

Data File : VW013447.D
Acq On : 04 Oct 2019 18:46
Operator : SY/VA
Sample : K5213-04RE
Misc : 5.02G/5ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
S-2(5-10)

Quant Time: Oct 05 04:58:37 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	334001	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	490580	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	416215	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	189811	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	125318	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
35) Dibromofluoromethane	7.88	113	134407	52.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.42%	
50) Toluene-d8	10.32	98	566789	53.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.12%	
62) 4-Bromofluorobenzene	12.62	95	183432	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	

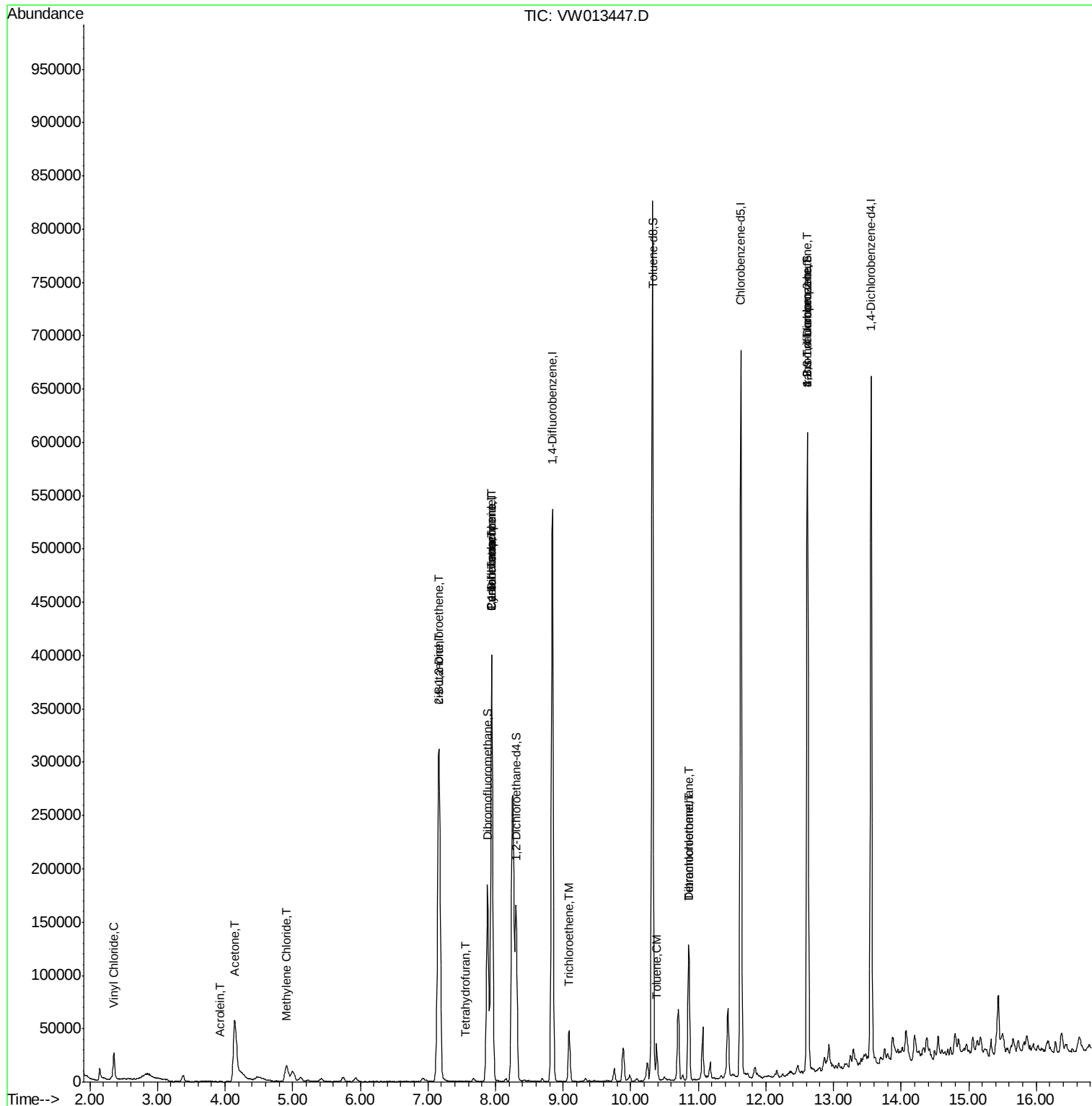
Target Compounds			Qvalue			
4) Vinyl Chloride	2.35	62	22614	7.475	ug/l	98
11) Tert butyl alcohol	5.12	59	3919	Below Cal	#	73
13) Acrolein	3.92	56	28	10.684	ug/l #	15
16) Acetone	4.15	43	143278	187.432	ug/l	98
20) Methylene Chloride	4.91	84	12505	2.207	ug/l	98
25) 2-Butanone	7.16	43	4444	4.543	ug/l #	72
26) 2,2-Dichloropropane	7.15	77	5023	Below Cal	#	1
27) cis-1,2-Dichloroethene	7.16	96	172968	50.468	ug/l	92
29) Tetrahydrofuran	7.56	42	25	9.736	ug/l #	34
31) Cyclohexane	7.94	56	5856	1.026	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	21461	4.710	ug/l #	48
38) Carbon Tetrachloride	7.94	117	28154	7.133	ug/l #	18
44) Trichloroethene	9.09	130	17409	4.793	ug/l	89
52) Toluene	10.38	92	14919	1.793	ug/l	95
60) Dibromochloromethane	10.86	129	24682	9.376	ug/l #	11
64) Tetrachloroethene	10.86	164	31290	9.882	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	84577	50.135	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	84577	101.856	ug/l #	12

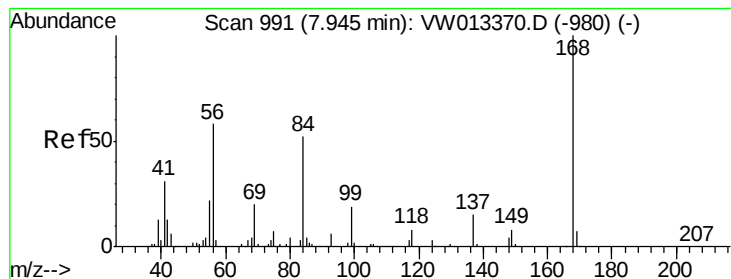
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013447.D

Acq: 04 Oct 2019 18:46

Instrument :

MSVOA_W

ClientSampleId :

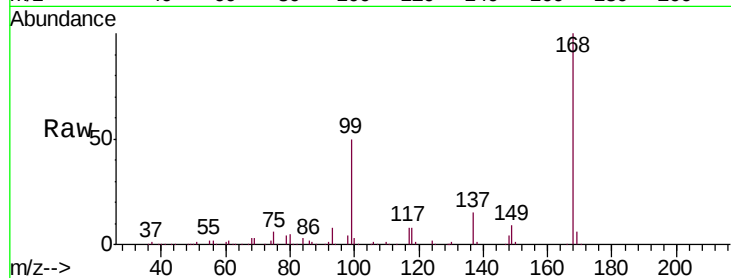
S-2(5-10)

Tgt Ion:168 Resp: 334001

Ion Ratio Lower Upper

168 100

99 49.8 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

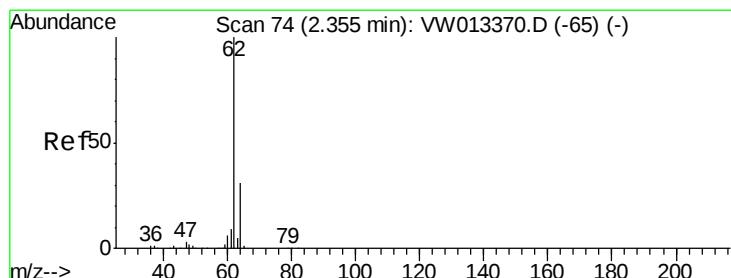
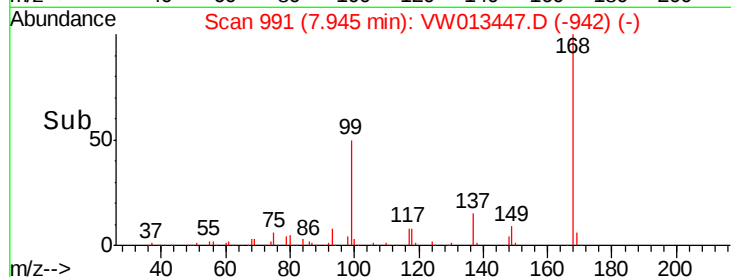
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 7.475 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW013447.D

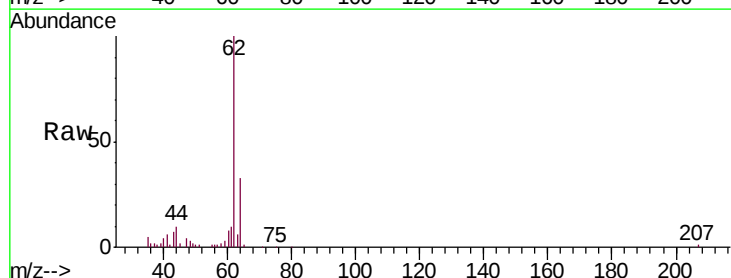
Acq: 04 Oct 2019 18:46

Tgt Ion: 62 Resp: 22614

Ion Ratio Lower Upper

62 100

64 32.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.35

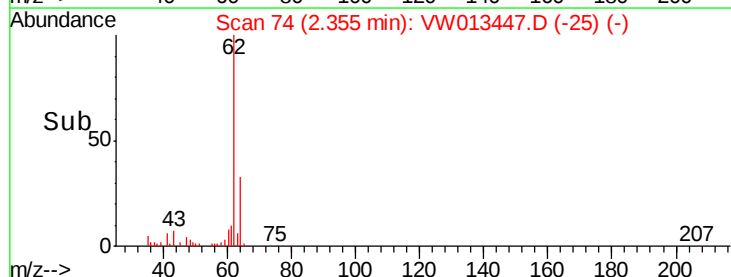
15000

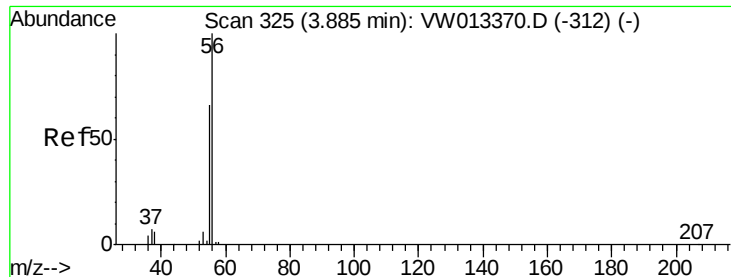
10000

5000

0

Time-->





#13

Acrolein

Concen: 10.684 ug/l

RT: 3.92 min Scan# 331

Delta R.T. 0.04 min

Lab File: VW013447.D

Acq: 04 Oct 2019 18:46

Instrument :

MSVOA_W

ClientSampleId :

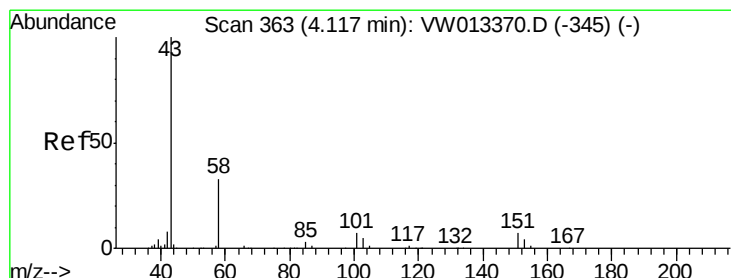
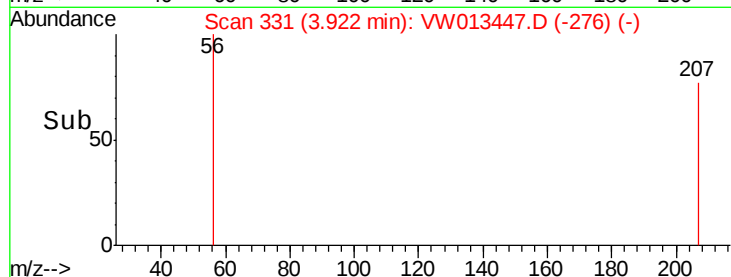
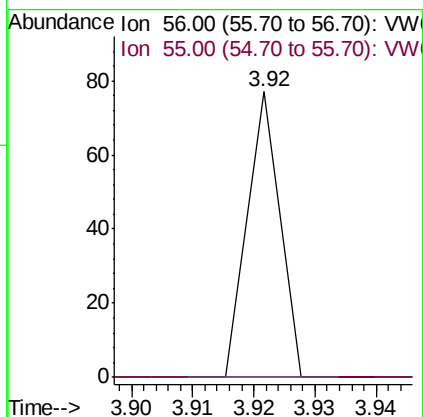
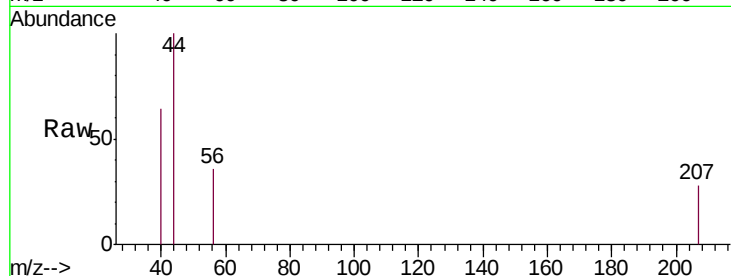
S-2(5-10)

Tgt Ion: 56 Resp: 28

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



#16

Acetone

Concen: 187.432 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.03 min

Lab File: VW013447.D

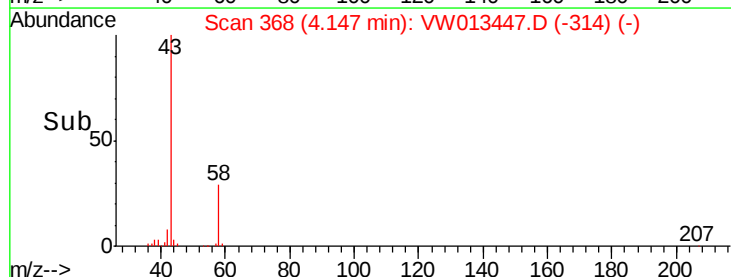
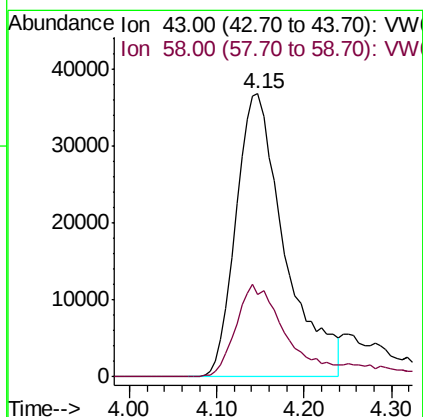
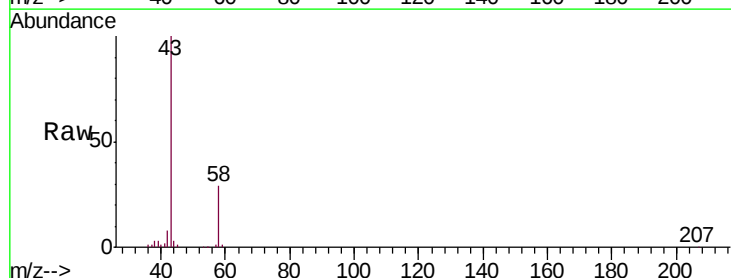
Acq: 04 Oct 2019 18:46

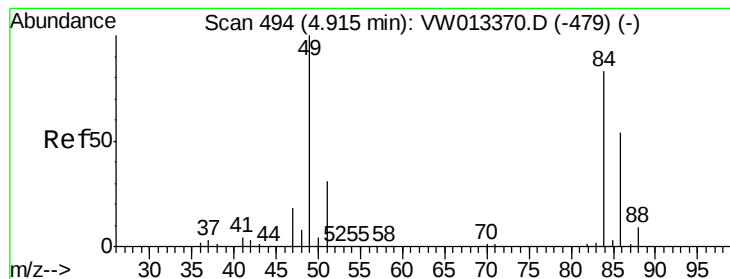
Tgt Ion: 43 Resp: 143278

Ion Ratio Lower Upper

43 100

58 29.2 24.1 36.1





#20

Methylene Chloride

Concen: 2.207 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW013447.D

Acq: 04 Oct 2019 18:46

Instrument :

MSVOA_W

ClientSampleId :

S-2(5-10)

Tgt Ion: 84 Resp: 12505

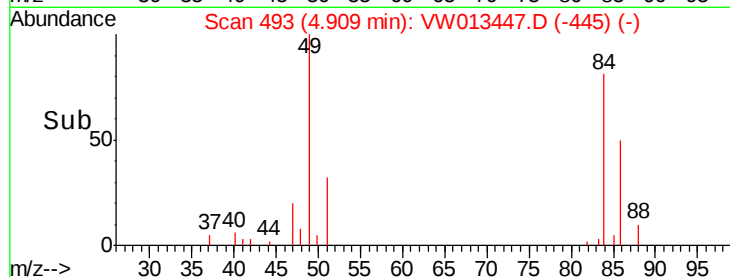
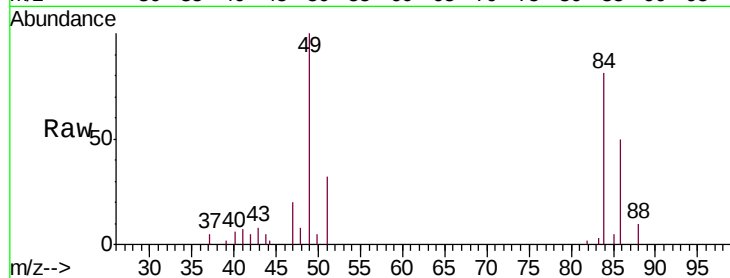
Ion Ratio Lower Upper

84 100

49 123.0 97.6 146.4

51 39.8 30.2 45.2

86 61.4 50.6 76.0

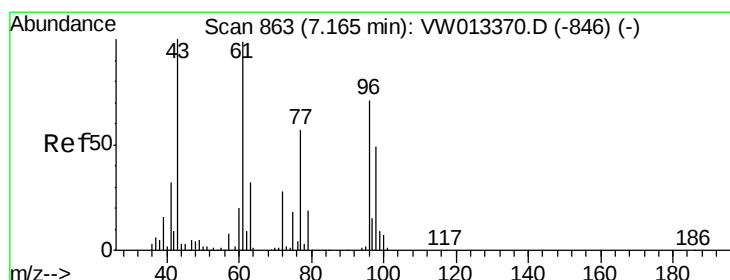
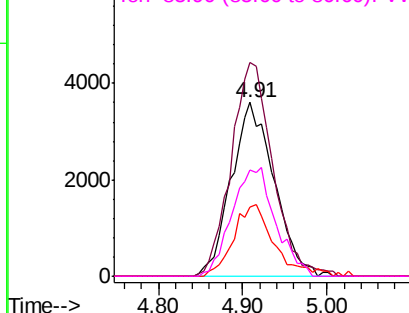


Abundance Ion 83.90 (83.60 to 84.60): VW

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: 4.543 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW013447.D

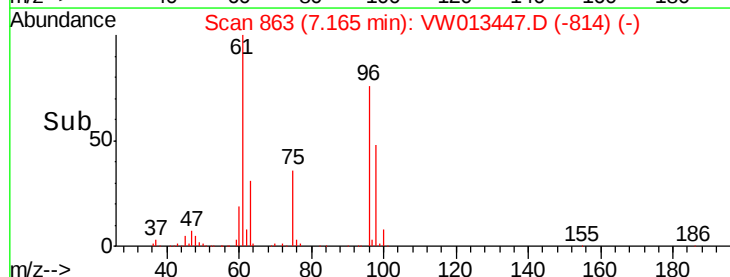
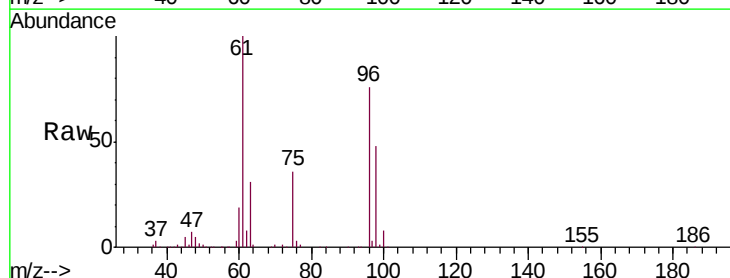
Acq: 04 Oct 2019 18:46

Tgt Ion: 43 Resp: 4444

Ion Ratio Lower Upper

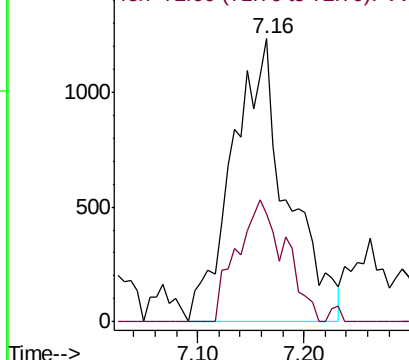
43 100

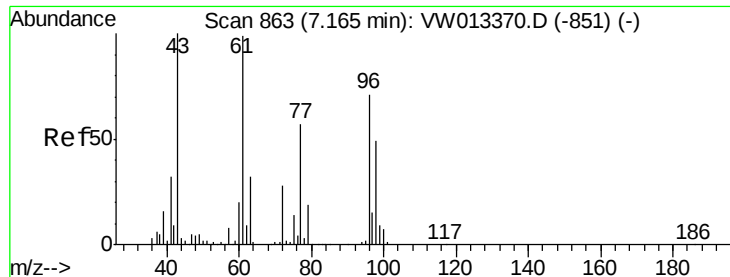
72 38.0 19.4 29.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



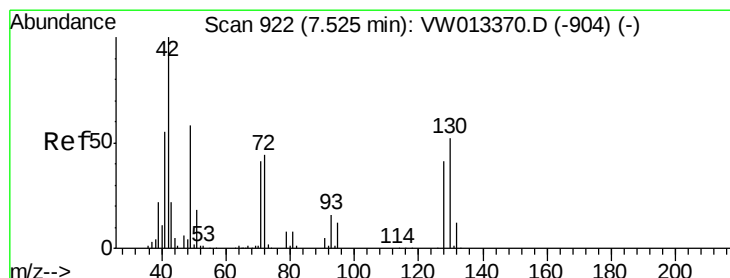
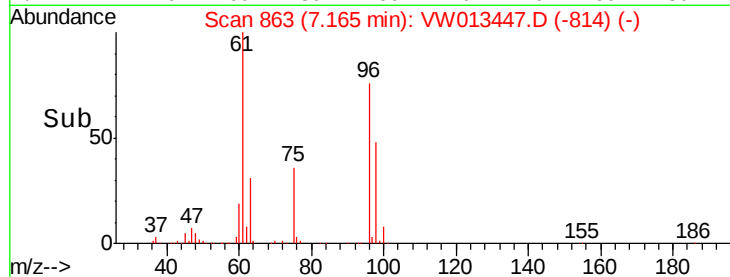
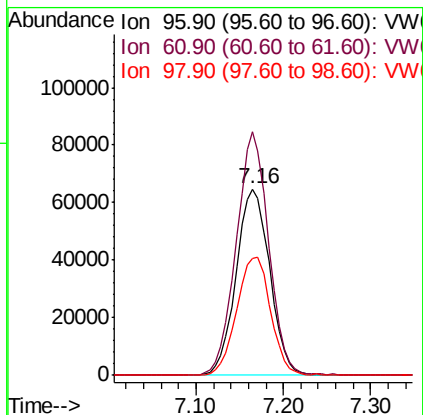
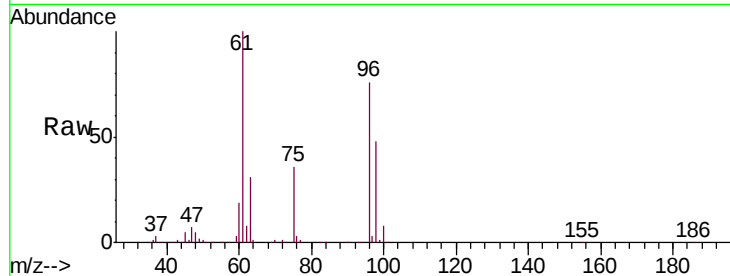


#27

cis-1,2-Dichloroethene
 Concen: 50.468 ug/l
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW013447.D
 Acq: 04 Oct 2019 18:46

Instrument :
 MSVOA_W
 ClientSampled :
 S-2(5-10)

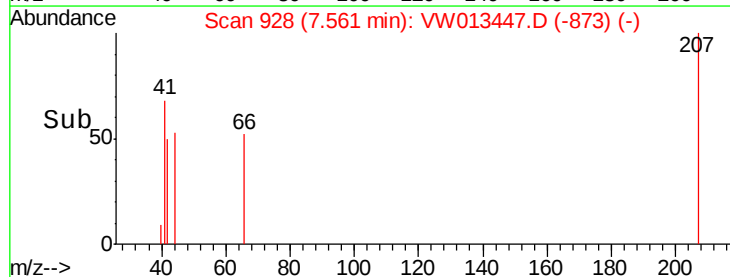
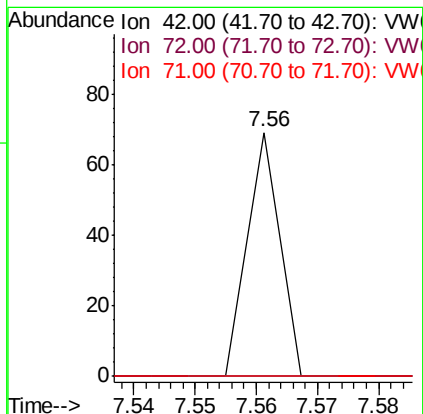
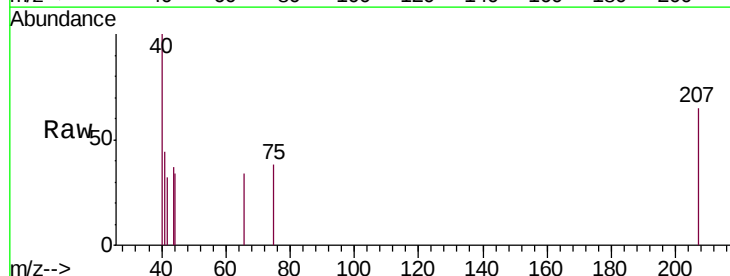
Tgt Ion: 96 Resp: 172968
 Ion Ratio Lower Upper
 96 100
 61 126.1 0.0 282.4
 98 64.1 0.0 128.2

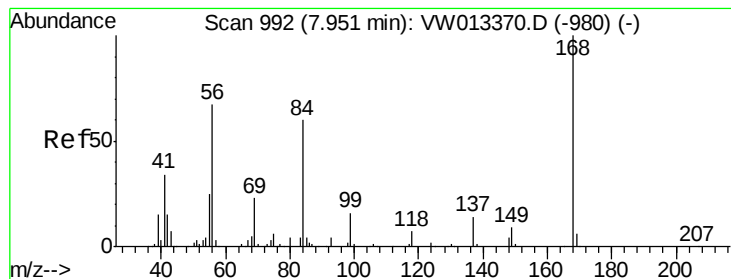


#29

Tetrahydrofuran
 Concen: 9.736 ug/l
 RT: 7.56 min Scan# 928
 Delta R.T. 0.04 min
 Lab File: VW013447.D
 Acq: 04 Oct 2019 18:46

Tgt Ion: 42 Resp: 25
 Ion Ratio Lower Upper
 42 100
 72 0.0 33.9 50.9#
 71 0.0 31.9 47.9#





#31

Cyclohexane

Concen: 1.026 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW013447.D

Acq: 04 Oct 2019 18:46

Instrument :

MSVOA_W

ClientSampleId :

S-2(5-10)

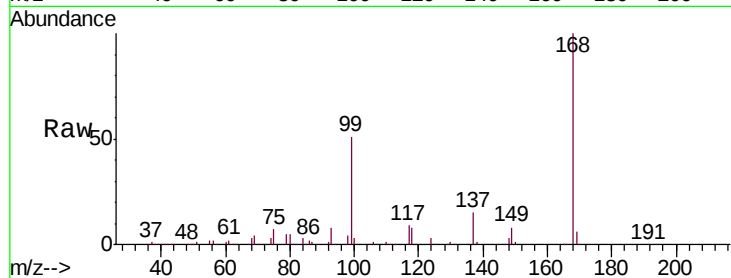
Tgt Ion: 56 Resp: 5856

Ion Ratio Lower Upper

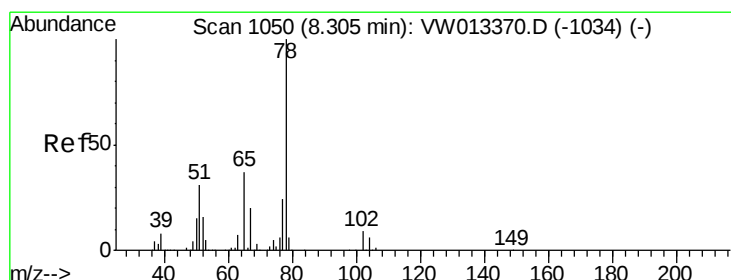
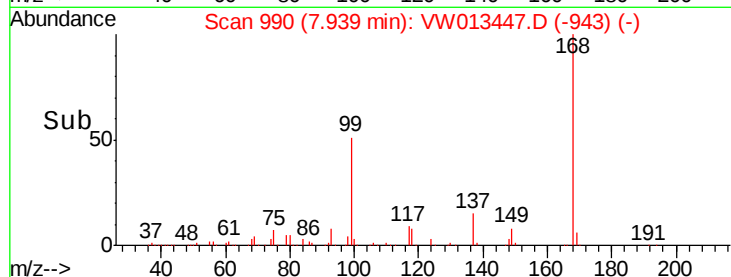
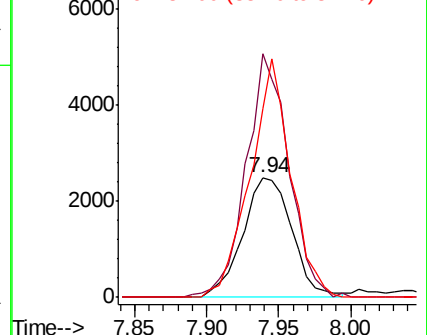
56 100

69 200.6 27.2 40.8#

84 157.1 70.8 106.2#



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: 50.250 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013447.D

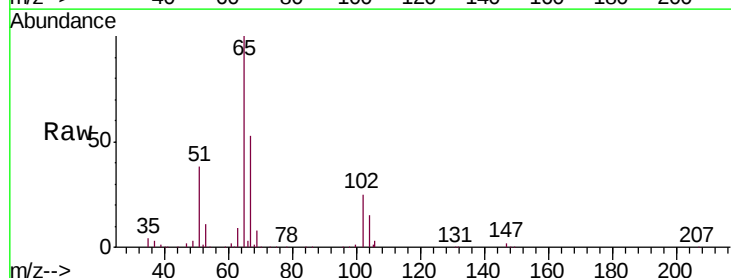
Acq: 04 Oct 2019 18:46

Tgt Ion: 65 Resp: 125318

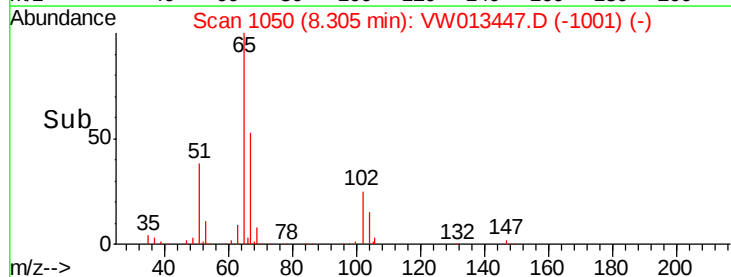
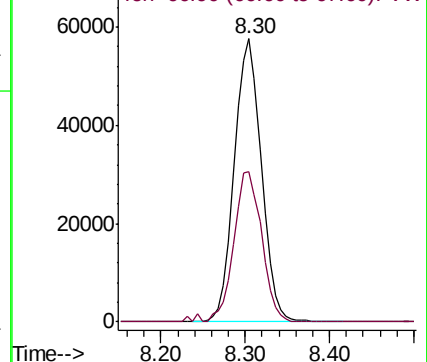
Ion Ratio Lower Upper

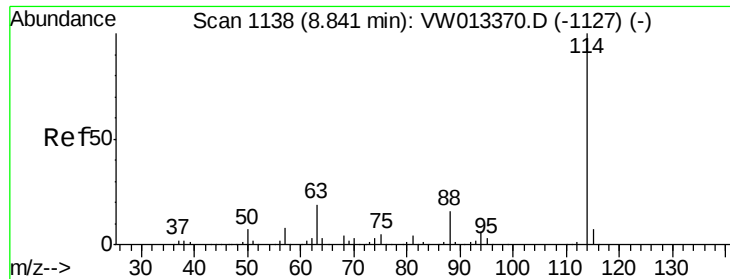
65 100

67 54.5 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

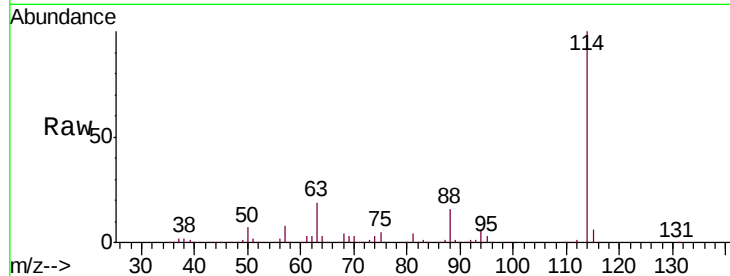




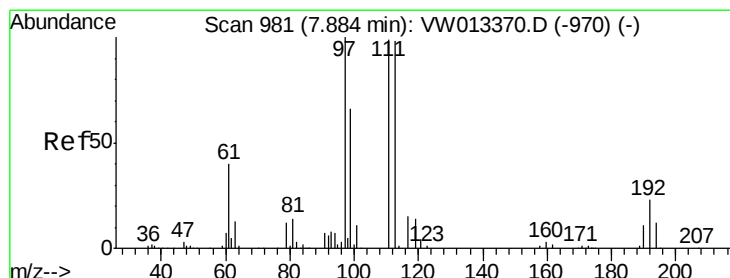
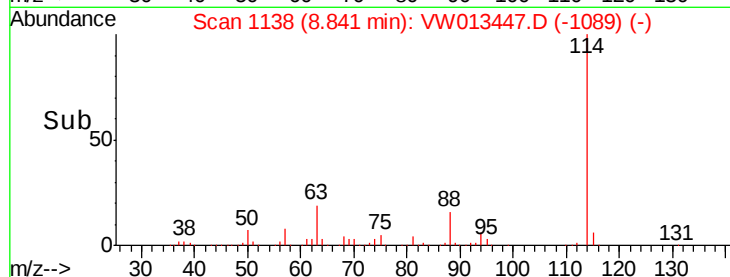
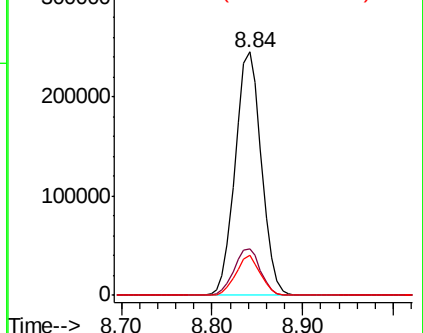
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013447.D
 Acq: 04 Oct 2019 18:46

Instrument :
 MSVOA_W
 ClientSampleId :
 S-2(5-10)

Tgt Ion:114 Resp: 490580
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 41.4
 88 16.3 0.0 32.0

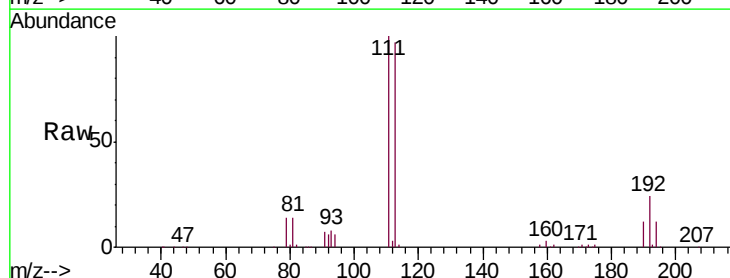


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

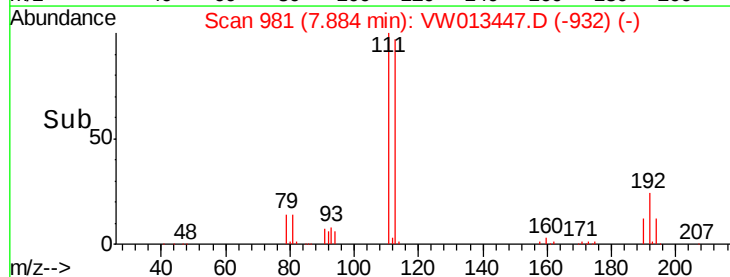
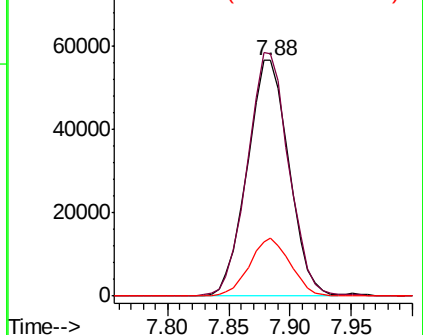


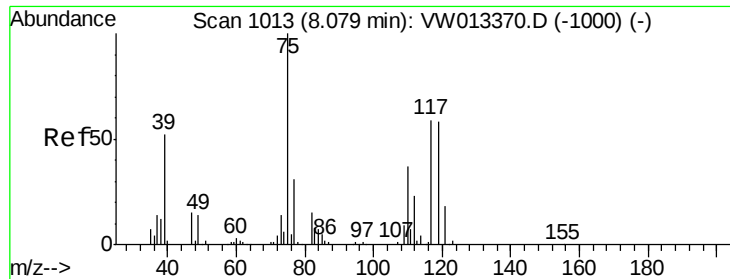
#35
 Dibromofluoromethane
 Concen: 52.213 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW013447.D
 Acq: 04 Oct 2019 18:46

Tgt Ion:113 Resp: 134407
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.9 122.9
 192 23.9 19.1 28.7



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

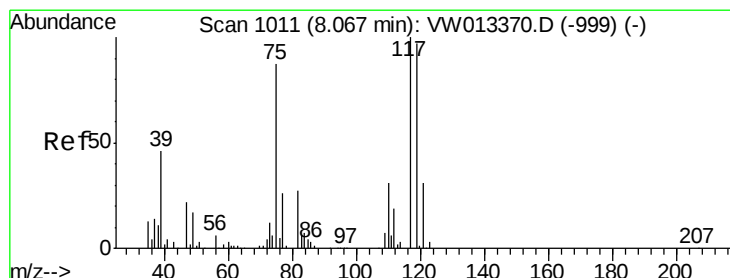
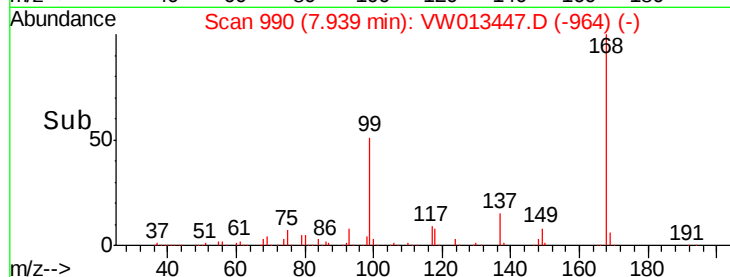
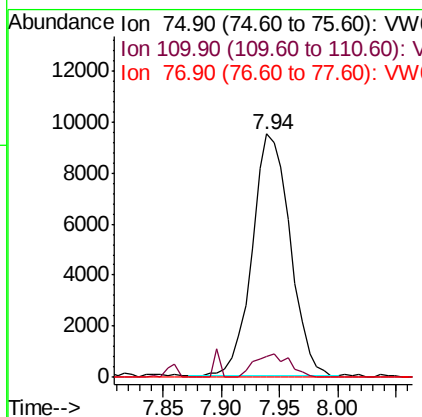
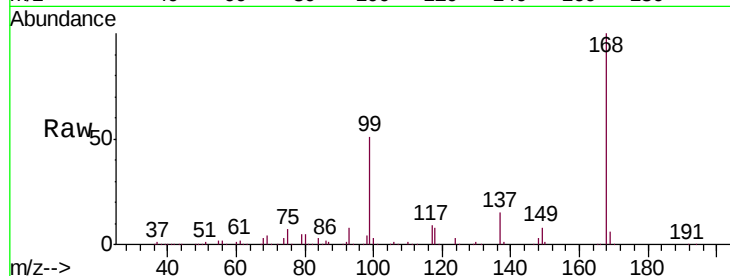




#36
 1,1-Dichloropropene
 Concen: 4.710 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013447.D
 Acq: 04 Oct 2019 18:46

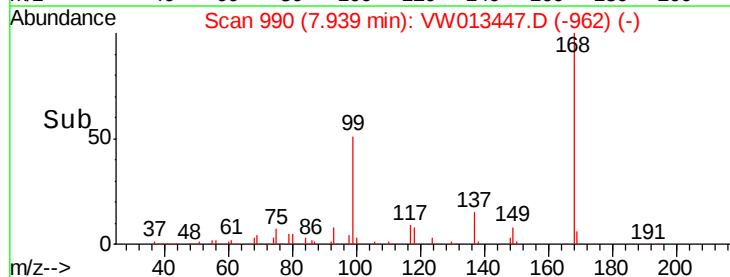
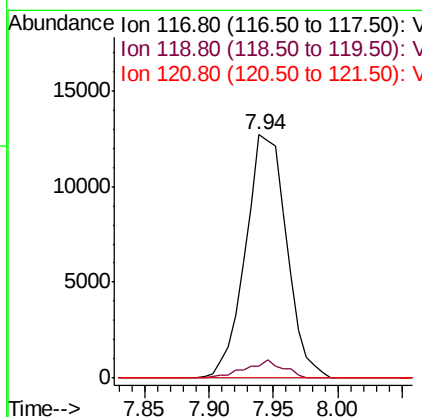
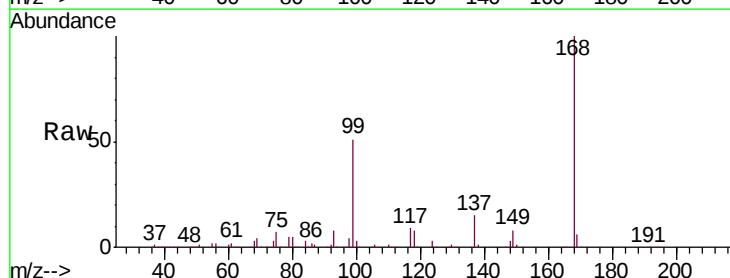
Instrument :
 MSVOA_W
 ClientSampleId :
 S-2(5-10)

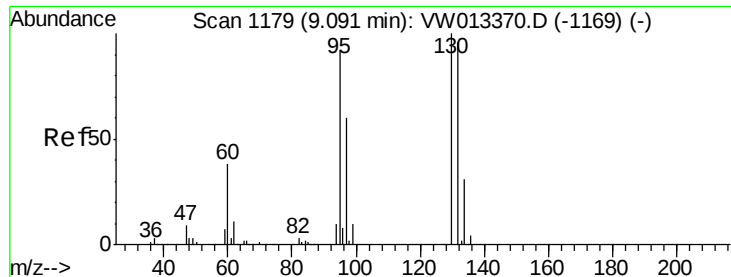
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.3#
77	0.0	25.8	38.6#



#38
 Carbon Tetrachloride
 Concen: 7.133 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.13 min
 Lab File: VW013447.D
 Acq: 04 Oct 2019 18:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	73.5	110.3#
121	0.0	25.0	37.6#





#44

Trichloroethene

Concen: 4.793 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW013447.D

Acq: 04 Oct 2019 18:46

Instrument :

MSVOA_W

ClientSampled :

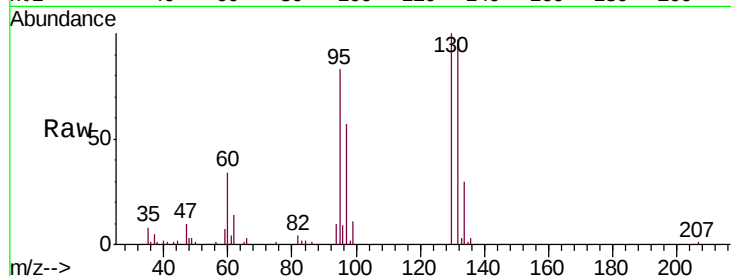
S-2(5-10)

Tgt Ion:130 Resp: 17409

Ion Ratio Lower Upper

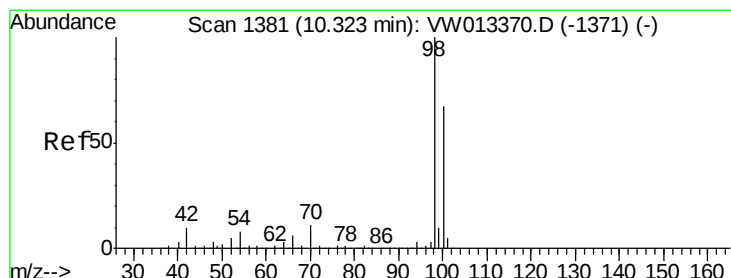
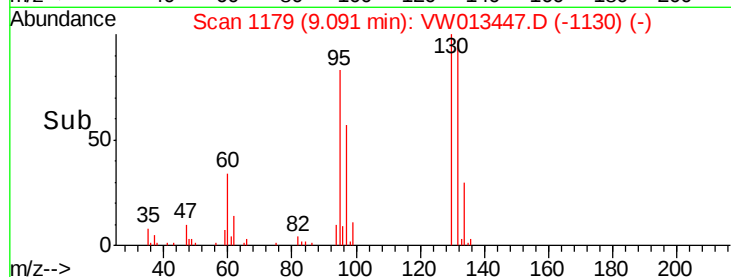
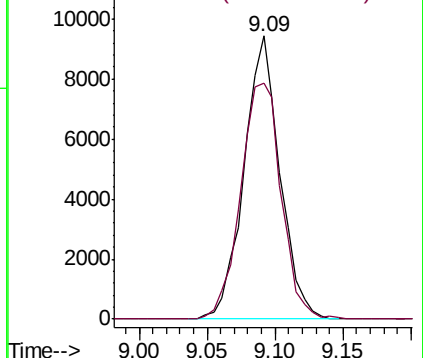
130 100

95 83.4 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VW

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 53.058 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013447.D

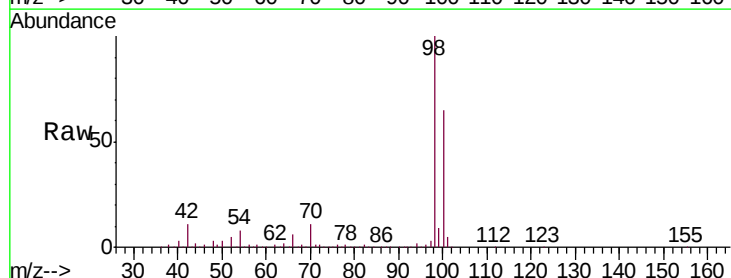
Acq: 04 Oct 2019 18:46

Tgt Ion: 98 Resp: 566789

Ion Ratio Lower Upper

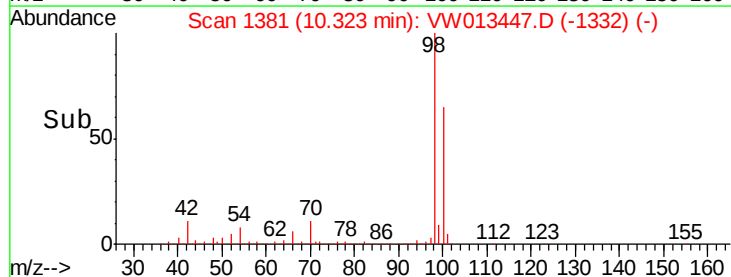
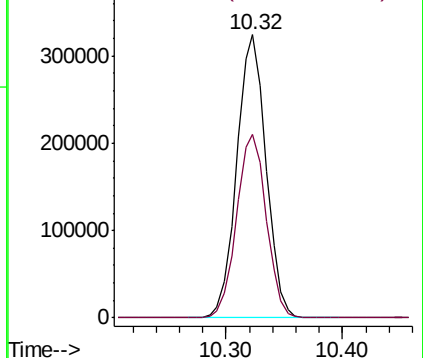
98 100

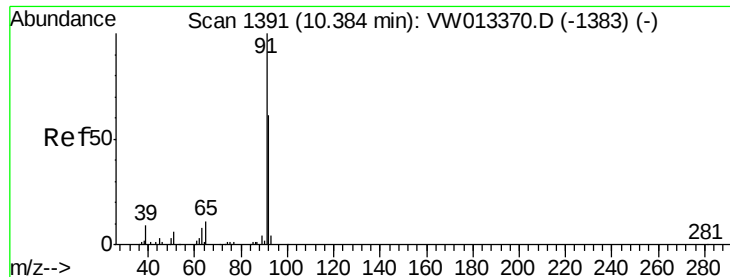
100 65.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.793 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013447.D

Acq: 04 Oct 2019 18:46

Instrument :

MSVOA_W

ClientSampleId :

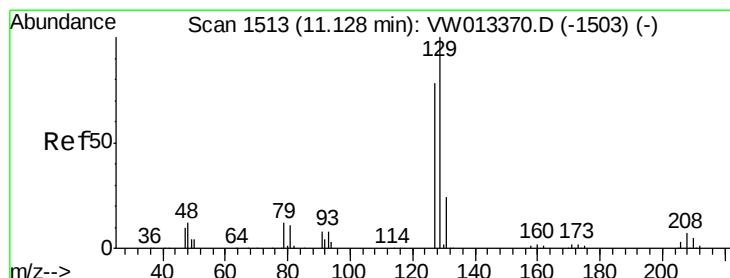
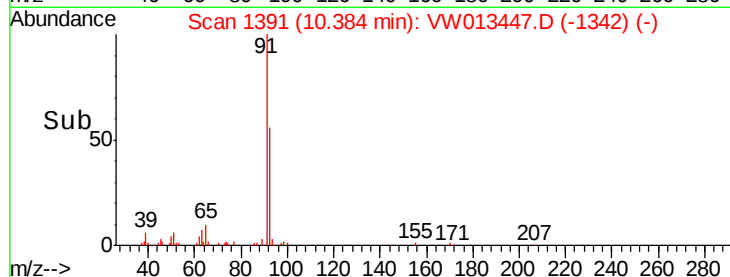
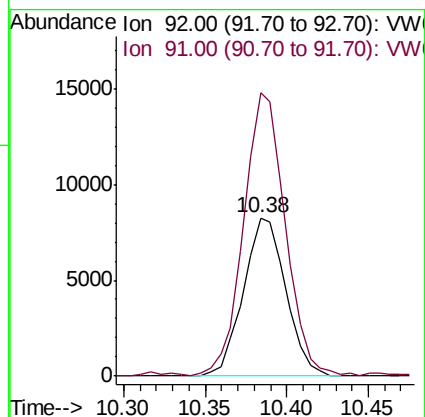
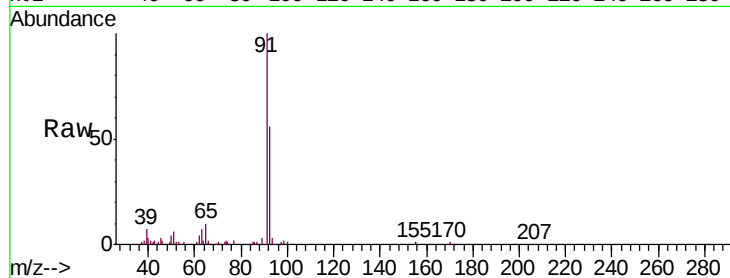
S-2(5-10)

Tgt Ion: 92 Resp: 14919

Ion Ratio Lower Upper

92 100

91 176.1 135.7 203.5



#60

Dibromochloromethane

Concen: 9.376 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW013447.D

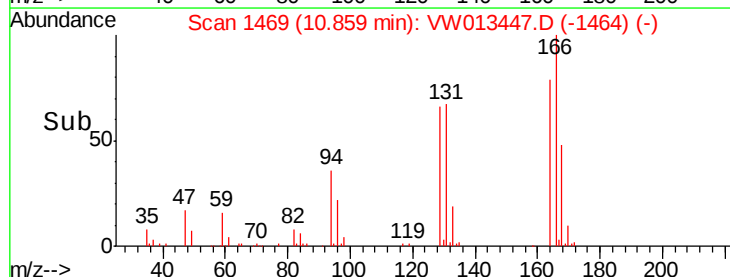
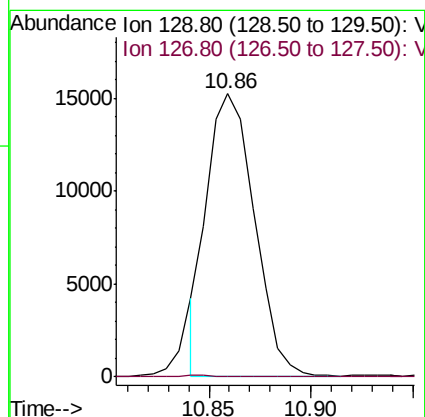
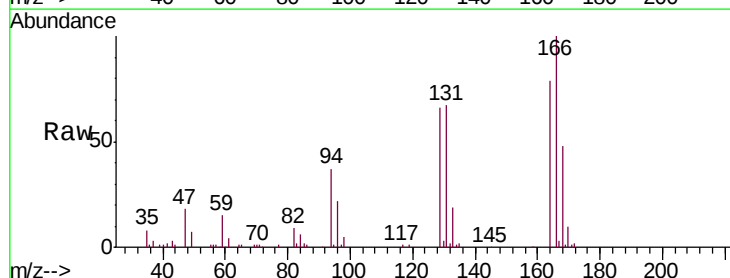
Acq: 04 Oct 2019 18:46

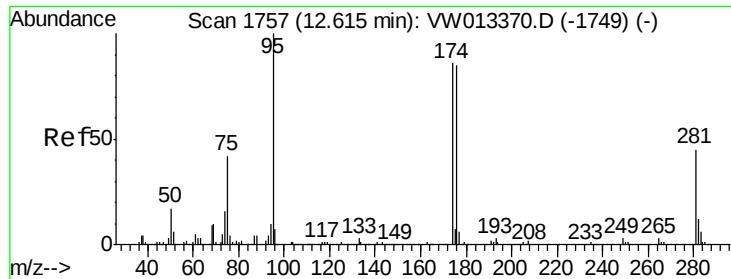
Tgt Ion: 129 Resp: 24682

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#

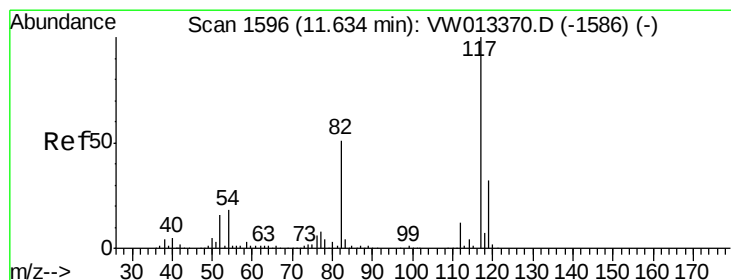
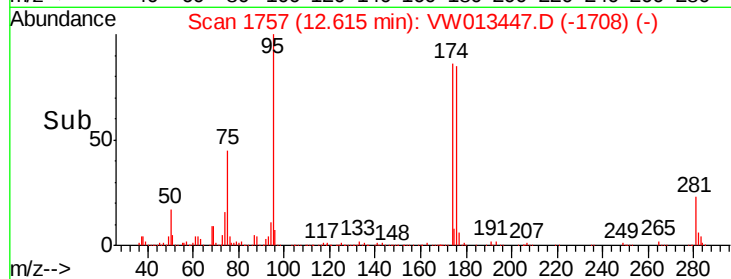
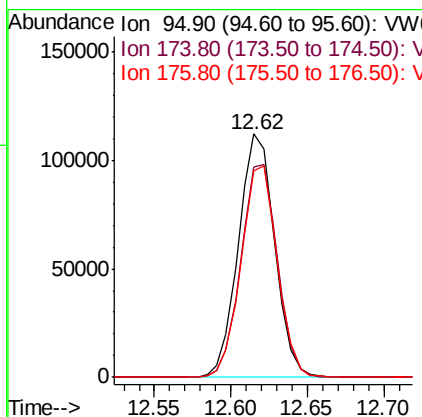
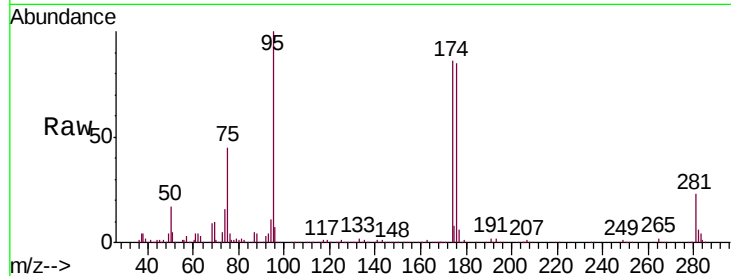




#62
4-Bromofluorobenzene
Concen: 51.421 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013447.D
Acq: 04 Oct 2019 18:46

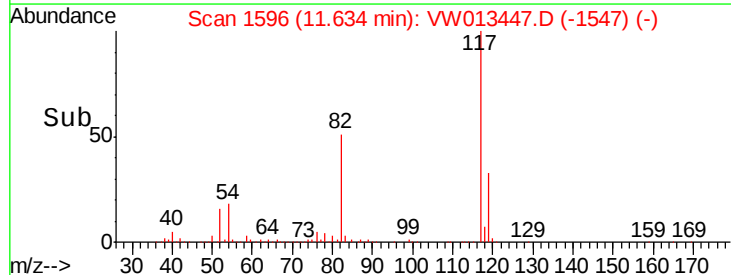
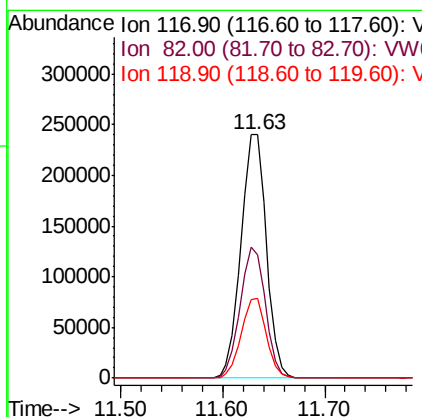
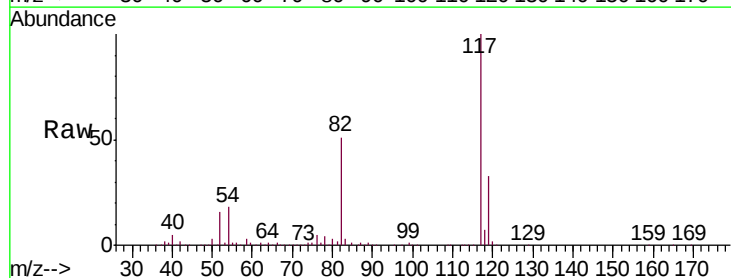
Instrument :
MSVOA_W
ClientSampled :
S-2(5-10)

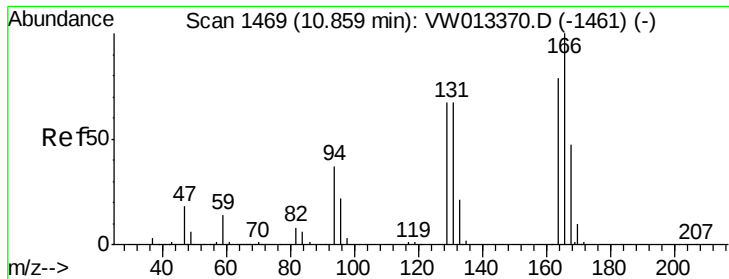
Tgt Ion: 95 Resp: 183432
Ion Ratio Lower Upper
95 100
174 89.1 0.0 178.4
176 87.1 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW013447.D
Acq: 04 Oct 2019 18:46

Tgt Ion: 117 Resp: 416215
Ion Ratio Lower Upper
117 100
82 50.8 45.9 68.9
119 32.9 26.2 39.2





#64

Tetrachloroethene

Concen: 9.882 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013447.D

Acq: 04 Oct 2019 18:46

Instrument :

MSVOA_W

ClientSampleId :

S-2(5-10)

Tgt Ion:164 Resp: 31290

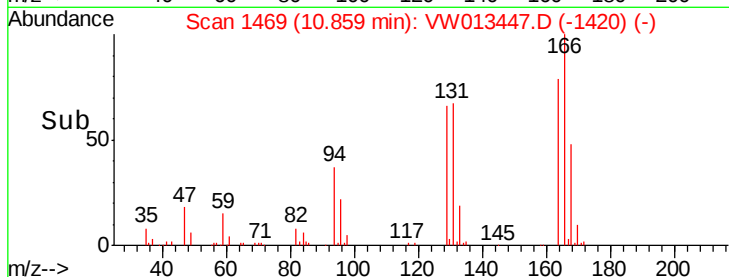
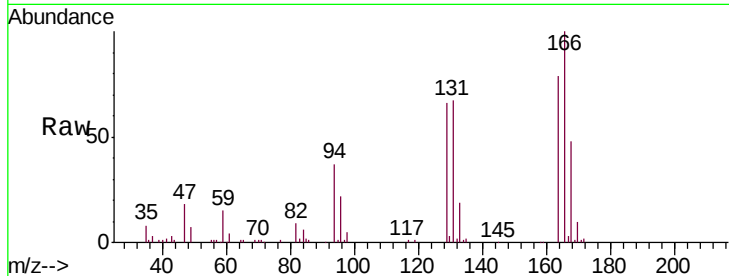
Ion Ratio Lower Upper

164 100

166 126.8 101.2 151.8

129 84.1 68.8 103.2

131 85.5 65.2 97.8

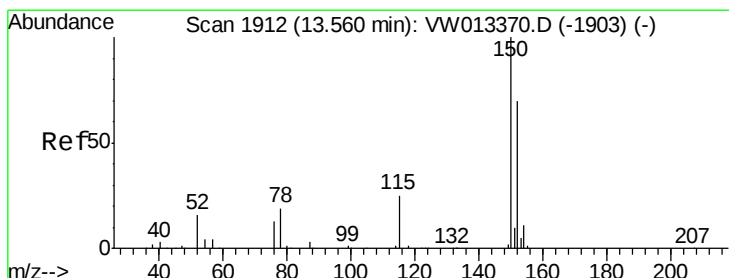
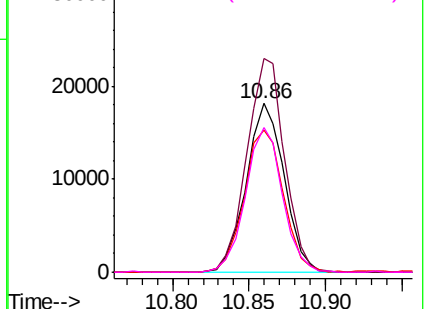


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VW013447.D

Acq: 04 Oct 2019 18:46

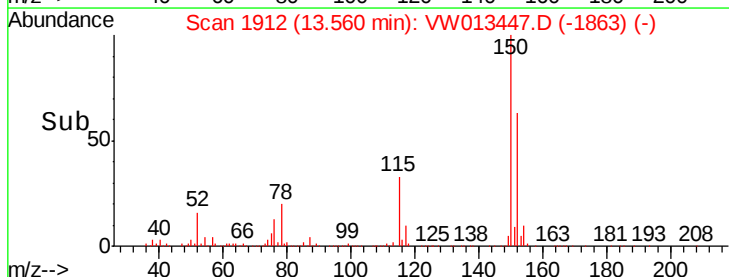
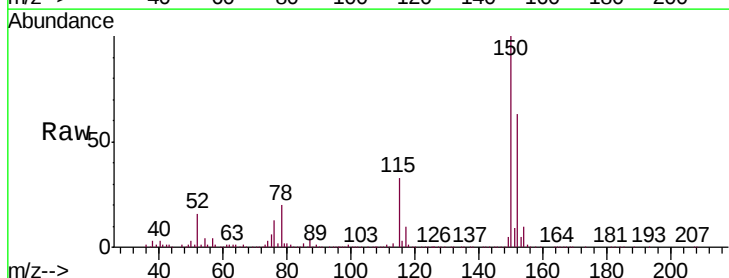
Tgt Ion:152 Resp: 189811

Ion Ratio Lower Upper

152 100

115 54.4 27.3 81.9

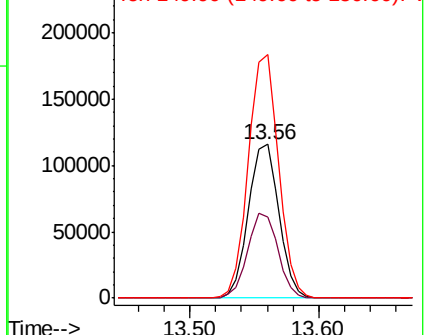
150 156.4 0.0 349.0

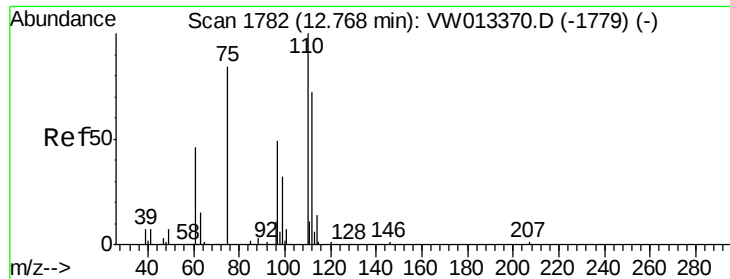


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

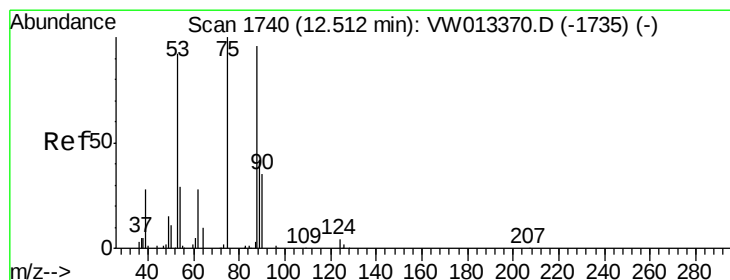
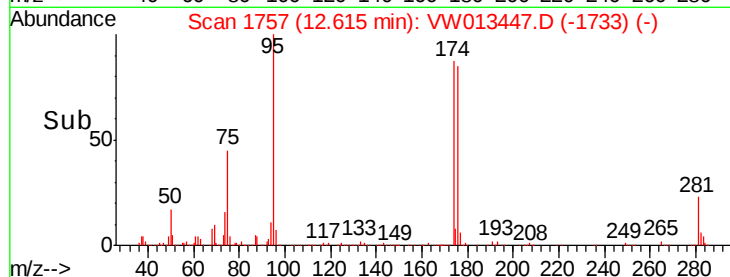
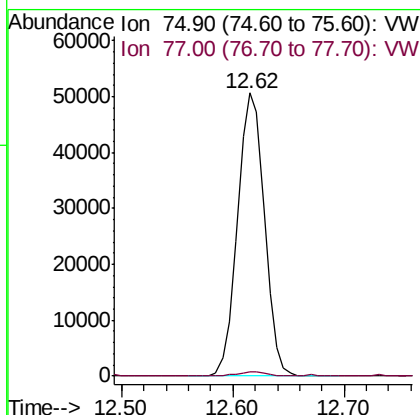
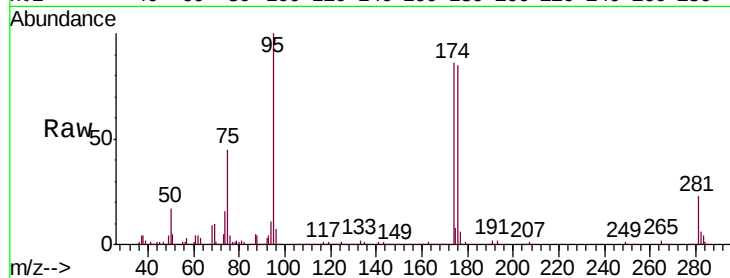




#76
 1,2,3-Trichloropropane
 Concen: 50.135 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW013447.D
 Acq: 04 Oct 2019 18:46

Instrument :
 MSVOA_W
 ClientSampled :
 S-2(5-10)

Tgt Ion: 75 Resp: 84577
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 101.856 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW013447.D
 Acq: 04 Oct 2019 18:46

Tgt Ion: 75 Resp: 84577
 Ion Ratio Lower Upper
 75 100
 53 0.4 76.6 114.8#
 89 0.4 33.5 50.3#

