

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041520\
 Data File : VX015694.D
 Acq On : 15 Apr 2020 19:24
 Operator : JC/SP
 Sample : L2233-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW146-200408

Quant Time: Apr 16 05:58:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1021869	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1608592	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1552542	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	850998	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	628393	43.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.20%	
35) Dibromofluoromethane	5.47	113	495256	48.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
50) Toluene-d8	8.70	98	1895901	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
62) 4-Bromofluorobenzene	11.12	95	824951	53.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.24%	

Target Compounds

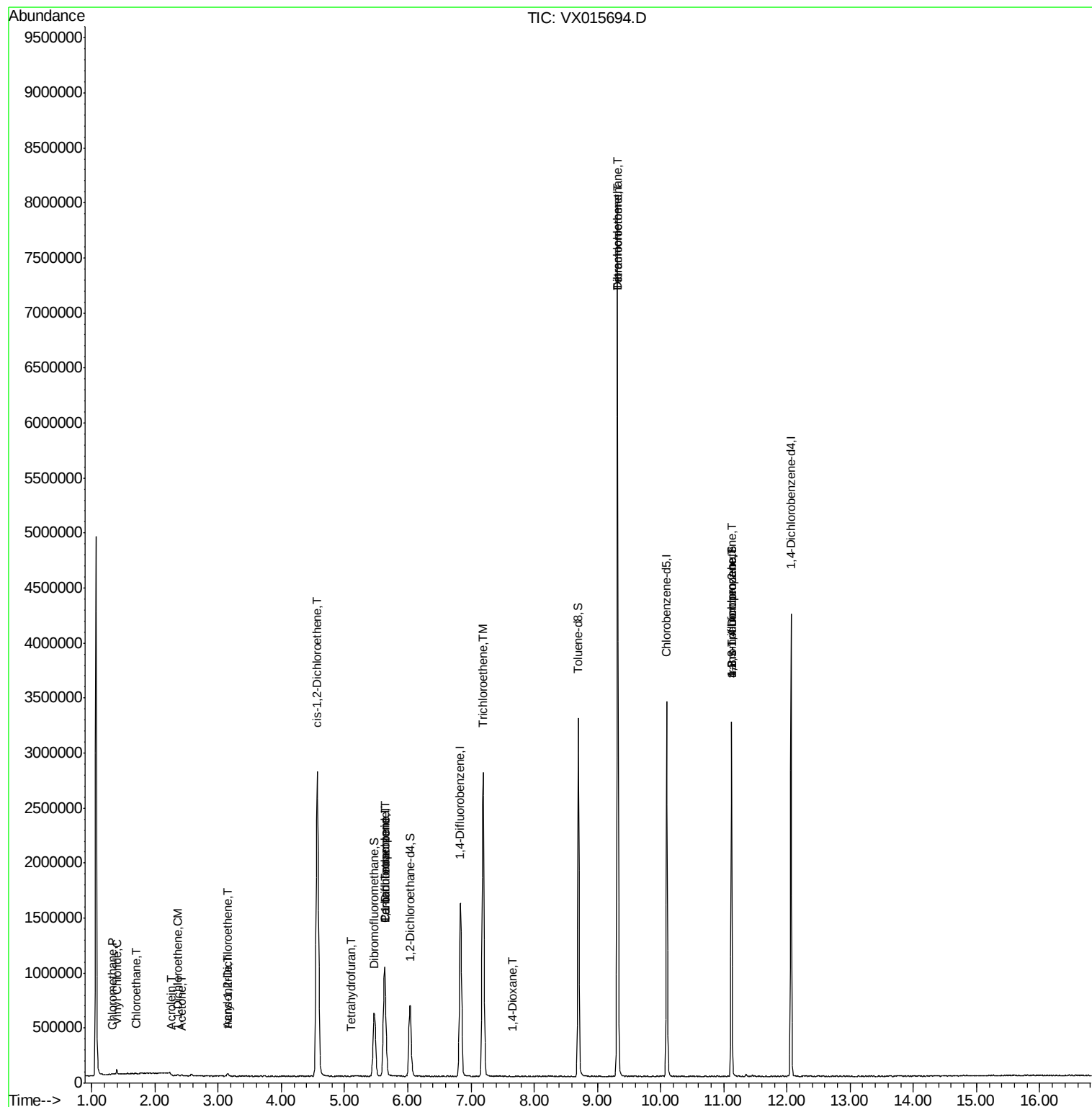
						Qvalue
3) Chloromethane	1.31	50	3413	0.298	ug/l #	73
4) Vinyl Chloride	1.39	62	25492	2.421	ug/l	99
5) Bromomethane	1.64	94	1096	Below Cal	#	53
6) Chloroethane	1.70	64	1501	0.230	ug/l #	49
12) 1,1-Dichloroethene	2.36	96	4430	0.459	ug/l #	77
13) Acrolein	2.27	56	2059	1.048	ug/l #	26
15) Acrylonitrile	3.15	53	1565	0.238	ug/l #	17
16) Acetone	2.42	43	13568	2.191	ug/l	91
21) trans-1,2-Dichloroethene	3.15	96	9130	0.853	ug/l	93
27) cis-1,2-Dichloroethene	4.57	96	1720086	138.858	ug/l	90
29) Tetrahydrofuran	5.11	42	3267	0.510	ug/l #	70
36) 1,1-Dichloropropene	5.64	75	71229	4.806	ug/l #	54
38) Carbon Tetrachloride	5.64	117	93861	5.847	ug/l #	15
44) Trichloroethene	7.19	130	1073239	90.641	ug/l	97
49) 1,4-Dioxane	7.65	88	219	0.721	ug/l #	1
60) Dibromochloromethane	9.32	129	1399662	106.214	ug/l #	11
64) Tetrachloroethene	9.32	164	1569097	133.920	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	404796	23.131	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	404796	55.502	ug/l #	10

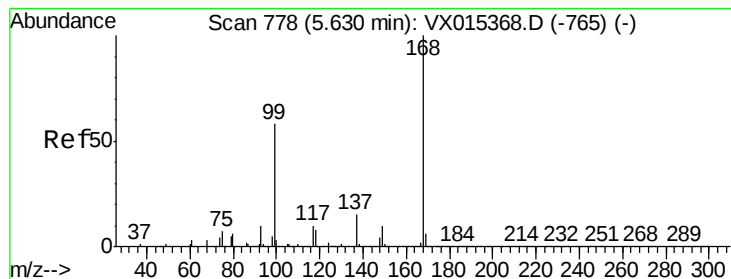
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

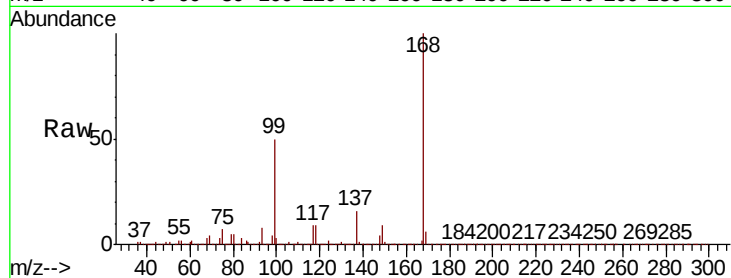
ST008MW146-200408

Tot Ion:168 Resp: 1021869

Ion Ratio Lower Upper

168 100

99 49.9 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

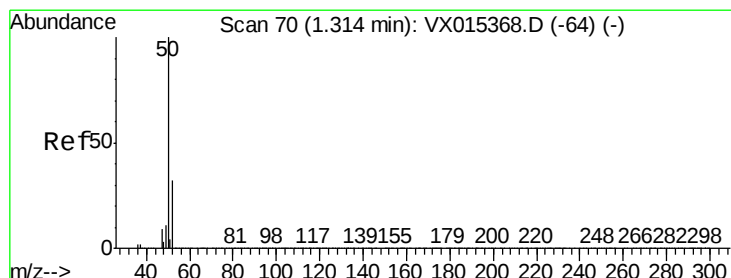
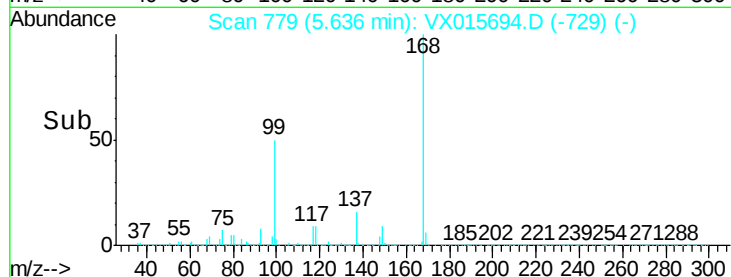
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.298 ug/l

RT: 1.31 min Scan# 70

Delta R.T. 0.00 min

Lab File: VX015694.D

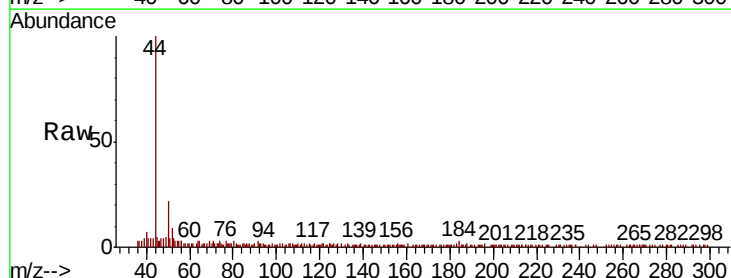
Acq: 15 Apr 2020 19:24

Tgt Ion: 50 Resp: 3413

Ion Ratio Lower Upper

50 100

52 46.4 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

4000

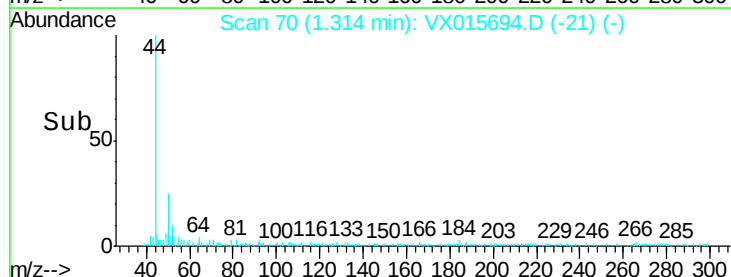
3000

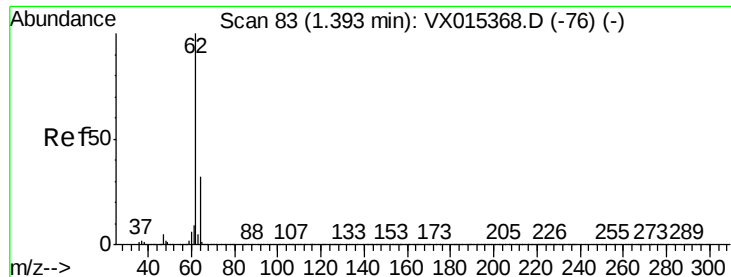
2000

1000

0

Time-->





#4

Vinyl Chloride

Concen: 2.421 ug/l

RT: 1.39 min Scan# 83

Delta R.T. 0.00 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

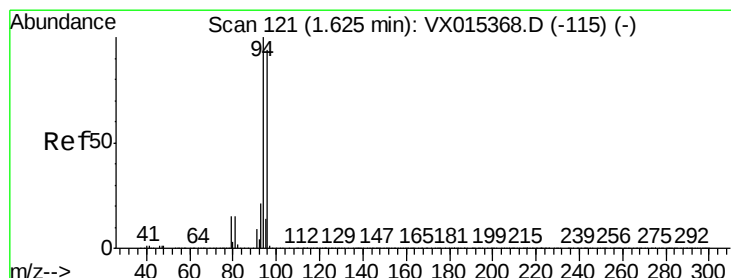
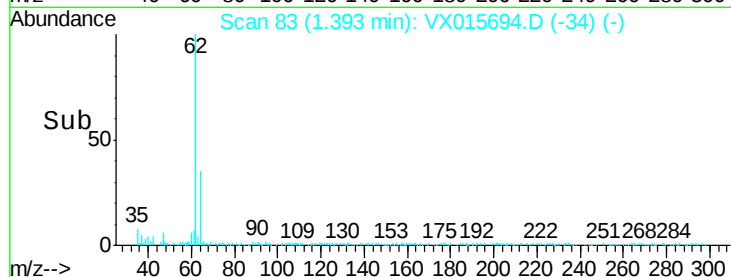
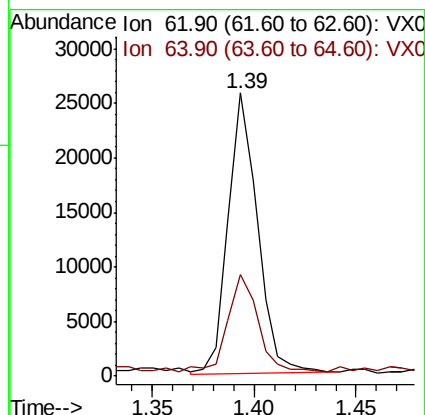
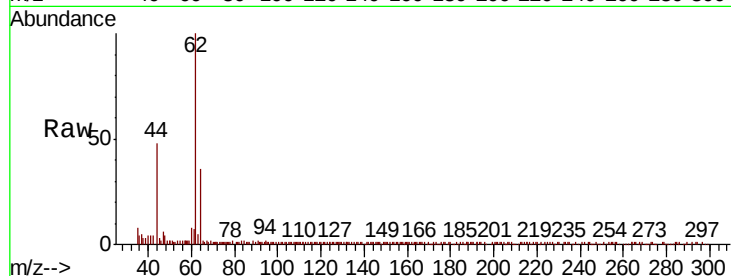
ST008MW146-200408

Tot Ion: 62 Resp: 25492

Ion Ratio Lower Upper

62 100

64 33.3 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015694.D

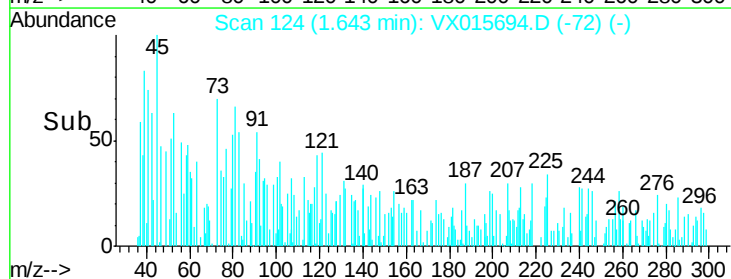
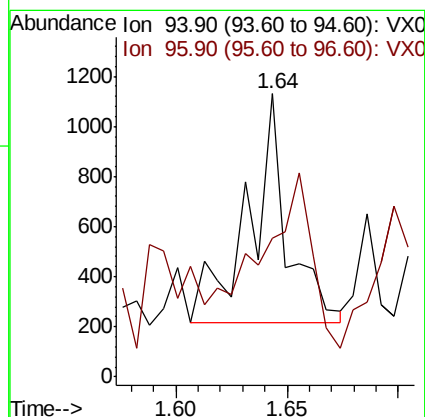
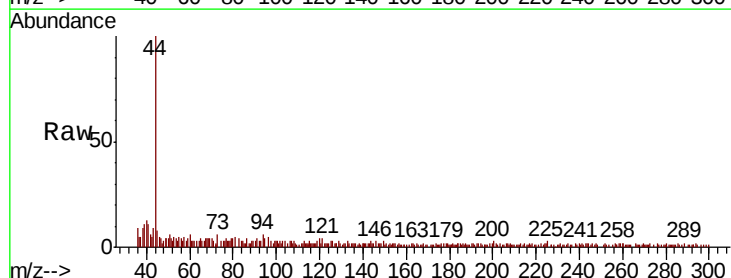
Acq: 15 Apr 2020 19:24

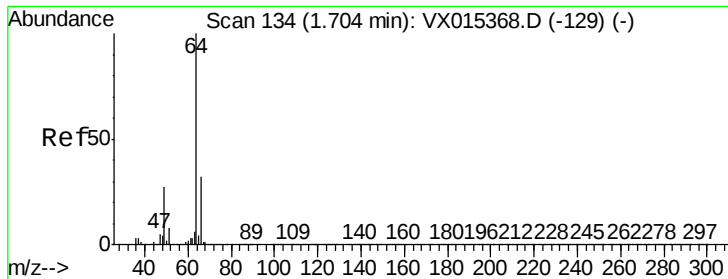
Tgt Ion: 94 Resp: 1096

Ion Ratio Lower Upper

94 100

96 48.1 74.8 112.2#





#6

Chloroethane

Concen: 0.230 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

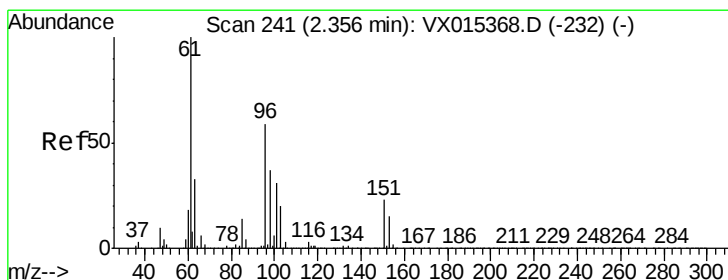
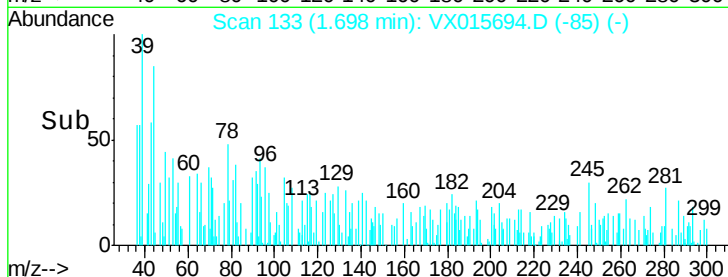
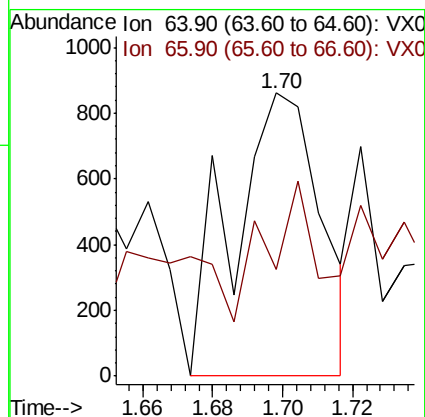
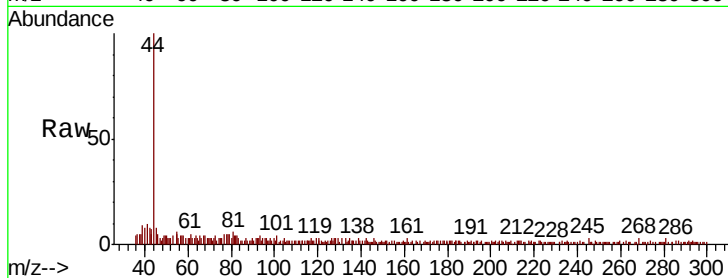
ST008MW146-200408

Tot Ion: 64 Resp: 1501

Ion Ratio Lower Upper

64 100

66 3.3 25.4 38.2#



#12

1,1-Dichloroethene

Concen: 0.459 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.01 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

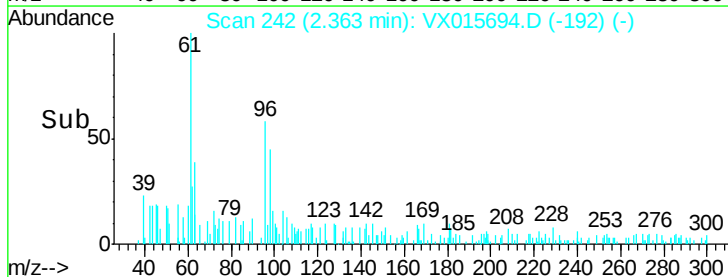
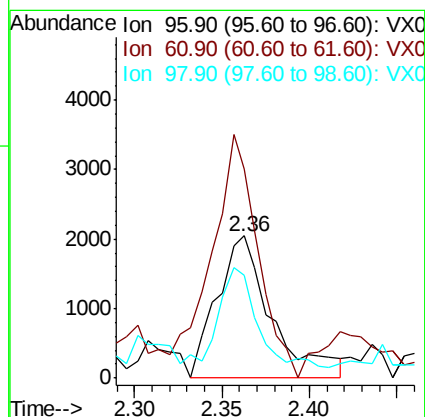
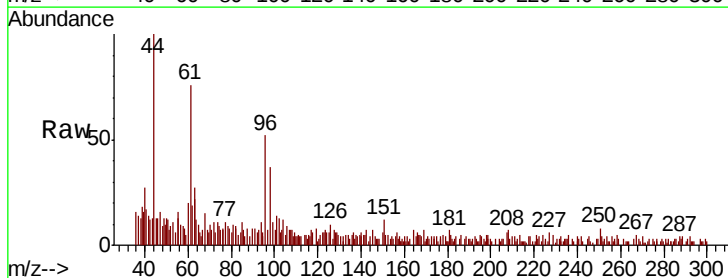
Tgt Ion: 96 Resp: 4430

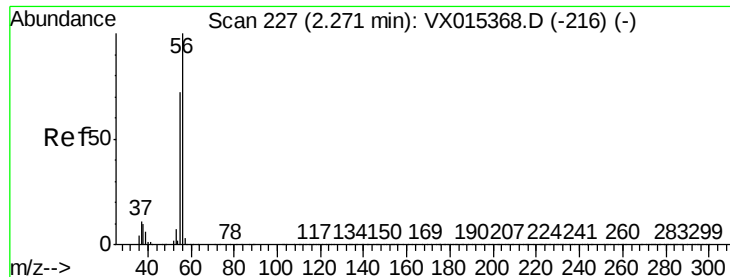
Ion Ratio Lower Upper

96 100

61 132.7 135.7 203.5#

98 72.4 50.6 75.8





#13

Acrolein

Concen: 1.048 ug/l

RT: 2.27 min Scan# 226

Delta R.T. -0.01 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

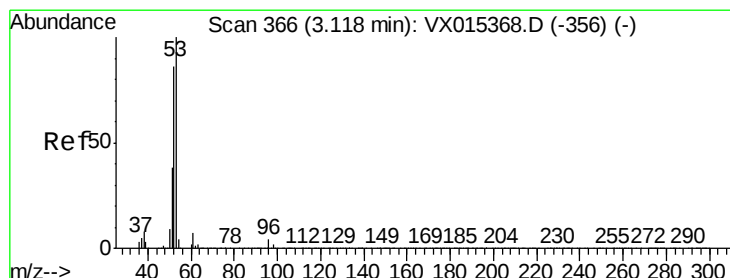
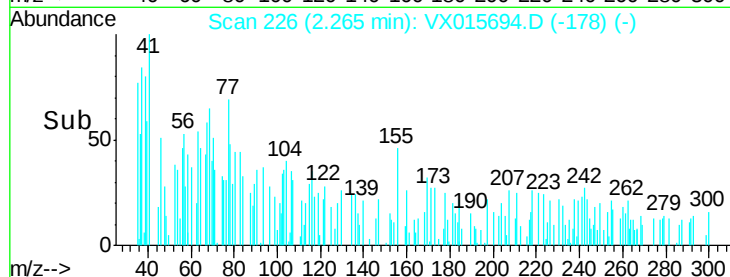
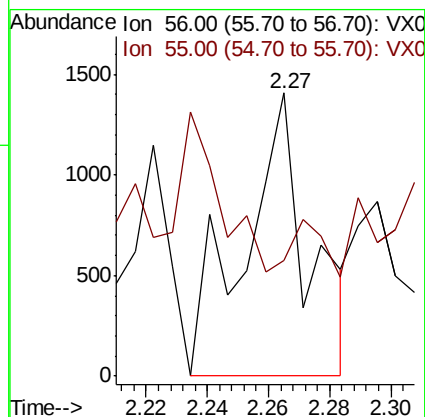
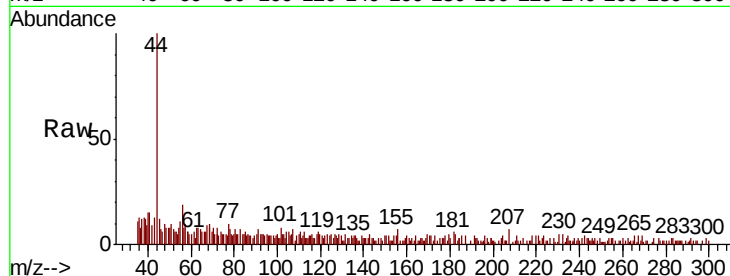
ST008MW146-200408

Tot Ion: 56 Resp: 2059

Ion Ratio Lower Upper

56 100

55 10.0 57.0 85.4#



#15

Acrylonitrile

Concen: 0.238 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.03 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

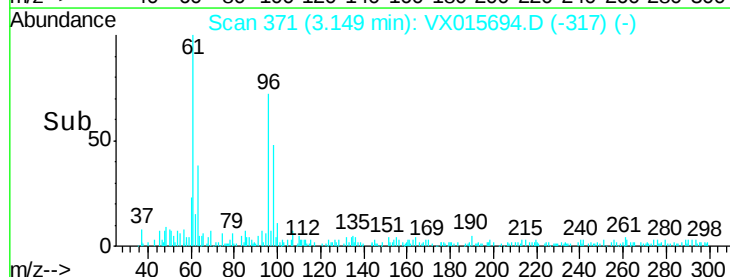
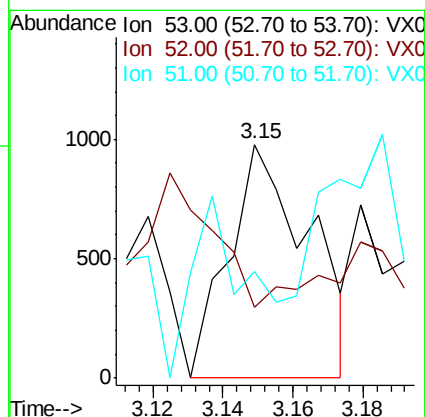
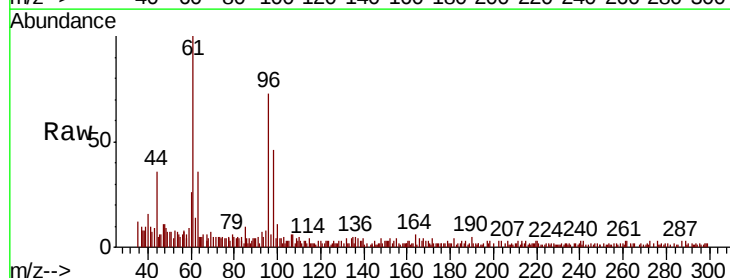
Tgt Ion: 53 Resp: 1565

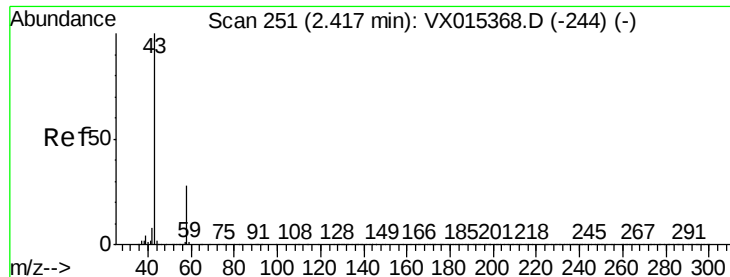
Ion Ratio Lower Upper

53 100

52 0.0 66.8 100.2#

51 0.0 29.5 44.3#





#16

Acetone

Concen: 2.191 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

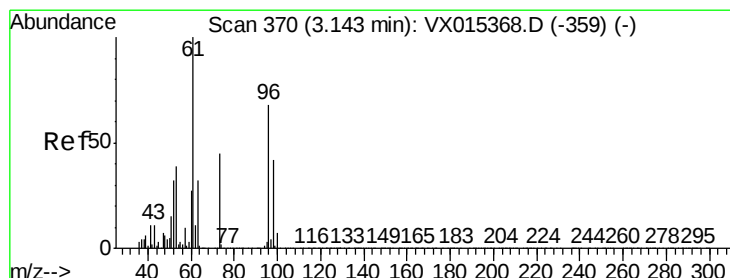
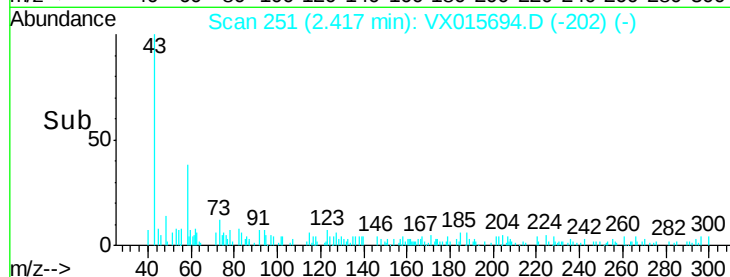
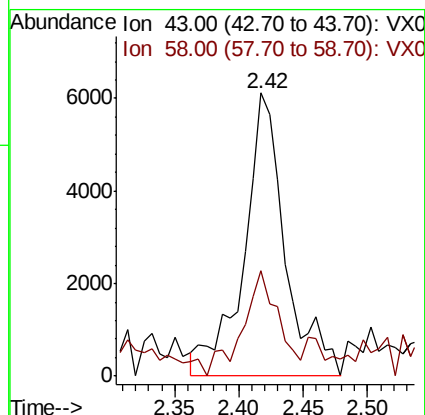
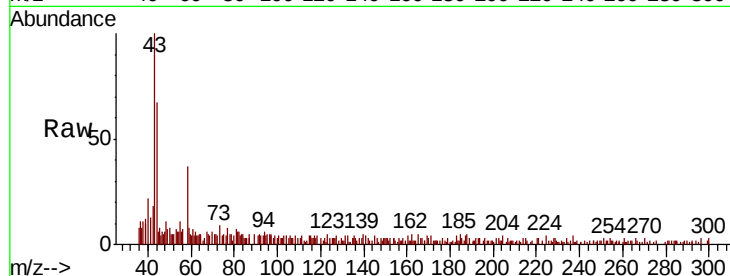
ST008MW146-200408

Tot Ion: 43 Resp: 13568

Ion Ratio Lower Upper

43 100

58 32.3 22.1 33.1



#21

trans-1,2-Dichloroethene

Concen: 0.853 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.01 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

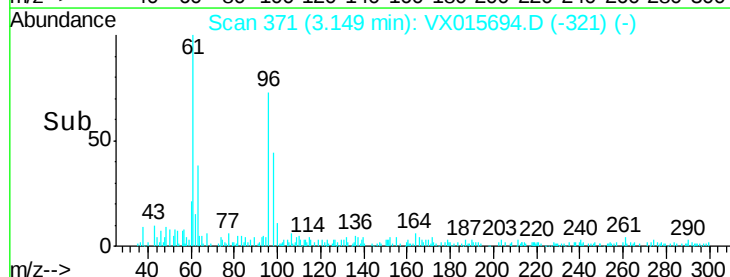
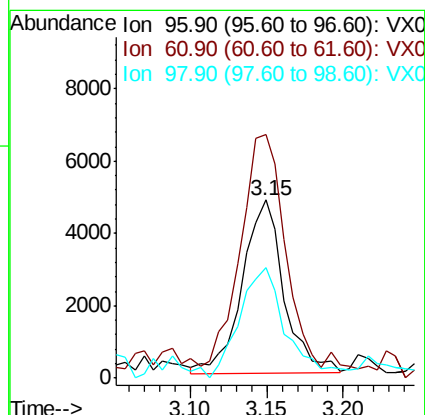
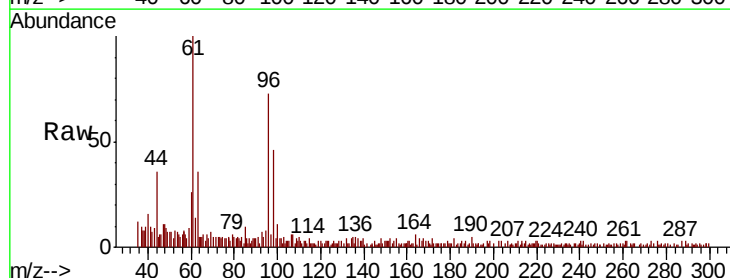
Tgt Ion: 96 Resp: 9130

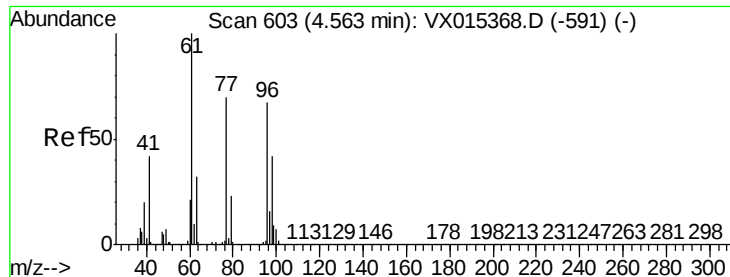
Ion Ratio Lower Upper

96 100

61 134.4 116.9 175.3

98 60.9 48.6 73.0



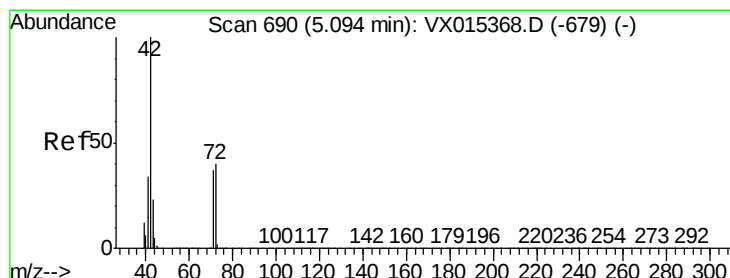
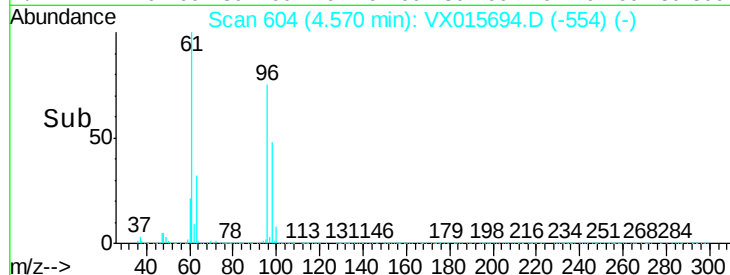
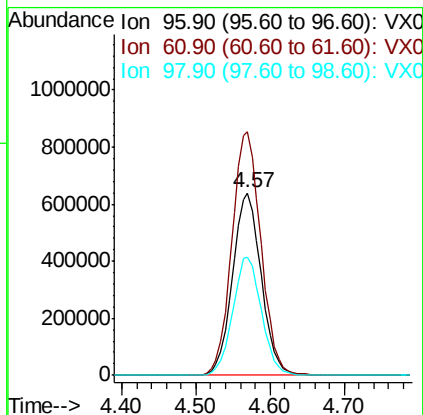
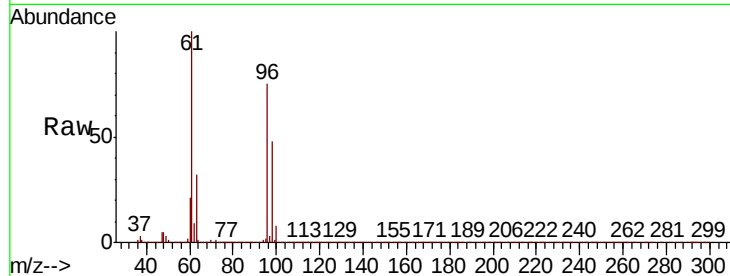


#27

cis-1,2-Dichloroethene
 Concen: 138.858 ug/l
 RT: 4.57 min Scan# 604
 Delta R.T. 0.01 min
 Lab File: VX015694.D
 Acq: 15 Apr 2020 19:24

Instrument :
 MSVOA_X
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 ST008MW146-200408

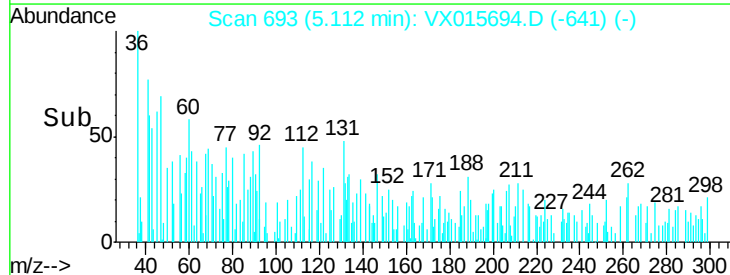
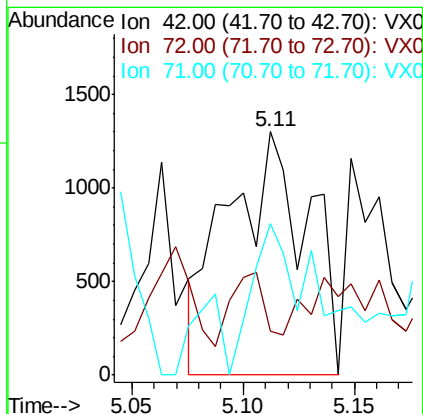
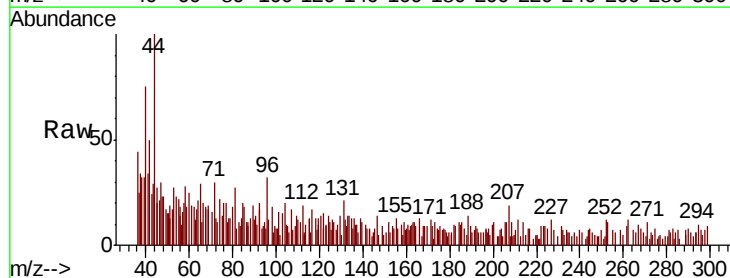
Tot Ion: 96 Resp: 1720086
 Ion Ratio Lower Upper
 96 100
 61 135.6 0.0 308.4
 98 65.2 0.0 129.2

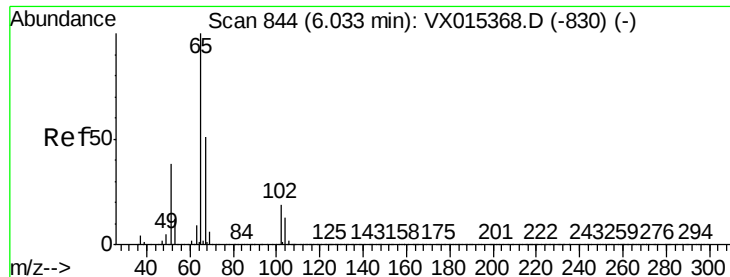


#29

Tetrahydrofuran
 Concen: 0.510 ug/l
 RT: 5.11 min Scan# 693
 Delta R.T. 0.02 min
 Lab File: VX015694.D
 Acq: 15 Apr 2020 19:24

Tgt Ion: 42 Resp: 3267
 Ion Ratio Lower Upper
 42 100
 72 18.6 31.7 47.5#
 71 52.1 29.6 44.4#





#33

1,2-Dichloroethane-d4

Concen: 43.601 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

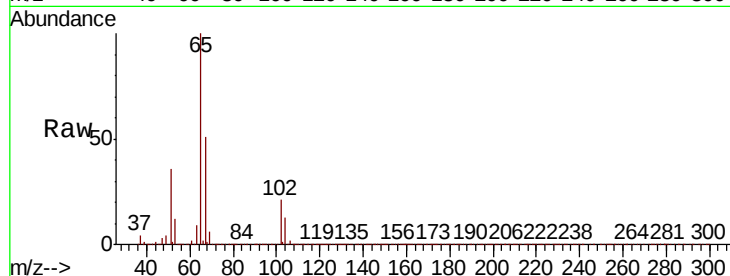
ST008MW146-200408

Tot Ion: 65 Resp: 628393

Ion Ratio Lower Upper

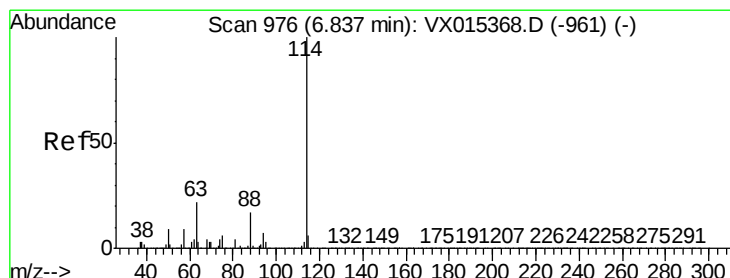
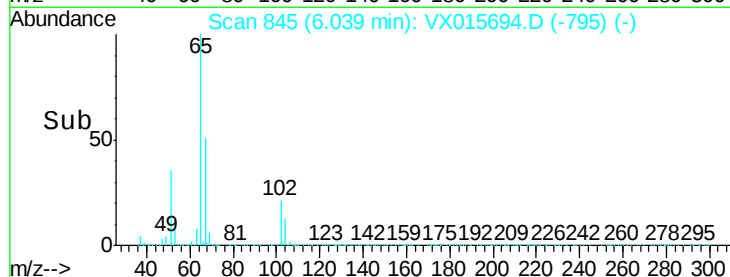
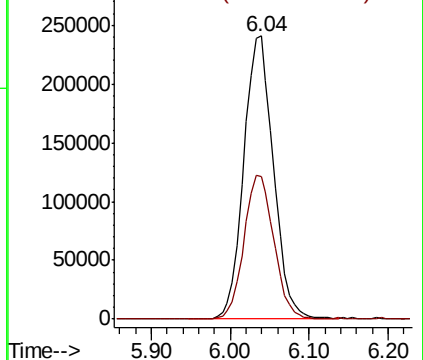
65 100

67 51.2 0.0 102.6



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: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

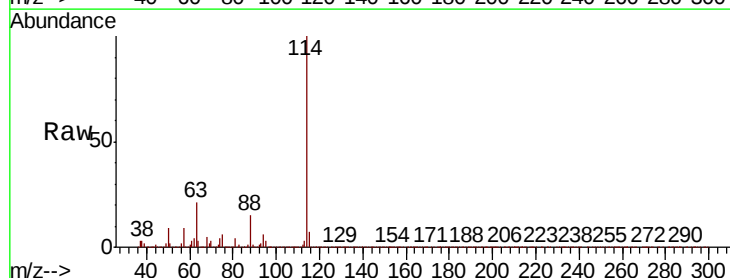
Tgt Ion: 114 Resp: 1608592

Ion Ratio Lower Upper

114 100

63 20.7 0.0 44.2

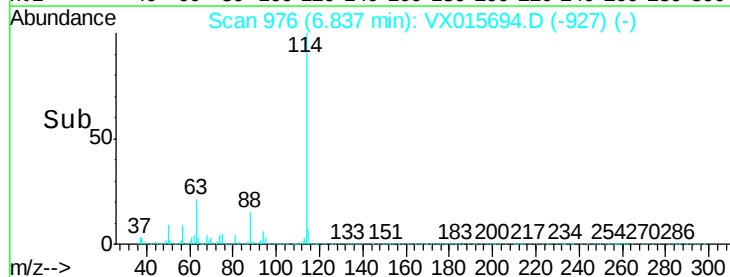
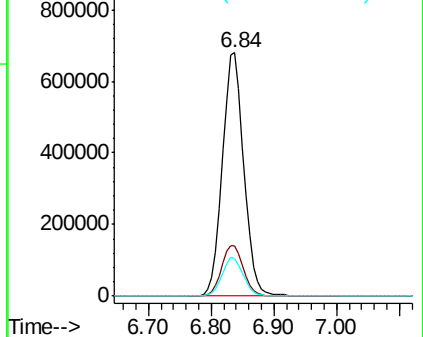
88 15.2 0.0 33.8

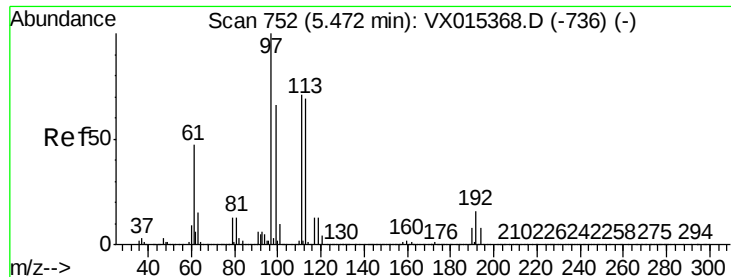


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

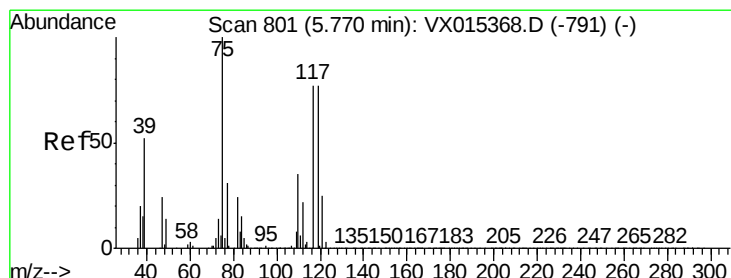
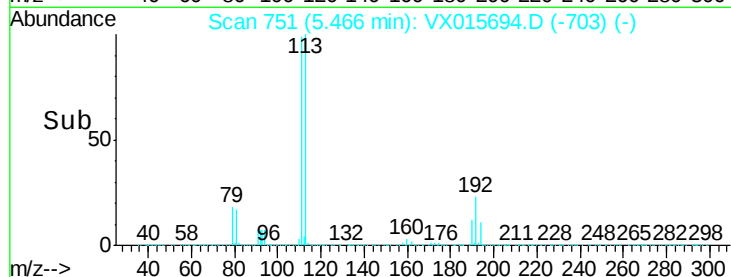
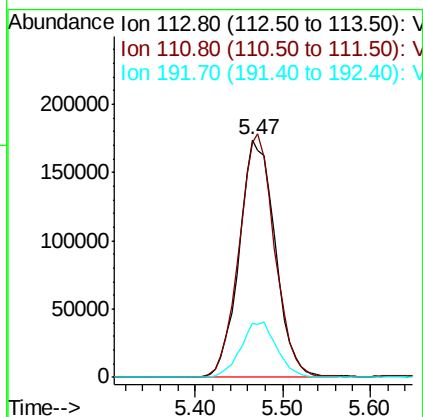
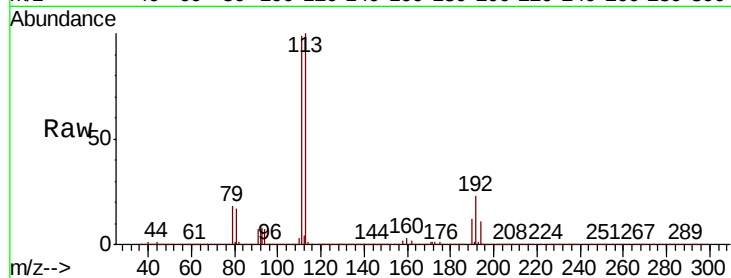




#35
Dibromofluoromethane
Concen: 48.165 ug/l
RT: 5.47 min Scan# 751
Delta R.T. -0.01 min
Lab File: VX015694.D
Acq: 15 Apr 2020 19:24

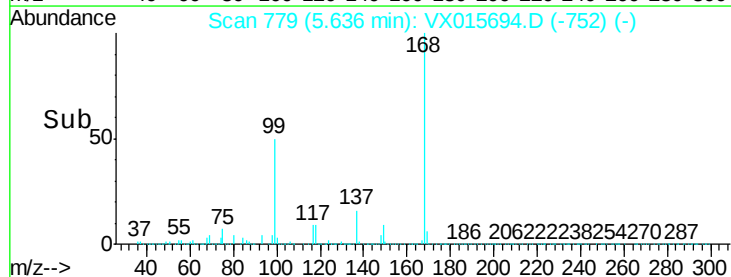
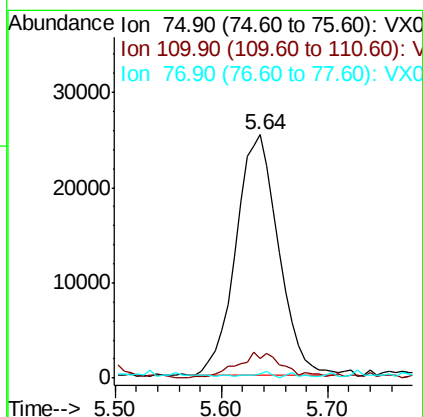
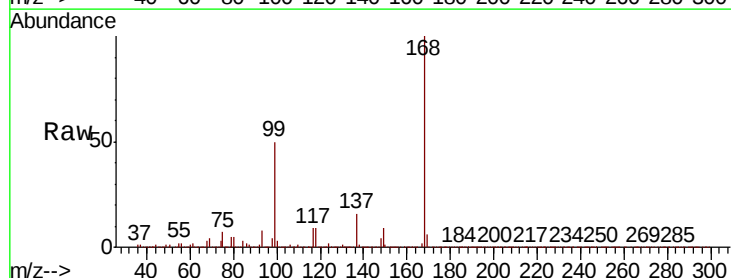
Instrument :
MSVOA_X
ClientSampleId :
ST008MW146-200408

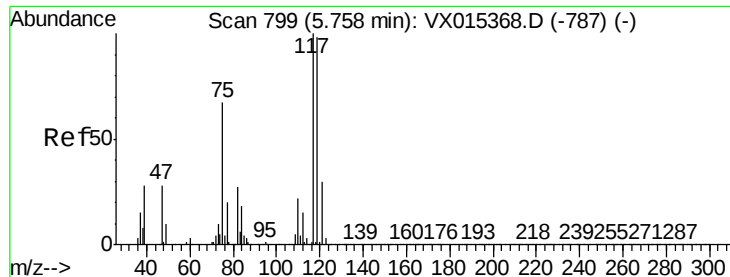
Tot Ion:113 Resp: 495256
Ion Ratio Lower Upper
113 100
111 100.8 81.5 122.3
192 23.3 17.8 26.6



#36
1,1-Dichloropropene
Concen: 4.806 ug/l
RT: 5.64 min Scan# 779
Delta R.T. -0.13 min
Lab File: VX015694.D
Acq: 15 Apr 2020 19:24

Tgt Ion: 75 Resp: 71229
Ion Ratio Lower Upper
75 100
110 11.8 17.1 51.3#
77 1.2 24.6 36.8#

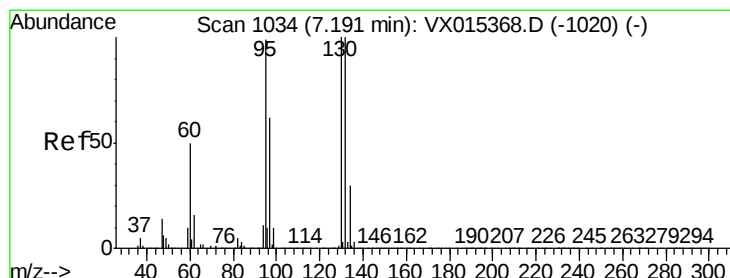
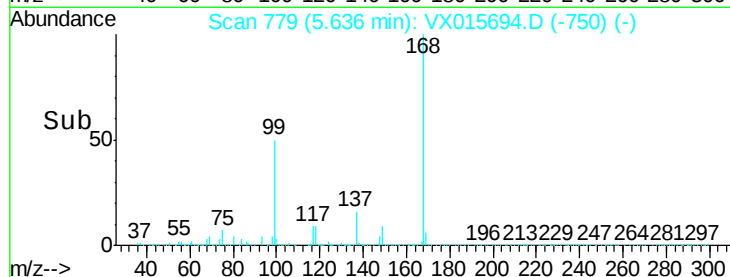
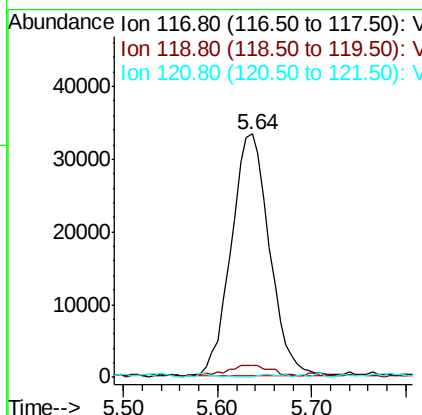
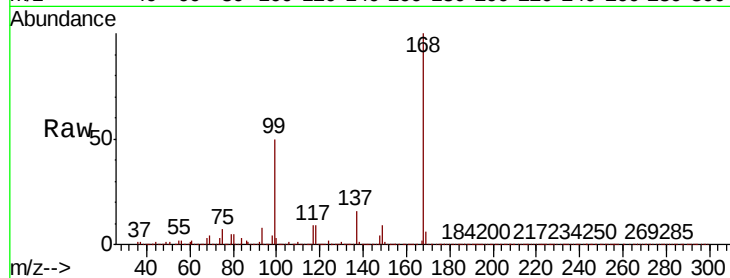




#38
Carbon Tetrachloride
Concen: 5.847 ug/l
RT: 5.64 min Scan# 779
Delta R.T. -0.12 min
Lab File: VX015694.D
Acq: 15 Apr 2020 19:24

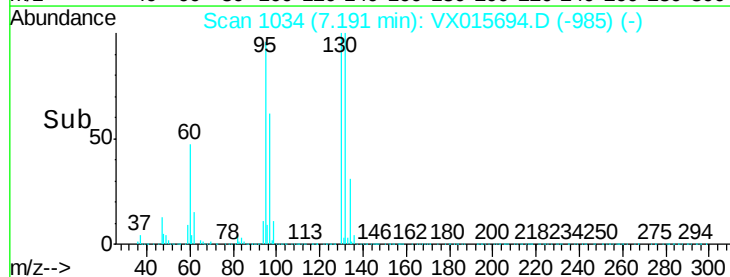
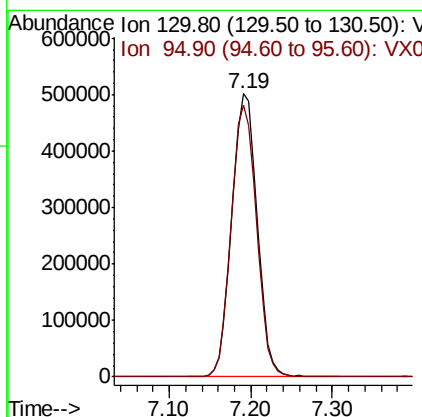
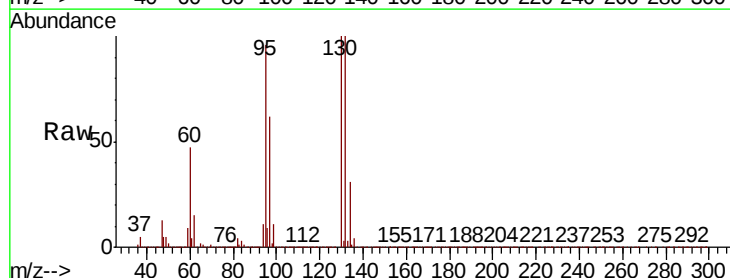
Instrument :
MSVOA_X
ClientSampleId :
ST008MW146-200408

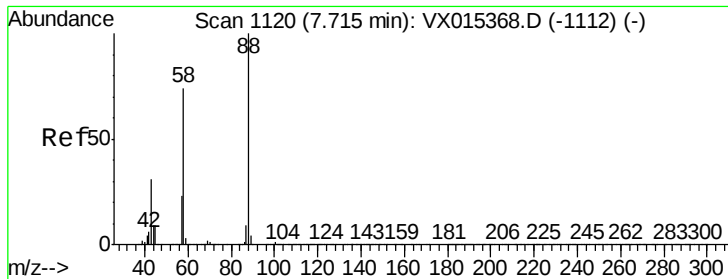
Tot Ion:117 Resp: 93861
Ion Ratio Lower Upper
117 100
119 4.2 78.0 117.0#
121 0.0 23.8 35.8#



#44
Trichloroethene
Concen: 90.641 ug/l
RT: 7.19 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VX015694.D
Acq: 15 Apr 2020 19:24

Tgt Ion:130 Resp: 1073239
Ion Ratio Lower Upper
130 100
95 96.0 0.0 199.0





#49

1,4-Dioxane

Concen: 0.721 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.06 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

ST008MW146-200408

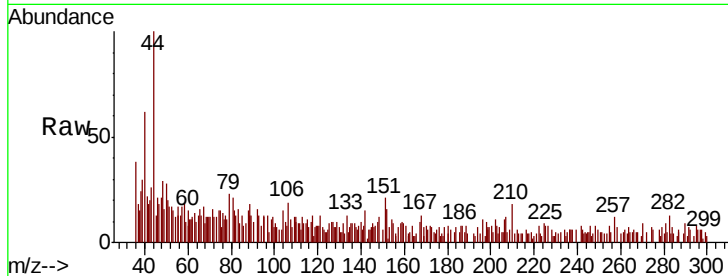
Tot Ion: 88 Resp: 219

Ion Ratio Lower Upper

88 100

43 296.8 30.1 45.1#

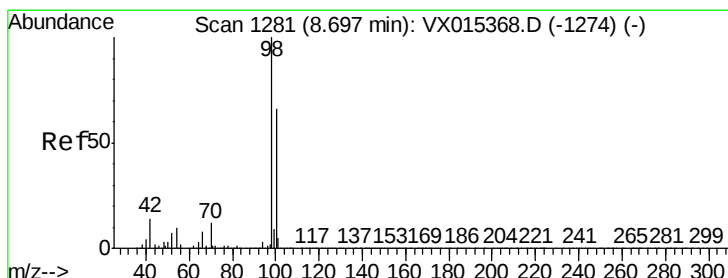
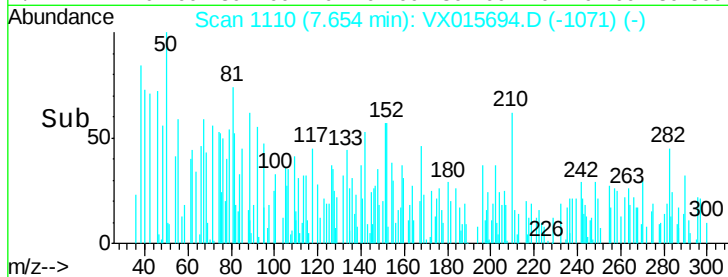
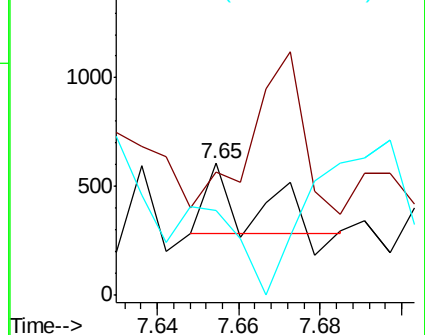
58 0.0 60.6 90.8#



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



#50

Toluene-d8

Concen: 50.080 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015694.D

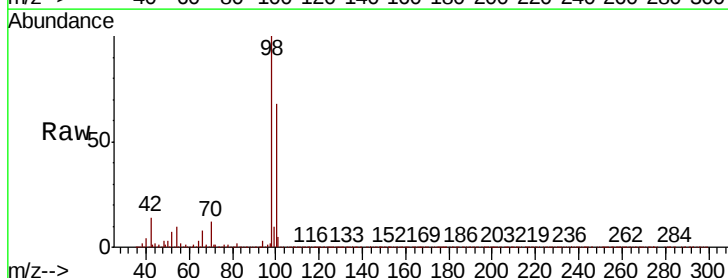
Acq: 15 Apr 2020 19:24

Tgt Ion: 98 Resp: 1895901

Ion Ratio Lower Upper

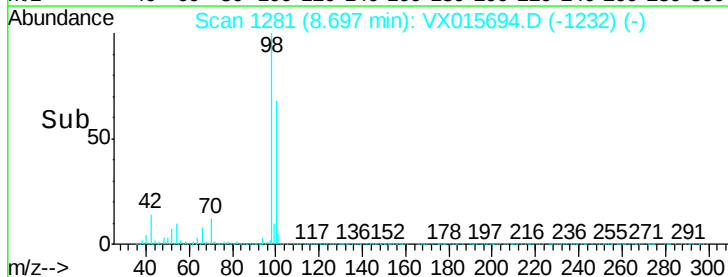
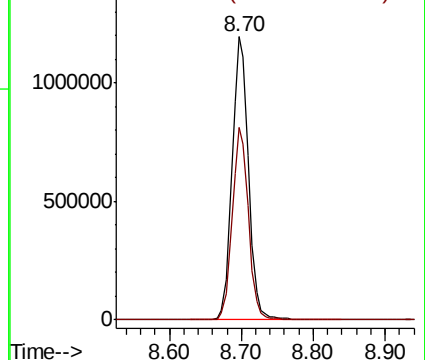
98 100

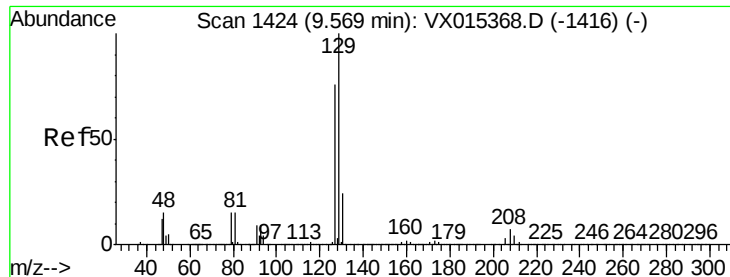
100 67.3 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 106.214 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. -0.25 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

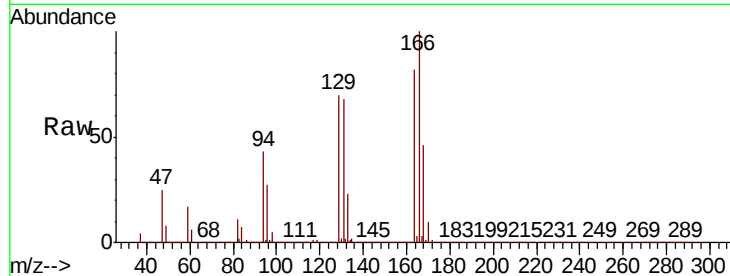
ST008MW146-200408

Tot Ion:129 Resp: 1399662

Ion Ratio Lower Upper

129 100

127 0.1 38.2 114.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

1000000

800000

600000

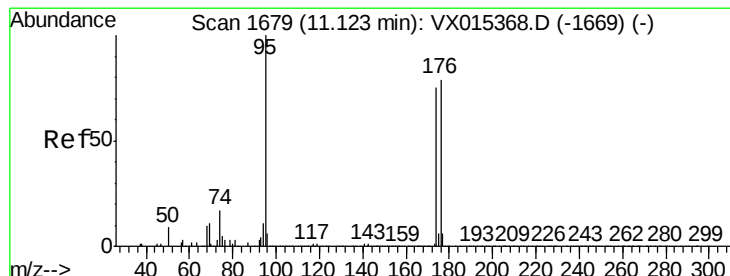
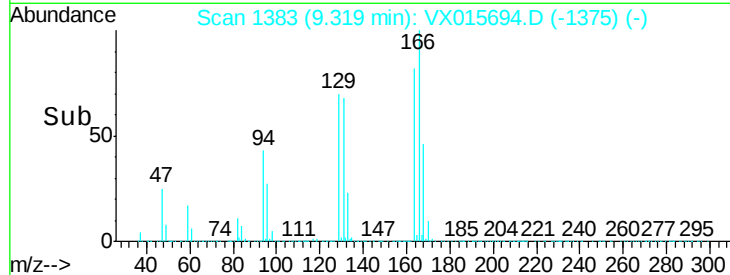
400000

200000

0

9.30 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 53.619 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

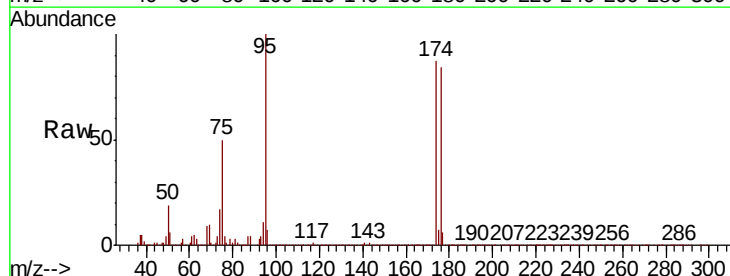
Tgt Ion: 95 Resp: 824951

Ion Ratio Lower Upper

95 100

174 83.6 0.0 158.6

176 82.4 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.12

800000

600000

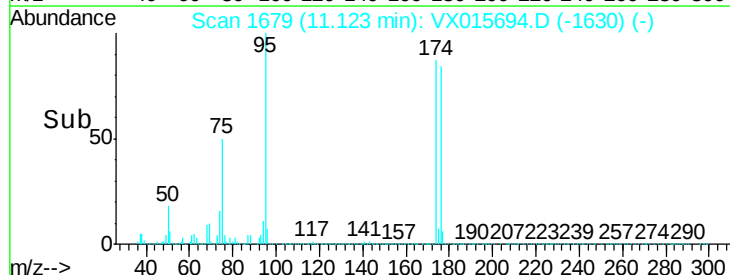
400000

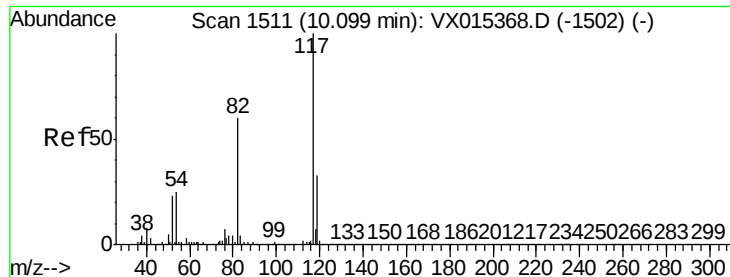
200000

0

11.10 11.20

Time-->

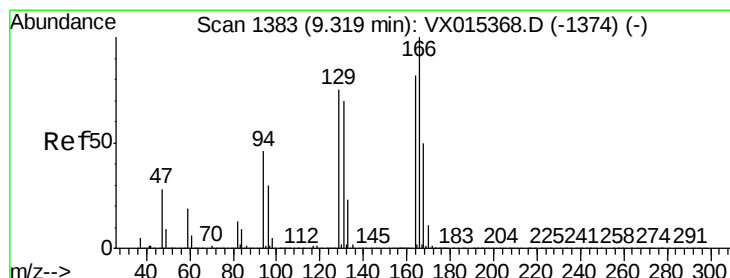
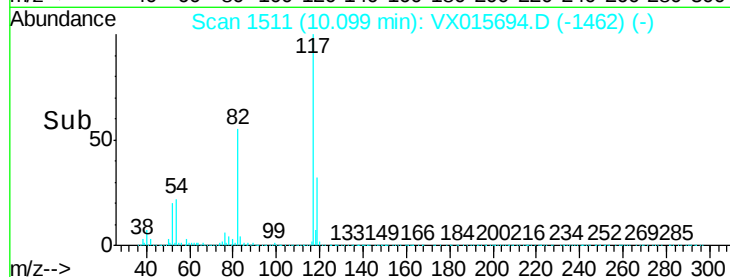
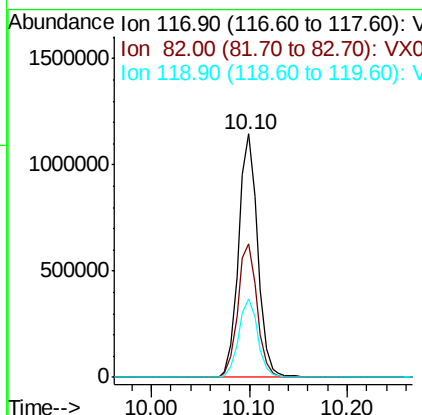
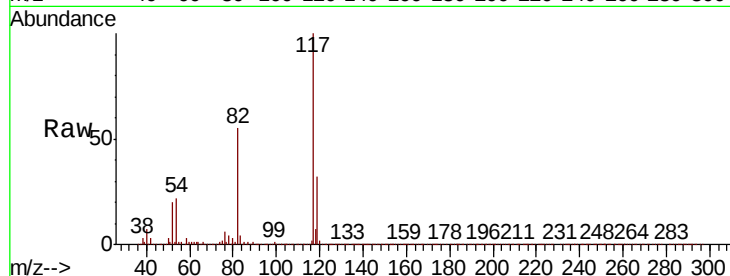




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015694.D
Acq: 15 Apr 2020 19:24

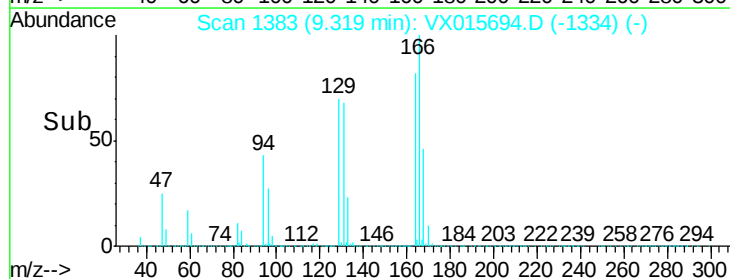
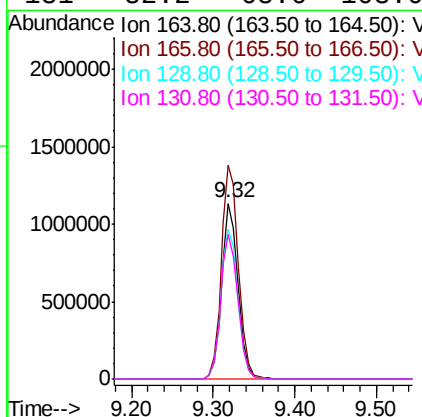
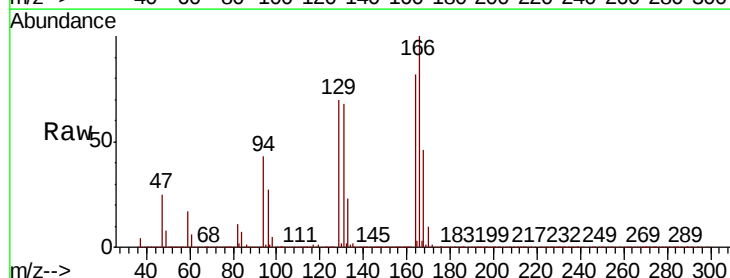
Instrument :
MSVOA_X
ClientSampleId :
ST008MW146-200408

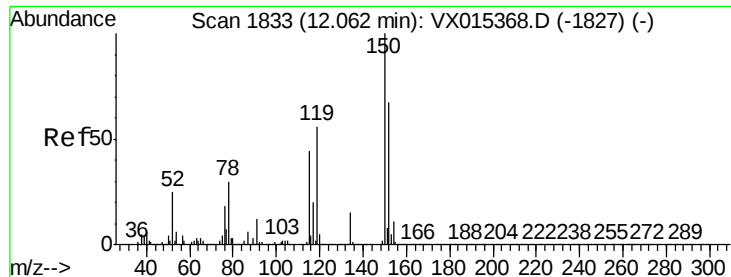
Tot Ion:117 Resp: 1552542
Ion Ratio Lower Upper
117 100
82 54.8 47.8 71.8
119 32.2 26.8 40.2



#64
Tetrachloroethene
Concen: 133.920 ug/l
RT: 9.32 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VX015694.D
Acq: 15 Apr 2020 19:24

Tgt Ion:164 Resp: 1569097
Ion Ratio Lower Upper
164 100
166 121.7 97.8 146.6
129 85.0 73.0 109.4
131 82.2 68.6 103.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

ST008MW146-200408

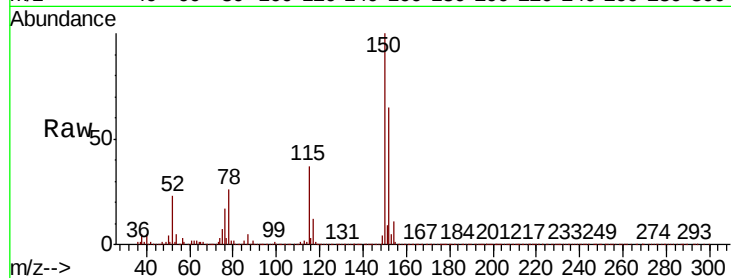
Tot Ion:152 Resp: 850998

Ion Ratio Lower Upper

152 100

115 57.0 39.0 116.9

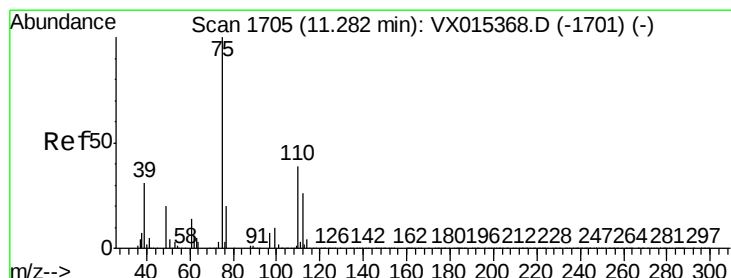
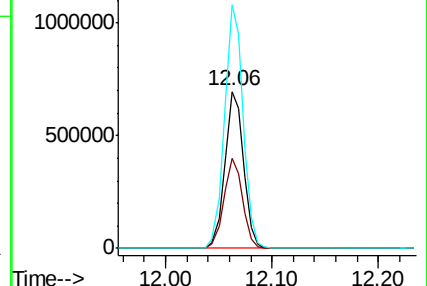
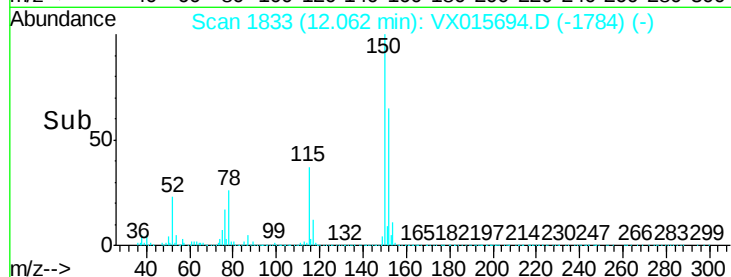
150 154.6 0.0 340.8



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: 23.131 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015694.D

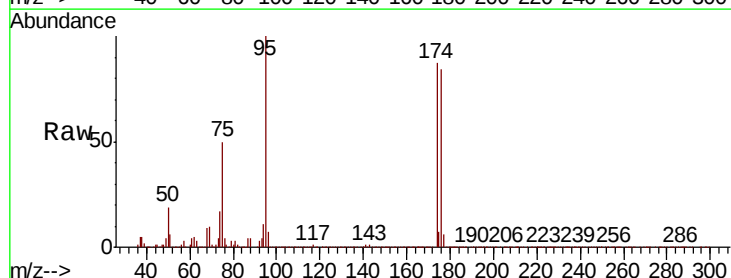
Acq: 15 Apr 2020 19:24

Tgt Ion: 75 Resp: 404796

Ion Ratio Lower Upper

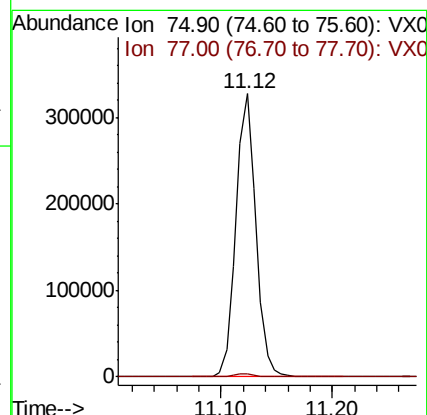
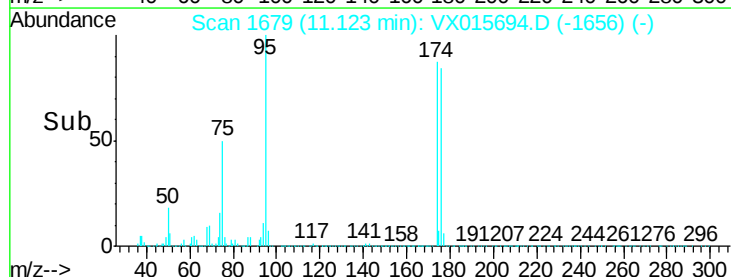
75 100

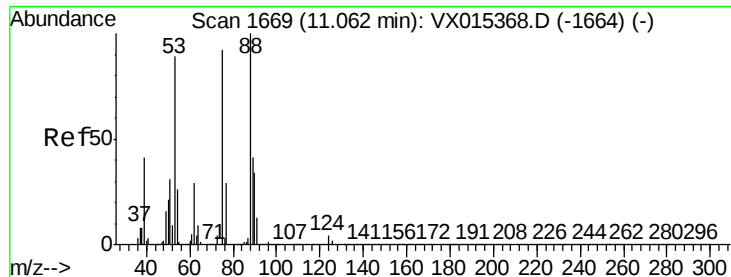
77 1.2 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.502 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015694.D

Acq: 15 Apr 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

ST008MW146-200408

Tot Ion: 75 Resp: 404796

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 36.1 54.1#

