

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070720\
 Data File : VX017223.D
 Acq On : 07 Jul 2020 23:50
 Operator : JC/SP
 Sample : L3195-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-01-20200630

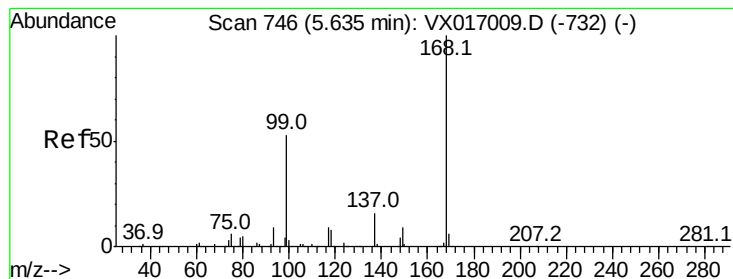
Quant Time: Jul 08 01:57:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	252821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	412254	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	422408	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	224621	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	162759	52.22	ug/l	0.00
Spiked Amount			Recovery	=	104.44%	
35) Dibromofluoromethane	5.47	113	139250	53.40	ug/l	0.00
Spiked Amount			Recovery	=	106.80%	
50) Toluene-d8	8.70	98	507436	52.62	ug/l	0.00
Spiked Amount			Recovery	=	105.24%	
62) 4-Bromofluorobenzene	11.12	95	204247	54.18	ug/l	0.00
Spiked Amount			Recovery	=	108.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	851	0.287	ug/l	92
5) Bromomethane	1.64	94	612	0.422	ug/l #	60
8) Diethyl Ether	2.32	74	87	0.429	ug/l	93
10) Methyl Iodide	2.50	142	666	0.212	ug/l #	84
12) 1,1-Dichloroethene	2.36	96	637	0.255	ug/l #	41
13) Acrolein	2.27	56	580	1.632	ug/l	95
15) Acrylonitrile	3.12	53	561	0.392	ug/l #	77
16) Acetone	2.42	43	2888	2.477	ug/l	95
17) Carbon Disulfide	2.55	76	2691	0.408	ug/l #	88
18) Methyl Acetate	2.76	43	678	0.223	ug/l #	83
20) Methylene Chloride	2.84	84	876	Below Cal	#	75
21) trans-1,2-Dichloroethene	3.14	96	724	0.261	ug/l #	71
38) Carbon Tetrachloride	5.64	117	24806	5.780	ug/l #	19
49) 1,4-Dioxane	7.74	88	67	0.948	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	100680	22.794	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	100680	59.027	ug/l #	13
89) n-Butylbenzene	12.37	91	2378	0.203	ug/l	99
93) 1,2,4-Trichlorobenzene	13.63	180	1567	0.334	ug/l	94
94) Hexachlorobutadiene	13.76	225	902	1.343	ug/l	89
96) 1,2,3-Trichlorobenzene	14.00	180	1578	0.348	ug/l	86

(#) = 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: VX017223.D

Acq: 07 Jul 2020 23:50

Instrument :

MSVOA_X

ClientSampleId :

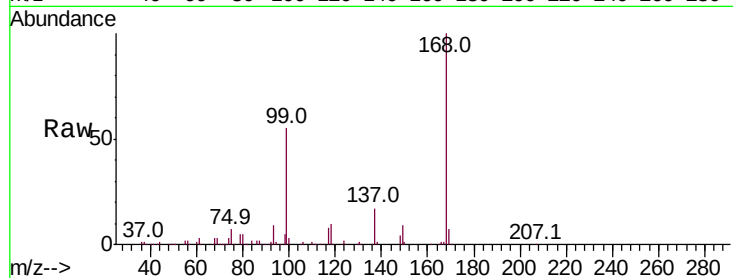
DUP-01-20200630

Tot Ion:168 Resp: 252821

Ion Ratio Lower Upper

168 100

99 54.8 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

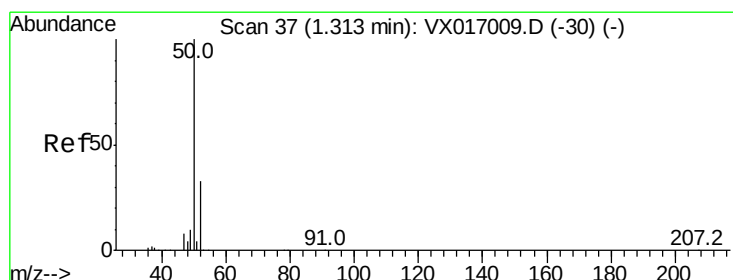
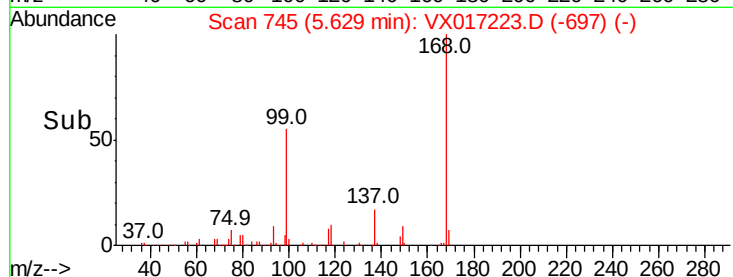
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.287 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017223.D

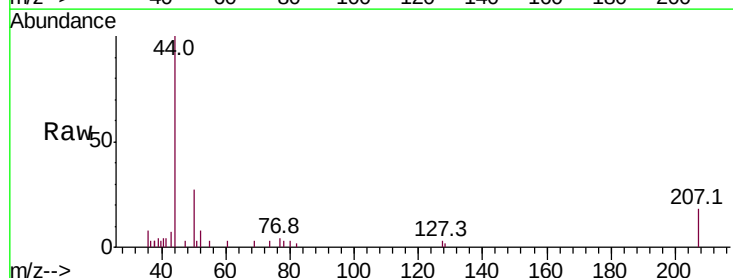
Acq: 07 Jul 2020 23:50

Tgt Ion: 50 Resp: 851

Ion Ratio Lower Upper

50 100

52 28.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

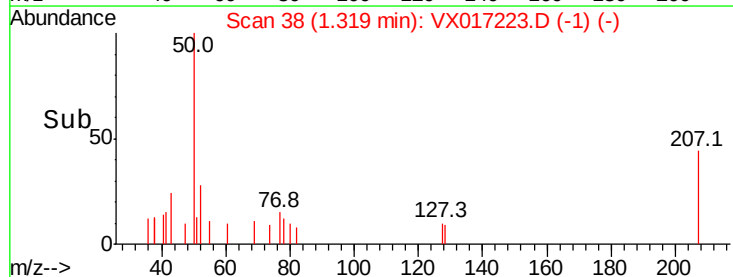
600

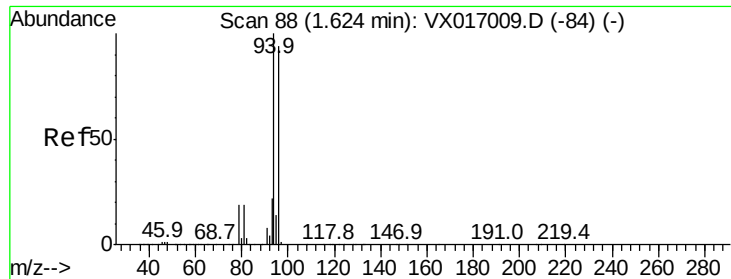
400

200

0

Time-->





#5

Bromomethane

Concen: 0.422 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

Instrument :

MSVOA_X

ClientSampleId :

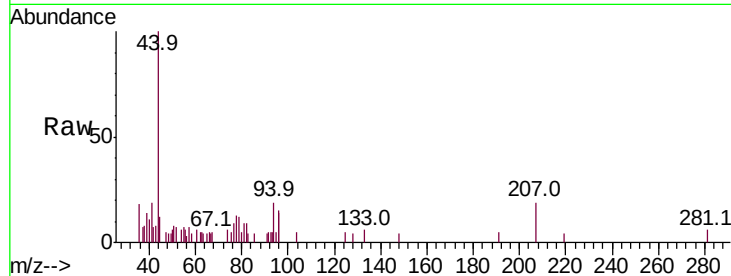
DUP-01-20200630

Tot Ion: 94 Resp: 612

Ion Ratio Lower Upper

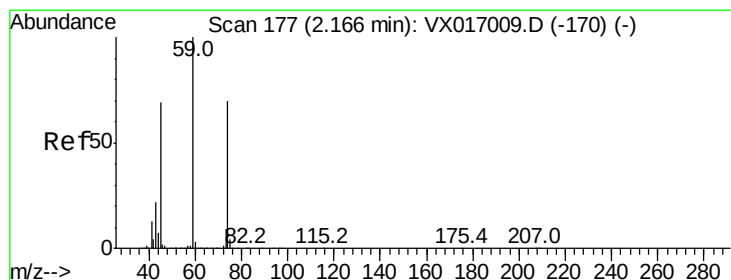
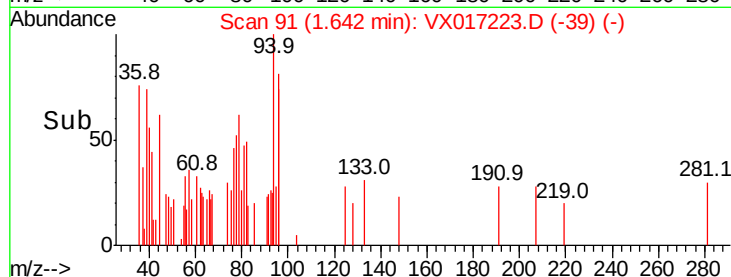
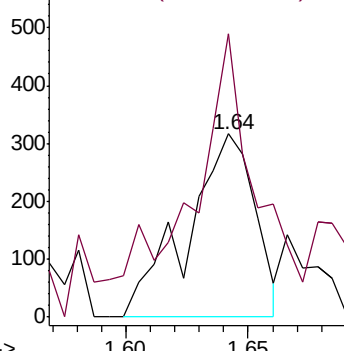
94 100

96 132.0 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 0.429 ug/l

RT: 2.32 min Scan# 203

Delta R.T. 0.16 min

Lab File: VX017223.D

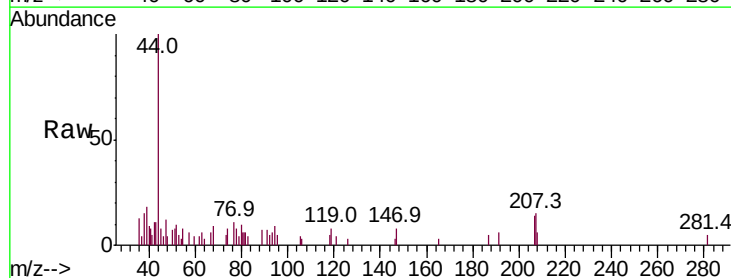
Acq: 07 Jul 2020 23:50

Tgt Ion: 74 Resp: 87

Ion Ratio Lower Upper

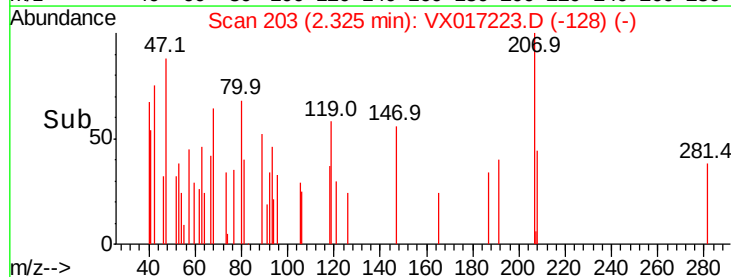
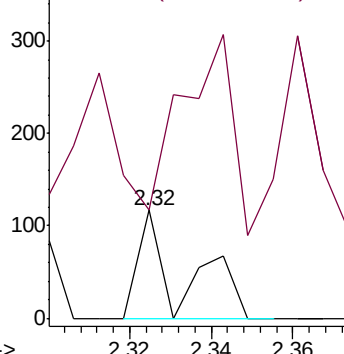
74 100

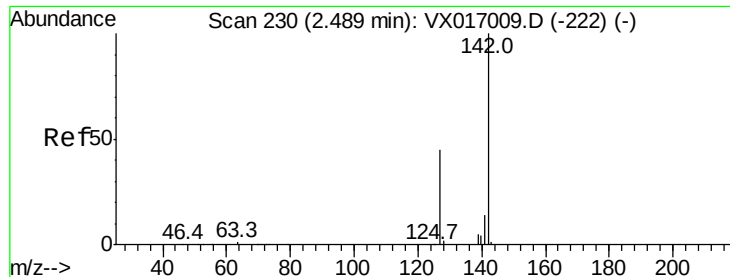
45 106.9 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

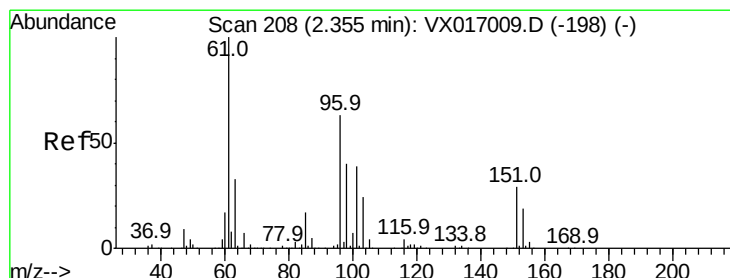
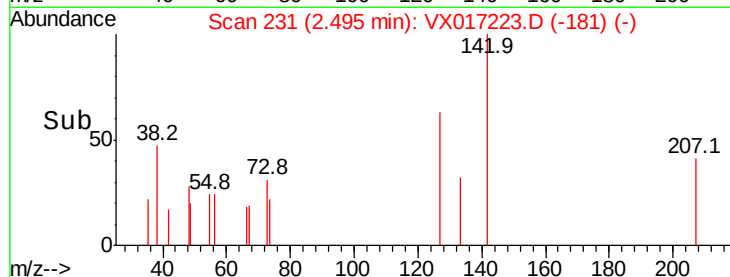
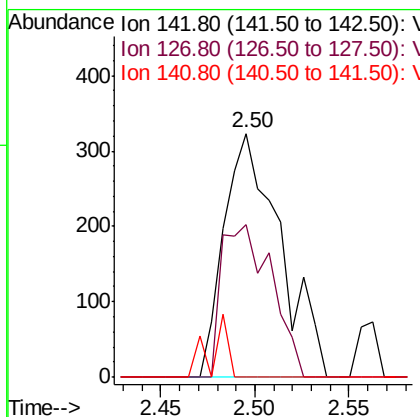
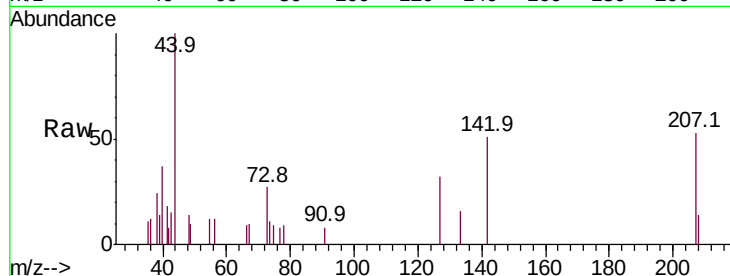




#10
Methvl Iodide
Concen: 0.212 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

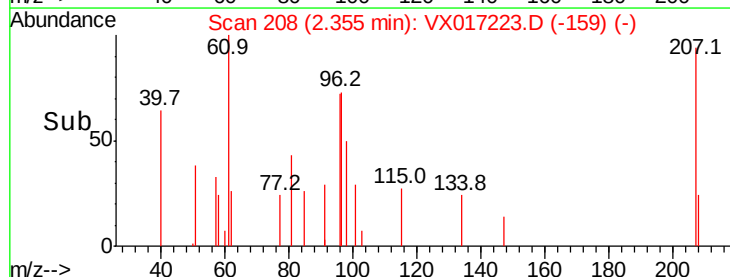
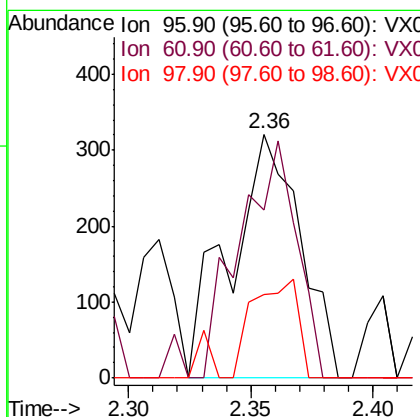
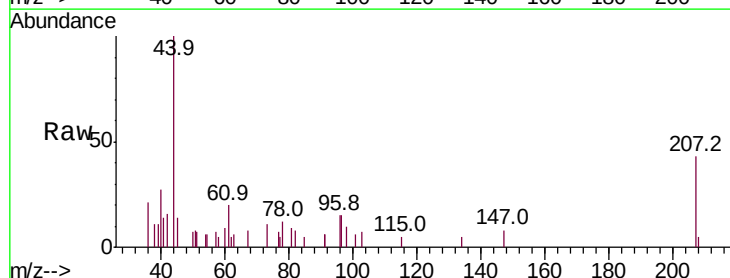
Instrument :
MSVOA_X
ClientSampleId :
DUP-01-20200630

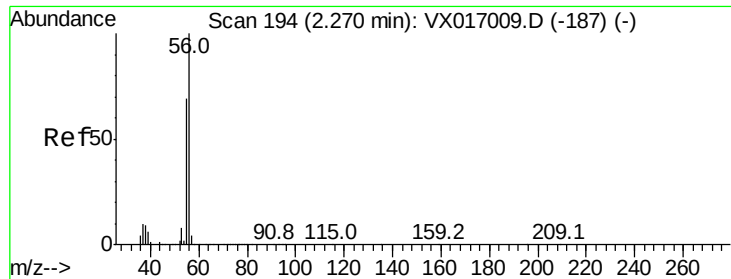
Tot Ion:142 Resp: 666
Ion Ratio Lower Upper
142 100
127 55.9 36.6 54.8#
141 7.7 11.6 17.4#



#12
1,1-Dichloroethene
Concen: 0.255 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

Tgt Ion: 96 Resp: 637
Ion Ratio Lower Upper
96 100
61 68.8 126.3 189.5#
98 34.3 51.0 76.6#





#13

Acrolein

Concen: 1.632 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

Instrument :

MSVOA_X

ClientSampleId :

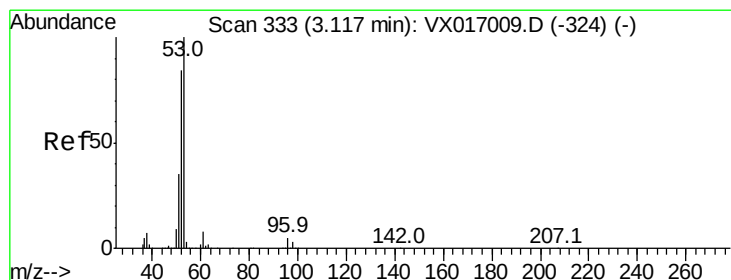
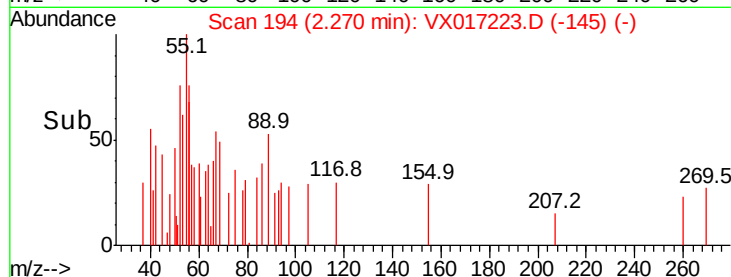
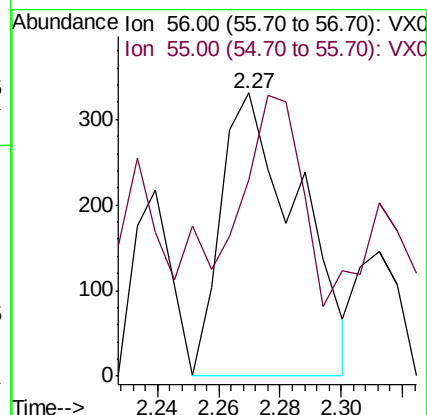
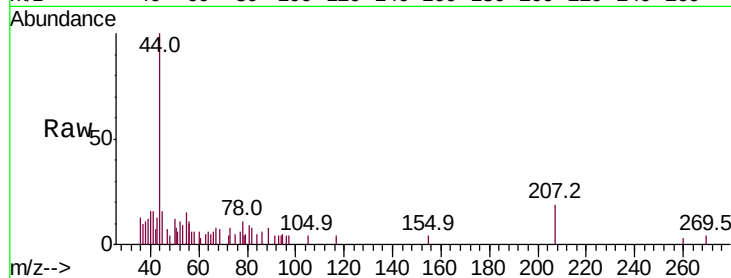
DUP-01-20200630

Tot Ion: 56 Resp: 580

Ion Ratio Lower Upper

56 100

55 73.6 55.7 83.5



#15

Acrylonitrile

Concen: 0.392 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

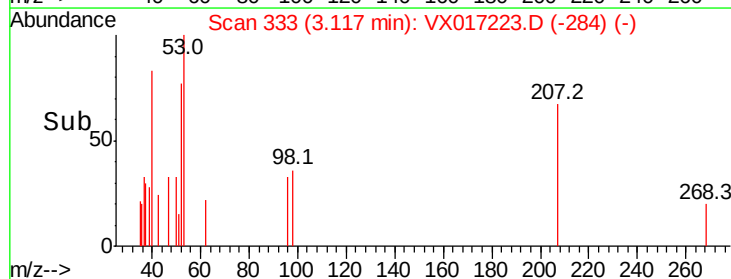
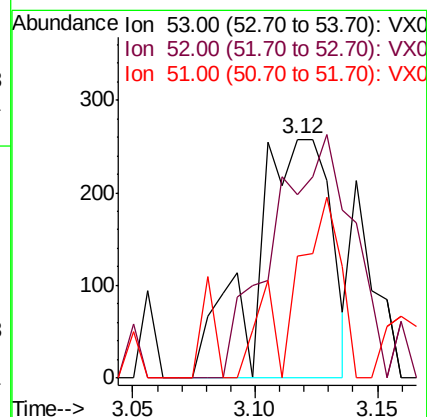
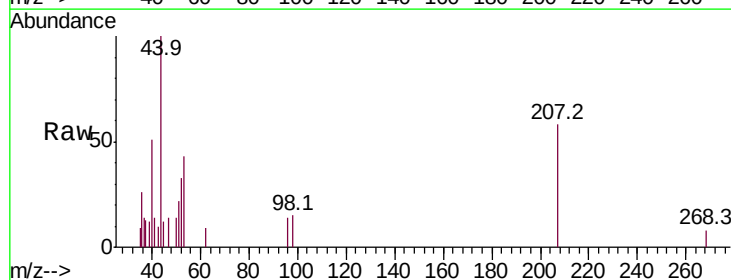
Tgt Ion: 53 Resp: 561

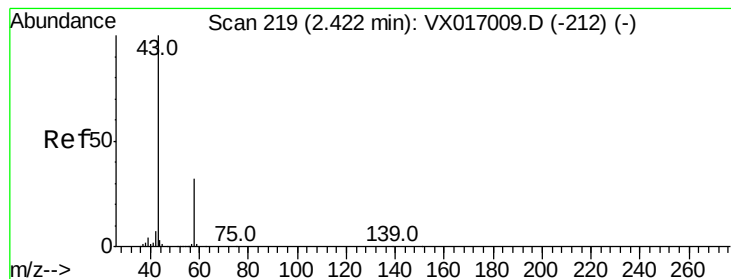
Ion Ratio Lower Upper

53 100

52 110.0 65.6 98.4#

51 37.8 28.3 42.5





#16

Acetone

Concen: 2.477 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

Instrument :

MSVOA_X

ClientSampleId :

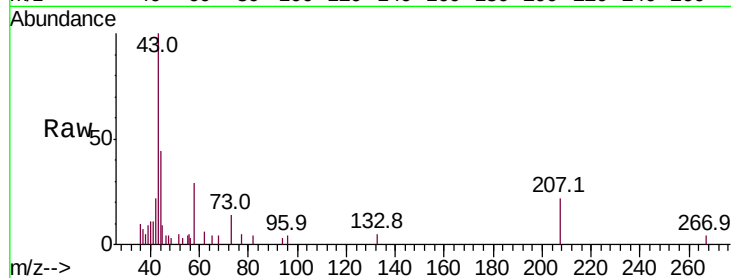
DUP-01-20200630

Tot Ion: 43 Resp: 2888

Ion Ratio Lower Upper

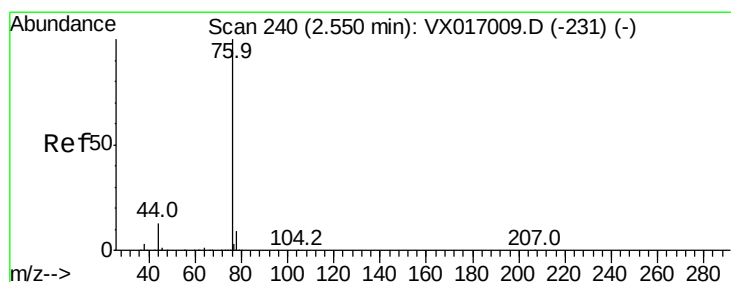
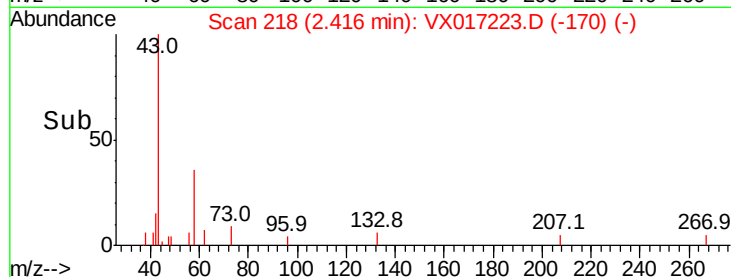
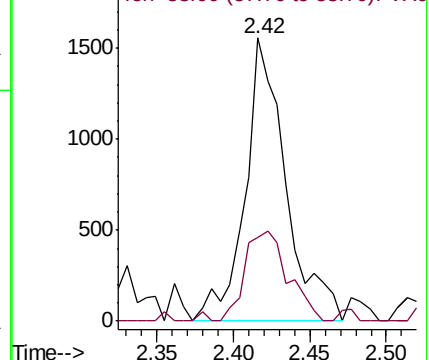
43 100

58 29.5 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.408 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017223.D

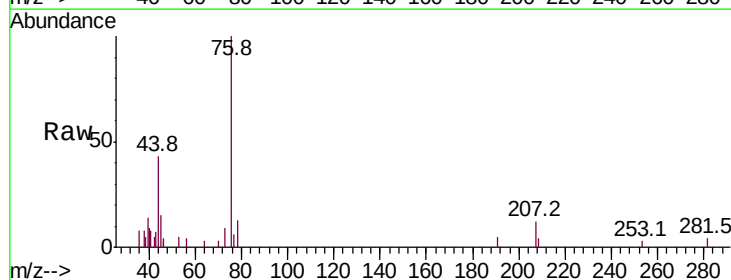
Acq: 07 Jul 2020 23:50

Tgt Ion: 76 Resp: 2691

Ion Ratio Lower Upper

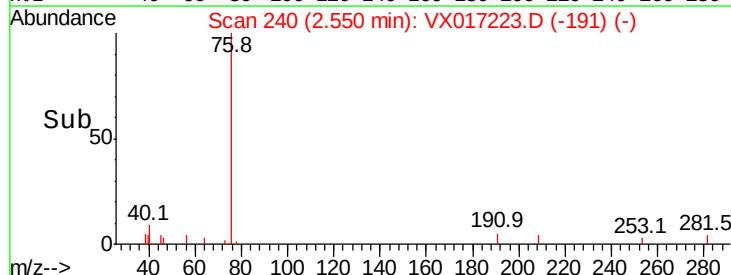
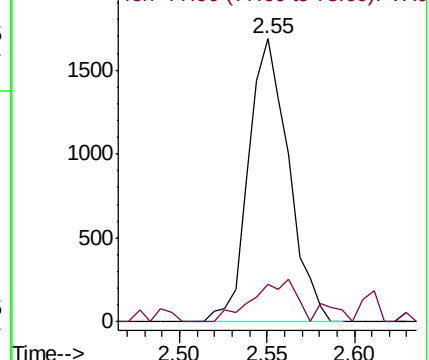
76 100

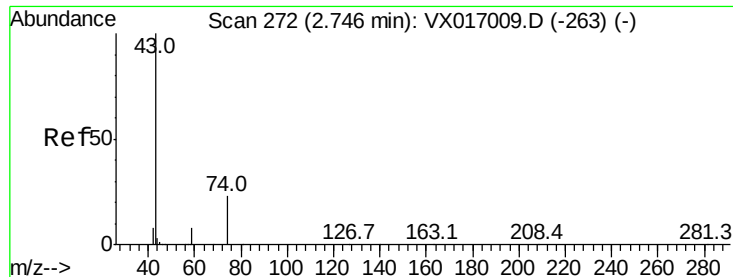
78 13.4 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

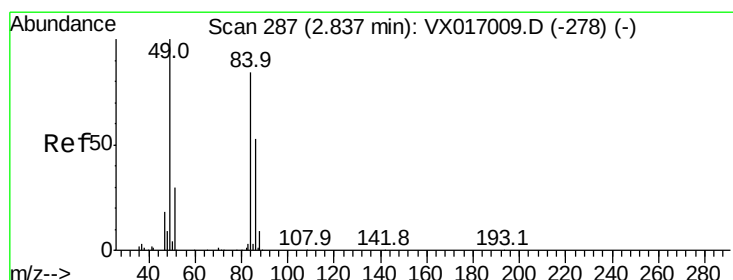
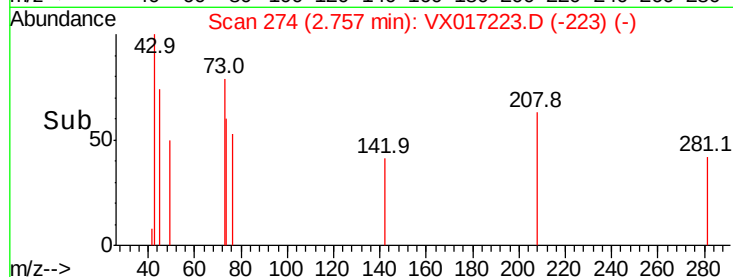
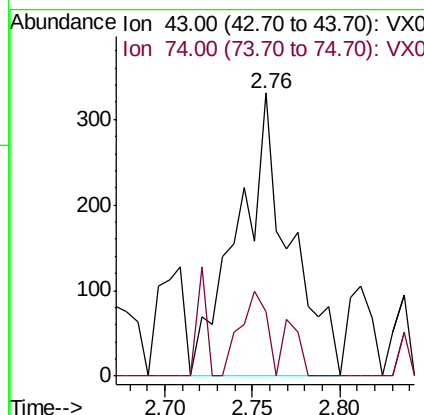
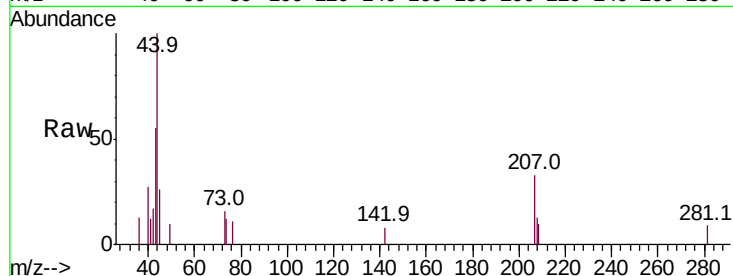




#18
Methyl Acetate
Concen: 0.223 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

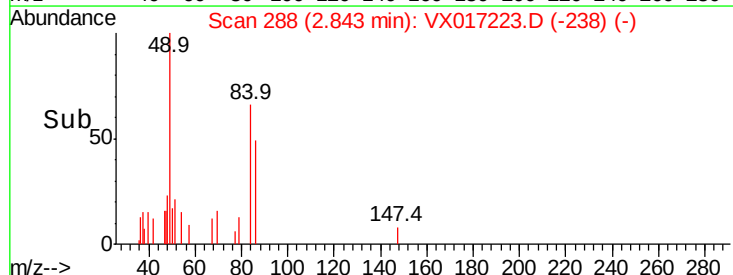
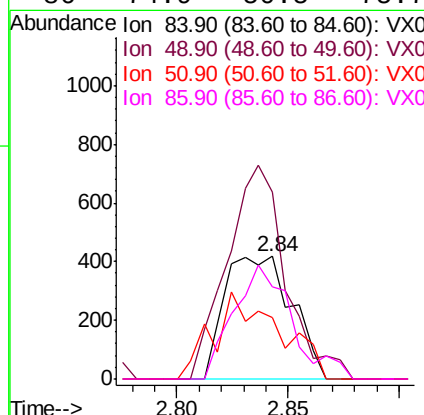
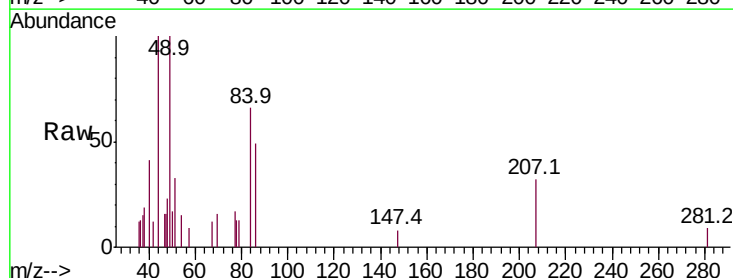
Instrument :
MSVOA_X
ClientSampleId :
DUP-01-20200630

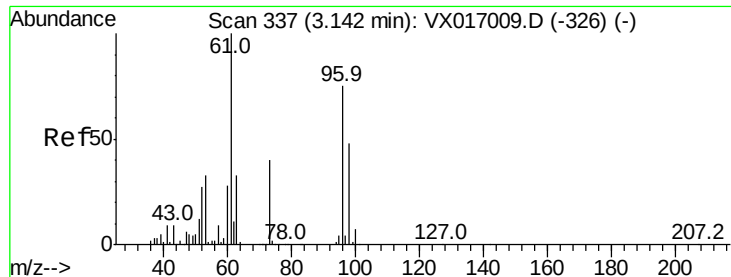
Tot Ion: 43 Resp: 678
Ion Ratio Lower Upper
43 100
74 15.5 19.3 28.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

Tgt Ion: 84 Resp: 876
Ion Ratio Lower Upper
84 100
49 151.9 94.7 142.1#
51 50.2 28.6 42.8#
86 74.9 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 0.261 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

Instrument :

MSVOA_X

ClientSampleId :

DUP-01-20200630

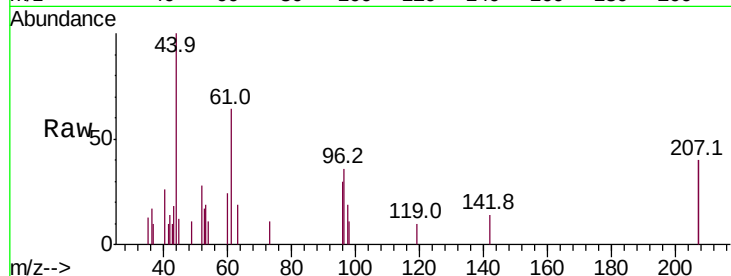
Tot Ion: 96 Resp: 724

Ion Ratio Lower Upper

96 100

61 96.2 107.0 160.6#

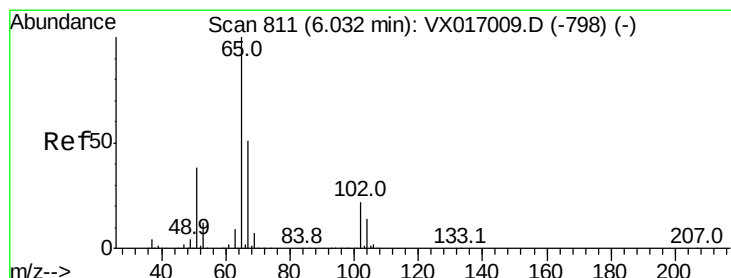
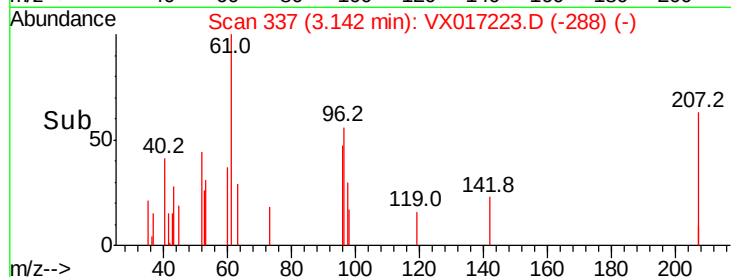
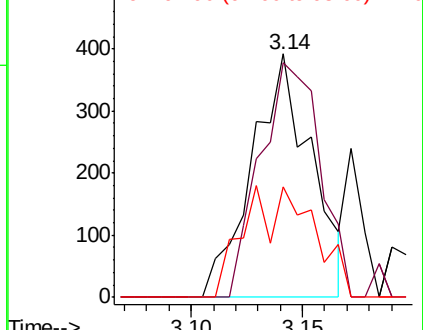
98 45.4 51.6 77.4#



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: 52.220 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017223.D

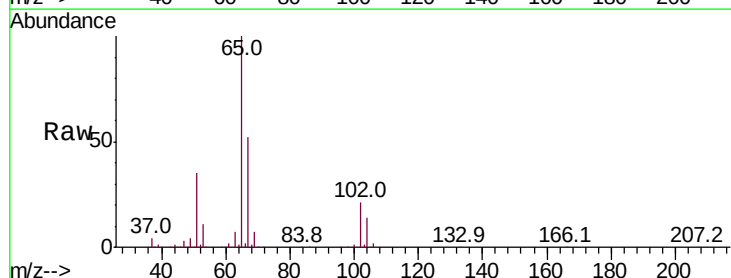
Acq: 07 Jul 2020 23:50

Tgt Ion: 65 Resp: 162759

Ion Ratio Lower Upper

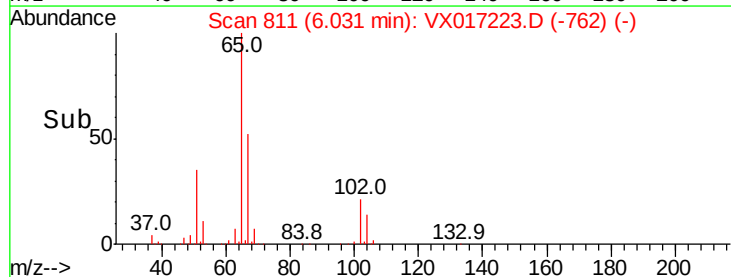
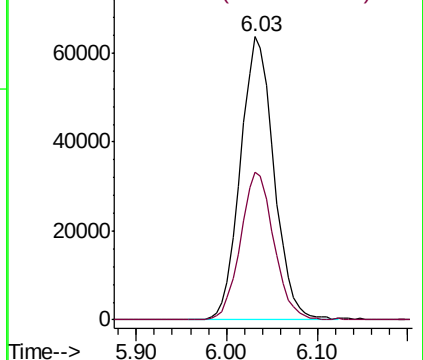
65 100

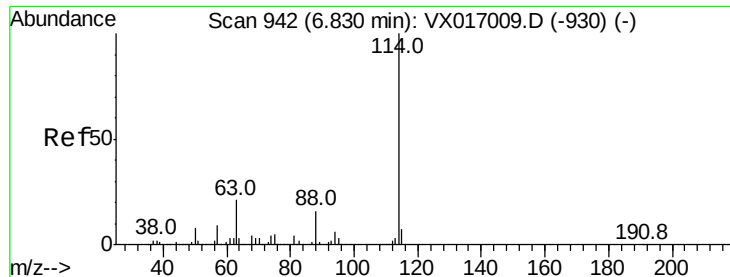
67 51.9 0.0 103.8



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: VX017223.D

Acq: 07 Jul 2020 23:50

Instrument :

MSVOA_X

ClientSampleId :

DUP-01-20200630

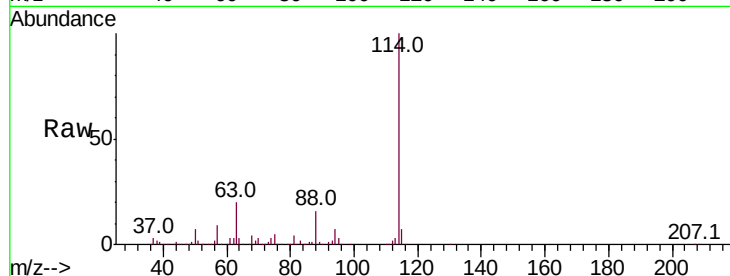
Tot Ion:114 Resp: 412254

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

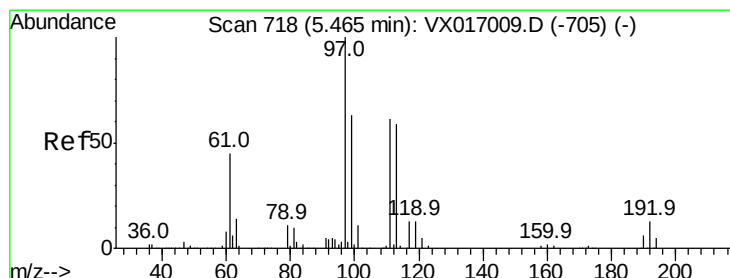
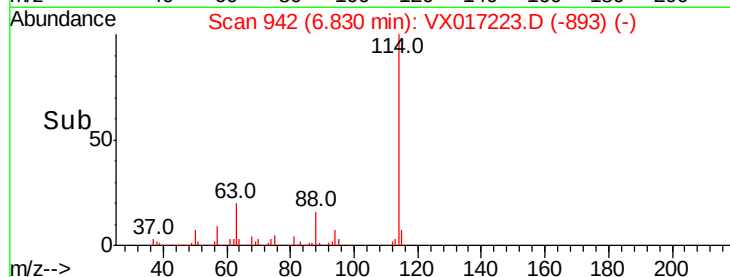
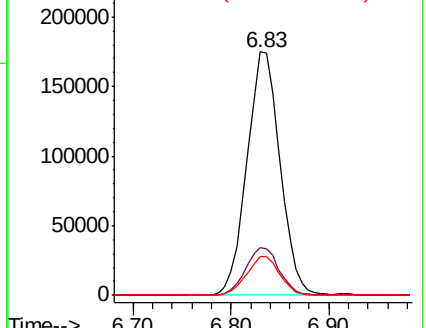
88 16.2 0.0 32.4



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: 53.398 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

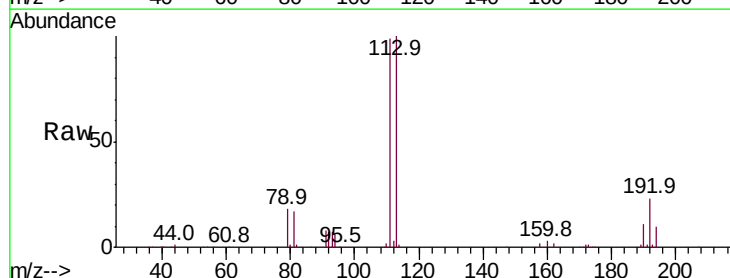
Tgt Ion:113 Resp: 139250

Ion Ratio Lower Upper

113 100

111 103.3 81.9 122.9

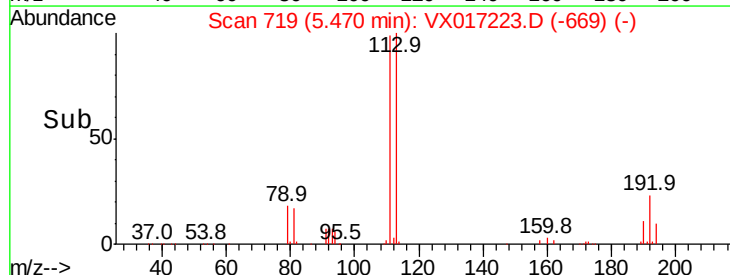
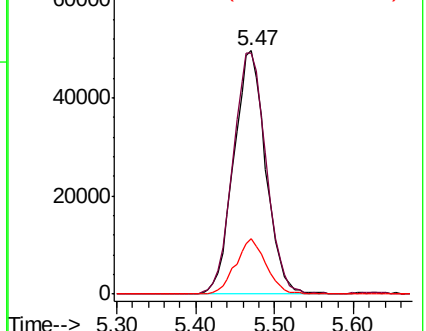
192 21.8 16.7 25.1

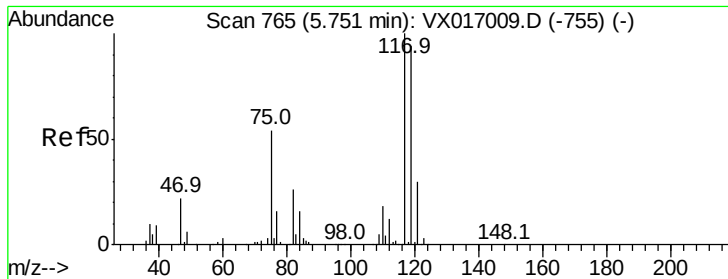


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.780 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

Instrument :

MSVOA_X

ClientSampleId :

DUP-01-20200630

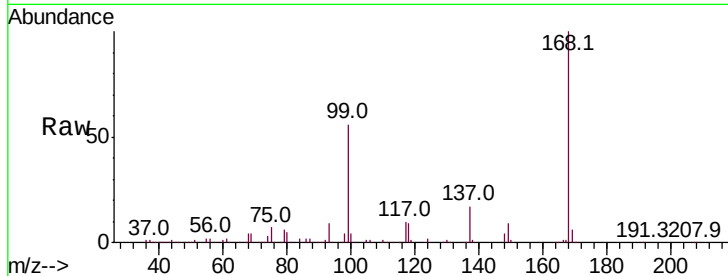
Tot Ion:117 Resp: 24806

Ion Ratio Lower Upper

117 100

119 7.7 75.4 113.0#

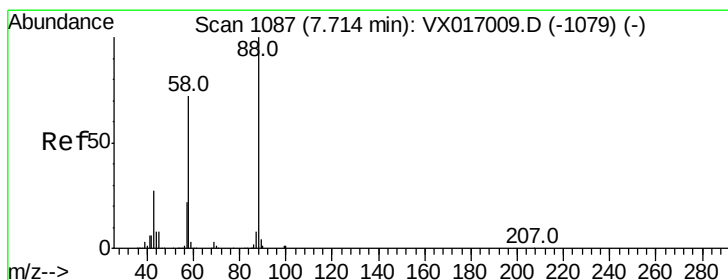
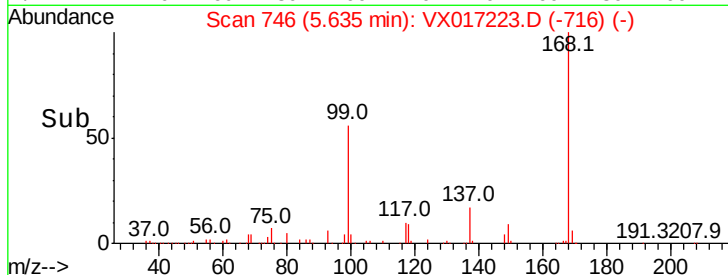
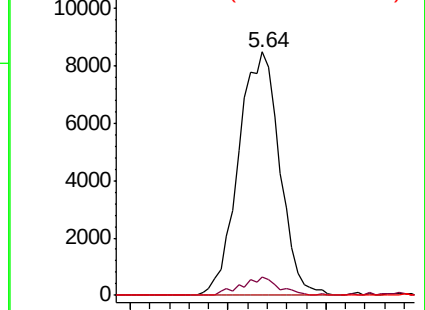
121 0.0 23.8 35.6#



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



#49

1,4-Dioxane

Concen: 0.948 ug/l

RT: 7.74 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

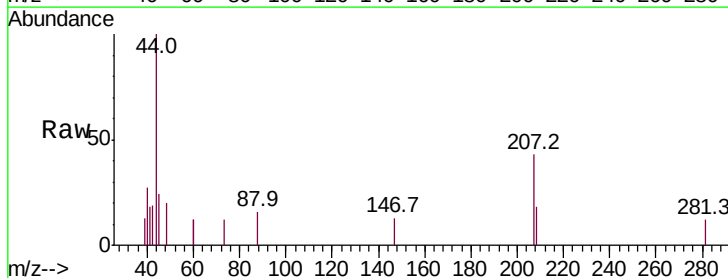
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 200.0 25.8 38.8#

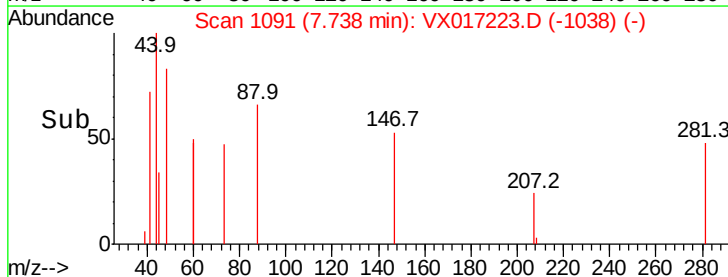
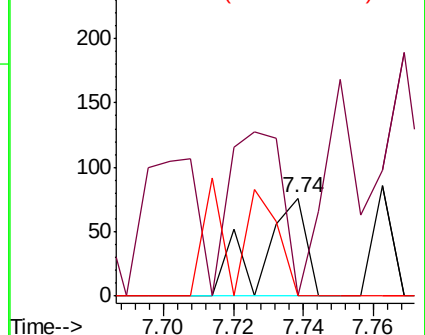
58 77.6 54.8 82.2

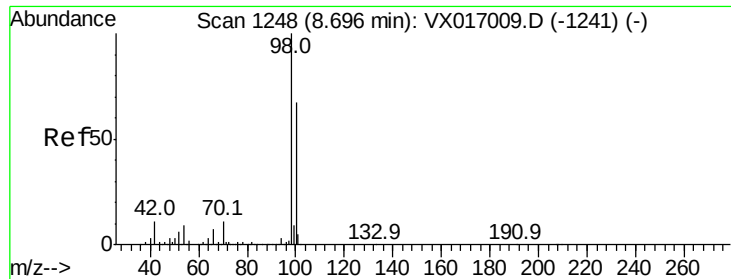


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.622 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

Instrument :

MSVOA_X

ClientSampleId :

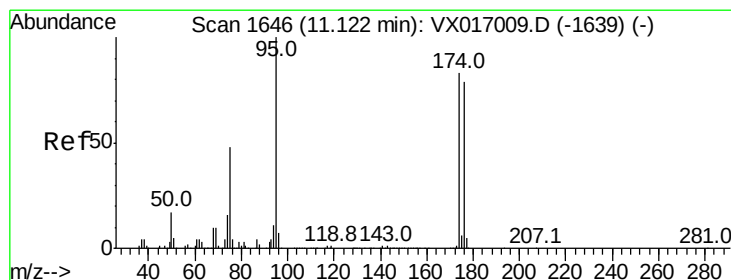
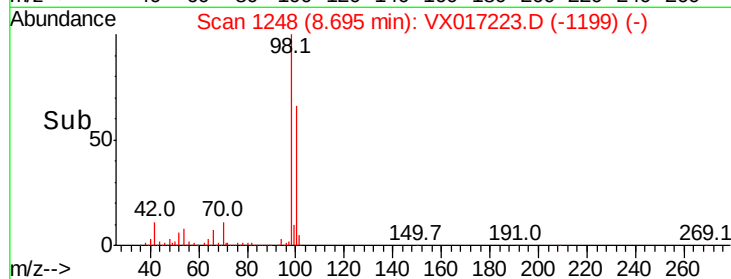
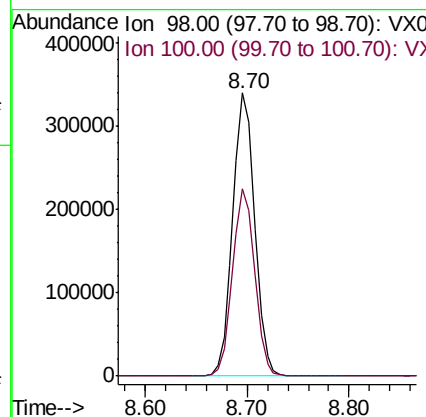
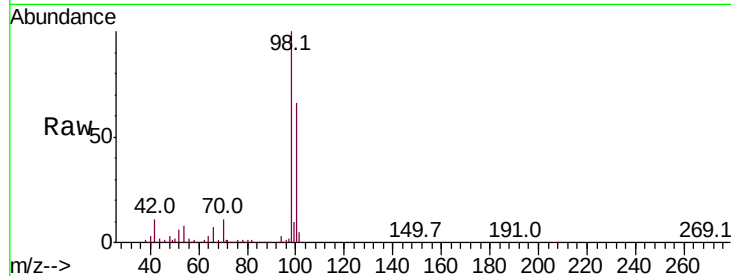
DUP-01-20200630

Tot Ion: 98 Resp: 507436

Ion Ratio Lower Upper

98 100

100 66.4 53.8 80.6



#62

4-Bromofluorobenzene

Concen: 54.183 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

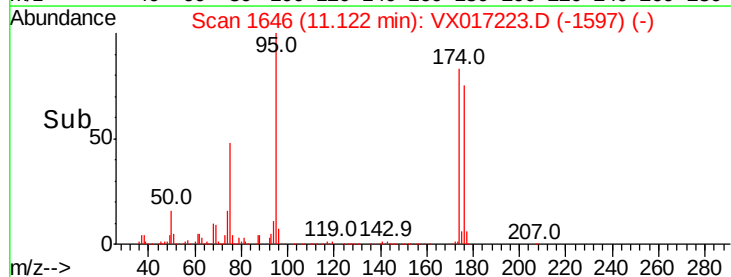
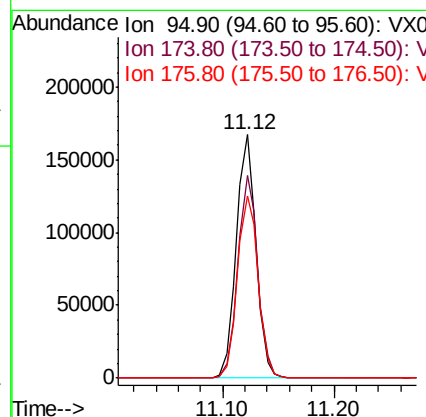
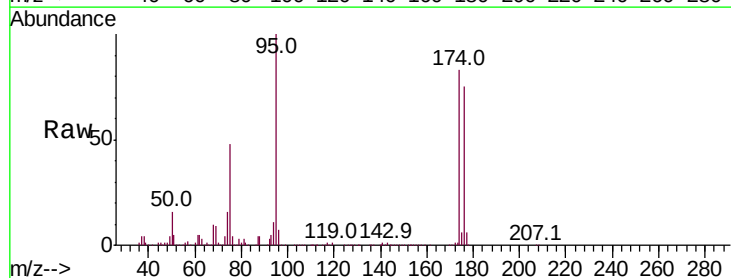
Tgt Ion: 95 Resp: 204247

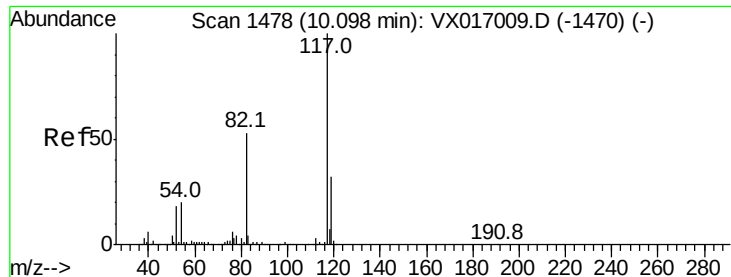
Ion Ratio Lower Upper

95 100

174 84.4 0.0 164.0

176 78.7 0.0 157.6

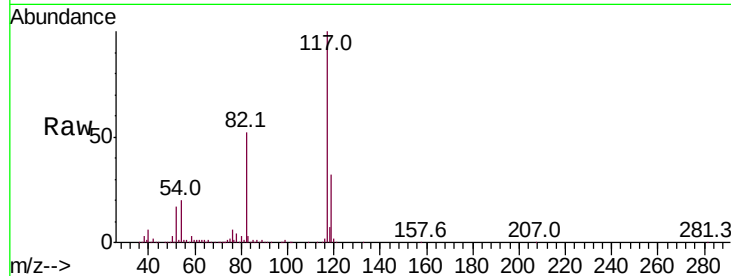




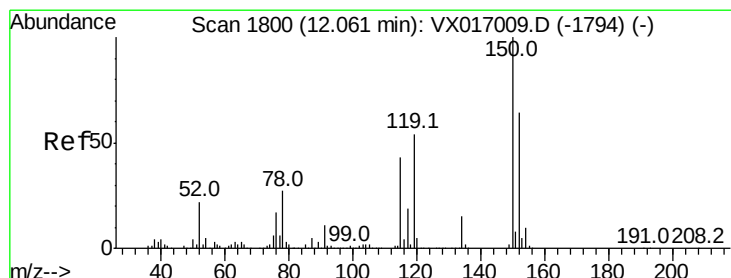
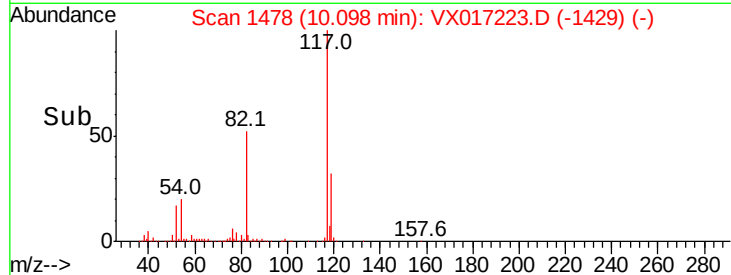
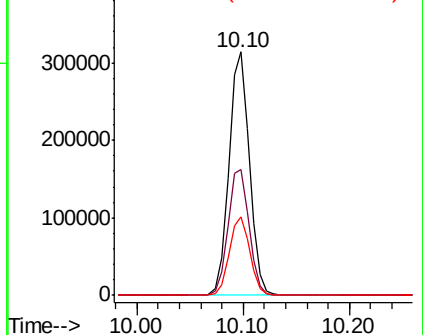
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

Instrument :
MSVOA_X
ClientSampleId :
DUP-01-20200630

Tot Ion:117 Resp: 422408
Ion Ratio Lower Upper
117 100
82 51.6 42.6 63.8
119 32.5 25.4 38.2

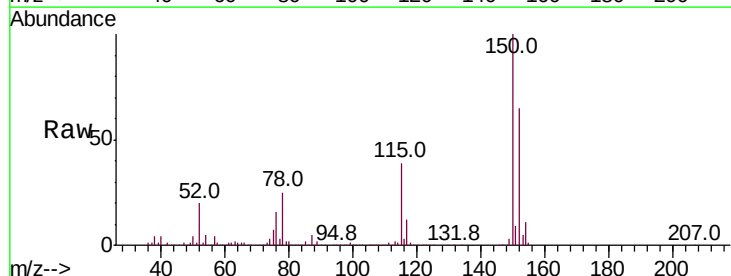


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

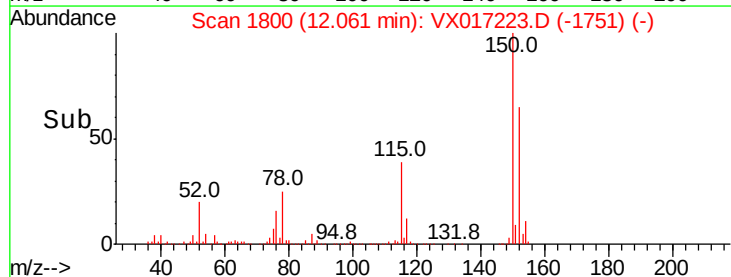
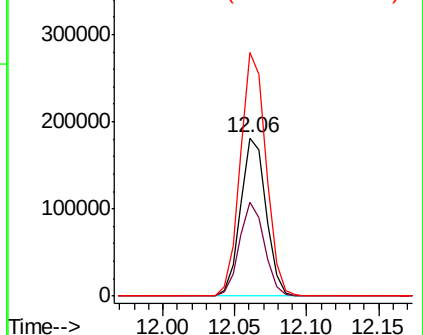


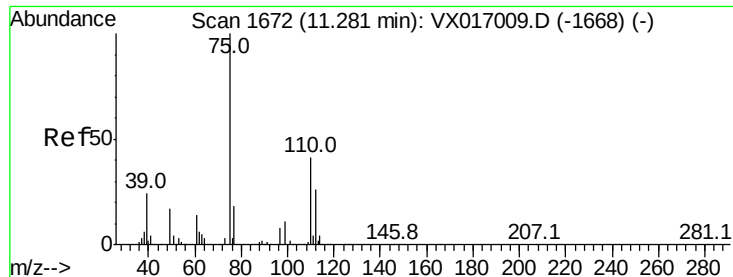
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

Tgt Ion:152 Resp: 224621
Ion Ratio Lower Upper
152 100
115 57.8 40.9 122.7
150 154.2 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: 22.794 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

Instrument :

MSVOA_X

ClientSampleId :

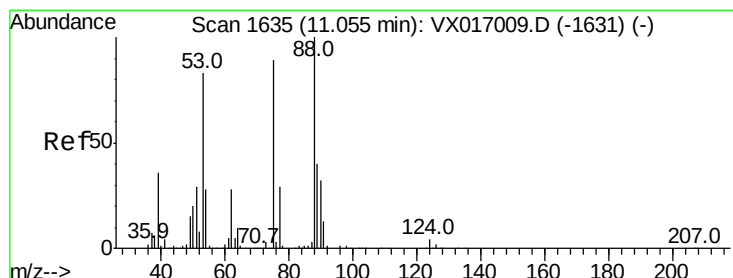
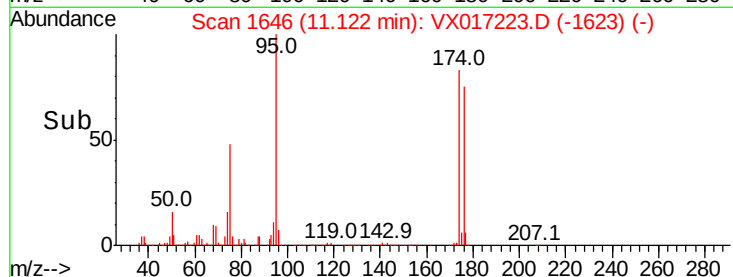
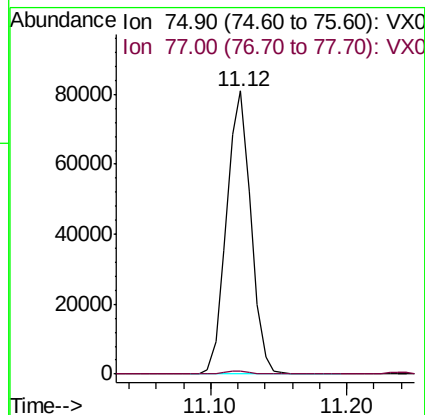
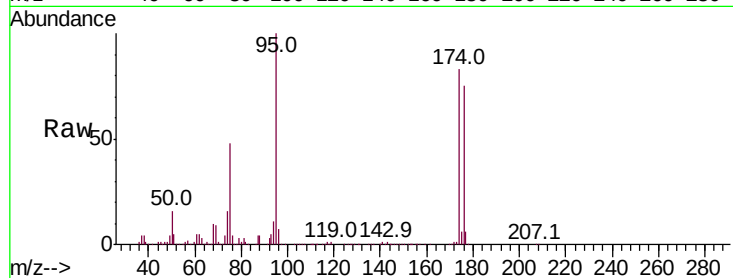
DUP-01-20200630

Tot Ion: 75 Resp: 100680

Ion Ratio Lower Upper

75 100

77 1.2 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.027 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017223.D

Acq: 07 Jul 2020 23:50

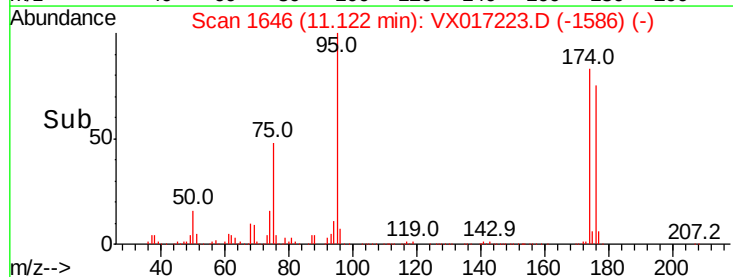
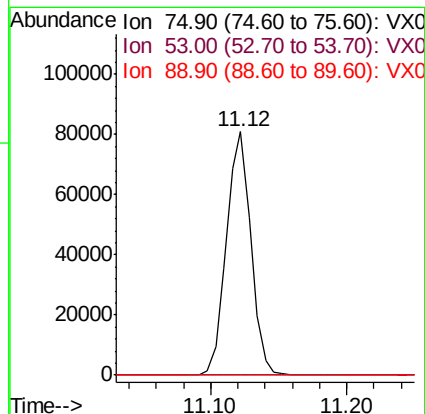
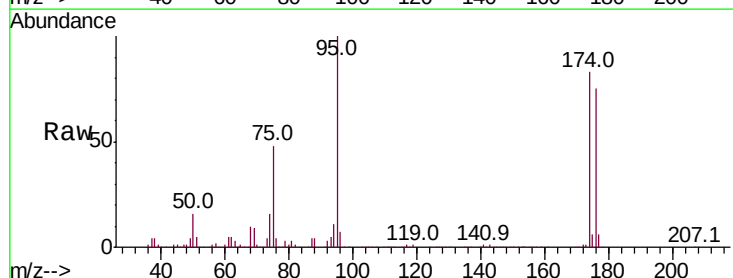
Tgt Ion: 75 Resp: 100680

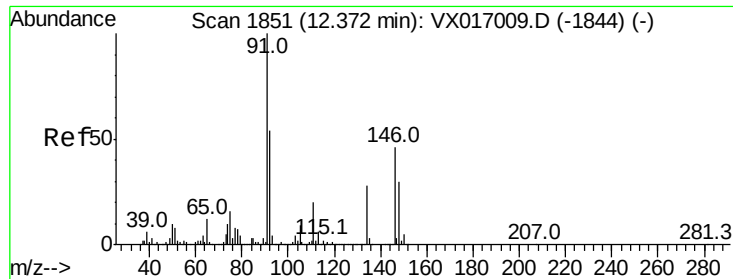
Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.0 37.0 55.4#

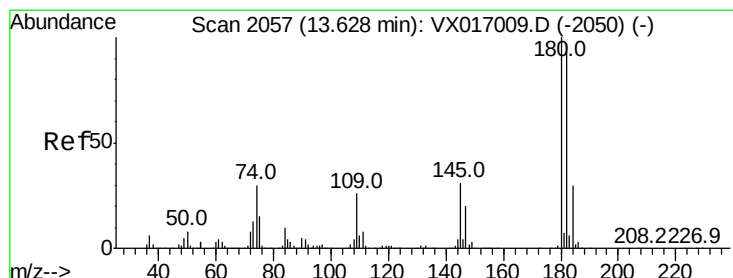
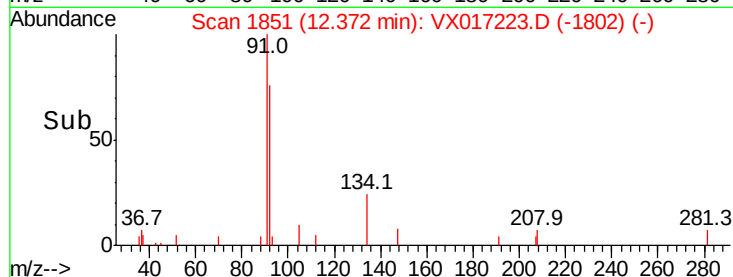
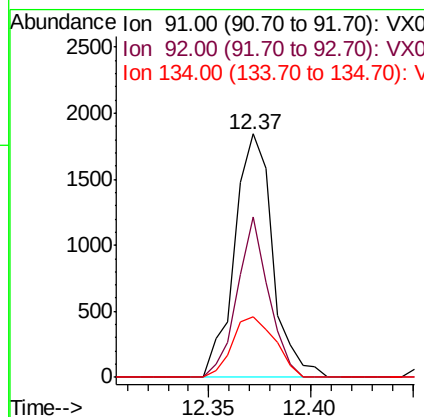
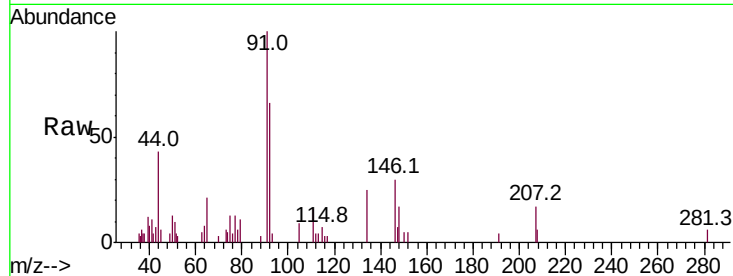




#89
n-Butylbenzene
Concen: 0.203 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

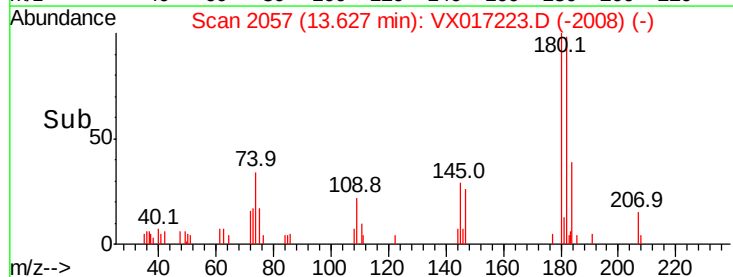
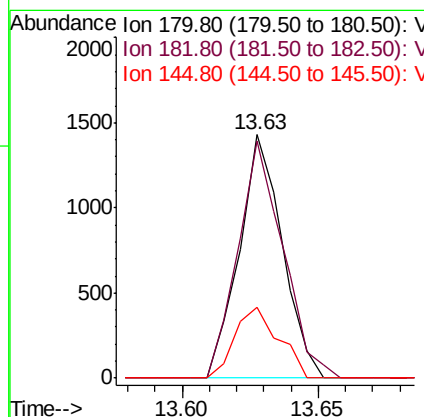
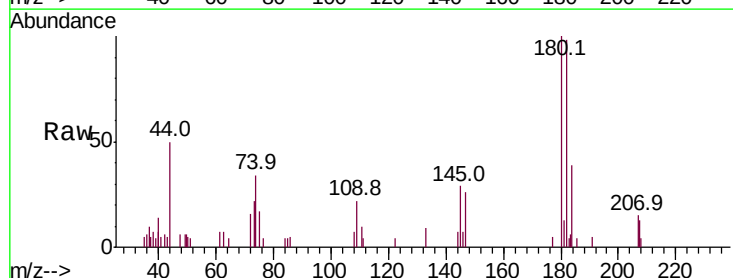
Instrument :
MSVOA_X
ClientSampleId :
DUP-01-20200630

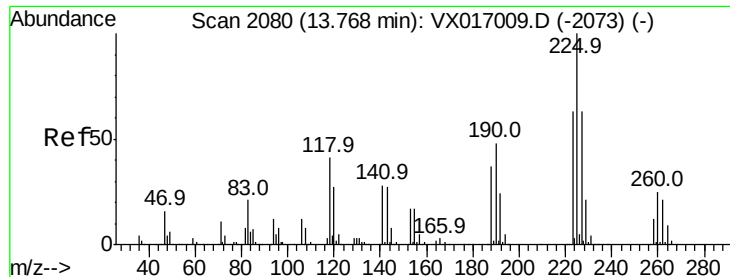
Tot Ion: 91 Resp: 2378
Ion Ratio Lower Upper
91 100
92 54.5 27.2 81.6
134 28.0 13.6 40.7



#93
1,2,4-Trichlorobenzene
Concen: 0.334 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. -0.00 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

Tgt Ion: 180 Resp: 1567
Ion Ratio Lower Upper
180 100
182 102.0 47.3 141.9
145 29.8 15.4 46.2

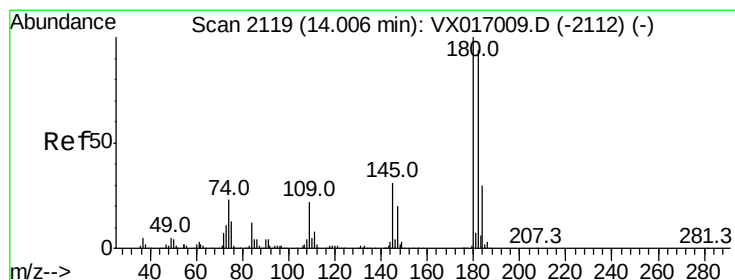
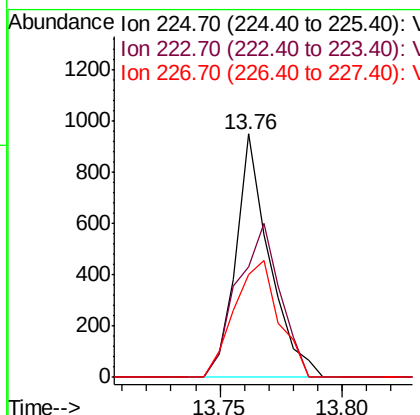
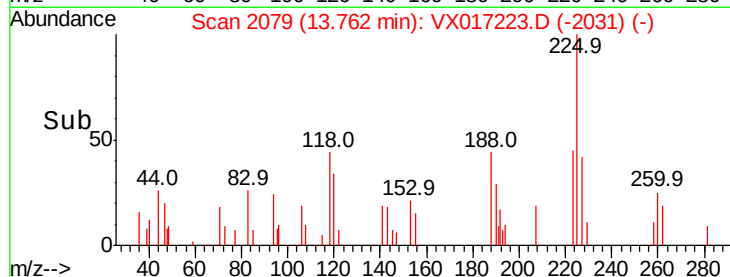
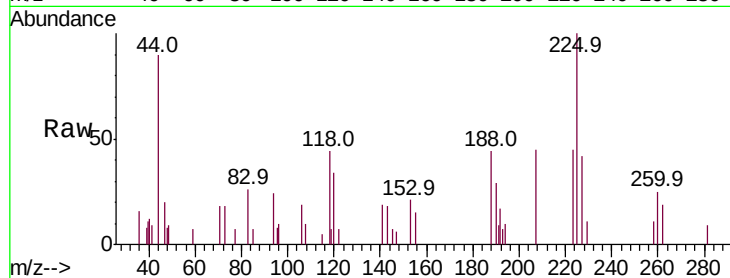




#94
Hexachlorobutadiene
Concen: 1.343 ug/l
RT: 13.76 min Scan# 2079
Delta R.T. -0.01 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

Instrument :
MSVOA_X
ClientSampleId :
DUP-01-20200630

Tot Ion:225 Resp: 902
Ion Ratio Lower Upper
225 100
223 80.8 32.5 97.5
227 63.9 33.1 99.2



#96
1,2,3-Trichlorobenzene
Concen: 0.348 ug/l
RT: 14.00 min Scan# 2118
Delta R.T. -0.01 min
Lab File: VX017223.D
Acq: 07 Jul 2020 23:50

Tgt Ion:180 Resp: 1578
Ion Ratio Lower Upper
180 100
182 77.6 47.1 141.4
145 35.5 16.6 49.7

