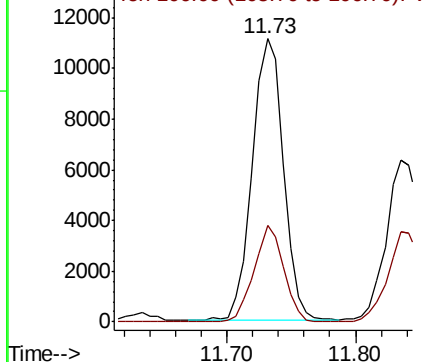
Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.2	25.9	38.9

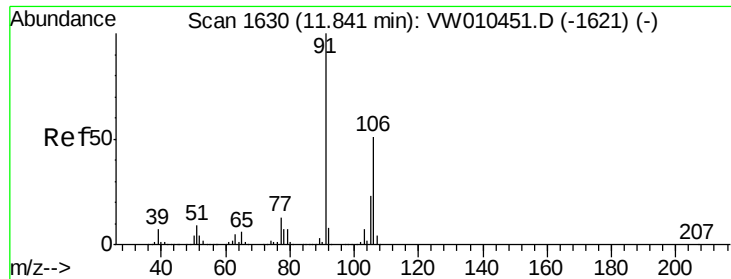


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

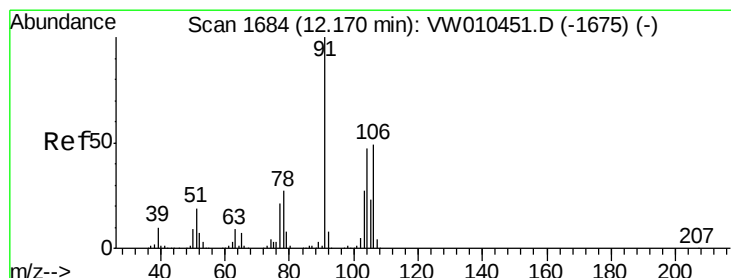
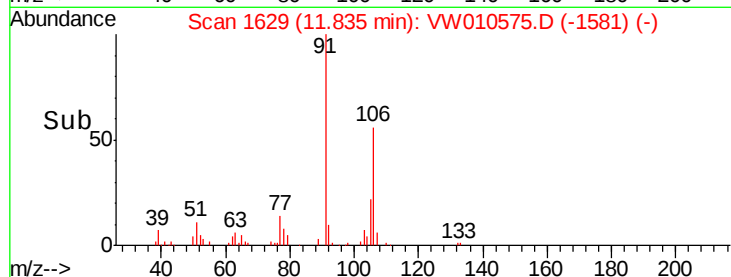
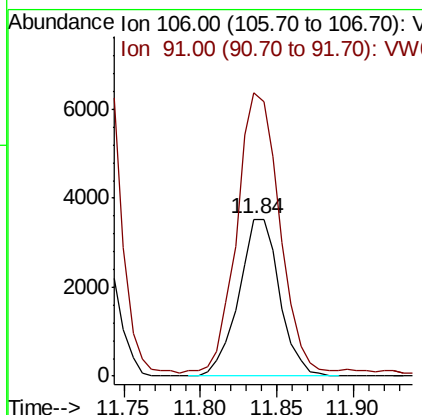
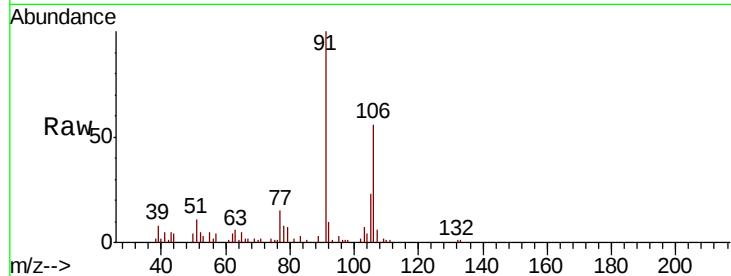




#68
m/p-Xylenes
Concen: 2.391 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW010575.D
Acq: 28 May 2019 18:51

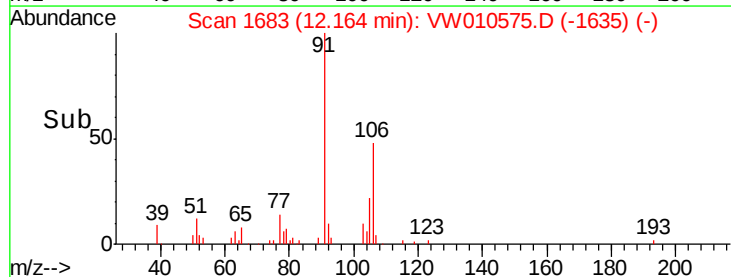
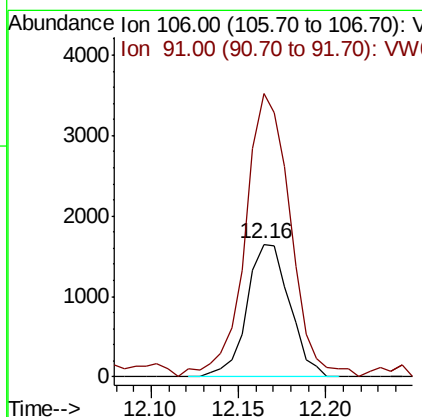
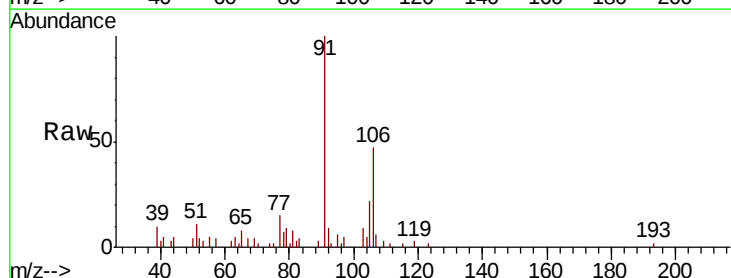
Instrument :
MSVOA_W
ClientSampled :
B-12-1.0-1.5

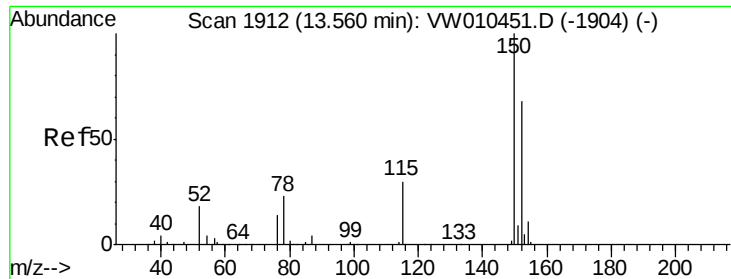
Tot Ion:106 Resp: 6552
Ion Ratio Lower Upper
106 100
91 186.5 156.0 234.0



#69
o-Xylene
Concen: 1.080 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010575.D
Acq: 28 May 2019 18:51

Tgt Ion:106 Resp: 2803
Ion Ratio Lower Upper
106 100
91 225.9 103.2 309.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010575.D

Acq: 28 May 2019 18:51

Instrument :

MSVOA_W

ClientSampled :

B-12-1.0-1.5

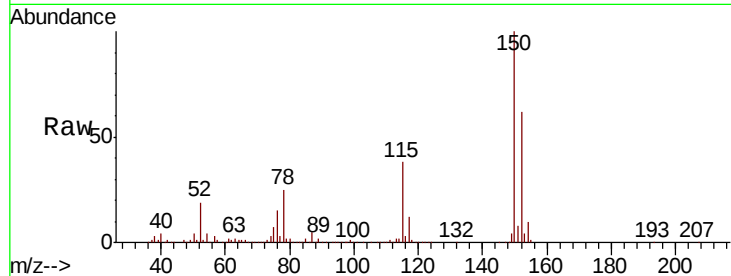
Tot Ion:152 Resp: 85889

Ion Ratio Lower Upper

152 100

115 62.0 30.3 91.0

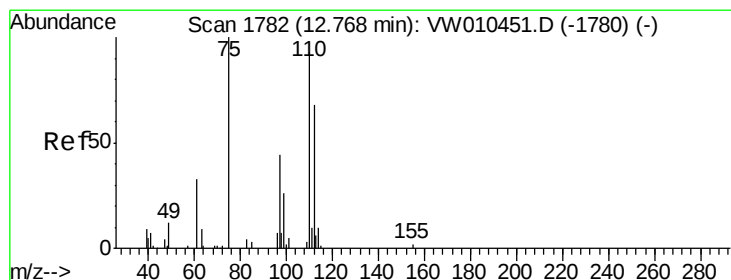
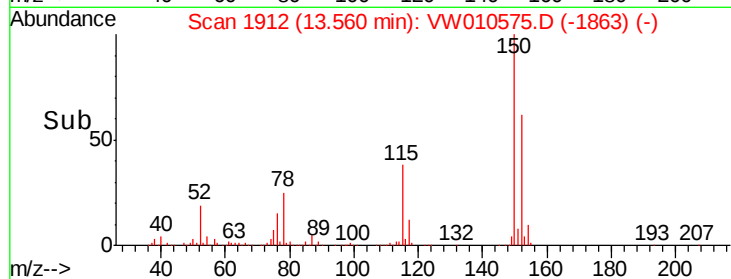
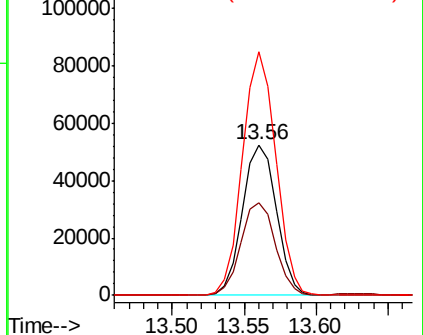
150 158.3 0.0 349.8



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



#76

1,2,3-Trichloropropane

Concen: 51.198 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW010575.D

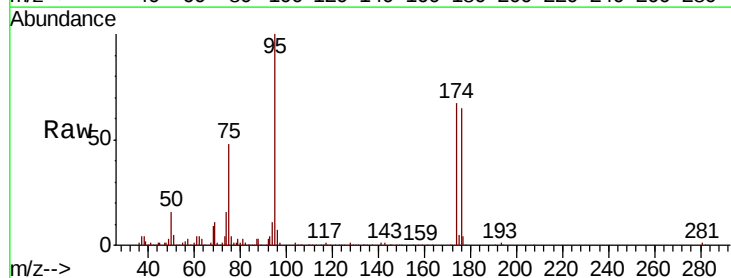
Acq: 28 May 2019 18:51

Tgt Ion: 75 Resp: 44636

Ion Ratio Lower Upper

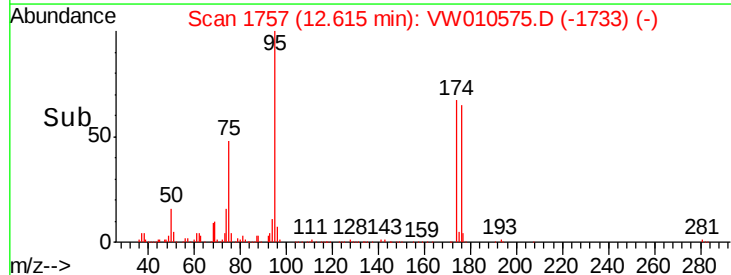
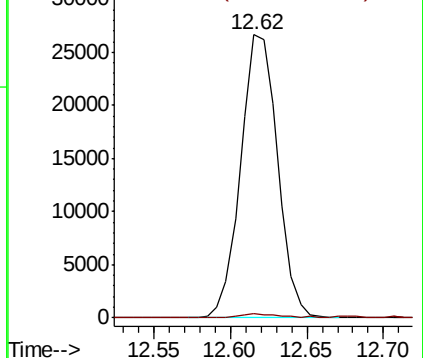
75 100

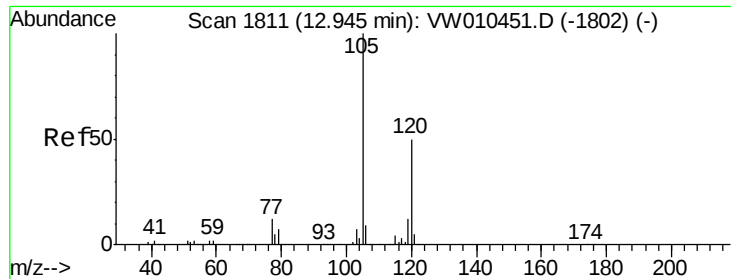
77 2.1 170.0 510.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

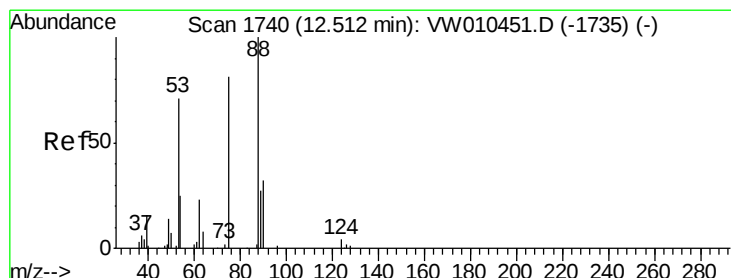
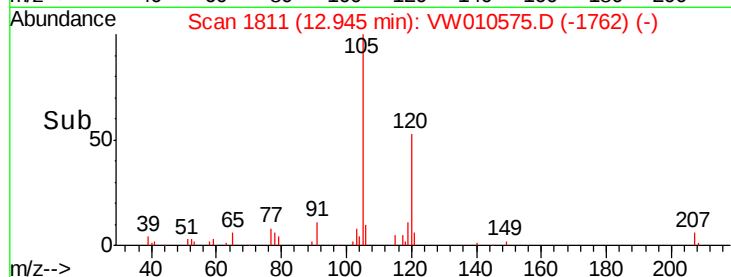
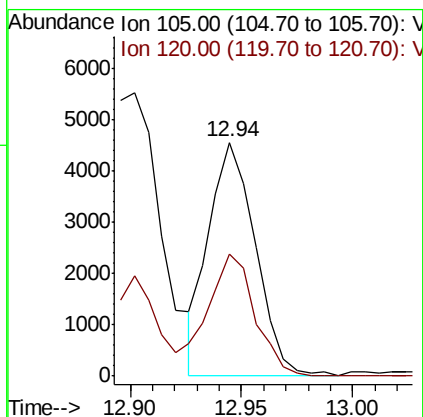
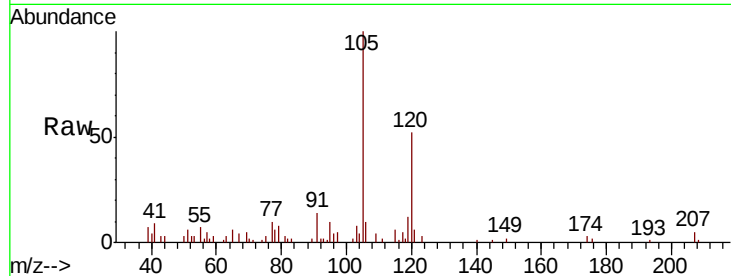




#80
 1,3,5-Trimethylbenzene
 Concen: 1.153 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW010575.D
 Acq: 28 May 2019 18:51

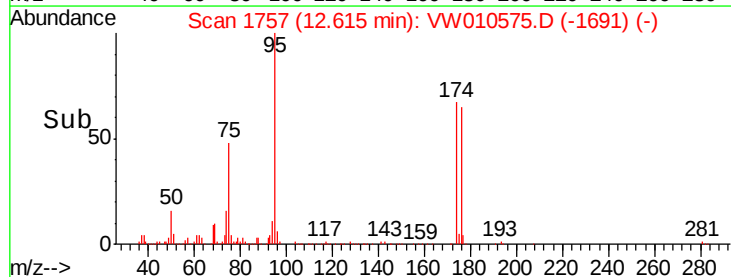
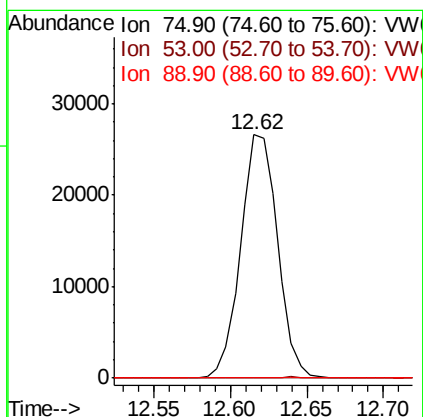
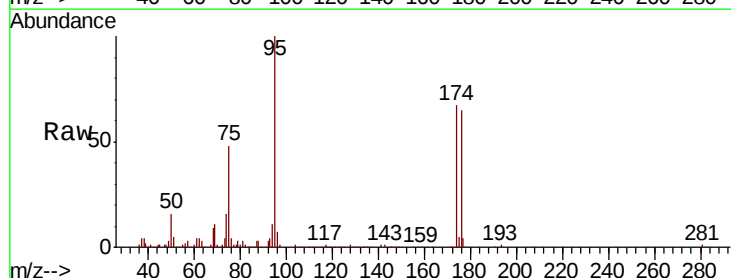
Instrument :
 MSVOA_W
 ClientSampled :
 B-12-1.0-1.5

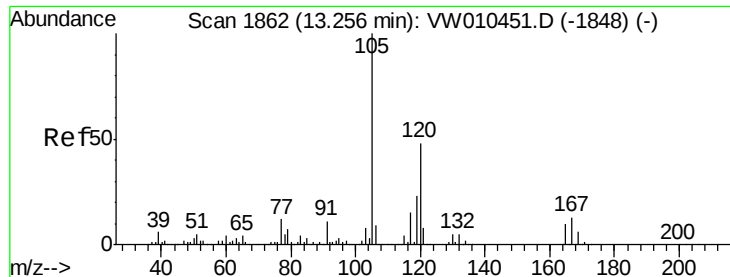
Tot Ion:105 Resp: 6654
 Ion Ratio Lower Upper
 105 100
 120 53.5 25.2 75.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.852 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW010575.D
 Acq: 28 May 2019 18:51

Tgt Ion: 75 Resp: 44636
 Ion Ratio Lower Upper
 75 100
 53 0.1 69.8 104.8#
 89 0.1 39.5 59.3#

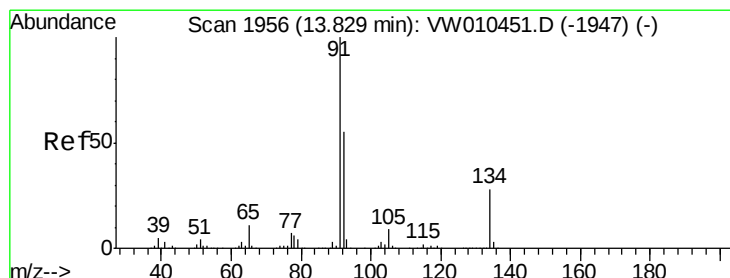
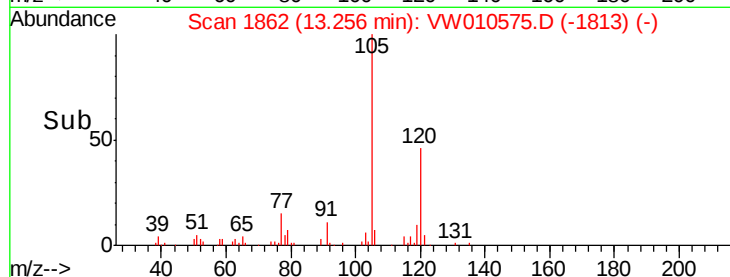
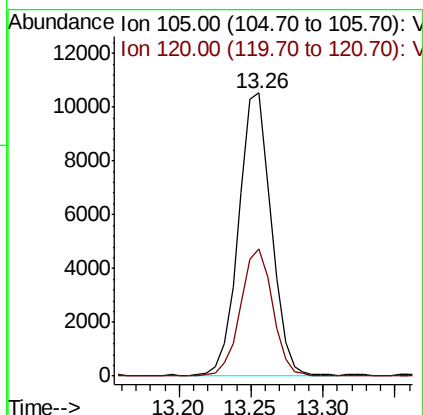
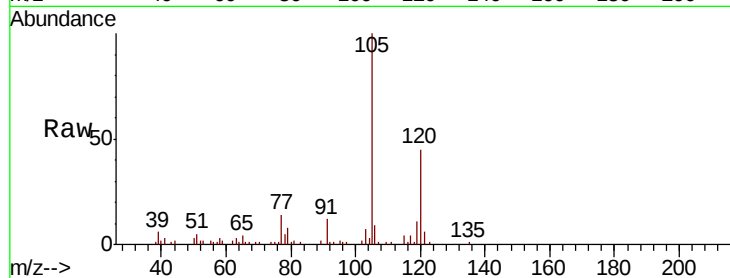




#84
 1,2,4-Trimethylbenzene
 Concen: 2.889 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW010575.D
 Acq: 28 May 2019 18:51

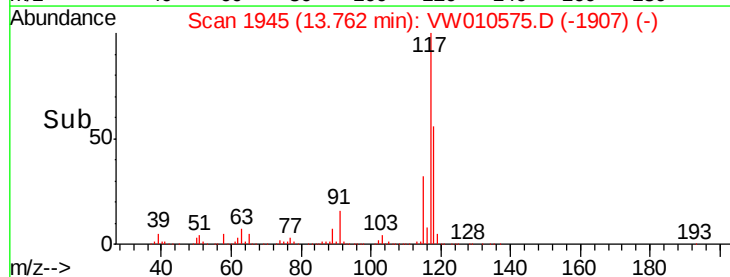
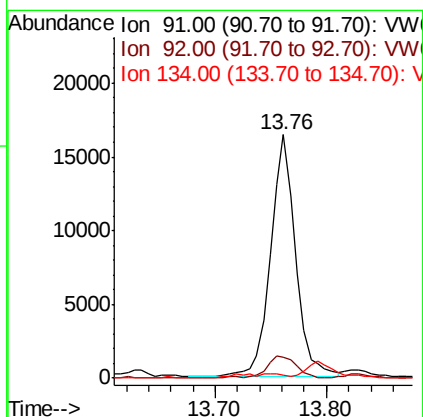
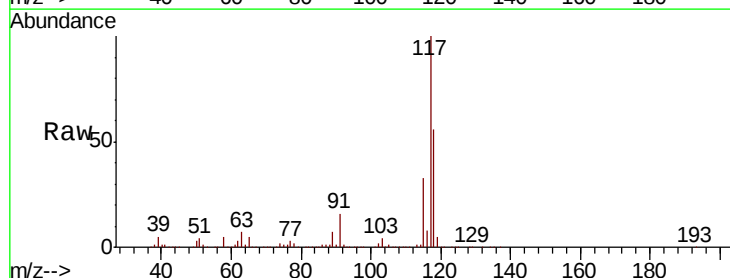
Instrument :
 MSVOA_W
 ClientSampleId :
 B-12-1.0-1.5

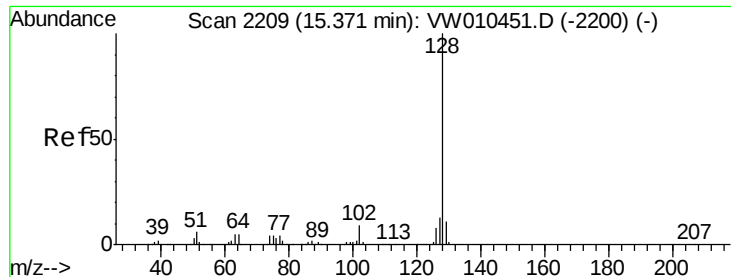
Tot Ion:105 Resp: 16608
 Ion Ratio Lower Upper
 105 100
 120 44.0 23.4 70.2



#89
 n-Butylbenzene
 Concen: 4.242 ug/l
 RT: 13.76 min Scan# 1945
 Delta R.T. -0.07 min
 Lab File: VW010575.D
 Acq: 28 May 2019 18:51

Tgt Ion: 91 Resp: 25769
 Ion Ratio Lower Upper
 91 100
 92 10.5 27.7 83.1#
 134 1.5 13.9 41.6#





#95
Naphthalene
Concen: 35.046 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010575.D
Acq: 28 May 2019 18:51

Instrument :
MSVOA_W
ClientSampleId :
B-12-1.0-1.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	15.8
129	11.0	8.9	13.3

