

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006624.D
 Acq On : 19 Dec 2018 03:52
 Operator : JC/MD
 Sample : J6408-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20181208

Quant Time: Dec 19 06:07:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	628274	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1002328	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	922046	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	438528	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	347555	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
35) Dibromofluoromethane	5.51	113	300051	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	8.71	98	1200746	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
62) 4-Bromofluorobenzene	11.13	95	432882	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	

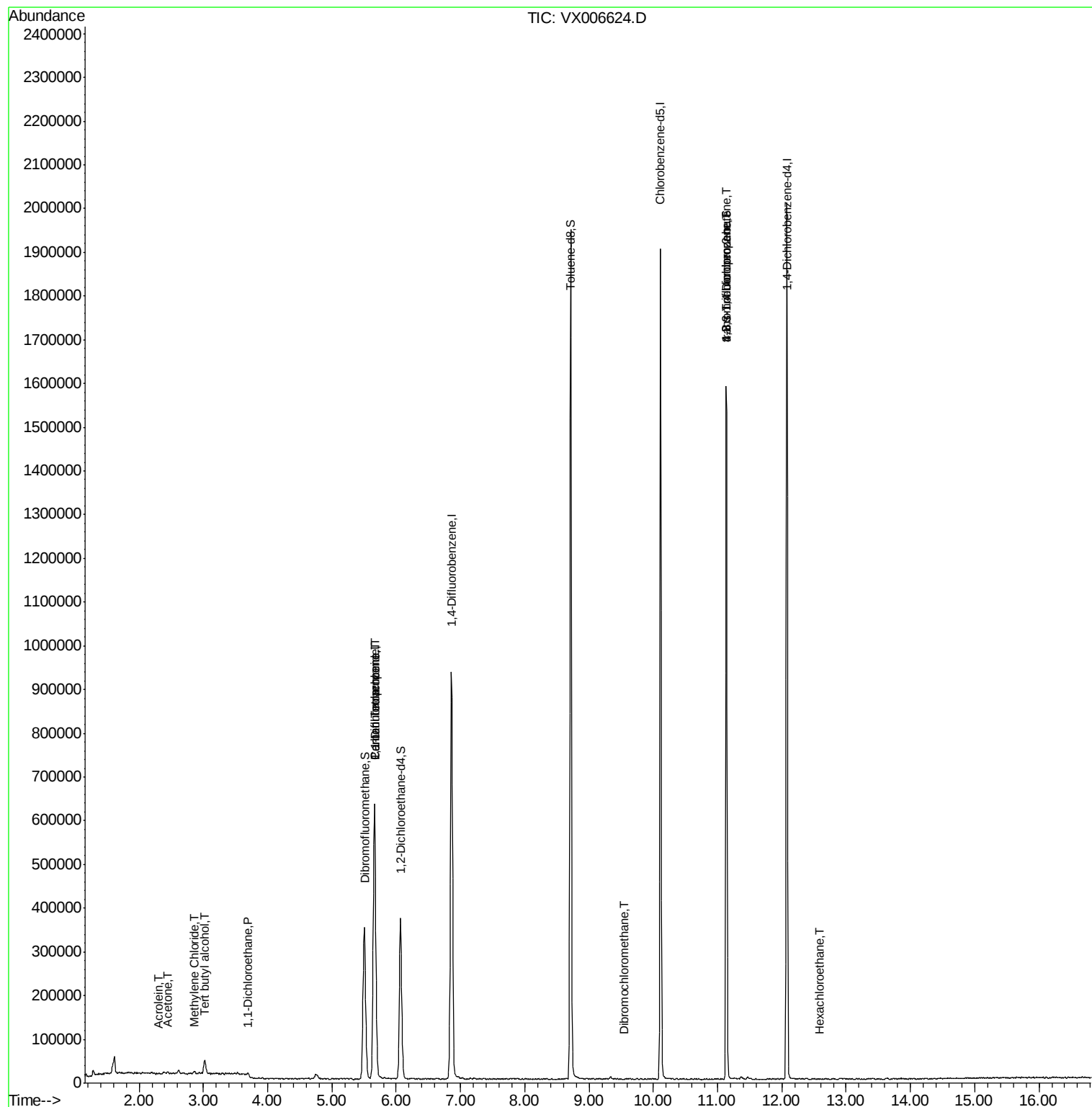
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	282	Below Cal	#	25
11) Tert butyl alcohol	3.03	59	21096	13.960	ug/l #	73
13) Acrolein	2.29	56	568	0.557	ug/l #	13
16) Acetone	2.45	43	5893	1.894	ug/l	100
20) Methylene Chloride	2.87	84	2856	0.444	ug/l #	59
24) 1,1-Dichloroethane	3.70	63	5033	0.488	ug/l	99
28) Bromochloromethane	5.02	49	434	Below Cal	#	3
36) 1,1-Dichloropropene	5.66	75	43074	5.189	ug/l #	48
38) Carbon Tetrachloride	5.67	117	59144	7.331	ug/l #	17
49) 1,4-Dioxane	7.78	88	525	Below Cal	#	46
60) Dibromochloromethane	9.54	129	80	2.335	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	202356	26.328	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	202356	73.400	ug/l #	15
90) Hexachloroethane	12.59	117	98	3.315	ug/l	56

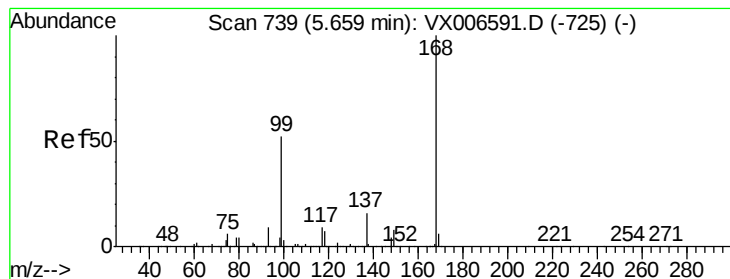
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

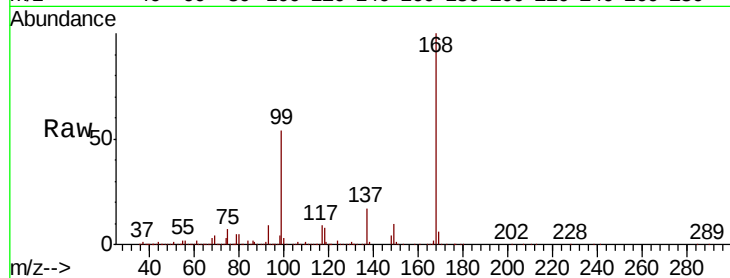
DUP01-20181208

Tot Ion:168 Resp: 628274

Ion Ratio Lower Upper

168 100

99 54.4 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

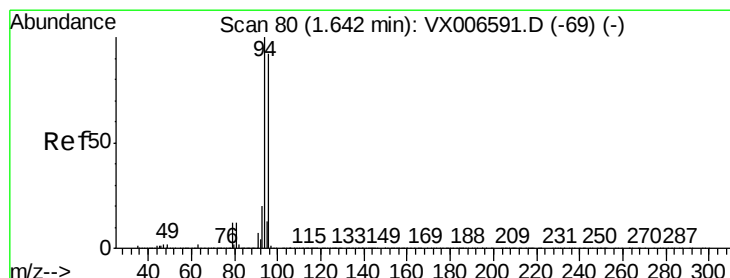
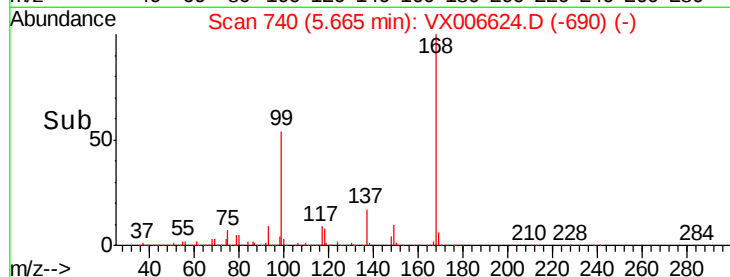
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006624.D

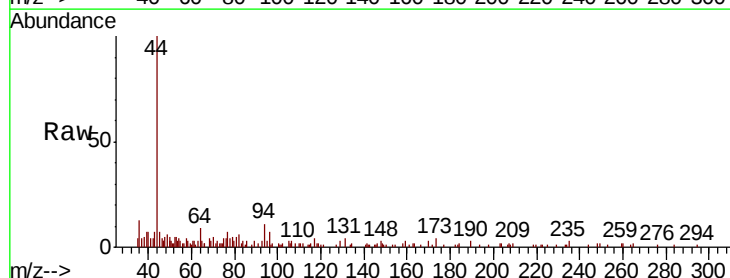
Acq: 19 Dec 2018 03:52

Tgt Ion: 94 Resp: 282

Ion Ratio Lower Upper

94 100

96 21.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

500

400

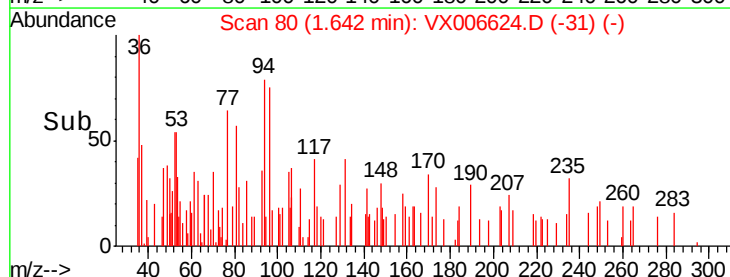
300

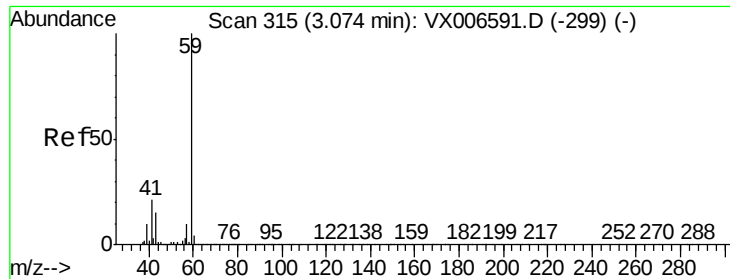
200

100

0

Time-->

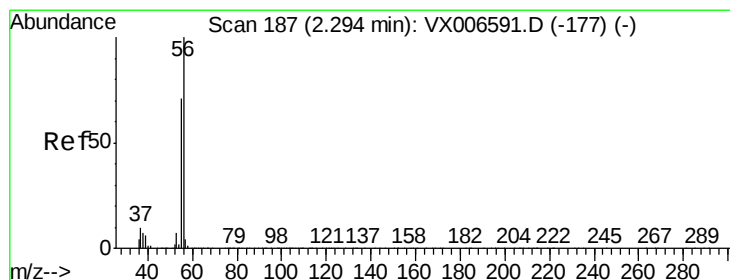
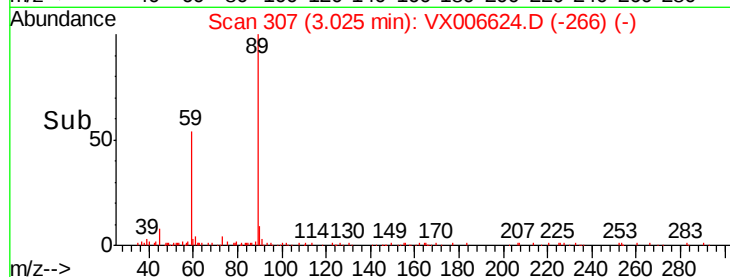
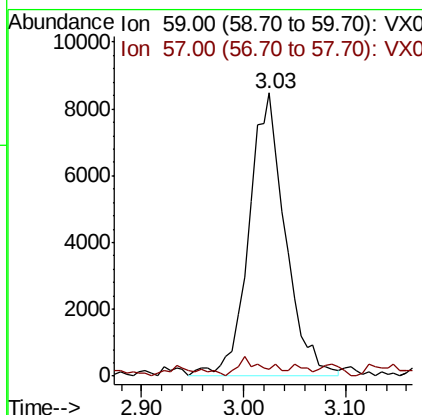
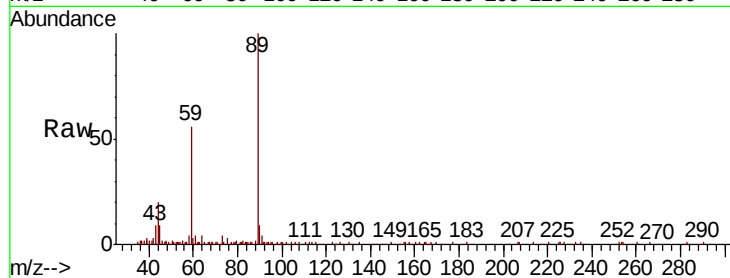




#11
Tert butyl alcohol
Concen: 13.960 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006624.D
Acq: 19 Dec 2018 03:52

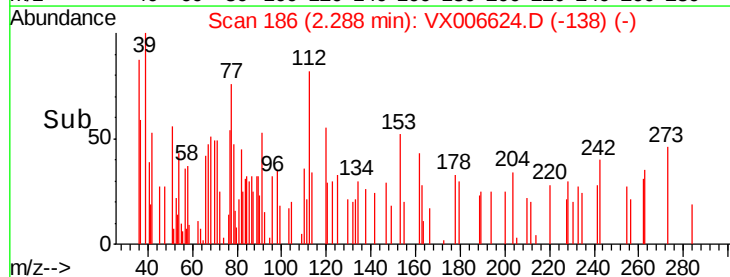
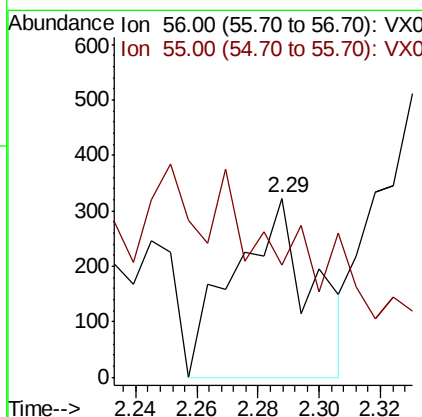
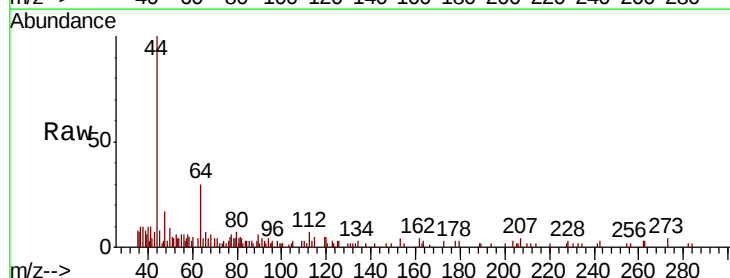
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20181208

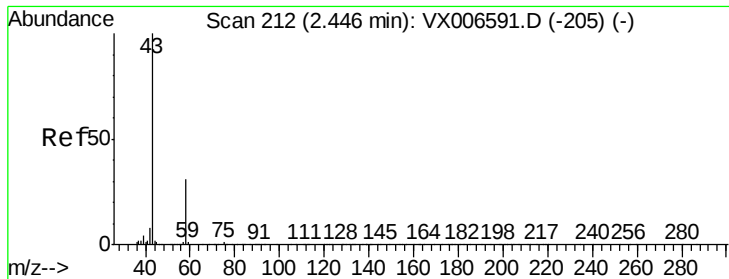
Tot Ion: 59 Resp: 21096
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.557 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX006624.D
Acq: 19 Dec 2018 03:52

Tgt Ion: 56 Resp: 568
Ion Ratio Lower Upper
56 100
55 0.0 57.8 86.6#





#16

Acetone

Concen: 1.894 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

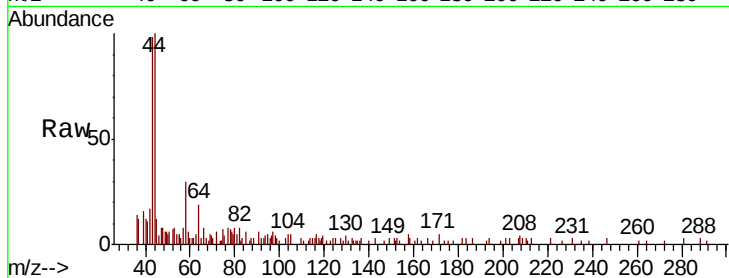
DUP01-20181208

Tot Ion: 43 Resp: 5893

Ion Ratio Lower Upper

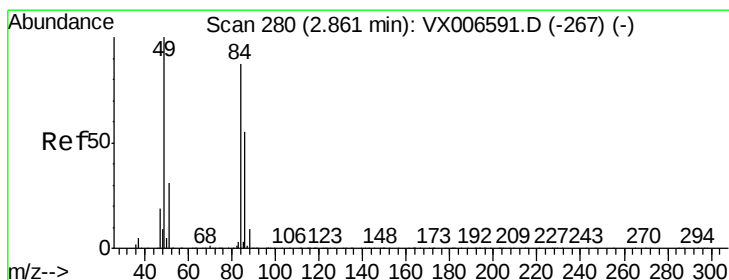
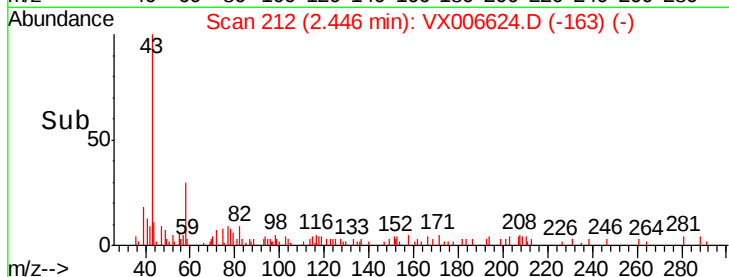
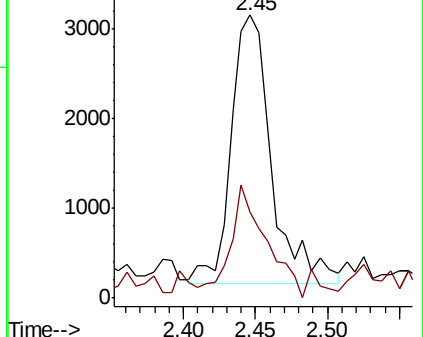
43 100

58 29.9 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.444 ug/l

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

Tgt Ion: 84 Resp: 2856

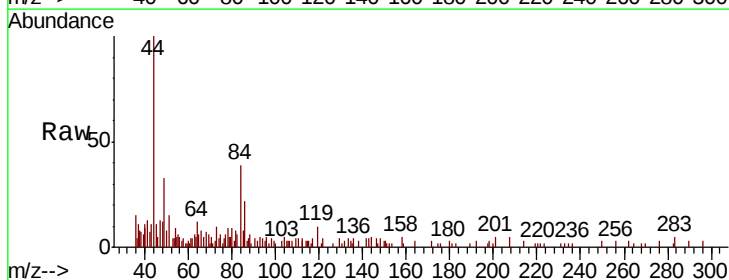
Ion Ratio Lower Upper

84 100

49 61.1 102.2 153.4#

51 29.2 31.1 46.7#

86 47.8 53.7 80.5#

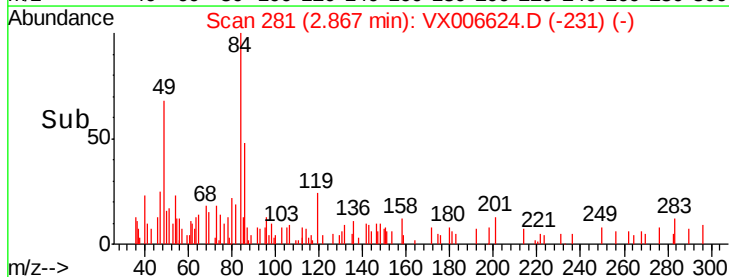
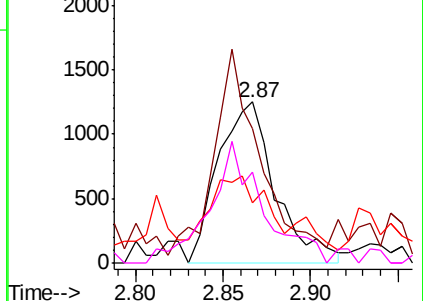


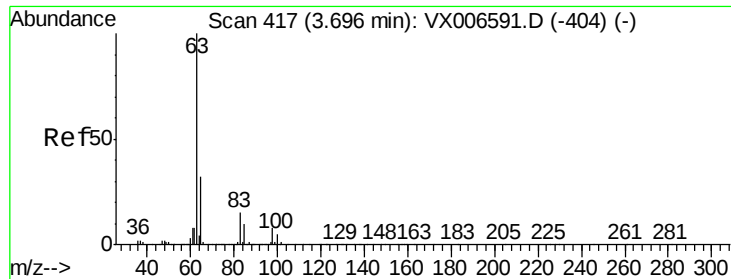
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#24

1,1-Dichloroethane

Concen: 0.488 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20181208

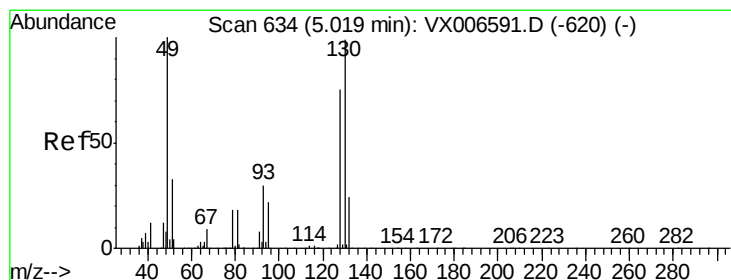
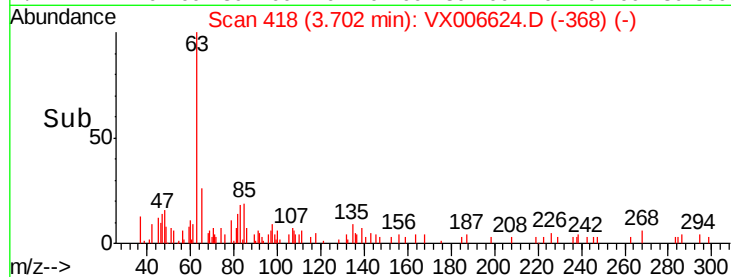
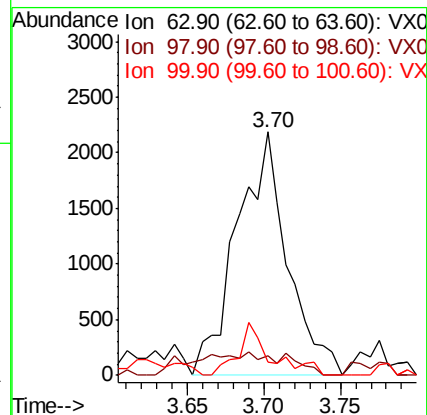
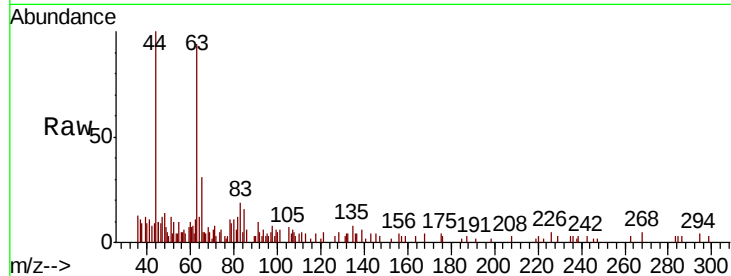
Tot Ion: 63 Resp: 5033

Ion Ratio Lower Upper

63 100

98 8.2 3.8 11.4

100 5.3 2.5 7.4



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.00 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

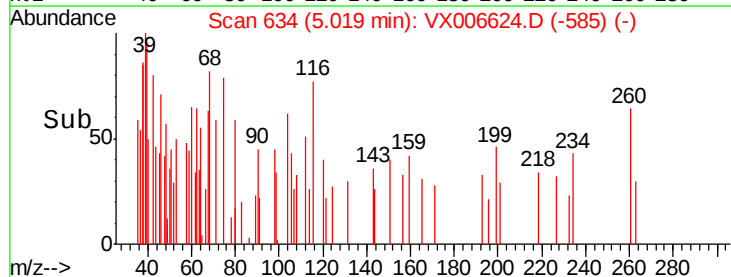
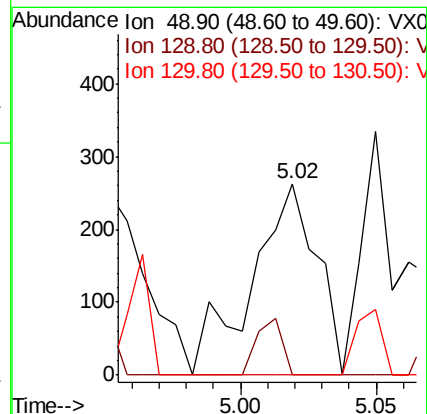
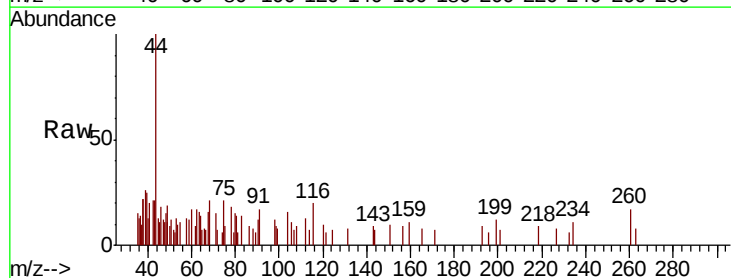
Tgt Ion: 49 Resp: 434

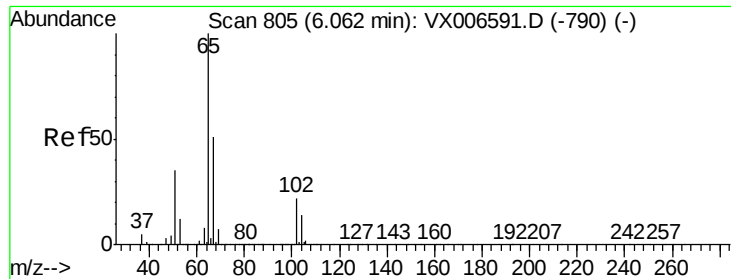
Ion Ratio Lower Upper

49 100

129 11.8 0.0 5.0#

130 0.0 78.3 117.5#





#33

1,2-Dichloroethane-d4

Concen: 51.328 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

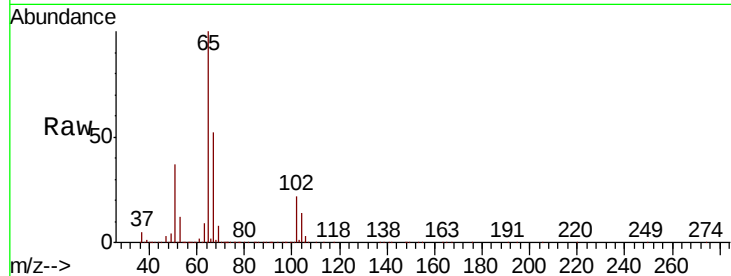
DUP01-20181208

Tot Ion: 65 Resp: 347555

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

150000

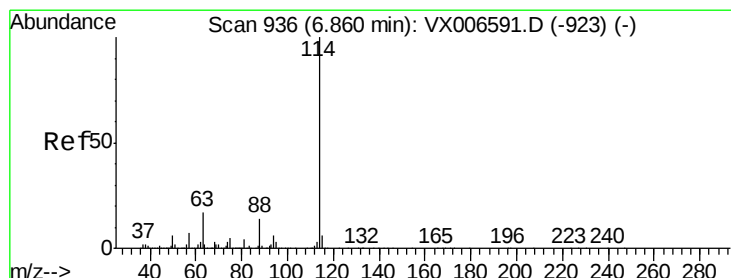
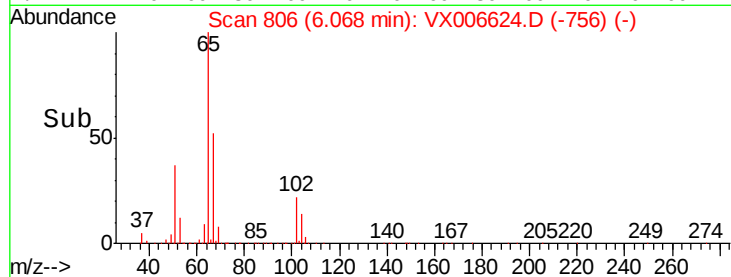
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

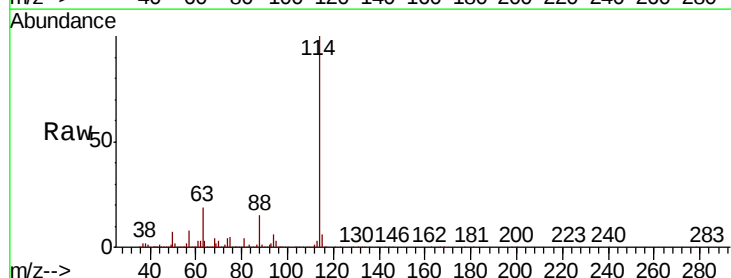
Tgt Ion: 114 Resp: 1002328

Ion Ratio Lower Upper

114 100

63 19.1 0.0 36.6

88 15.2 0.0 29.0



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

6.86

600000

500000

400000

300000

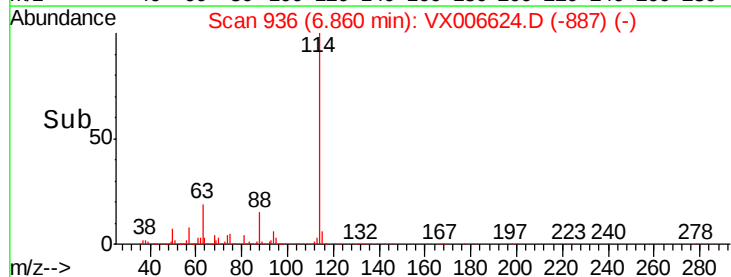
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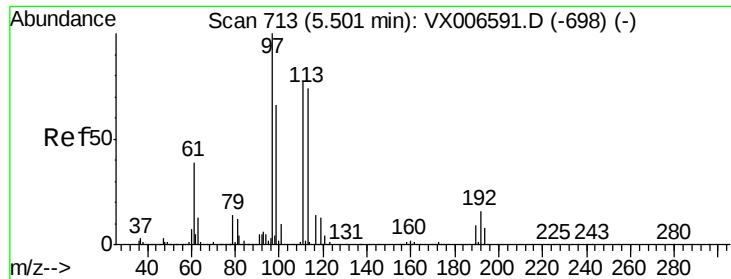
100000

0

Time-->

6.80 6.90





#35

Dibromofluoromethane

Concen: 47.338 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20181208

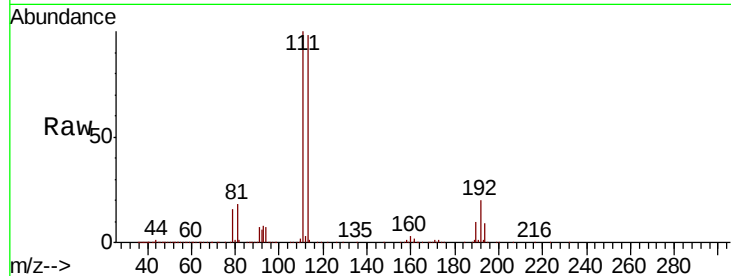
Tot Ion:113 Resp: 300051

Ion Ratio Lower Upper

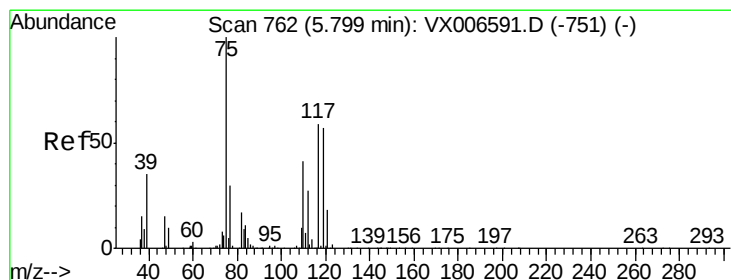
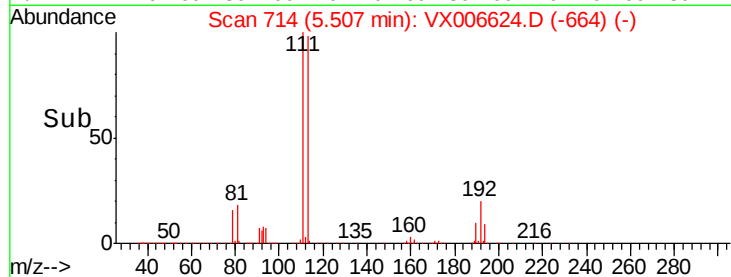
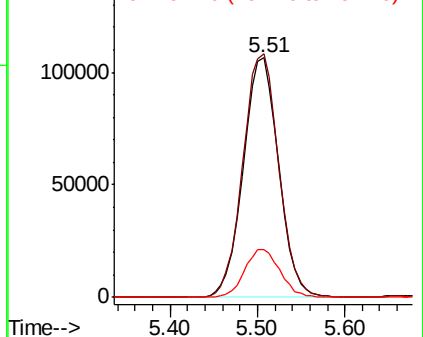
113 100

111 102.9 81.1 121.7

192 20.0 18.2 27.2



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



#36

1,1-Dichloropropene

Concen: 5.189 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

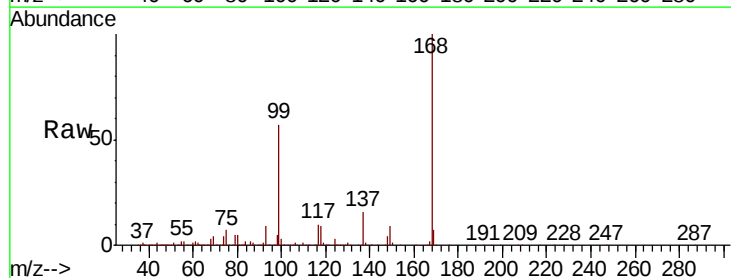
Tgt Ion: 75 Resp: 43074

Ion Ratio Lower Upper

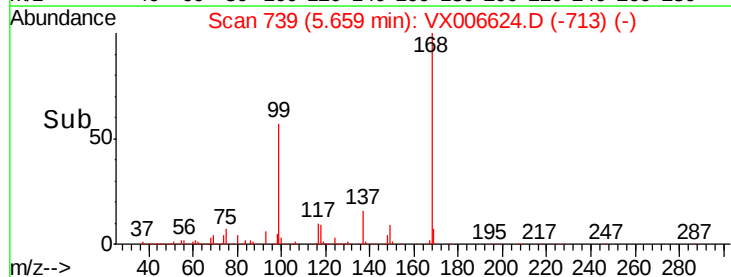
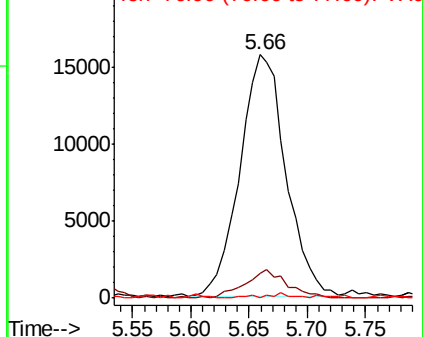
75 100

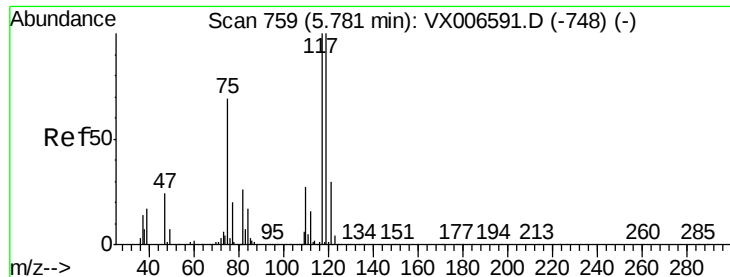
110 10.7 20.4 61.3#

77 0.4 24.9 37.3#



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: 7.331 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

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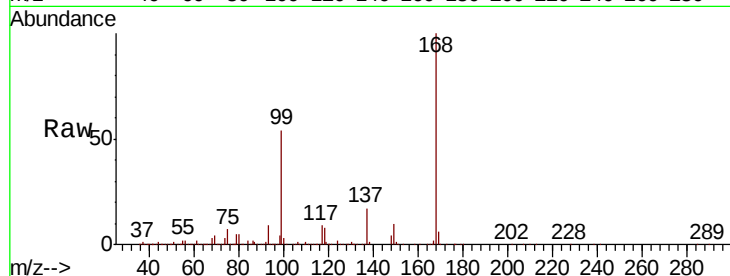
Tot Ion:117 Resp: 59144

Ion Ratio Lower Upper

117 100

119 5.3 75.8 113.8#

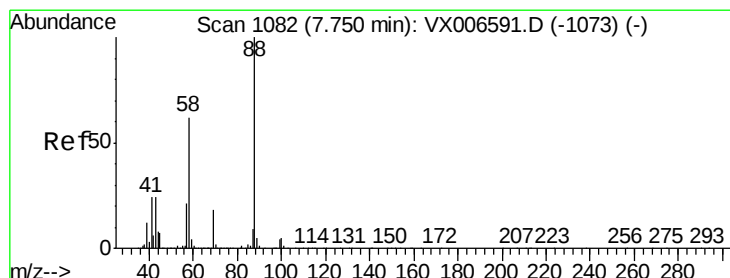
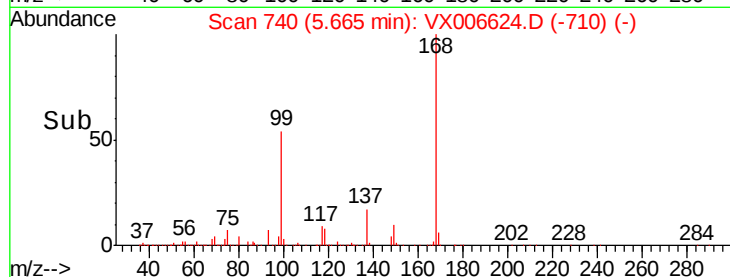
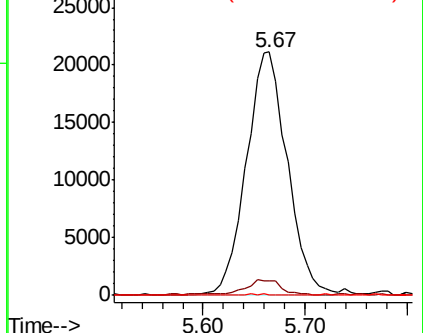
121 0.3 24.6 37.0#



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: Below Cal

RT: 7.78 min Scan# 1087

Delta R.T. 0.03 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

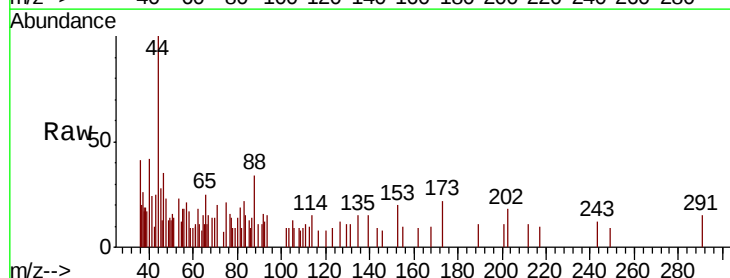
Tgt Ion: 88 Resp: 525

Ion Ratio Lower Upper

88 100

43 51.4 23.2 34.8#

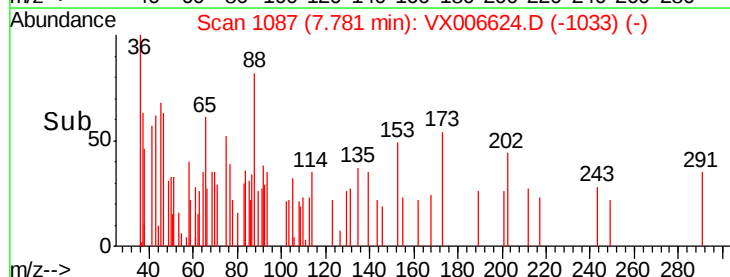
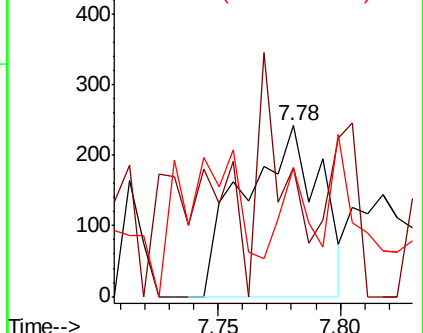
58 17.5 51.4 77.0#

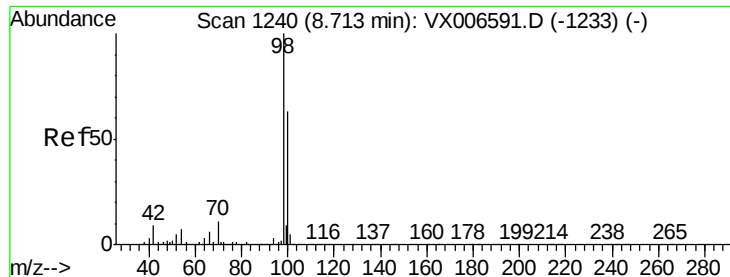


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.248 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

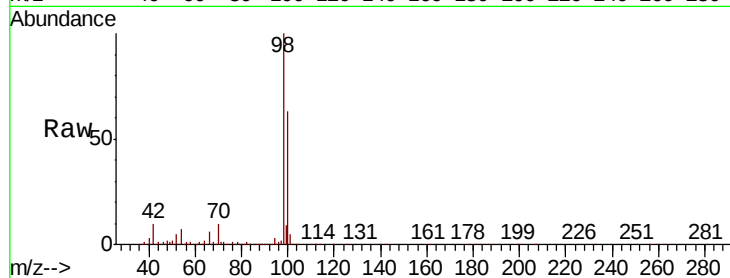
DUP01-20181208

Tot Ion: 98 Resp: 1200746

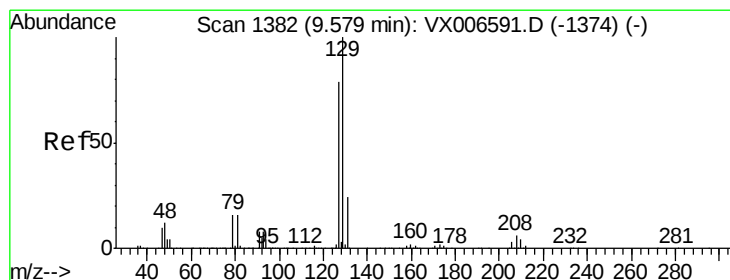
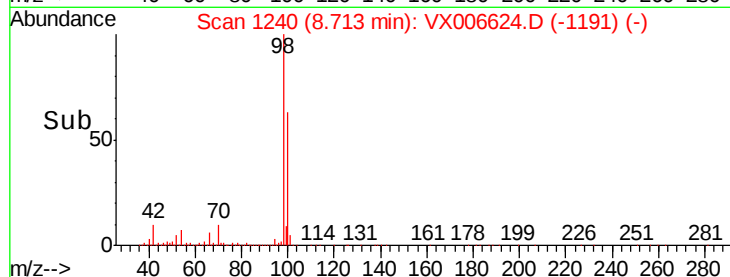
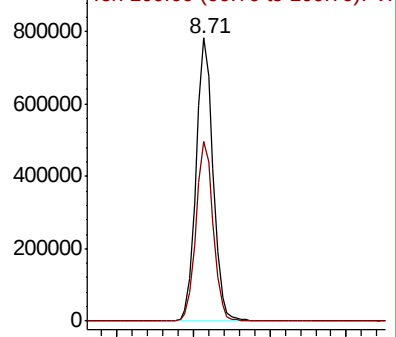
Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX006624.D (-1191) (-)



#60

Dibromochloromethane

Concen: 2.335 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. -0.04 min

Lab File: VX006624.D

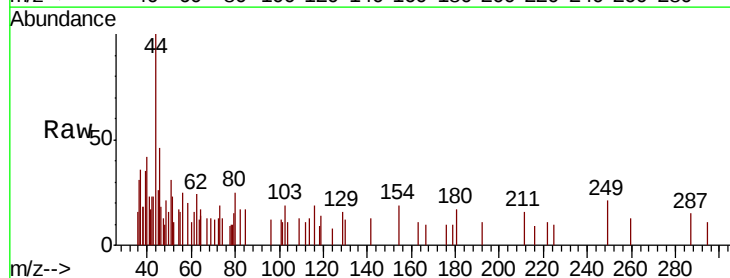
Acq: 19 Dec 2018 03:52

Tgt Ion: 129 Resp: 80

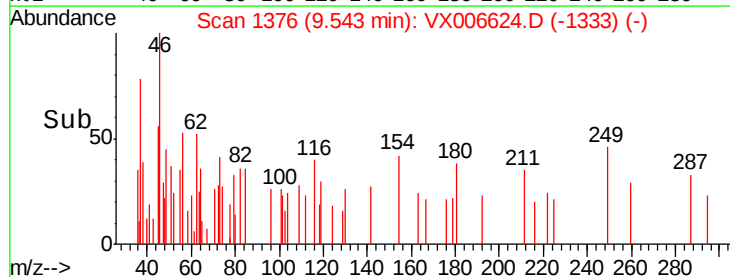
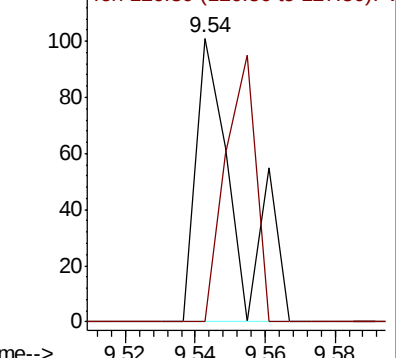
Ion Ratio Lower Upper

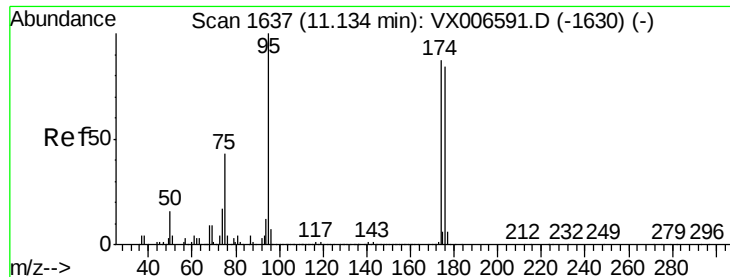
129 100

127 71.3 38.6 115.8



Abundance Ion 128.80 (128.50 to 129.50): VX006624.D (-1333) (-)





#62

4-Bromofluorobenzene

Concen: 49.462 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20181208

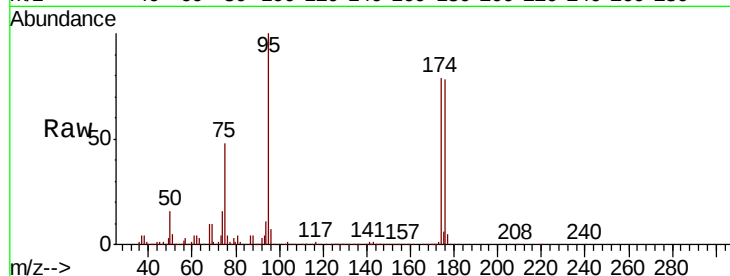
Tot Ion: 95 Resp: 432882

Ion Ratio Lower Upper

95 100

174 85.5 0.0 187.0

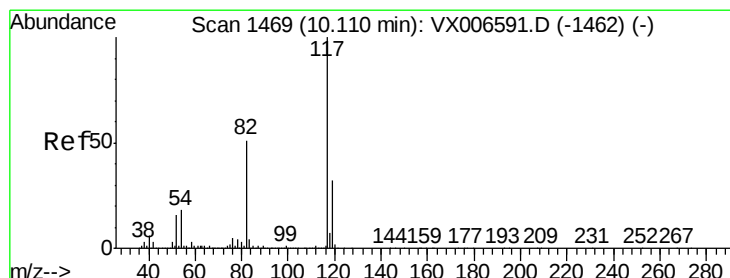
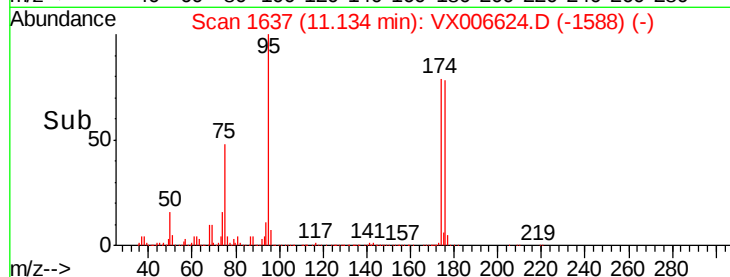
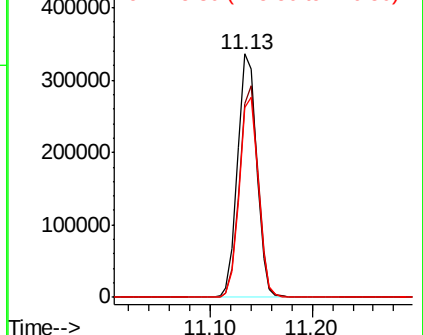
176 82.2 0.0 181.8



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

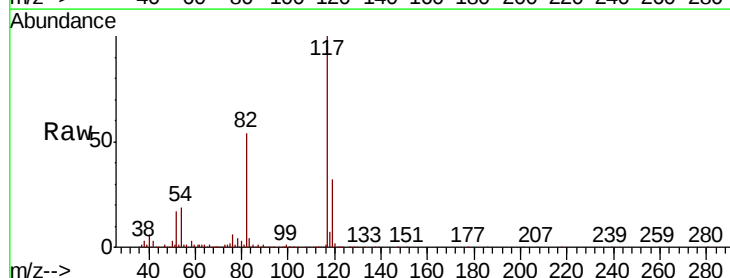
Tgt Ion: 117 Resp: 922046

Ion Ratio Lower Upper

117 100

82 54.2 39.6 59.4

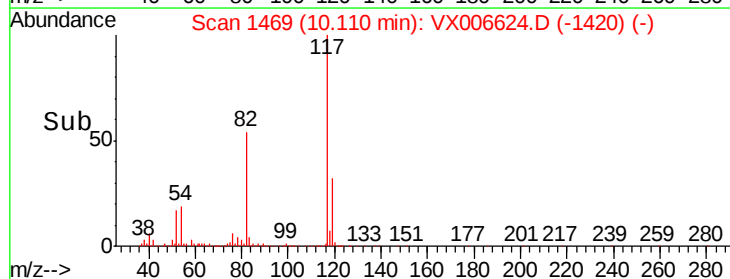
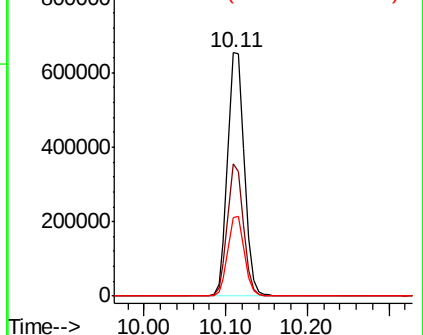
119 32.2 26.3 39.5

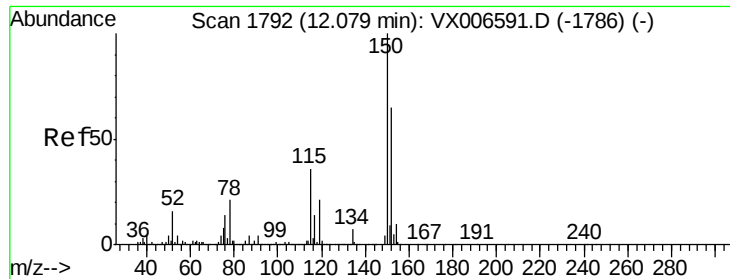


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006624.D

Acq: 19 Dec 2018 03:52

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20181208

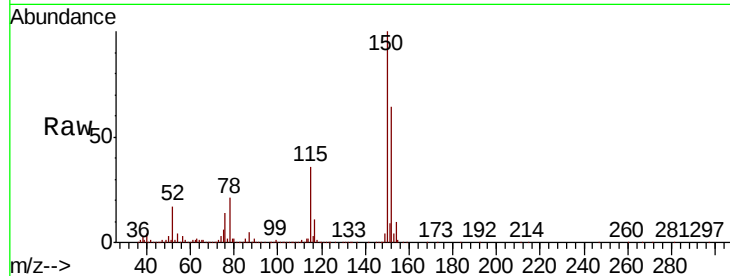
Tot Ion:152 Resp: 438528

Ion Ratio Lower Upper

152 100

115 56.9 39.0 116.9

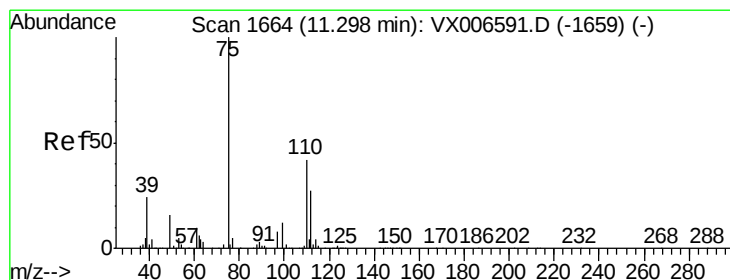
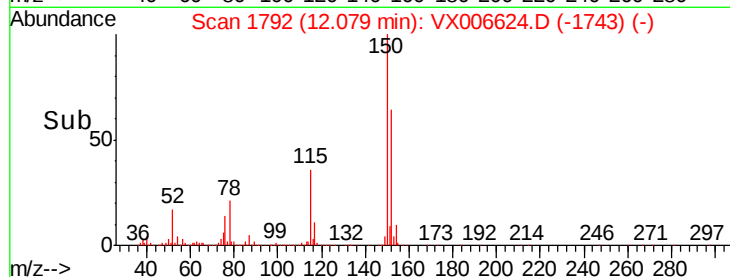
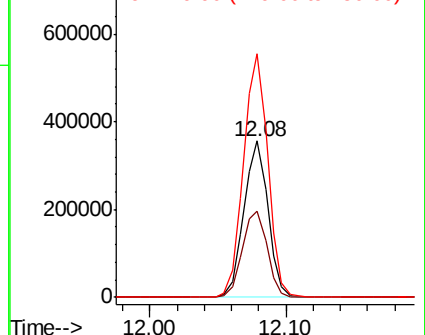
150 157.9 0.0 345.8



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: 26.328 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006624.D

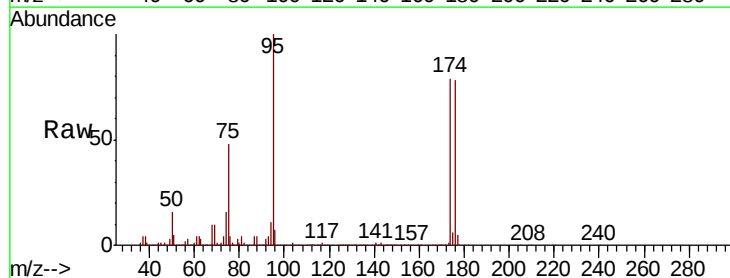
Acq: 19 Dec 2018 03:52

Tgt Ion: 75 Resp: 202356

Ion Ratio Lower Upper

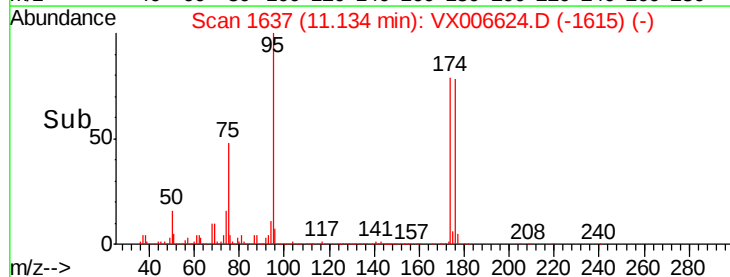
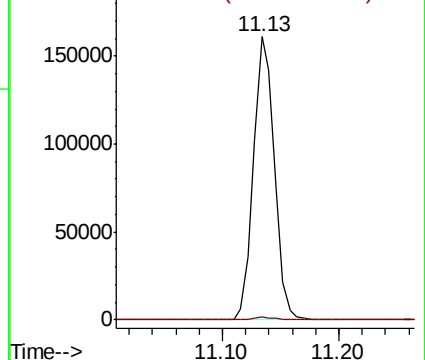
75 100

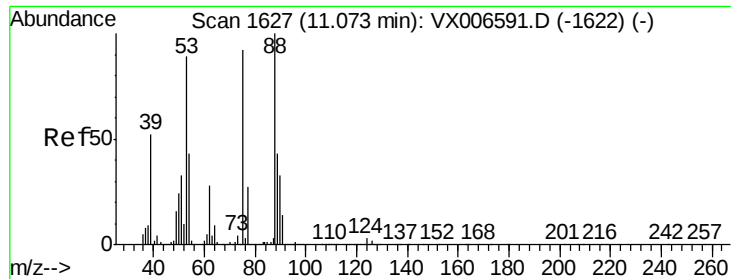
77 1.5 19.9 59.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

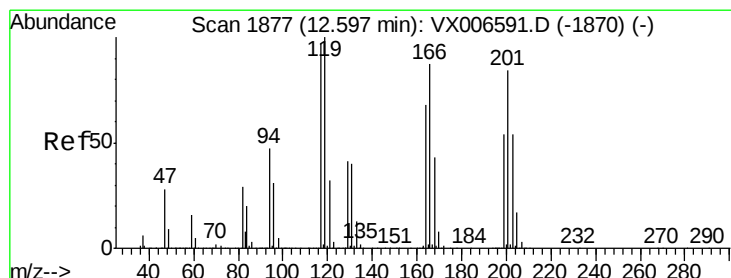
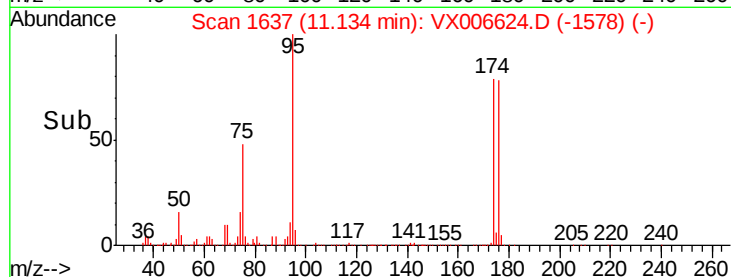
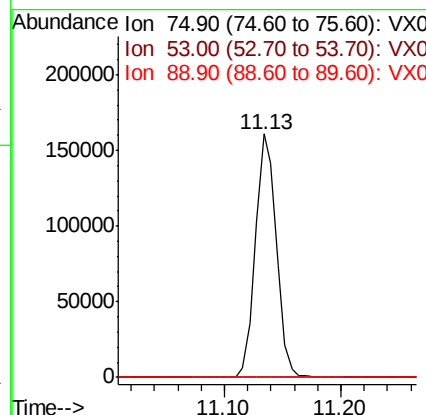
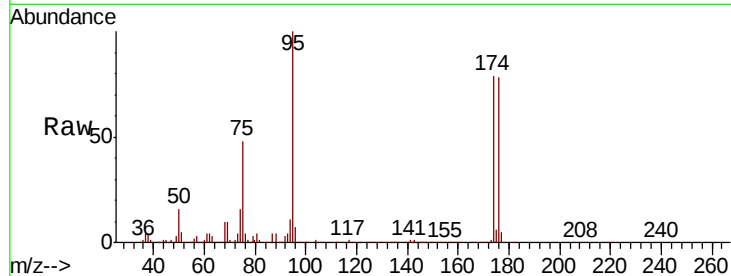




#81
trans-1,4-Dichloro-2-butene
Concen: 73.400 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006624.D
Acq: 19 Dec 2018 03:52

Instrument :
MSVOA_X
ClientSampleId :
DUP01-20181208

Tot Ion: 75 Resp: 202356
Ion Ratio Lower Upper
75 100
53 0.3 64.4 96.6#
89 0.1 44.2 66.4#



#90
Hexachloroethane
Concen: 3.315 ug/l
RT: 12.59 min Scan# 1876
Delta R.T. -0.01 min
Lab File: VX006624.D
Acq: 19 Dec 2018 03:52

Tgt Ion: 117 Resp: 98
Ion Ratio Lower Upper
117 100
201 48.0 44.7 134.1

