

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082119\
 Data File : VW012067.D
 Acq On : 21 Aug 2019 13:09
 Operator : SY/VA
 Sample : K4388-02RE
 Misc : 6.96G/5ML/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T4-B4-(0)RE

Quant Time: Aug 22 05:14:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	22348	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	32667	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	21006	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	3674	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	13950	54.36	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.72%	
35) Dibromofluoromethane	7.89	113	10682	58.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	116.58%	
50) Toluene-d8	10.32	98	34829	46.42	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	92.84%	
62) 4-Bromofluorobenzene	12.62	95	6876	25.70	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	51.40%	

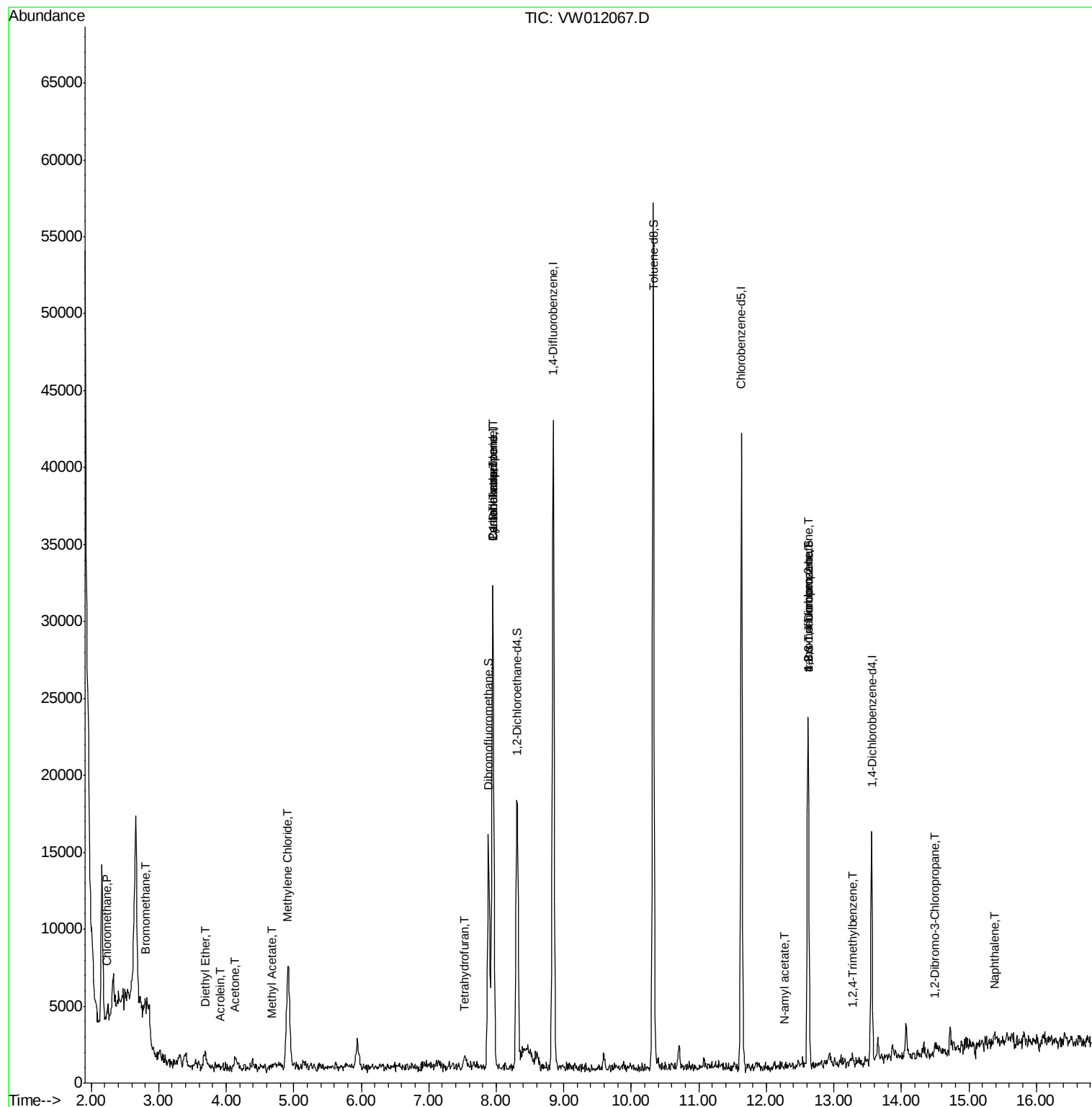
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.23	50	342	1.584	ug/l #	86
5) Bromomethane	2.79	94	157	1.091	ug/l #	3
8) Diethyl Ether	3.68	74	485	3.681	ug/l	65
11) Tert butyl alcohol	5.17	59	71	Below Cal	#	72
13) Acrolein	3.92	56	49	2.661	ug/l #	77
16) Acetone	4.12	43	1535	18.805	ug/l	90
18) Methyl Acetate	4.67	43	213	1.162	ug/l #	57
20) Methylene Chloride	4.91	84	4564	16.212	ug/l	93
29) Tetrahydrofuran	7.54	42	889	14.560	ug/l #	79
31) Cyclohexane	7.95	56	788	1.642	ug/l #	34
36) 1,1-Dichloropropene	7.95	75	2084	6.135	ug/l #	55
38) Carbon Tetrachloride	7.95	117	2259	7.769	ug/l #	17
74) N-ethyl acetate	12.26	43	109	1.270	ug/l #	47
76) 1,2,3-Trichloropropane	12.62	75	3572	91.884	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	3572	211.761	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.27	105	243	1.050	ug/l #	32
92) 1,2-Dibromo-3-Chloropropan	14.50	75	22	2.502	ug/l #	5
95) Naphthalene	15.37	128	153	3.077	ug/l #	69

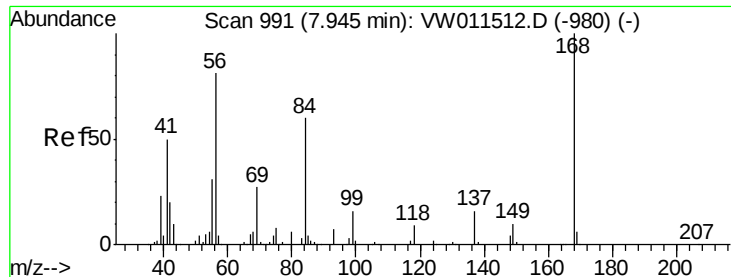
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012067.D

Acq: 21 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

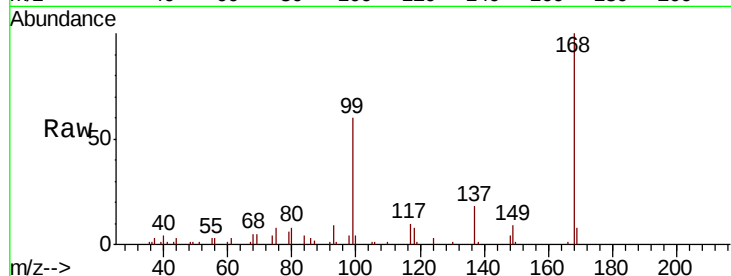
T4-B4-(0)RE

Tgt Ion:168 Resp: 22348

Ion Ratio Lower Upper

168 100

99 59.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

12000

10000

8000

6000

4000

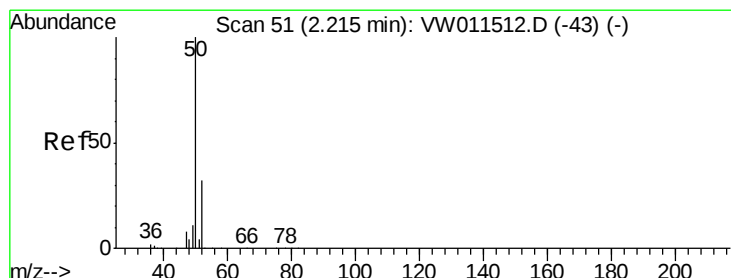
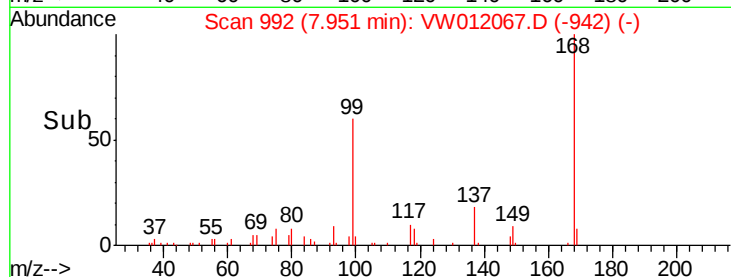
2000

0

Time-->

7.90

8.00



#3

Chloromethane

Concen: 1.584 ug/l

RT: 2.23 min Scan# 53

Delta R.T. 0.01 min

Lab File: VW012067.D

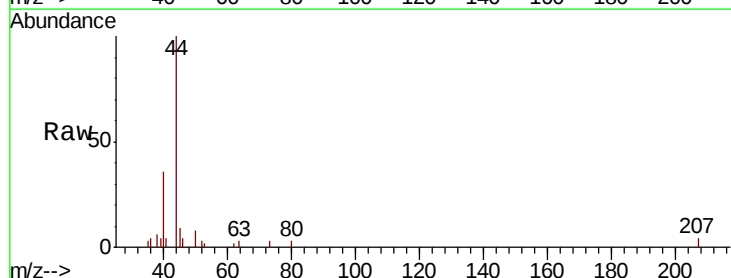
Acq: 21 Aug 2019 13:09

Tgt Ion: 50 Resp: 342

Ion Ratio Lower Upper

50 100

52 39.4 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.23

200

150

100

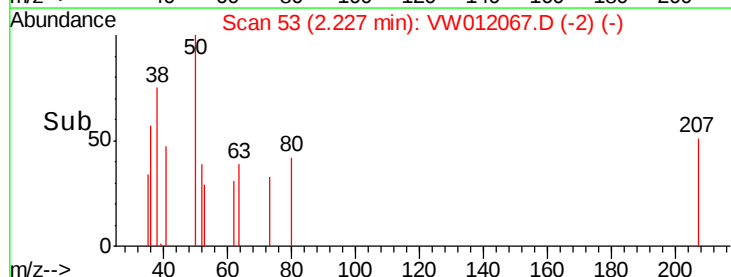
50

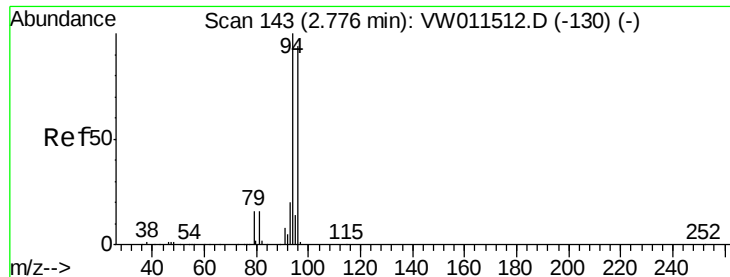
0

Time-->

2.20

2.25





#5

Bromomethane

Concen: 1.091 ug/l

RT: 2.79 min Scan# 146

Delta R.T. 0.02 min

Lab File: VW012067.D

Acq: 21 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampled :

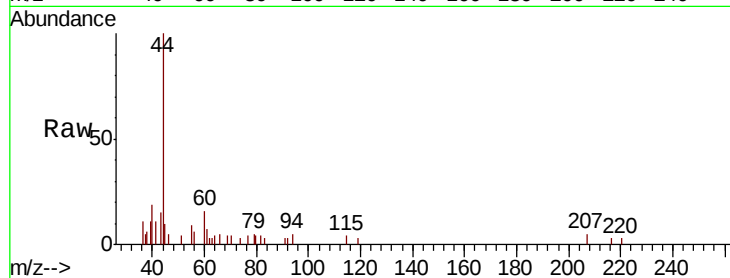
T4-B4-(0)RE

Tgt Ion: 94 Resp: 157

Ion Ratio Lower Upper

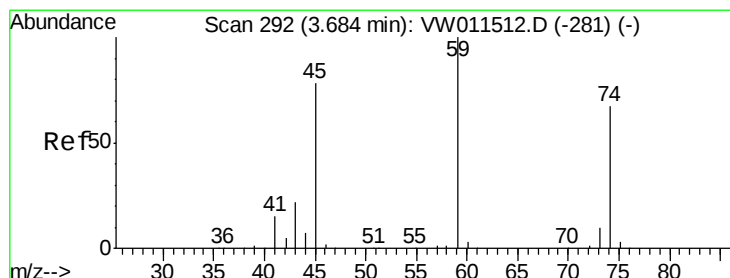
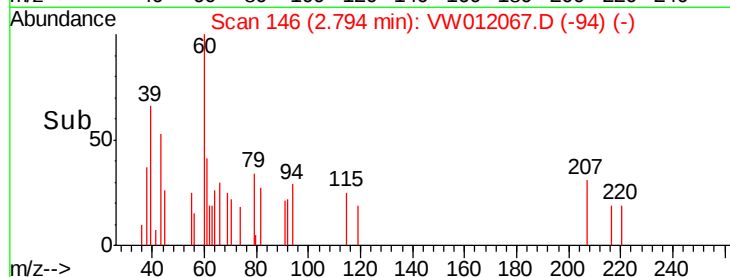
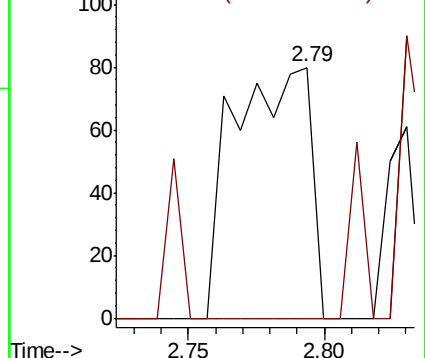
94 100

96 0.0 75.0 112.6#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#8

Diethyl Ether

Concen: 3.681 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.00 min

Lab File: VW012067.D

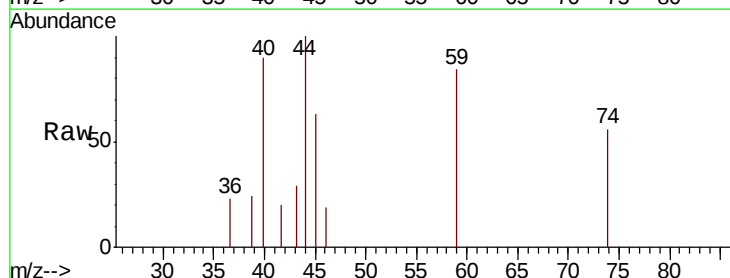
Acq: 21 Aug 2019 13:09

Tgt Ion: 74 Resp: 485

Ion Ratio Lower Upper

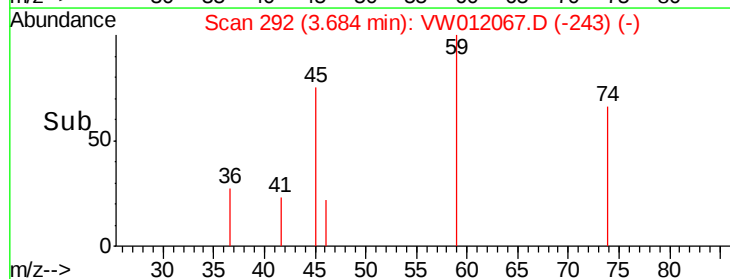
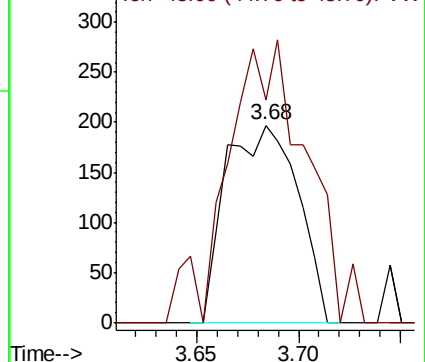
74 100

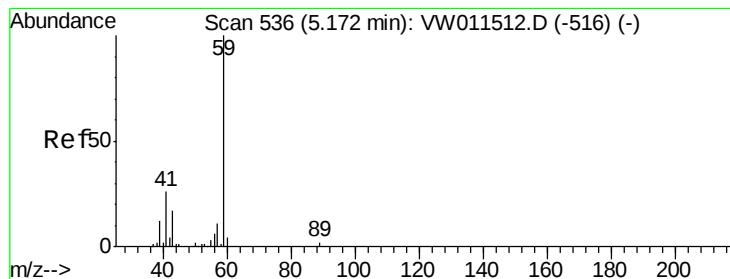
45 157.7 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



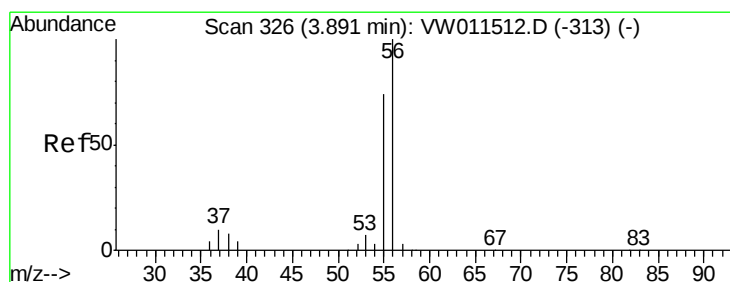
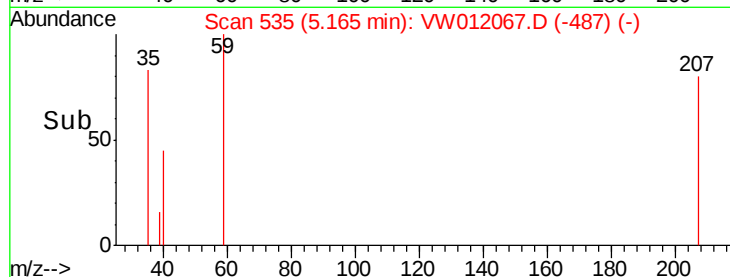
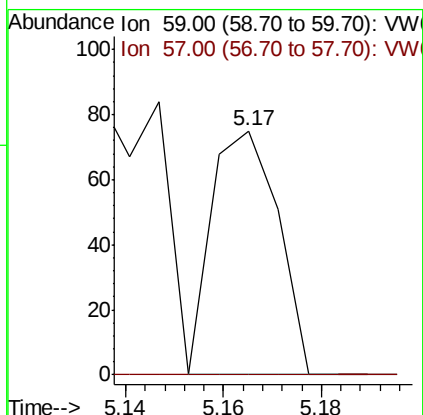
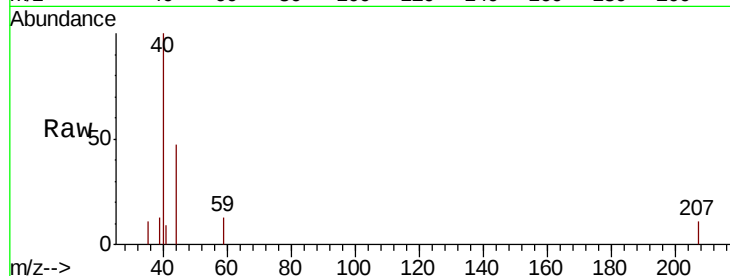


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.17 min Scan# 535
 Delta R.T. -0.01 min
 Lab File: VW012067.D
 Acq: 21 Aug 2019 13:09

Instrument :
 MSVOA_W
 ClientSampled :
 T4-B4-(0)RE

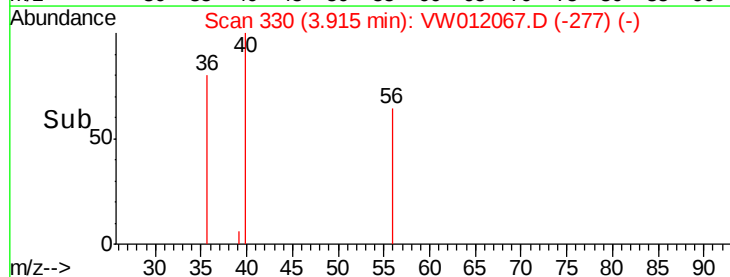
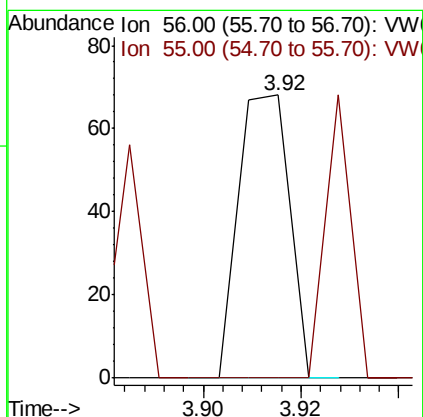
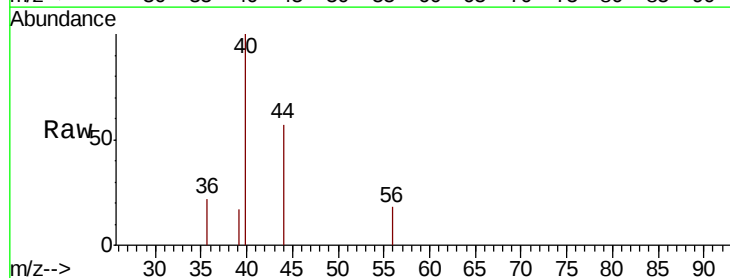
Tgt Ion: 59 Resp: 71
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

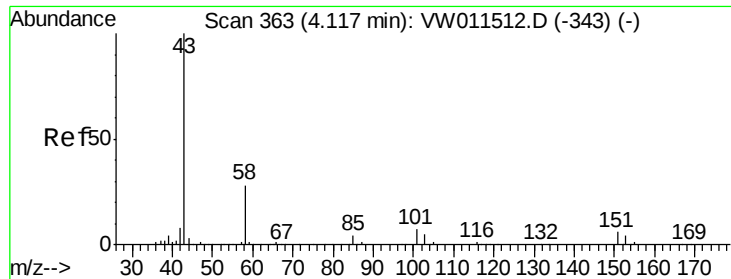


#13

Acrolein
 Concen: 2.661 ug/l
 RT: 3.92 min Scan# 330
 Delta R.T. 0.02 min
 Lab File: VW012067.D
 Acq: 21 Aug 2019 13:09

Tgt Ion: 56 Resp: 49
 Ion Ratio Lower Upper
 56 100
 55 51.0 56.0 84.0#





#16

Acetone

Concen: 18.805 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW012067.D

Acq: 21 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

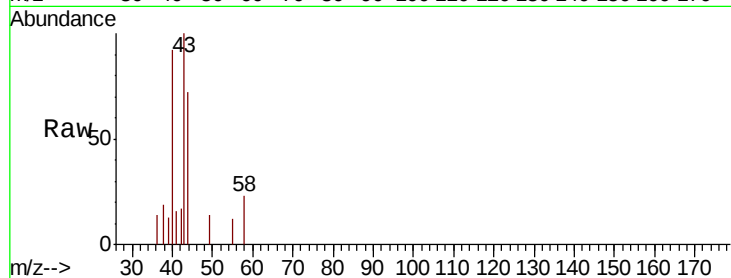
T4-B4-(0)RE

Tgt Ion: 43 Resp: 1535

Ion Ratio Lower Upper

43 100

58 22.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

400

300

200

100

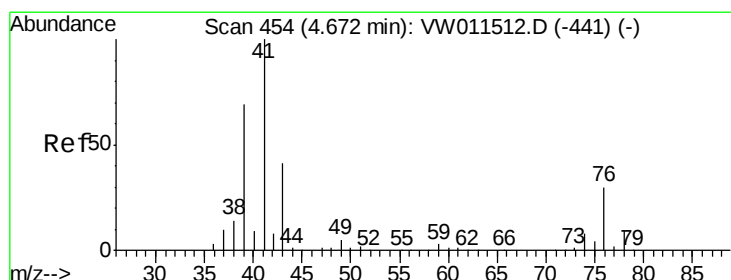
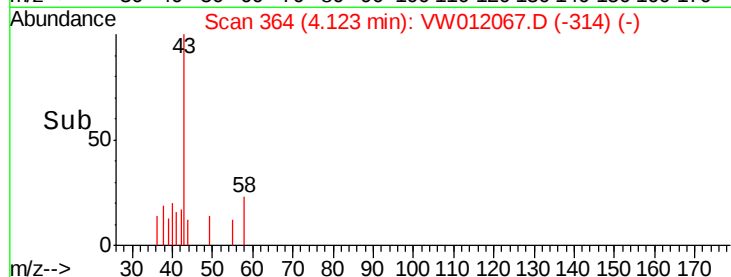
0

4.00

4.10

4.20

Time-->



#18

Methyl Acetate

Concen: 1.162 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW012067.D

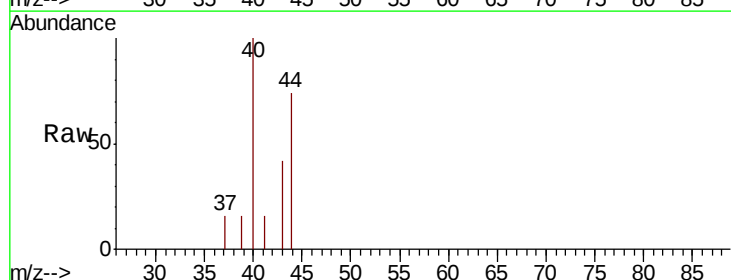
Acq: 21 Aug 2019 13:09

Tgt Ion: 43 Resp: 213

Ion Ratio Lower Upper

43 100

74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.67

200

150

100

50

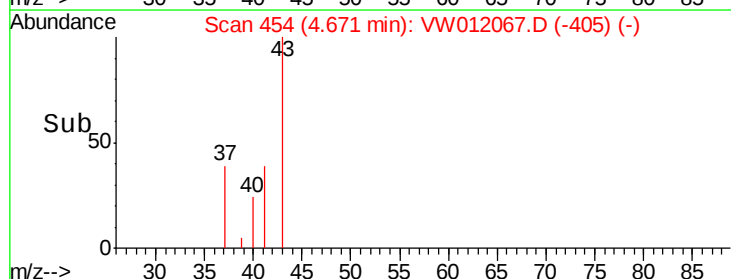
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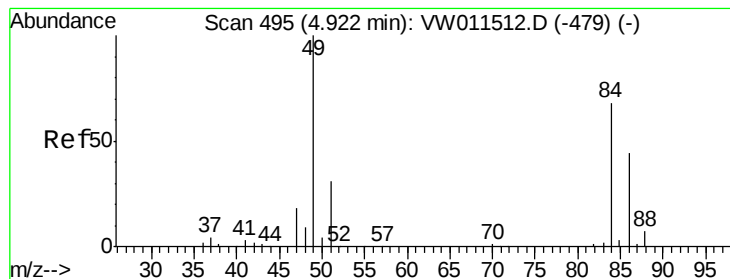
4.64

4.66

4.68

Time-->





#20

Methylene Chloride

Concen: 16.212 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012067.D

Acq: 21 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

T4-B4-(0)RE

Tgt Ion: 84 Resp: 4564

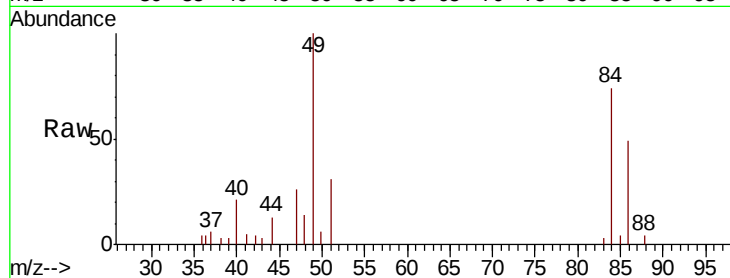
Ion Ratio Lower Upper

84 100

49 136.0 117.8 176.6

51 42.2 37.0 55.4

86 66.8 51.8 77.8



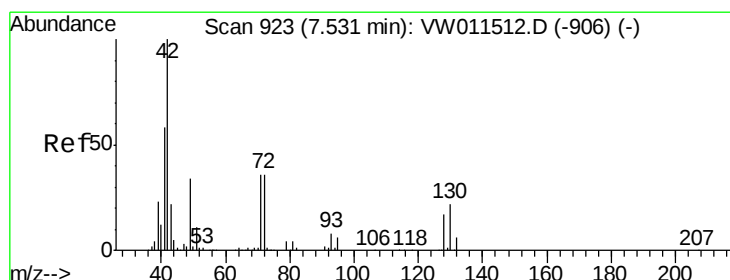
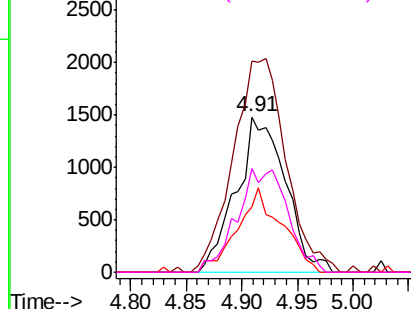
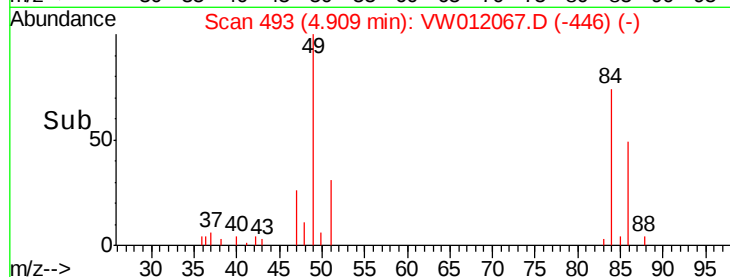
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#29

Tetrahydrofuran

Concen: 14.560 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012067.D

Acq: 21 Aug 2019 13:09

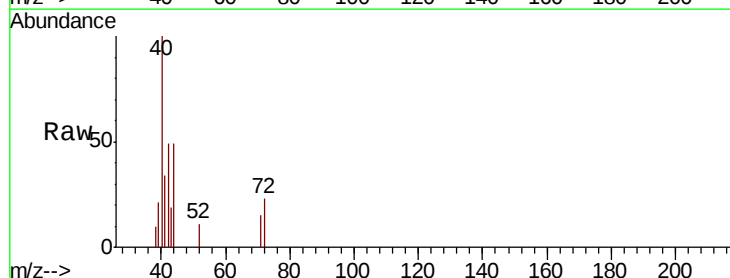
Tgt Ion: 42 Resp: 889

Ion Ratio Lower Upper

42 100

72 25.3 27.1 40.7#

71 17.2 26.2 39.4#

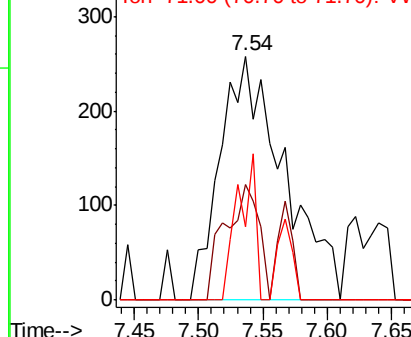
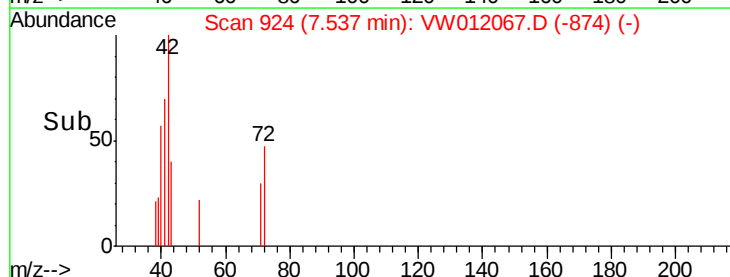


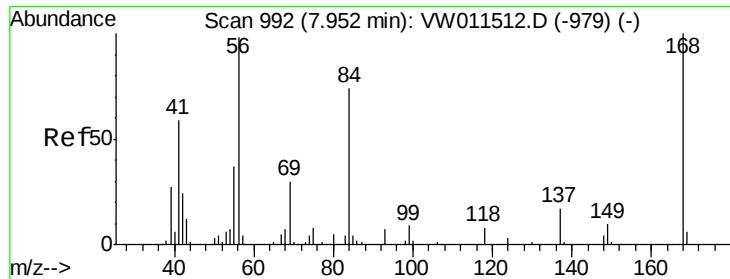
Abundance

Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

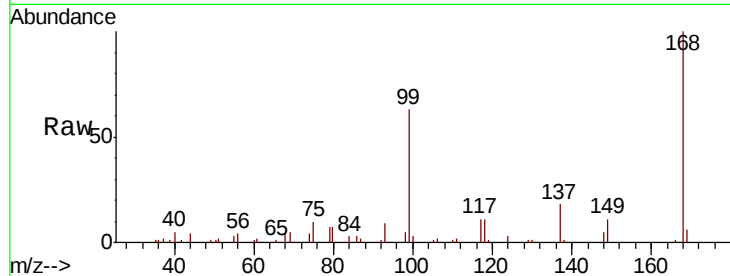




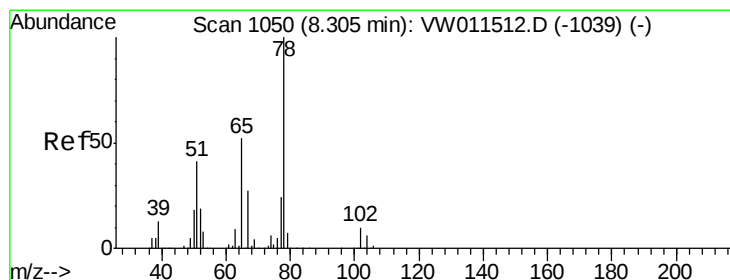
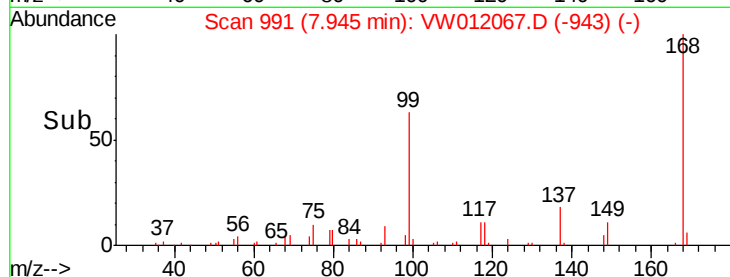
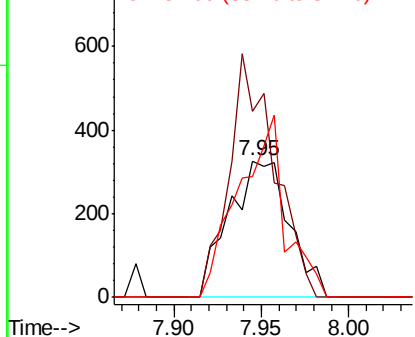
#31
Cyclohexane
Concen: 1.642 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012067.D
Acq: 21 Aug 2019 13:09

Instrument :
MSVOA_W
ClientSampleId :
T4-B4-(0)RE

Tgt Ion: 56 Resp: 788
Ion Ratio Lower Upper
56 100
69 135.8 24.3 36.5#
84 88.7 60.4 90.6

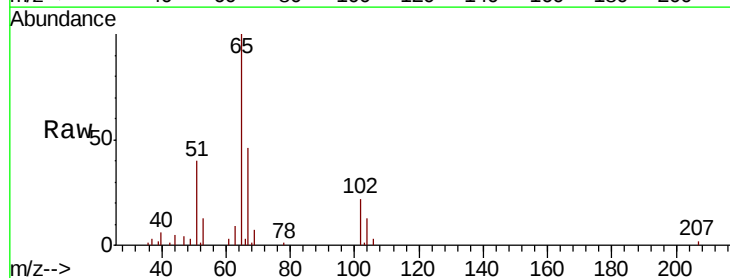


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

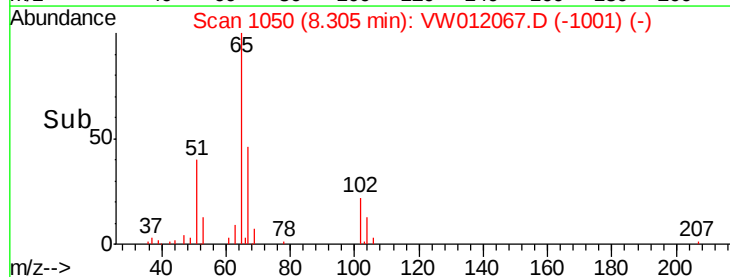
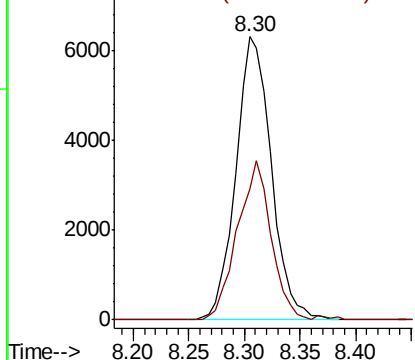


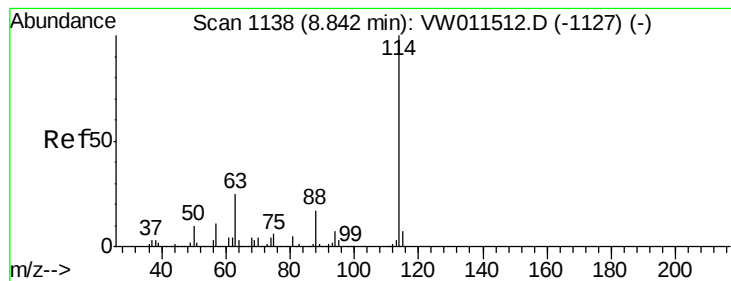
#33
1,2-Dichloroethane-d4
Concen: 54.361 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW012067.D
Acq: 21 Aug 2019 13:09

Tgt Ion: 65 Resp: 13950
Ion Ratio Lower Upper
65 100
67 53.3 0.0 105.2



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: VW012067.D

Acq: 21 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

T4-B4-(0)RE

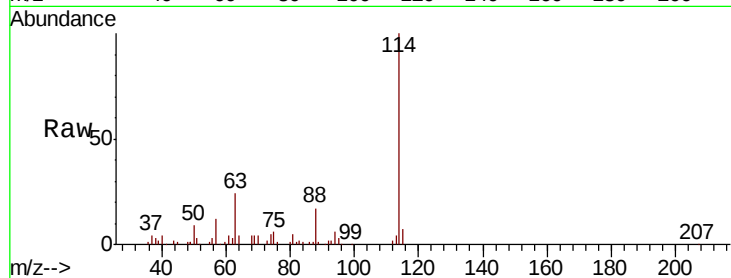
Tgt Ion:114 Resp: 32667

Ion Ratio Lower Upper

114 100

63 23.9 0.0 49.2

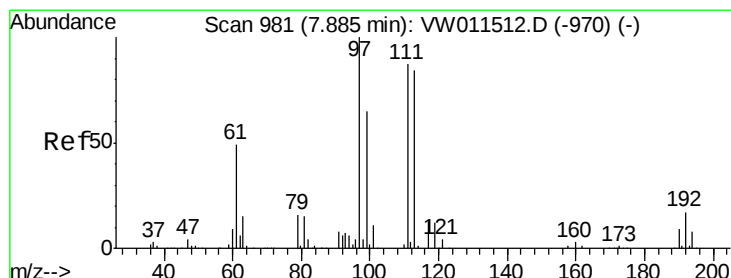
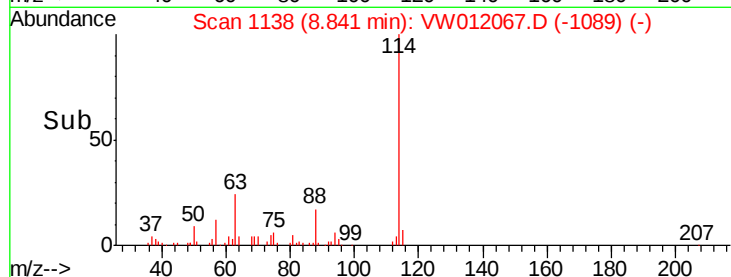
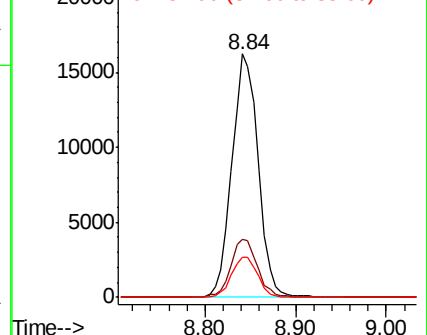
88 16.7 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 58.286 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW012067.D

Acq: 21 Aug 2019 13:09

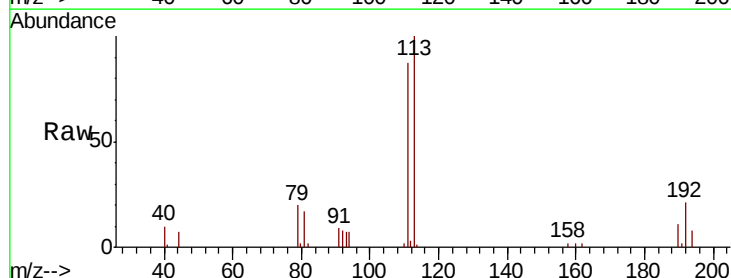
Tgt Ion:113 Resp: 10682

Ion Ratio Lower Upper

113 100

111 103.5 82.7 124.1

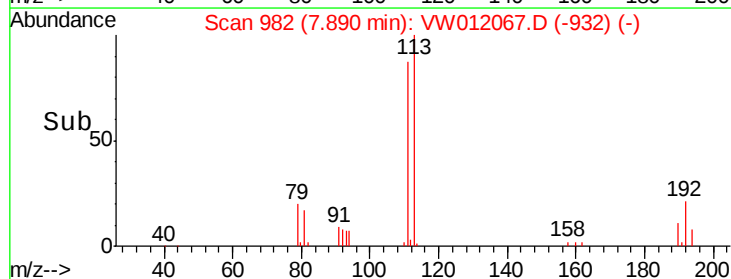
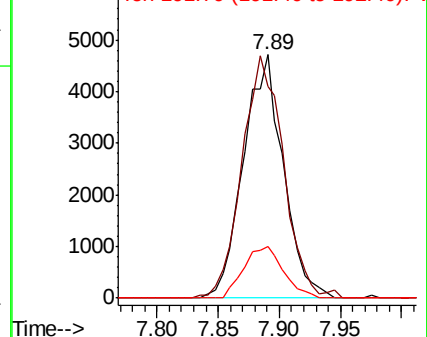
192 21.1 16.1 24.1

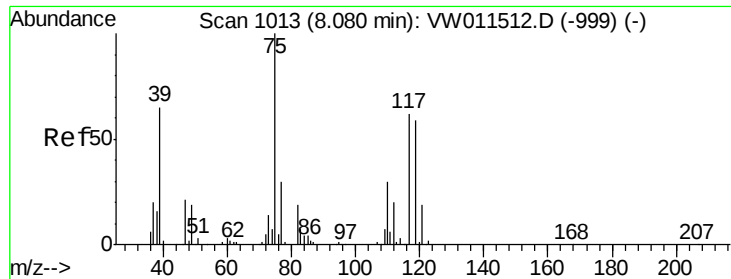


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

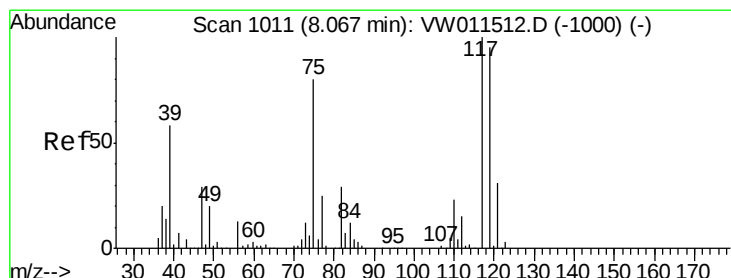
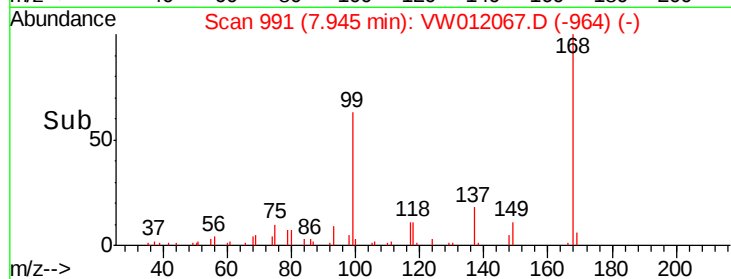
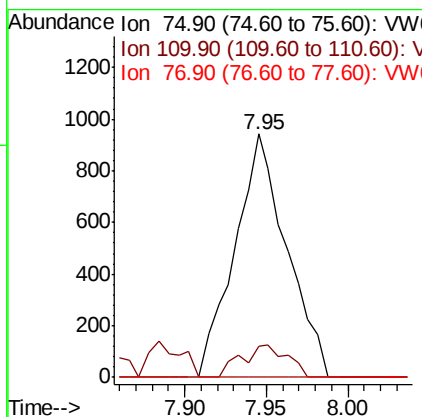
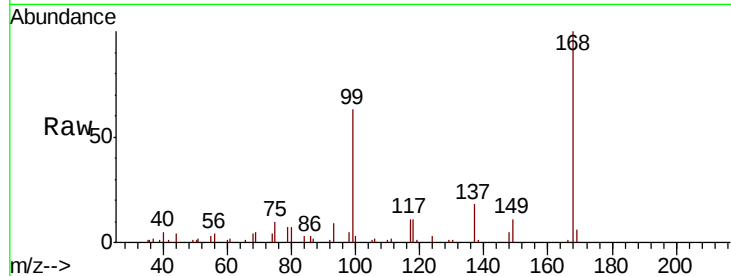




#36
 1,1-Dichloropropene
 Concen: 6.135 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012067.D
 Acq: 21 Aug 2019 13:09

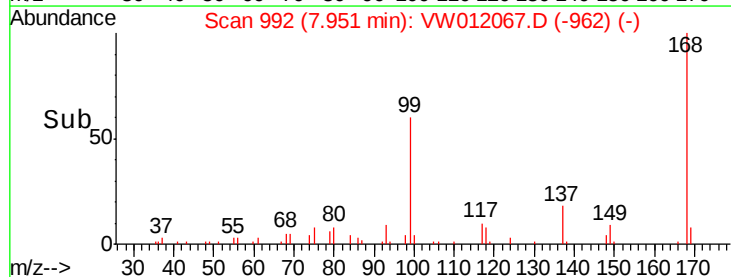
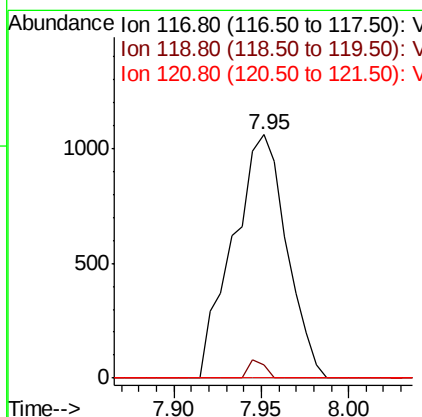
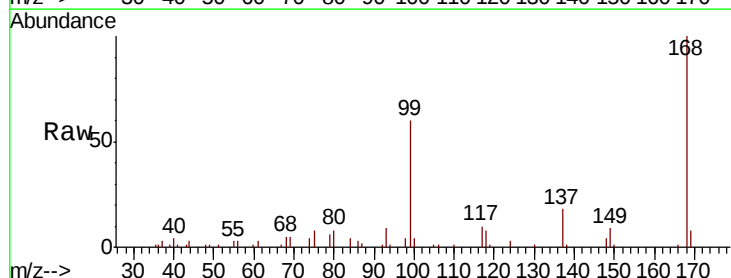
Instrument :
 MSVOA_W
 ClientSampleId :
 T4-B4-(0)RE

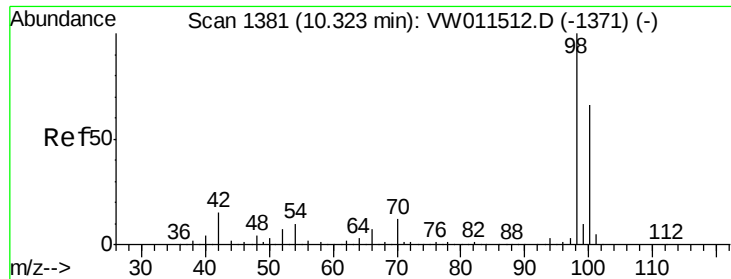
Tgt Ion: 75 Resp: 2084
 Ion Ratio Lower Upper
 75 100
 110 11.8 15.6 46.8#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 7.769 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW012067.D
 Acq: 21 Aug 2019 13:09

Tgt Ion: 117 Resp: 2259
 Ion Ratio Lower Upper
 117 100
 119 5.4 75.8 113.6#
 121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 46.417 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012067.D

Acq: 21 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

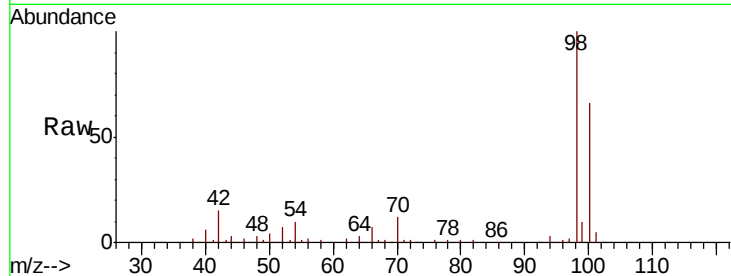
T4-B4-(0)RE

Tgt Ion: 98 Resp: 34829

Ion Ratio Lower Upper

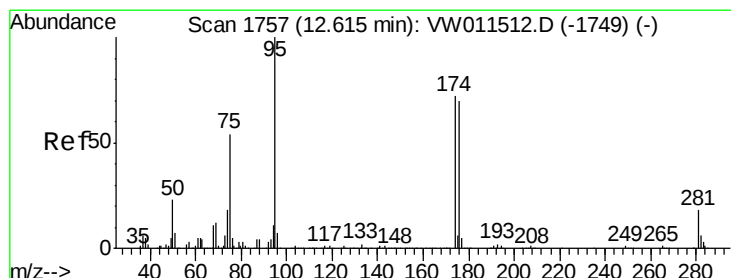
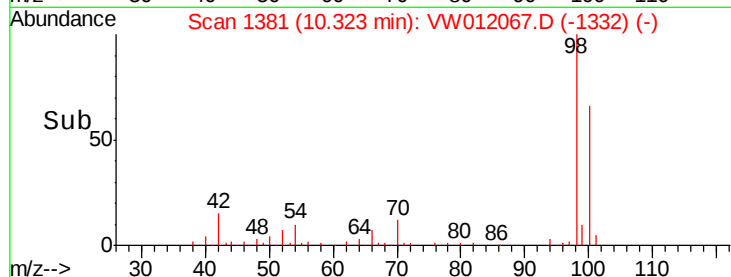
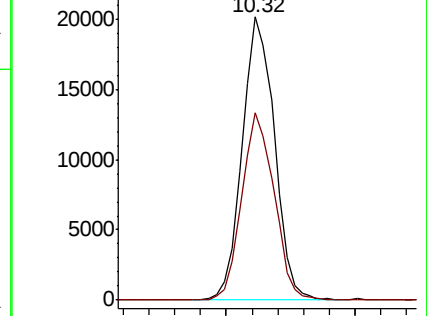
98 100

100 66.5 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 25.703 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012067.D

Acq: 21 Aug 2019 13:09

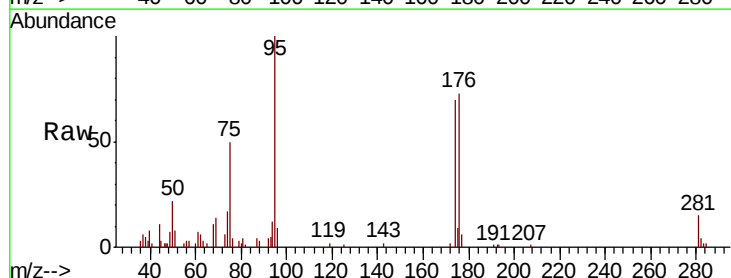
Tgt Ion: 95 Resp: 6876

Ion Ratio Lower Upper

95 100

174 74.1 0.0 150.2

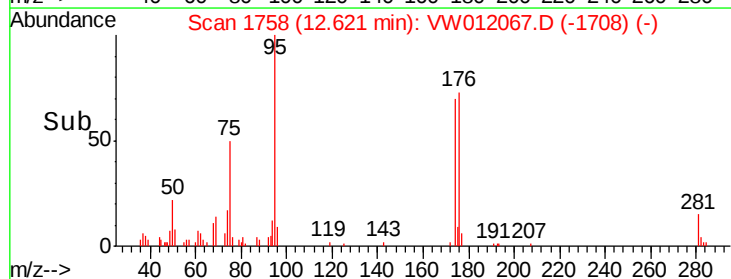
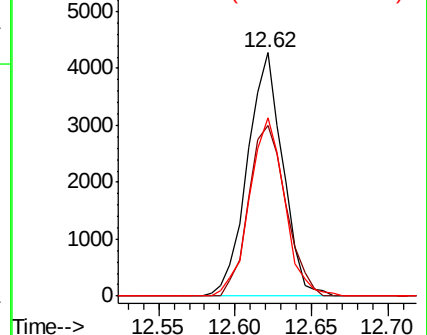
176 72.8 0.0 144.4

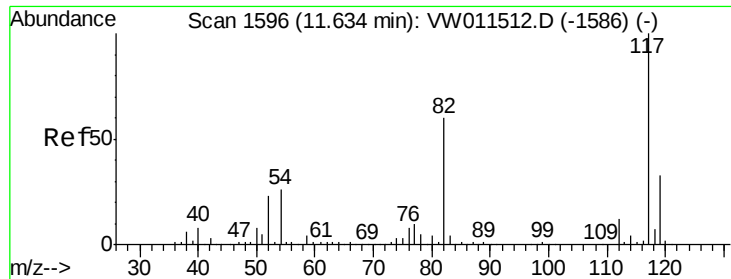


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

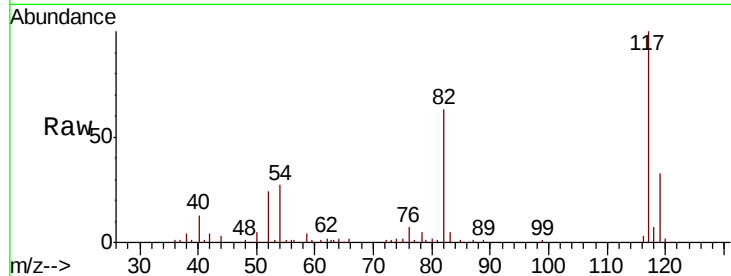




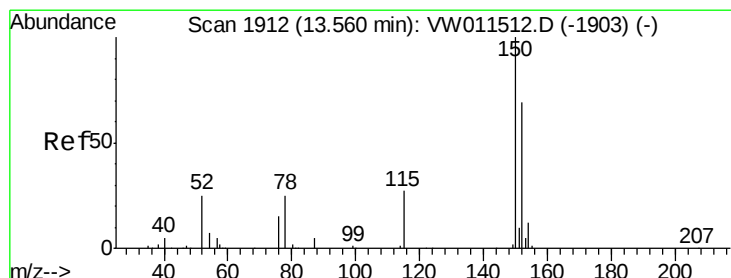
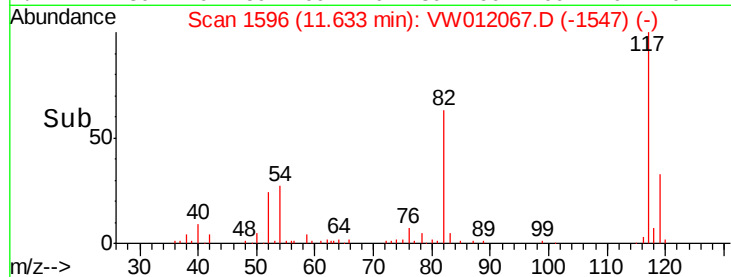
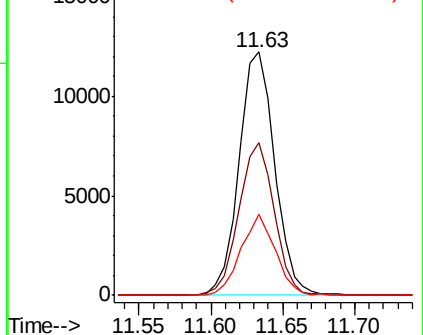
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012067.D
Acq: 21 Aug 2019 13:09

Instrument :
MSVOA_W
ClientSampleId :
T4-B4-(0)RE

Tgt Ion:117 Resp: 21006
Ion Ratio Lower Upper
117 100
82 62.9 47.9 71.9
119 33.1 26.2 39.2

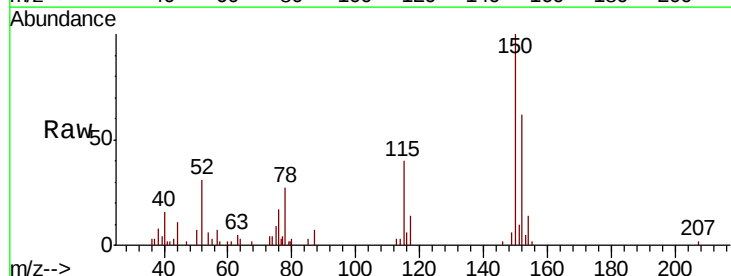


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

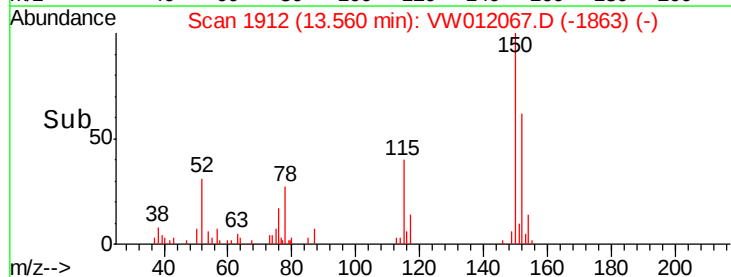
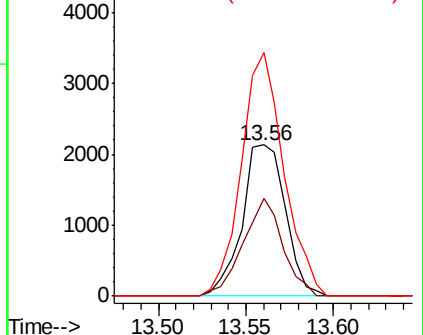


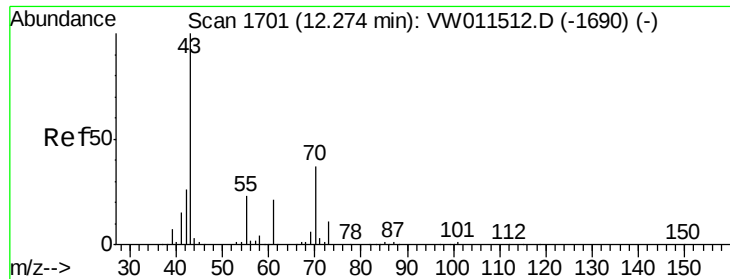
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012067.D
Acq: 21 Aug 2019 13:09

Tgt Ion:152 Resp: 3674
Ion Ratio Lower Upper
152 100
115 59.2 30.5 91.5
150 157.8 0.0 352.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 1.270 ug/l

RT: 12.26 min Scan# 1699

Delta R.T. -0.01 min

Lab File: VW012067.D

Acq: 21 Aug 2019 13:09

Instrument :

MSVOA_W

ClientSampled :

T4-B4-(0)RE

Tgt Ion: 43 Resp: 109

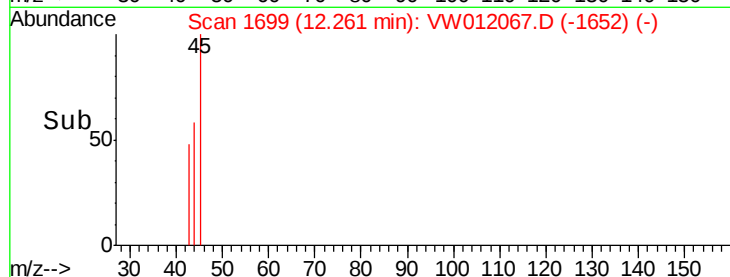
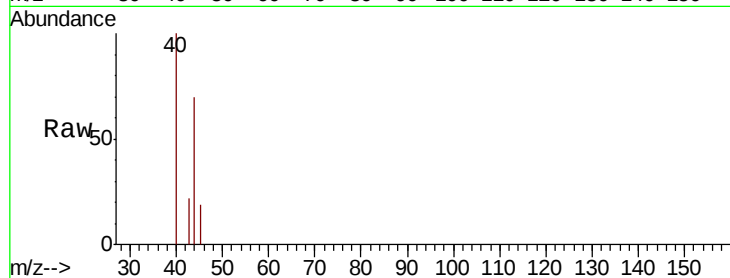
Ion Ratio Lower Upper

43 100

70 0.0 28.6 43.0#

55 0.0 17.8 26.8#

61 0.0 17.0 25.6#

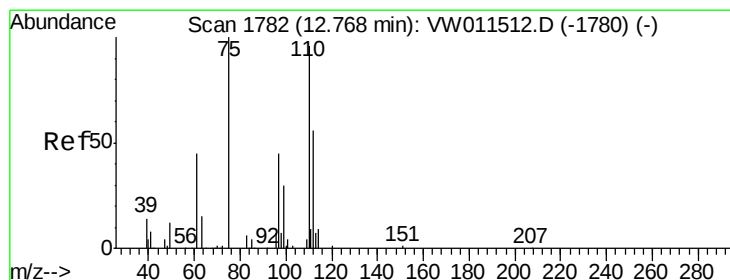
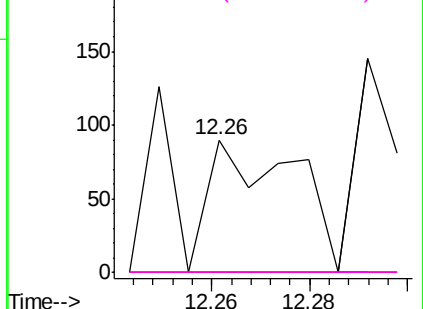


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 91.884 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012067.D

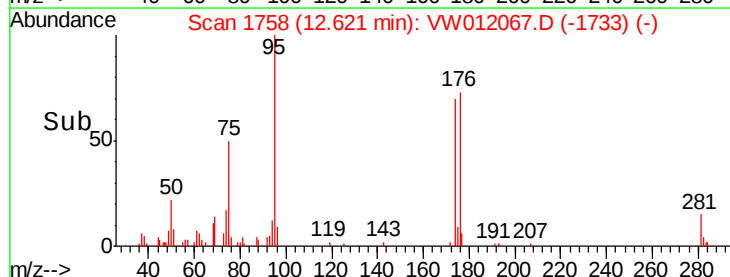
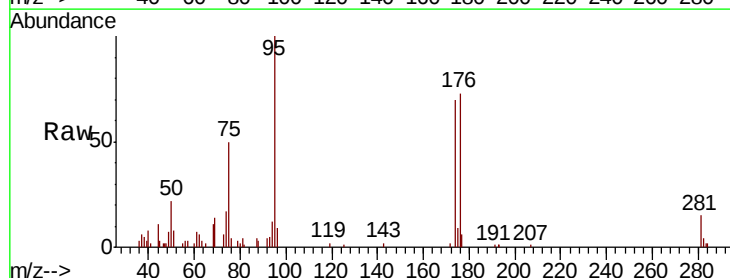
Acq: 21 Aug 2019 13:09

Tgt Ion: 75 Resp: 3572

Ion Ratio Lower Upper

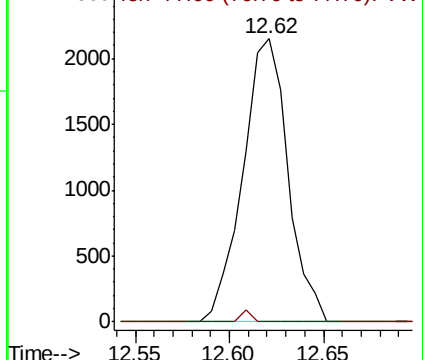
75 100

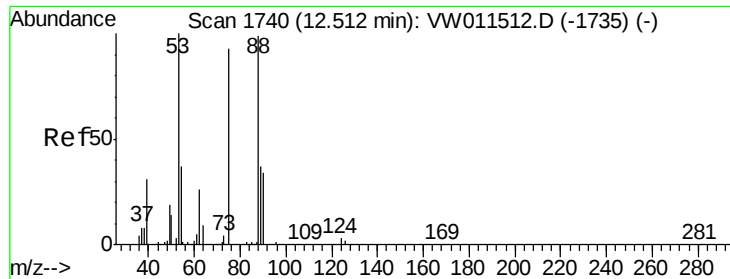
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

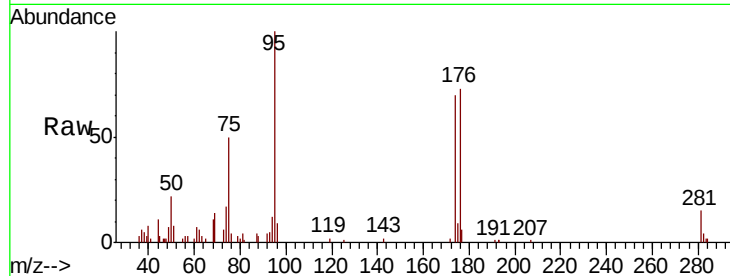




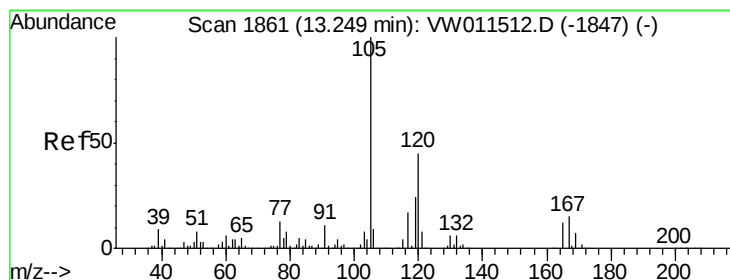
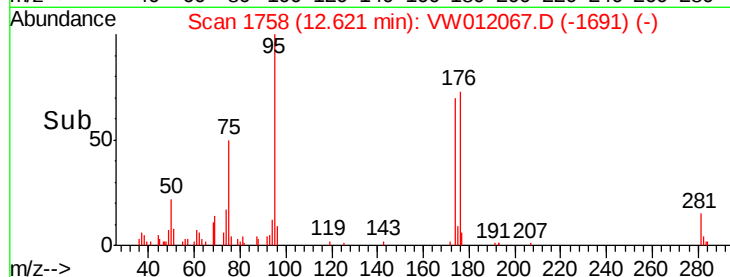
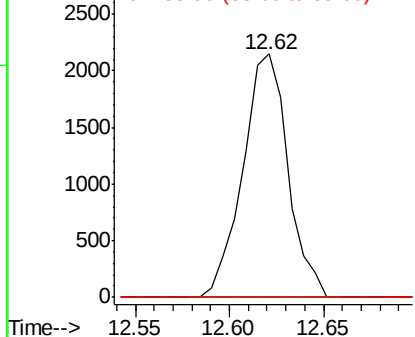
#81
trans-1,4-Dichloro-2-butene
Concen: 211.761 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW012067.D
Acq: 21 Aug 2019 13:09

Instrument :
MSVOA_W
ClientSampleId :
T4-B4-(0)RE

Tgt Ion: 75 Resp: 3572
Ion Ratio Lower Upper
75 100
53 0.0 88.0 132.0#
89 0.0 35.3 52.9#

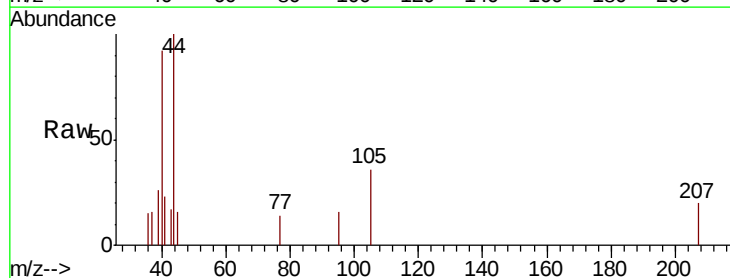


Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW

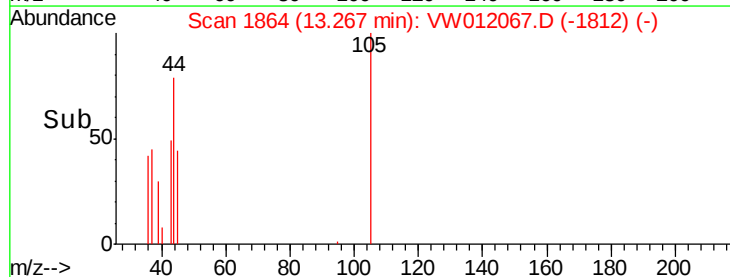
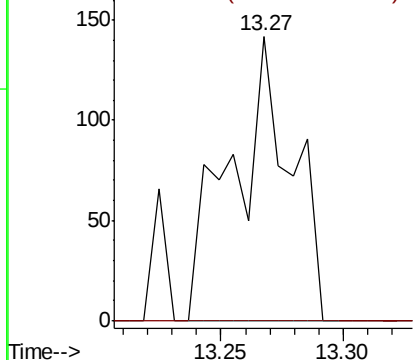


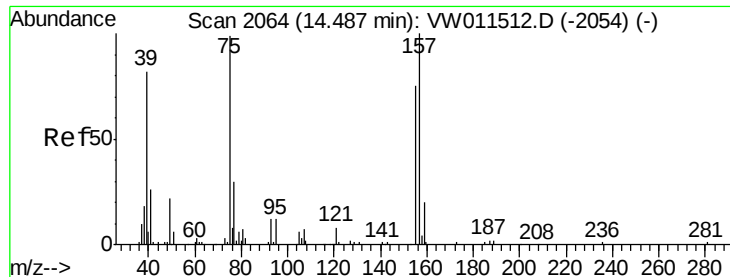
#84
1,2,4-Trimethylbenzene
Concen: 1.050 ug/l
RT: 13.27 min Scan# 1864
Delta R.T. 0.02 min
Lab File: VW012067.D
Acq: 21 Aug 2019 13:09

Tgt Ion: 105 Resp: 243
Ion Ratio Lower Upper
105 100
120 0.0 22.1 66.5#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

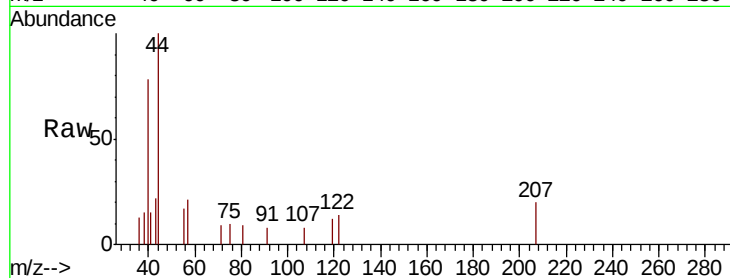




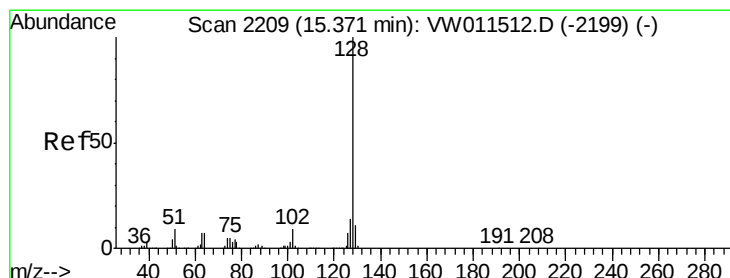
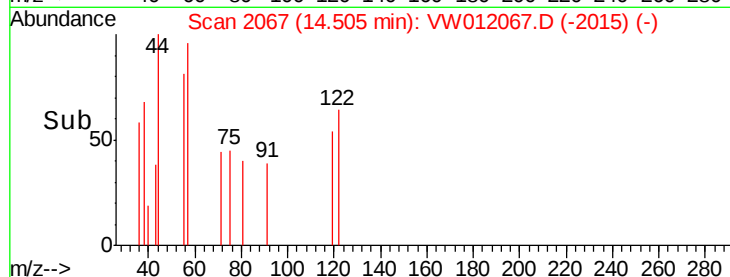
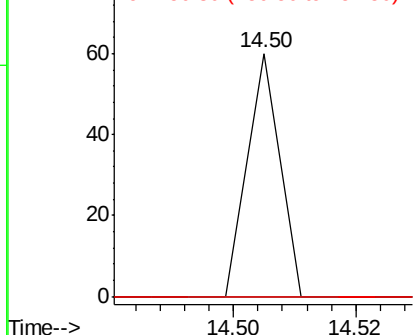
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.502 ug/l
 RT: 14.50 min Scan# 2067
 Delta R.T. 0.02 min
 Lab File: VW012067.D
 Acq: 21 Aug 2019 13:09

Instrument :
 MSVOA_W
 ClientSampleId :
 T4-B4-(0)RE

Tgt Ion: 75 Resp: 22
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.2 114.6#
 157 0.0 48.9 146.7#

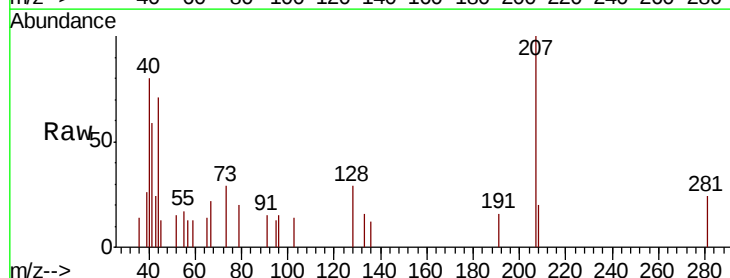


Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V



#95
 Naphthalene
 Concen: 3.077 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW012067.D
 Acq: 21 Aug 2019 13:09

Tgt Ion: 128 Resp: 153
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.6 13.0#



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

