

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080619\
 Data File : VW011721.D
 Acq On : 05 Aug 2019 20:24
 Operator : SY/VA
 Sample : K4154-05
 Misc : 4.40G/5ML/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 PS-5

Quant Time: Aug 06 08:06:25 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	79314	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	125166	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	104078	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	39687	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	52811	57.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.98%	
35) Dibromofluoromethane	7.88	113	39599	56.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.78%	
50) Toluene-d8	10.32	98	152470	53.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.06%	
62) 4-Bromofluorobenzene	12.62	95	47343	46.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.38%	

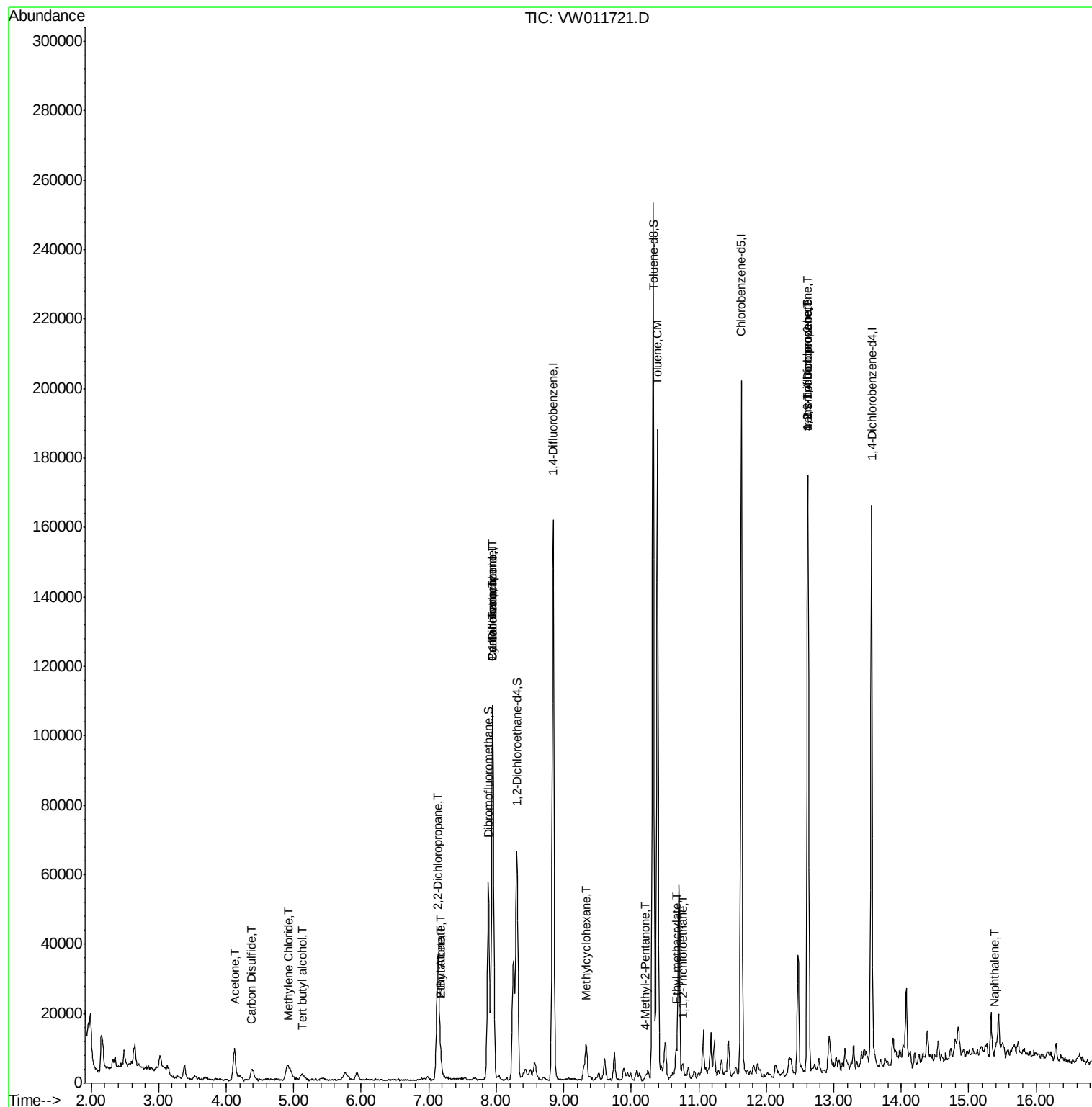
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.13	59	2157	15.356	ug/l #	72
16) Acetone	4.12	43	16517	57.013	ug/l	96
17) Carbon Disulfide	4.37	76	3729	1.442	ug/l	98
20) Methylene Chloride	4.91	84	2579	2.581	ug/l	90
25) 2-Butanone	7.18	43	9385	24.757	ug/l	98
26) 2,2-Dichloropropane	7.13	77	2448	2.244	ug/l #	54
31) Cyclohexane	7.95	56	2541	1.492	ug/l #	33
36) 1,1-Dichloropropene	7.95	75	7198	5.531	ug/l #	50
37) Ethyl Acetate	7.18	43	9385	12.534	ug/l #	73
38) Carbon Tetrachloride	7.95	117	7921	7.109	ug/l #	20
39) Methylcyclohexane	9.33	83	3771	2.631	ug/l #	90
51) 4-Methyl-2-Pentanone	10.21	43	1137	1.587	ug/l #	65
52) Toluene	10.38	92	77588	35.242	ug/l	99
55) 1,1,2-Trichloroethane	10.77	97	1147	1.816	ug/l #	27
56) Ethyl methacrylate	10.66	69	1103	1.193	ug/l #	21
76) 1,2,3-Trichloropropane	12.62	75	26098	62.148	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	26098	143.229	ug/l #	7
95) Naphthalene	15.38	128	203	2.190	ug/l #	69

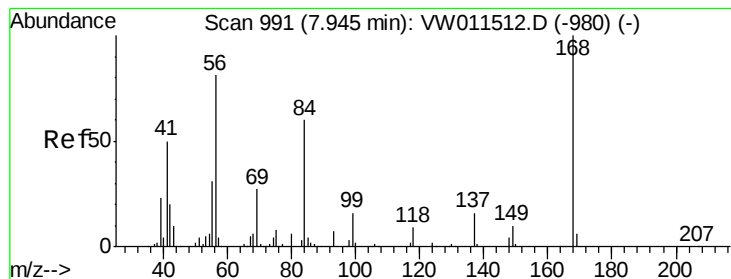
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW011721.D

Acq: 05 Aug 2019 20:24

Instrument :

MSVOA_W

ClientSampleId :

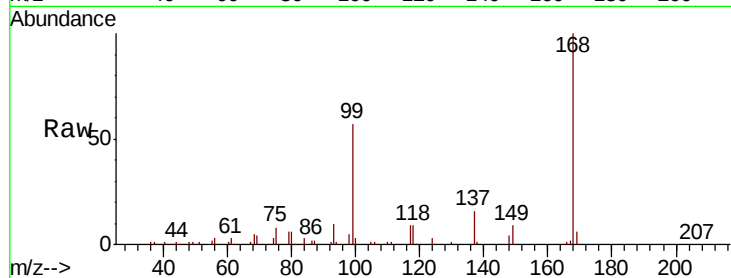
PS-5

Tgt Ion:168 Resp: 79314

Ion Ratio Lower Upper

168 100

99 56.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

20000

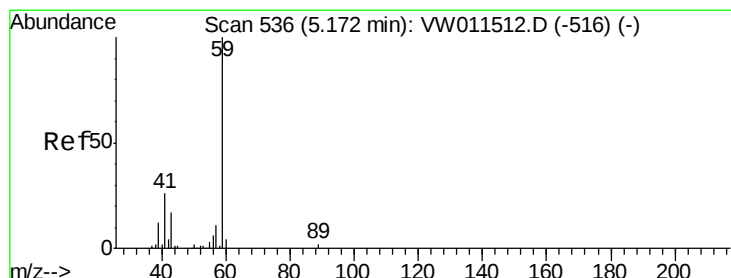
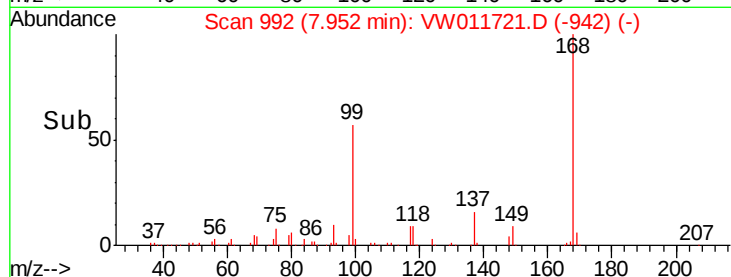
10000

0

7.90

8.00

Time-->



#11

Tert butyl alcohol

Concen: 15.356 ug/l

RT: 5.13 min Scan# 530

Delta R.T. -0.04 min

Lab File: VW011721.D

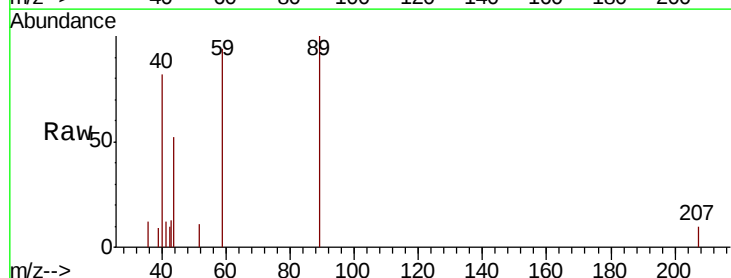
Acq: 05 Aug 2019 20:24

Tgt Ion: 59 Resp: 2157

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

600

500

400

300

200

100

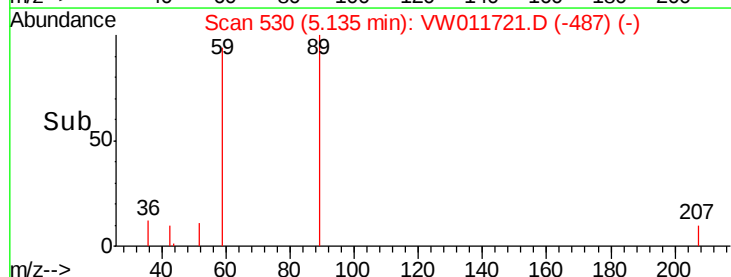
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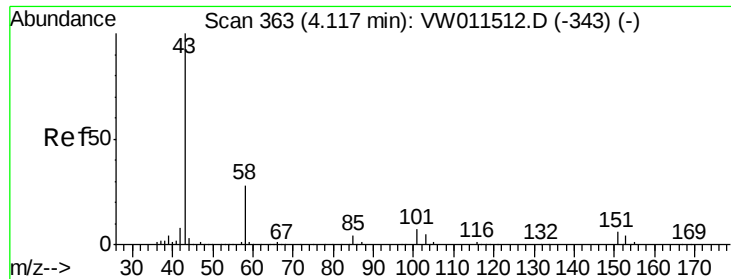
5.00

5.10

5.20

Time-->





#16

Acetone

Concen: 57.013 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011721.D

Acq: 05 Aug 2019 20:24

Instrument :

MSVOA_W

ClientSampled :

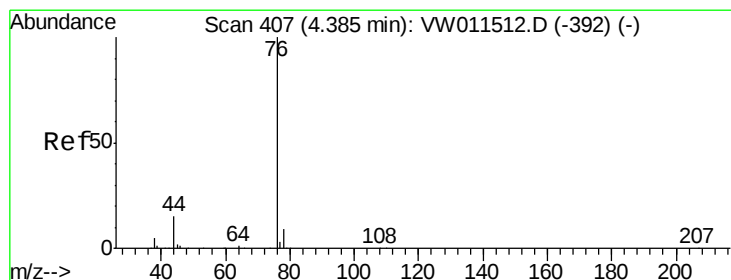
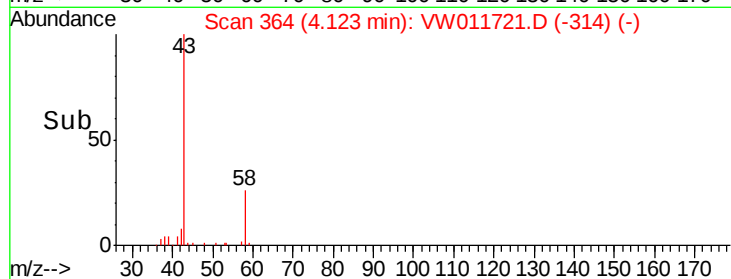
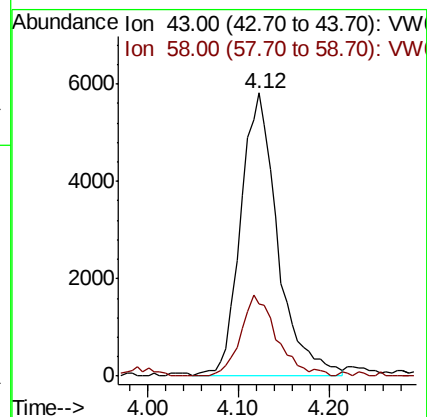
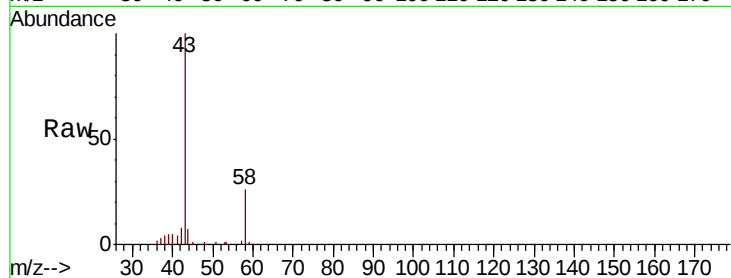
PS-5

Tgt Ion: 43 Resp: 16517

Ion Ratio Lower Upper

43 100

58 25.7 22.3 33.5



#17

Carbon Disulfide

Concen: 1.442 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW011721.D

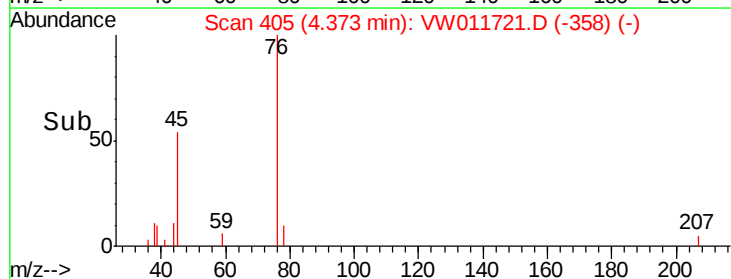
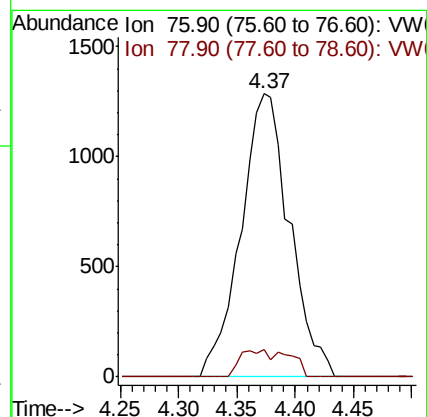
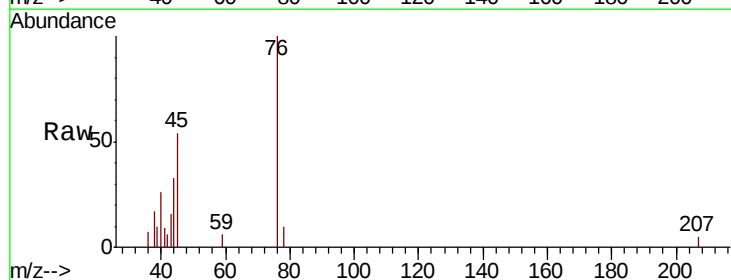
Acq: 05 Aug 2019 20:24

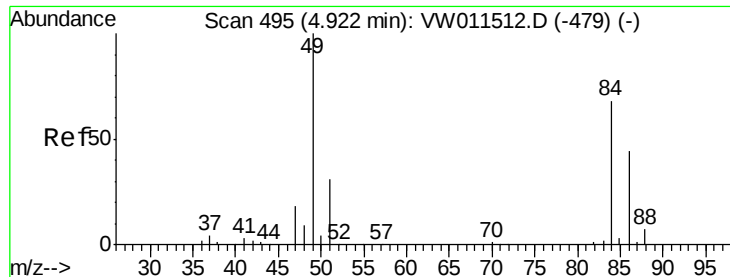
Tgt Ion: 76 Resp: 3729

Ion Ratio Lower Upper

76 100

78 9.6 7.1 10.7

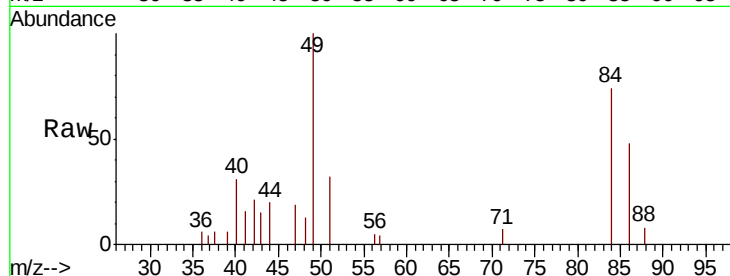




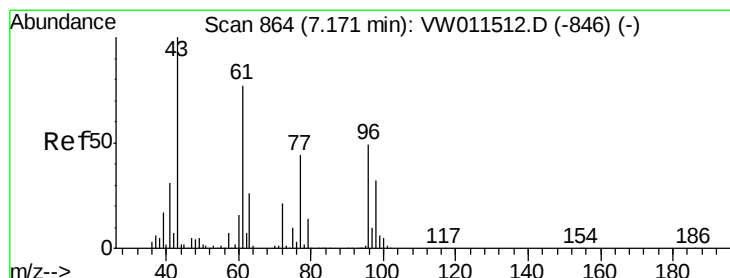
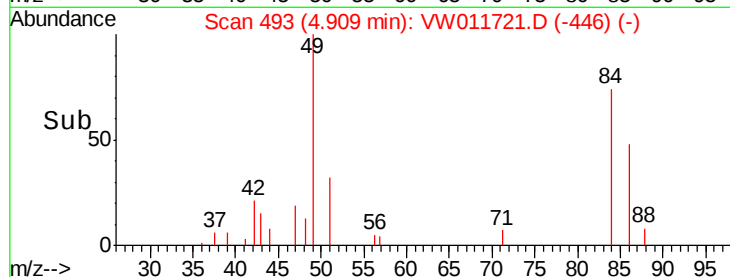
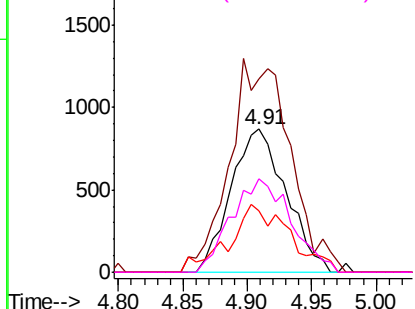
#20
Methylene Chloride
Concen: 2.581 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011721.D
Acq: 05 Aug 2019 20:24

Instrument :
MSVOA_W
ClientSampleId :
PS-5

Tgt Ion: 84 Resp: 2579
Ion Ratio Lower Upper
84 100
49 128.4 117.8 176.6
51 42.9 37.0 55.4
86 65.1 51.8 77.8

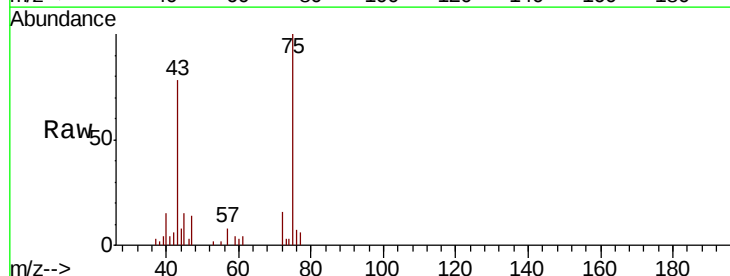


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

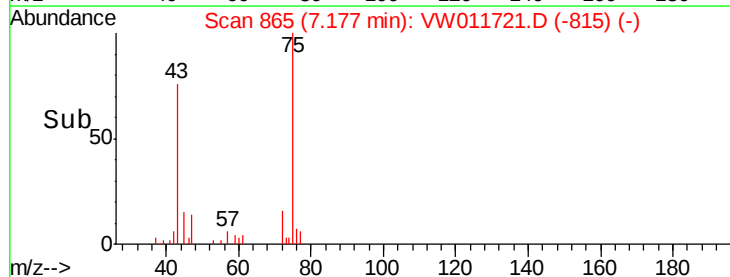
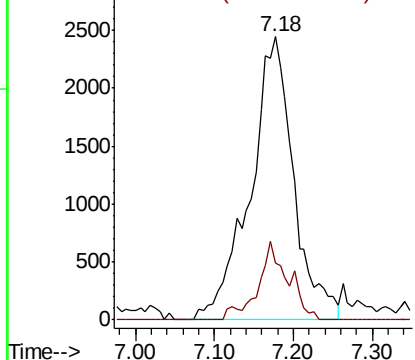


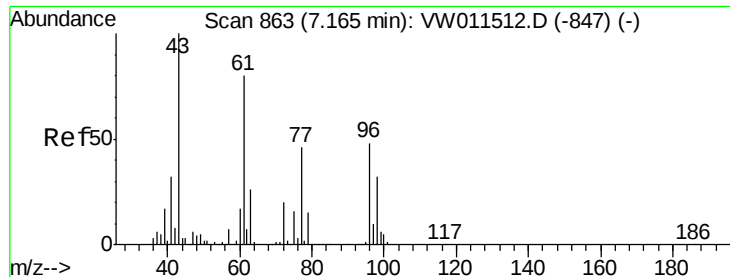
#25
2-Butanone
Concen: 24.757 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW011721.D
Acq: 05 Aug 2019 20:24

Tgt Ion: 43 Resp: 9385
Ion Ratio Lower Upper
43 100
72 20.0 16.6 24.8



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 2.244 ug/l

RT: 7.13 min Scan# 857

Delta R.T. -0.04 min

Lab File: VW011721.D

Acq: 05 Aug 2019 20:24

Instrument :

MSVOA_W

ClientSampleId :

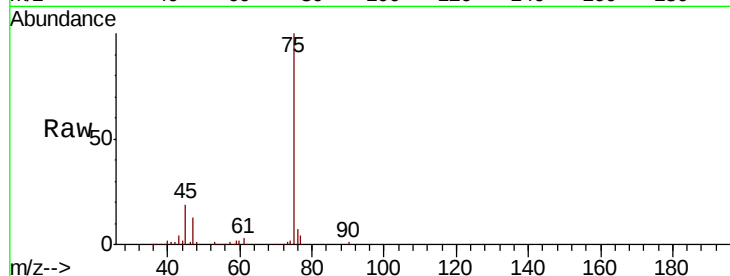
PS-5

Tgt Ion: 77 Resp: 2448

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.13

800

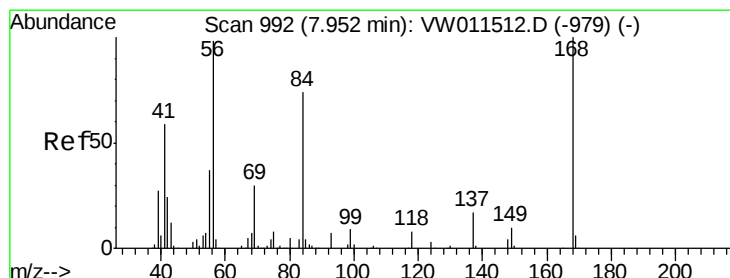
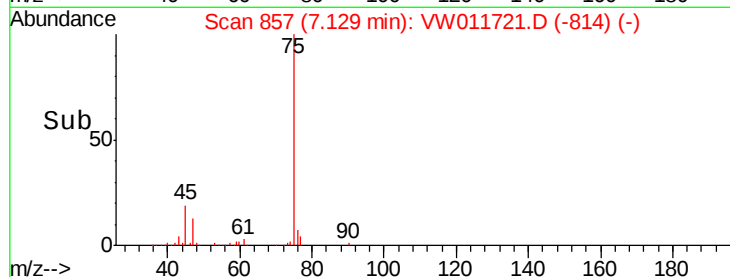
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 1.492 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011721.D

Acq: 05 Aug 2019 20:24

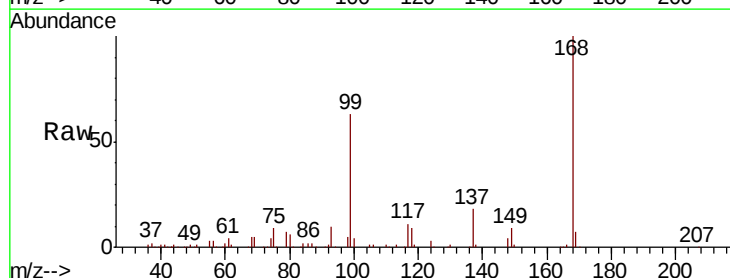
Tgt Ion: 56 Resp: 2541

Ion Ratio Lower Upper

56 100

69 150.2 24.3 36.5#

84 80.5 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

2000

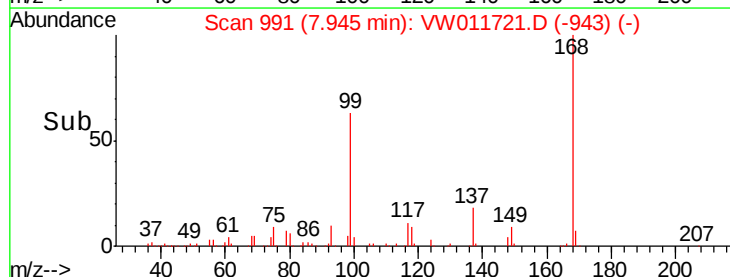
1500

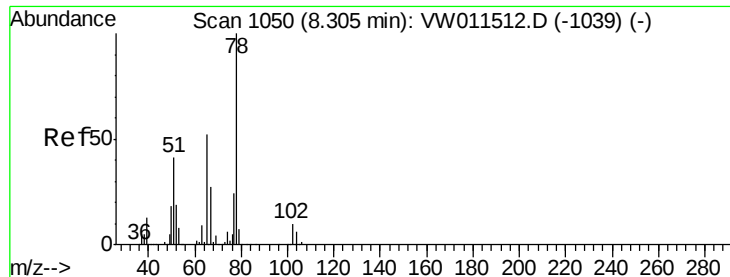
1000

500

0

Time-->

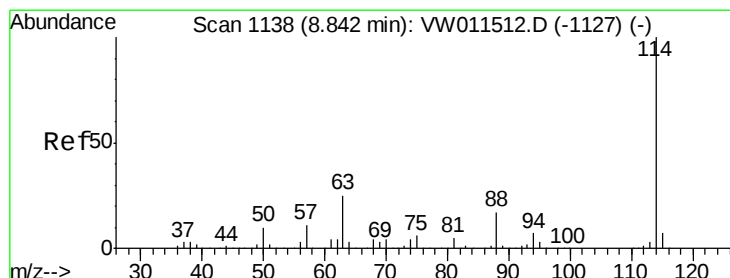
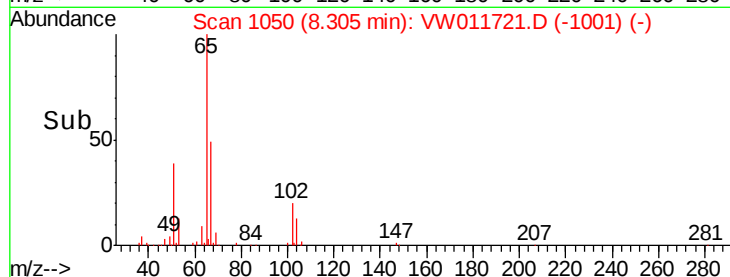
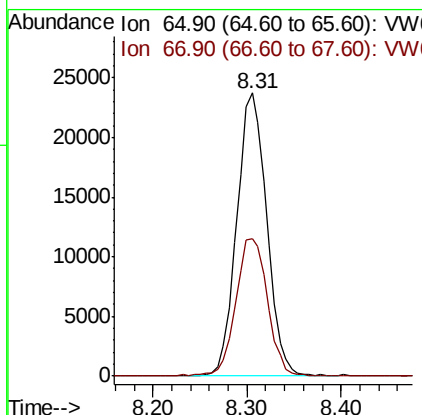
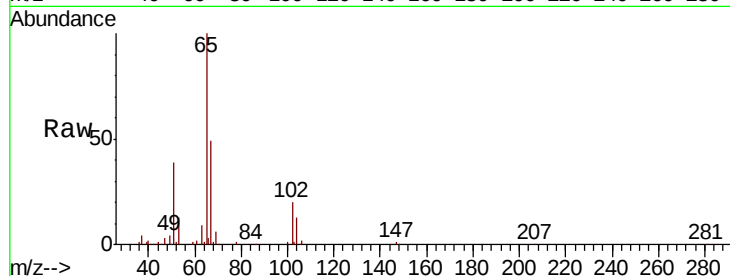




#33
 1,2-Dichloroethane-d4
 Concen: 57.987 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW011721.D
 Acq: 05 Aug 2019 20:24

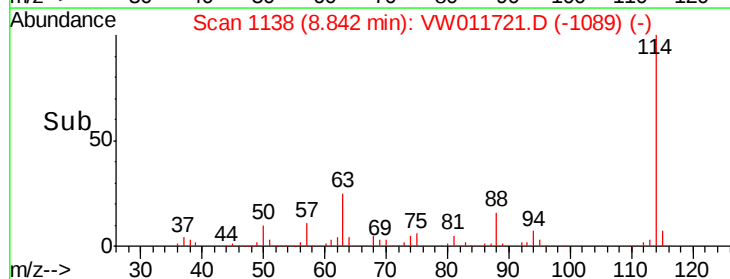
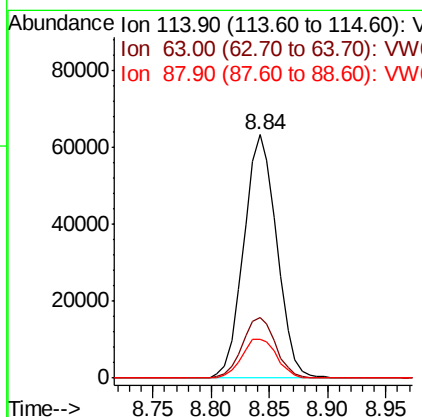
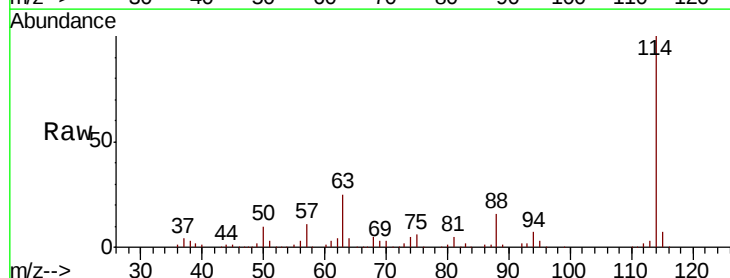
Instrument :
 MSVOA_W
 ClientSampled :
 PS-5

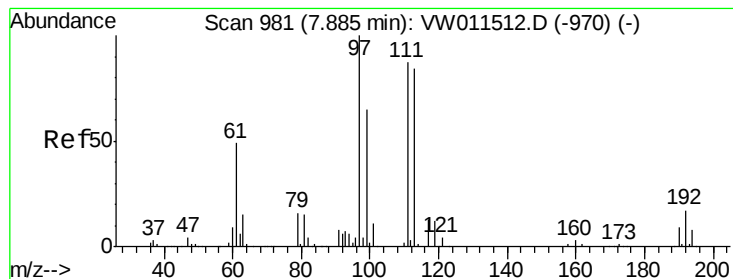
Tgt Ion: 65 Resp: 52811
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011721.D
 Acq: 05 Aug 2019 20:24

Tgt Ion: 114 Resp: 125166
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 49.2
 88 15.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 56.392 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011721.D

Acq: 05 Aug 2019 20:24

Instrument :

MSVOA_W

ClientSampleId :

PS-5

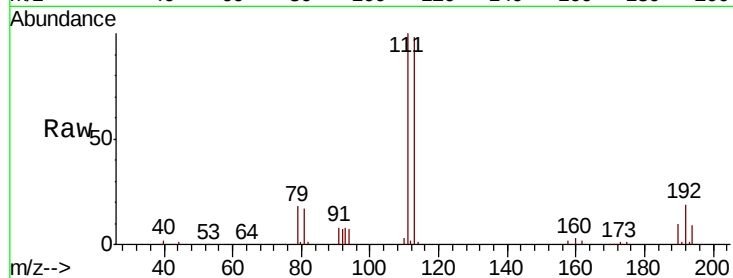
Tgt Ion:113 Resp: 39599

Ion Ratio Lower Upper

113 100

111 104.3 82.7 124.1

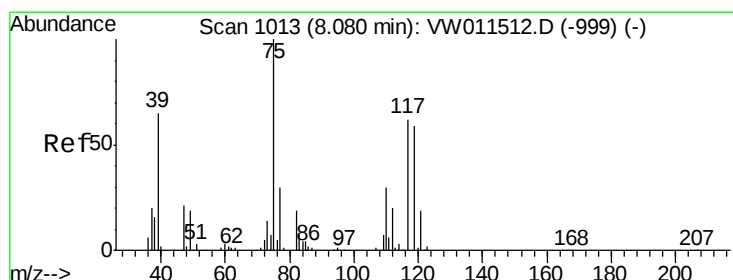
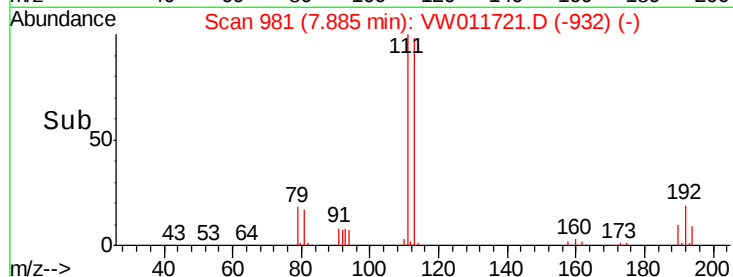
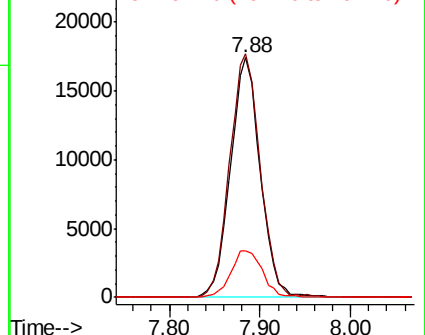
192 20.5 16.1 24.1



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: 5.531 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011721.D

Acq: 05 Aug 2019 20:24

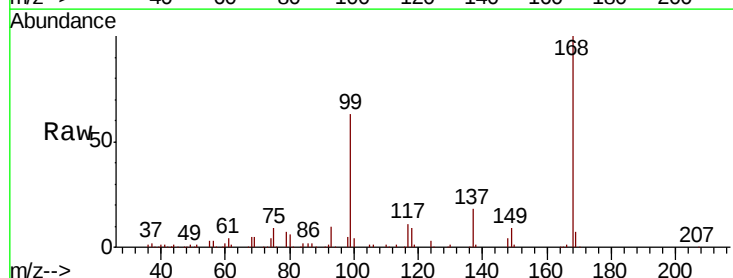
Tgt Ion: 75 Resp: 7198

Ion Ratio Lower Upper

75 100

110 7.0 15.6 46.8#

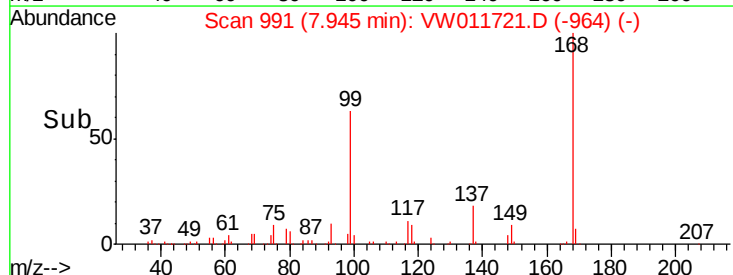
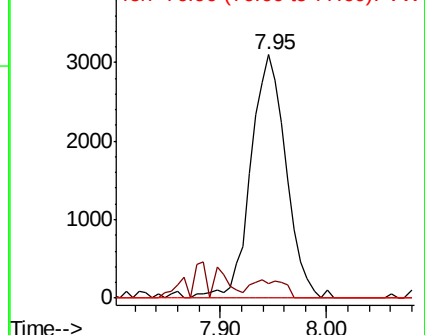
77 0.0 24.3 36.5#

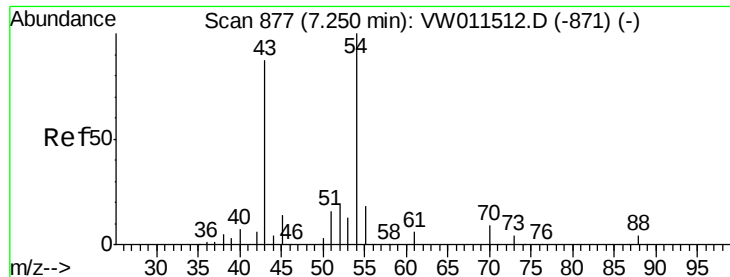


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

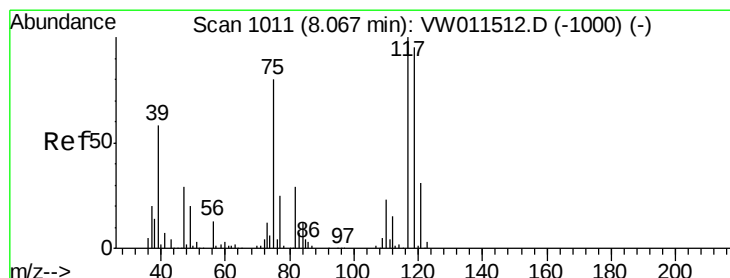
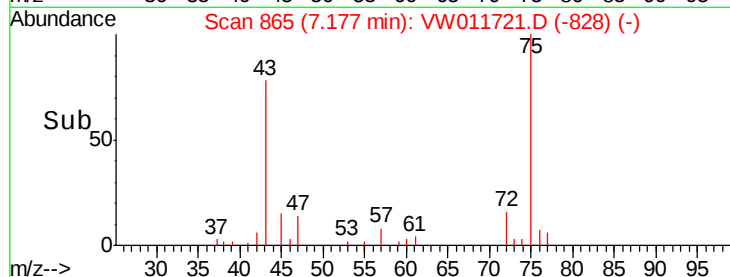
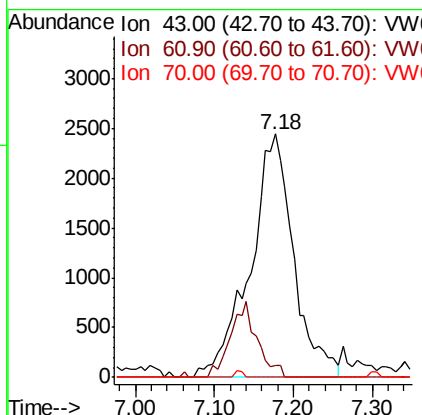
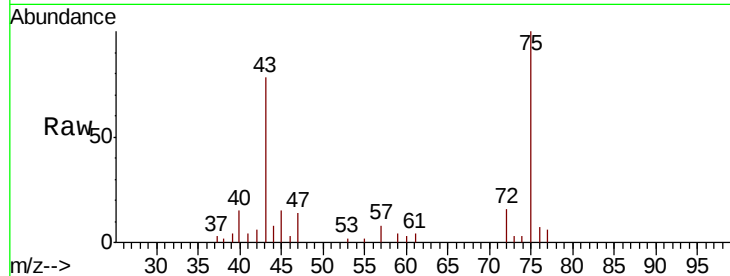




#37
Ethyl Acetate
Concen: 12.534 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.07 min
Lab File: VW011721.D
Acq: 05 Aug 2019 20:24

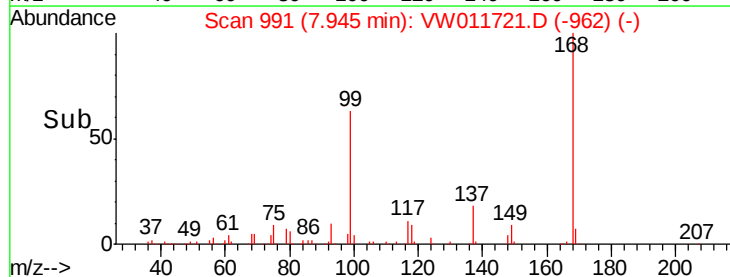
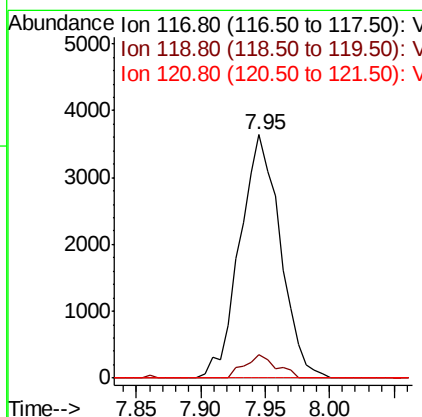
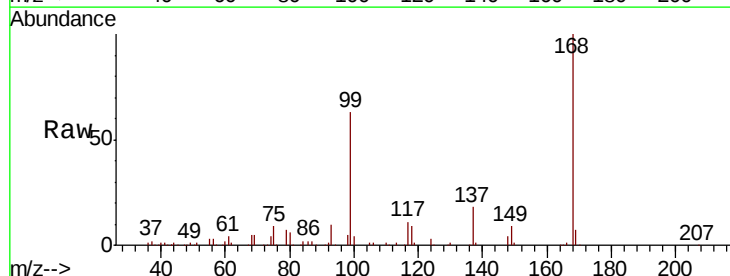
Instrument :
MSVOA_W
ClientSampled :
PS-5

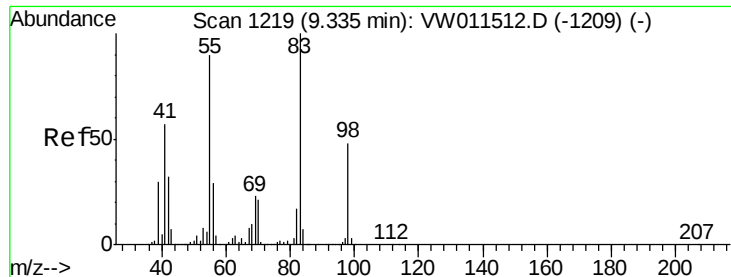
Tgt Ion: 43 Resp: 9385
Ion Ratio Lower Upper
43 100
61 0.0 8.8 13.2#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 7.109 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW011721.D
Acq: 05 Aug 2019 20:24

Tgt Ion: 117 Resp: 7921
Ion Ratio Lower Upper
117 100
119 9.7 75.8 113.6#
121 0.0 24.7 37.1#

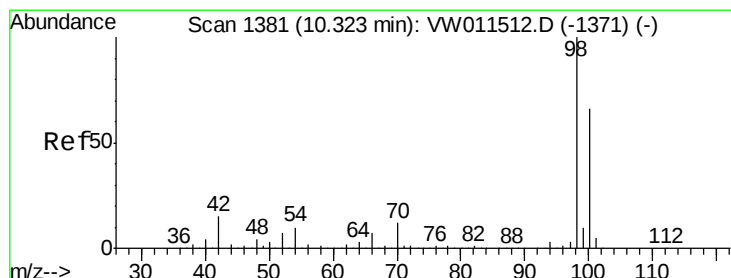
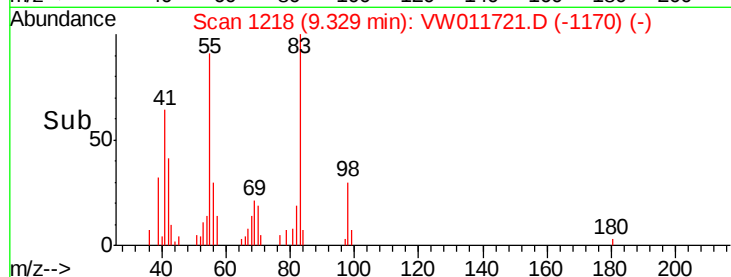
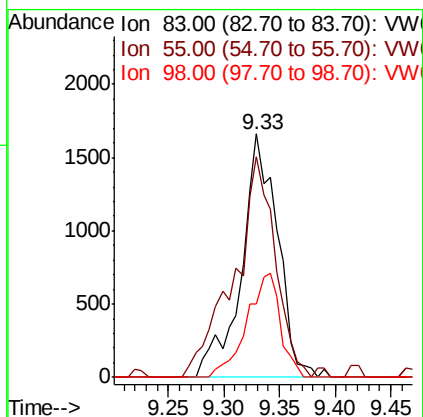
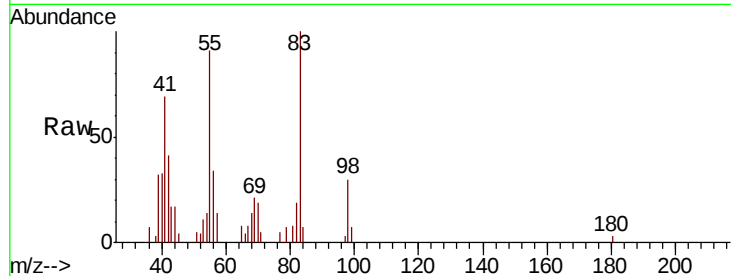




#39
Methylcyclohexane
Concen: 2.631 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW011721.D
Acq: 05 Aug 2019 20:24

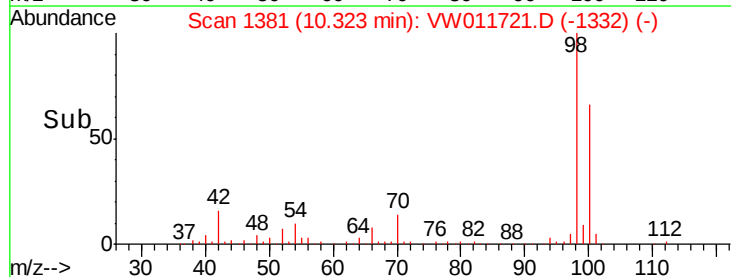
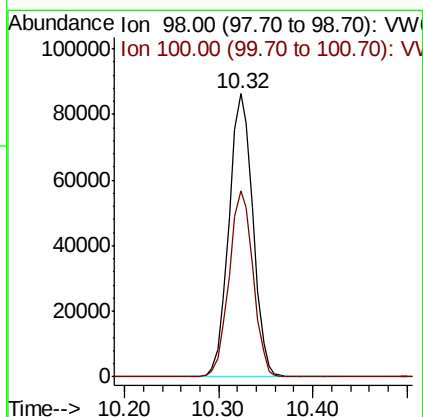
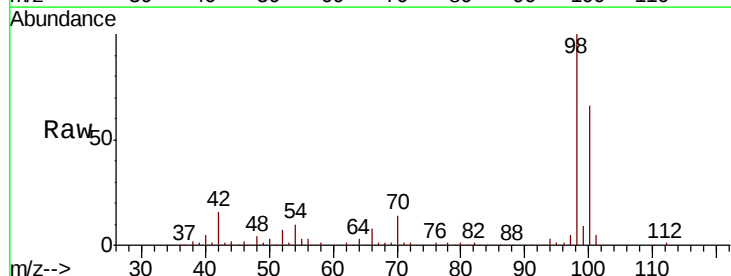
Instrument :
MSVOA_W
ClientSampleId :
PS-5

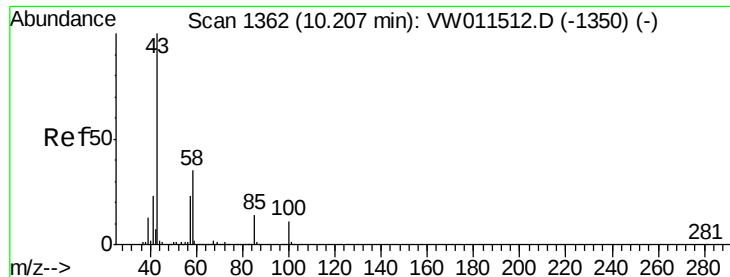
Tgt Ion: 83 Resp: 3771
Ion Ratio Lower Upper
83 100
55 90.6 72.1 108.1
98 30.2 38.6 57.8#



#50
Toluene-d8
Concen: 53.033 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW011721.D
Acq: 05 Aug 2019 20:24

Tgt Ion: 98 Resp: 152470
Ion Ratio Lower Upper
98 100
100 65.8 52.7 79.1

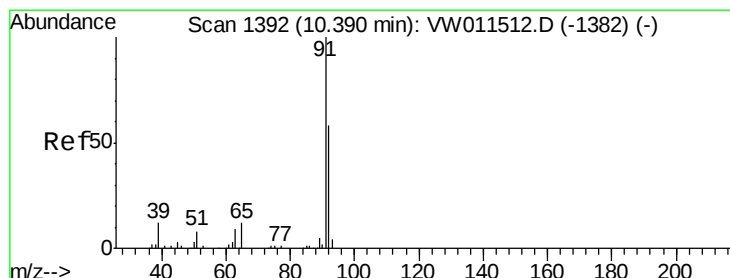
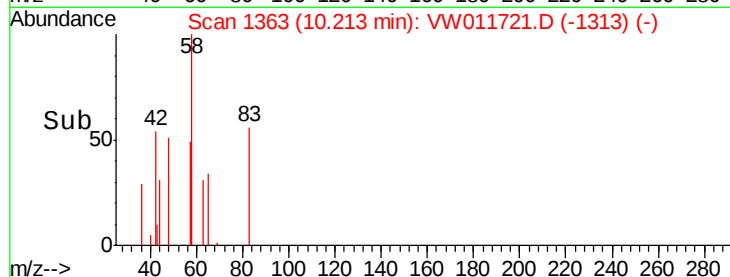
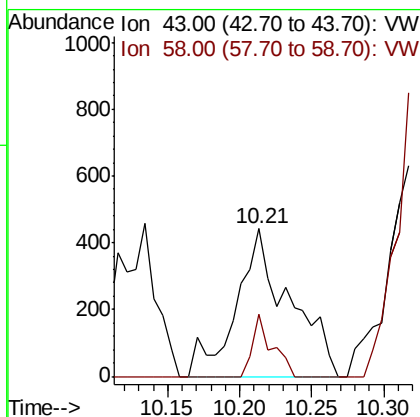
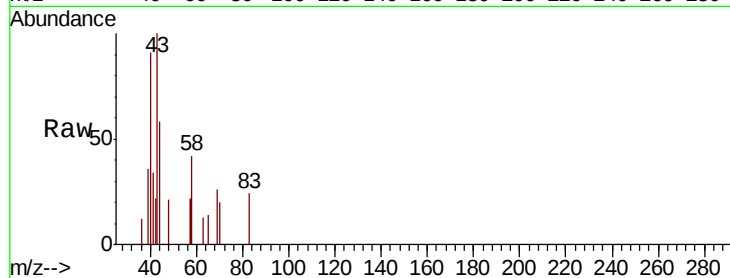




#51
 4-Methyl-2-Pentanone
 Concen: 1.587 ug/l
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VW011721.D
 Acq: 05 Aug 2019 20:24

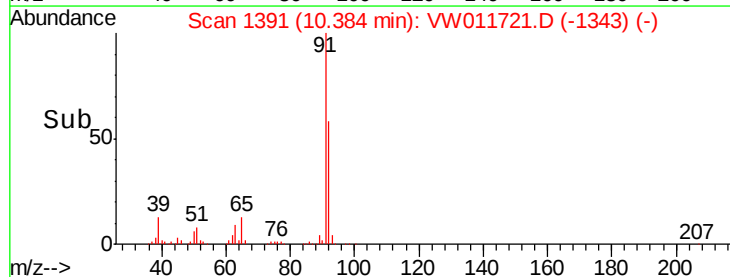
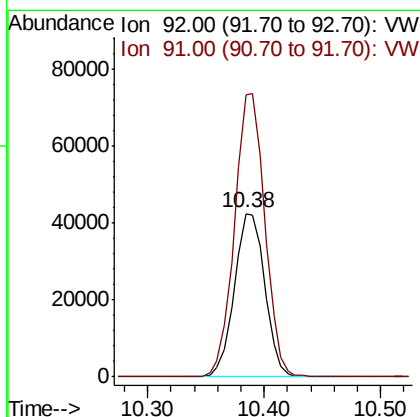
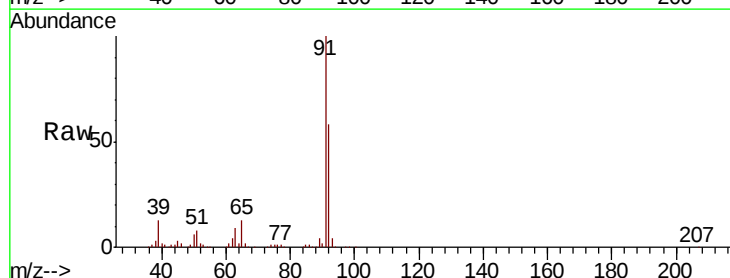
Instrument :
 MSVOA_W
 ClientSampled :
 PS-5

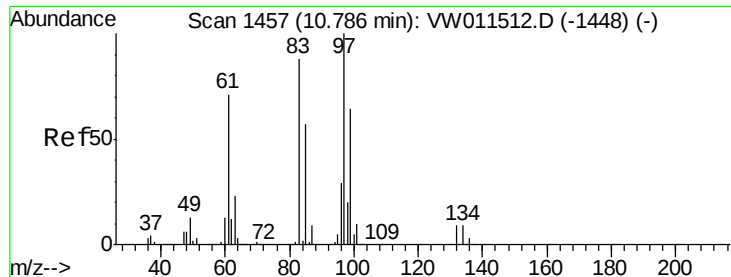
Tgt Ion: 43 Resp: 1137
 Ion Ratio Lower Upper
 43 100
 58 15.0 28.2 42.2#



#52
 Toluene
 Concen: 35.242 ug/l
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: VW011721.D
 Acq: 05 Aug 2019 20:24

Tgt Ion: 92 Resp: 77588
 Ion Ratio Lower Upper
 92 100
 91 172.4 136.7 205.1

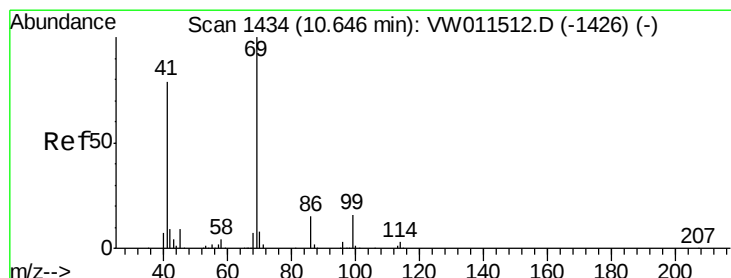
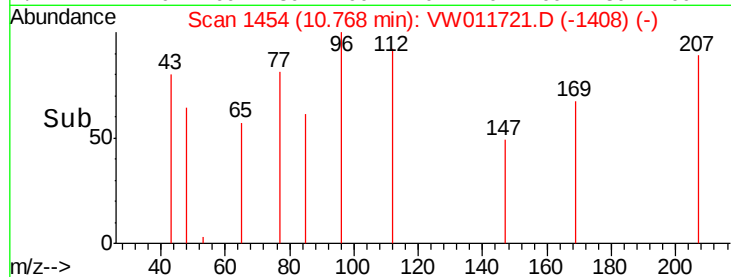
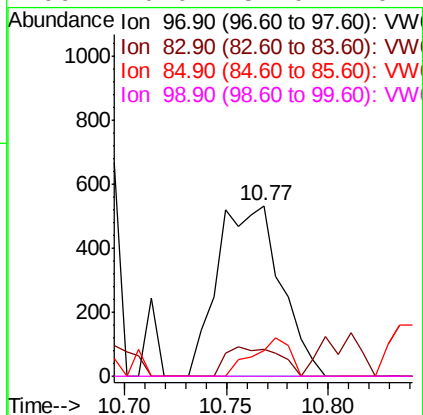
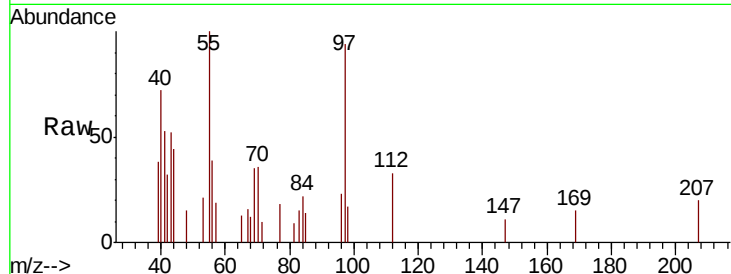




#55
 1,1,2-Trichloroethane
 Concen: 1.816 ug/l
 RT: 10.77 min Scan# 1454
 Delta R.T. -0.02 min
 Lab File: VW011721.D
 Acq: 05 Aug 2019 20:24

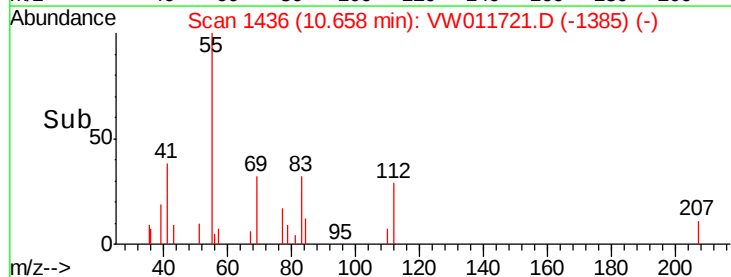
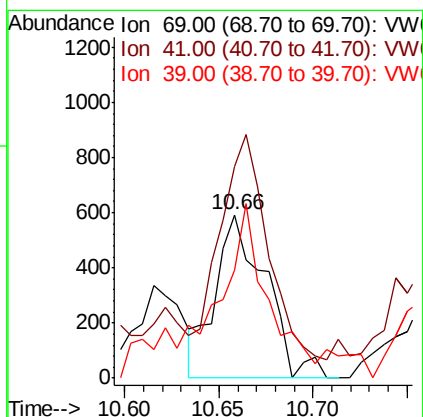
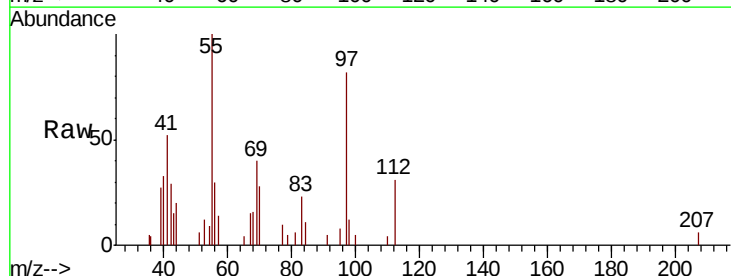
Instrument :
 MSVOA_W
 ClientSampled :
 PS-5

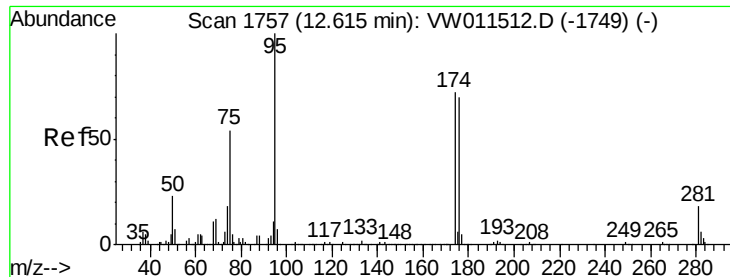
Tgt Ion: 97 Resp: 1147
 Ion Ratio Lower Upper
 97 100
 83 16.0 70.5 105.7#
 85 14.8 45.8 68.6#
 99 0.0 51.0 76.4#



#56
 Ethyl methacrylate
 Concen: 1.193 ug/l
 RT: 10.66 min Scan# 1436
 Delta R.T. 0.01 min
 Lab File: VW011721.D
 Acq: 05 Aug 2019 20:24

Tgt Ion: 69 Resp: 1103
 Ion Ratio Lower Upper
 69 100
 41 129.1 66.6 99.8#
 39 123.1 30.3 45.5#





#62

4-Bromofluorobenzene

Concen: 46.188 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW011721.D

Acq: 05 Aug 2019 20:24

Instrument :

MSVOA_W

ClientSampleId :

PS-5

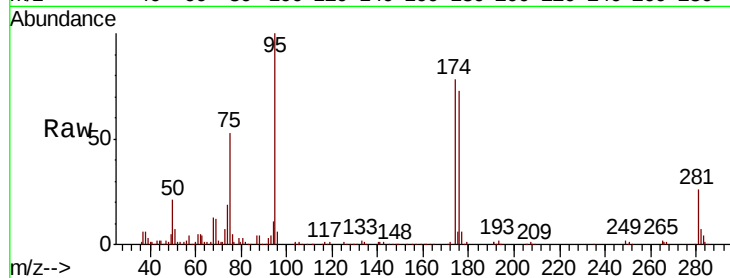
Tgt Ion: 95 Resp: 47343

Ion Ratio Lower Upper

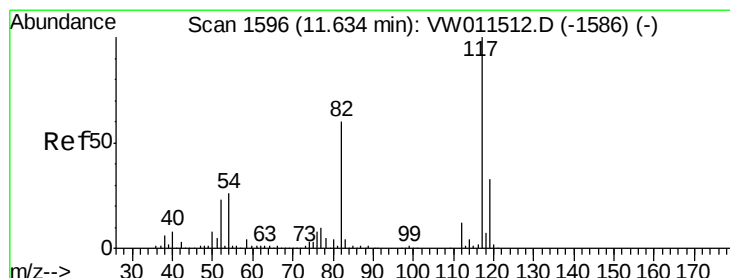
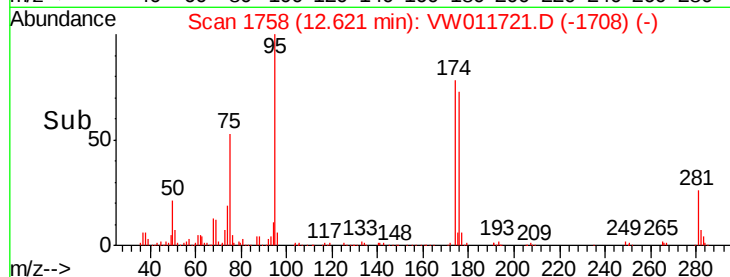
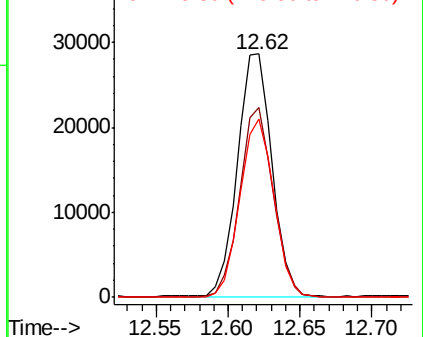
95 100

174 76.3 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): VW
Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW011721.D

Acq: 05 Aug 2019 20:24

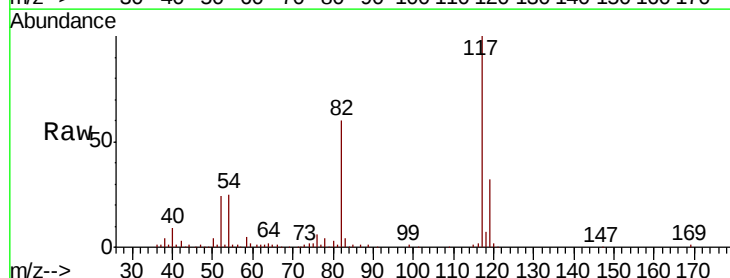
Tgt Ion: 117 Resp: 104078

Ion Ratio Lower Upper

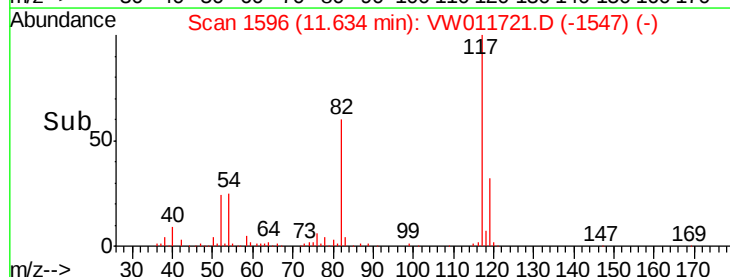
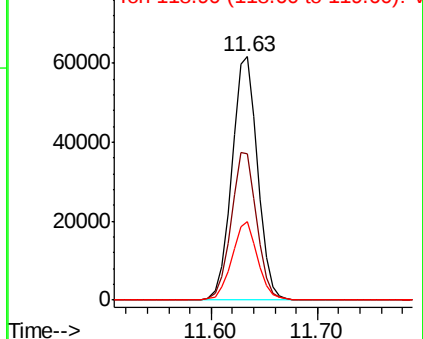
117 100

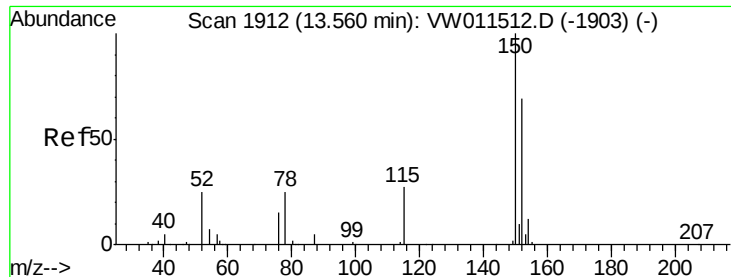
82 60.1 47.9 71.9

119 31.8 26.2 39.2



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011721.D

Acq: 05 Aug 2019 20:24

Instrument :

MSVOA_W

ClientSampleId :

PS-5

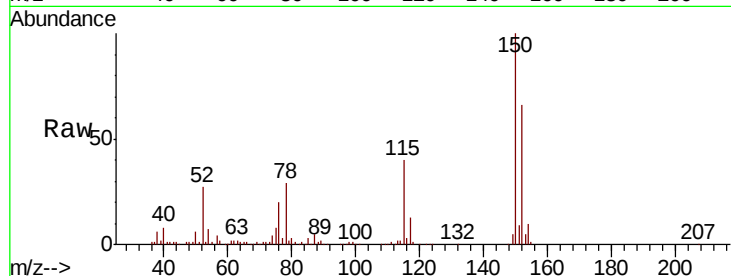
Tgt Ion:152 Resp: 39687

Ion Ratio Lower Upper

152 100

115 61.4 30.5 91.5

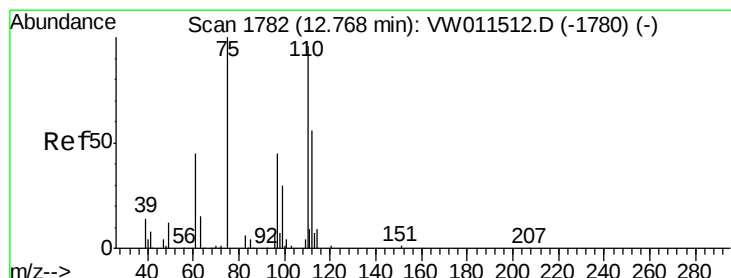
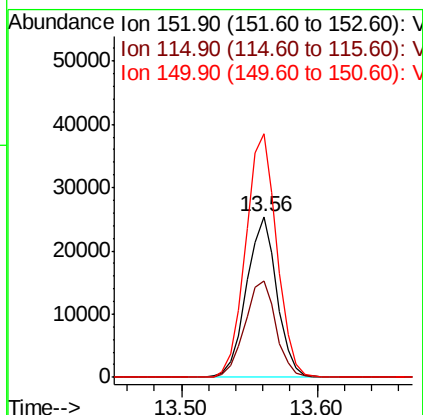
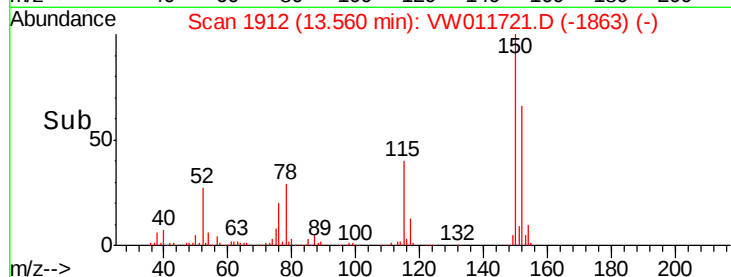
150 155.3 0.0 352.6



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



#76

1,2,3-Trichloropropane

Concen: 62.148 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011721.D

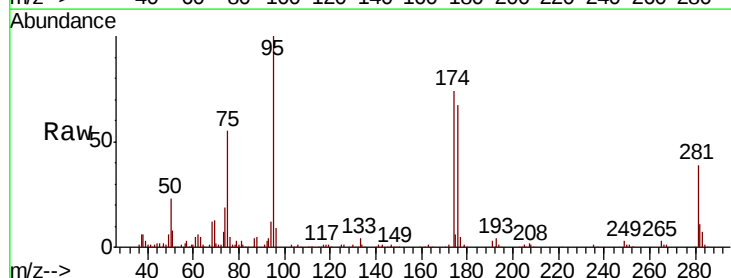
Acq: 05 Aug 2019 20:24

Tgt Ion: 75 Resp: 26098

Ion Ratio Lower Upper

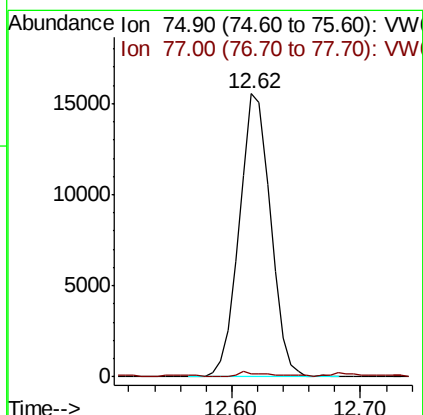
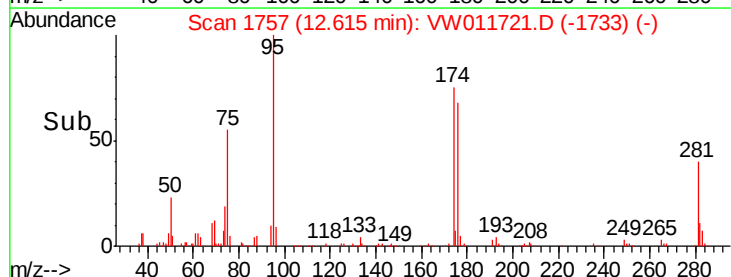
75 100

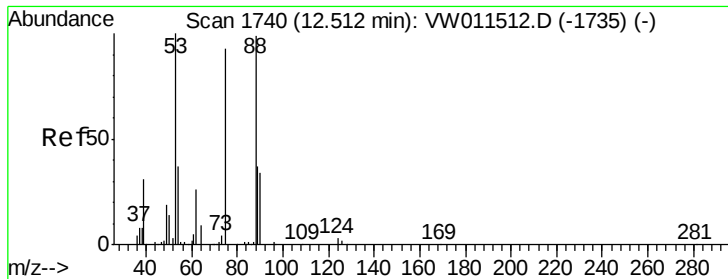
77 1.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

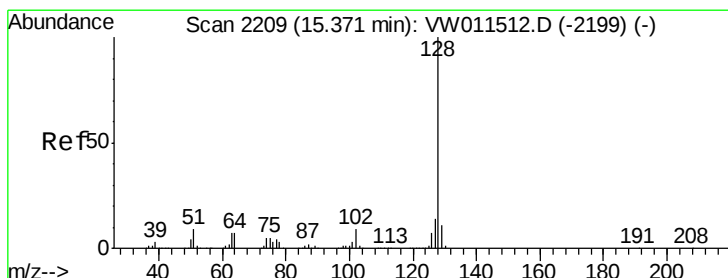
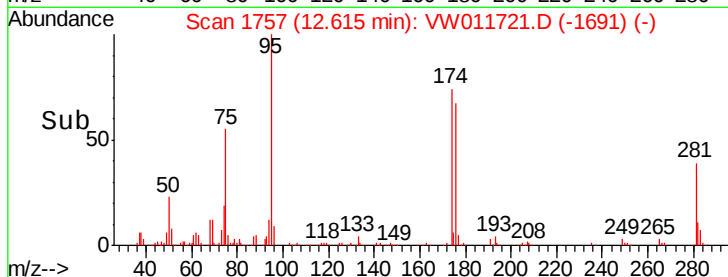
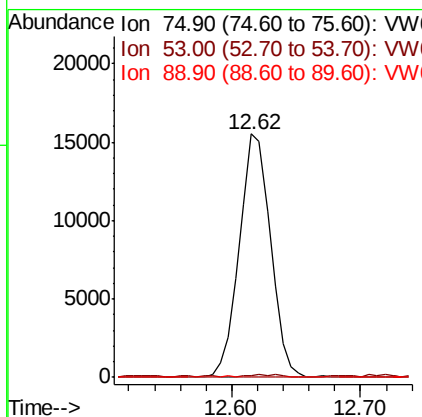
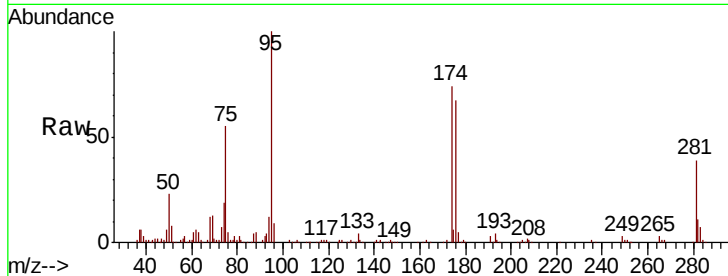




#81
 trans-1,4-Dichloro-2-butene
 Concen: 143.229 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW011721.D
 Acq: 05 Aug 2019 20:24

Instrument :
 MSVOA_W
 ClientSampled :
 PS-5

Tgt Ion: 75 Resp: 26098
 Ion Ratio Lower Upper
 75 100
 53 1.1 88.0 132.0#
 89 0.2 35.3 52.9#



#95
 Naphthalene
 Concen: 2.190 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.01 min
 Lab File: VW011721.D
 Acq: 05 Aug 2019 20:24

Tgt Ion: 128 Resp: 203
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.6 13.0#

