

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031119\
 Data File : VX007978.D
 Acq On : 11 Mar 2019 18:57
 Operator : JC/SP
 Sample : K1793-04DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20190305DL

Quant Time: Mar 12 08:40:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	260488	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	404123	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	383449	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187897	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	140289	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
35) Dibromofluoromethane	5.50	113	131221	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
50) Toluene-d8	8.71	98	490404	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
62) 4-Bromofluorobenzene	11.13	95	181637	54.57	ug/l	0.00
Spiked Amount			Recovery	=	109.14%	

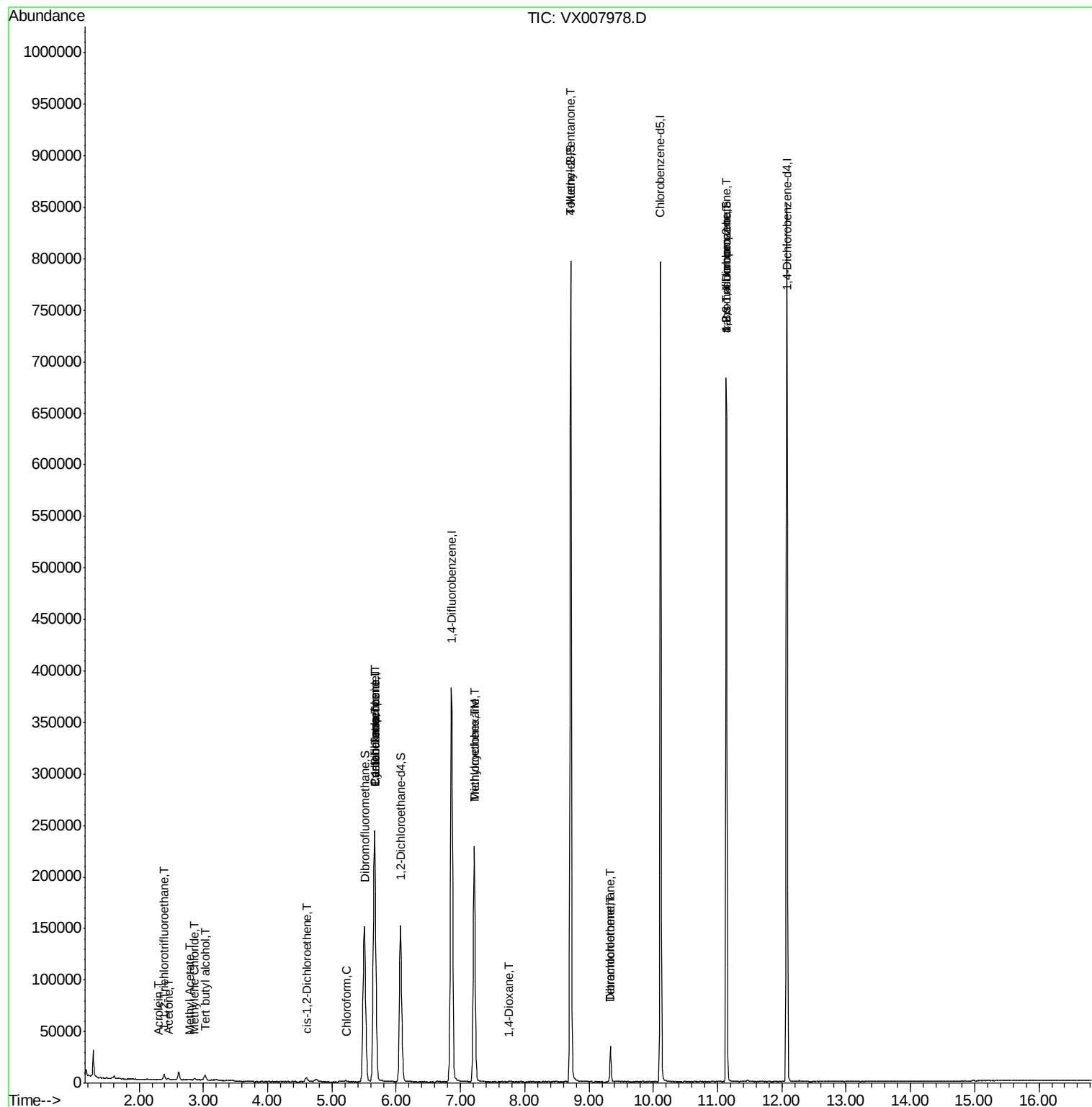
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	341	Below Cal	#	64
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1751	0.762	ug/l	96
11) Tert butyl alcohol	3.03	59	3023	4.919	ug/l #	77
13) Acrolein	2.29	56	19	1.596	ug/l #	1
16) Acetone	2.45	43	1273	0.800	ug/l	94
17) Carbon Disulfide	2.57	76	557	Below Cal	#	83
18) Methyl Acetate	2.79	43	931	0.276	ug/l #	85
20) Methylene Chloride	2.85	84	542	0.214	ug/l #	85
27) cis-1,2-Dichloroethene	4.60	96	2469	0.885	ug/l	97
30) Chloroform	5.22	83	1610	0.370	ug/l	87
31) Cyclohexane	5.67	56	3986	0.944	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15320	4.187	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21757	6.263	ug/l #	16
39) Methylcyclohexane	7.21	83	1083	0.244	ug/l #	1
44) Trichloroethene	7.21	130	95123	31.685	ug/l	97
49) 1,4-Dioxane	7.76	88	329	4.740	ug/l	87
51) 4-Methyl-2-Pentanone	8.71	43	1866	0.451	ug/l #	1
60) Dibromochloromethane	9.34	129	6274	2.229	ug/l #	11
64) Tetrachloroethene	9.34	164	6843	2.154	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	82745	20.986	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	82745	67.082	ug/l #	11

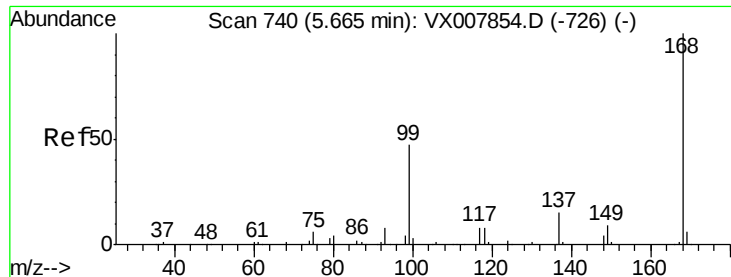
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 07 07:33:26 2019
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: VX007978.D

Acq: 11 Mar 2019 18:57

Instrument :

MSVOA_X

ClientSampleId :

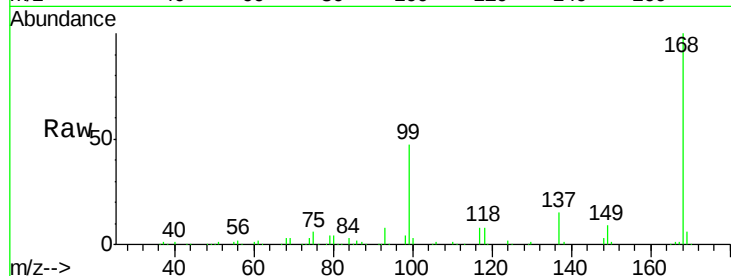
DUP01-20190305DL

Tot Ion:168 Resp: 260488

Ion Ratio Lower Upper

168 100

99 46.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

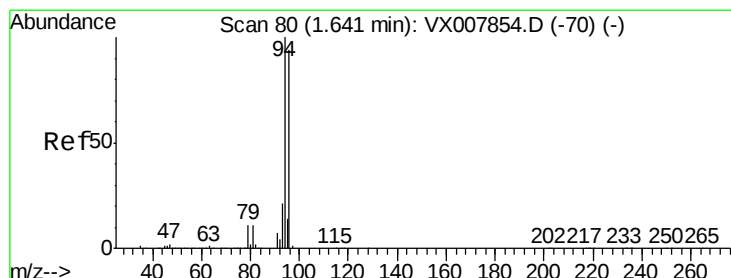
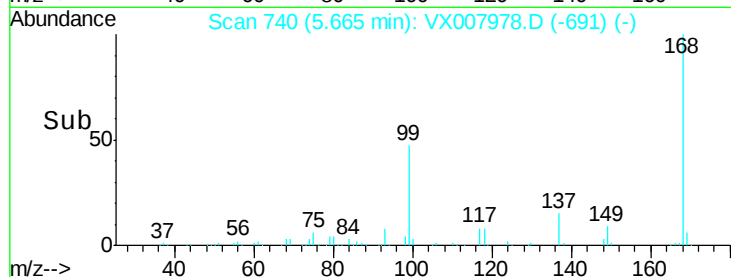
40000

20000

0

5.50 5.60 5.70 5.80 5.90

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007978.D

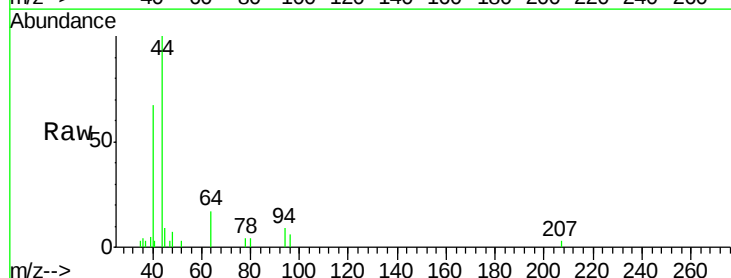
Acq: 11 Mar 2019 18:57

Tgt Ion: 94 Resp: 341

Ion Ratio Lower Upper

94 100

96 59.4 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

150

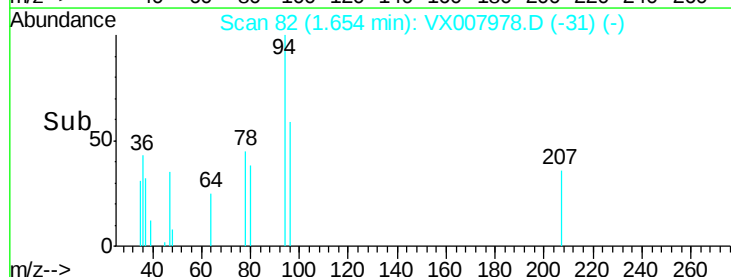
100

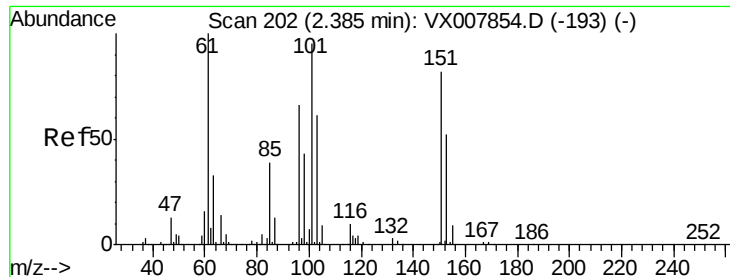
50

0

1.60 1.65 1.70

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.762 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20190305DL

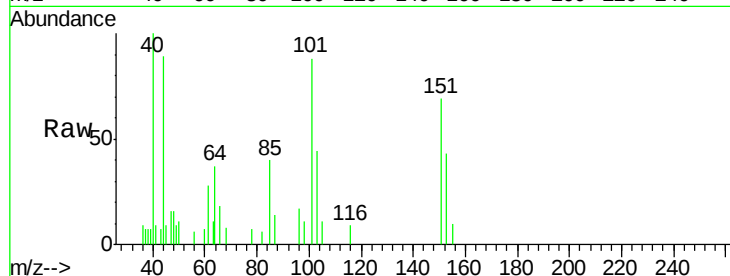
Tot Ion:101 Resp: 1751

Ion Ratio Lower Upper

101 100

85 45.9 33.8 50.6

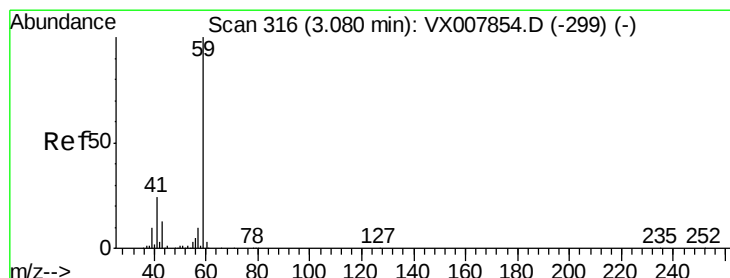
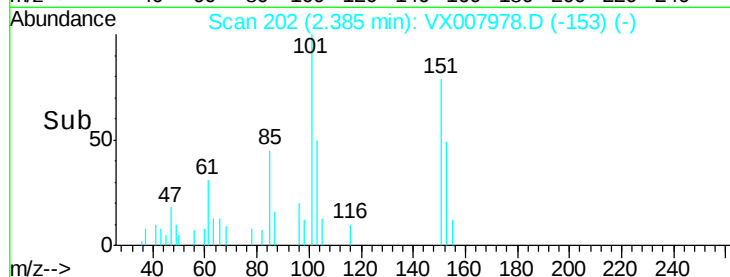
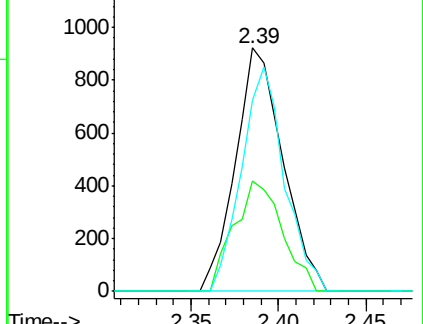
151 83.4 69.1 103.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 4.919 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX007978.D

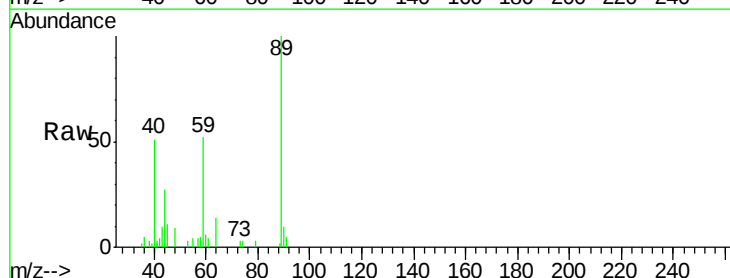
Acq: 11 Mar 2019 18:57

Tgt Ion: 59 Resp: 3023

Ion Ratio Lower Upper

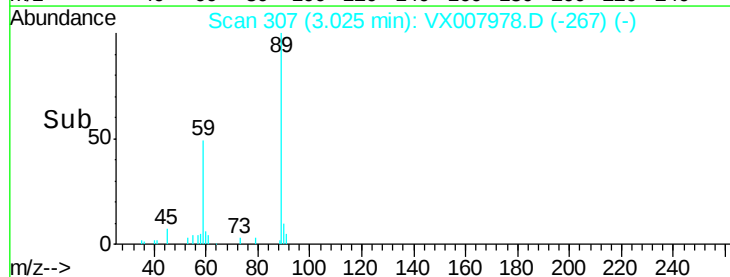
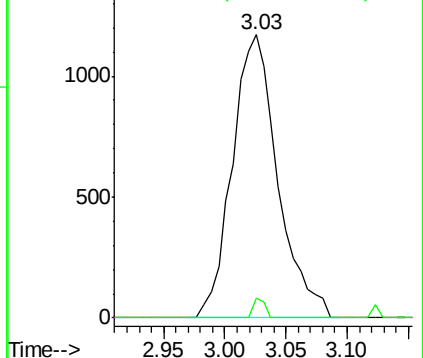
59 100

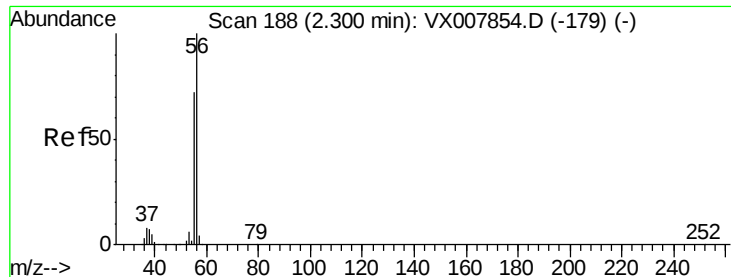
57 1.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.596 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

Instrument :

MSVOA_X

ClientSampleId :

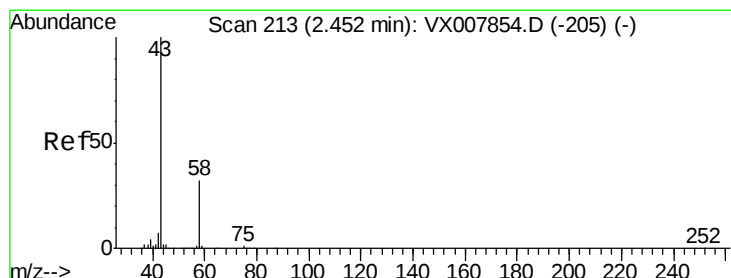
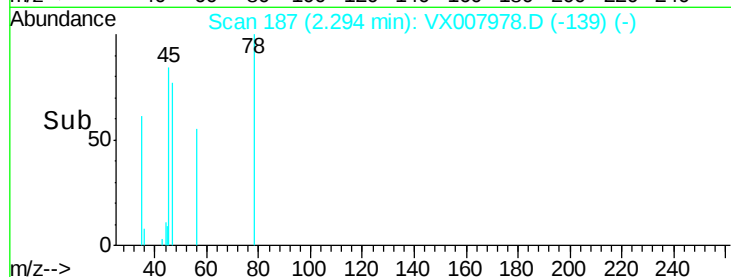
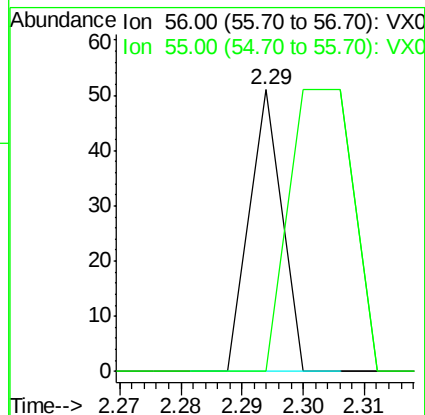
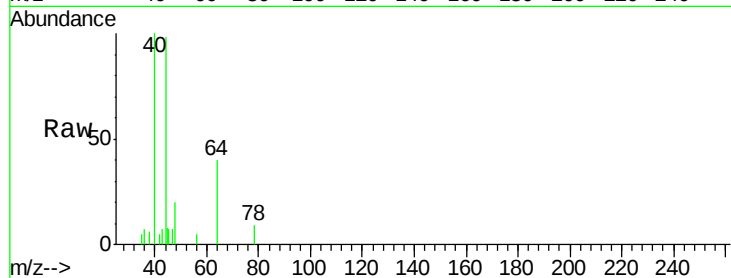
DUP01-20190305DL

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 194.7 57.8 86.6#



#16

Acetone

Concen: 0.800 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX007978.D

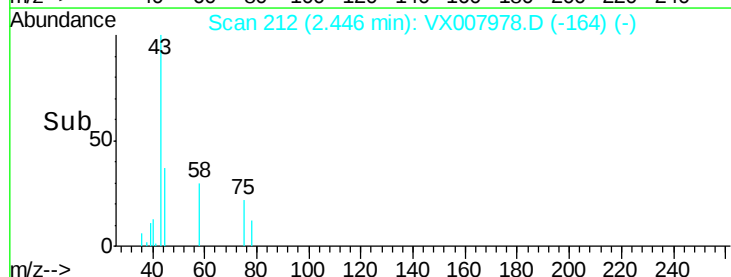
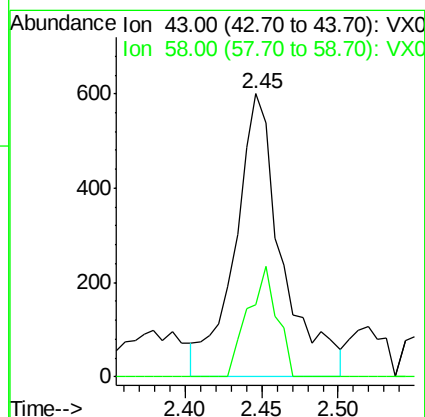
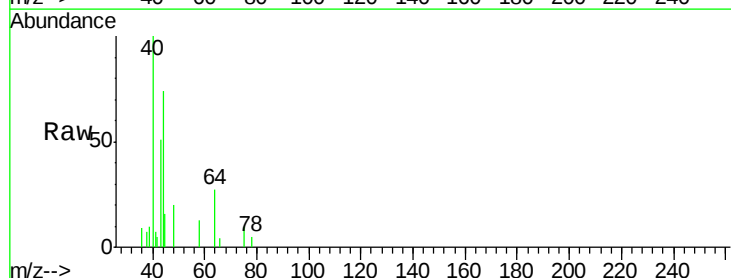
Acq: 11 Mar 2019 18:57

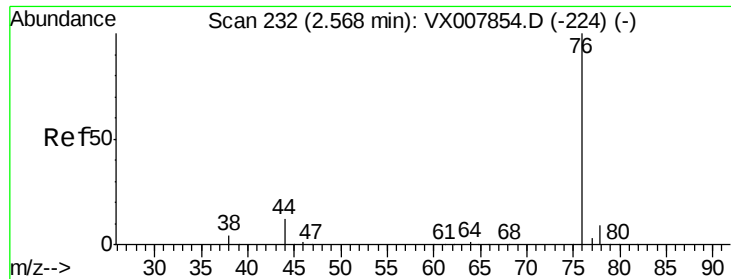
Tgt Ion: 43 Resp: 1273

Ion Ratio Lower Upper

43 100

58 28.4 25.5 38.3

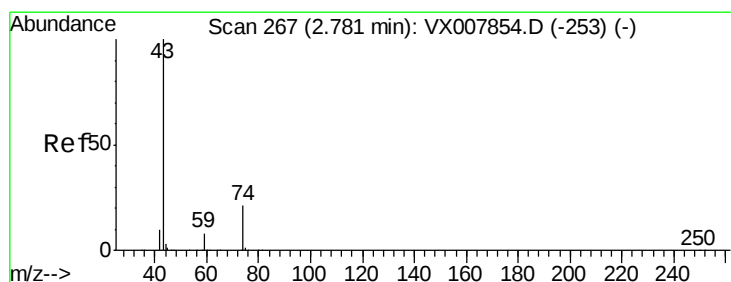
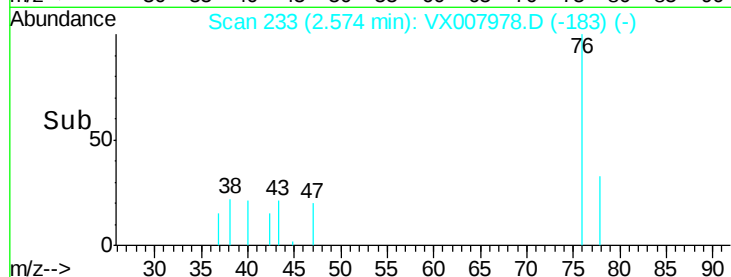
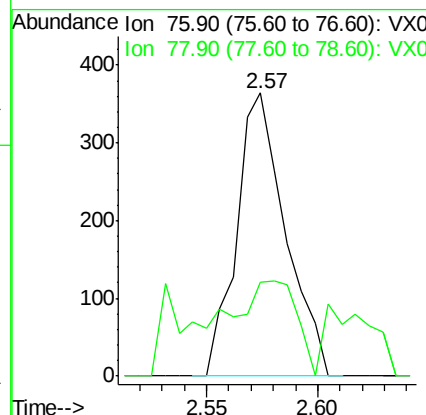
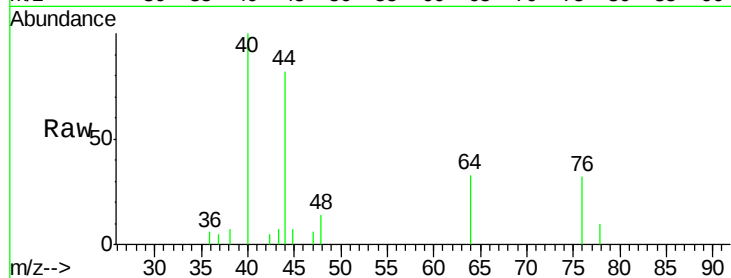




#17
Carbon Disulfide
Concen: Below Cal
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX007978.D
Acq: 11 Mar 2019 18:57

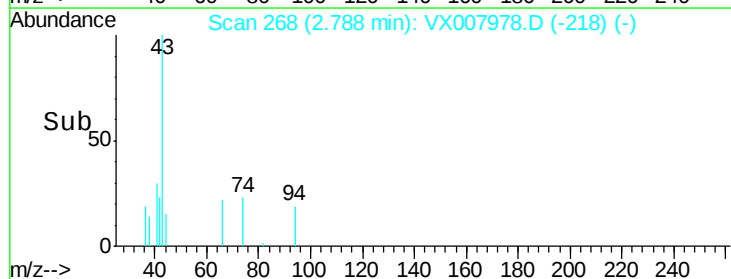
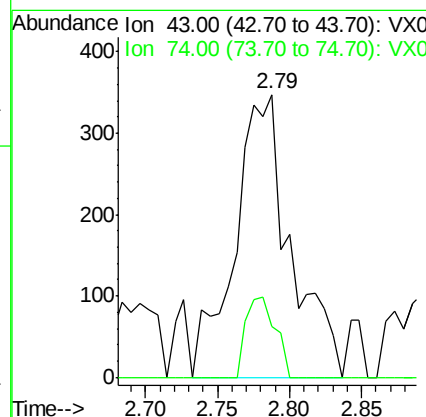
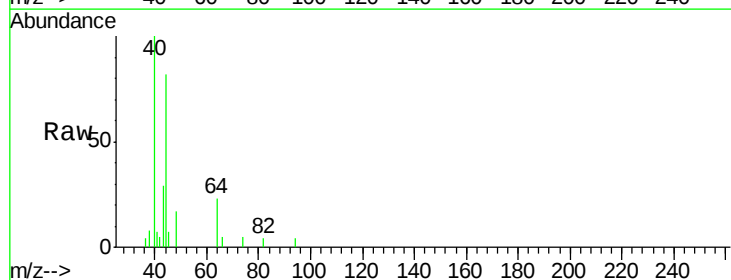
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20190305DL

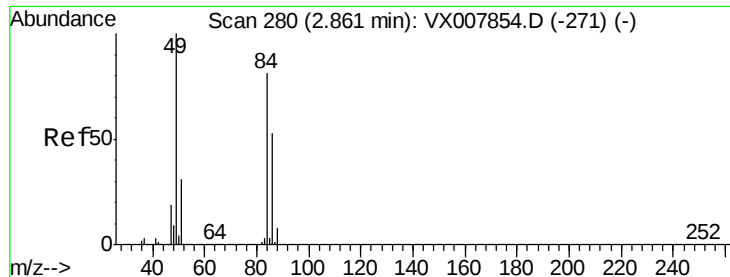
Tot Ion: 76 Resp: 557
Ion Ratio Lower Upper
76 100
78 15.1 7.2 10.8#



#18
Methyl Acetate
Concen: 0.276 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX007978.D
Acq: 11 Mar 2019 18:57

Tgt Ion: 43 Resp: 931
Ion Ratio Lower Upper
43 100
74 14.9 17.8 26.6#

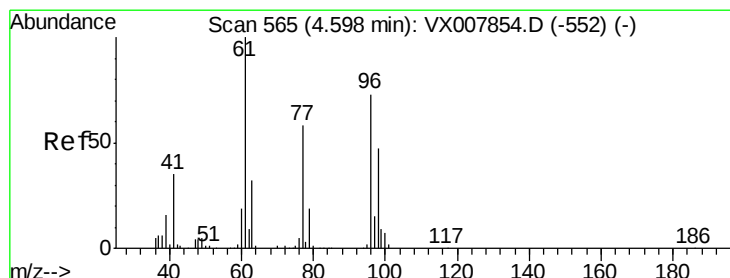
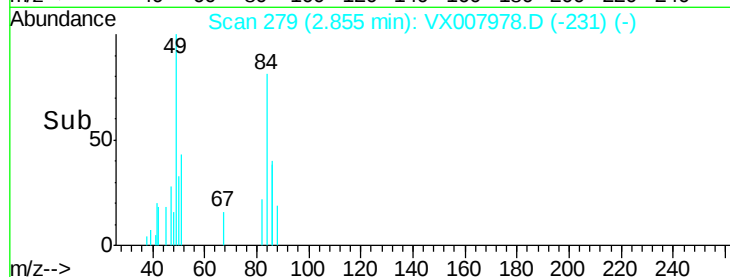
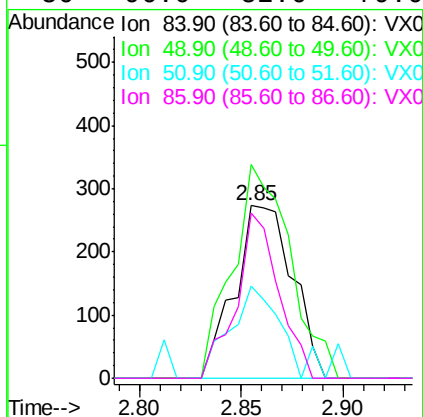
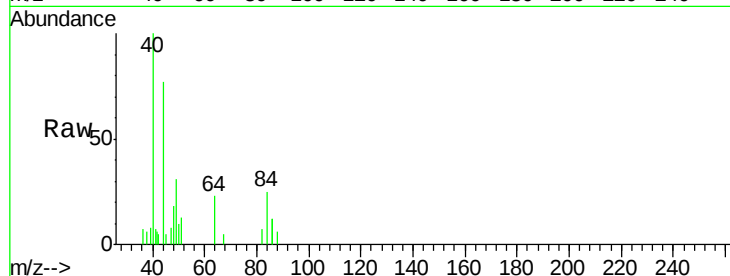




#20
Methvlene Chloride
Concen: 0.214 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007978.D
Acq: 11 Mar 2019 18:57

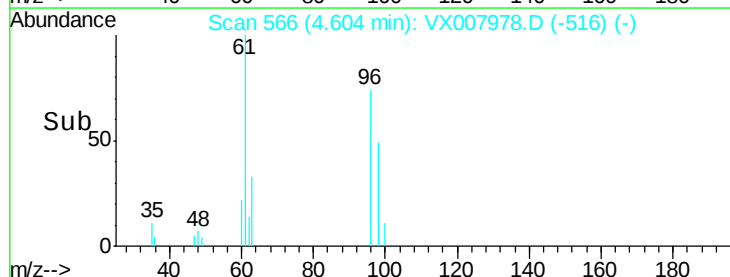
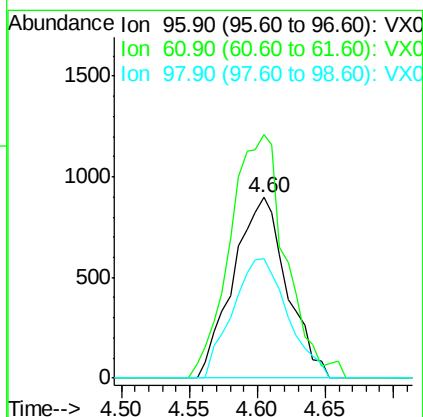
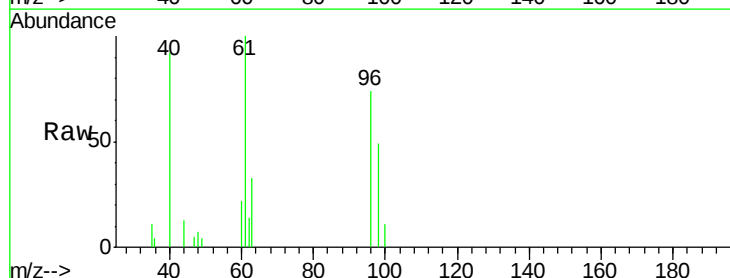
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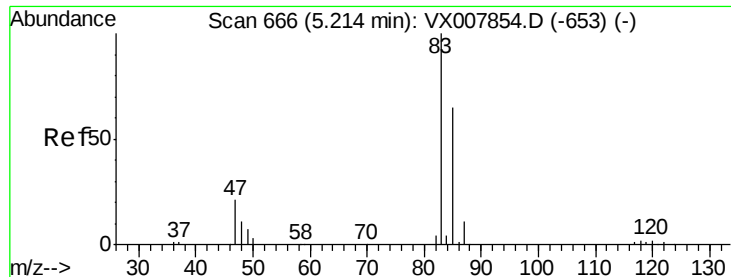
Tot Ion: 84 Resp: 542
Ion Ratio Lower Upper
84 100
49 123.8 99.3 148.9
51 53.8 31.3 46.9#
86 96.0 52.6 79.0#



#27
cis-1,2-Dichloroethene
Concen: 0.885 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX007978.D
Acq: 11 Mar 2019 18:57

Tgt Ion: 96 Resp: 2469
Ion Ratio Lower Upper
96 100
61 140.5 0.0 288.0
98 68.3 0.0 129.0

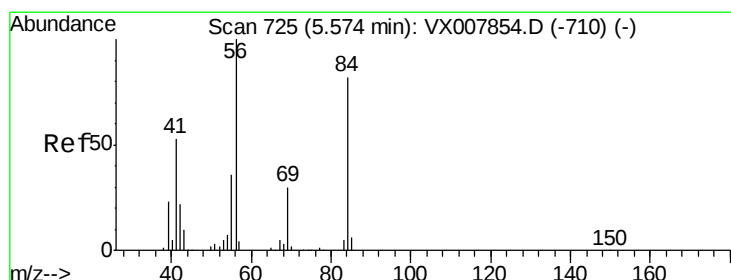
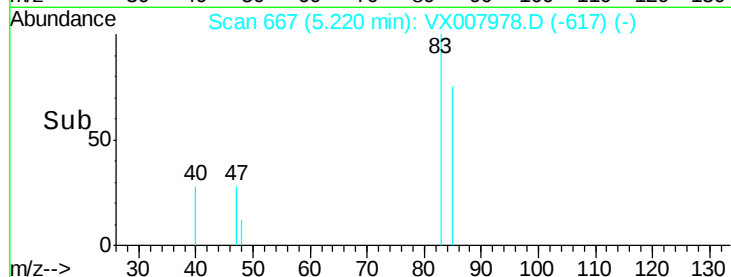
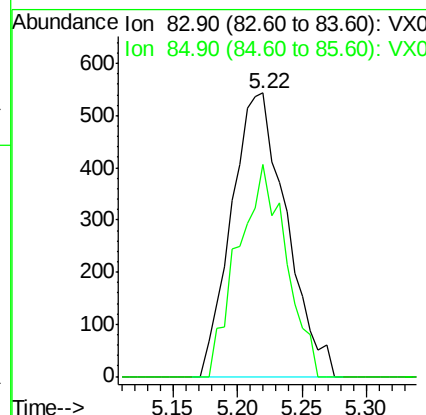
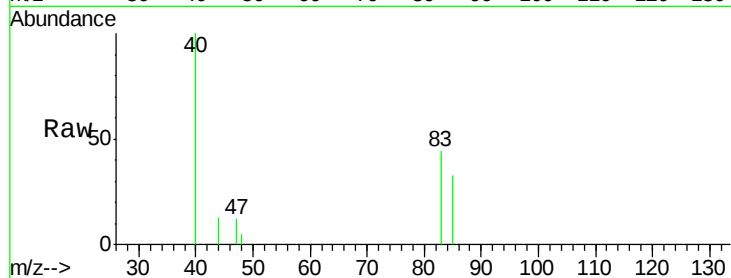




#30
Chloroform
Concen: 0.370 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX007978.D
Acq: 11 Mar 2019 18:57

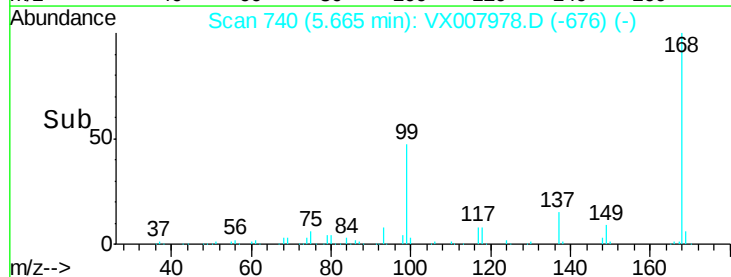
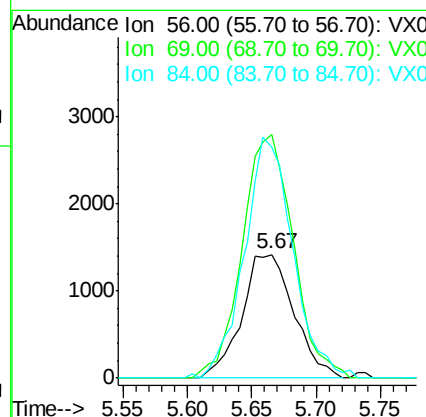
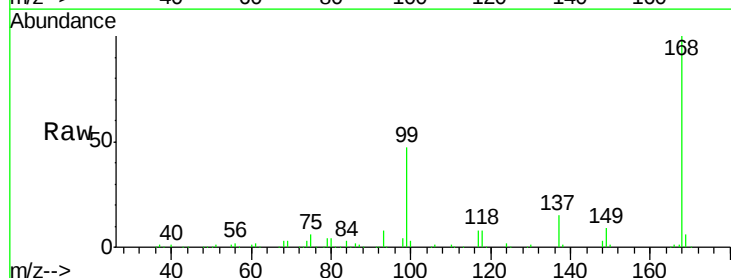
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DUP01-20190305DL

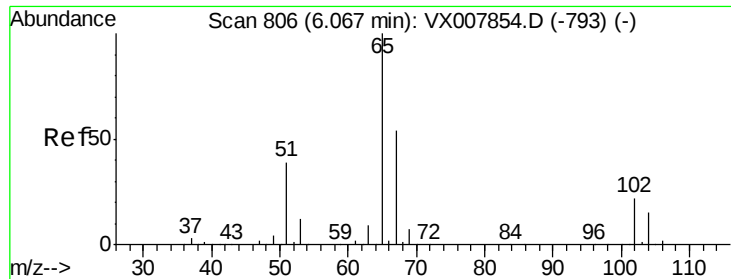
Tot Ion: 83 Resp: 1610
Ion Ratio Lower Upper
83 100
85 74.8 51.8 77.6



#31
Cyclohexane
Concen: 0.944 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX007978.D
Acq: 11 Mar 2019 18:57

Tgt Ion: 56 Resp: 3986
Ion Ratio Lower Upper
56 100
69 196.8 24.0 36.0#
84 182.7 65.3 97.9#

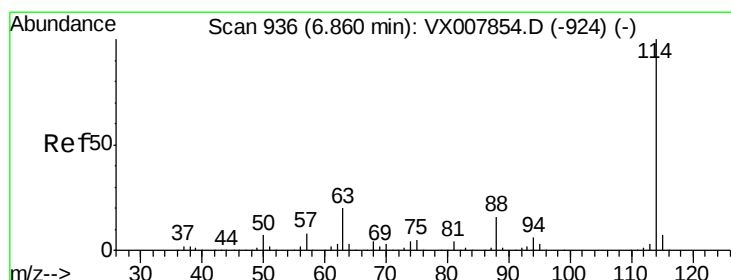
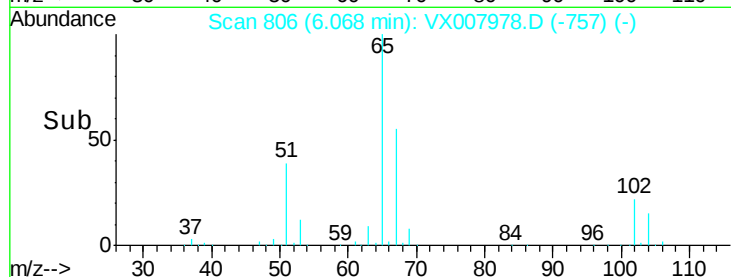
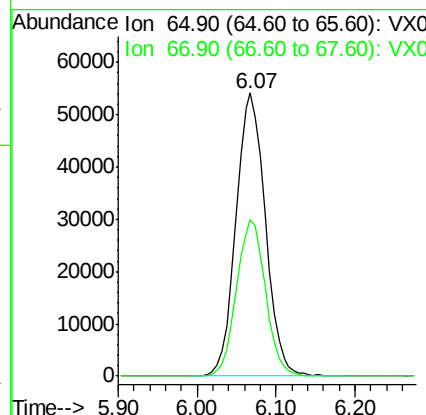
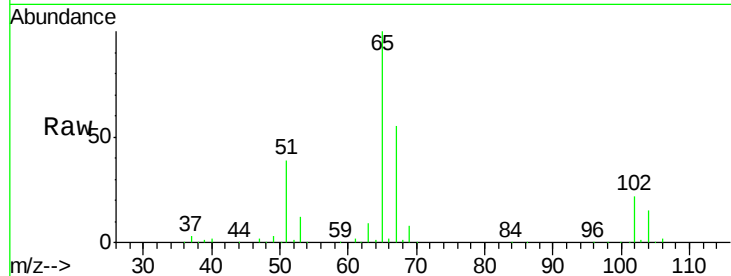




#33
 1,2-Dichloroethane-d4
 Concen: 51.053 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007978.D
 Acq: 11 Mar 2019 18:57

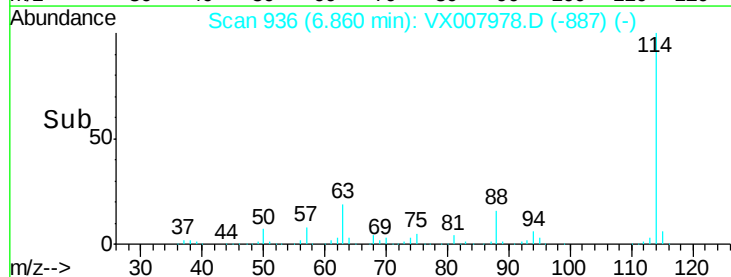
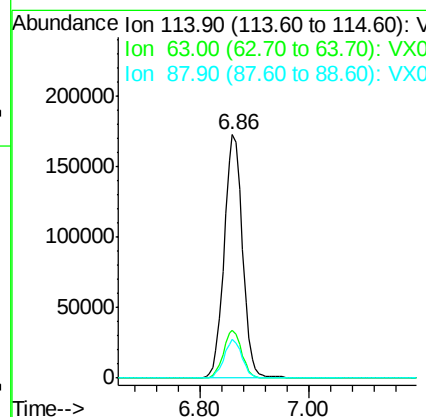
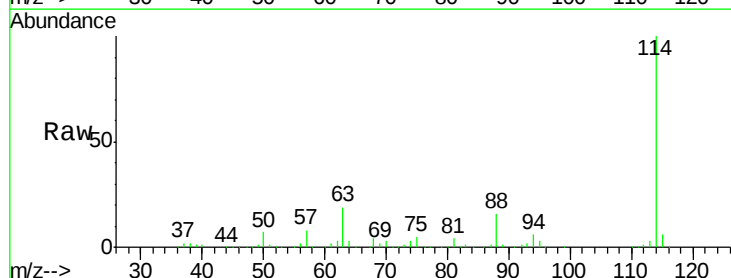
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 DUP01-20190305DL

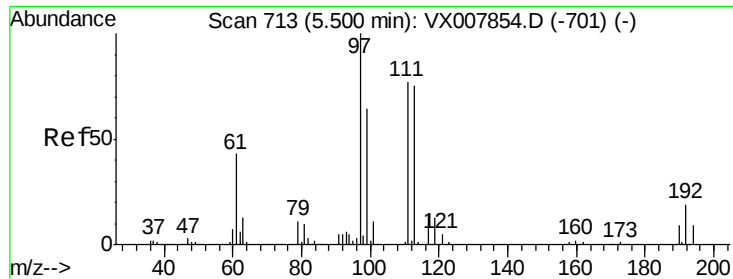
Tot Ion: 65 Resp: 140289
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007978.D
 Acq: 11 Mar 2019 18:57

Tgt Ion: 114 Resp: 404123
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.7 0.0 31.4

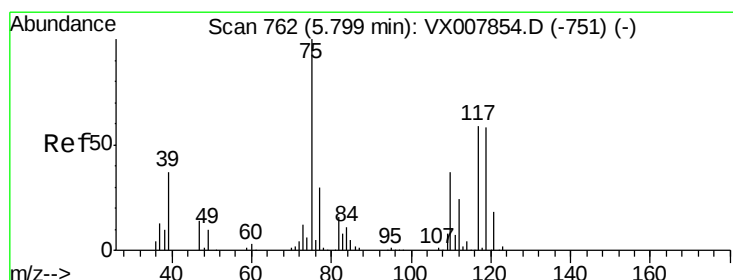
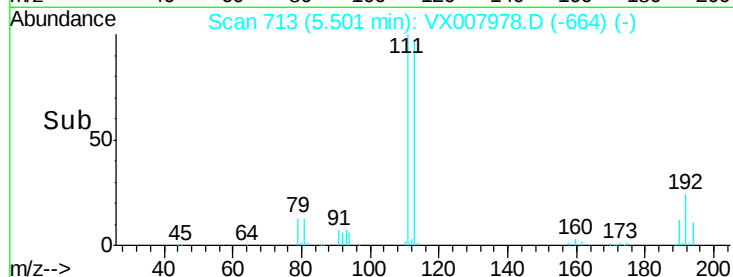
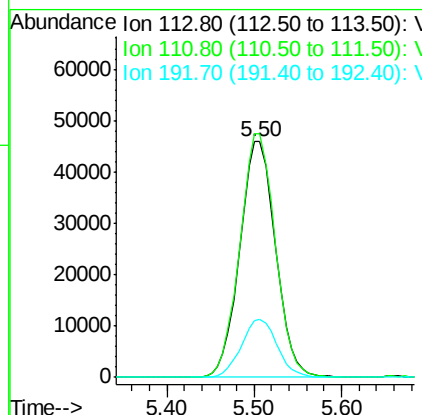
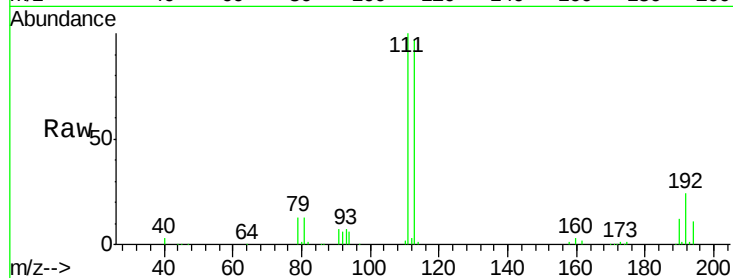




#35
 Dibromofluoromethane
 Concen: 50.762 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX007978.D
 Acq: 11 Mar 2019 18:57

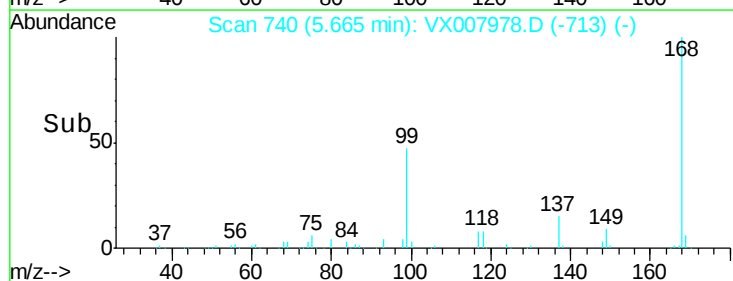
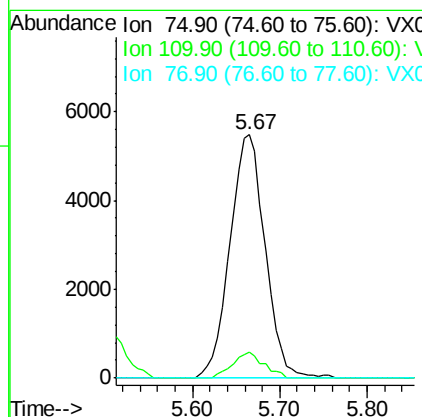
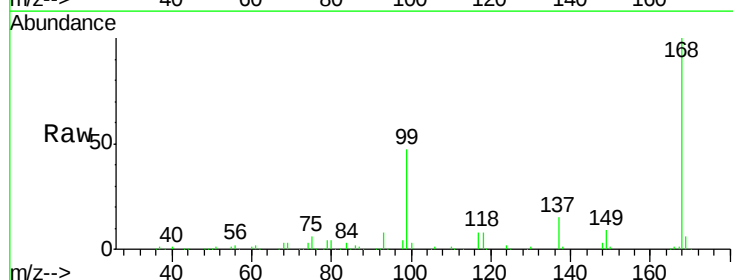
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20190305DL

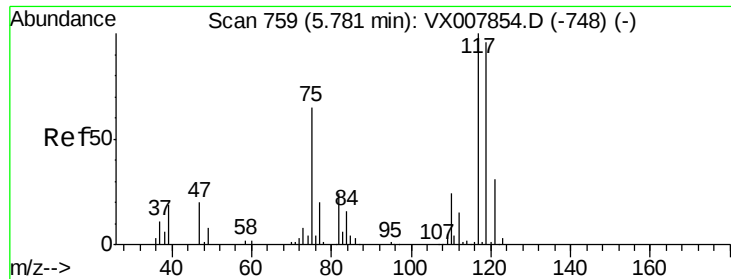
Tot Ion:113 Resp: 131221
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.4 122.0
 192 24.6 19.4 29.0



#36
 1,1-Dichloropropene
 Concen: 4.187 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007978.D
 Acq: 11 Mar 2019 18:57

Tgt Ion: 75 Resp: 15320
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.4 55.0#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.263 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20190305DL

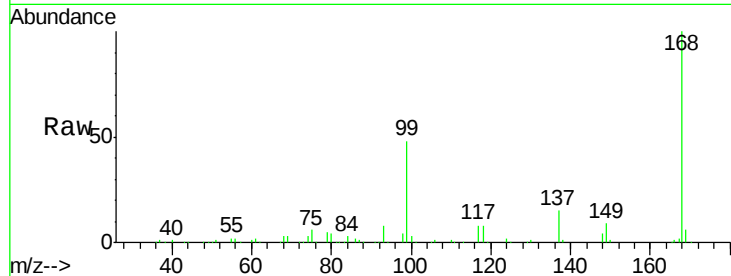
Tot Ion:117 Resp: 21757

Ion Ratio Lower Upper

117 100

119 5.3 76.2 114.2#

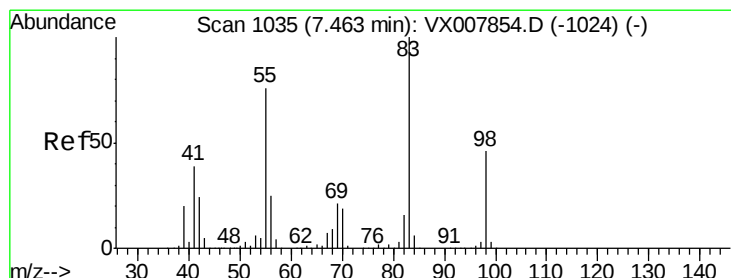
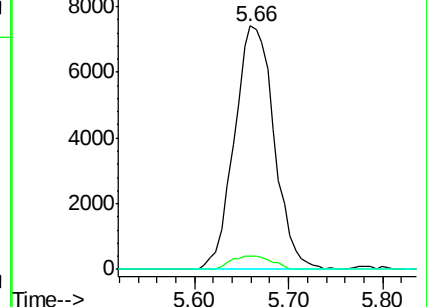
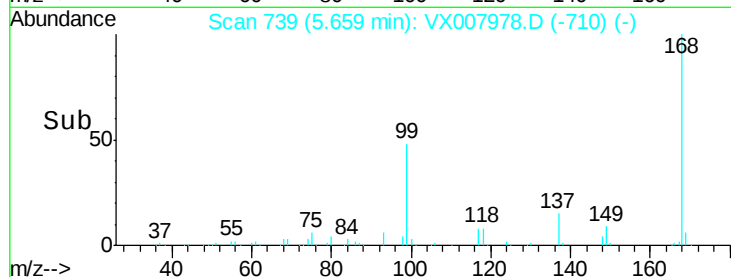
121 0.0 24.6 36.8#



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



#39

Methylcyclohexane

Concen: 0.244 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.26 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

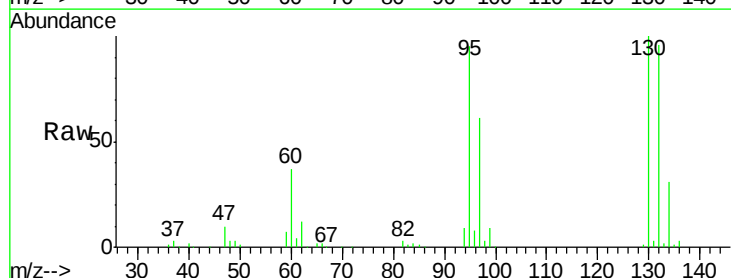
Tgt Ion: 83 Resp: 1083

Ion Ratio Lower Upper

83 100

55 0.0 60.4 90.6#

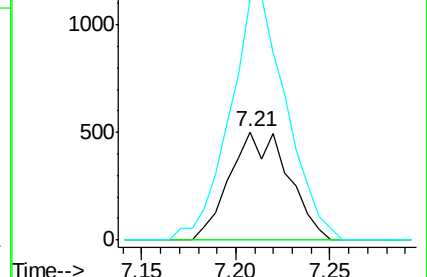
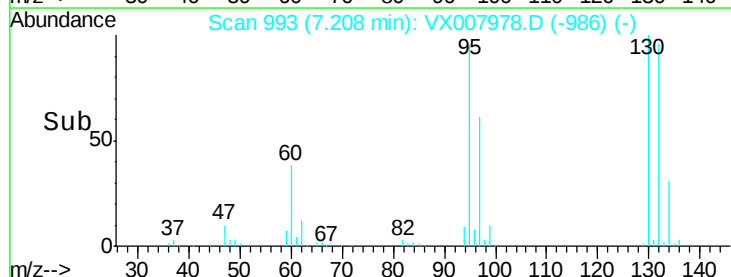
98 222.0 36.5 54.7#

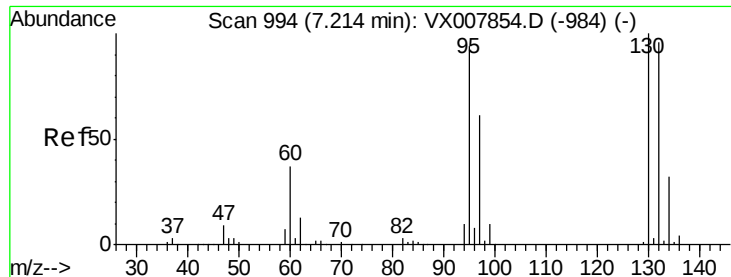


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 31.685 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

Instrument :

MSVOA_X

ClientSampleId :

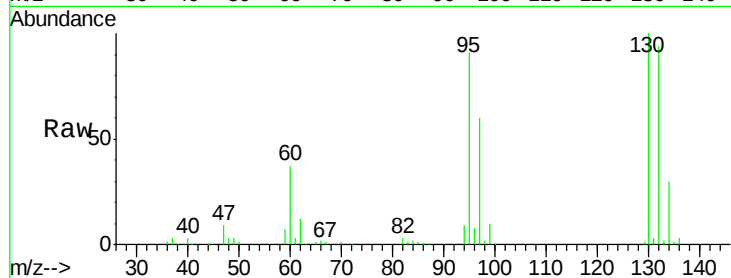
DUP01-20190305DL

Tot Ion:130 Resp: 95123

Ion Ratio Lower Upper

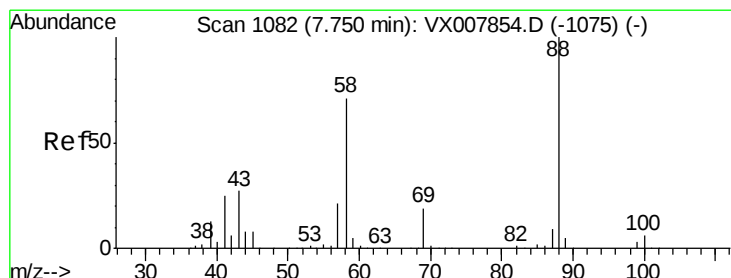
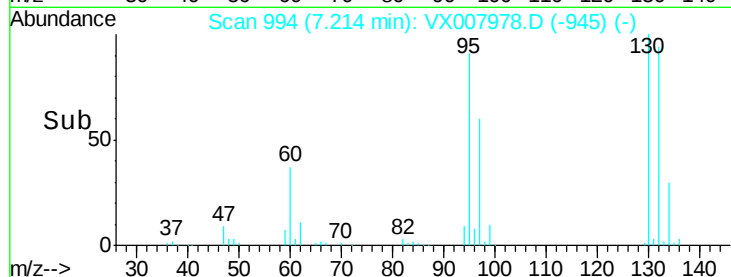
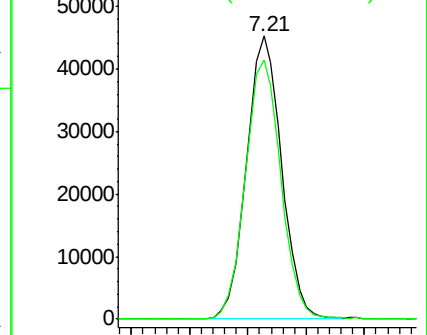
130 100

95 91.4 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 4.740 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

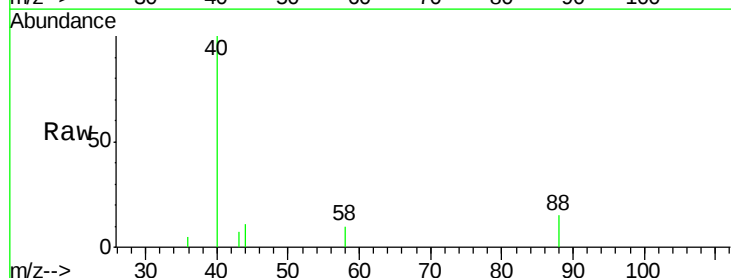
Tgt Ion: 88 Resp: 329

Ion Ratio Lower Upper

88 100

43 29.8 25.1 37.7

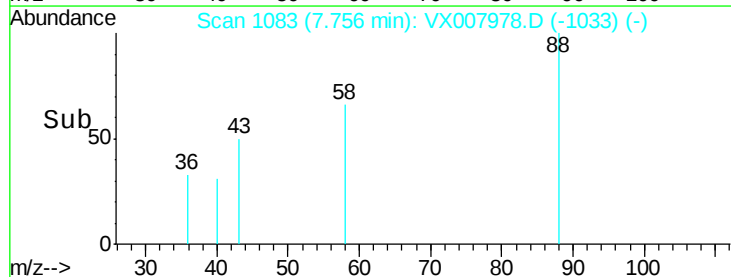
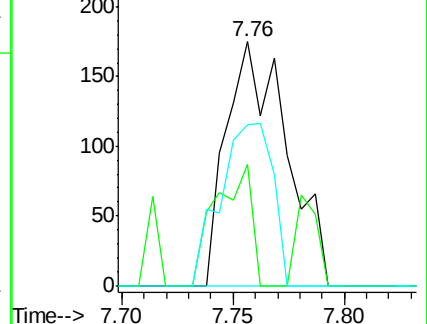
58 58.1 57.8 86.6

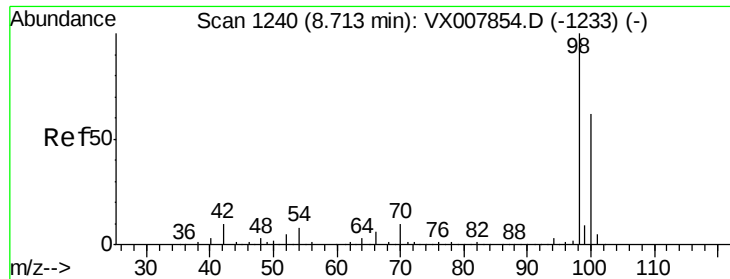


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.656 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

Instrument :

MSVOA_X

ClientSampleId :

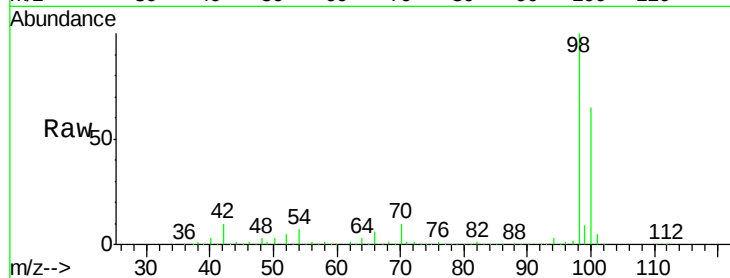
DUP01-20190305DL

Tot Ion: 98 Resp: 490404

Ion Ratio Lower Upper

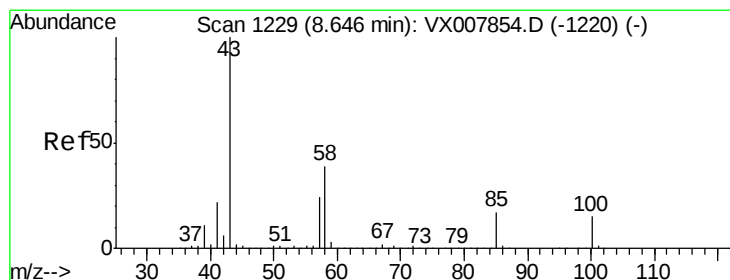
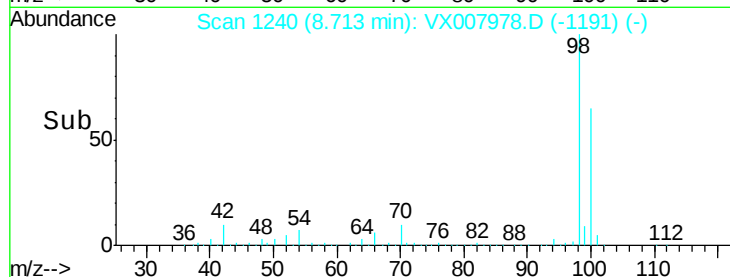
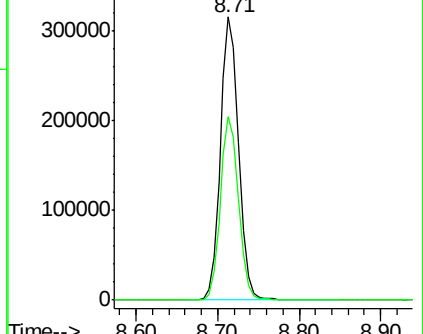
98 100

100 64.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.451 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.07 min

Lab File: VX007978.D

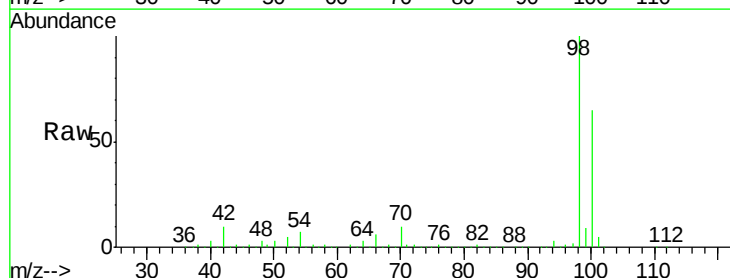
Acq: 11 Mar 2019 18:57

Tgt Ion: 43 Resp: 1866

Ion Ratio Lower Upper

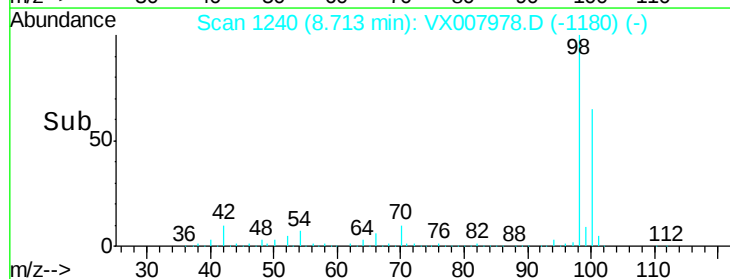
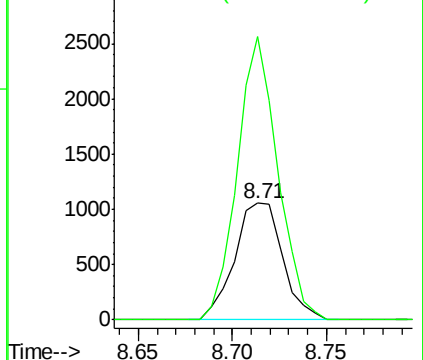
43 100

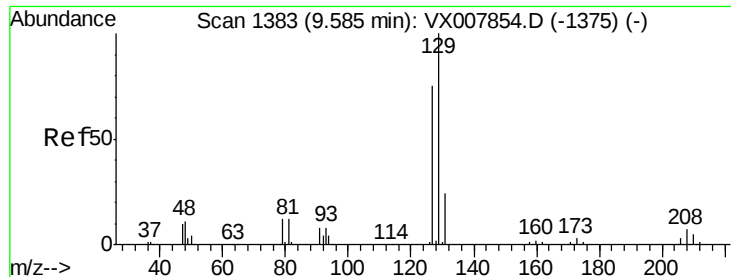
58 204.0 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#60

Dibromochloromethane

Concen: 2.229 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

Instrument :

MSVOA_X

ClientSampleId :

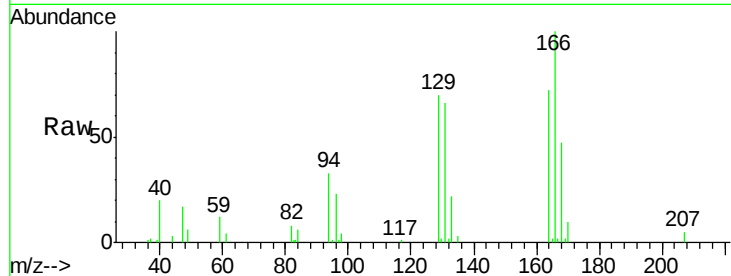
DUP01-20190305DL

Tot Ion:129 Resp: 6274

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

4000

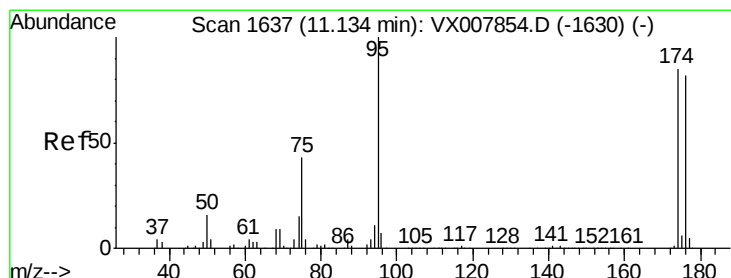
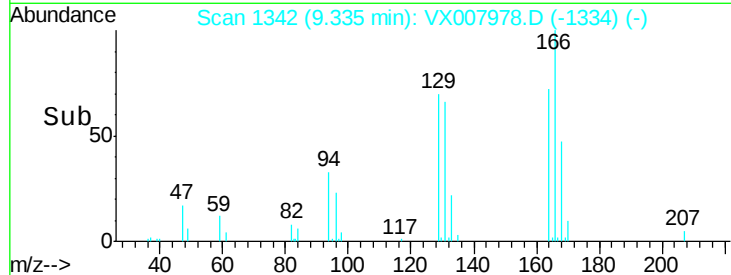
3000

2000

1000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 54.570 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

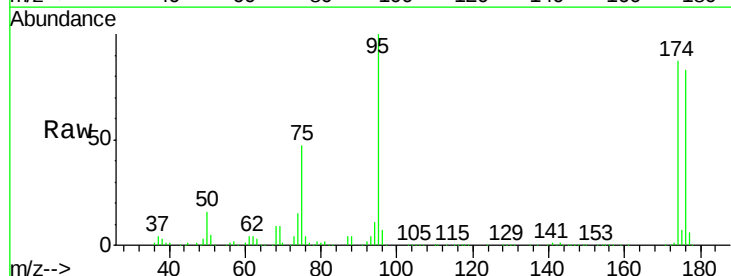
Tgt Ion: 95 Resp: 181637

Ion Ratio Lower Upper

95 100

174 93.0 0.0 182.8

176 90.0 0.0 178.0



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

200000

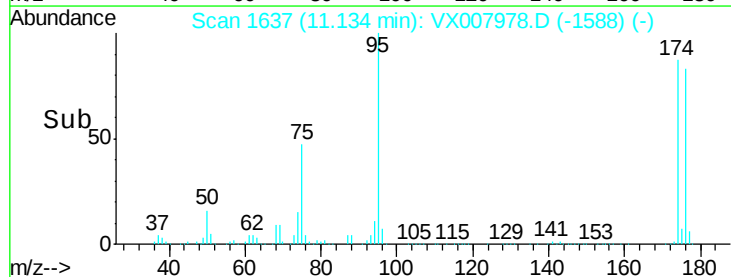
150000

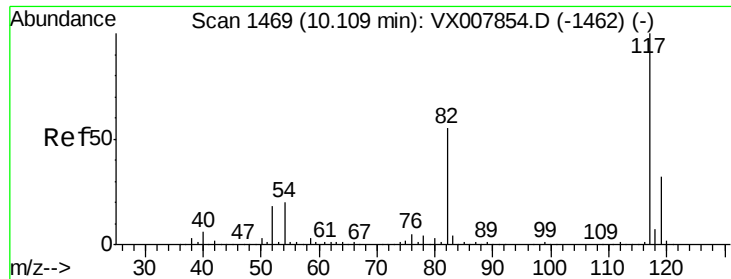
100000

50000

0

Time-->

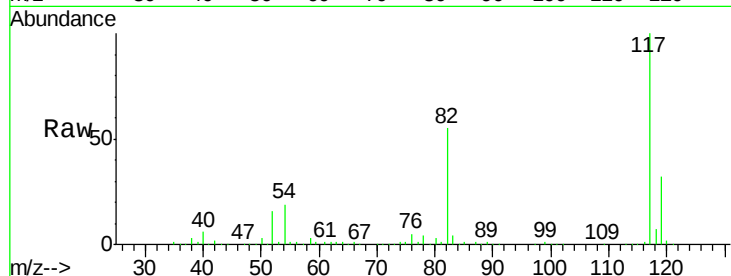




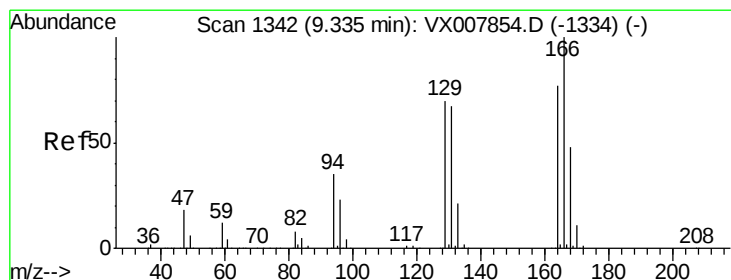
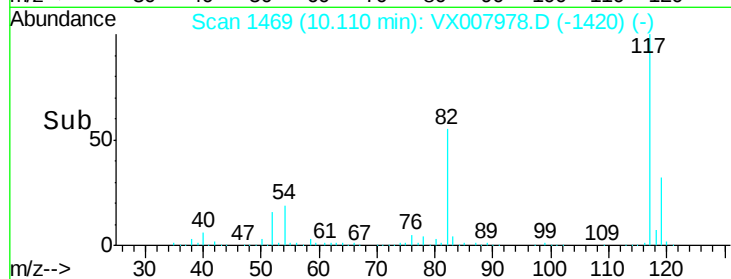
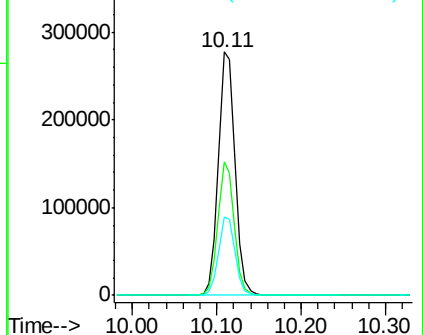
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007978.D
Acq: 11 Mar 2019 18:57

Instrument :
MSVOA_X
ClientSampleId :
DUP01-20190305DL

Tot Ion:117 Resp: 383449
Ion Ratio Lower Upper
117 100
82 54.7 44.3 66.5
119 32.2 25.3 37.9



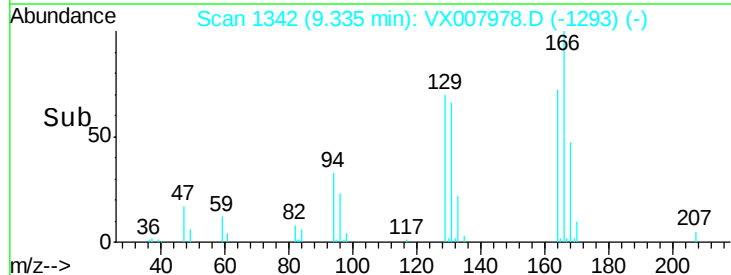
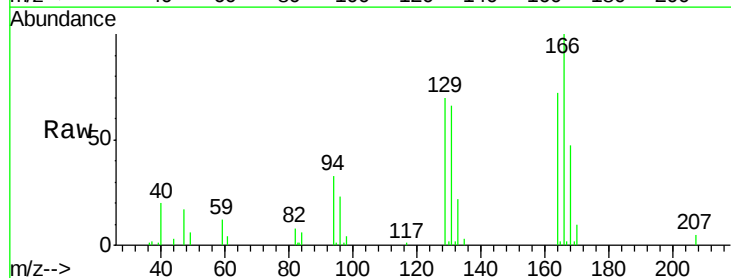
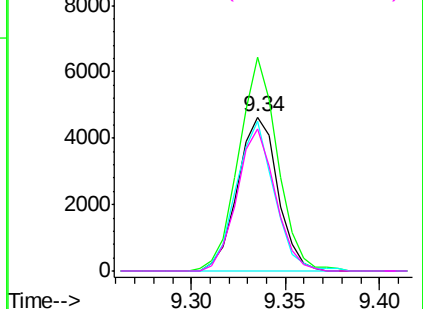
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

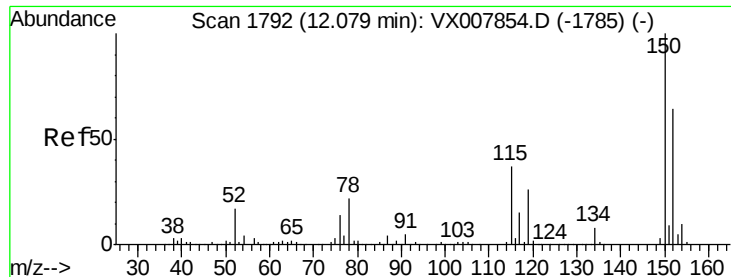


#64
Tetrachloroethene
Concen: 2.154 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007978.D
Acq: 11 Mar 2019 18:57

Tgt Ion:164 Resp: 6843
Ion Ratio Lower Upper
164 100
166 138.6 103.4 155.0
129 96.9 72.2 108.4
131 92.1 69.4 104.2

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX007978.D

Acq: 11 Mar 2019 18:57

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20190305DL

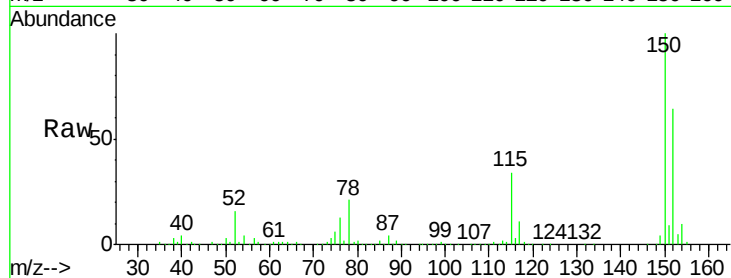
Tot Ion:152 Resp: 187897

Ion Ratio Lower Upper

152 100

115 54.4 38.6 115.7

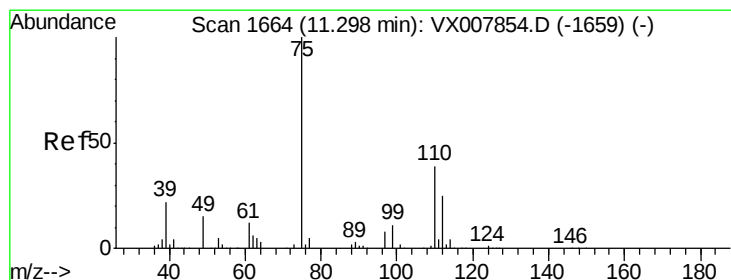
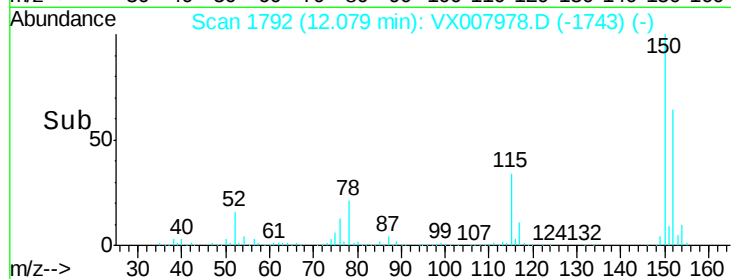
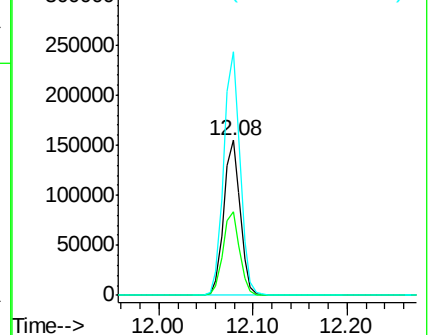
150 156.6 0.0 348.4



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: 20.986 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007978.D

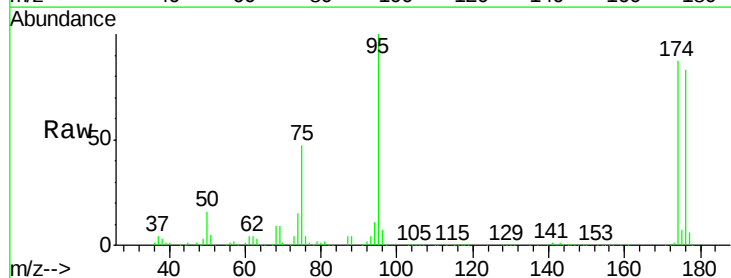
Acq: 11 Mar 2019 18:57

Tgt Ion: 75 Resp: 82745

Ion Ratio Lower Upper

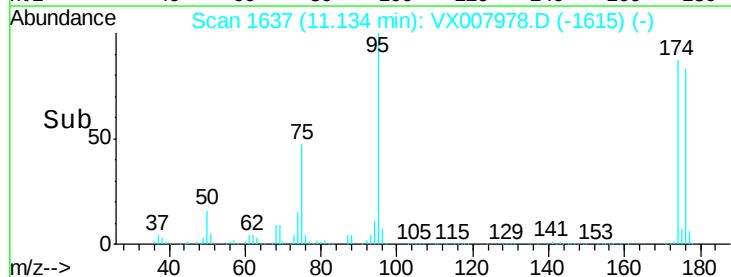
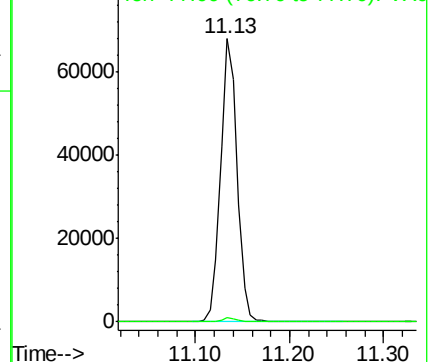
75 100

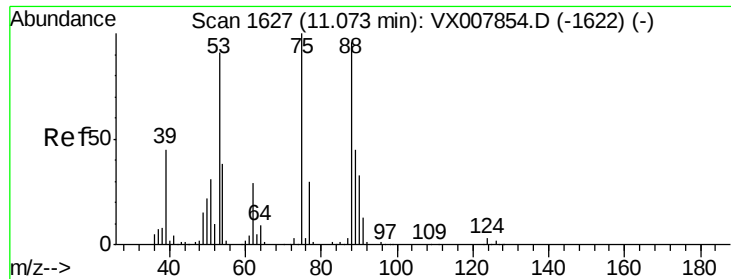
77 1.3 18.9 56.7#



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: 67.082 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007978.D

Acq: 11 Mar 2019 18:57

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20190305DL

Tot Ion: 75 Resp: 82745

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#

