

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062920\
 Data File : VX017029.D
 Acq On : 29 Jun 2020 23:51
 Operator : JC/SP
 Sample : L3097-04DL 400X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 24BR-20200623DL

Quant Time: Jun 30 05:34:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	238805	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	406751	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	422803	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	227156	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	154425	52.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.90%	
35) Dibromofluoromethane	5.47	113	133330	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	
50) Toluene-d8	8.70	98	503363	52.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.82%	
62) 4-Bromofluorobenzene	11.12	95	211613	56.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.80%	

Target Compounds

						Qvalue
4) Vinyl Chloride	1.39	62	8726	3.363	ug/l	93
8) Diethyl Ether	2.25	74	107	0.448	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1072	0.466	ug/l	88
11) Tert butyl alcohol	3.03	59	486	0.865	ug/l #	73
12) 1,1-Dichloroethene	2.36	96	647	0.274	ug/l #	46
13) Acrolein	2.26	56	165	0.491	ug/l #	29
16) Acetone	2.42	43	939	0.853	ug/l	94
20) Methylene Chloride	2.83	84	1107	Below Cal	#	61
27) cis-1,2-Dichloroethene	4.57	96	66683	22.446	ug/l	89
31) Cyclohexane	5.64	56	4874	1.226	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18221	4.740	ug/l #	50
38) Carbon Tetrachloride	5.64	117	23298	5.502	ug/l #	17
44) Trichloroethene	7.19	130	257070	82.679	ug/l	99
49) 1,4-Dioxane	7.56	88	48	0.688	ug/l #	24
76) 1,2,3-Trichloropropane	11.12	75	104804	23.462	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	104804	60.759	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	314	Below Cal		80
94) Hexachlorobutadiene	13.77	225	83	0.890	ug/l #	17

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017029.D

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MSVOA_X

ClientSampleId :

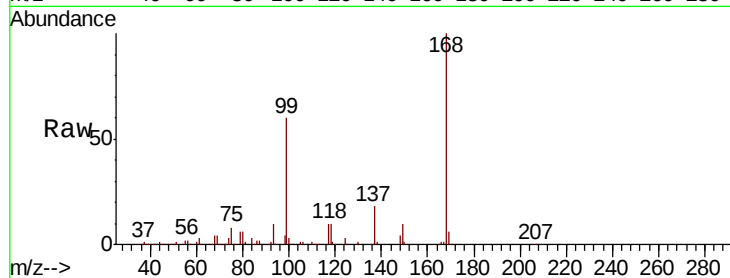
24BR-20200623DL

Tot Ion:168 Resp: 238805

Ion Ratio Lower Upper

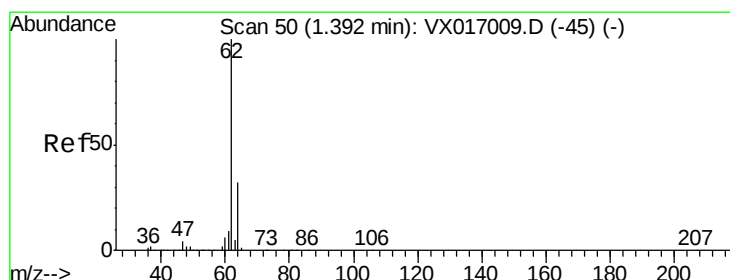
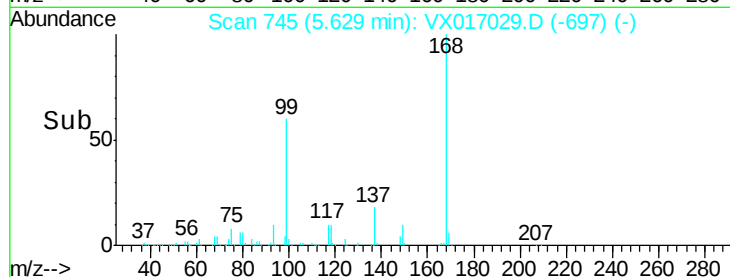
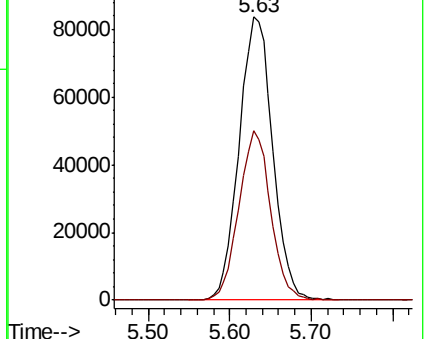
168 100

99 59.7 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 3.363 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017029.D

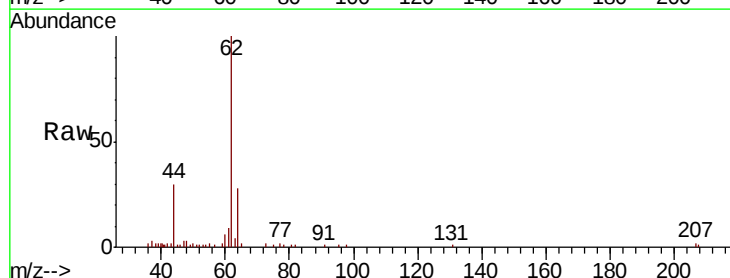
Acq: 29 Jun 2020 23:51

Tgt Ion: 62 Resp: 8726

Ion Ratio Lower Upper

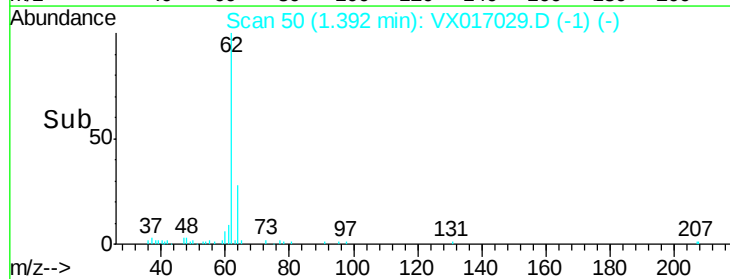
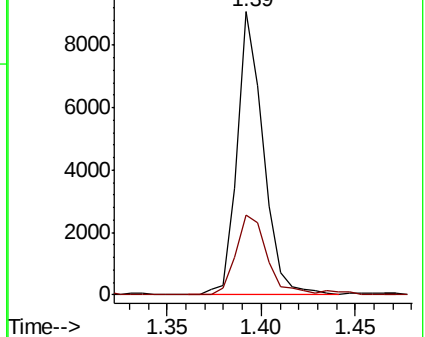
62 100

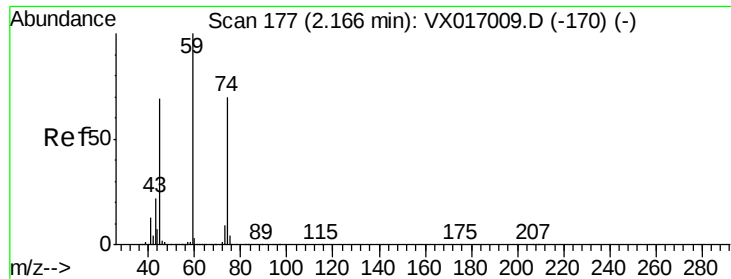
64 28.2 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#8

Diethyl Ether

Concen: 0.448 ug/l

RT: 2.25 min Scan# 190

Delta R.T. 0.08 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

Instrument :

MSVOA_X

ClientSampleId :

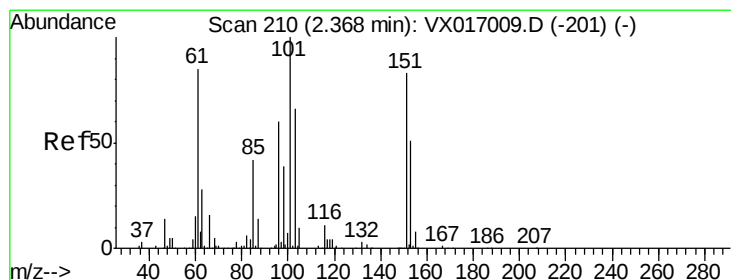
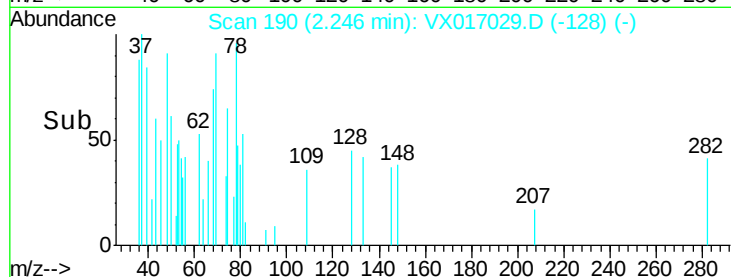
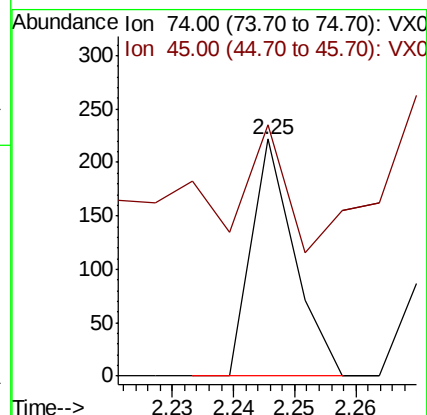
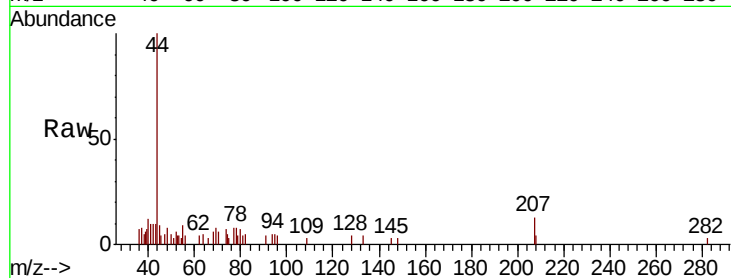
24BR-20200623DL

Tot Ion: 74 Resp: 107

Ion Ratio Lower Upper

74 100

45 115.9 49.8 149.3



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.466 ug/l

RT: 2.37 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

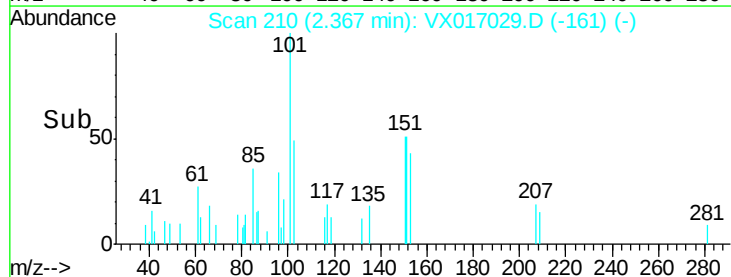
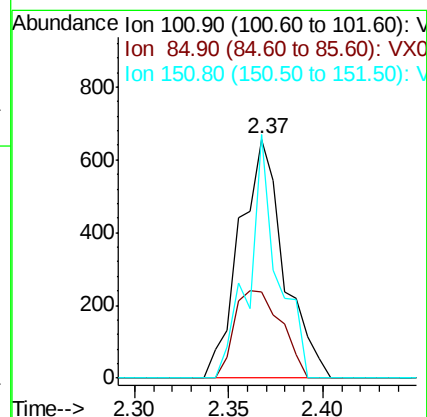
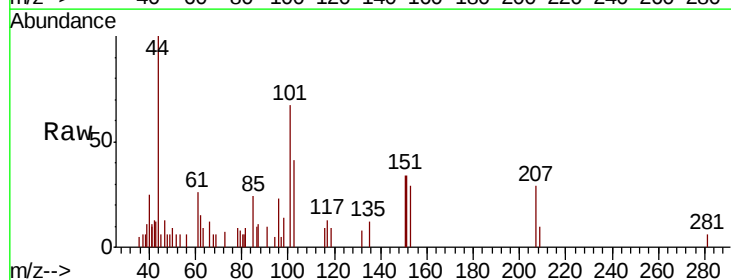
Tgt Ion: 101 Resp: 1072

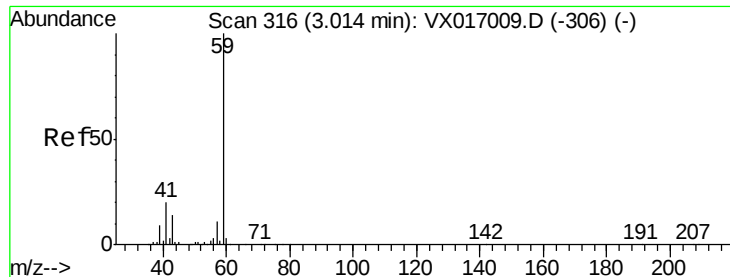
Ion Ratio Lower Upper

101 100

85 38.8 33.5 50.3

151 66.1 63.8 95.6



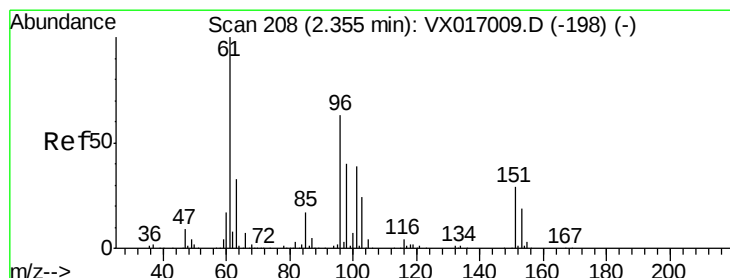
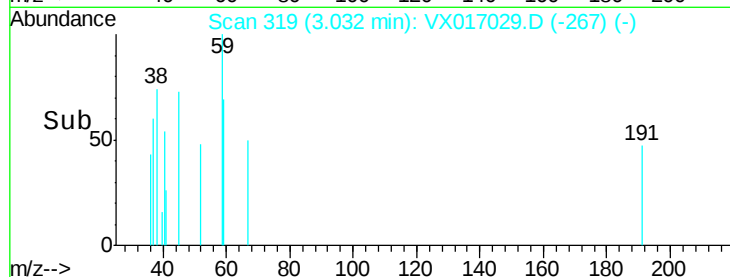
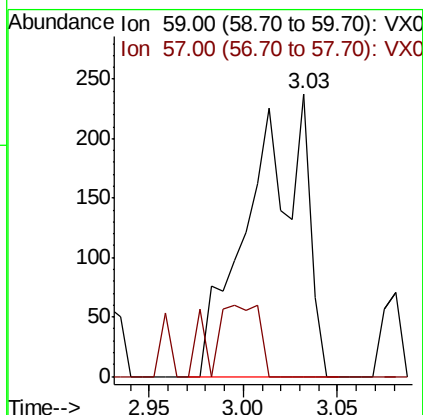
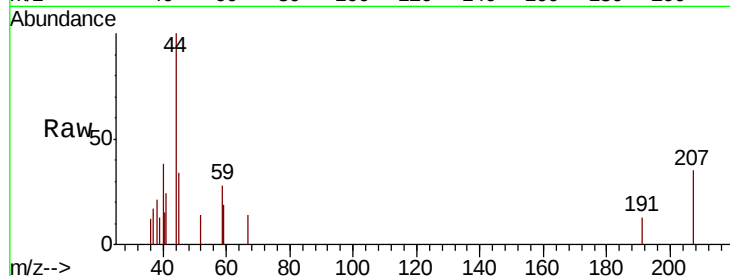


#11

Tert butyl alcohol
Concen: 0.865 ug/l
RT: 3.03 min Scan# 319
Delta R.T. 0.02 min
Lab File: VX017029.D
Acq: 29 Jun 2020 23:51

Instrument :
MSVOA_X
ClientSampleId :
24BR-20200623DL

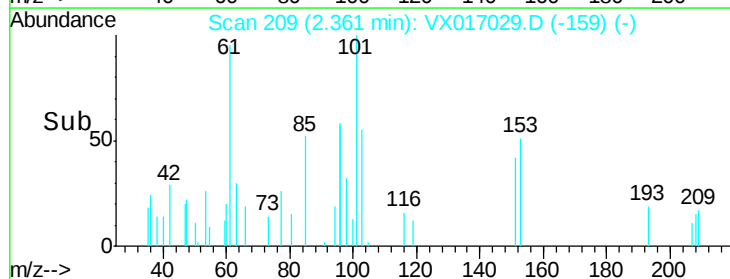
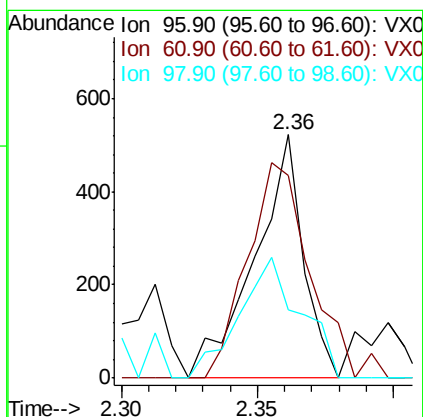
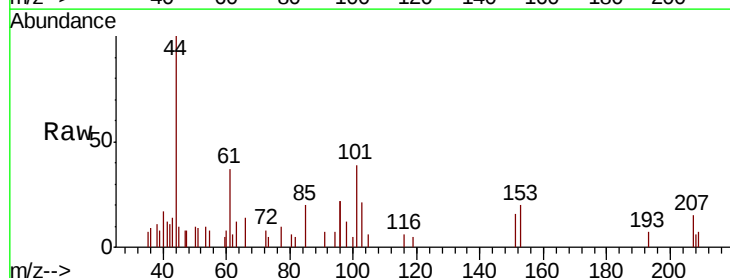
Tot Ion: 59 Resp: 486
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

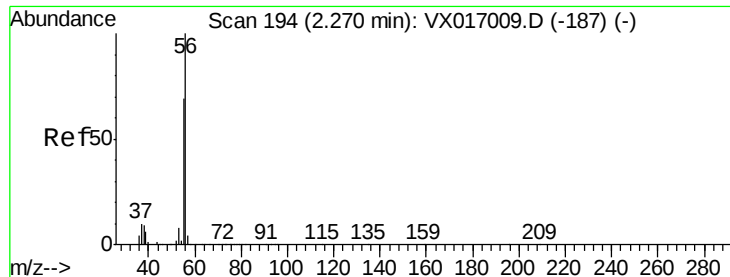


#12

1,1-Dichloroethene
Concen: 0.274 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX017029.D
Acq: 29 Jun 2020 23:51

Tgt Ion: 96 Resp: 647
Ion Ratio Lower Upper
96 100
61 83.2 126.3 189.5#
98 28.1 51.0 76.6#





#13

Acrolein

Concen: 0.491 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

Instrument :

MSVOA_X

ClientSampleId :

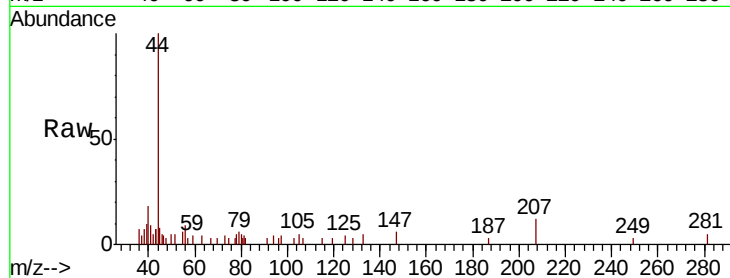
24BR-20200623DL

Tot Ion: 56 Resp: 165

Ion Ratio Lower Upper

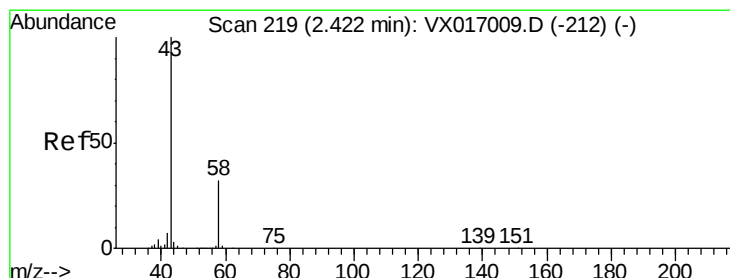
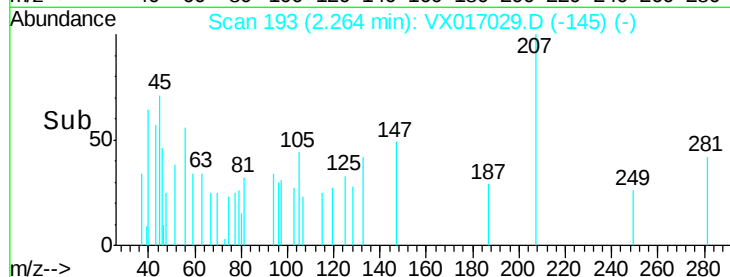
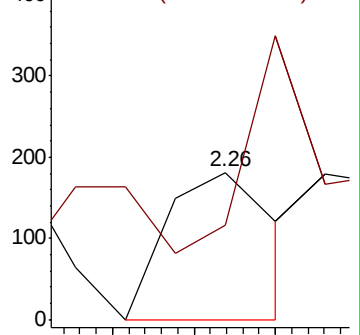
56 100

55 127.3 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.853 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017029.D

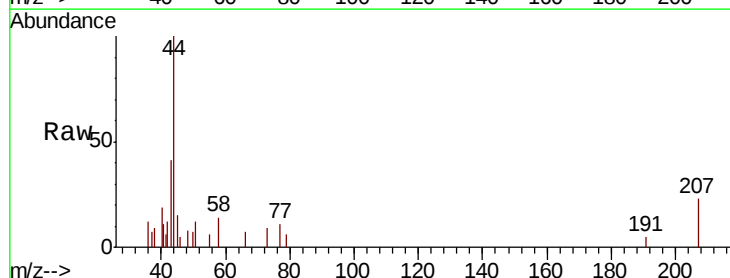
Acq: 29 Jun 2020 23:51

Tgt Ion: 43 Resp: 939

Ion Ratio Lower Upper

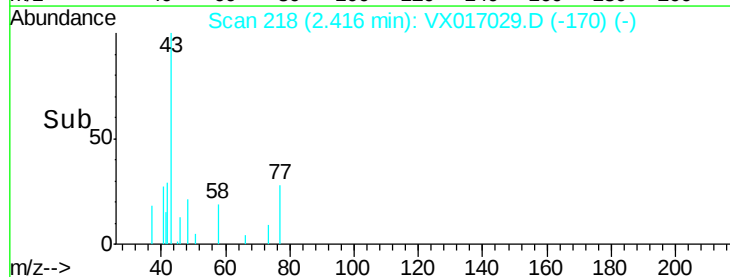
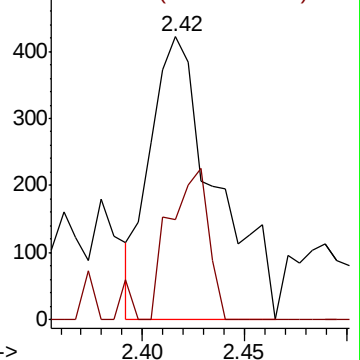
43 100

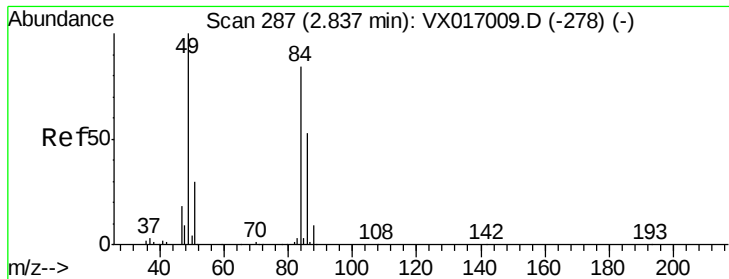
58 35.3 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

Instrument :

MSVOA_X

ClientSampleId :

24BR-20200623DL

Tot Ion: 84 Resp: 1107

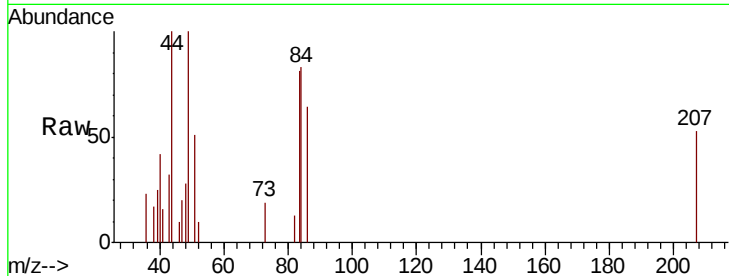
Ion Ratio Lower Upper

84 100

49 60.7 94.7 142.1#

51 30.9 28.6 42.8

86 39.0 50.5 75.7#

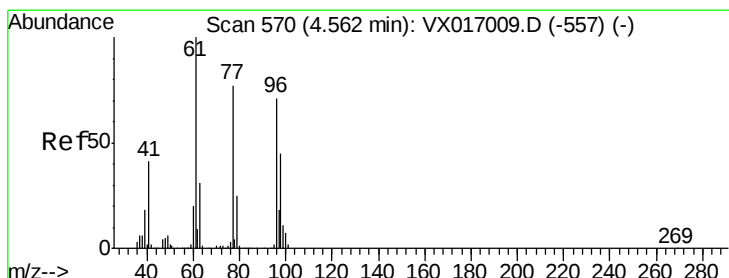
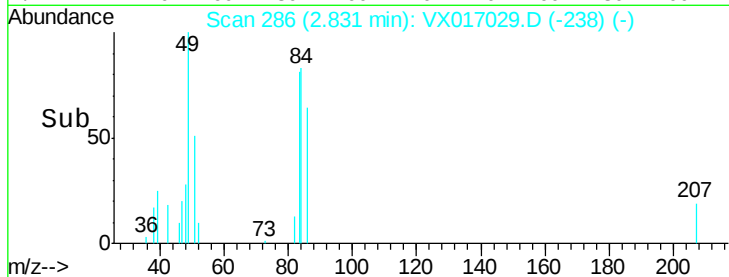
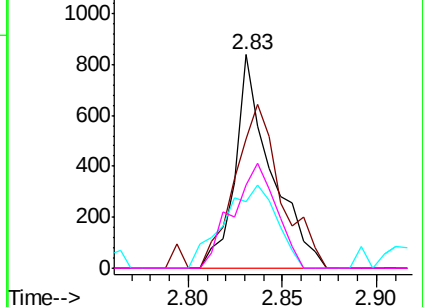


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 22.446 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

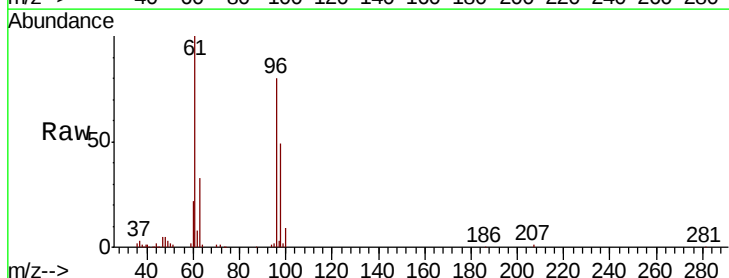
Tgt Ion: 96 Resp: 66683

Ion Ratio Lower Upper

96 100

61 122.6 0.0 282.8

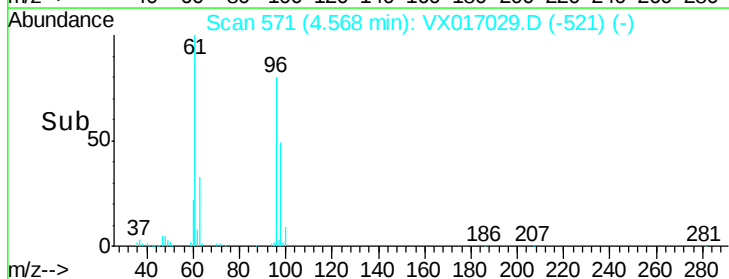
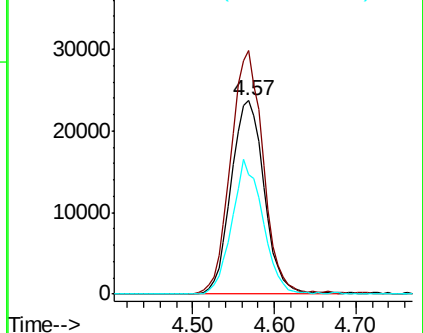
98 64.8 0.0 127.6

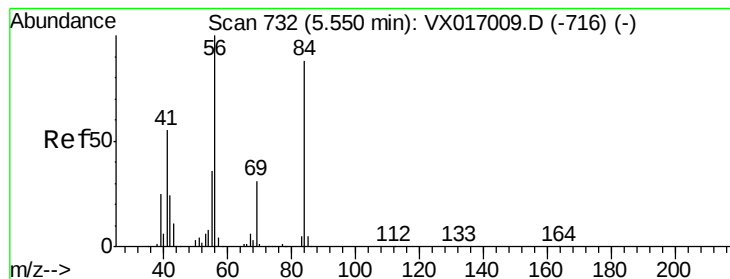


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.226 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

Instrument :

MSVOA_X

ClientSampleId :

24BR-20200623DL

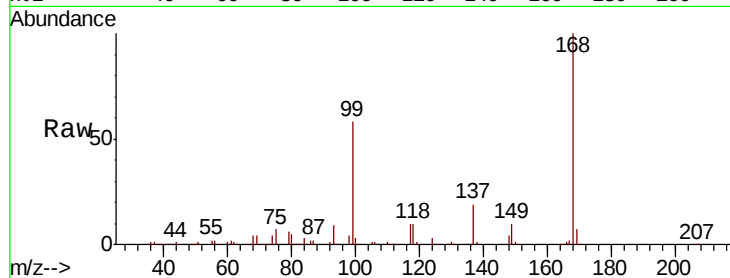
Tot Ion: 56 Resp: 4874

Ion Ratio Lower Upper

56 100

69 168.2 25.0 37.4#

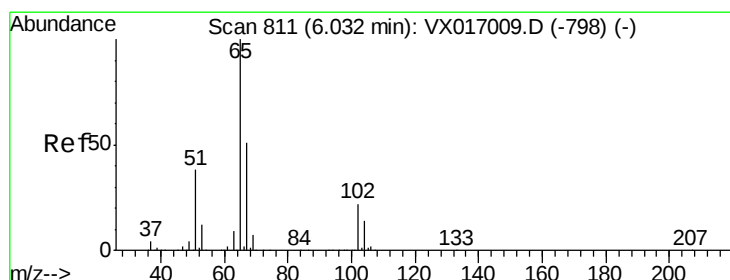
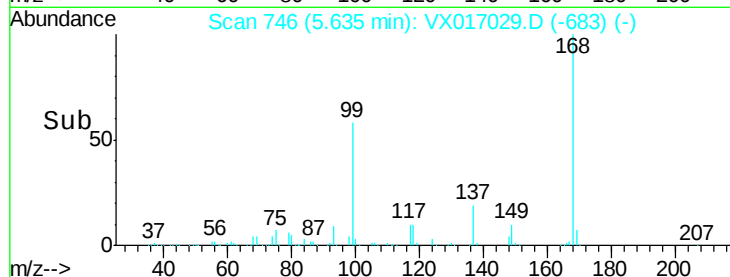
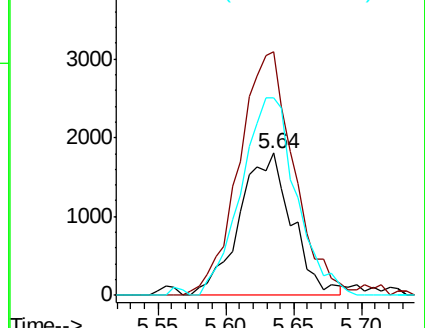
84 139.4 69.1 103.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.454 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017029.D

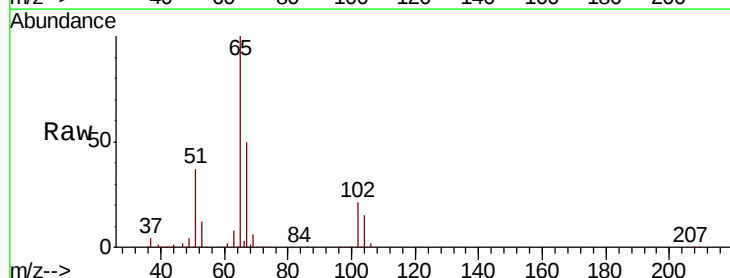
Acq: 29 Jun 2020 23:51

Tgt Ion: 65 Resp: 154425

Ion Ratio Lower Upper

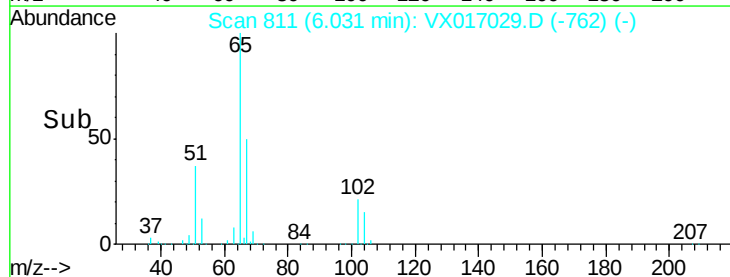
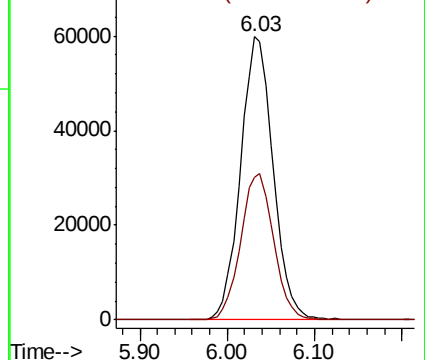
65 100

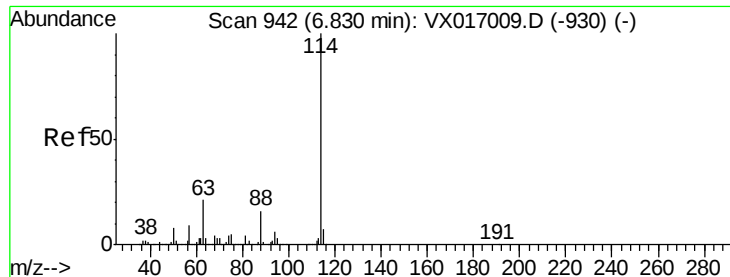
67 52.3 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

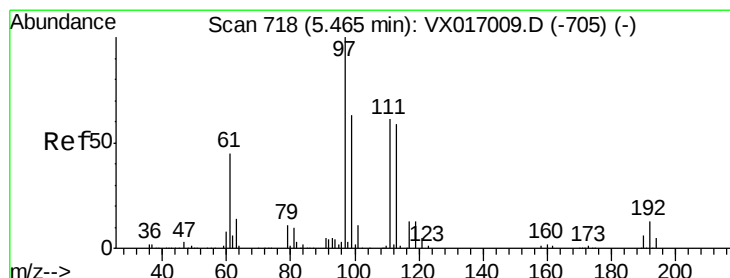
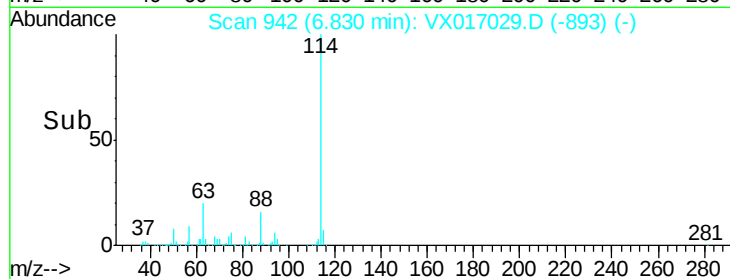
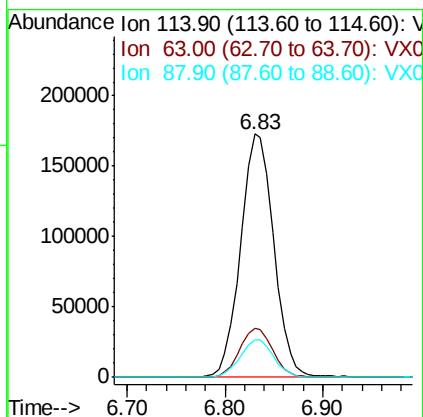
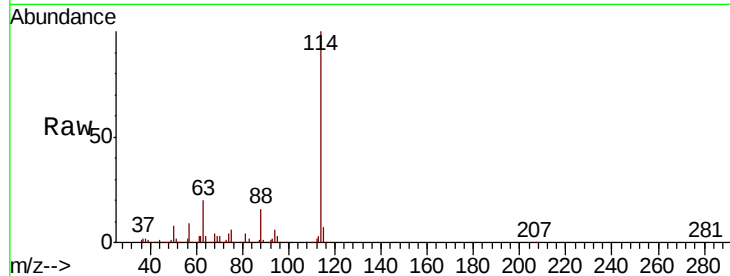




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017029.D
 Acq: 29 Jun 2020 23:51

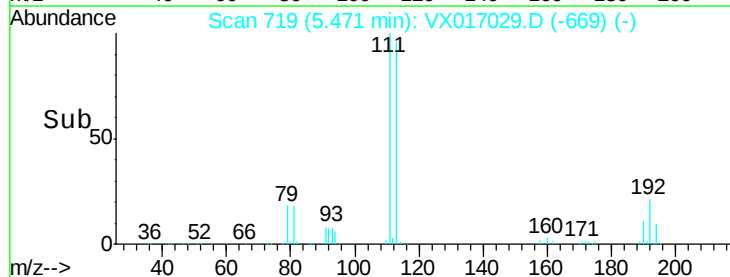
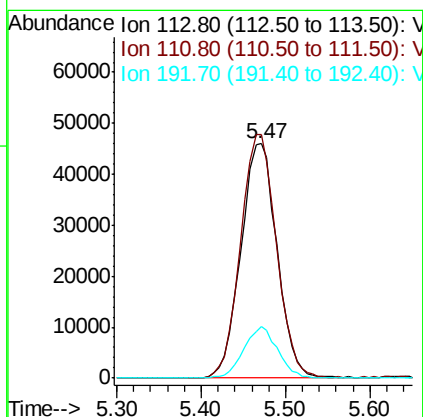
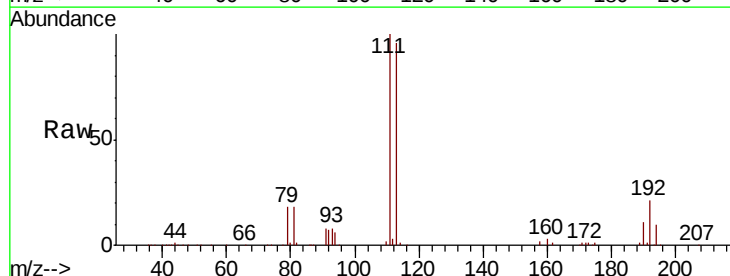
Instrument :
 MSVOA_X
 ClientSampleId :
 24BR-20200623DL

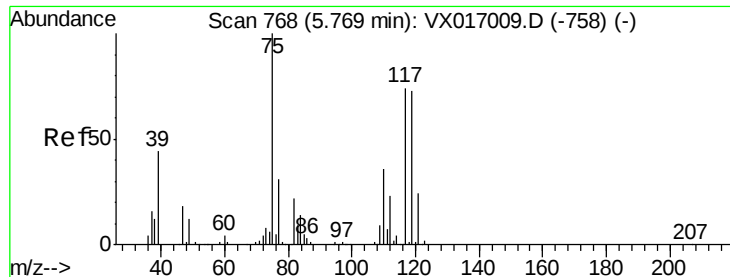
Tot Ion:114 Resp: 406751
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.4
 88 15.6 0.0 32.4



#35
 Dibromofluoromethane
 Concen: 51.819 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX017029.D
 Acq: 29 Jun 2020 23:51

Tgt Ion:113 Resp: 133330
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.9 122.9
 192 20.6 16.7 25.1





#36

1,1-Dichloropropene

Concen: 4.740 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

Instrument :

MSVOA_X

ClientSampleId :

24BR-20200623DL

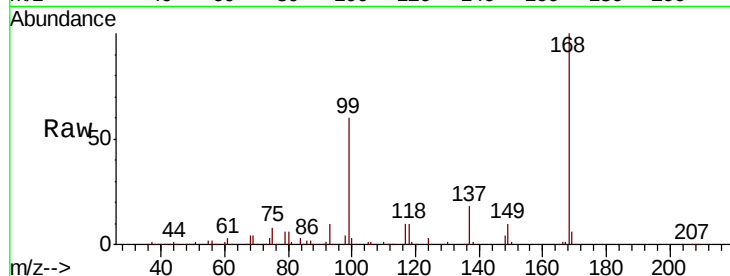
Tot Ion: 75 Resp: 18221

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.1#

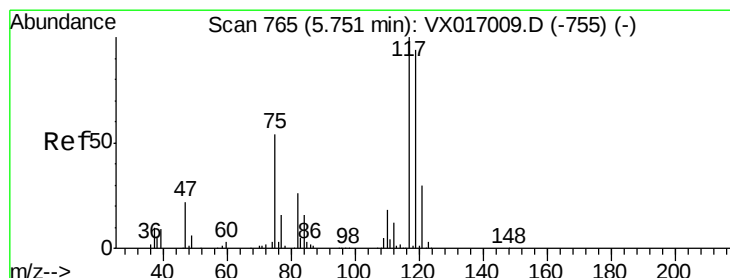
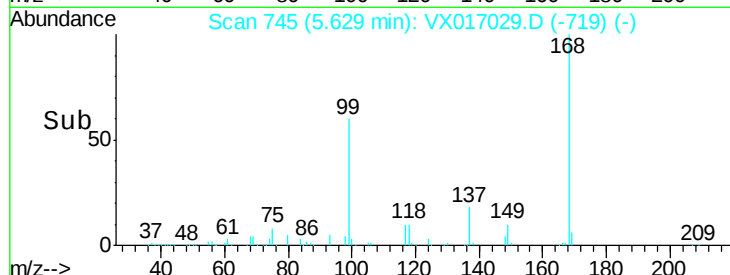
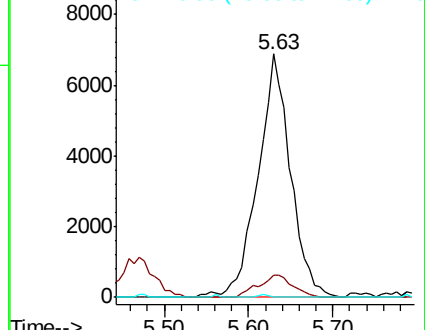
77 0.4 24.6 37.0#



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: 5.502 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

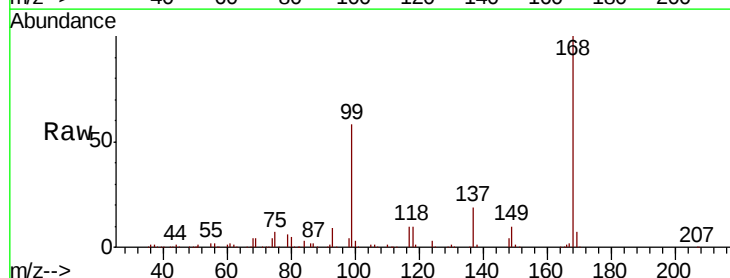
Tgt Ion: 117 Resp: 23298

Ion Ratio Lower Upper

117 100

119 5.9 75.4 113.0#

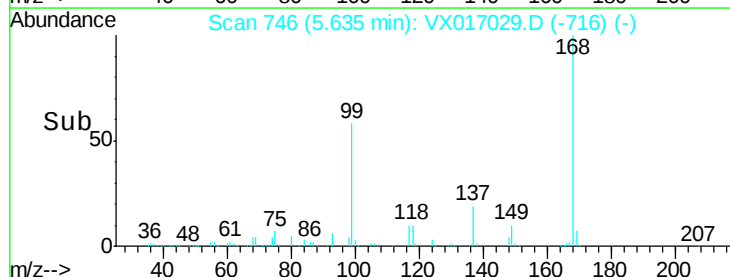
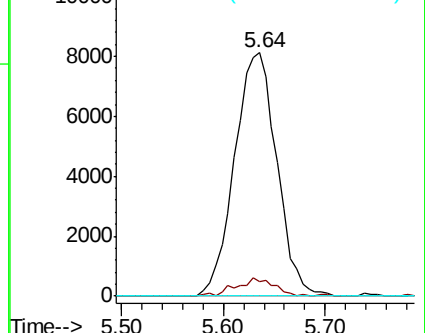
121 0.0 23.8 35.6#

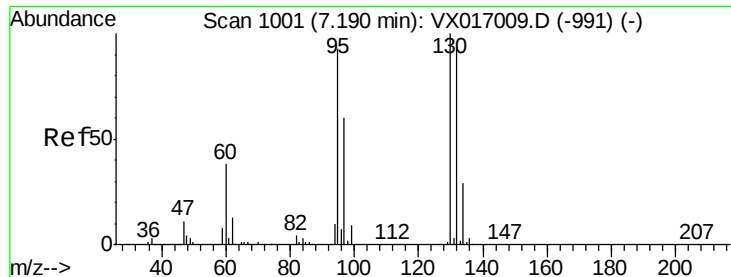


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 82.679 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

Instrument :

MSVOA_X

ClientSampleId :

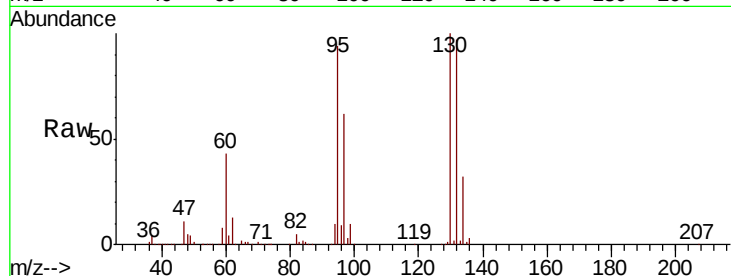
24BR-20200623DL

Tot Ion:130 Resp: 257070

Ion Ratio Lower Upper

130 100

95 93.9 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

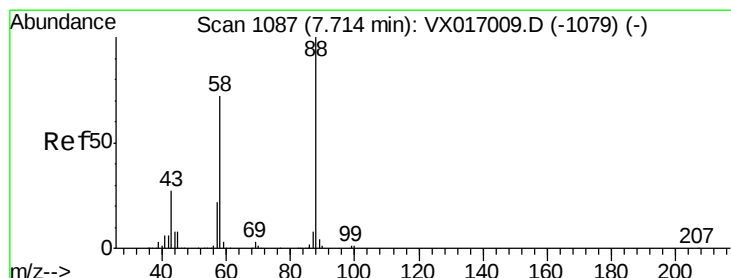
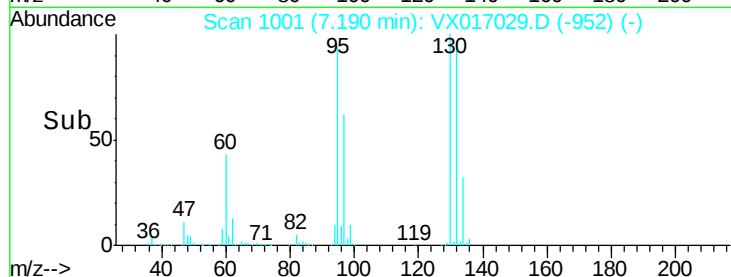
7.19

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 0.688 ug/l

RT: 7.56 min Scan# 1062

Delta R.T. -0.15 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

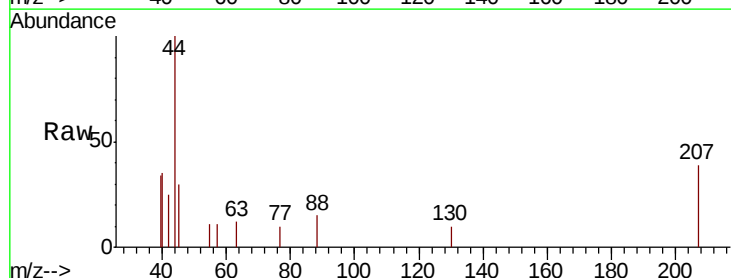
Tgt Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.8#

58 0.0 54.8 82.2#



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

250

200

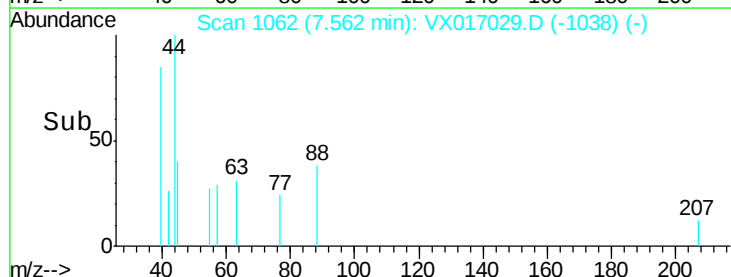
150

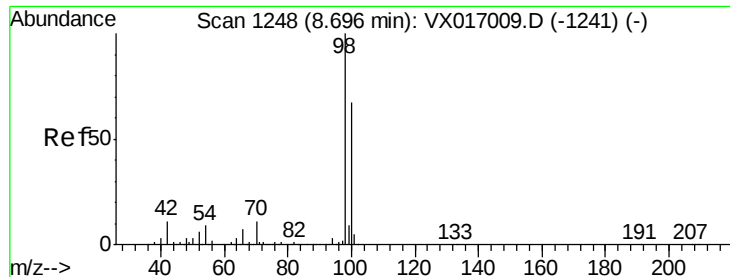
100

50

0

Time-->





#50

Toluene-d8

Concen: 52.906 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

Instrument :

MSVOA_X

ClientSampleId :

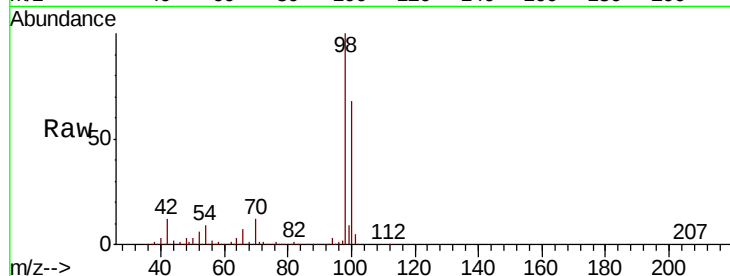
24BR-20200623DL

Tot Ion: 98 Resp: 503363

Ion Ratio Lower Upper

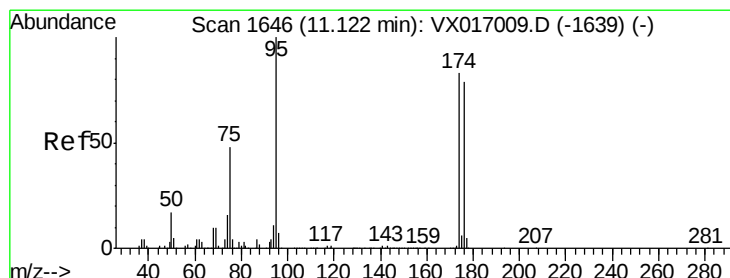
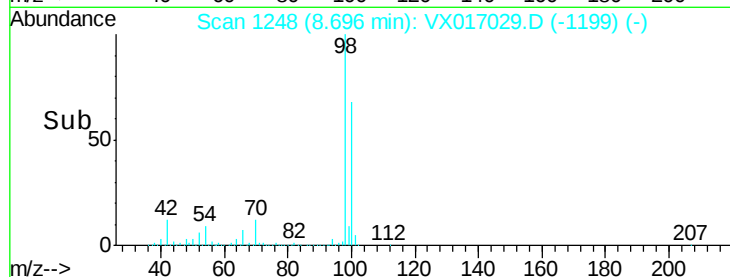
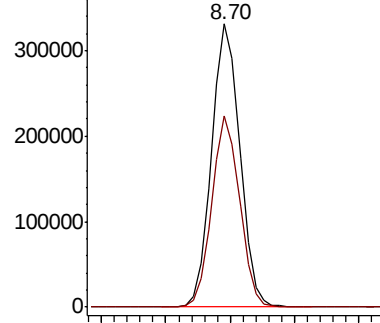
98 100

100 66.5 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 56.896 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

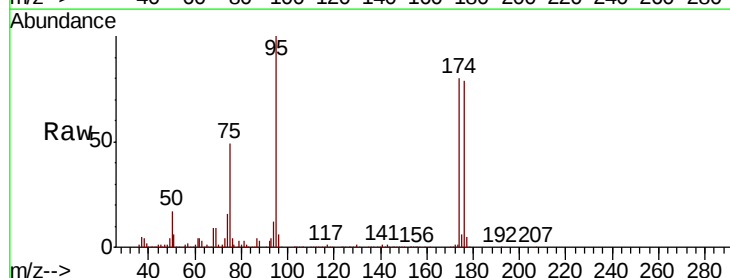
Tgt Ion: 95 Resp: 211613

Ion Ratio Lower Upper

95 100

174 80.8 0.0 164.0

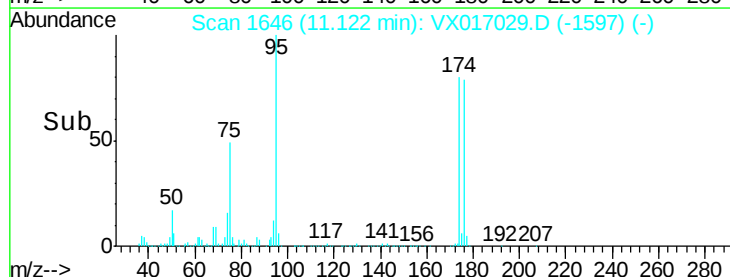
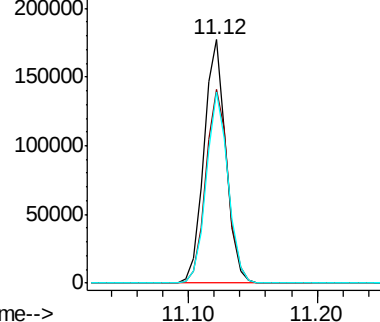
176 78.0 0.0 157.6

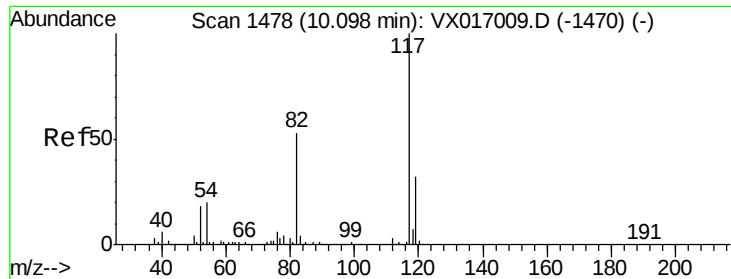


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

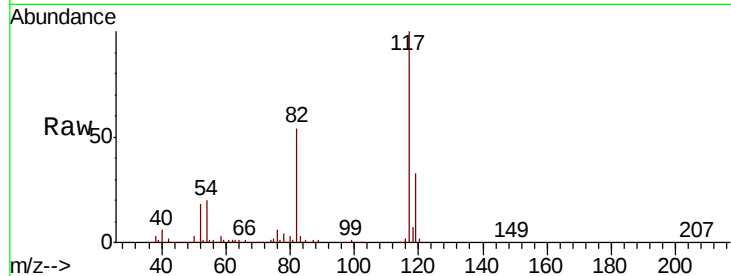




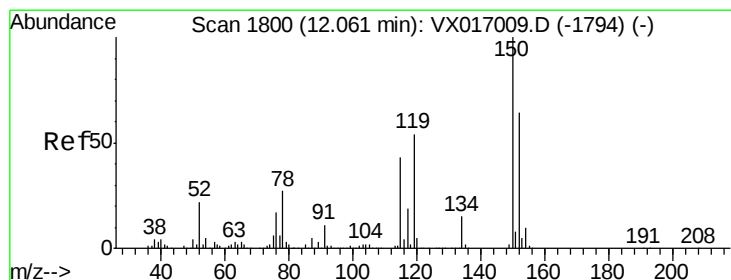
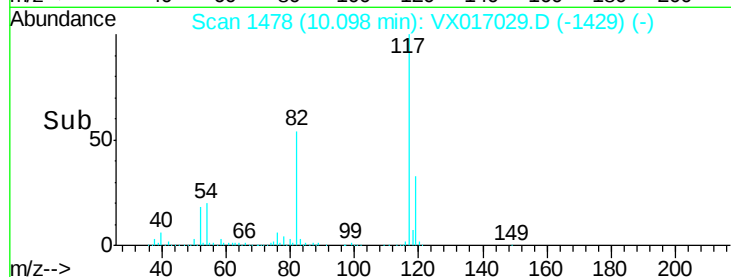
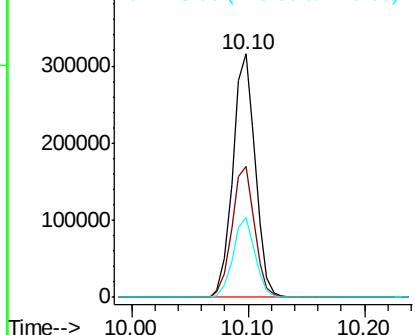
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017029.D
Acq: 29 Jun 2020 23:51

Instrument :
MSVOA_X
ClientSampleId :
24BR-20200623DL

Tot Ion:117 Resp: 422803
Ion Ratio Lower Upper
117 100
82 53.9 42.6 63.8
119 32.6 25.4 38.2

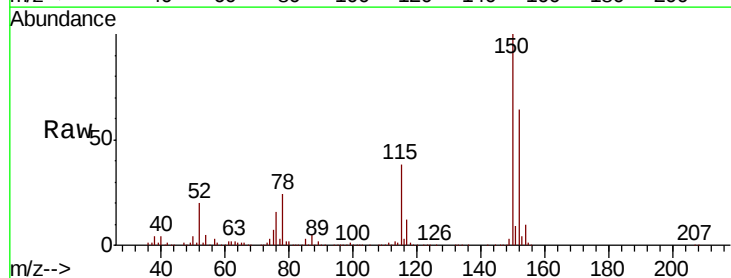


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

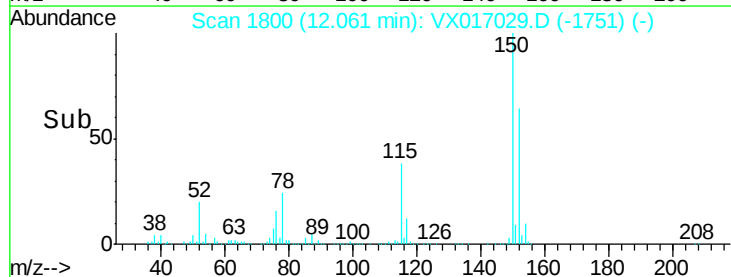
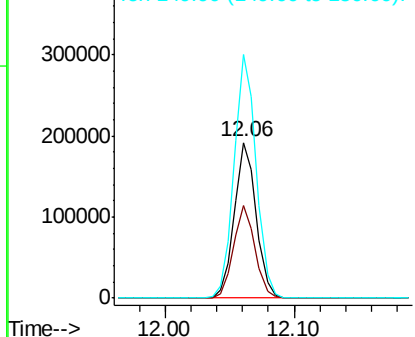


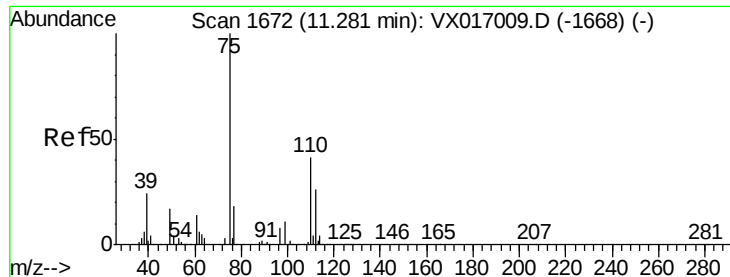
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017029.D
Acq: 29 Jun 2020 23:51

Tgt Ion:152 Resp: 227156
Ion Ratio Lower Upper
152 100
115 58.8 40.9 122.7
150 157.7 0.0 351.6



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: 23.462 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

Instrument :

MSVOA_X

ClientSampleId :

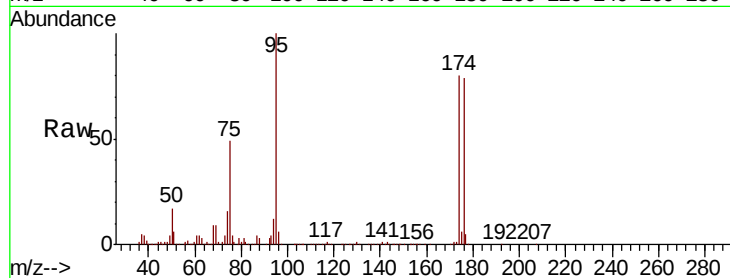
24BR-20200623DL

Tot Ion: 75 Resp: 104804

Ion Ratio Lower Upper

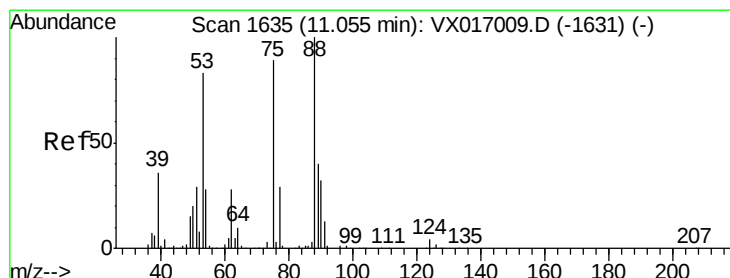
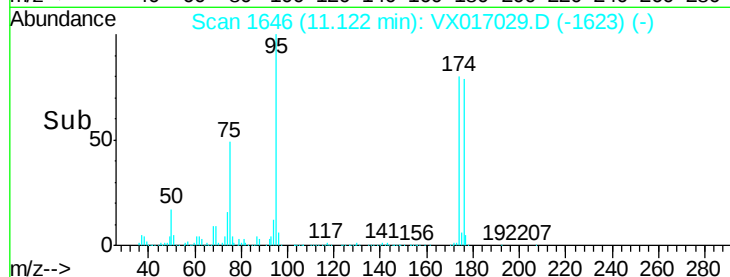
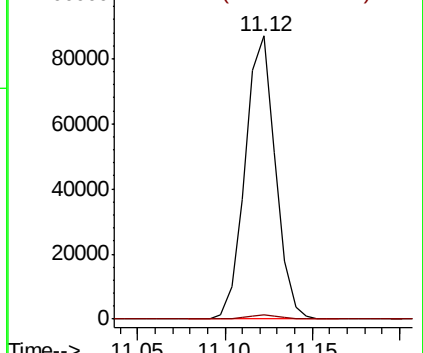
75 100

77 1.4 20.2 60.6#



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: 60.759 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

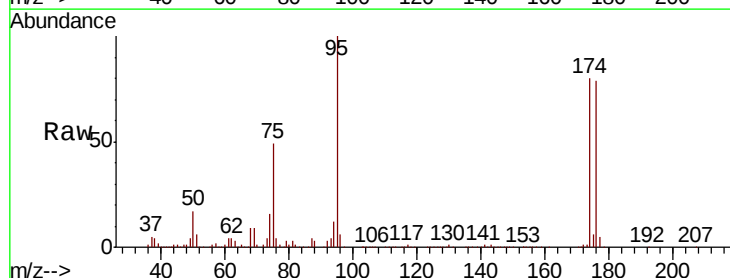
Tgt Ion: 75 Resp: 104804

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

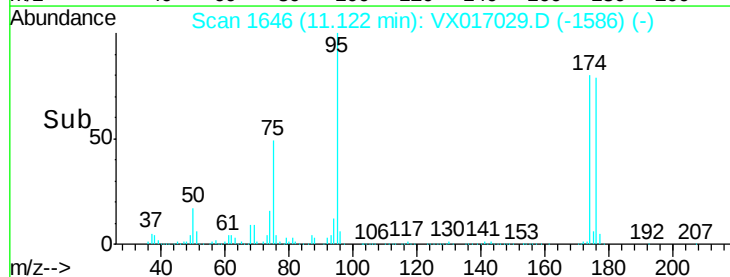
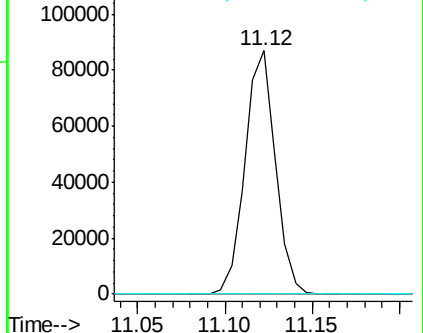
89 0.0 37.0 55.4#

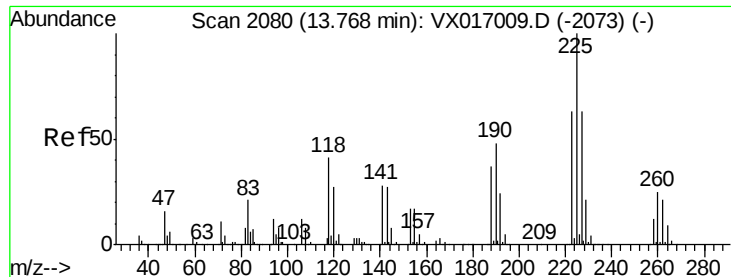


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#94

Hexachlorobutadiene

Concen: 0.890 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX017029.D

Acq: 29 Jun 2020 23:51

Instrument :

MSVOA_X

ClientSampleId :

24BR-20200623DL

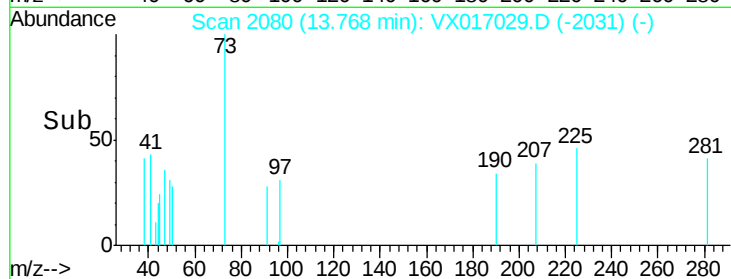
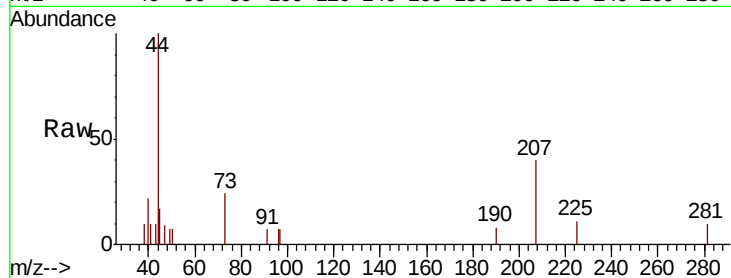
Tot Ion: 225 Resp: 83

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 0.0 33.1 99.2#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

