

Data File : VW013446.D
Acq On : 04 Oct 2019 18:20
Operator : SY/VA
Sample : K5213-02
Misc : 5.04G/5ML/MSVOA_W/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
S-1(5-10)

Quant Time: Oct 05 04:58:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 11:49:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	280795	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	408989	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	345437	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	156125	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	109296	52.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.26%	
35) Dibromofluoromethane	7.88	113	111029	51.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.48%	
50) Toluene-d8	10.32	98	470370	52.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.64%	
62) 4-Bromofluorobenzene	12.62	95	149937	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	

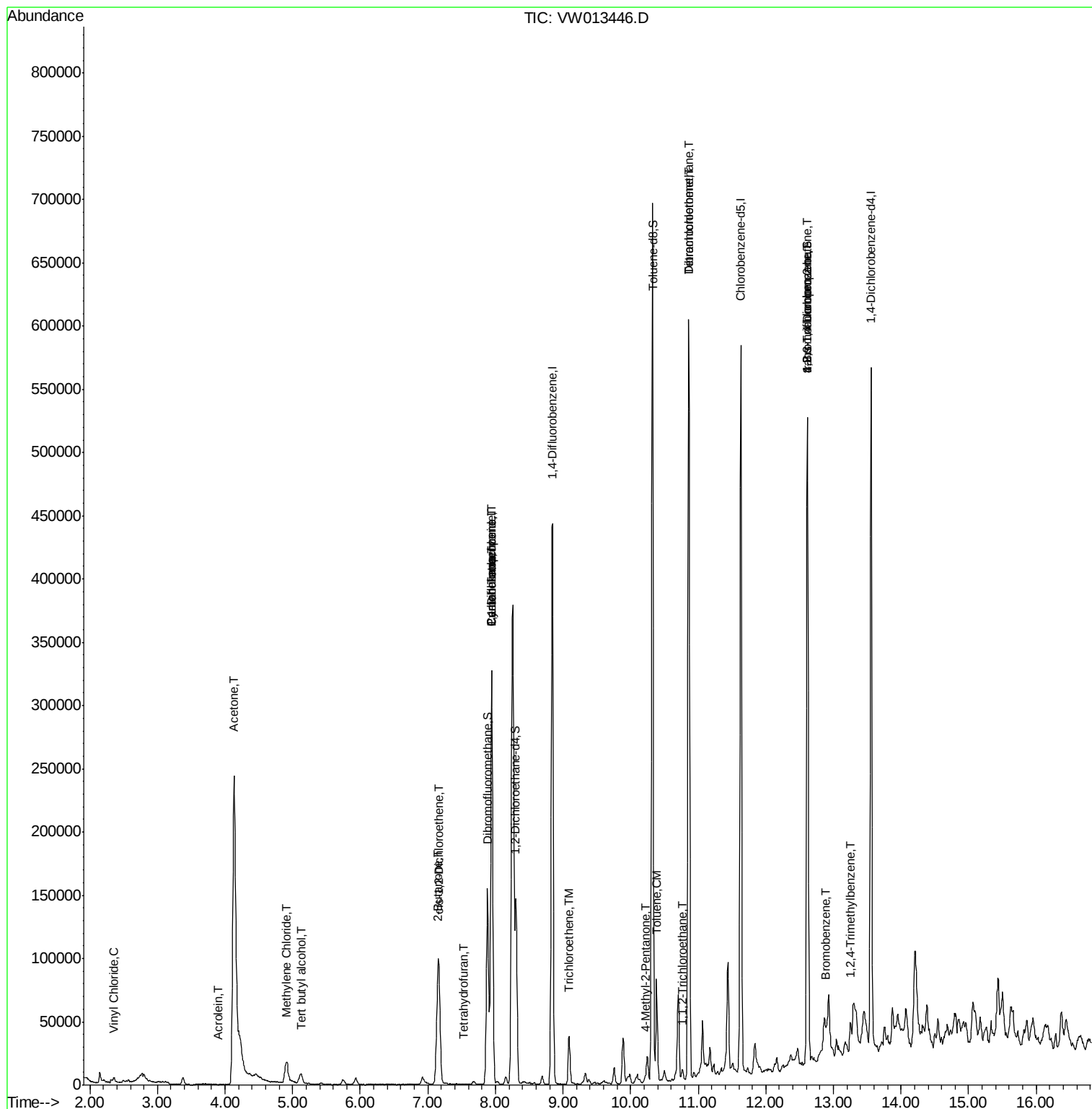
Target Compounds			Qvalue			
4) Vinyl Chloride	2.36	62	2829	1.112	ug/l #	86
11) Tert butyl alcohol	5.12	59	8504	21.193	ug/l #	73
13) Acrolein	3.90	56	24	10.686	ug/l #	15
16) Acetone	4.14	43	648861	1009.659	ug/l	96
20) Methylene Chloride	4.90	84	13663	3.425	ug/l	88
25) 2-Butanone	7.14	43	1881	2.287	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	35722	12.398	ug/l	94
29) Tetrahydrofuran	7.54	42	110	9.914	ug/l #	34
31) Cyclohexane	7.94	56	5507	1.148	ug/l #	20
36) 1,1-Dichloropropene	7.95	75	18515	4.874	ug/l #	49
38) Carbon Tetrachloride	7.95	117	24151	7.339	ug/l #	18
44) Trichloroethene	9.09	130	13977	4.616	ug/l	94
51) 4-Methyl-2-Pentanone	10.21	43	2150	1.297	ug/l #	78
52) Toluene	10.38	92	35982	5.188	ug/l	99
55) 1,1,2-Trichloroethane	10.76	97	2468	1.286	ug/l #	37
60) Dibromochloromethane	10.86	129	119831	54.600	ug/l #	11
64) Tetrachloroethene	10.86	164	153009	58.221	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	72536	52.275	ug/l #	100
77) Bromobenzene	12.88	156	30309	11.053	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	72536	106.024	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.25	105	13075	1.386	ug/l	98

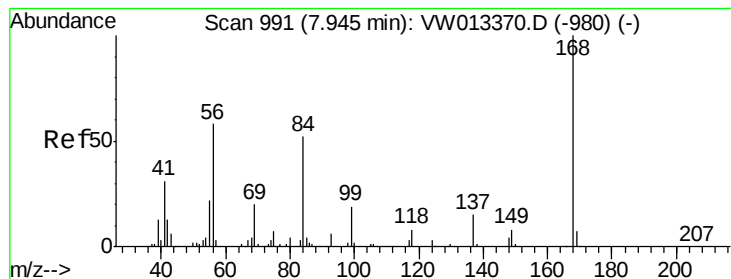
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampled :

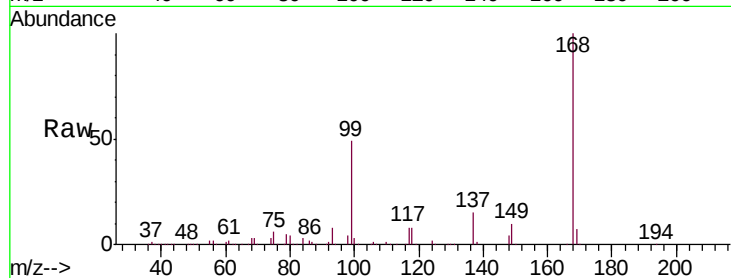
S-1(5-10)

Tgt Ion: 168 Resp: 280795

Ion Ratio Lower Upper

168 100

99 49.2 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

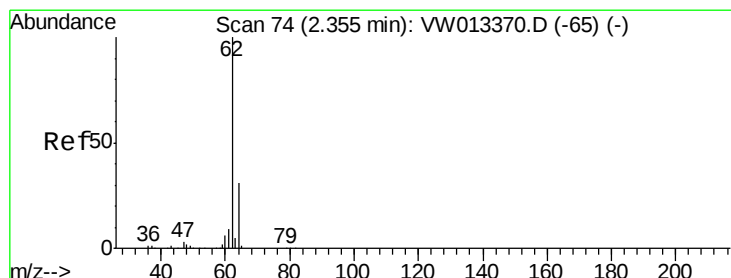
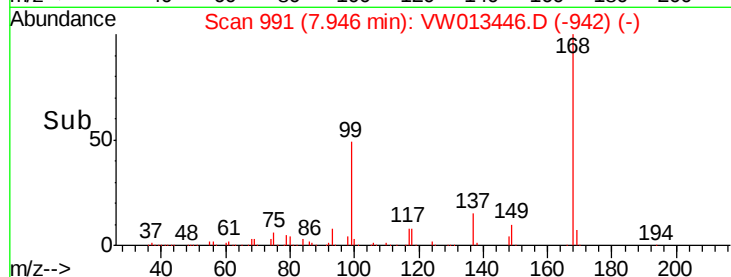
7.95

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 1.112 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW013446.D

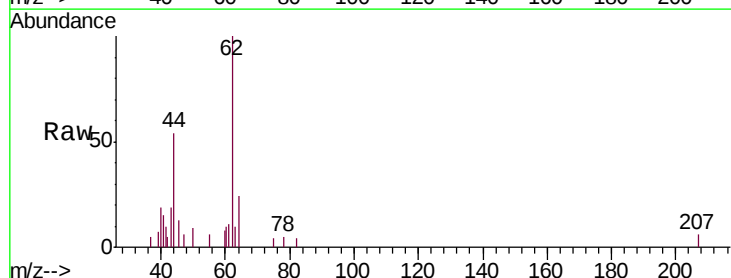
Acq: 04 Oct 2019 18:20

Tgt Ion: 62 Resp: 2829

Ion Ratio Lower Upper

62 100

64 23.7 25.3 37.9#



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

2000

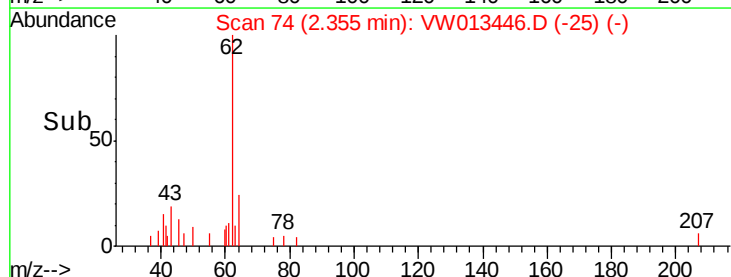
1500

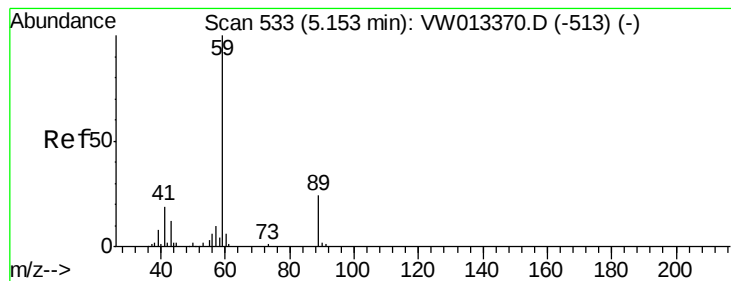
1000

500

0

Time-->





#11

Tert butyl alcohol

Concen: 21.193 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.03 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampled :

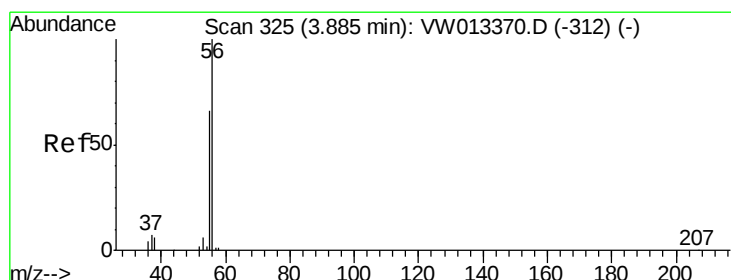
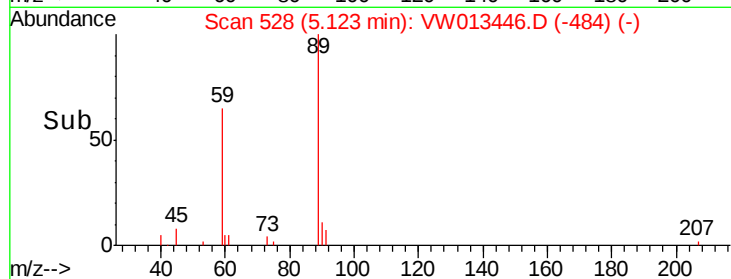
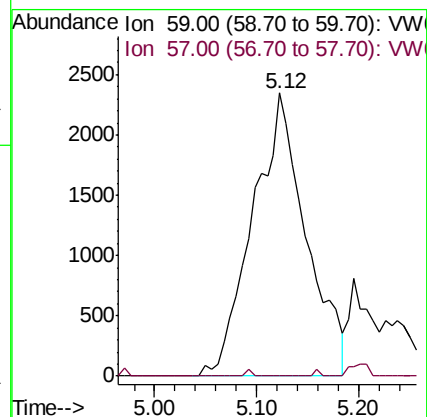
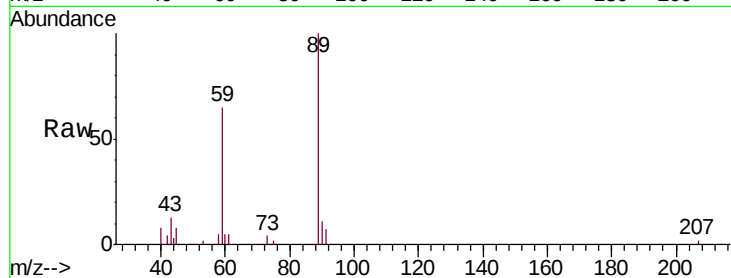
S-1(5-10)

Tgt Ion: 59 Resp: 8504

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#13

Acrolein

Concen: 10.686 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW013446.D

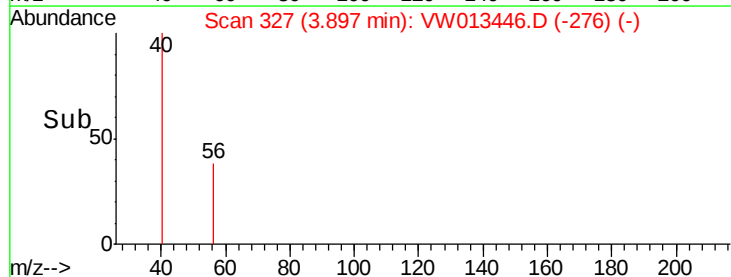
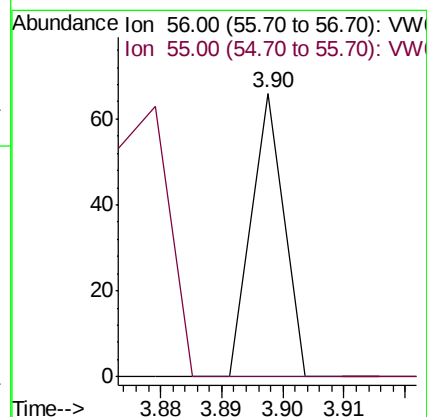
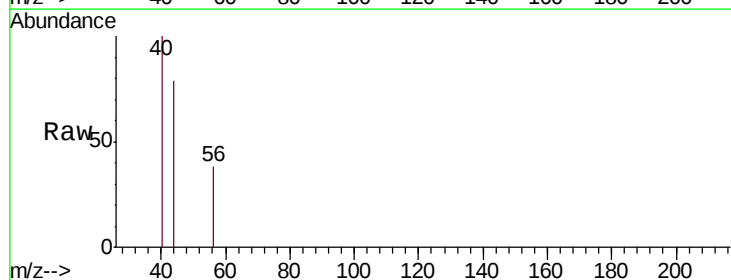
Acq: 04 Oct 2019 18:20

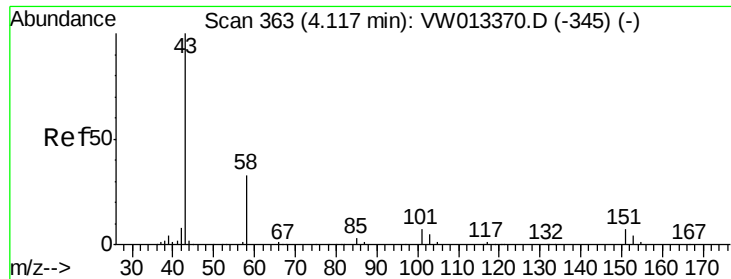
Tgt Ion: 56 Resp: 24

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#





#16

Acetone

Concen: 1009.659 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampleId :

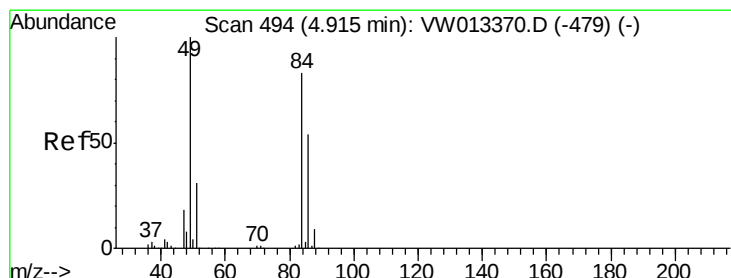
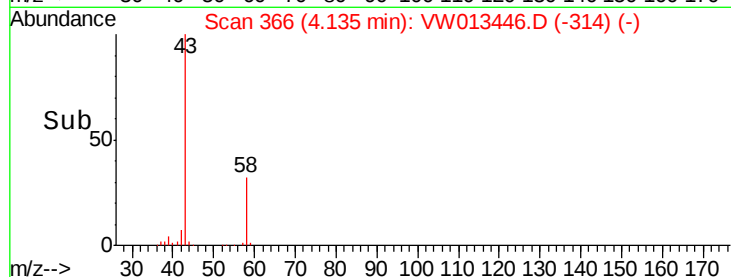
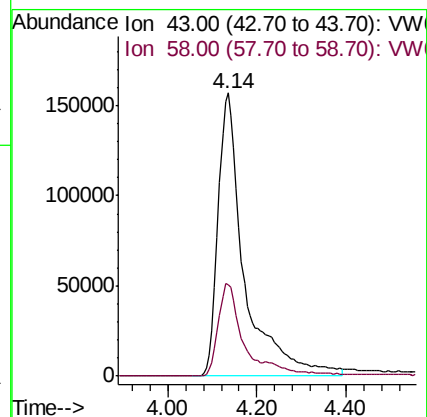
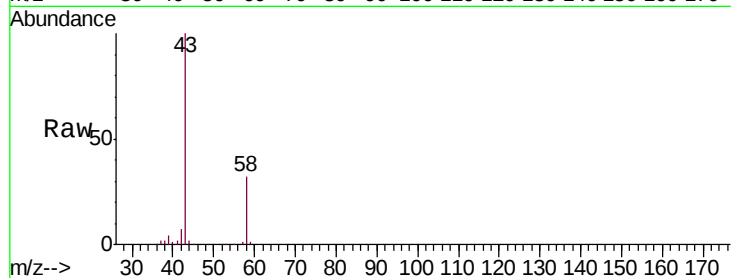
S-1(5-10)

Tgt Ion: 43 Resp: 648861

Ion Ratio Lower Upper

43 100

58 32.3 24.1 36.1



#20

Methylene Chloride

Concen: 3.425 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Tgt Ion: 84 Resp: 13663

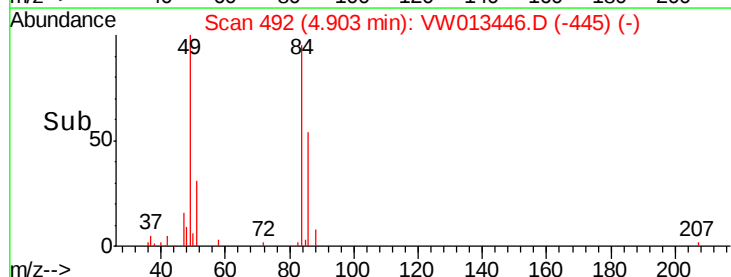
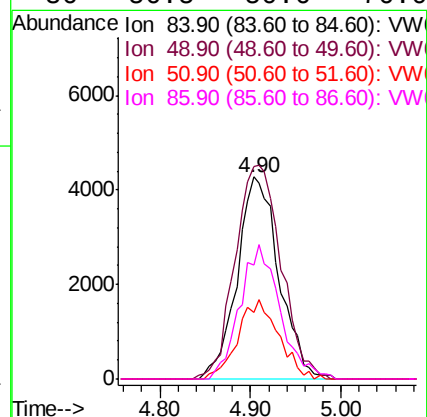
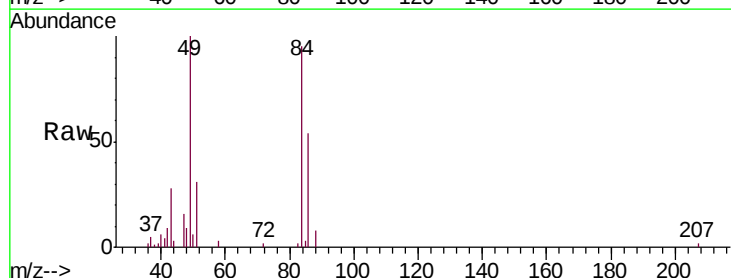
Ion Ratio Lower Upper

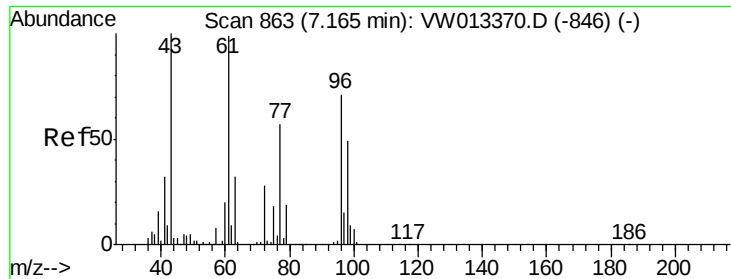
84 100

49 105.2 97.6 146.4

51 32.7 30.2 45.2

86 56.5 50.6 76.0





#25

2-Butanone

Concen: 2.287 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampled :

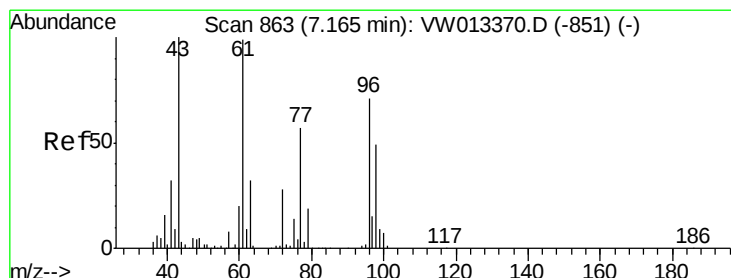
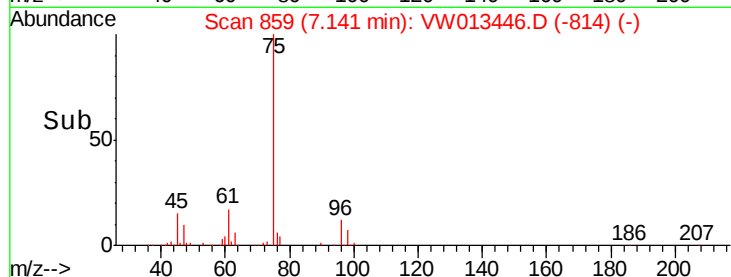
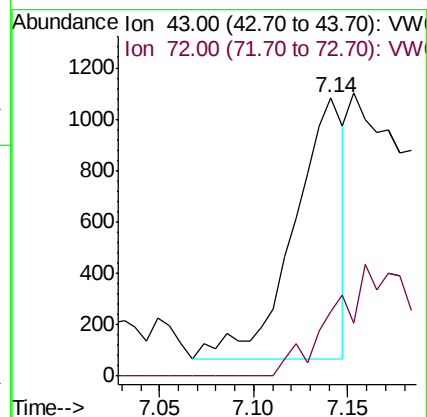
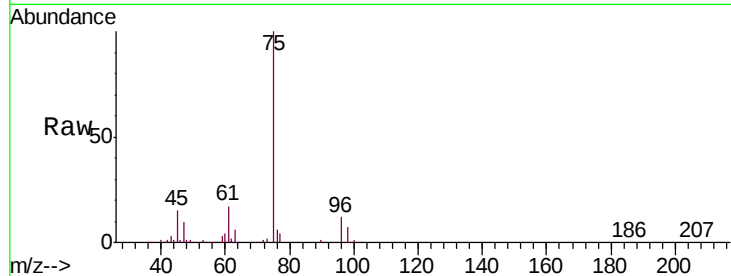
S-1(5-10)

Tgt Ion: 43 Resp: 1881

Ion Ratio Lower Upper

43 100

72 24.9 19.4 29.0



#27

cis-1,2-Dichloroethene

Concen: 12.398 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

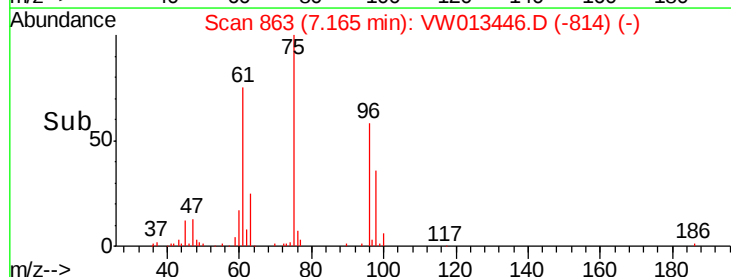
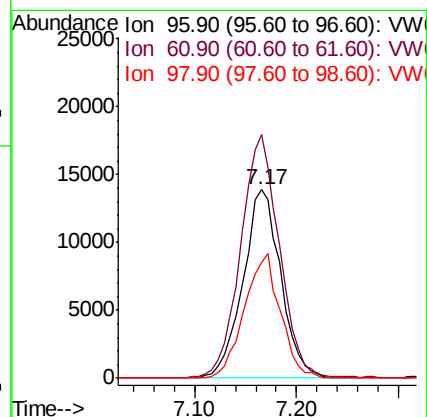
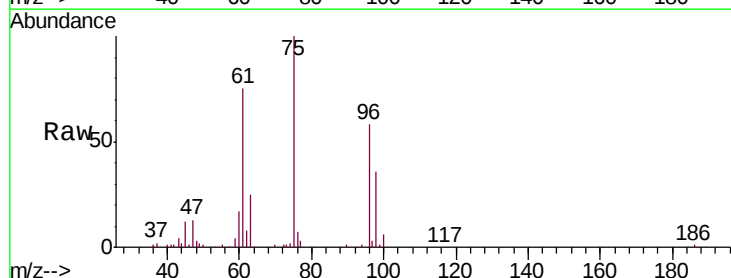
Tgt Ion: 96 Resp: 35722

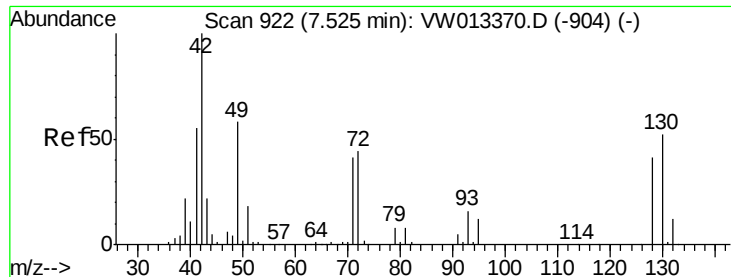
Ion Ratio Lower Upper

96 100

61 131.7 0.0 282.4

98 62.8 0.0 128.2

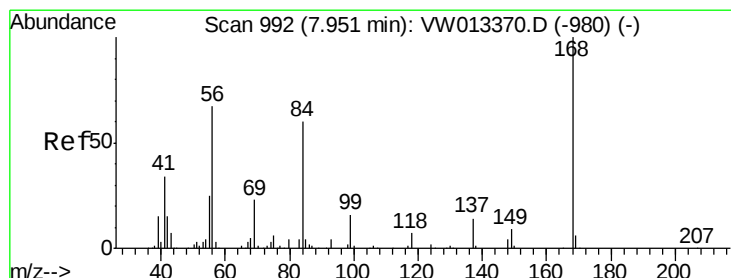
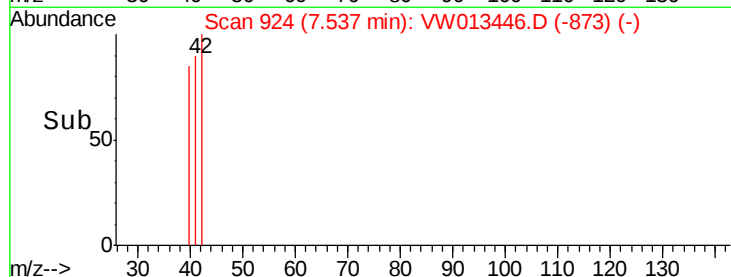
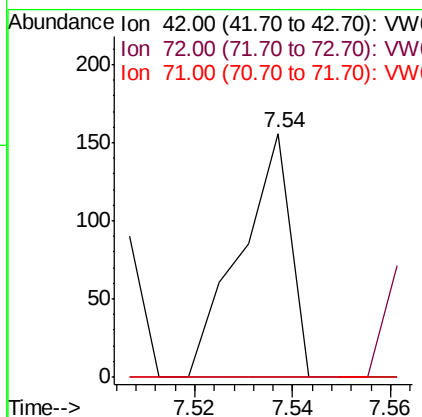
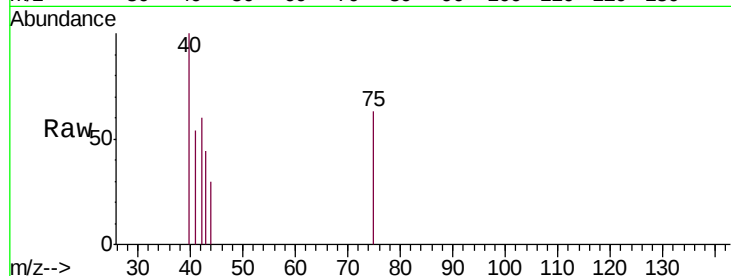




#29
Tetrahydrofuran
Concen: 9.914 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW013446.D
Acq: 04 Oct 2019 18:20

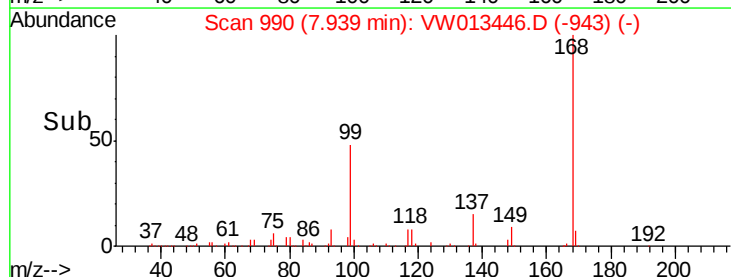
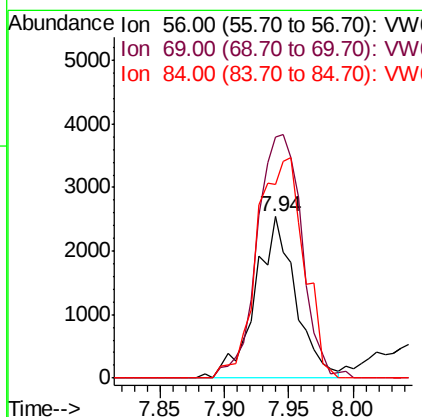
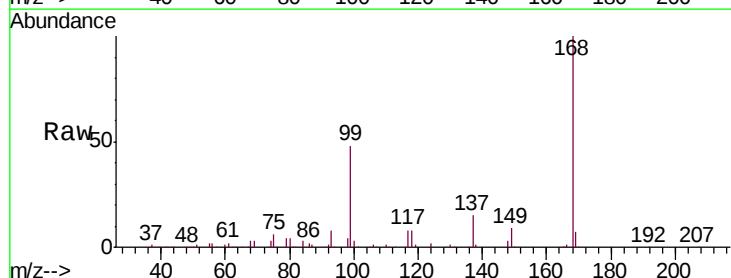
Instrument :
MSVOA_W
ClientSampled :
S-1(5-10)

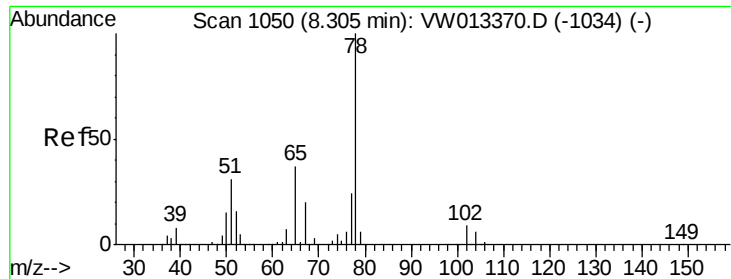
Tgt Ion: 42 Resp: 110
Ion Ratio Lower Upper
42 100
72 0.0 33.9 50.9#
71 0.0 31.9 47.9#



#31
Cyclohexane
Concen: 1.148 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW013446.D
Acq: 04 Oct 2019 18:20

Tgt Ion: 56 Resp: 5507
Ion Ratio Lower Upper
56 100
69 148.9 27.2 40.8#
84 119.7 70.8 106.2#





#33

1,2-Dichloroethane-d4

Concen: 52.130 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampleId :

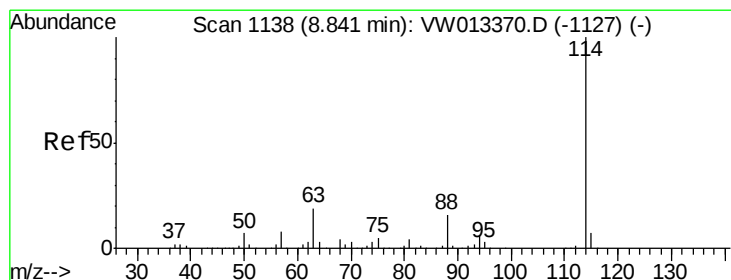
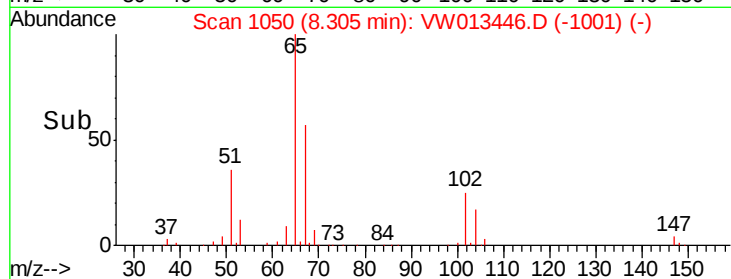
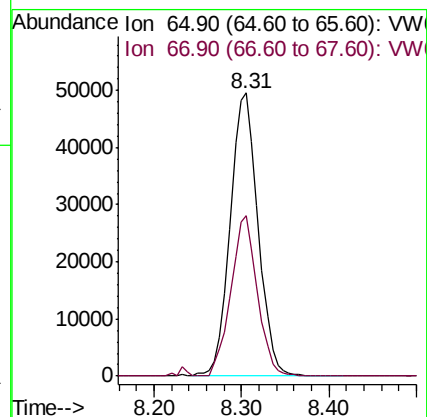
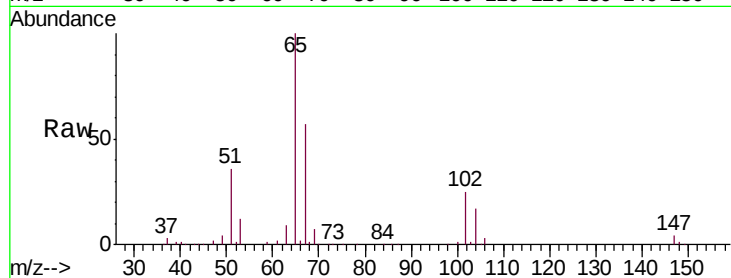
S-1(5-10)

Tgt Ion: 65 Resp: 109296

Ion Ratio Lower Upper

65 100

67 54.2 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

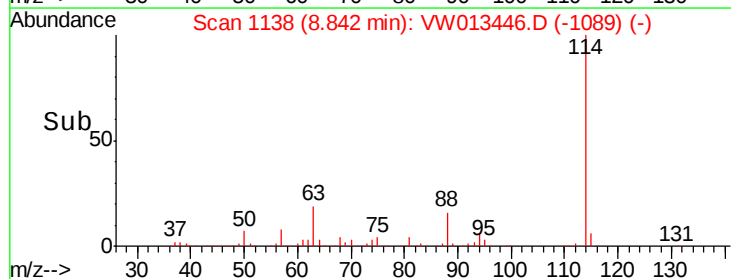
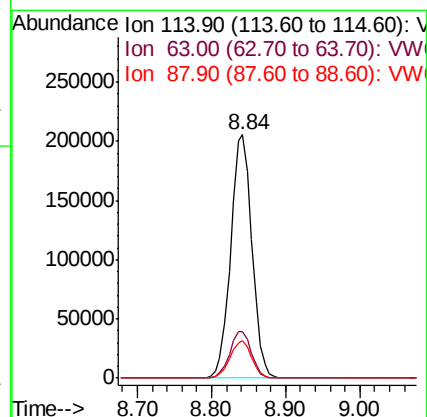
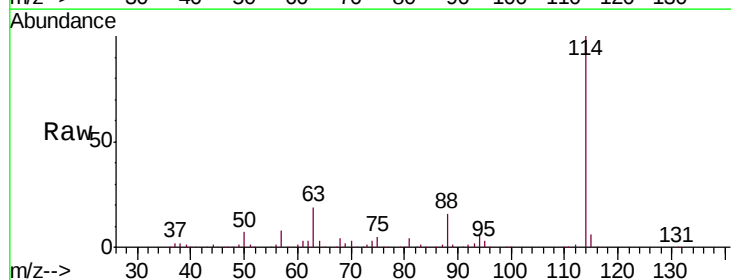
Tgt Ion: 114 Resp: 408989

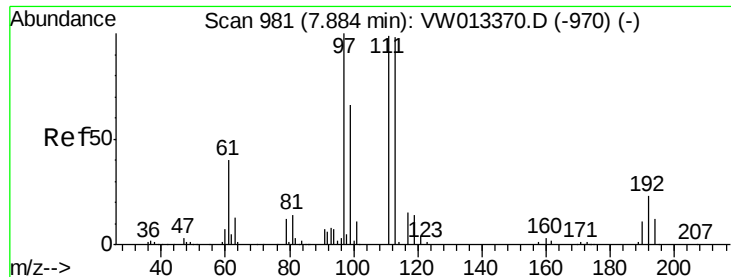
Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

88 15.7 0.0 32.0

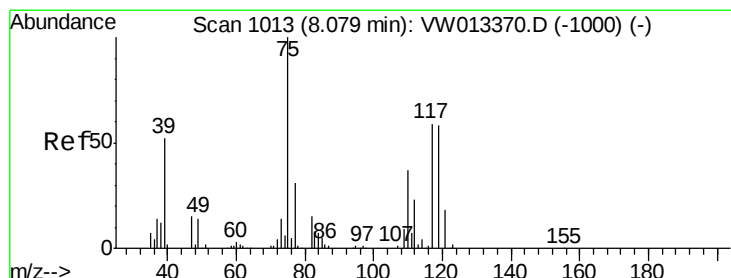
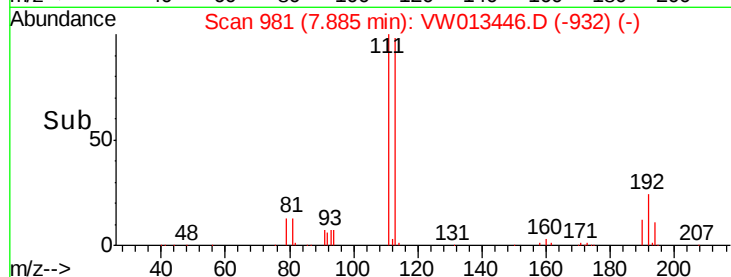
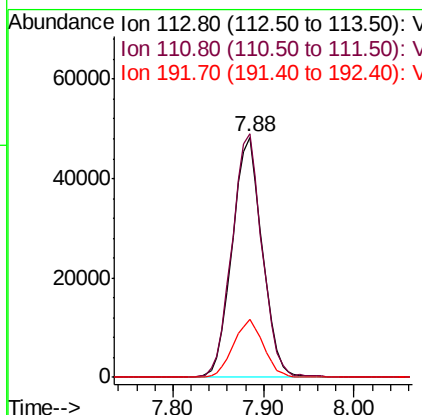
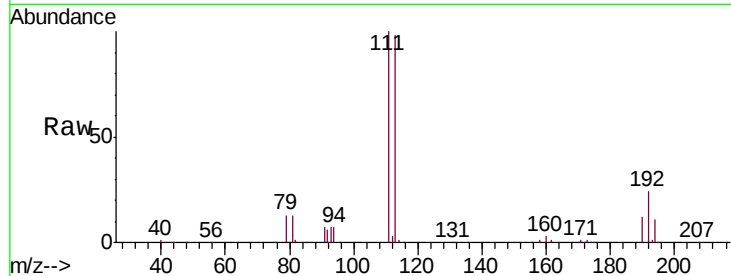




#35
 Dibromofluoromethane
 Concen: 51.736 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013446.D
 Acq: 04 Oct 2019 18:20

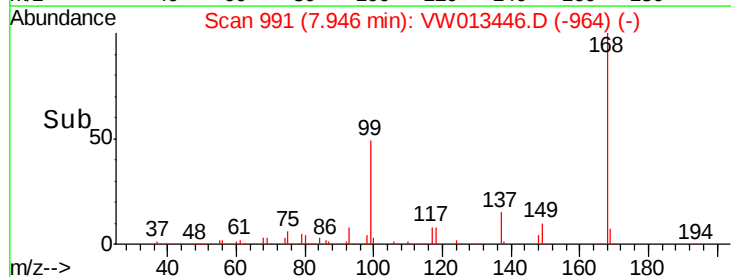
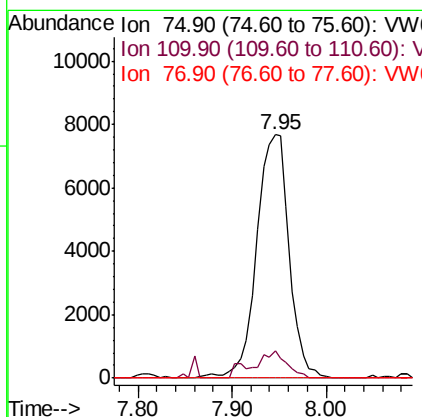
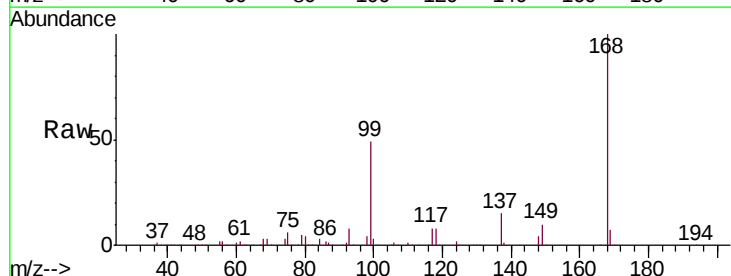
Instrument :
 MSVOA_W
 ClientSampleId :
 S-1(5-10)

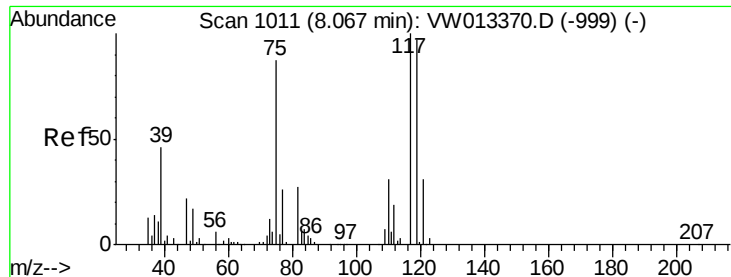
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.9	122.9
192	24.1	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 4.874 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013446.D
 Acq: 04 Oct 2019 18:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.3#
77	0.0	25.8	38.6#





#38

Carbon Tetrachloride

Concen: 7.339 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampled :

S-1(5-10)

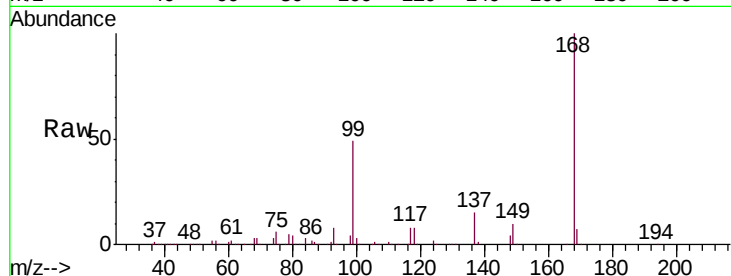
Tgt Ion:117 Resp: 24151

Ion Ratio Lower Upper

117 100

119 5.0 73.5 110.3#

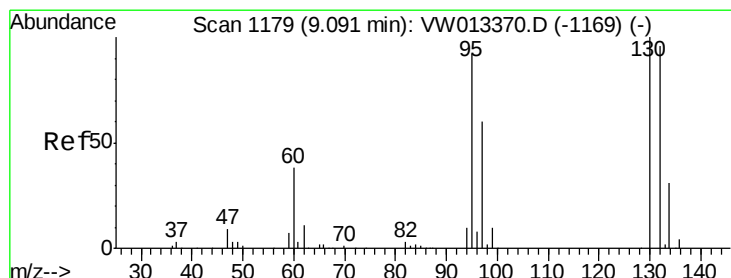
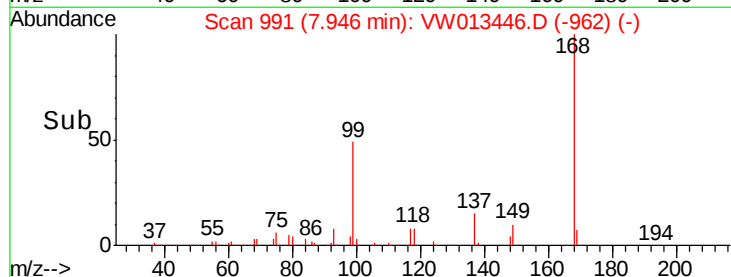
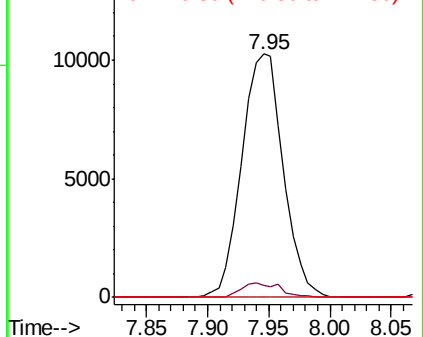
121 0.0 25.0 37.6#



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



#44

Trichloroethene

Concen: 4.616 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW013446.D

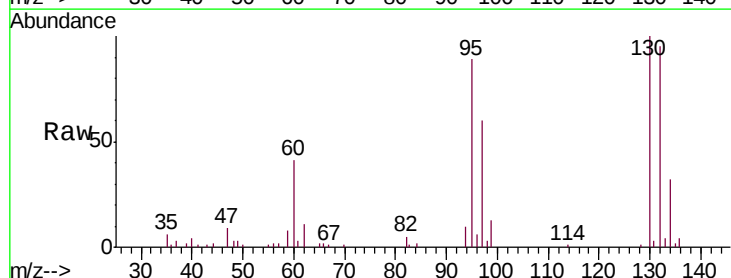
Acq: 04 Oct 2019 18:20

Tgt Ion:130 Resp: 13977

Ion Ratio Lower Upper

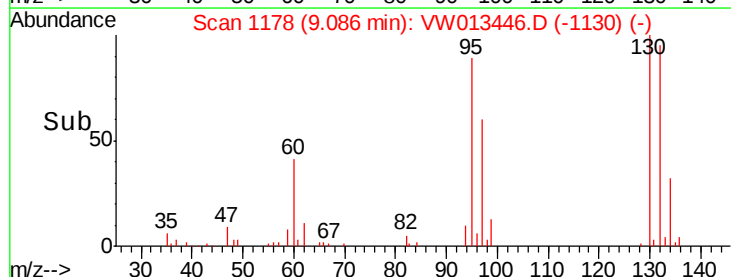
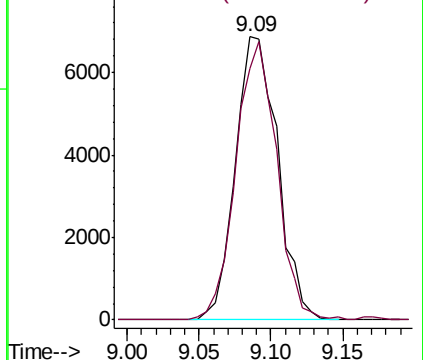
130 100

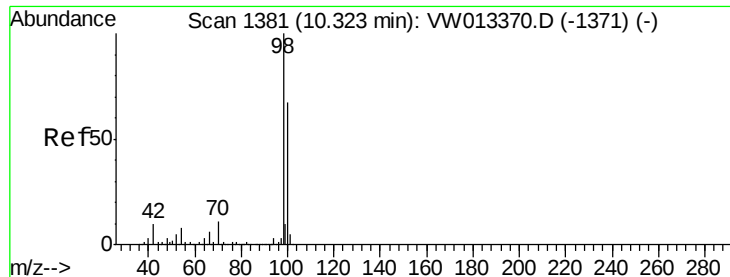
95 88.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW





#50

Toluene-d8

Concen: 52.816 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampleId :

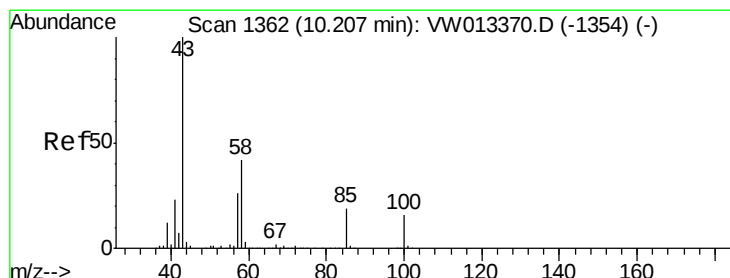
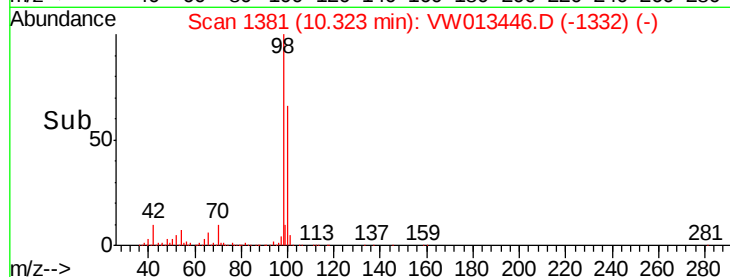
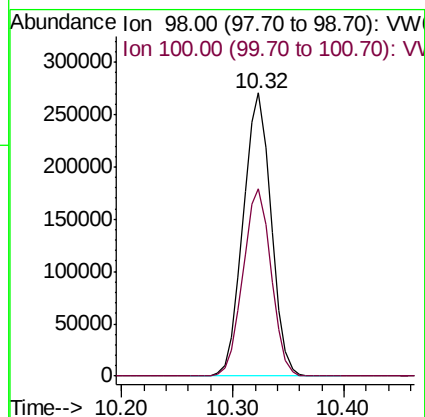
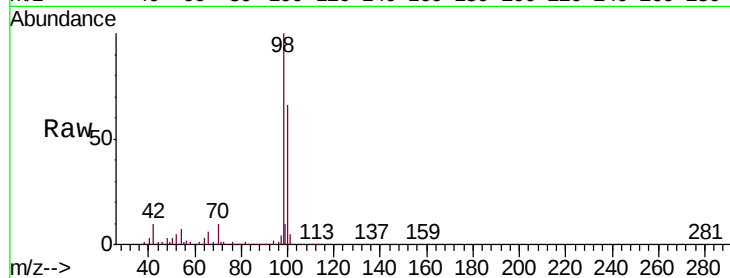
S-1(5-10)

Tgt Ion: 98 Resp: 470370

Ion Ratio Lower Upper

98 100

100 66.9 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 1.297 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW013446.D

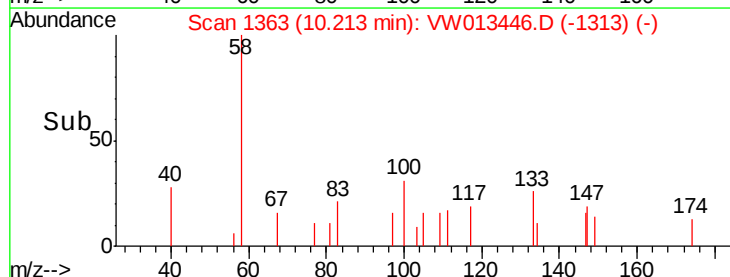
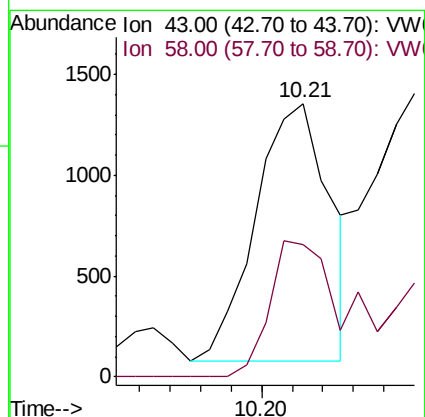
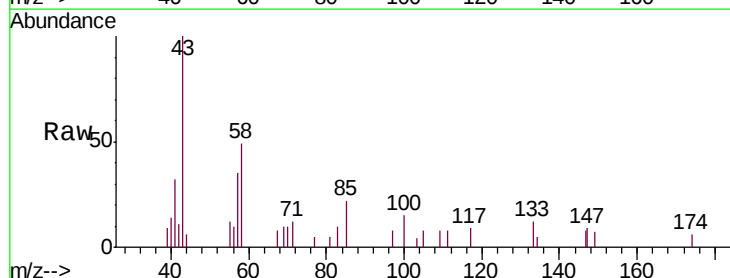
Acq: 04 Oct 2019 18:20

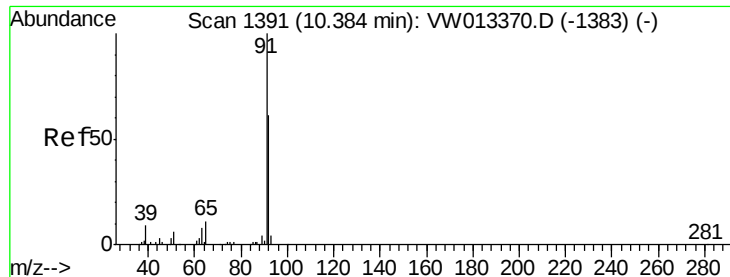
Tgt Ion: 43 Resp: 2150

Ion Ratio Lower Upper

43 100

58 53.3 31.7 47.5#





#52

Toluene

Concen: 5.188 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampleId :

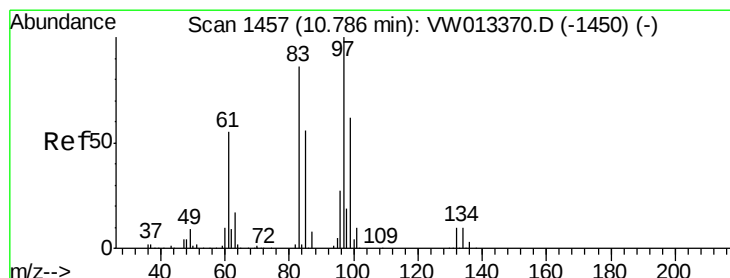
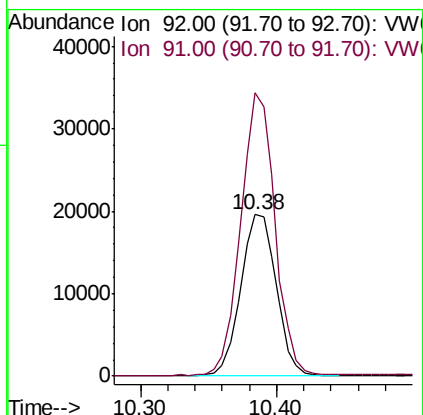
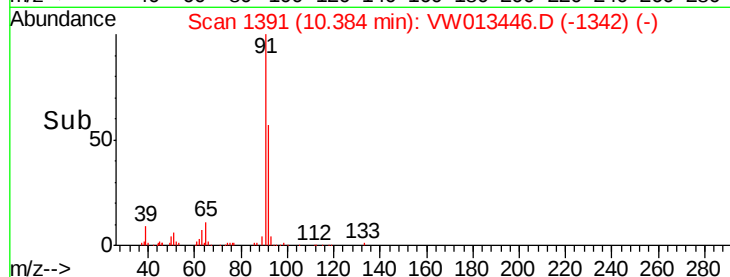
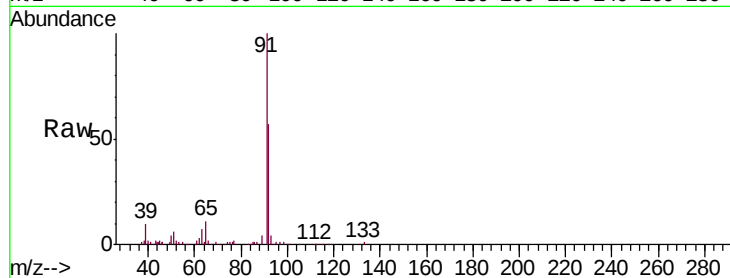
S-1(5-10)

Tgt Ion: 92 Resp: 35982

Ion Ratio Lower Upper

92 100

91 167.8 135.7 203.5



#55

1,1,2-Trichloroethane

Concen: 1.286 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Tgt Ion: 97 Resp: 2468

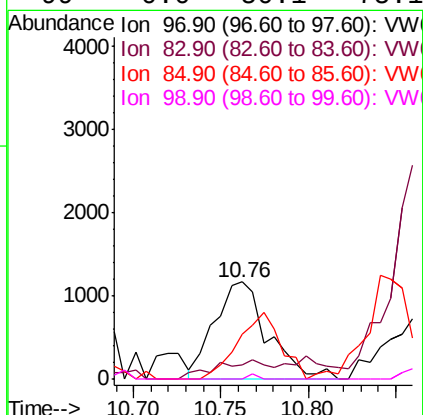
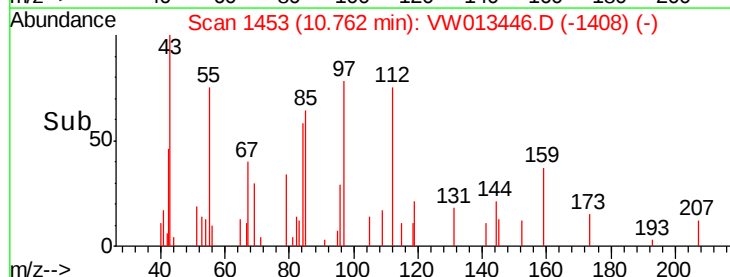
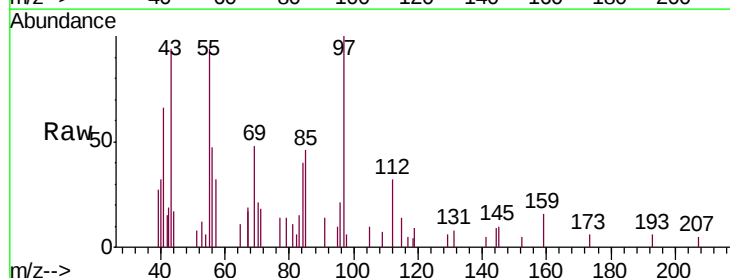
Ion Ratio Lower Upper

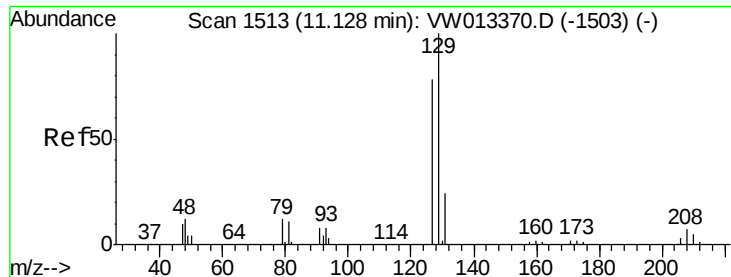
97 100

83 8.4 67.6 101.4#

85 46.0 41.9 62.9

99 0.0 50.1 75.1#





#60

Dibromochloromethane

Concen: 54.600 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampleId :

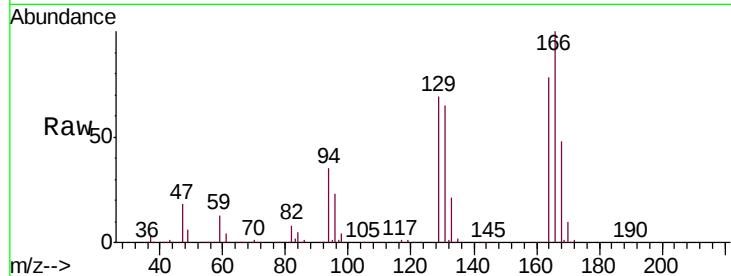
S-1(5-10)

Tgt Ion:129 Resp: 119831

Ion Ratio Lower Upper

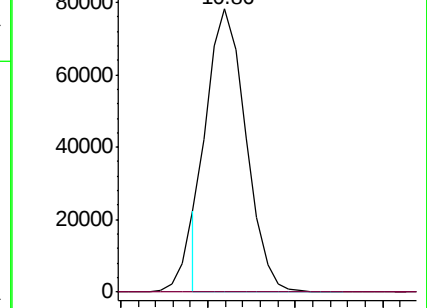
129 100

127 0.1 38.8 116.4#

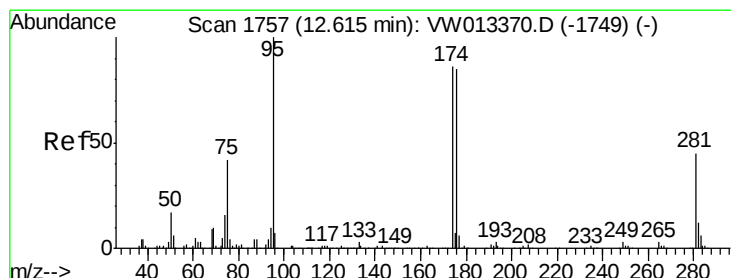
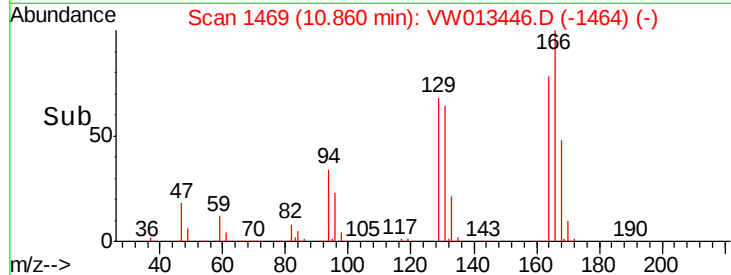


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time--> 10.80 10.85 10.90 10.95



#62

4-Bromofluorobenzene

Concen: 50.417 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

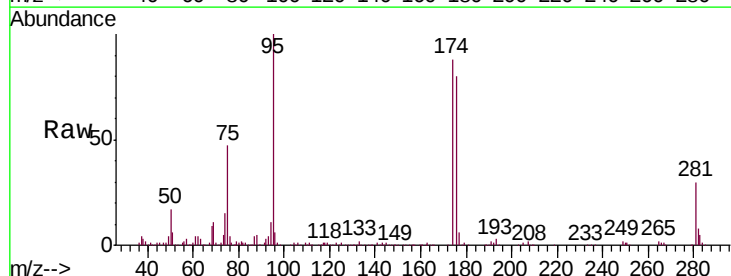
Tgt Ion: 95 Resp: 149937

Ion Ratio Lower Upper

95 100

174 90.4 0.0 178.4

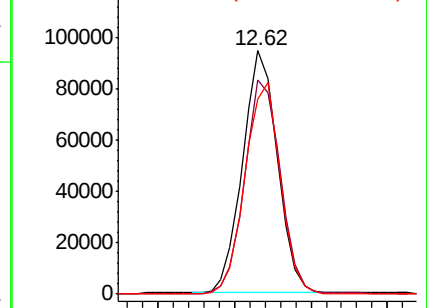
176 88.6 0.0 172.2



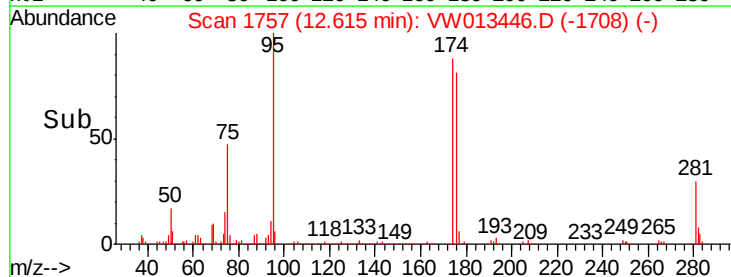
Abundance Ion 94.90 (94.60 to 95.60): VW

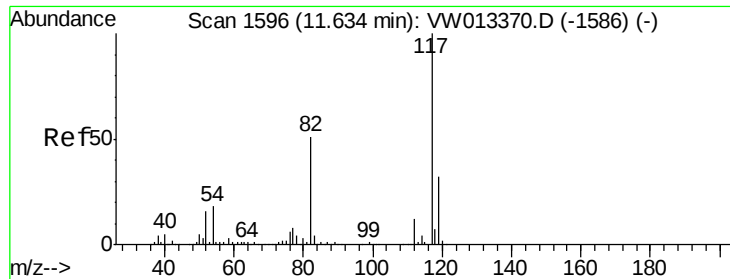
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time--> 12.55 12.60 12.65 12.70

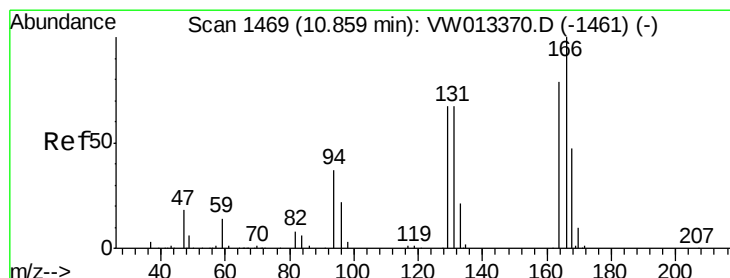
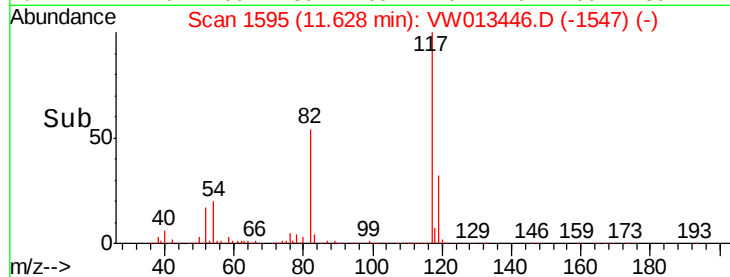
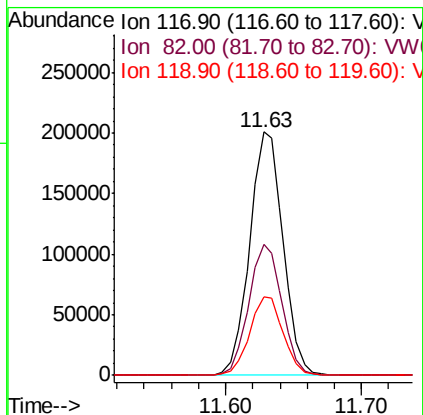
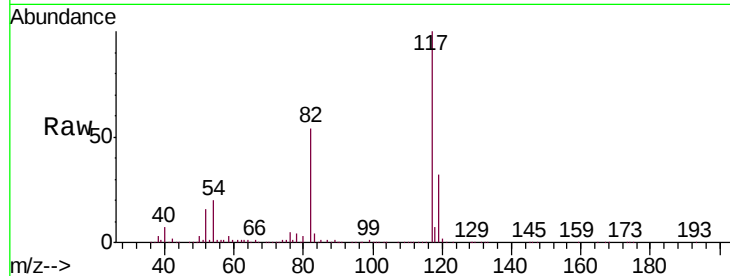




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW013446.D
Acq: 04 Oct 2019 18:20

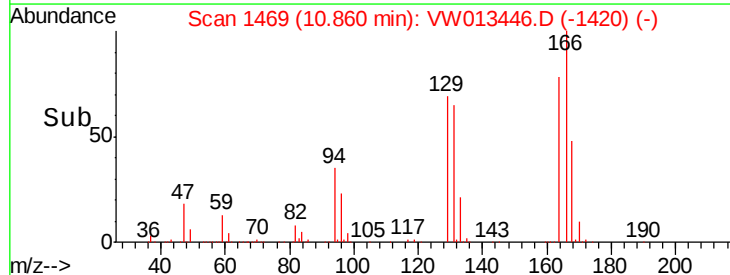
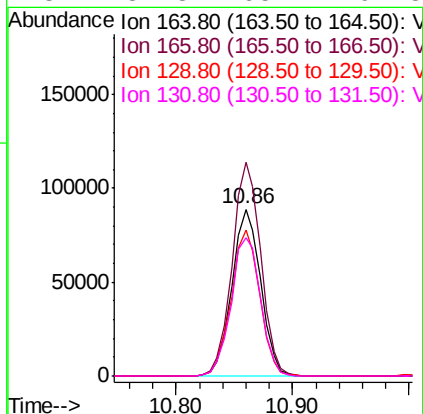
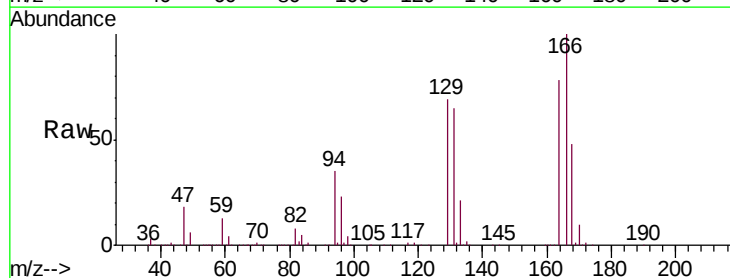
Instrument :
MSVOA_W
ClientSampled :
S-1(5-10)

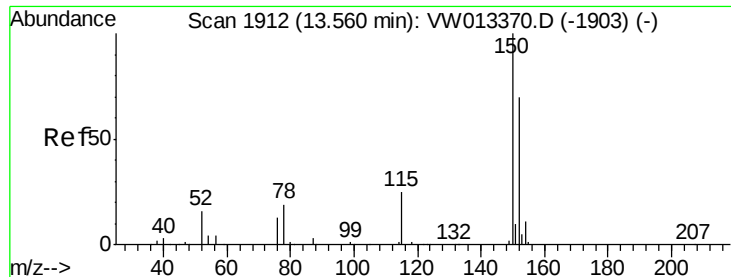
Tgt Ion:117 Resp: 345437
Ion Ratio Lower Upper
117 100
82 53.8 45.9 68.9
119 32.3 26.2 39.2



#64
Tetrachloroethene
Concen: 58.221 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013446.D
Acq: 04 Oct 2019 18:20

Tgt Ion:164 Resp: 153009
Ion Ratio Lower Upper
164 100
166 128.0 101.2 151.8
129 87.7 68.8 103.2
131 82.8 65.2 97.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampleId :

S-1(5-10)

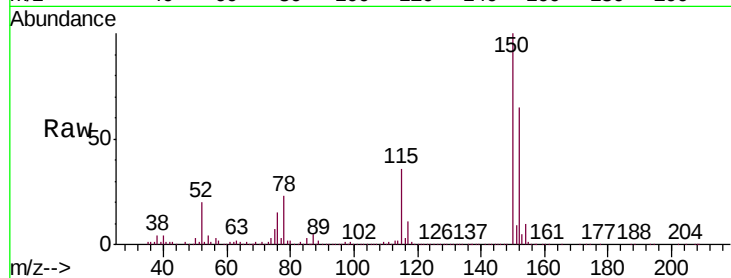
Tgt Ion:152 Resp: 156125

Ion Ratio Lower Upper

152 100

115 55.0 27.3 81.9

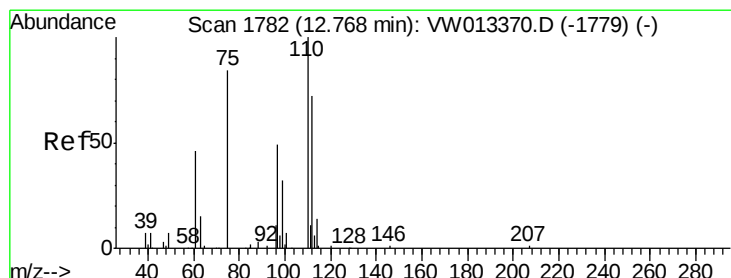
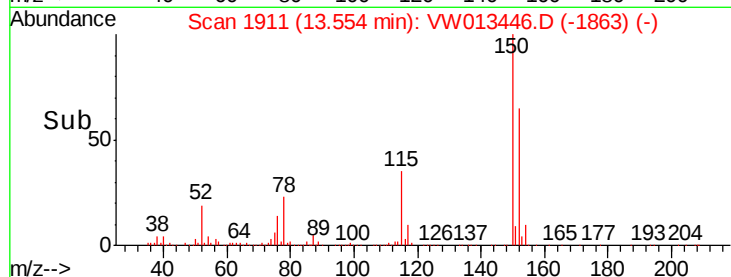
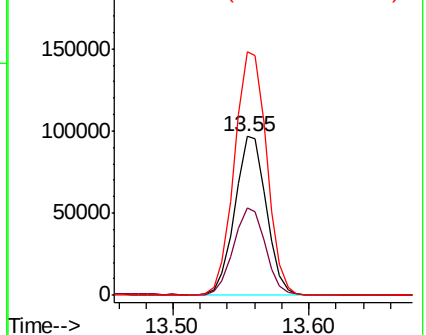
150 157.1 0.0 349.0



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: 52.275 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013446.D

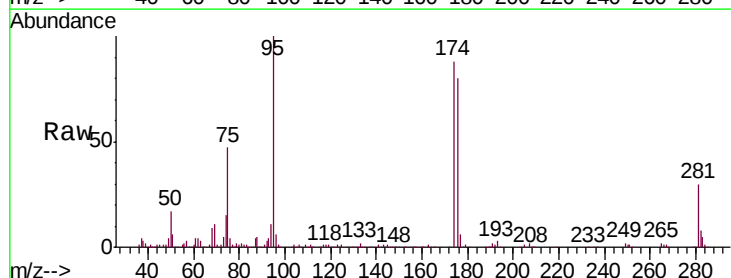
Acq: 04 Oct 2019 18:20

Tgt Ion: 75 Resp: 72536

Ion Ratio Lower Upper

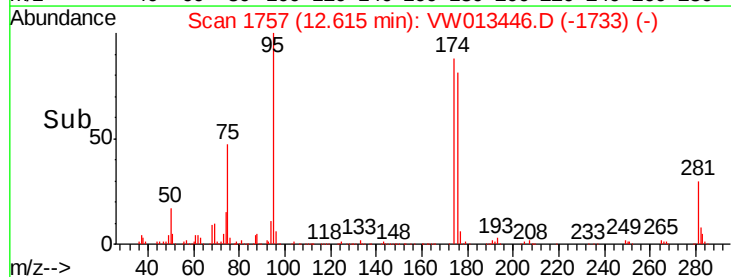
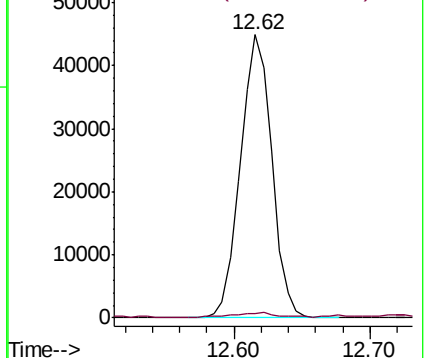
75 100

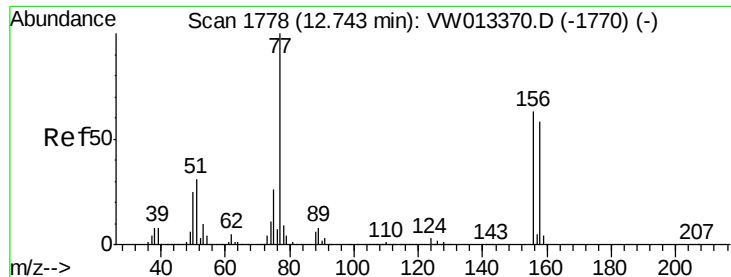
77 2.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 11.053 ug/l

RT: 12.88 min Scan# 1801

Delta R.T. 0.14 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

Instrument :

MSVOA_W

ClientSampled :

S-1(5-10)

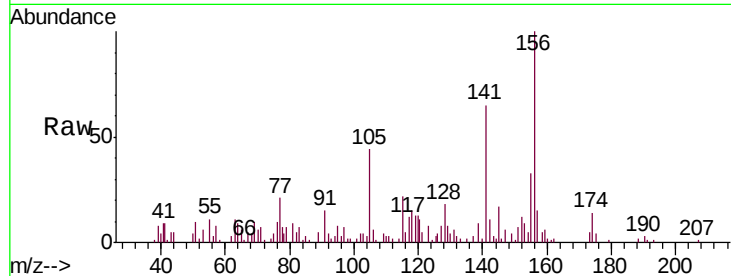
Tgt Ion:156 Resp: 30309

Ion Ratio Lower Upper

156 100

77 0.0 85.7 257.1#

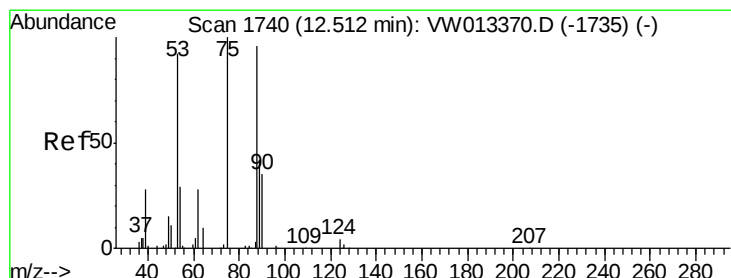
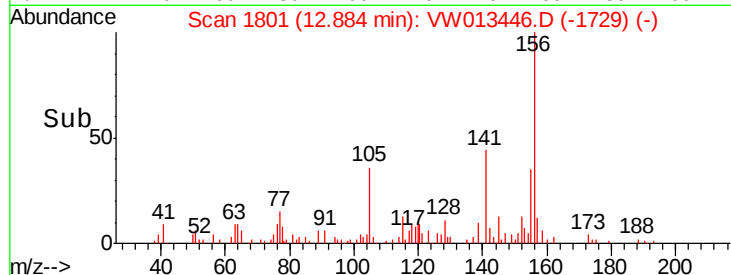
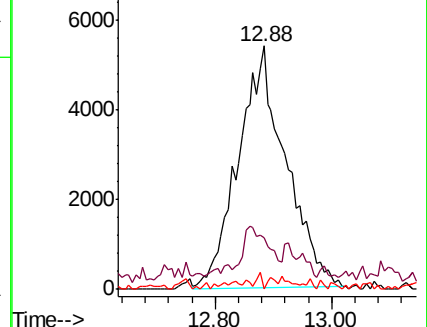
158 0.7 48.1 144.4#



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



#81

trans-1,4-Dichloro-2-butene

Concen: 106.024 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013446.D

Acq: 04 Oct 2019 18:20

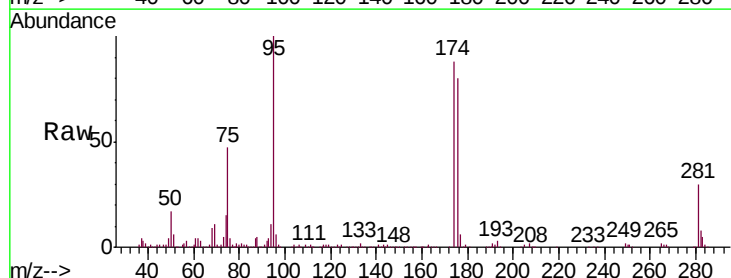
Tgt Ion: 75 Resp: 72536

Ion Ratio Lower Upper

75 100

53 0.1 76.6 114.8#

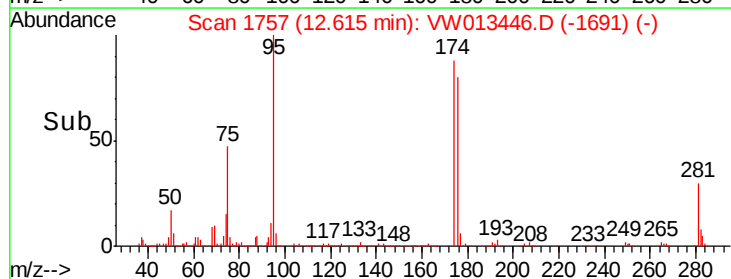
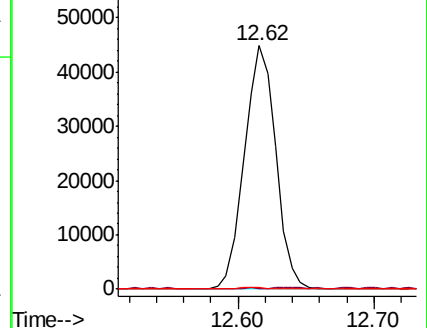
89 0.4 33.5 50.3#

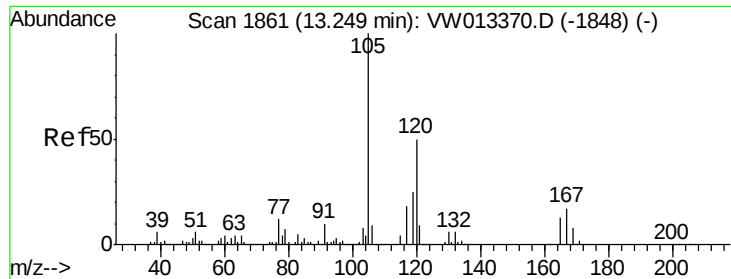


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#84
 1,2,4-Trimethylbenzene
 Concen: 1.386 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW013446.D
 Acq: 04 Oct 2019 18:20

Instrument :
 MSVOA_W
 ClientSampleId :
 S-1(5-10)

Tgt Ion:105 Resp: 13075
 Ion Ratio Lower Upper
 105 100
 120 47.9 23.4 70.3

