

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070919\
 Data File : VX010752.D
 Acq On : 09 Jul 2019 15:48
 Operator : JC/SP
 Sample : K3691-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW357-190705

Quant Time: Jul 10 02:11:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	221968	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	344484	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	318292	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	148119	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	111007	53.34	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.68%		
35) Dibromofluoromethane	5.50	113	105619	50.11	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.22%		
50) Toluene-d8	8.71	98	410504	50.91	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.82%		
62) 4-Bromofluorobenzene	11.13	95	140870	48.39	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.78%		

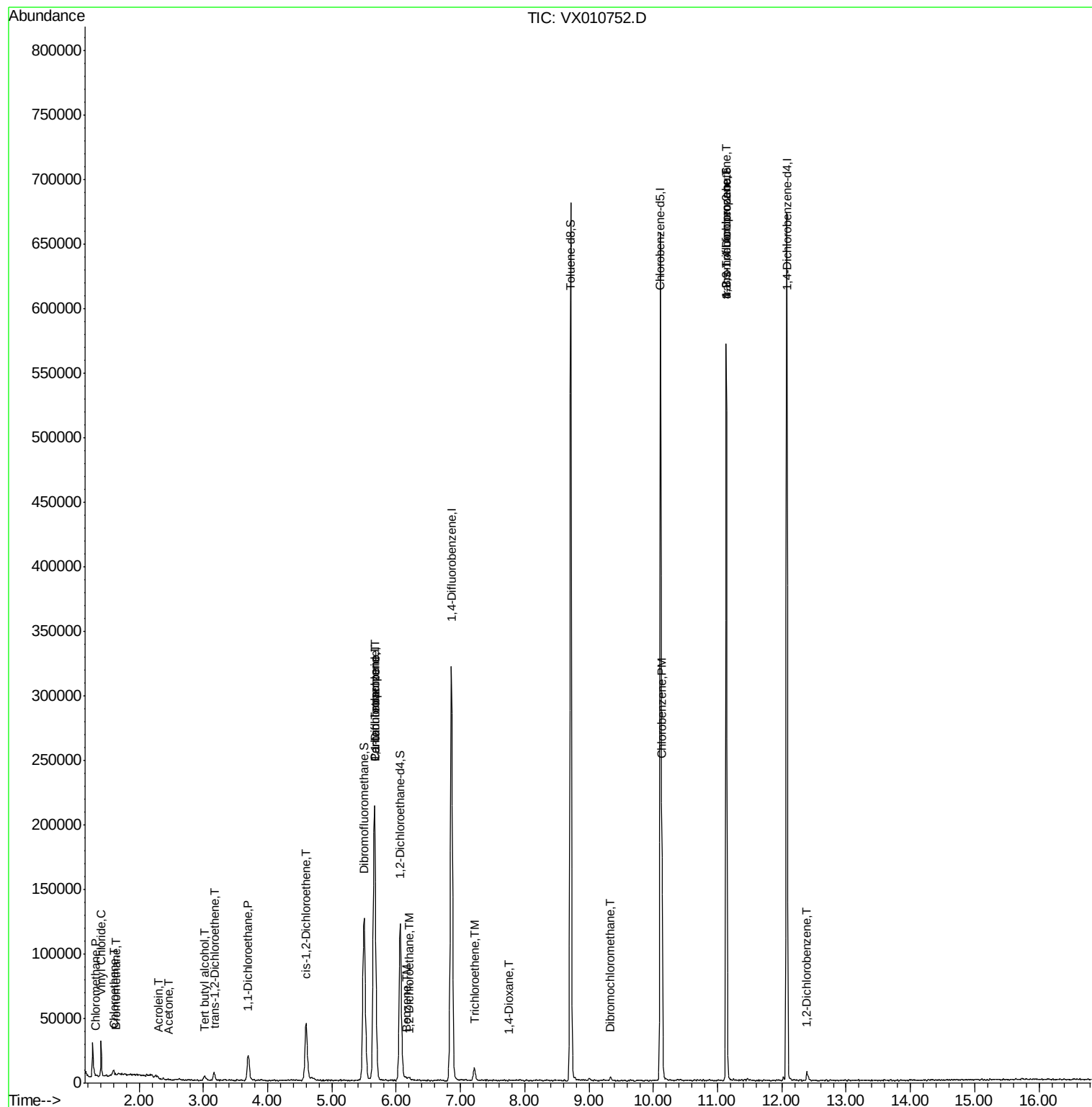
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	504	0.280	ug/l #	63
4) Vinyl Chloride	1.41	62	17442	8.862	ug/l	98
5) Bromomethane	1.64	94	264	0.275	ug/l #	45
6) Chloroethane	1.62	64	1617	1.393	ug/l #	41
11) Tert butyl alcohol	3.02	59	2231	4.097	ug/l #	88
13) Acrolein	2.29	56	220	0.609	ug/l #	51
16) Acetone	2.45	43	627	0.601	ug/l	98
21) trans-1,2-Dichloroethene	3.18	96	2407	1.163	ug/l #	71
24) 1,1-Dichloroethane	3.70	63	21678	6.567	ug/l #	97
27) cis-1,2-Dichloroethene	4.60	96	30895	12.920	ug/l	92
36) 1,1-Dichloropropene	5.67	75	14701	5.370	ug/l #	47
38) Carbon Tetrachloride	5.67	117	19904	6.715	ug/l #	14
40) Benzene	6.15	78	2012	0.236	ug/l #	82
42) 1,2-Dichloroethane	6.19	62	2254	0.868	ug/l	98
44) Trichloroethene	7.21	130	4122	1.615	ug/l	94
49) 1,4-Dioxane	7.76	88	470	7.533	ug/l #	67
60) Dibromochloromethane	9.33	129	533	0.206	ug/l #	11
65) Chlorobenzene	10.13	112	66316	10.263	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	68365	25.329	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	68365	59.089	ug/l #	16
91) 1,2-Dichlorobenzene	12.39	146	1801	0.370	ug/l	93

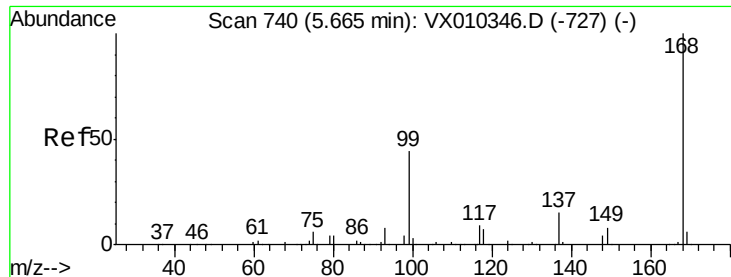
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

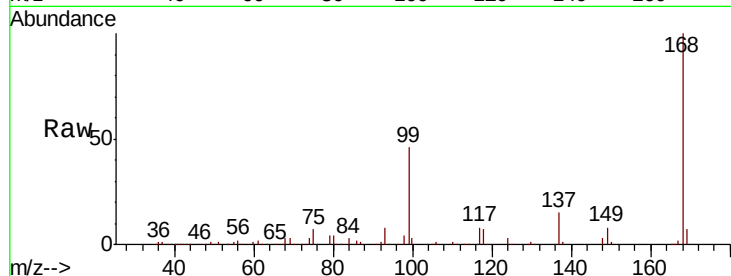
WP022MW357-190705

Tot Ion:168 Resp: 221968

Ion Ratio Lower Upper

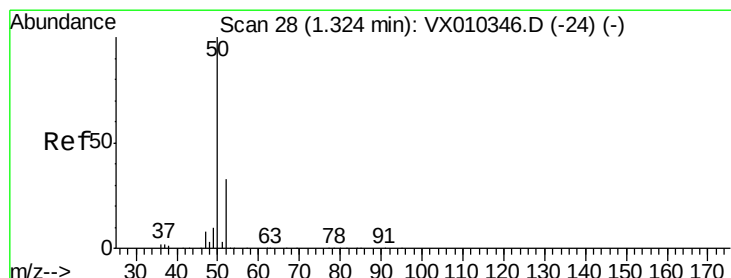
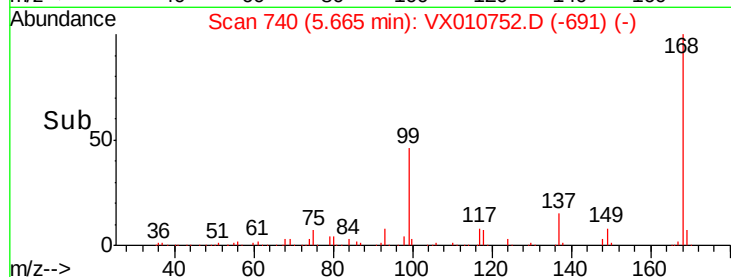
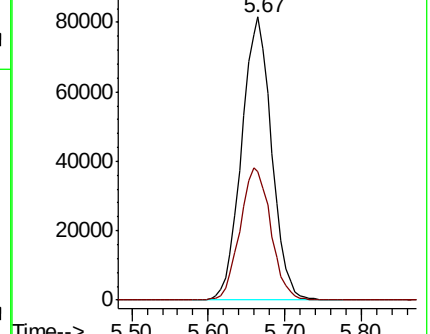
168 100

99 45.4 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.280 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010752.D

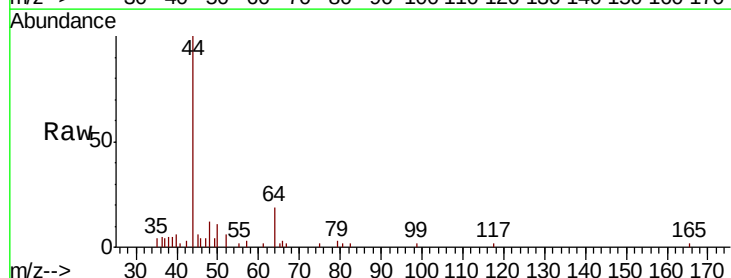
Acq: 09 Jul 2019 15:48

Tgt Ion: 50 Resp: 504

Ion Ratio Lower Upper

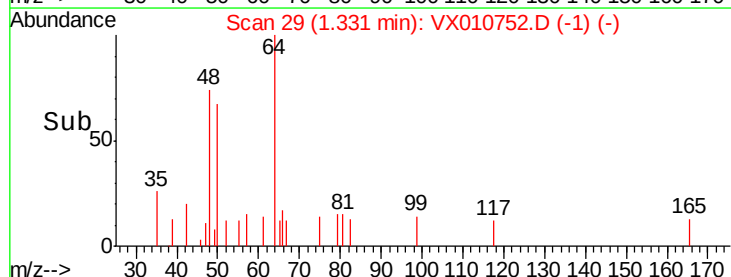
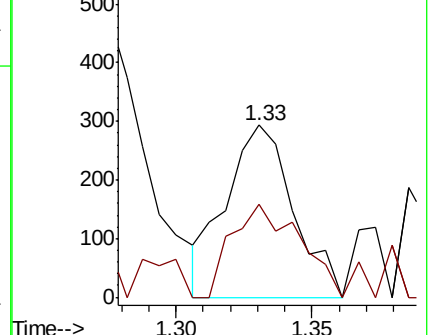
50 100

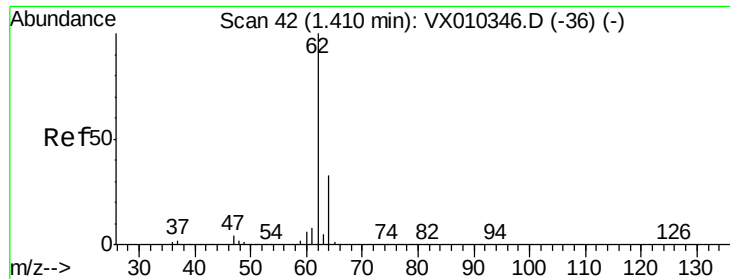
52 53.9 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 8.862 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

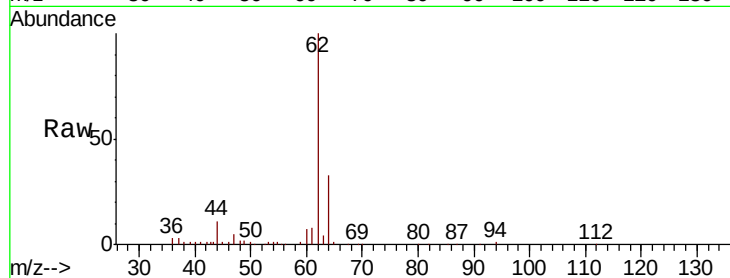
WP022MW357-190705

Tot Ion: 62 Resp: 17442

Ion Ratio Lower Upper

62 100

64 31.7 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

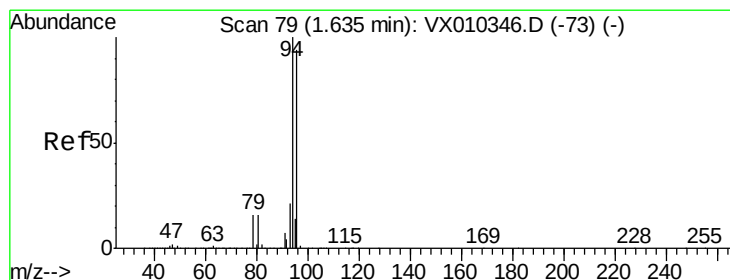
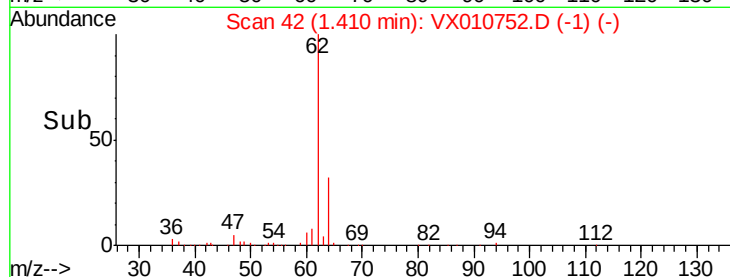
15000

10000

5000

0

Time-->



#5

Bromomethane

Concen: 0.275 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX010752.D

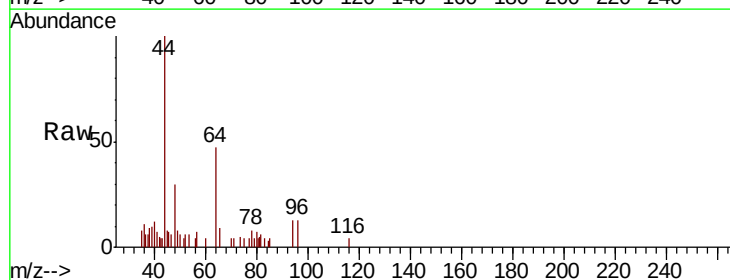
Acq: 09 Jul 2019 15:48

Tgt Ion: 94 Resp: 264

Ion Ratio Lower Upper

94 100

96 41.6 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

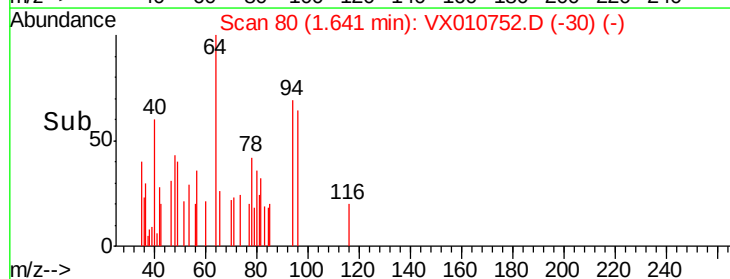
150

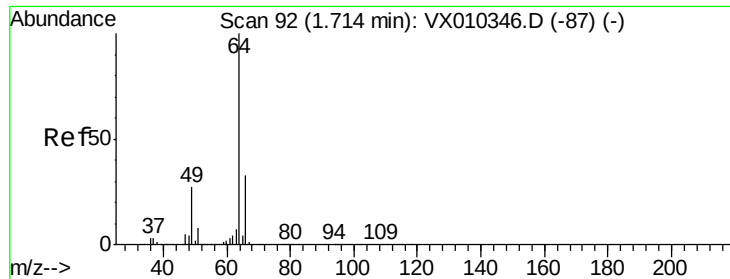
100

50

0

Time-->





#6

Chloroethane

Concen: 1.393 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.09 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

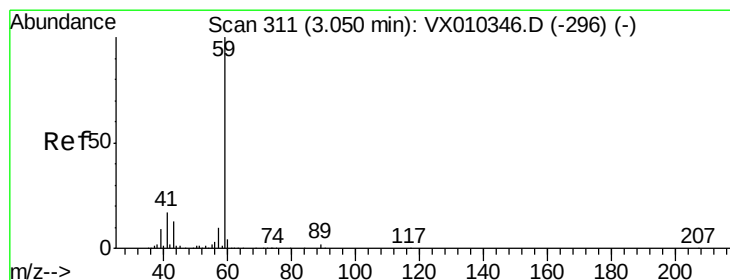
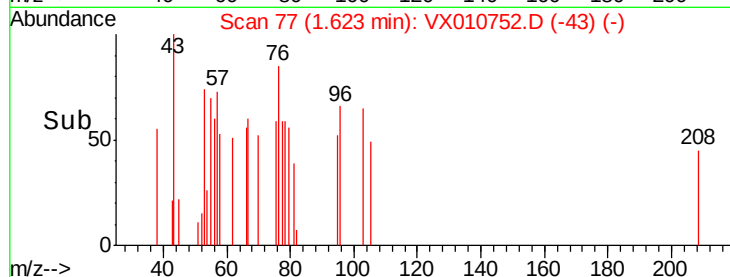
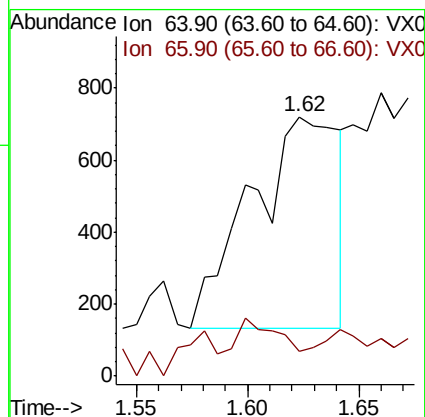
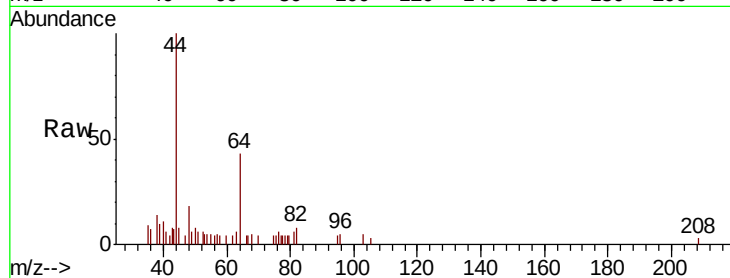
WP022MW357-190705

Tot Ion: 64 Resp: 1617

Ion Ratio Lower Upper

64 100

66 0.0 26.6 40.0#



#11

Tert butyl alcohol

Concen: 4.097 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010752.D

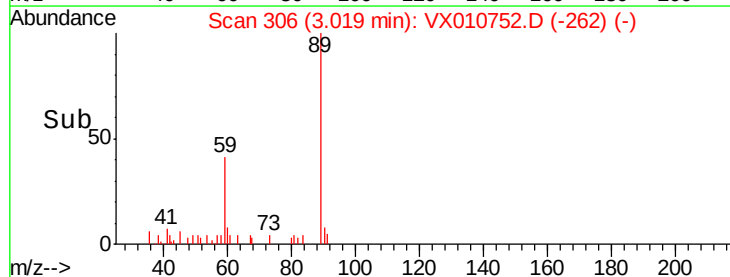
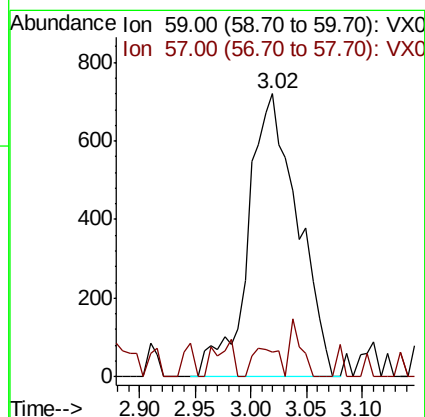
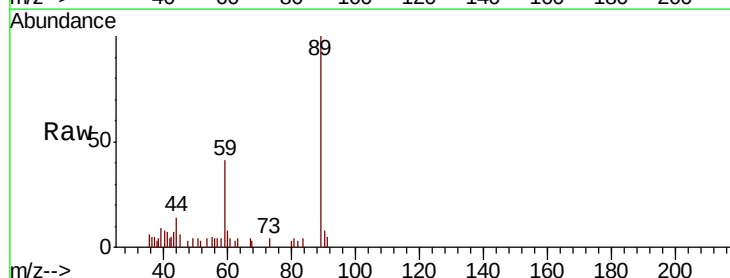
Acq: 09 Jul 2019 15:48

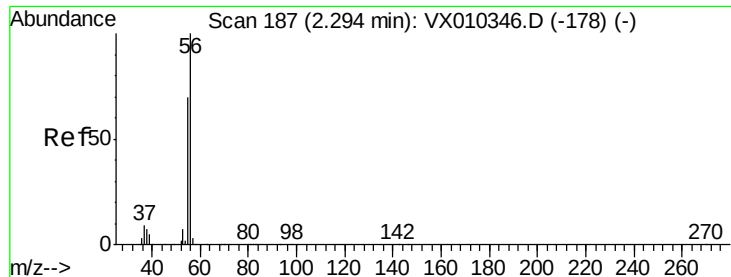
Tgt Ion: 59 Resp: 2231

Ion Ratio Lower Upper

59 100

57 5.3 7.7 11.5#





#13

Acrolein

Concen: 0.609 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

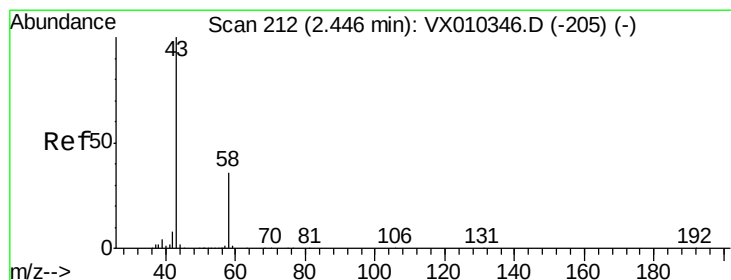
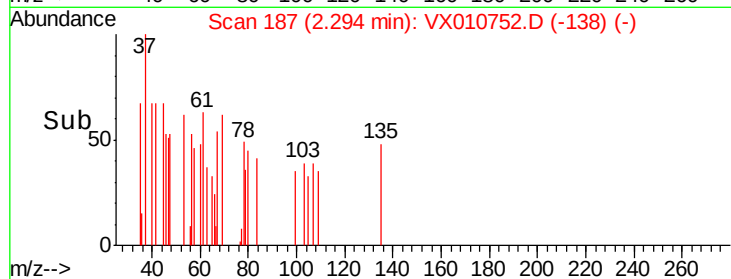
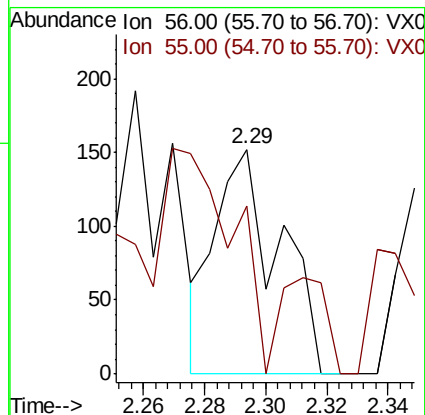
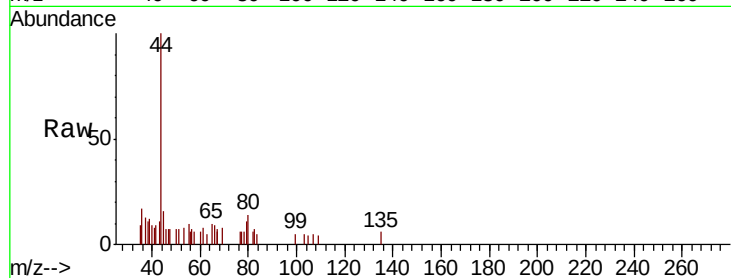
WP022MW357-190705

Tot Ion: 56 Resp: 220

Ion Ratio Lower Upper

56 100

55 30.9 56.9 85.3#



#16

Acetone

Concen: 0.601 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010752.D

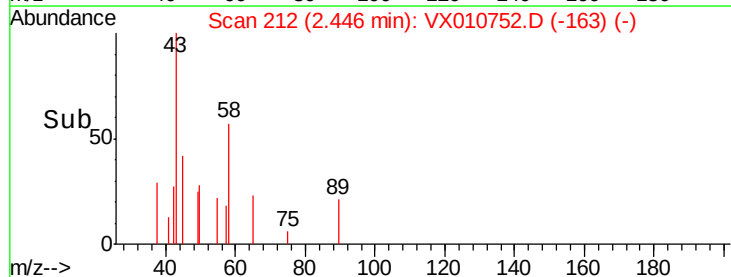
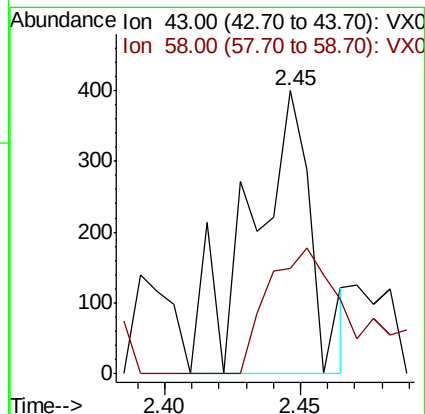
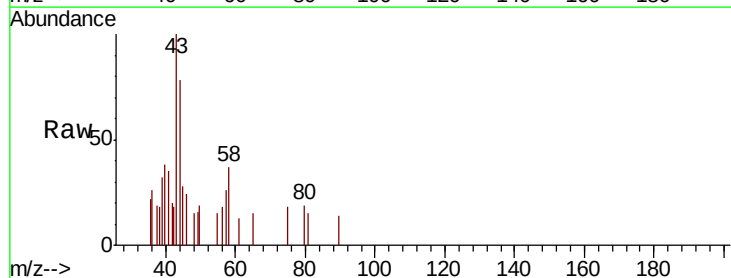
Acq: 09 Jul 2019 15:48

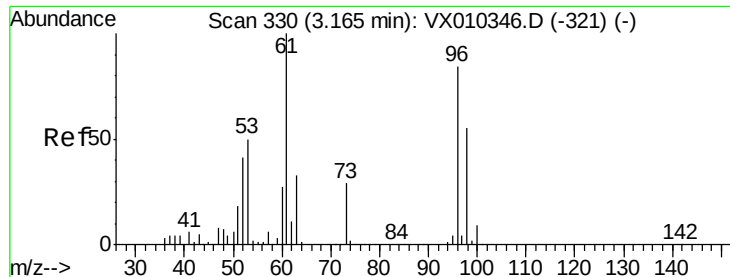
Tgt Ion: 43 Resp: 627

Ion Ratio Lower Upper

43 100

58 37.3 28.9 43.3





#21

trans-1,2-Dichloroethene

Concen: 1.163 ug/l

RT: 3.18 min Scan# 332

Delta R.T. 0.01 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

WP022MW357-190705

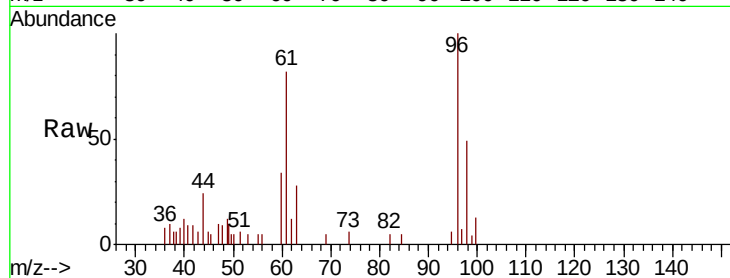
Tot Ion: 96 Resp: 2407

Ion Ratio Lower Upper

96 100

61 82.4 95.6 143.4#

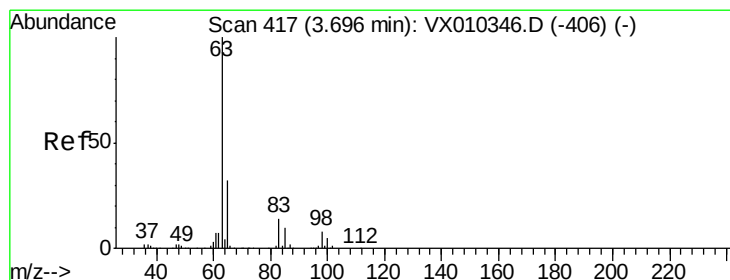
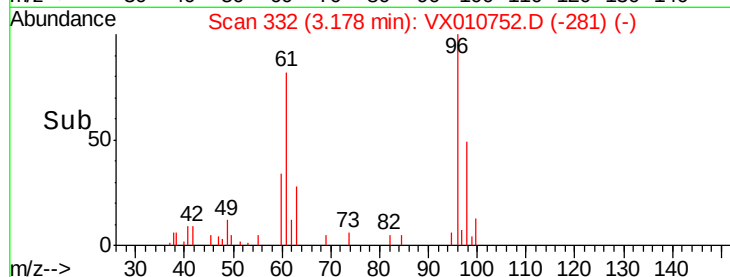
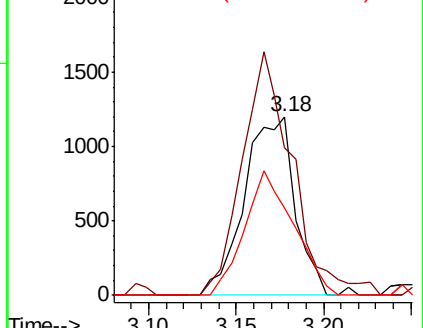
98 49.0 52.5 78.7#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#24

1,1-Dichloroethane

Concen: 6.567 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

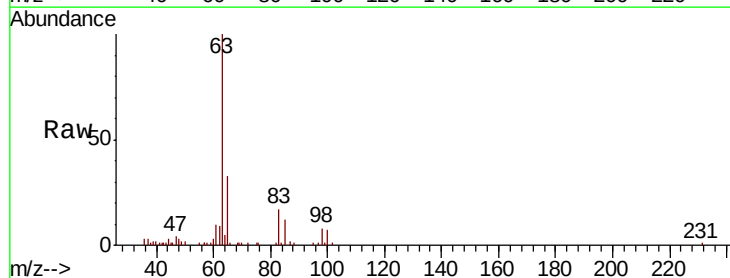
Tgt Ion: 63 Resp: 21678

Ion Ratio Lower Upper

63 100

98 7.8 3.9 11.7

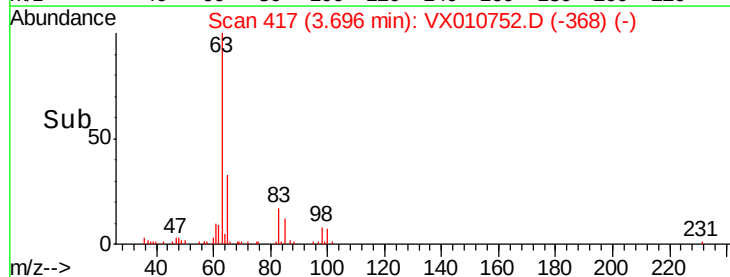
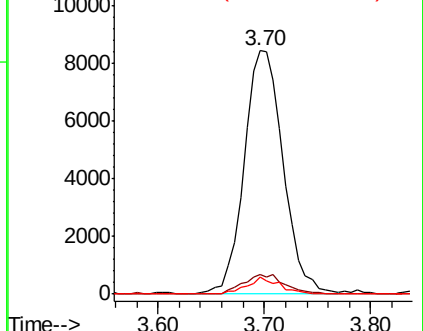
100 7.3 2.4 7.1#

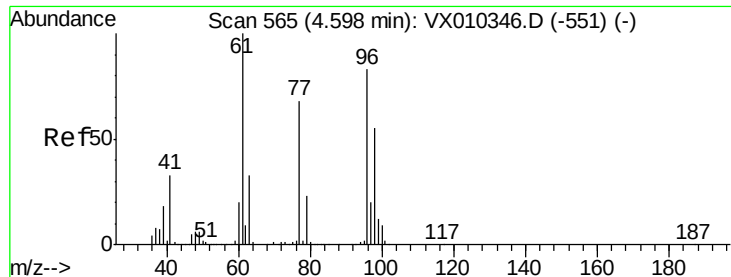


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



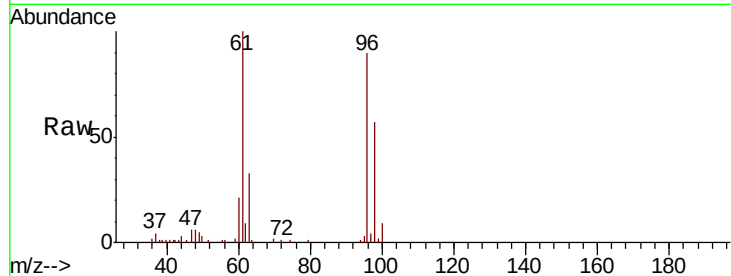


#27

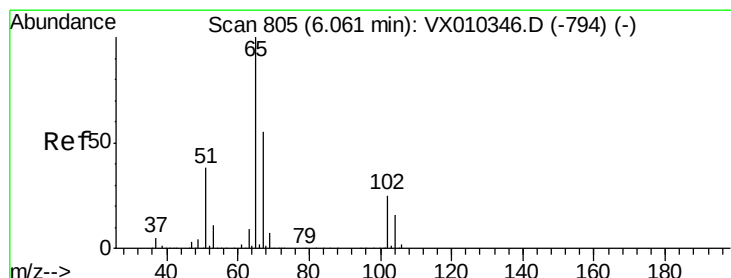
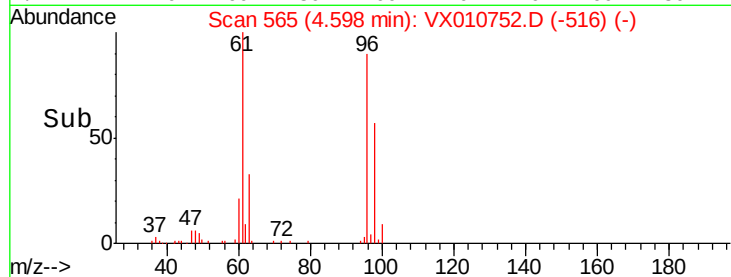
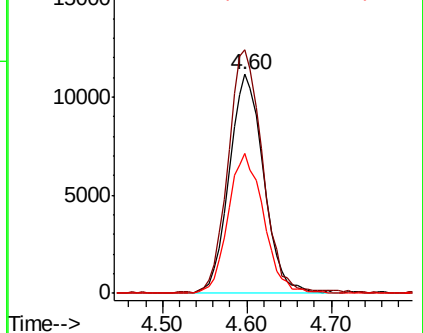
cis-1,2-Dichloroethene
 Concen: 12.920 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX010752.D
 Acq: 09 Jul 2019 15:48

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Tot Ion	96	Resp	30895
Ion	Ratio	Lower	Upper
96	100		
61	112.8	0.0	251.8
98	65.4	0.0	129.4



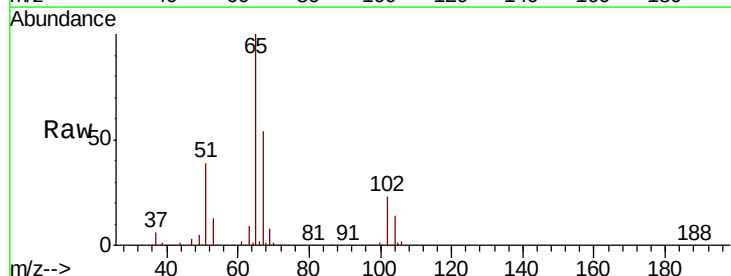
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



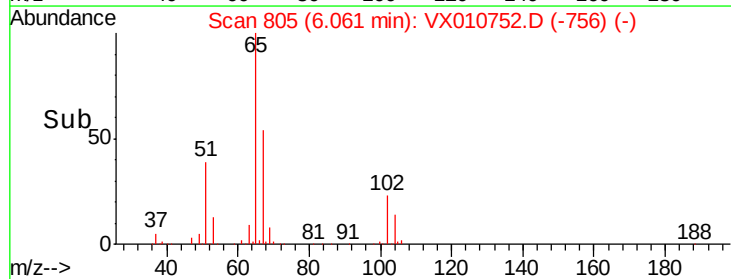
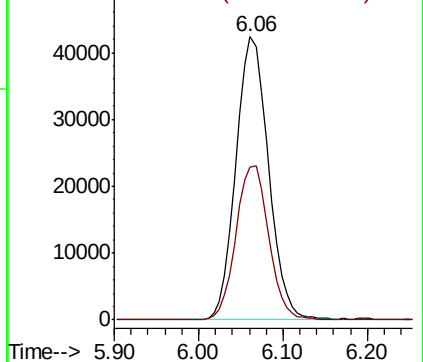
#33

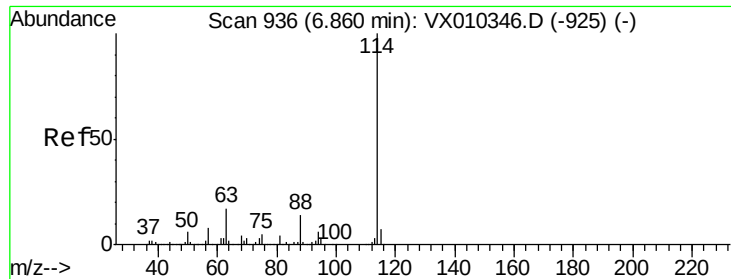
1,2-Dichloroethane-d4
 Concen: 53.339 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010752.D
 Acq: 09 Jul 2019 15:48

Tgt Ion	65	Resp	111007
Ion	Ratio	Lower	Upper
65	100		
67	54.7	0.0	110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
 Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

WP022MW357-190705

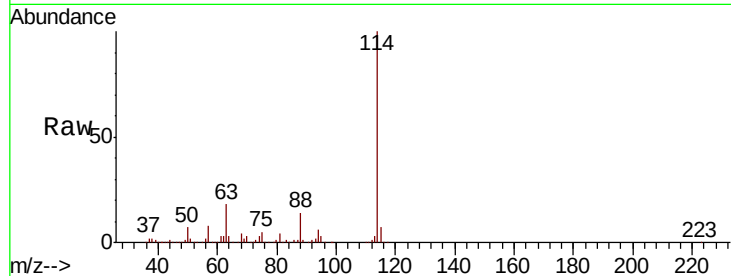
Tot Ion:114 Resp: 344484

Ion Ratio Lower Upper

114 100

63 17.5 0.0 33.8

88 14.3 0.0 27.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

200000

150000

100000

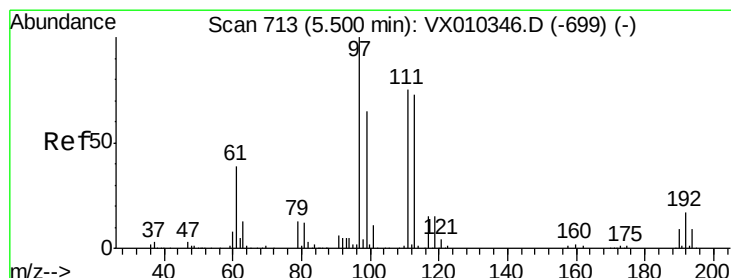
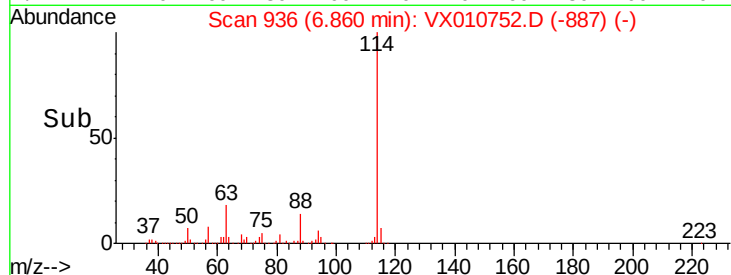
50000

0

6.86

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 50.112 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

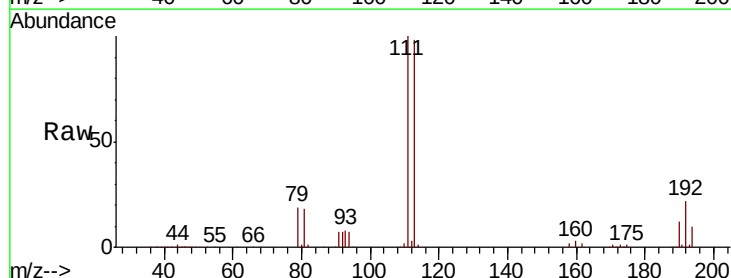
Tgt Ion:113 Resp: 105619

Ion Ratio Lower Upper

113 100

111 102.1 81.2 121.8

192 22.2 18.6 27.8



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

50000

40000

30000

20000

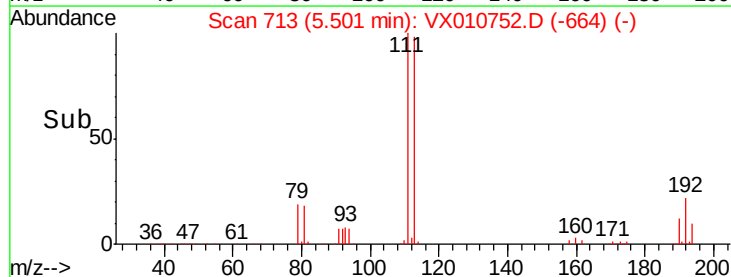
10000

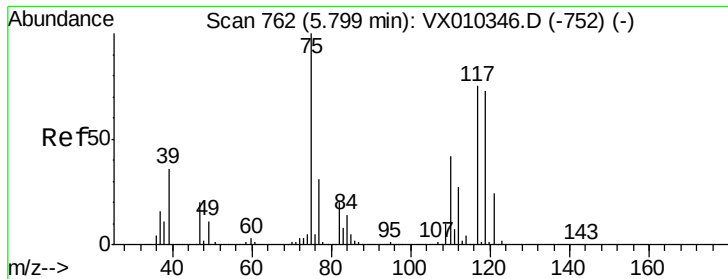
0

5.50

5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 5.370 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

WP022MW357-190705

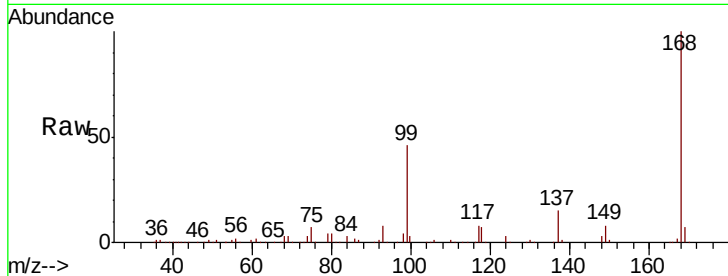
Tot Ion: 75 Resp: 14701

Ion Ratio Lower Upper

75 100

110 10.6 20.8 62.2#

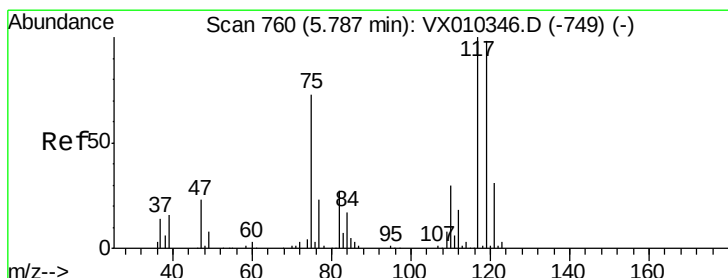
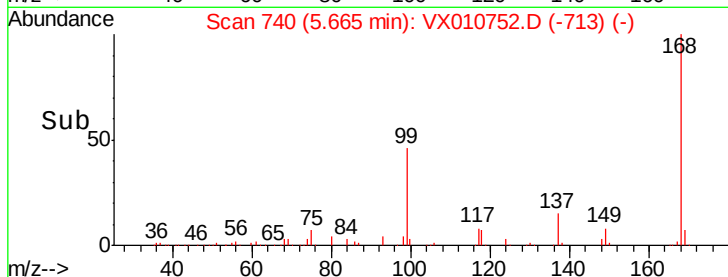
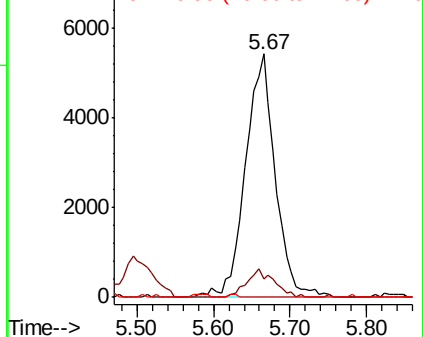
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.715 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

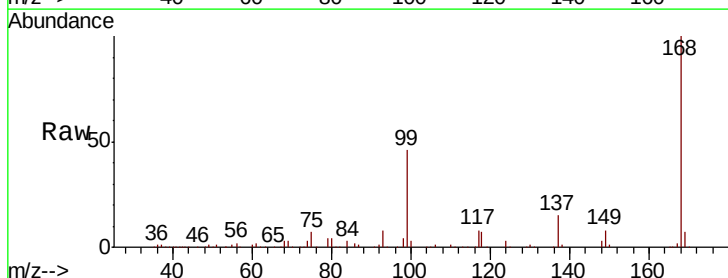
Tgt Ion: 117 Resp: 19904

Ion Ratio Lower Upper

117 100

119 4.2 78.2 117.4#

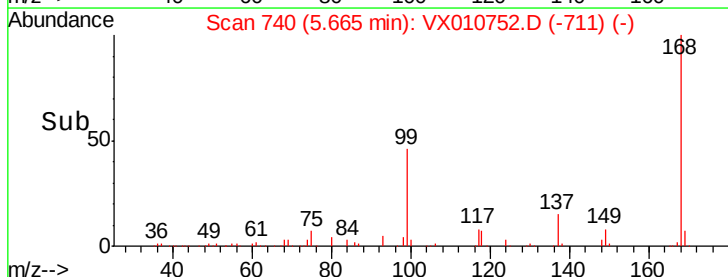
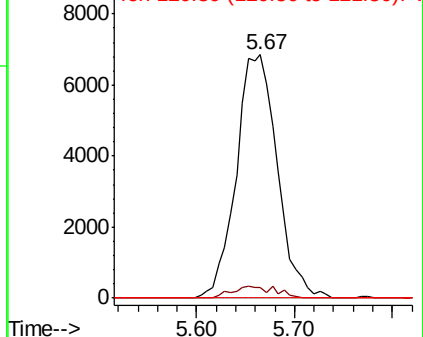
121 0.0 24.7 37.1#

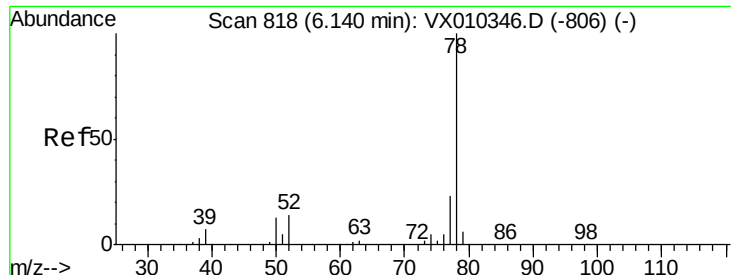


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.236 ug/l

RT: 6.15 min Scan# 820

Delta R.T. 0.01 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

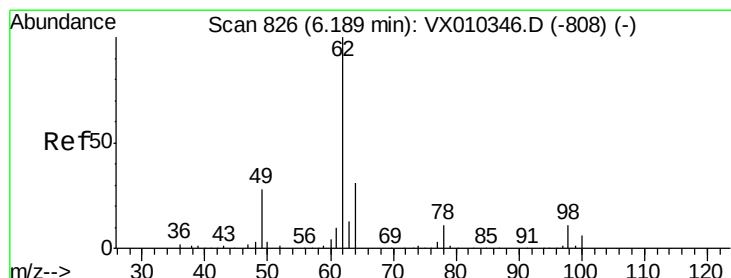
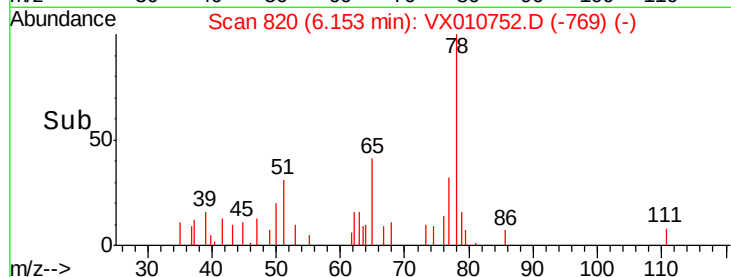
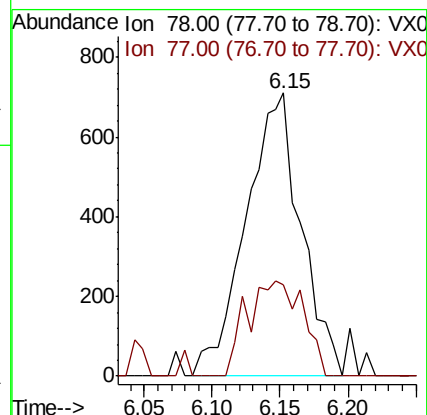
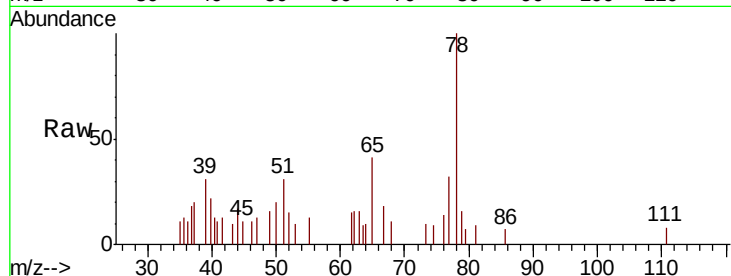
WP022MW357-190705

Tot Ion: 78 Resp: 2012

Ion Ratio Lower Upper

78 100

77 32.1 18.6 28.0#



#42

1,2-Dichloroethane

Concen: 0.868 ug/l

RT: 6.19 min Scan# 826

Delta R.T. 0.00 min

Lab File: VX010752.D

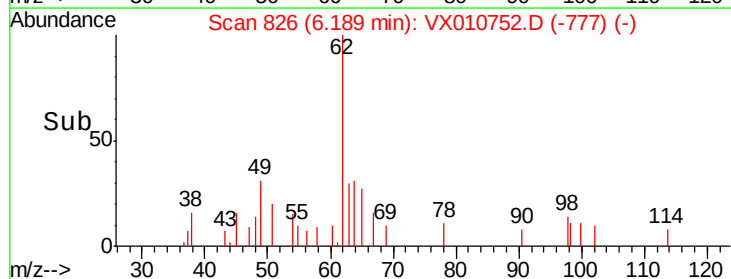
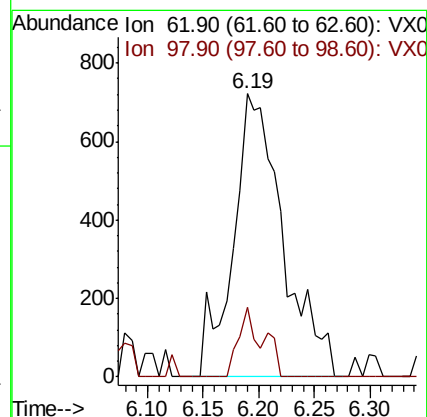
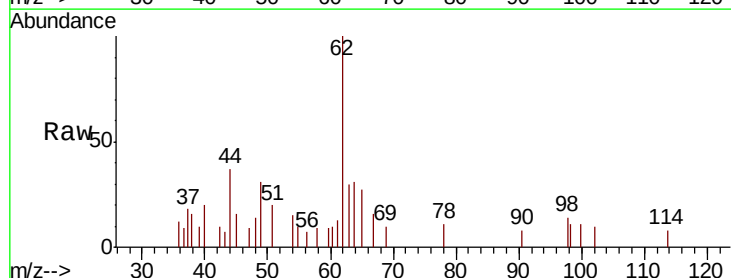
Acq: 09 Jul 2019 15:48

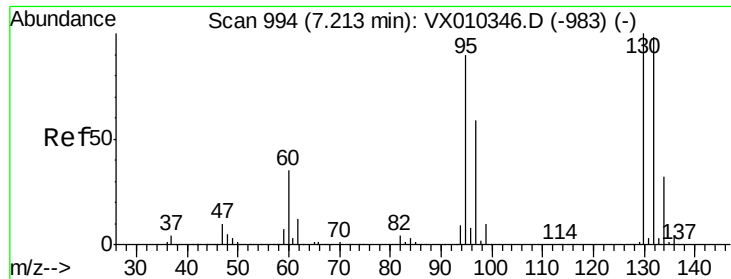
Tgt Ion: 62 Resp: 2254

Ion Ratio Lower Upper

62 100

98 11.8 0.0 22.2





#44

Trichloroethene

Concen: 1.615 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

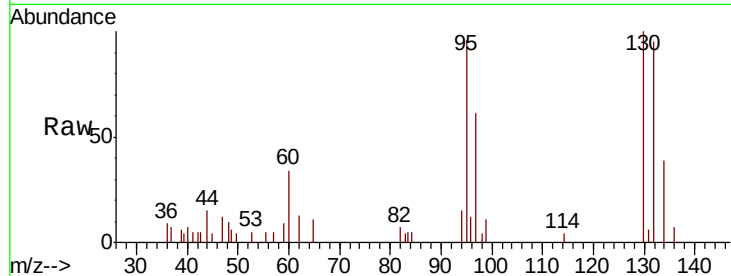
WP022MW357-190705

Tot Ion:130 Resp: 4122

Ion Ratio Lower Upper

130 100

95 95.8 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

2000

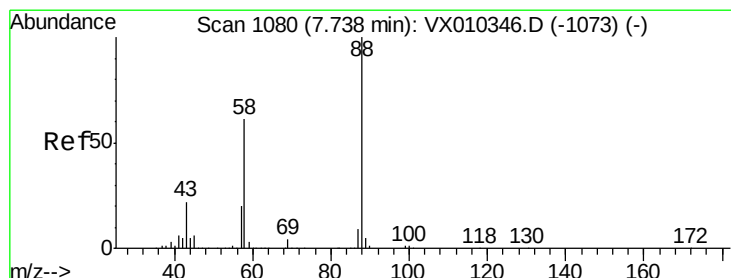
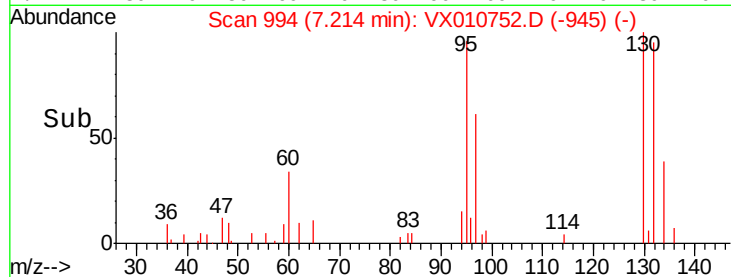
1500

1000

500

0

Time--> 7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 7.533 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

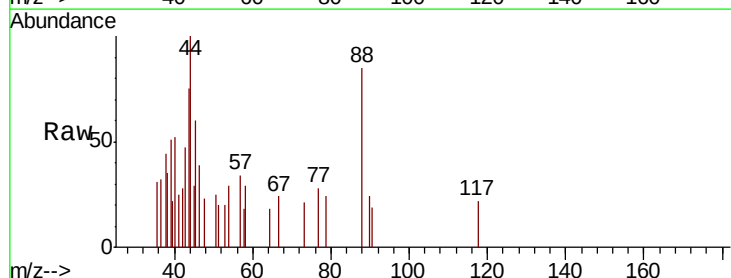
Tgt Ion: 88 Resp: 470

Ion Ratio Lower Upper

88 100

43 46.4 20.2 30.2#

58 84.5 49.5 74.3#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

300

250

200

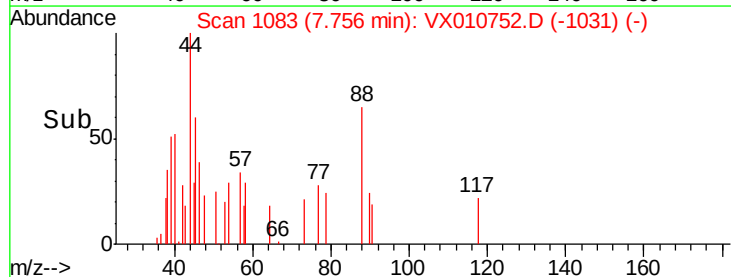
150

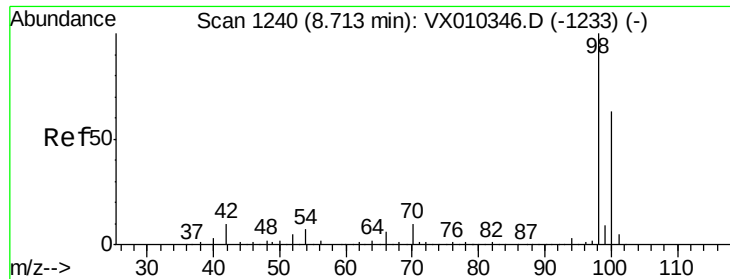
100

50

0

Time--> 7.70 7.75 7.80

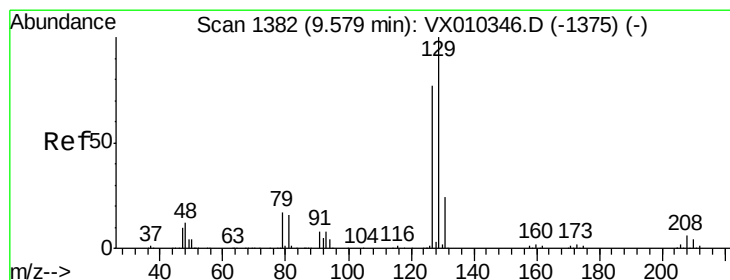
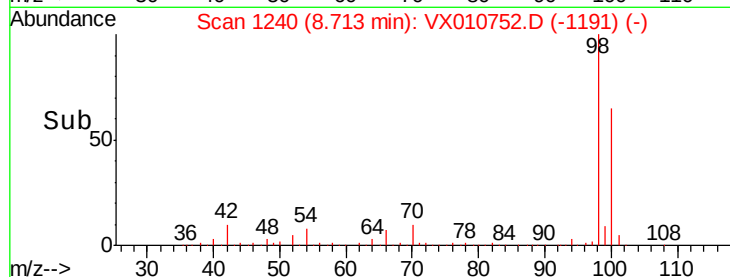
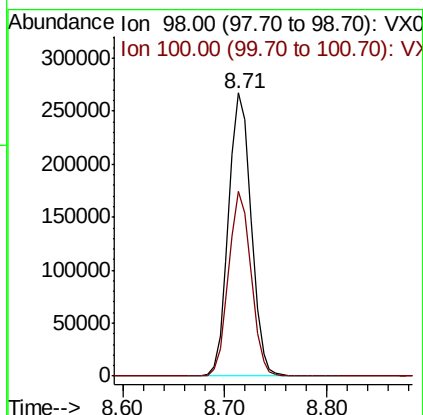
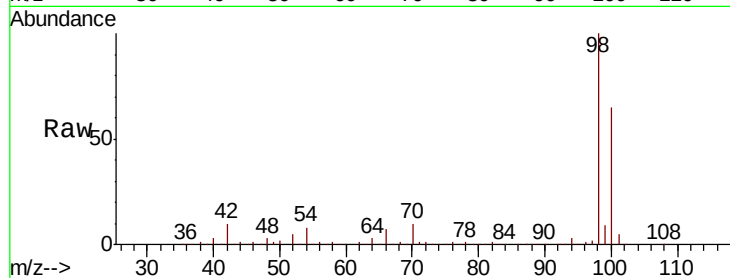




#50
Toluene-d8
Concen: 50.908 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010752.D
Acq: 09 Jul 2019 15:48

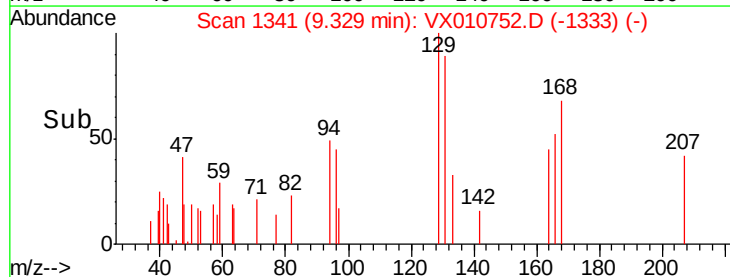
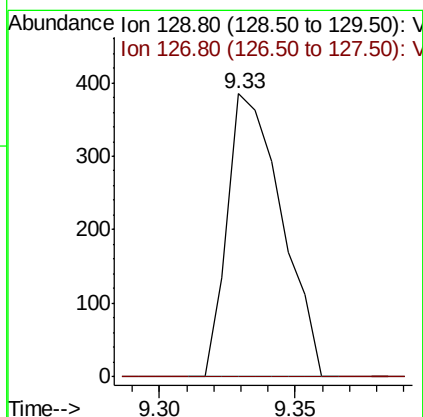
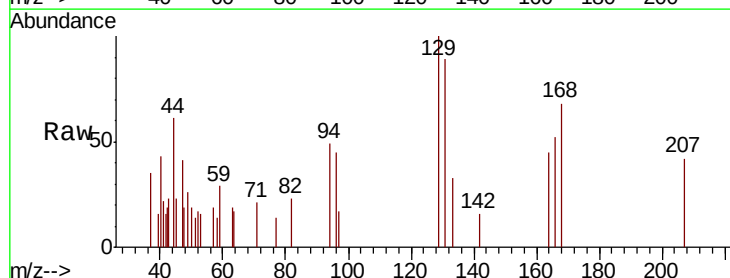
Instrument :
MSVOA_X
ClientSampleId :
WP022MW357-190705

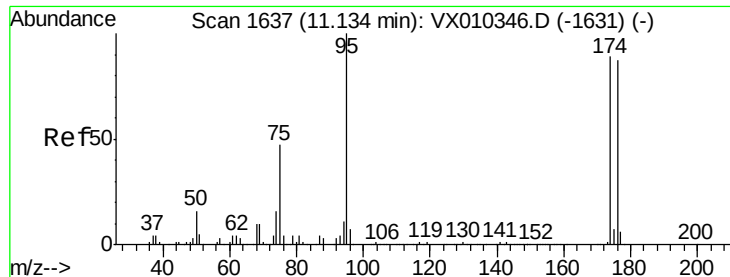
Tot Ion: 98 Resp: 410504
Ion Ratio Lower Upper
98 100
100 64.7 51.6 77.4



#60
Dibromochloromethane
Concen: 0.206 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.25 min
Lab File: VX010752.D
Acq: 09 Jul 2019 15:48

Tgt Ion: 129 Resp: 533
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.1#

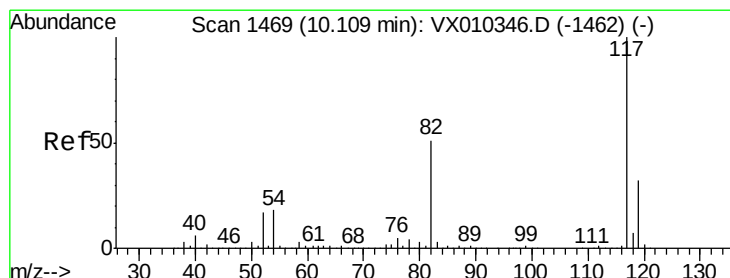
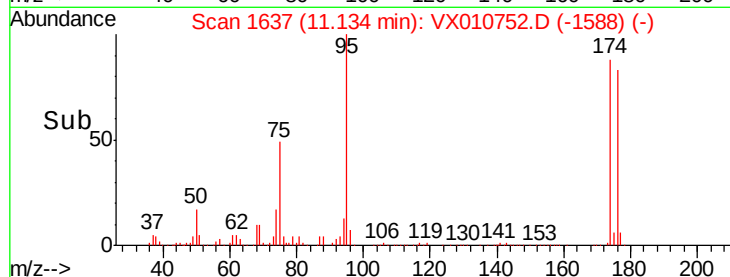
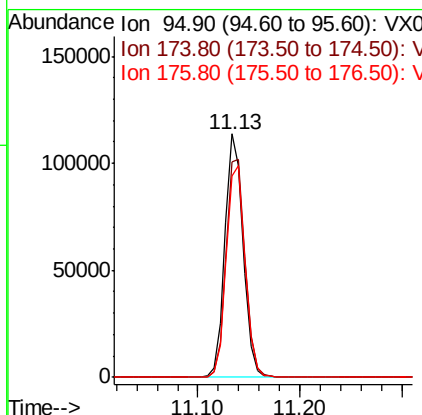
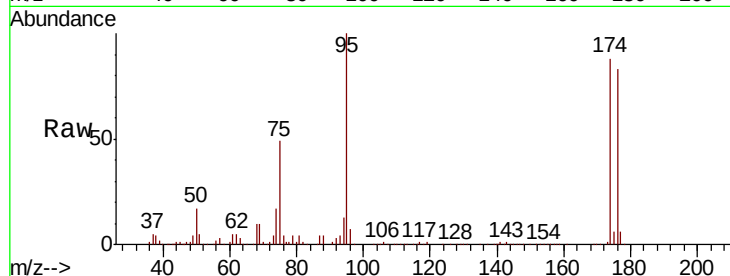




#62
4-Bromofluorobenzene
Concen: 48.389 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010752.D
Acq: 09 Jul 2019 15:48

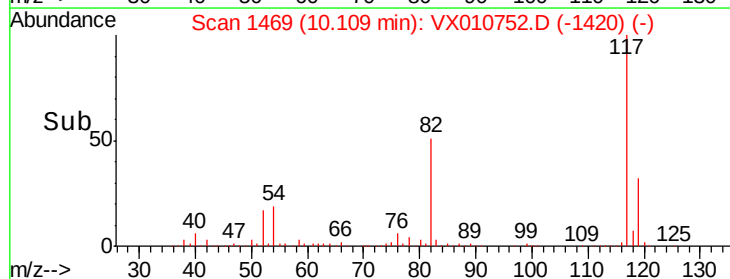
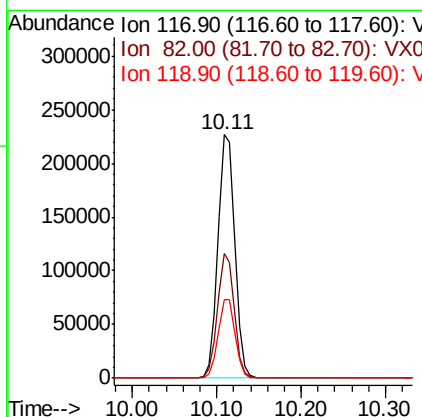
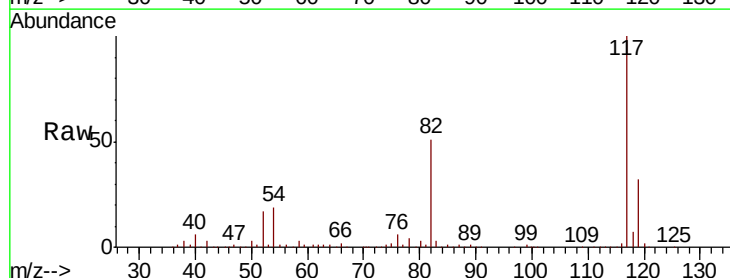
Instrument :
MSVOA_X
ClientSampleId :
WP022MW357-190705

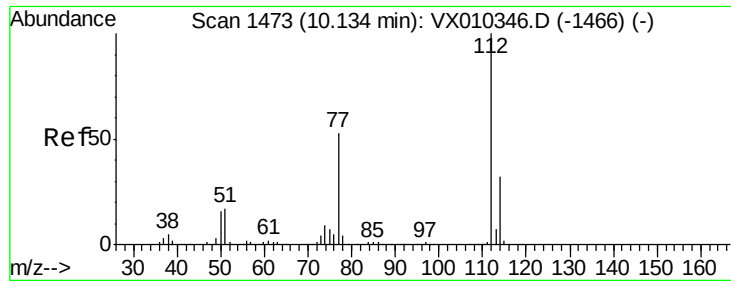
Tot Ion	Ratio	Lower	Upper
95	100		
174	93.8	0.0	187.6
176	89.6	0.0	184.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010752.D
Acq: 09 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.4	41.2	61.8
119	32.4	25.5	38.3





#65

Chlorobenzene

Concen: 10.263 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. 0.00 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

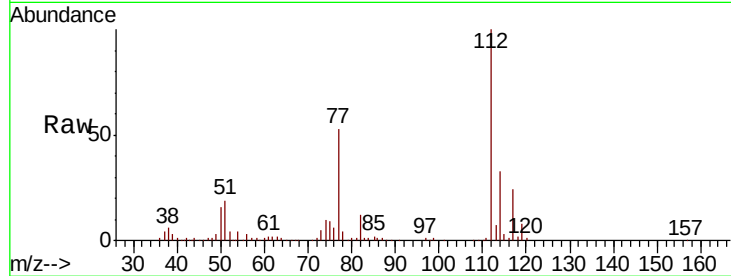
WP022MW357-190705

Tot Ion:112 Resp: 66316

Ion Ratio Lower Upper

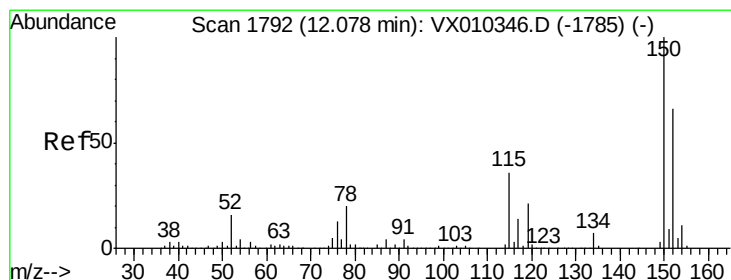
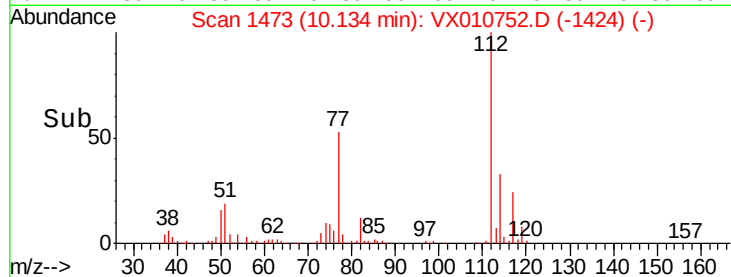
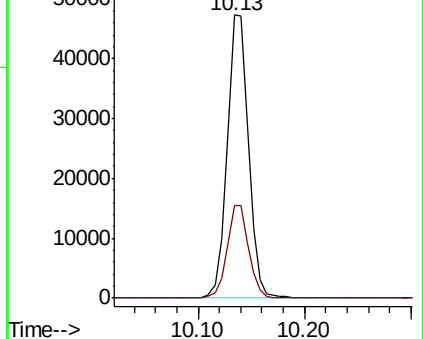
112 100

114 32.9 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010752.D

Acq: 09 Jul 2019 15:48

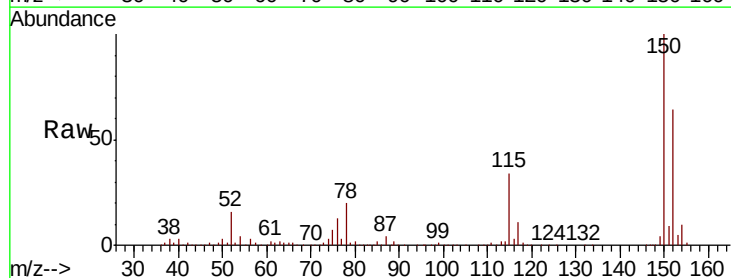
Tgt Ion:152 Resp: 148119

Ion Ratio Lower Upper

152 100

115 54.8 38.6 115.7

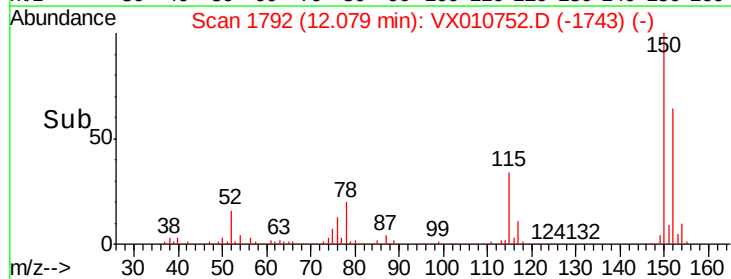
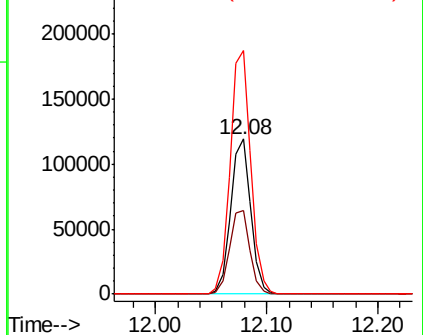
150 160.3 0.0 347.4

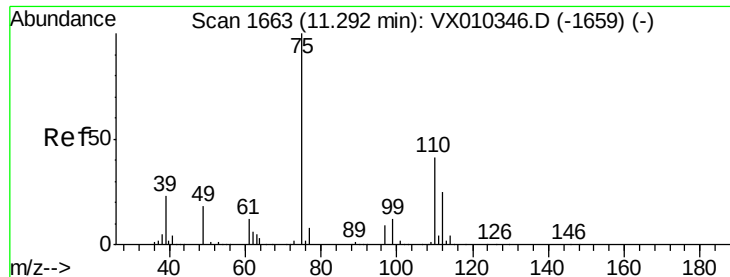


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

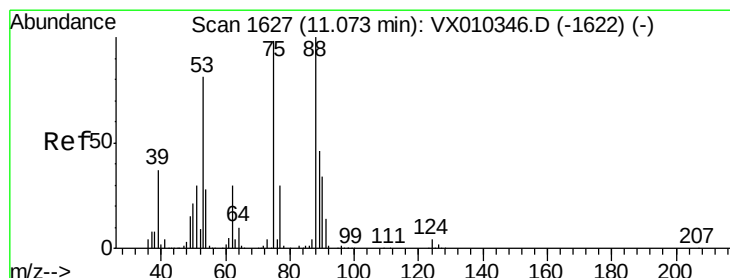
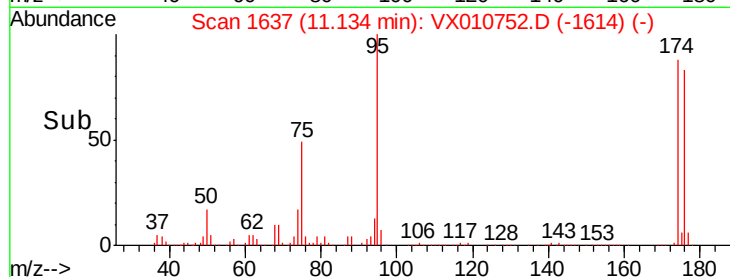
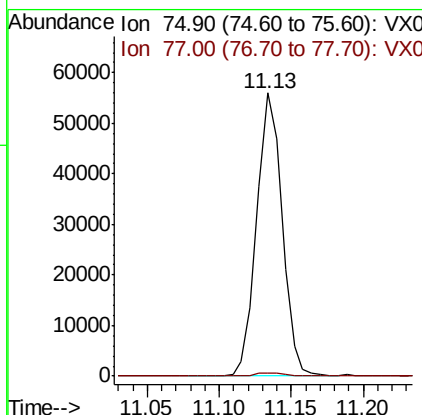
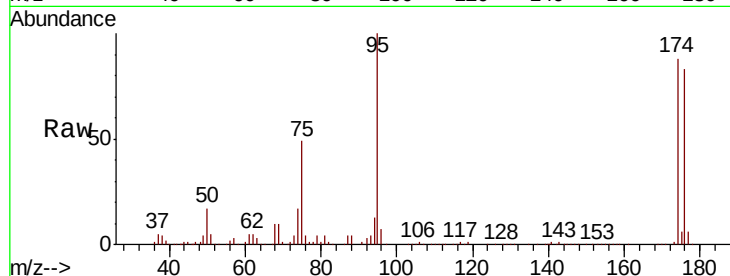




#76
 1,2,3-Trichloropropane
 Concen: 25.329 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010752.D
 Acq: 09 Jul 2019 15:48

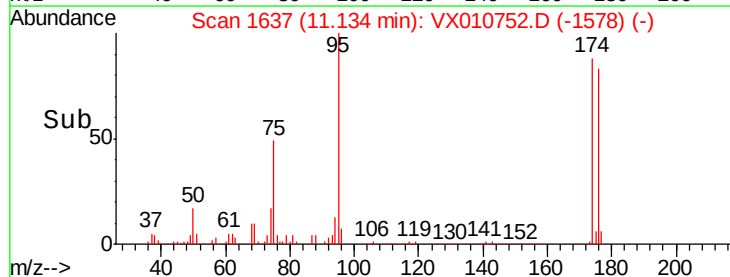
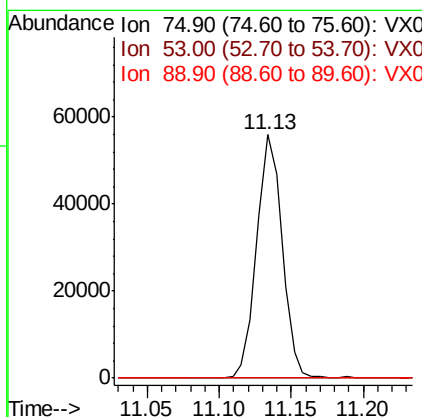
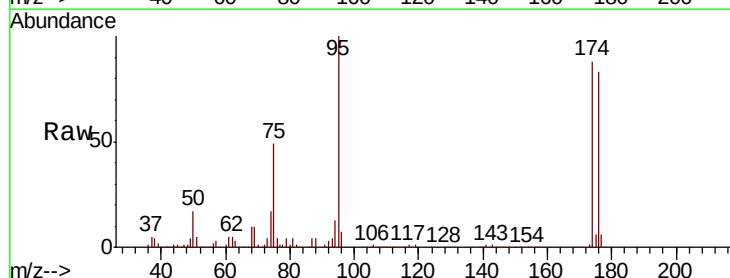
Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW357-190705

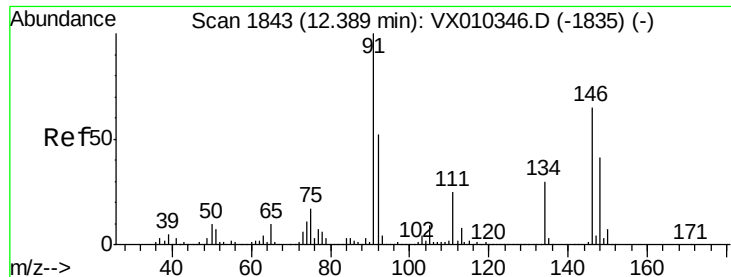
Tot Ion: 75 Resp: 68365
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.089 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010752.D
 Acq: 09 Jul 2019 15:48

Tgt Ion: 75 Resp: 68365
 Ion Ratio Lower Upper
 75 100
 53 0.1 66.1 99.1#
 89 0.0 37.8 56.6#





#91
 1,2-Dichlorobenzene
 Concen: 0.370 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX010752.D
 Acq: 09 Jul 2019 15:48

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW357-190705

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.2	57.6
148	72.6	32.0	96.0

