

Data File : VW013437.D
Acq On : 04 Oct 2019 14:28
Operator : SY/VA
Sample : K5213-01
Misc : 5.04G/5ML/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
S-1(0-5)

Quant Time: Oct 05 04:52:39 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	327549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	484195	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	405456	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	184073	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	132167	54.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.08%	
35) Dibromofluoromethane	7.88	113	127019	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	
50) Toluene-d8	10.32	98	565866	53.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.34%	
62) 4-Bromofluorobenzene	12.62	95	179159	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	

Target Compounds

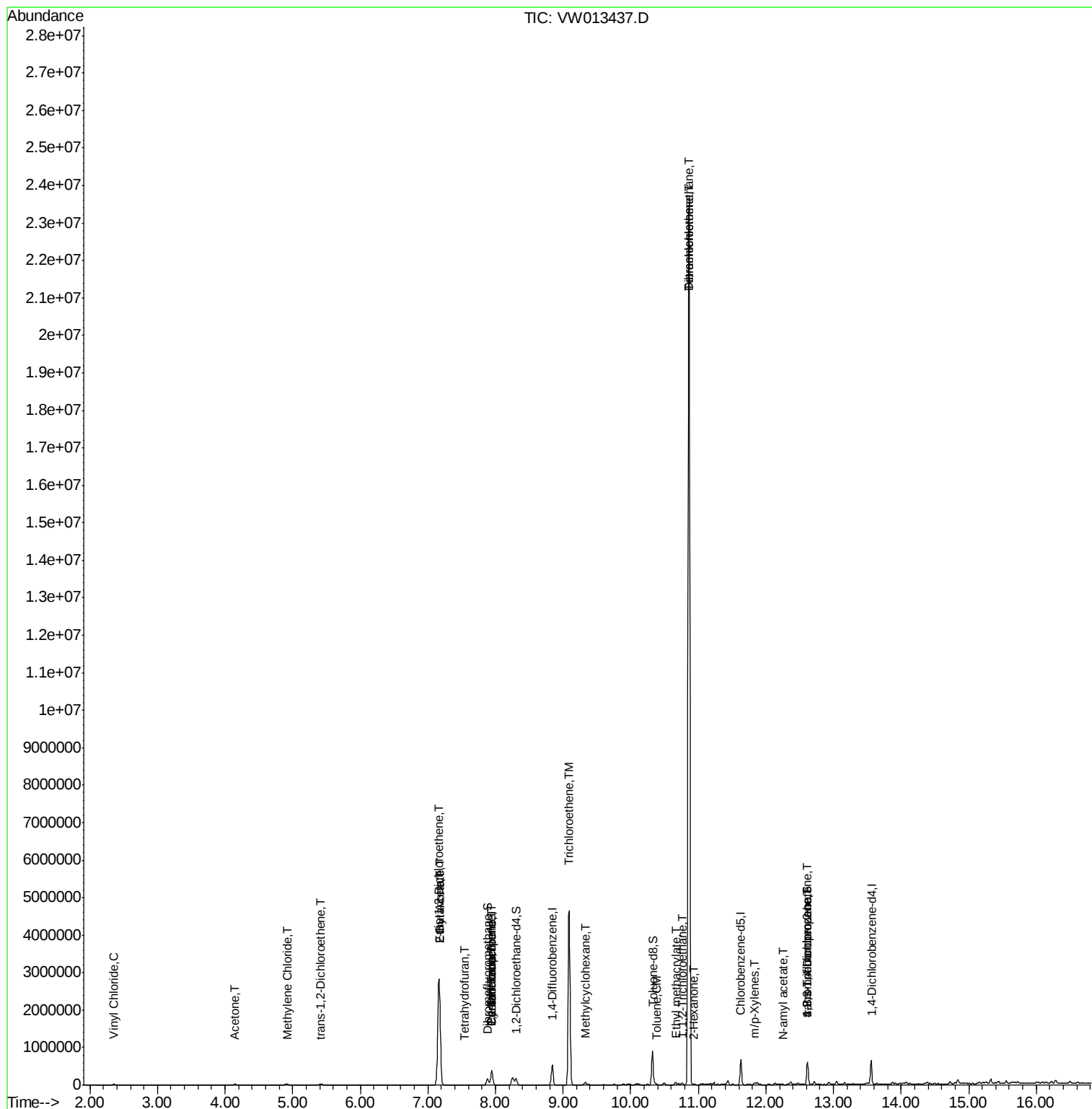
						Qvalue
4) Vinyl Chloride	2.35	62	33020	11.129	ug/l	95
11) Tert butyl alcohol	5.13	59	3179	Below Cal	#	73
16) Acetone	4.14	43	34449	45.953	ug/l	96
20) Methylene Chloride	4.91	84	21373	5.226	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	14824	4.617	ug/l	92
25) 2-Butanone	7.18	43	11561	12.052	ug/l #	1
26) 2,2-Dichloropropane	7.15	77	4067	Below Cal	#	1
27) cis-1,2-Dichloroethene	7.17	96	1803386	536.547	ug/l	90
29) Tetrahydrofuran	7.53	42	24	9.735	ug/l #	25
31) Cyclohexane	7.94	56	7346	1.313	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	20969	4.663	ug/l #	48
37) Ethyl Acetate	7.18	43	11561	5.958	ug/l #	1
38) Carbon Tetrachloride	7.95	117	28281	7.260	ug/l #	18
39) Methylcyclohexane	9.33	83	26658	4.501	ug/l	96
44) Trichloroethene	9.09	130	1767579	493.049	ug/l	97
52) Toluene	10.38	92	8675	1.056	ug/l	98
55) 1,1,2-Trichloroethane	10.76	97	22396	9.861	ug/l #	22
56) Ethyl methacrylate	10.66	69	8188	2.678	ug/l #	14
59) 2-Hexanone	10.94	43	10417	7.657	ug/l #	26
60) Dibromochloromethane	10.87	129	5114069	1968.258	ug/l #	11
64) Tetrachloroethene	10.87	164	6164766	1998.518	ug/l	99
68) m/p-Xylenes	11.83	106	10462	1.821	ug/l	89
74) N-amyl acetate	12.25	43	6292	2.196	ug/l #	48
76) 1,2,3-Trichloropropane	12.62	75	84708	51.778	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	84708	105.057	ug/l #	12

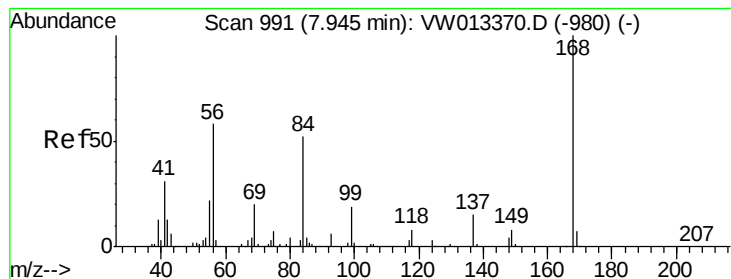
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 05 04:52:39 2019
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Quant Title : SW846 8260
QLast Update : Wed Oct 02 11:49:57 2019
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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: VW013437.D

Acq: 04 Oct 2019 14:28

Instrument :

MSVOA_W

ClientSampleId :

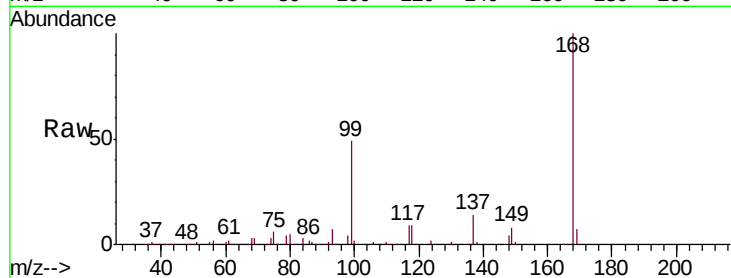
S-1(0-5)

Tgt Ion:168 Resp: 327549

Ion Ratio Lower Upper

168 100

99 48.7 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

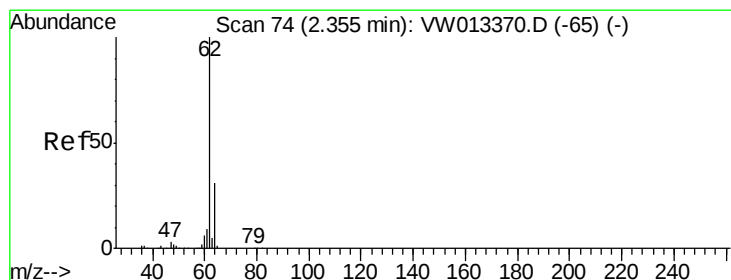
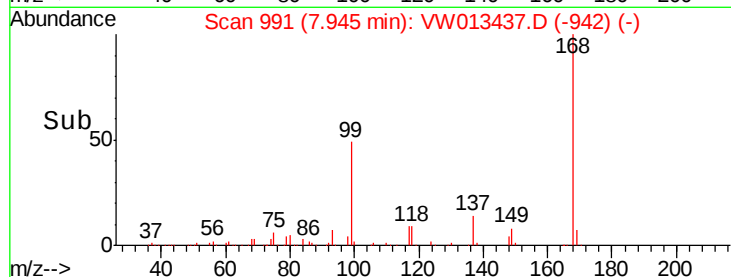
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#4

Vinyl Chloride

Concen: 11.129 ug/l

RT: 2.35 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW013437.D

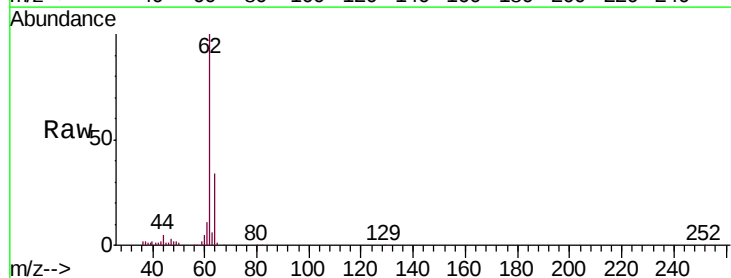
Acq: 04 Oct 2019 14:28

Tgt Ion: 62 Resp: 33020

Ion Ratio Lower Upper

62 100

64 34.5 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

20000

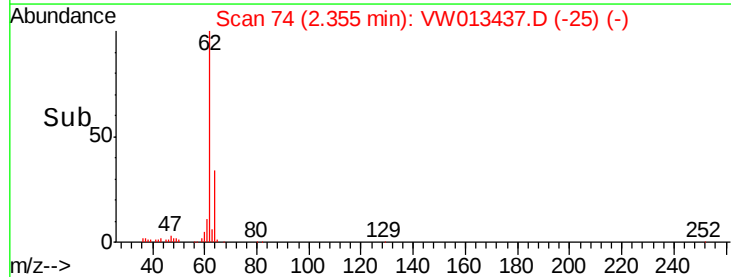
15000

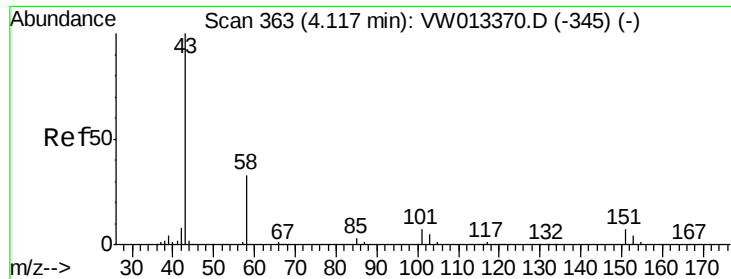
10000

5000

0

Time--> 2.25 2.30 2.35 2.40 2.45





#16

Acetone

Concen: 45.953 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

Instrument :

MSVOA_W

ClientSampled :

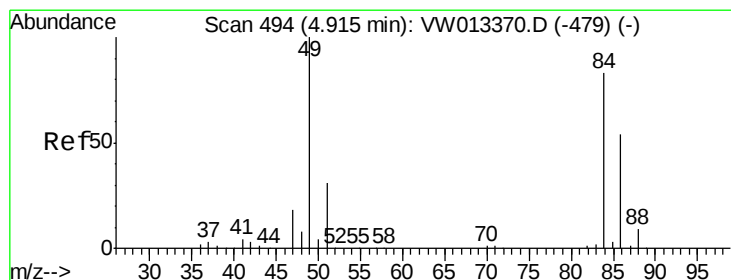
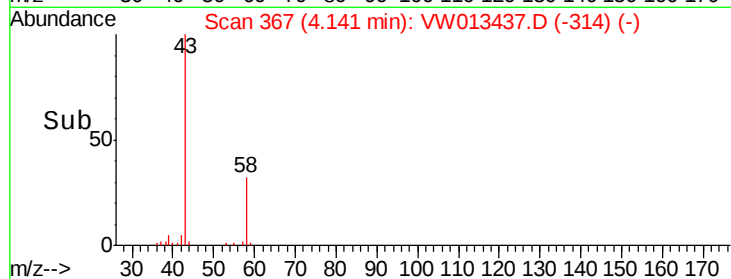
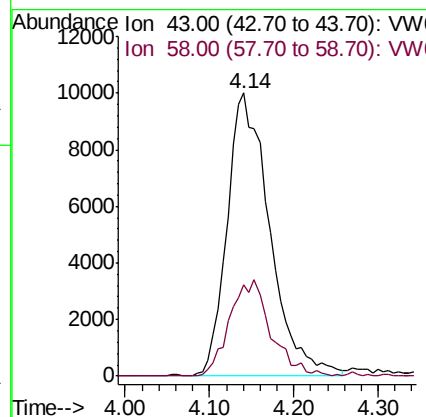
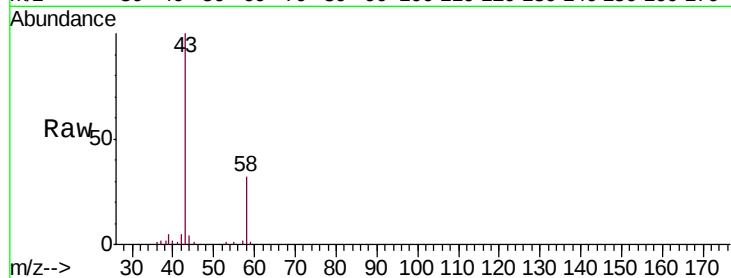
S-1(0-5)

Tgt Ion: 43 Resp: 34449

Ion Ratio Lower Upper

43 100

58 32.3 24.1 36.1



#20

Methylene Chloride

Concen: 5.226 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

Tgt Ion: 84 Resp: 21373

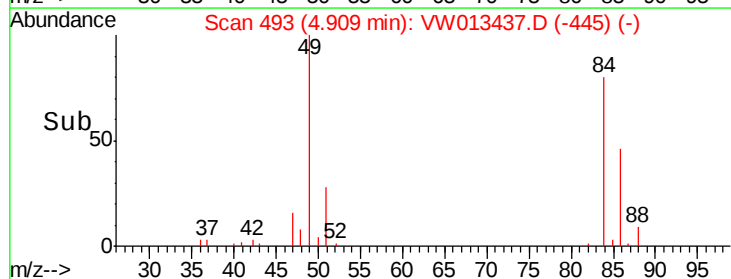
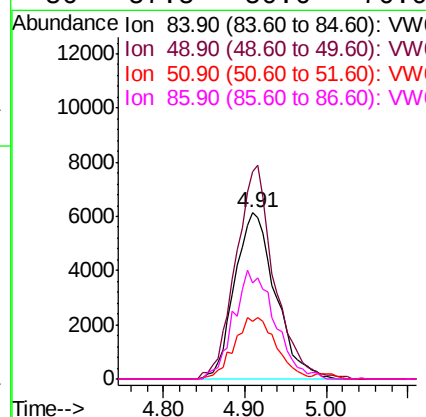
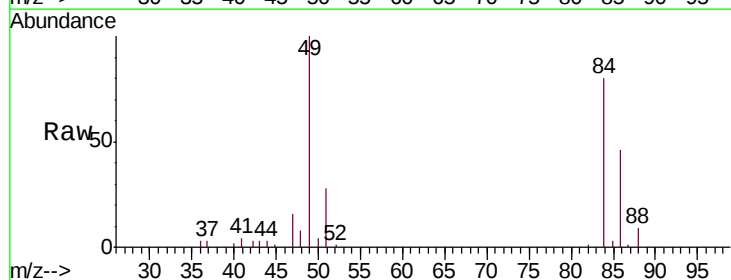
Ion Ratio Lower Upper

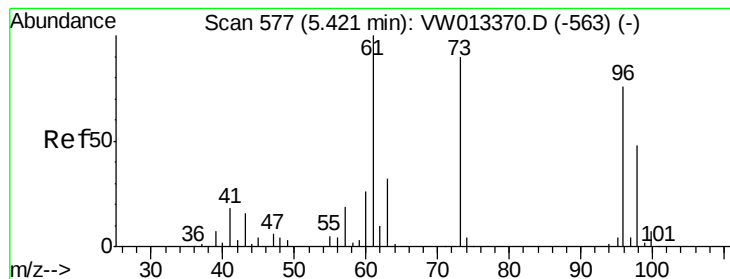
84 100

49 124.7 97.6 146.4

51 34.8 30.2 45.2

86 57.5 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 4.617 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

Instrument :

MSVOA_W

ClientSampleId :

S-1(0-5)

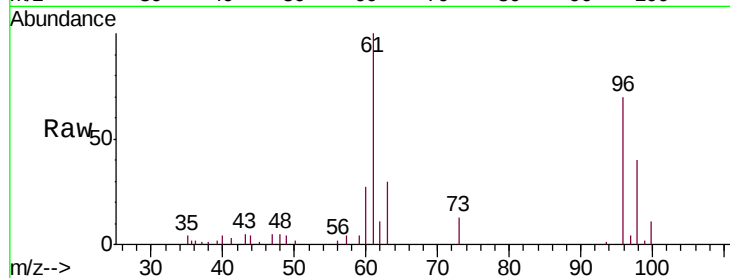
Tgt Ion: 96 Resp: 14824

Ion Ratio Lower Upper

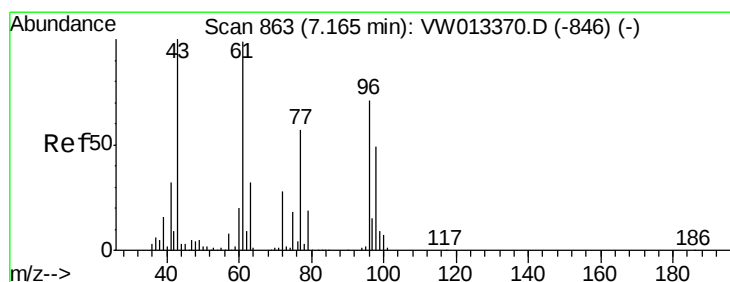
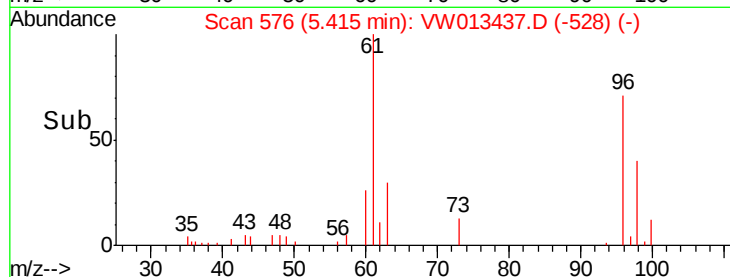
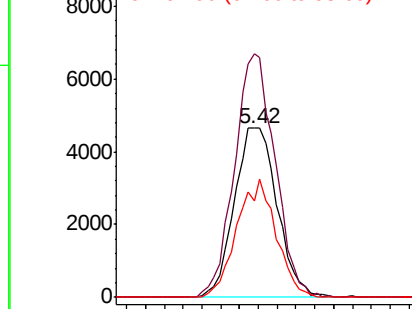
96 100

61 143.9 106.6 159.8

98 57.3 49.8 74.8



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



#25

2-Butanone

Concen: 12.052 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013437.D

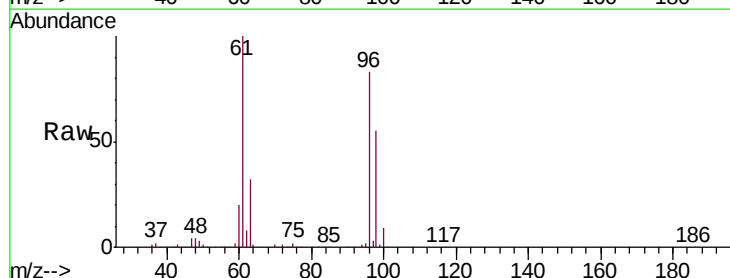
Acq: 04 Oct 2019 14:28

Tgt Ion: 43 Resp: 11561

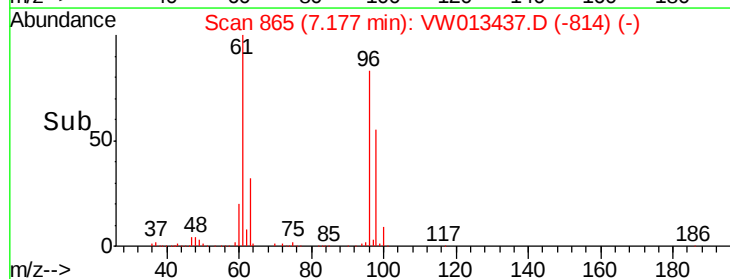
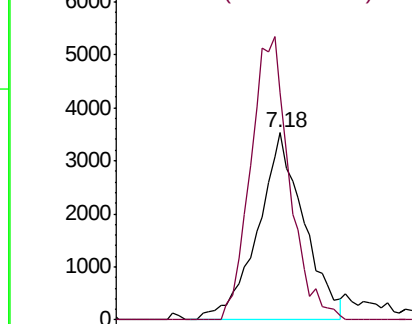
Ion Ratio Lower Upper

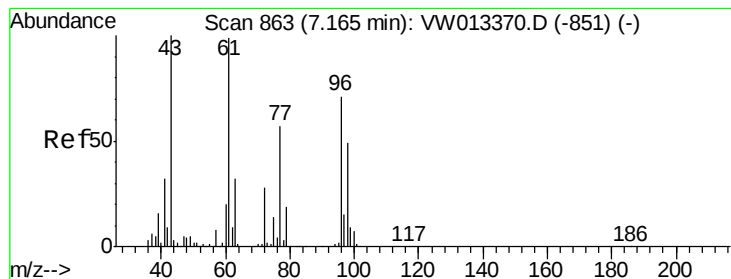
43 100

72 121.2 19.4 29.0#



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



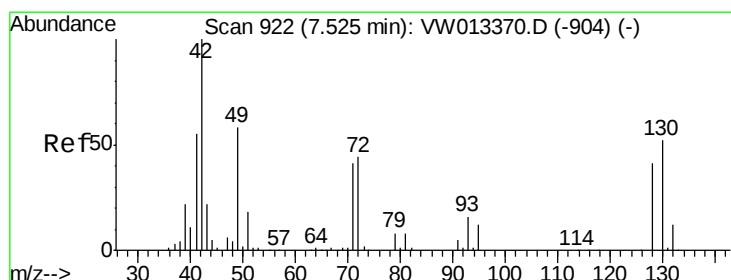
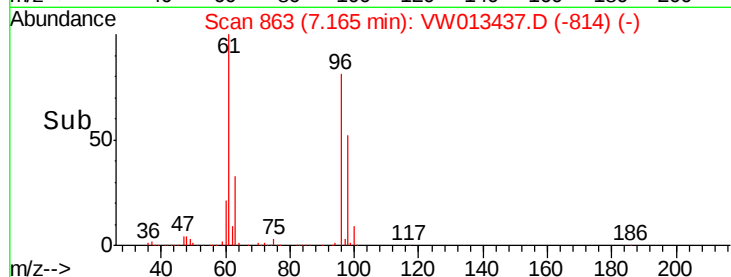
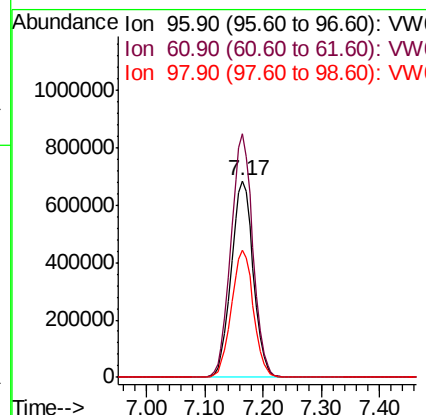
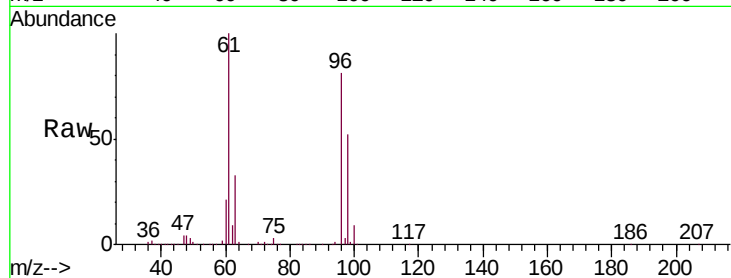


#27

cis-1,2-Dichloroethene
Concen: 536.547 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

Instrument :
MSVOA_W
ClientSampleId :
S-1(0-5)

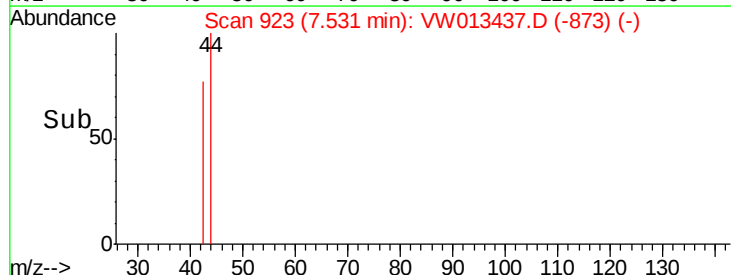
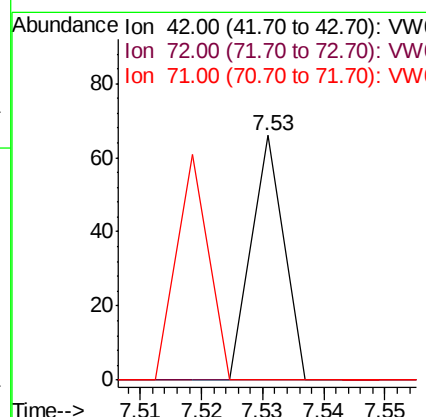
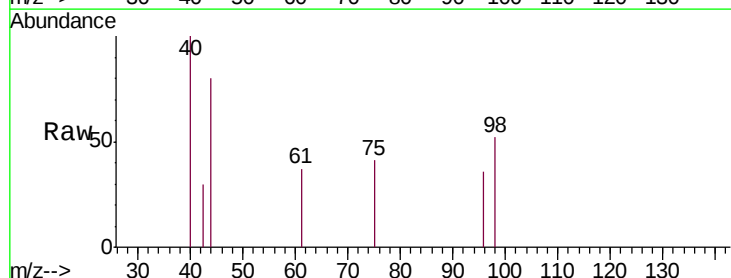
Tgt Ion: 96 Resp: 1803386
Ion Ratio Lower Upper
96 100
61 123.1 0.0 282.4
98 64.5 0.0 128.2

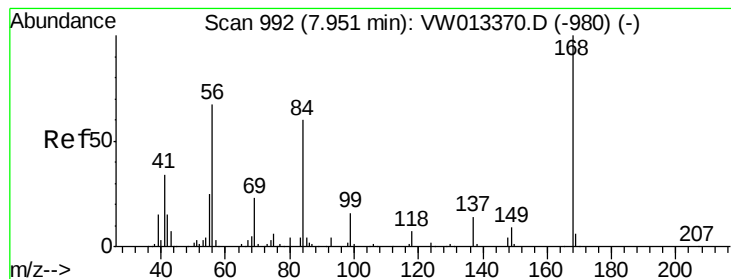


#29

Tetrahydrofuran
Concen: 9.735 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

Tgt Ion: 42 Resp: 24
Ion Ratio Lower Upper
42 100
72 0.0 33.9 50.9#
71 91.7 31.9 47.9#





#31

Cyclohexane

Concen: 1.313 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

Instrument :

MSVOA_W

ClientSampled :

S-1(0-5)

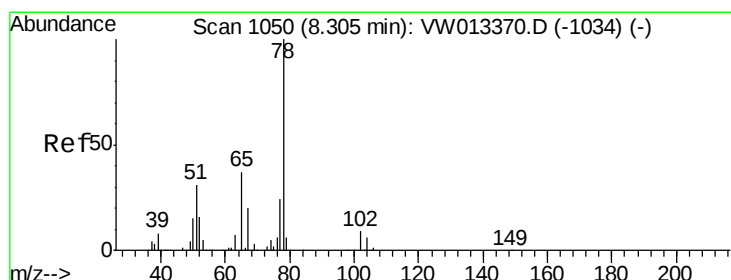
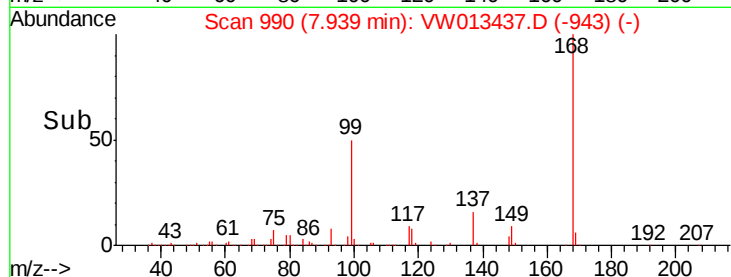
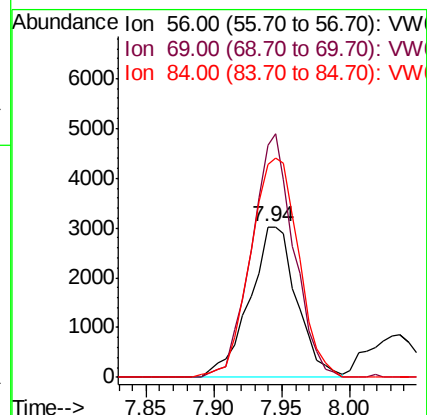
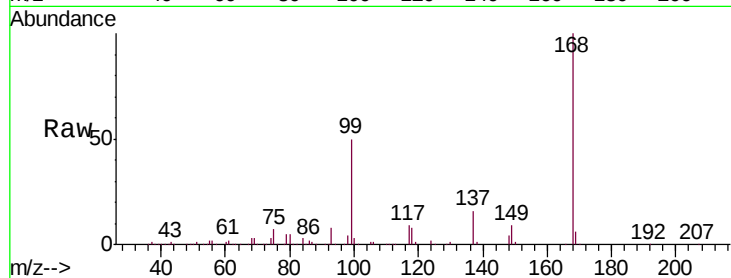
Tgt Ion: 56 Resp: 7346

Ion Ratio Lower Upper

56 100

69 154.1 27.2 40.8#

84 141.9 70.8 106.2#



#33

1,2-Dichloroethane-d4

Concen: 54.040 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013437.D

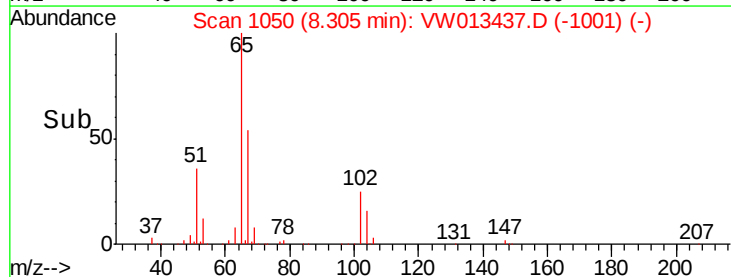
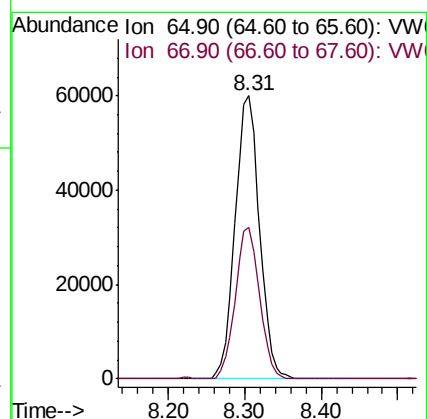
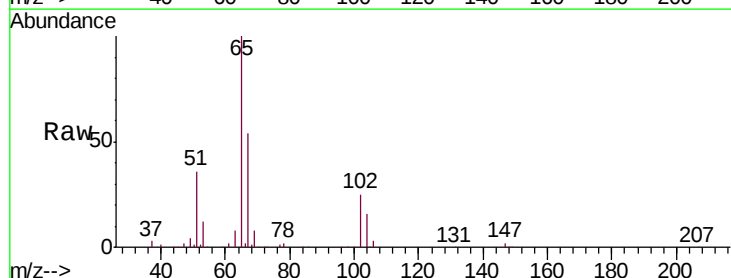
Acq: 04 Oct 2019 14:28

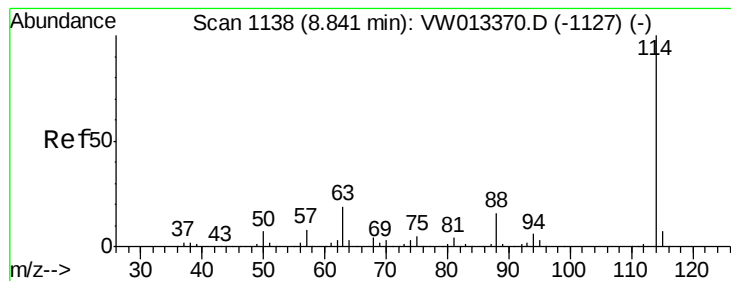
Tgt Ion: 65 Resp: 132167

Ion Ratio Lower Upper

65 100

67 53.4 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: VW013437.D

Acq: 04 Oct 2019 14:28

Instrument :

MSVOA_W

ClientSampleId :

S-1(0-5)

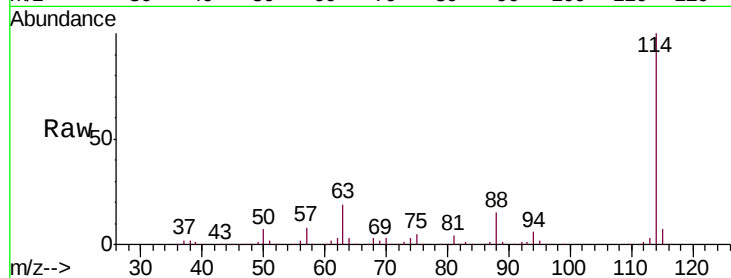
Tgt Ion:114 Resp: 484195

Ion Ratio Lower Upper

114 100

63 18.8 0.0 41.4

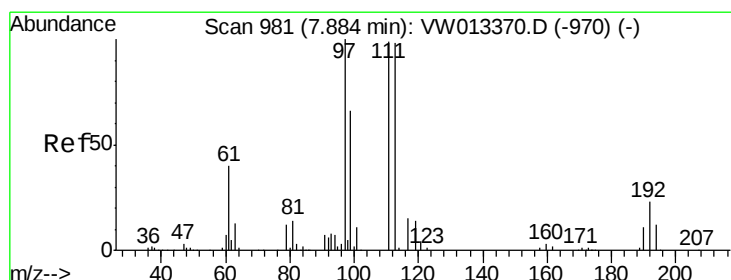
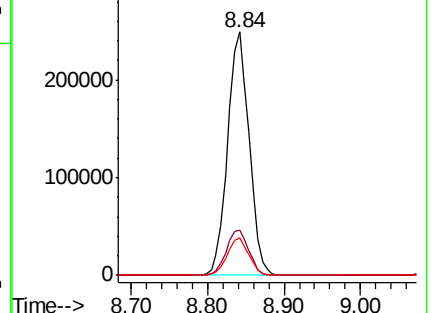
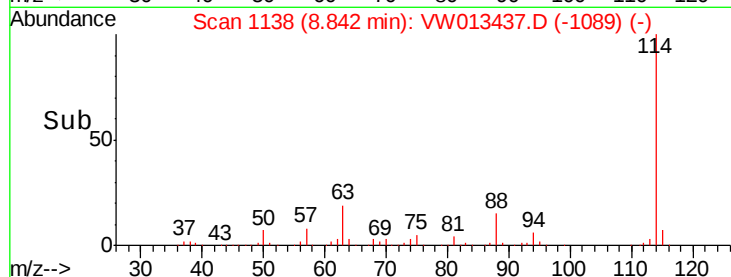
88 15.4 0.0 32.0



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: 49.994 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

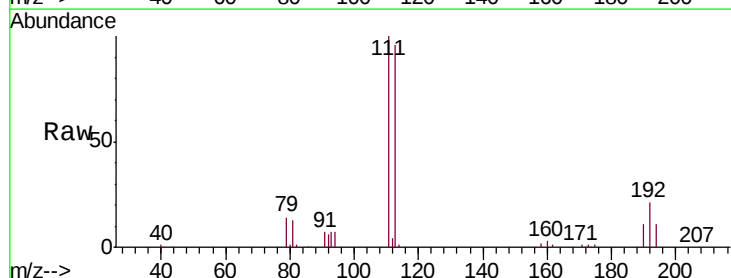
Tgt Ion:113 Resp: 127019

Ion Ratio Lower Upper

113 100

111 101.2 81.9 122.9

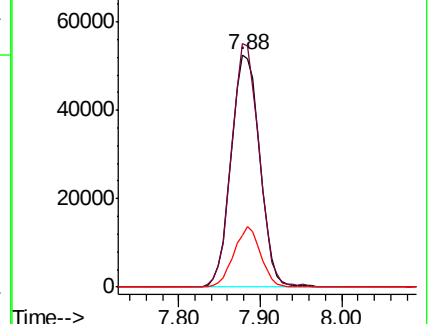
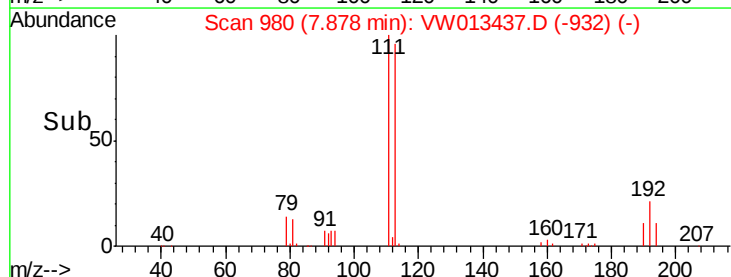
192 24.2 19.1 28.7

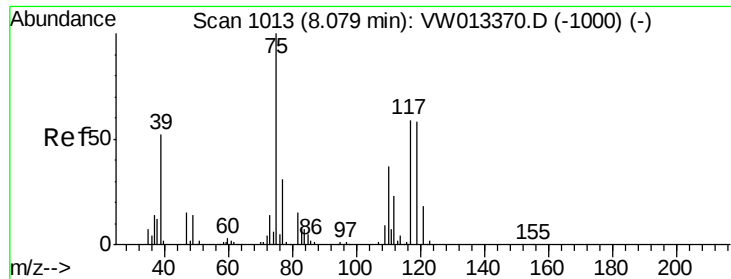


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

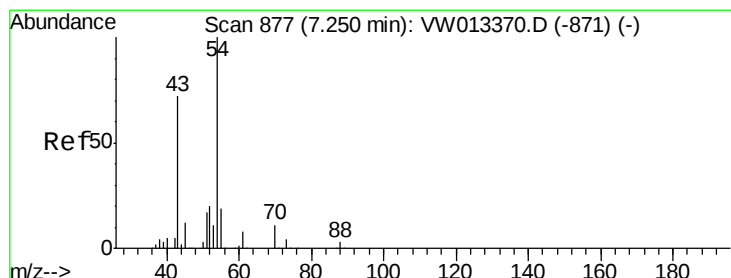
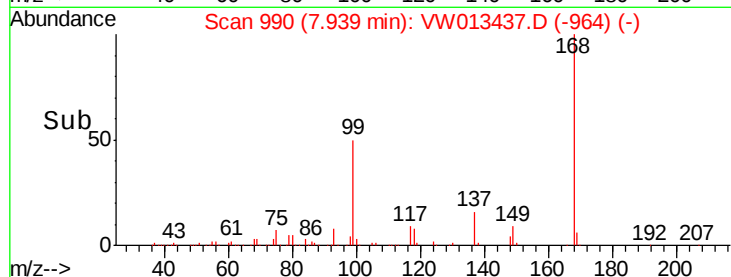
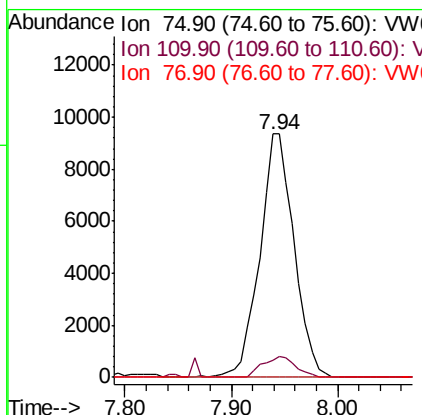
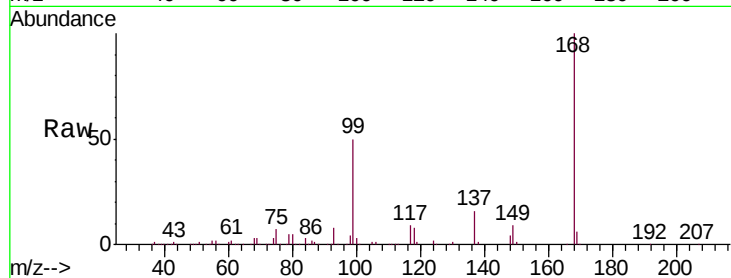




#36
 1,1-Dichloropropene
 Concen: 4.663 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013437.D
 Acq: 04 Oct 2019 14:28

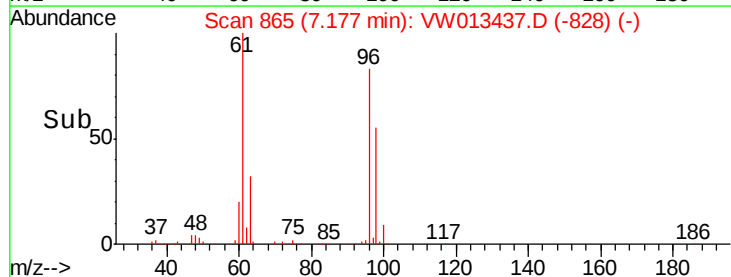
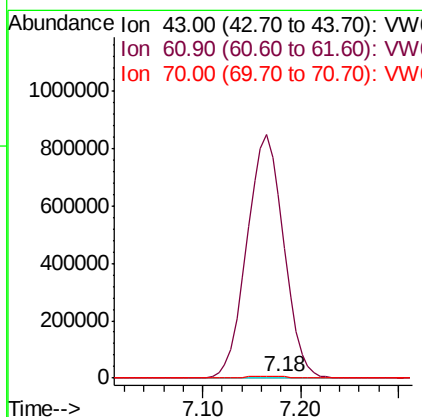
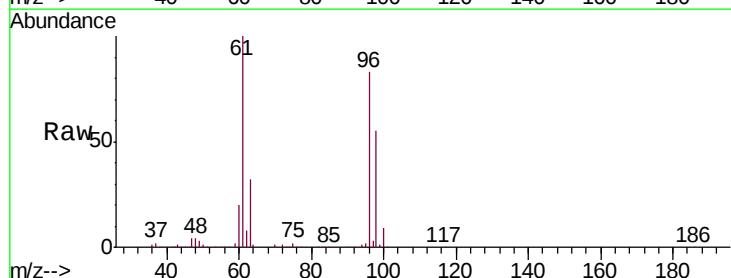
Instrument :
 MSVOA_W
 ClientSampleId :
 S-1(0-5)

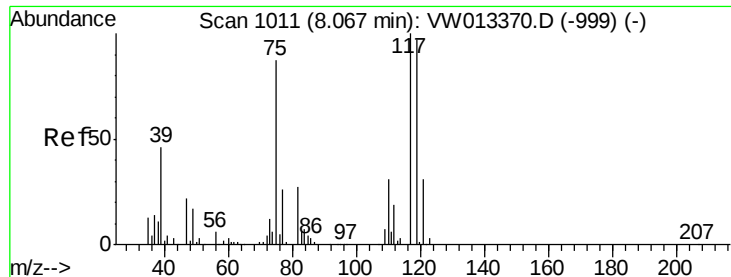
Tgt Ion: 75 Resp: 20969
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.1 54.3#
 77 0.0 25.8 38.6#



#37
 Ethyl Acetate
 Concen: 5.958 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. -0.07 min
 Lab File: VW013437.D
 Acq: 04 Oct 2019 14:28

Tgt Ion: 43 Resp: 11561
 Ion Ratio Lower Upper
 43 100
 61 19203.8 10.9 16.3#
 70 160.2 8.2 12.2#

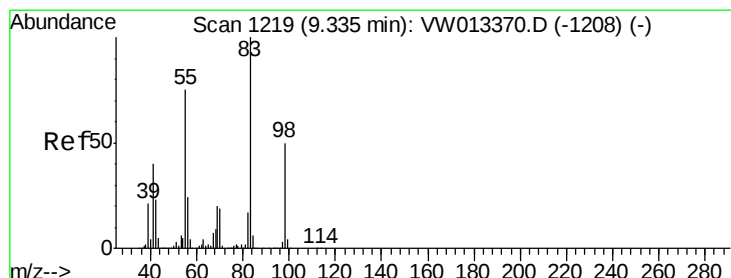
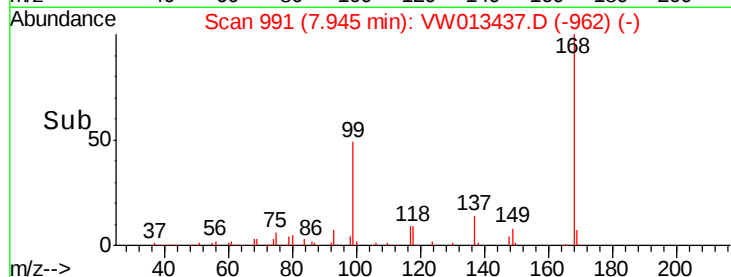
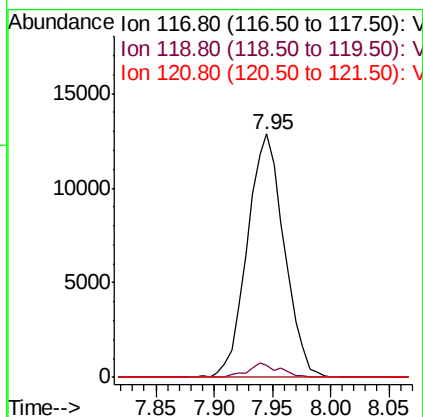
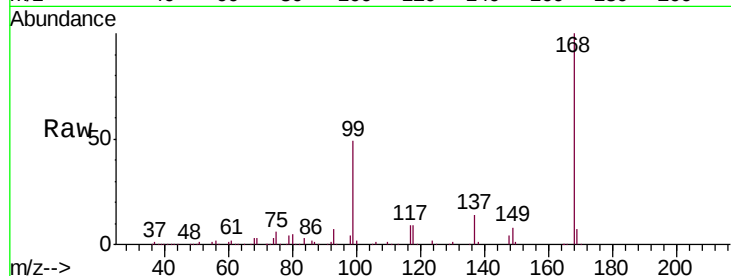




#38
Carbon Tetrachloride
Concen: 7.260 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

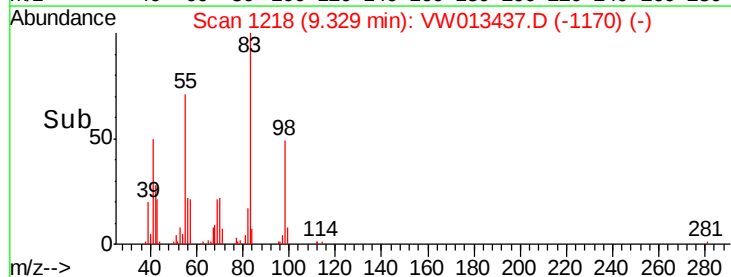
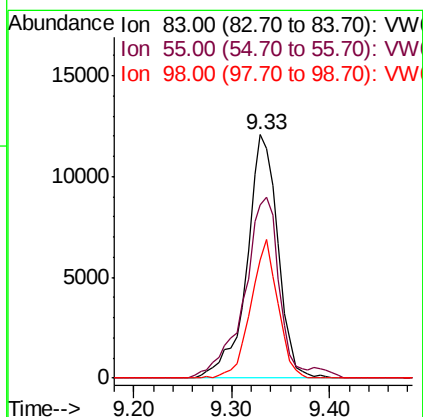
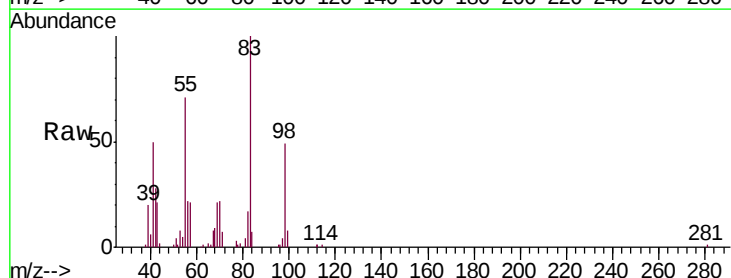
Instrument :
MSVOA_W
ClientSampleId :
S-1(0-5)

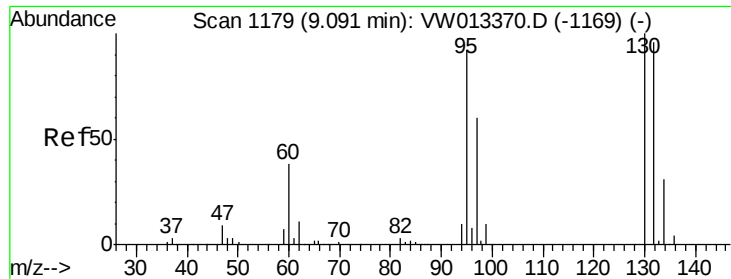
Tgt Ion: 117 Resp: 28281
Ion Ratio Lower Upper
117 100
119 5.1 73.5 110.3#
121 0.0 25.0 37.6#



#39
Methylcyclohexane
Concen: 4.501 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

Tgt Ion: 83 Resp: 26658
Ion Ratio Lower Upper
83 100
55 71.2 60.4 90.6
98 48.6 40.0 60.0

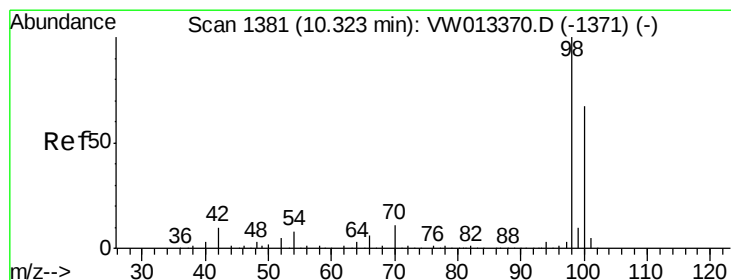
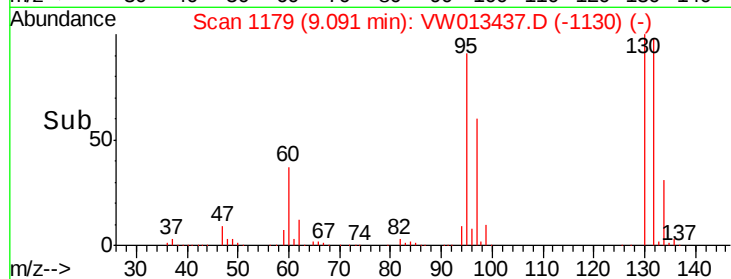
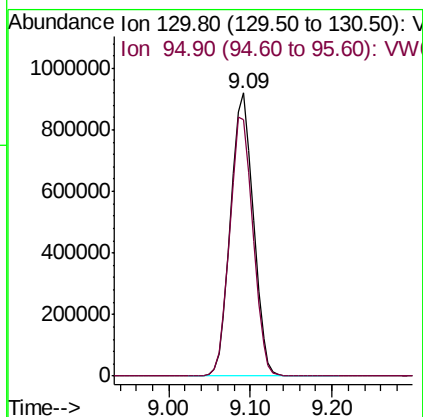
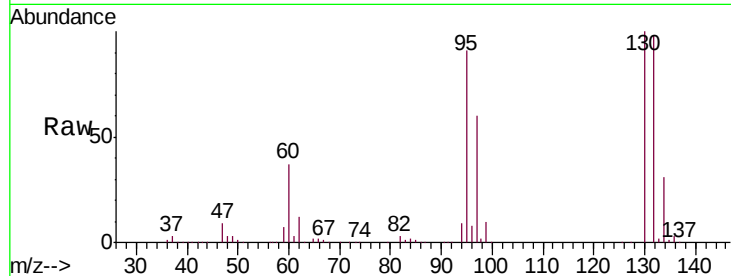




#44
 Trichloroethene
 Concen: 493.049 ug/l
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW013437.D
 Acq: 04 Oct 2019 14:28

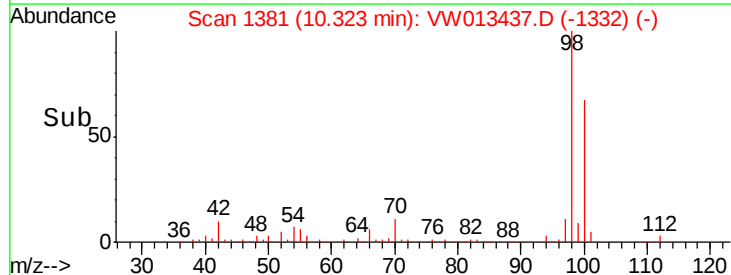
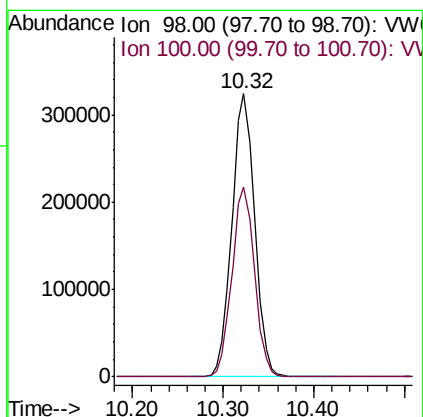
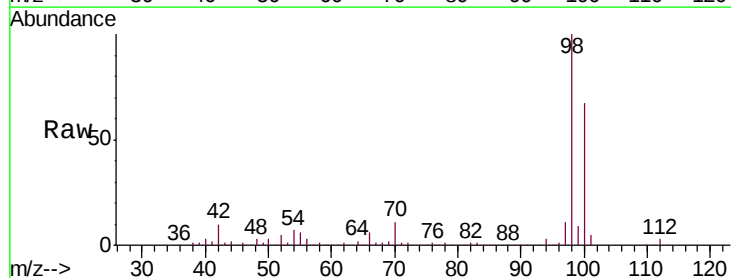
Instrument :
 MSVOA_W
 ClientSampled :
 S-1(0-5)

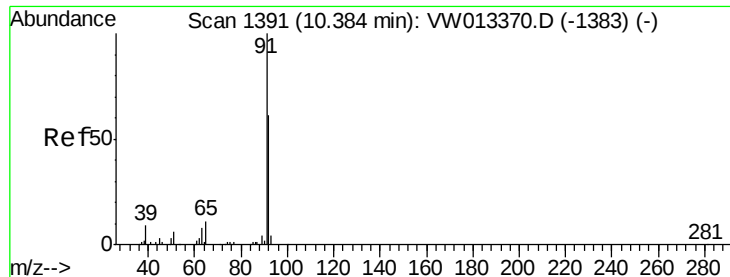
Tgt Ion:130 Resp: 1767579
 Ion Ratio Lower Upper
 130 100
 95 90.7 0.0 188.0



#50
 Toluene-d8
 Concen: 53.670 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VW013437.D
 Acq: 04 Oct 2019 14:28

Tgt Ion: 98 Resp: 565866
 Ion Ratio Lower Upper
 98 100
 100 66.1 52.9 79.3





#52

Toluene

Concen: 1.056 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

Instrument :

MSVOA_W

ClientSampleId :

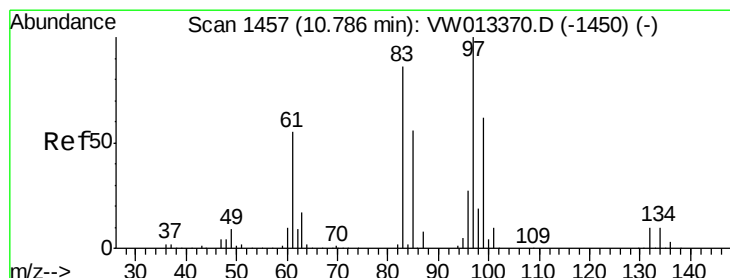
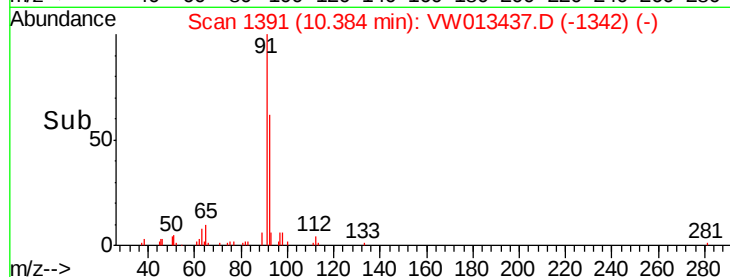
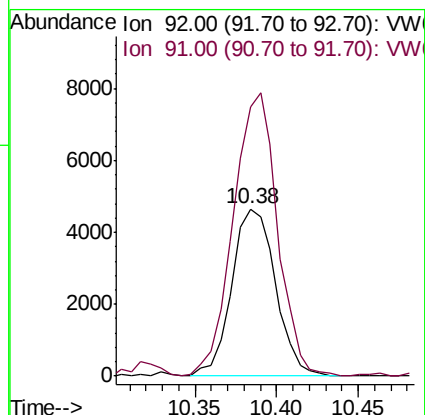
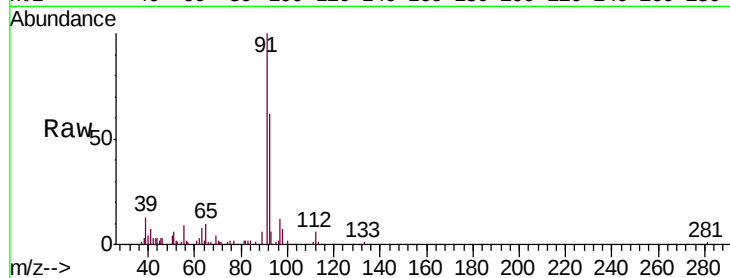
S-1(0-5)

Tgt Ion: 92 Resp: 8675

Ion Ratio Lower Upper

92 100

91 171.7 135.7 203.5



#55

1,1,2-Trichloroethane

Concen: 9.861 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

Tgt Ion: 97 Resp: 22396

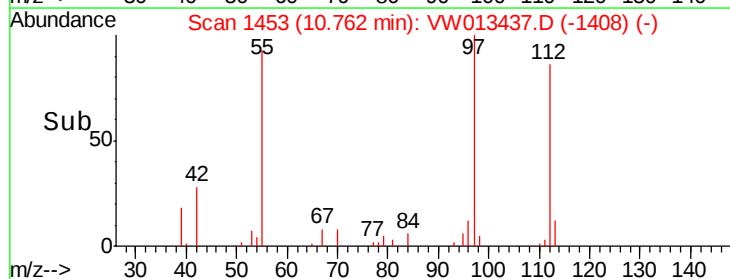
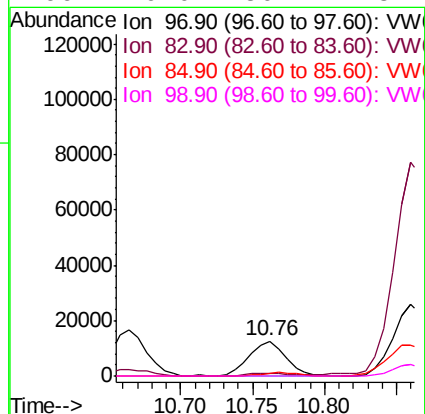
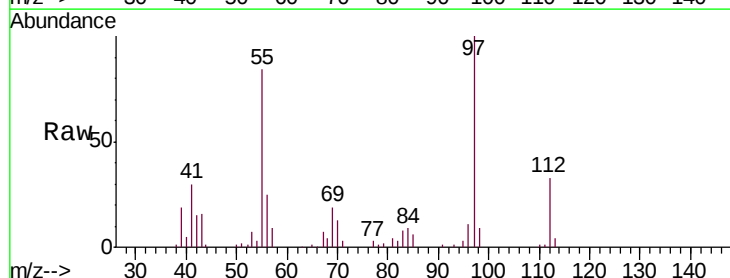
Ion Ratio Lower Upper

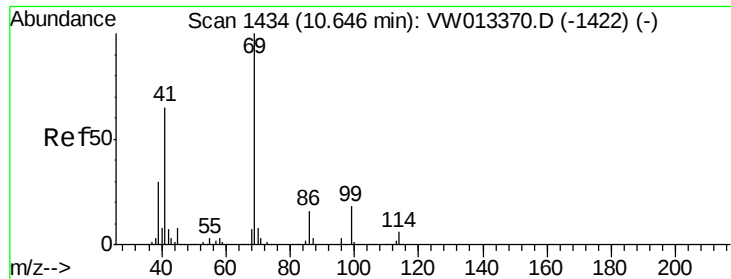
97 100

83 8.3 67.6 101.4#

85 6.0 41.9 62.9#

99 0.0 50.1 75.1#

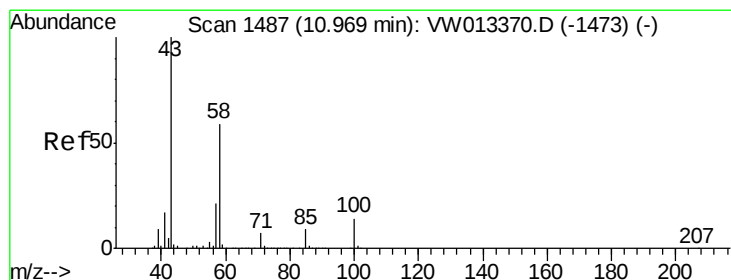
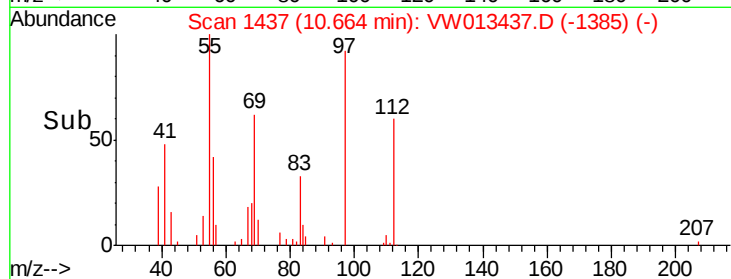
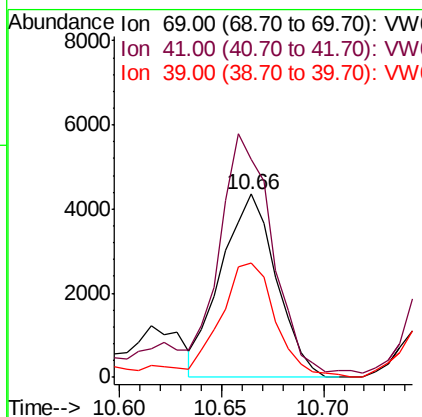
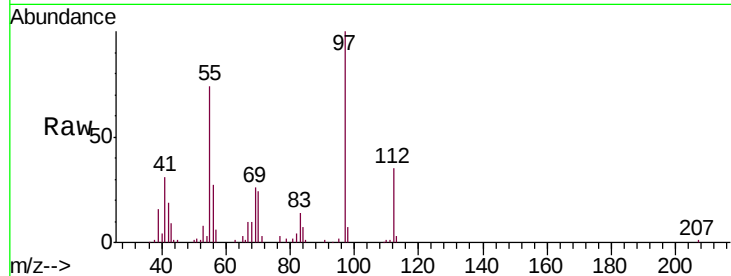




#56
Ethyl methacrylate
Concen: 2.678 ug/l
RT: 10.66 min Scan# 1437
Delta R.T. 0.02 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

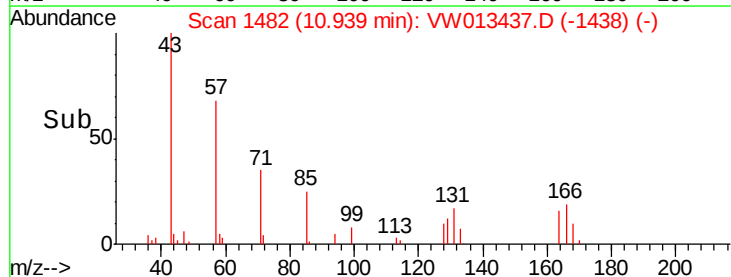
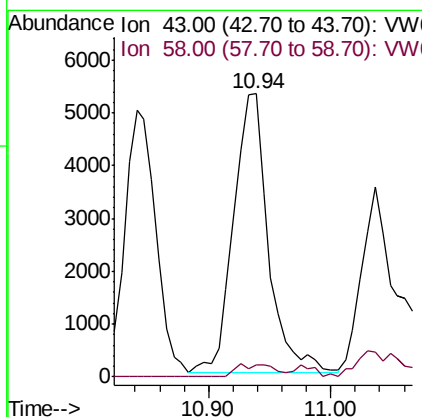
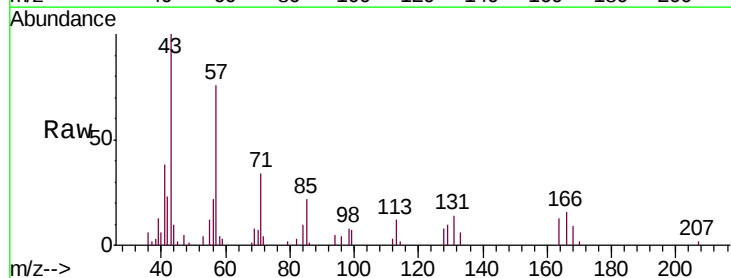
Instrument :
MSVOA_W
ClientSampled :
S-1(0-5)

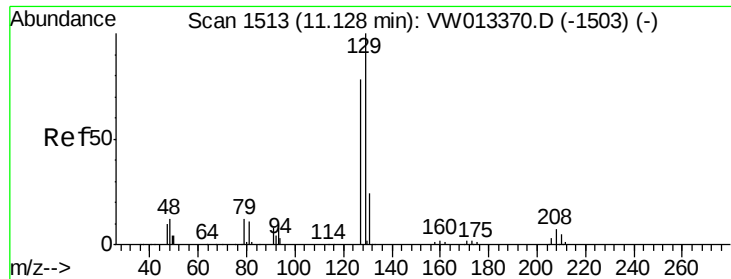
Tgt Ion: 69 Resp: 8188
Ion Ratio Lower Upper
69 100
41 143.1 53.9 80.9#
39 65.8 23.8 35.6#



#59
2-Hexanone
Concen: 7.657 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.03 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

Tgt Ion: 43 Resp: 10417
Ion Ratio Lower Upper
43 100
58 1.9 28.1 84.2#





#60

Dibromochloromethane

Concen: 1968.258 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. -0.26 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

Instrument :

MSVOA_W

ClientSampleId :

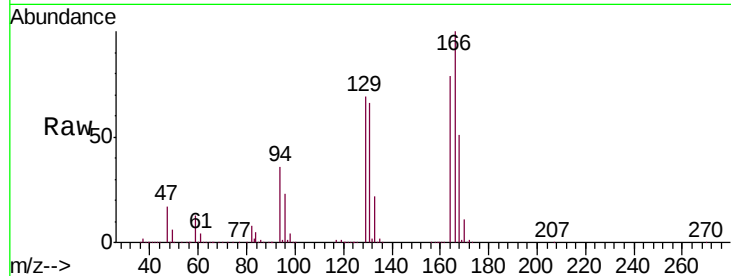
S-1(0-5)

Tgt Ion:129 Resp: 5114069

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.87

3000000

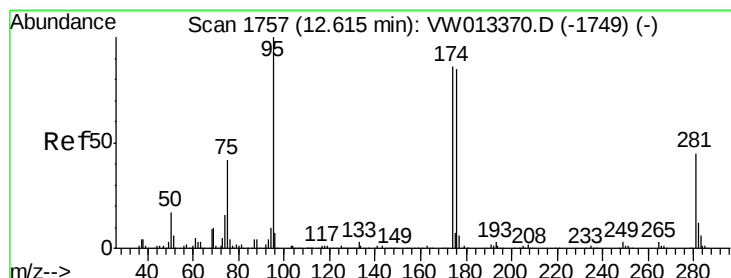
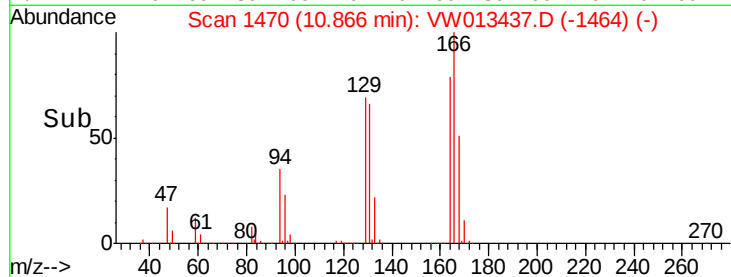
2000000

1000000

0

Time-->

10.80 10.90 11.00



#62

4-Bromofluorobenzene

Concen: 50.886 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

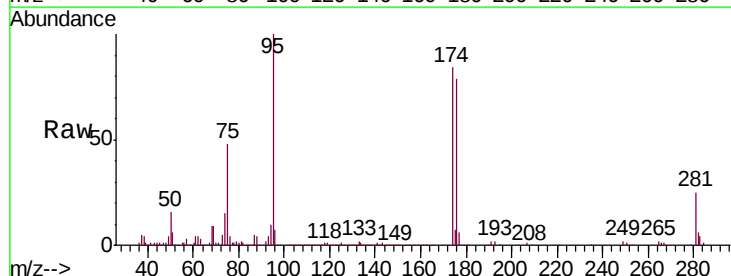
Tgt Ion: 95 Resp: 179159

Ion Ratio Lower Upper

95 100

174 90.4 0.0 178.4

176 87.7 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

150000

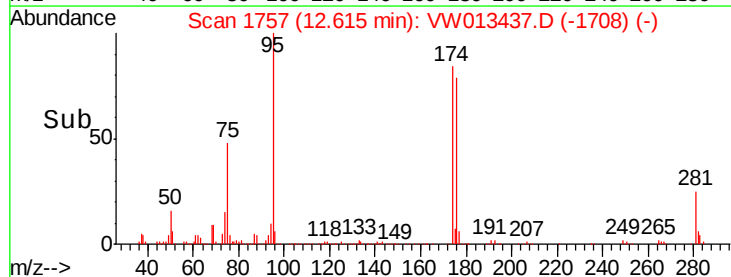
100000

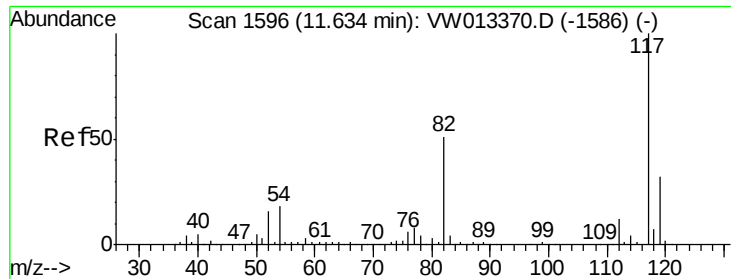
50000

0

Time-->

12.55 12.60 12.65 12.70

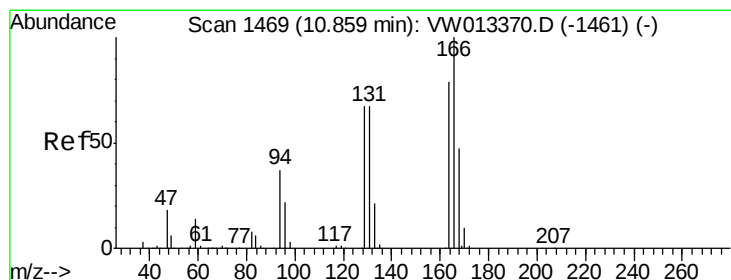
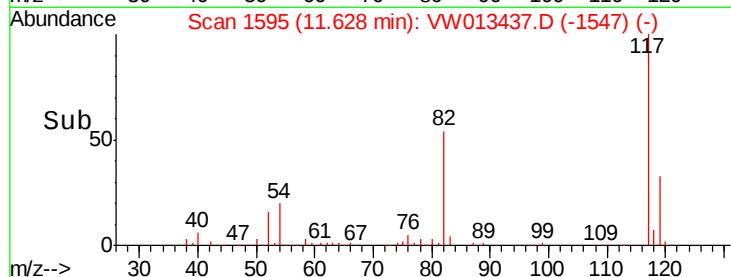
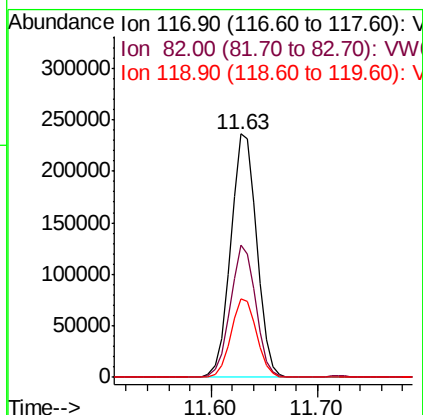
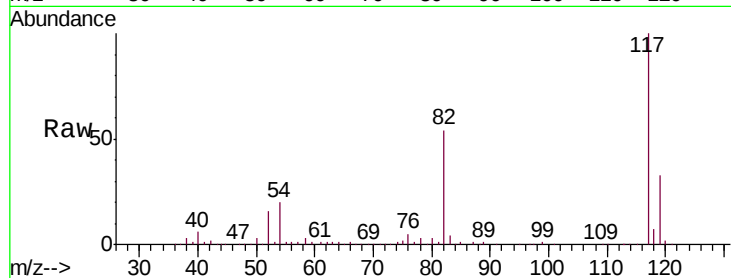




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

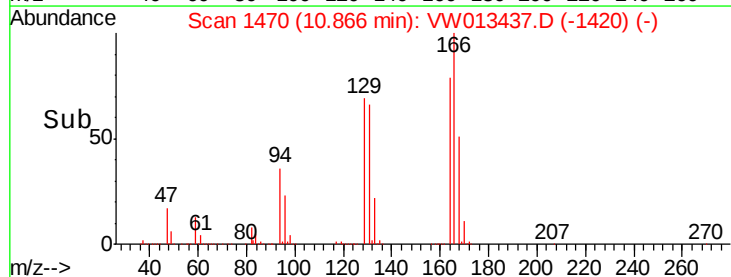
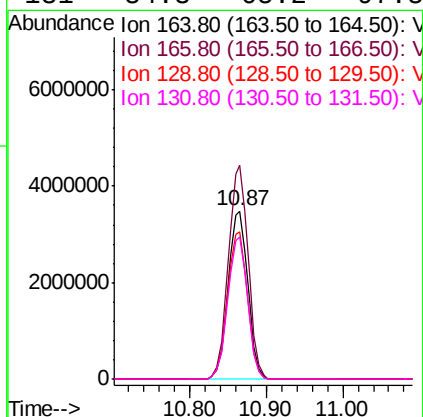
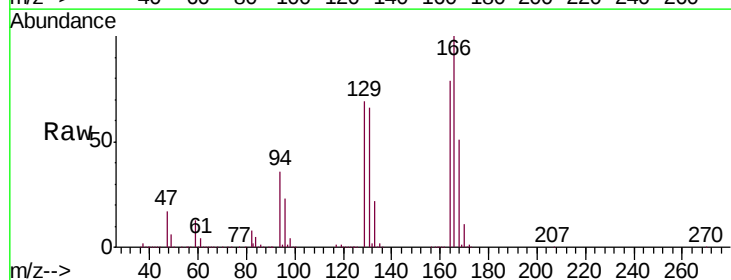
Instrument :
MSVOA_W
ClientSampled :
S-1(0-5)

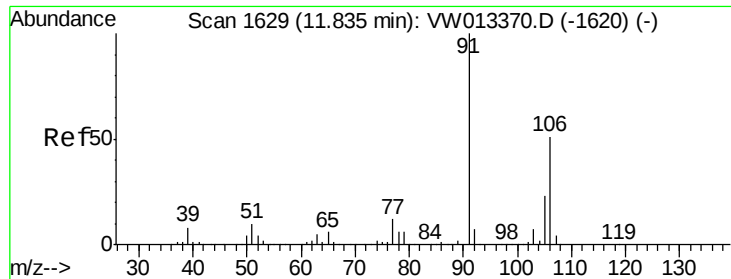
Tgt Ion:117 Resp: 405456
Ion Ratio Lower Upper
117 100
82 54.2 45.9 68.9
119 32.5 26.2 39.2



#64
Tetrachloroethene
Concen: 1998.518 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

Tgt Ion:164 Resp: 6164766
Ion Ratio Lower Upper
164 100
166 126.9 101.2 151.8
129 87.3 68.8 103.2
131 84.3 65.2 97.8

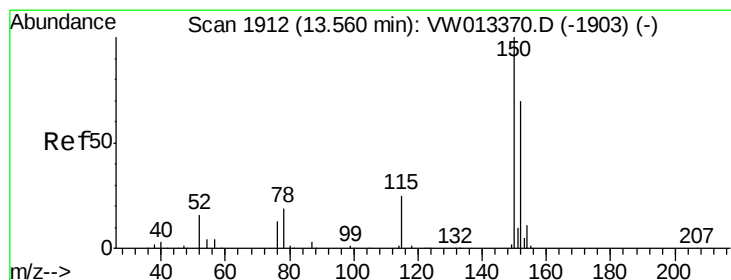
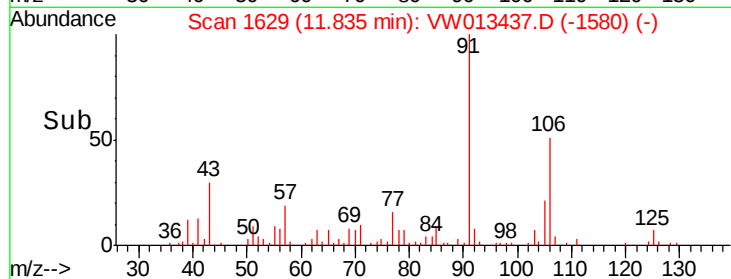
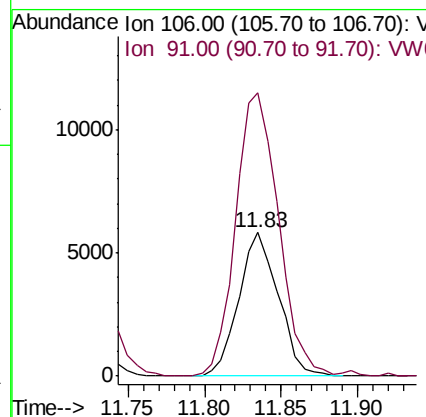
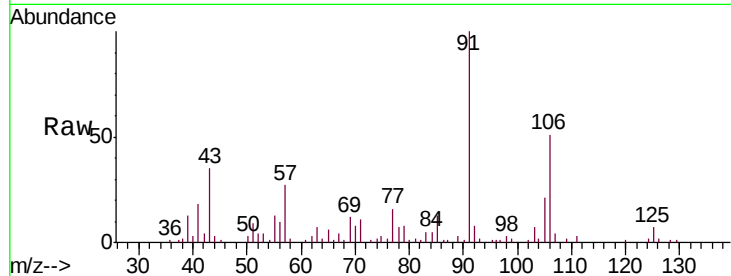




#68
m/p-Xylenes
Concen: 1.821 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

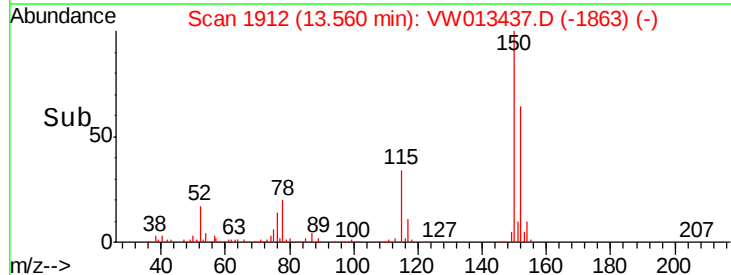
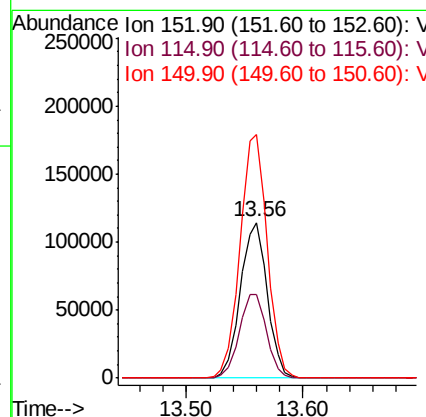
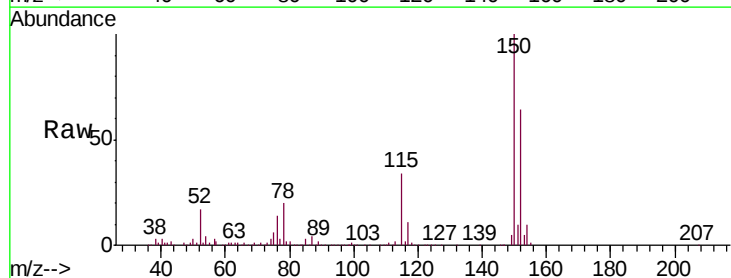
Instrument :
MSVOA_W
ClientSampled :
S-1(0-5)

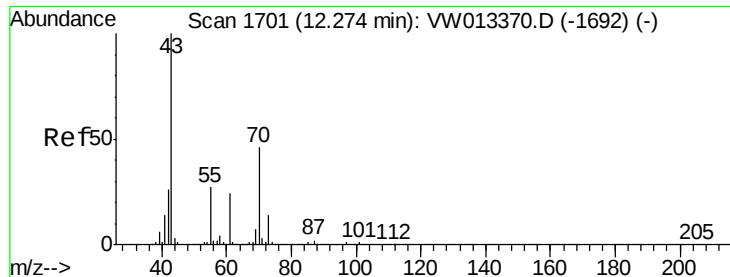
Tgt Ion:106 Resp: 10462
Ion Ratio Lower Upper
106 100
91 213.3 157.9 236.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW013437.D
Acq: 04 Oct 2019 14:28

Tgt Ion:152 Resp: 184073
Ion Ratio Lower Upper
152 100
115 54.8 27.3 81.9
150 158.0 0.0 349.0





#74

N-amy1 acetate

Concen: 2.196 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

Instrument :

MSVOA_W

ClientSampleId :

S-1(0-5)

Tgt Ion: 43 Resp: 6292

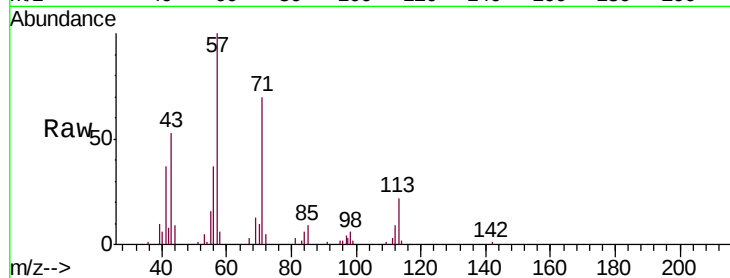
Ion Ratio Lower Upper

43 100

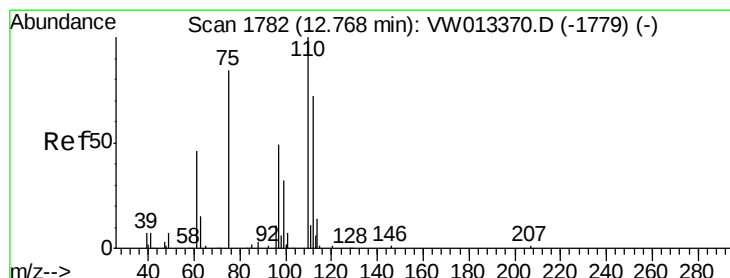
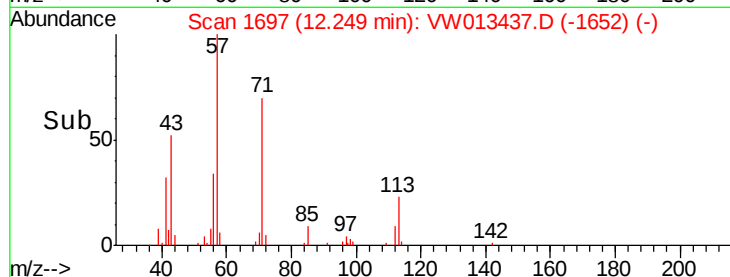
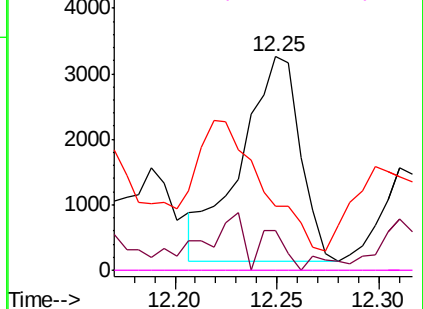
70 8.5 35.1 52.7#

55 0.0 19.9 29.9#

61 0.0 19.5 29.3#



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: 51.778 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013437.D

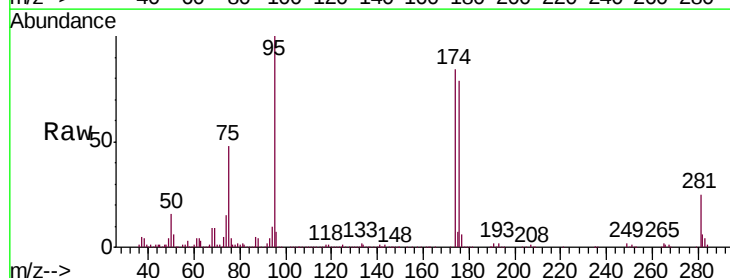
Acq: 04 Oct 2019 14:28

Tgt Ion: 75 Resp: 84708

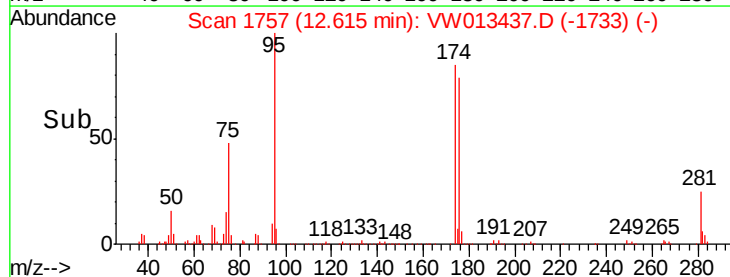
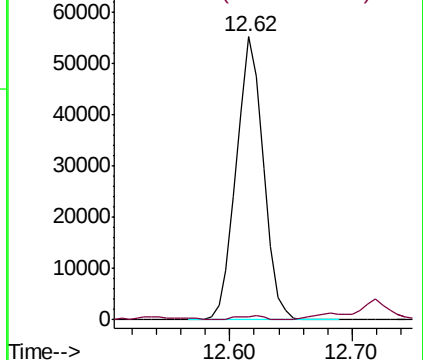
Ion Ratio Lower Upper

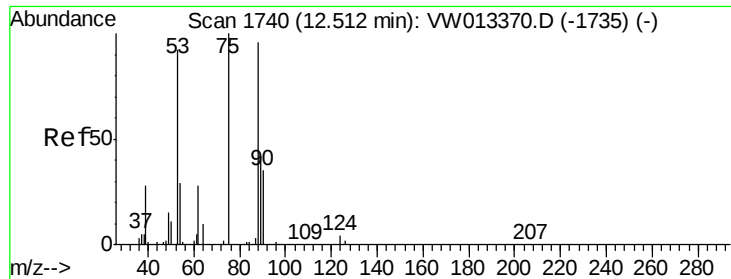
75 100

77 1.4 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: 105.057 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013437.D

Acq: 04 Oct 2019 14:28

Instrument :

MSVOA_W

ClientSampleId :

S-1(0-5)

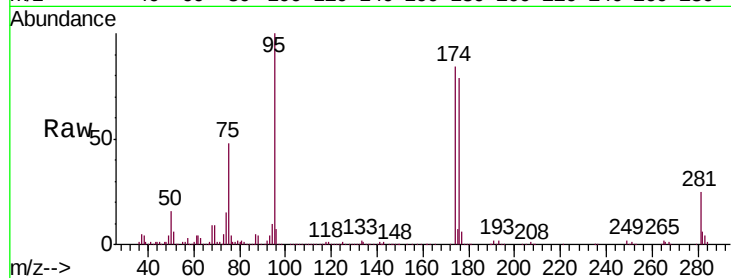
Tgt Ion: 75 Resp: 84708

Ion Ratio Lower Upper

75 100

53 0.3 76.6 114.8#

89 0.0 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

