

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072118\
 Data File : VX003583.D
 Acq On : 22 Jul 2018 05:01
 Operator : JC/SP
 Sample : J4050-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY030SW001-180717

Quant Time: Jul 23 03:50:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	265189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	426246	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	377459	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	210213	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	180441	57.48	ug/l	0.00
Spiked Amount			Recovery	=	114.96%	
35) Dibromofluoromethane	5.50	113	163845	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
50) Toluene-d8	8.72	98	566251	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
62) 4-Bromofluorobenzene	11.14	95	193403	43.43	ug/l	0.00
Spiked Amount			Recovery	=	86.86%	

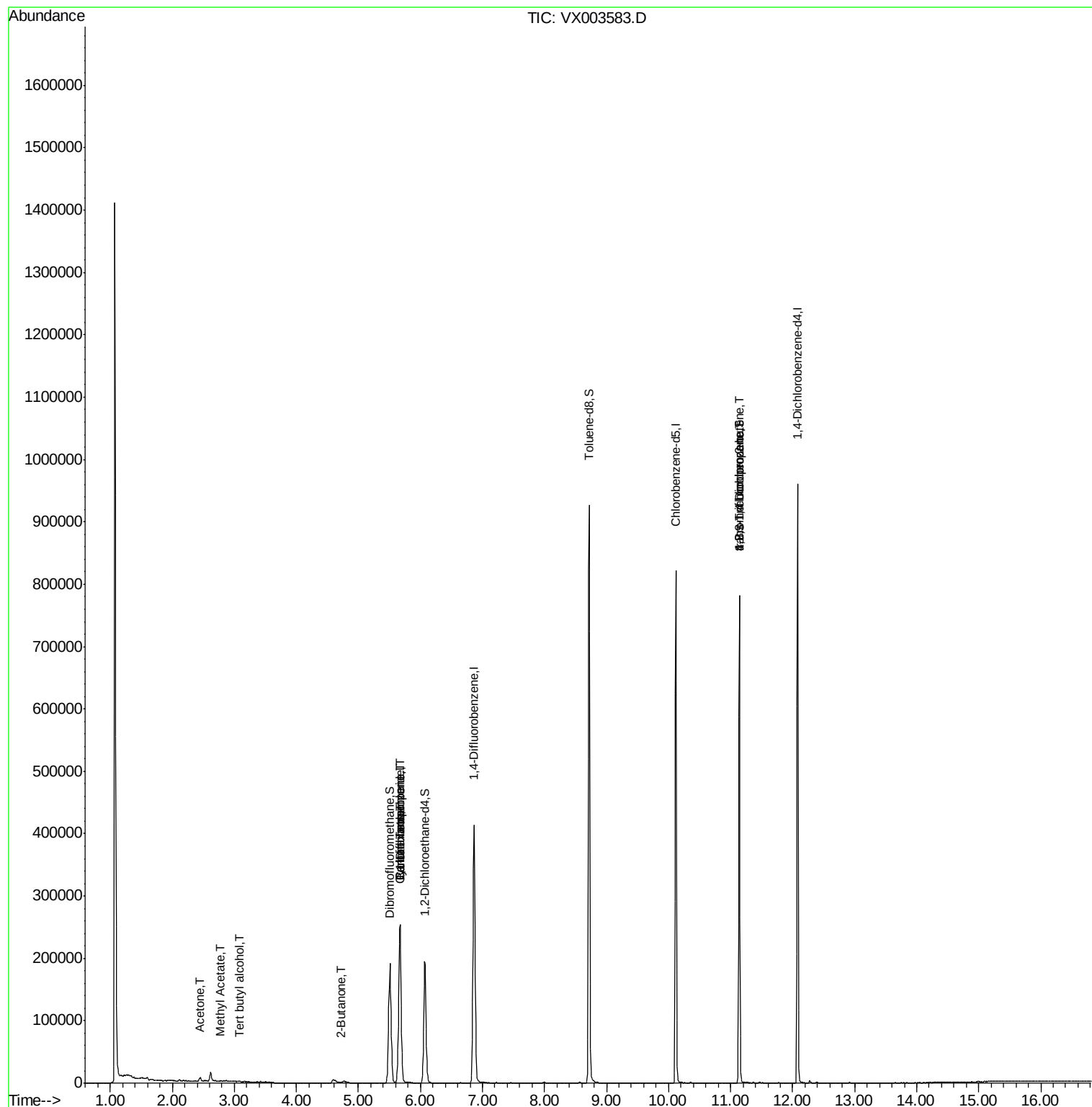
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	114	Below Cal	#	43
3) Chloromethane	1.32	50	455	Below Cal		96
5) Bromomethane	1.66	94	943	Below Cal	#	78
11) Tert butyl alcohol	3.07	59	443	0.71	ug/l #	73
16) Acetone	2.45	43	6817	5.75	ug/l	94
18) Methyl Acetate	2.78	43	903	0.24	ug/l #	86
20) Methylene Chloride	2.86	84	193	Below Cal	#	68
25) 2-Butanone	4.71	43	435	0.22	ug/l #	52
31) Cyclohexane	5.66	56	4329	0.92	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16894	3.67	ug/l #	49
38) Carbon Tetrachloride	5.67	117	22708	5.03	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	92614	24.52	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	92614	68.72	ug/l #	6

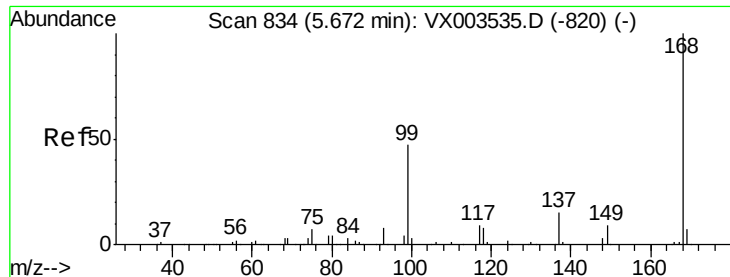
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

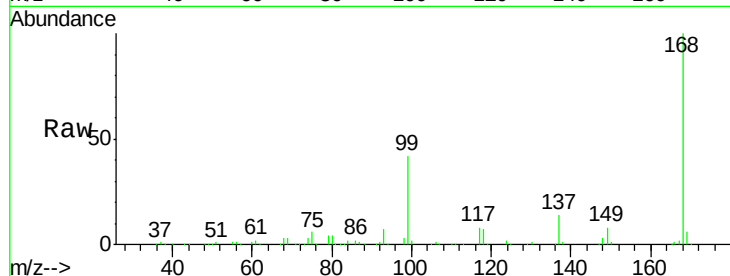
KY030SW001-180717

Tot Ion:168 Resp: 265189

Ion Ratio Lower Upper

168 100

99 42.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

40000

20000

0

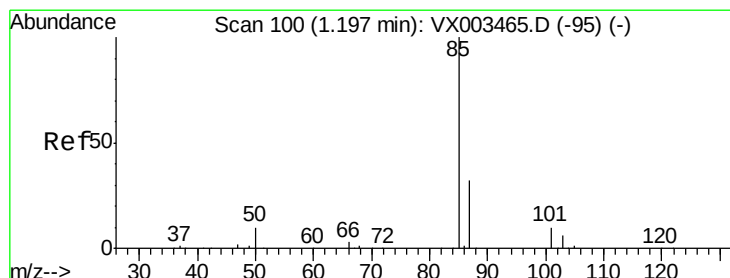
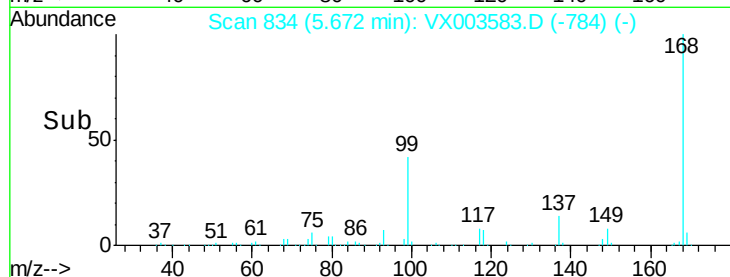
5.50

5.60

5.70

5.80

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003583.D

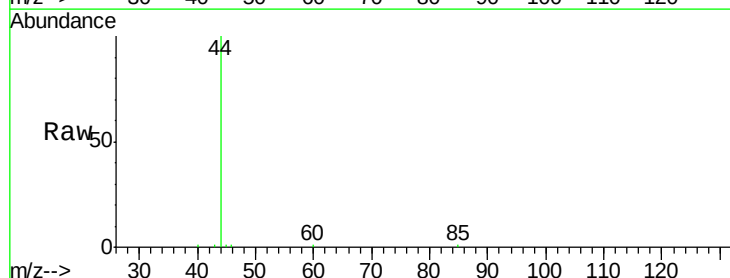
Acq: 22 Jul 2018 05:01

Tgt Ion: 85 Resp: 114

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

100

50

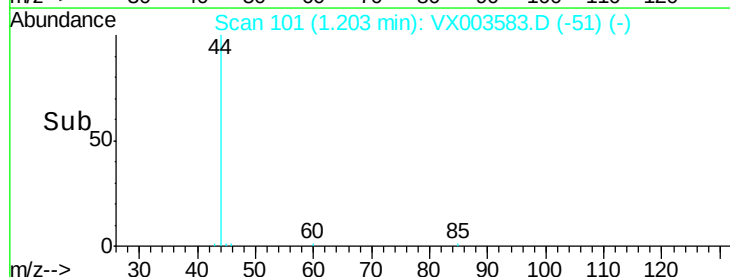
0

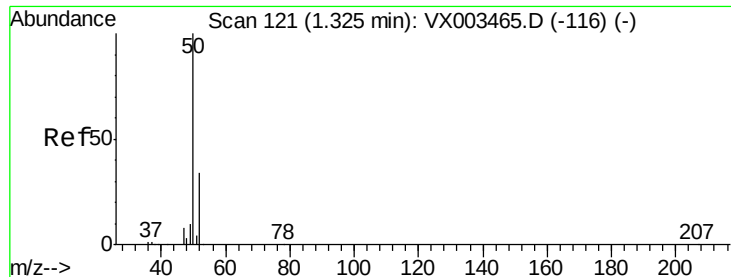
1.18

1.20

1.22

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

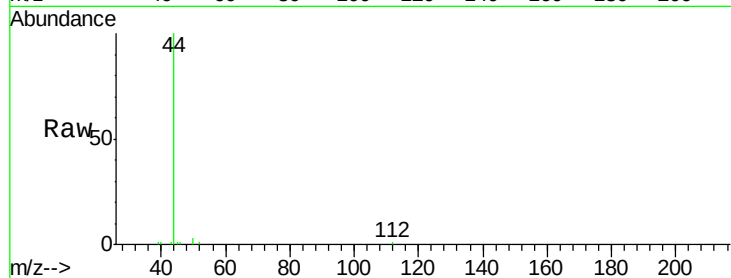
KY030SW001-180717

Tot Ion: 50 Resp: 455

Ion Ratio Lower Upper

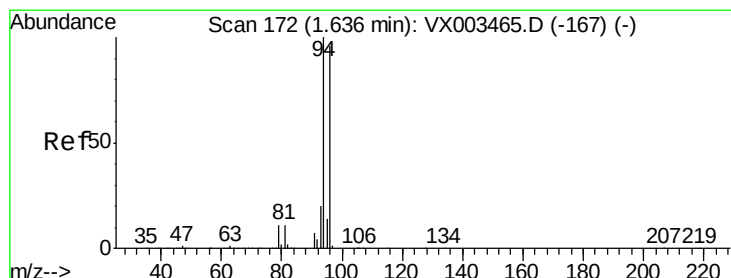
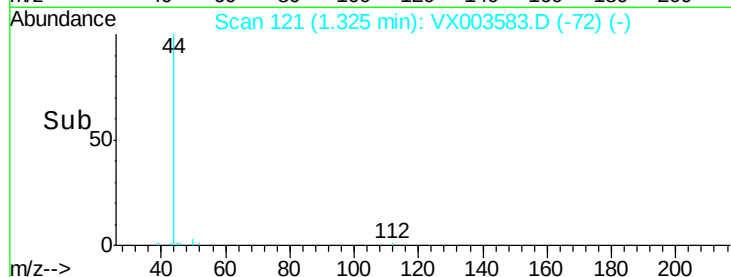
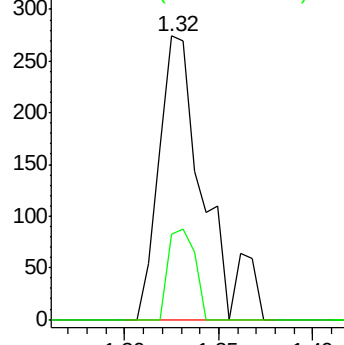
50 100

52 29.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003583.D

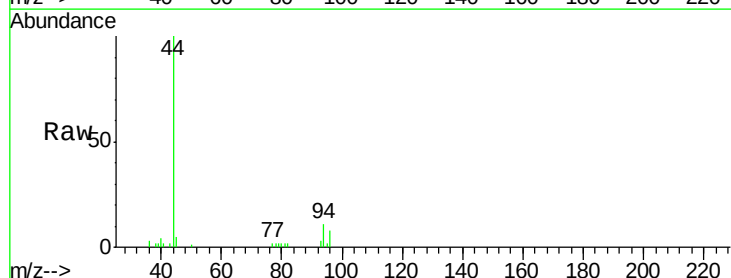
Acq: 22 Jul 2018 05:01

Tgt Ion: 94 Resp: 943

Ion Ratio Lower Upper

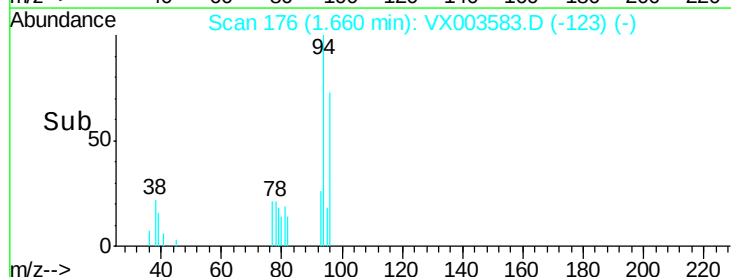
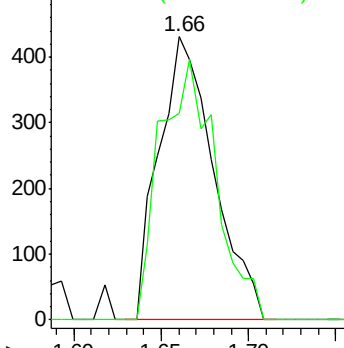
94 100

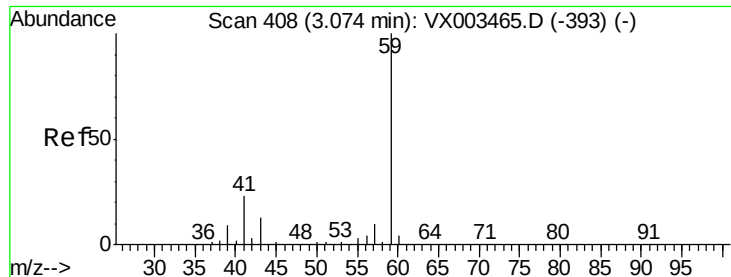
96 72.9 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



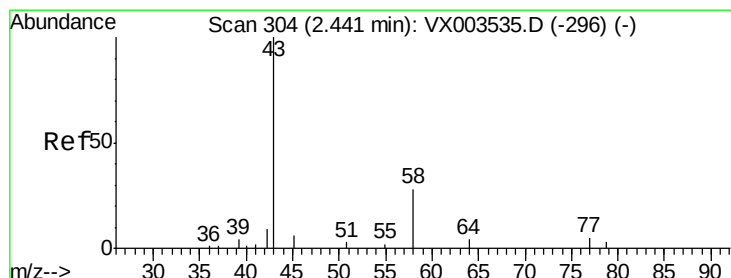
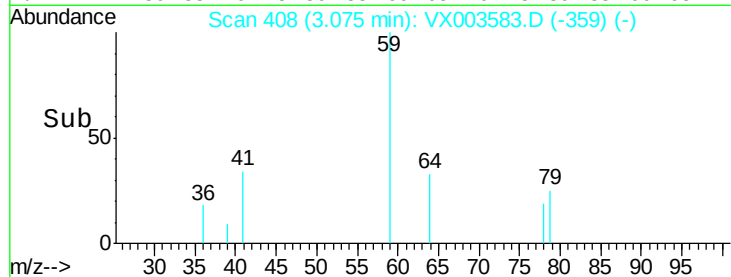
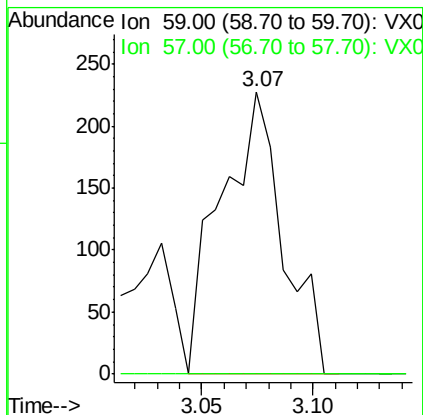
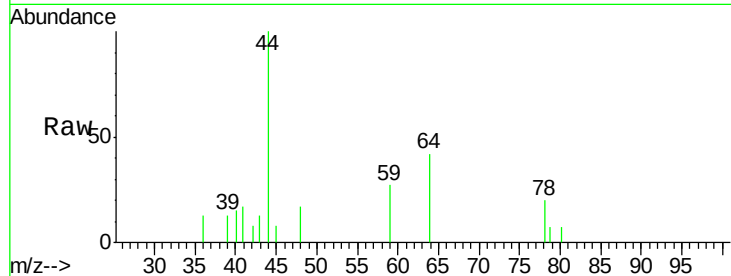


#11

Tert butyl alcohol
 Concen: 0.71 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. 0.00 min
 Lab File: VX003583.D
 Acq: 22 Jul 2018 05:01

Instrument :
 MSVOA_X
 ClientSampleId :
 KY030SW001-180717

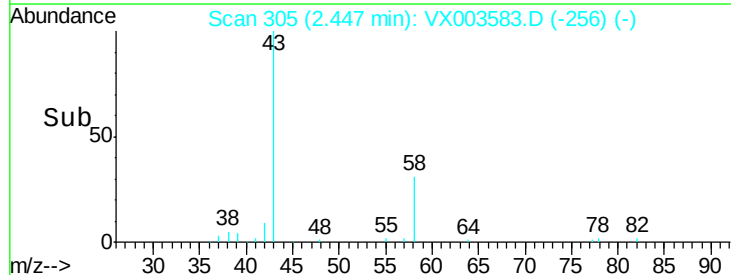
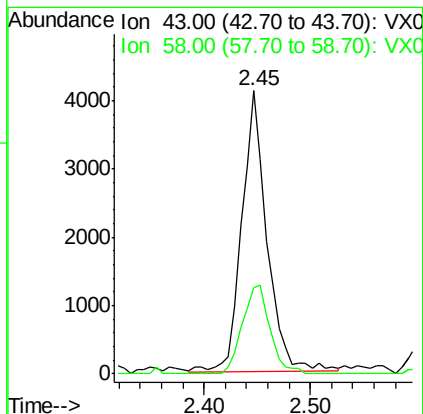
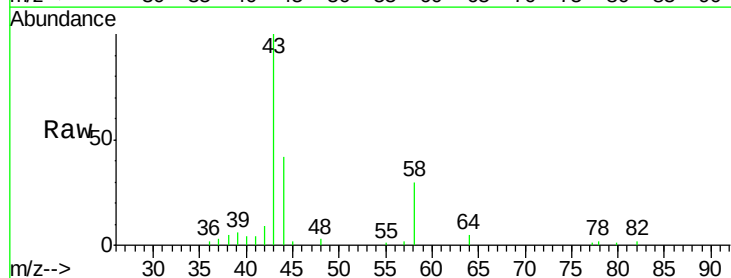
Tot Ion: 59 Resp: 443
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

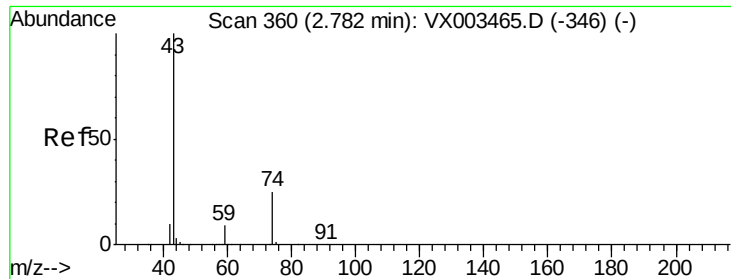


#16

Acetone
 Concen: 5.75 ug/l
 RT: 2.45 min Scan# 305
 Delta R.T. 0.00 min
 Lab File: VX003583.D
 Acq: 22 Jul 2018 05:01

Tgt Ion: 43 Resp: 6817
 Ion Ratio Lower Upper
 43 100
 58 30.8 22.1 33.1

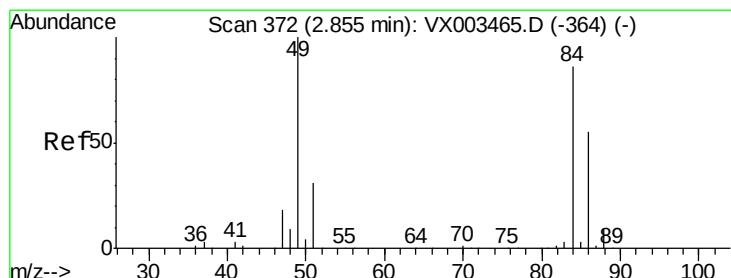
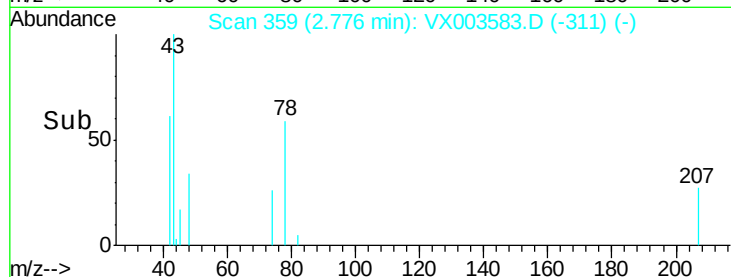
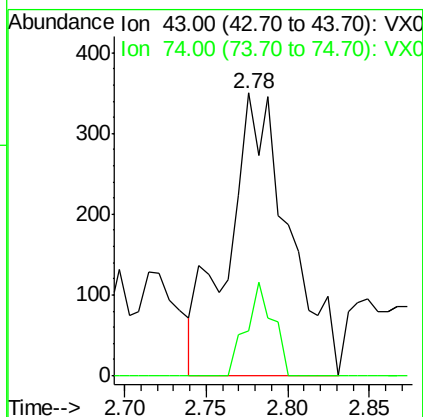
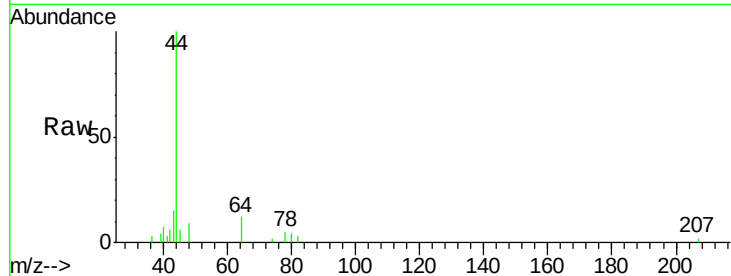




#18
Methyl Acetate
Concen: 0.24 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX003583.D
Acq: 22 Jul 2018 05:01

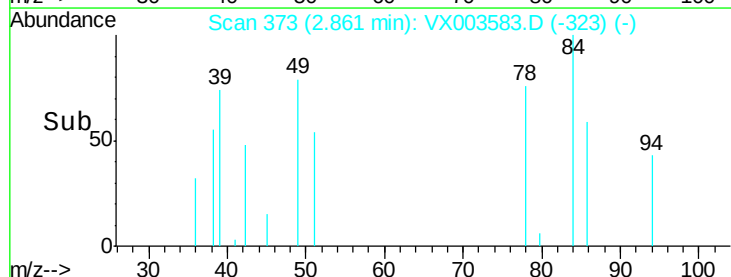
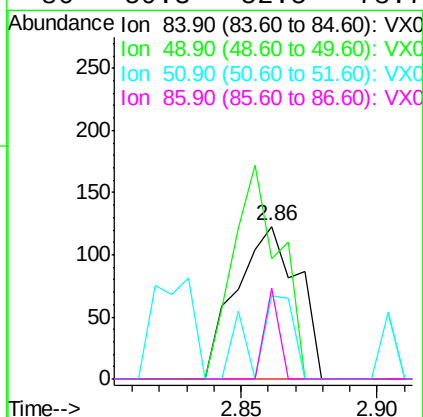
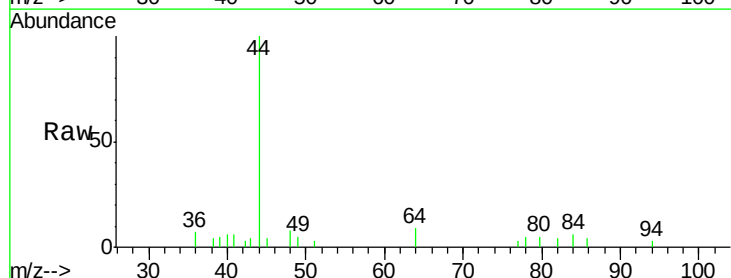
Instrument :
MSVOA_X
ClientSampleId :
KY030SW001-180717

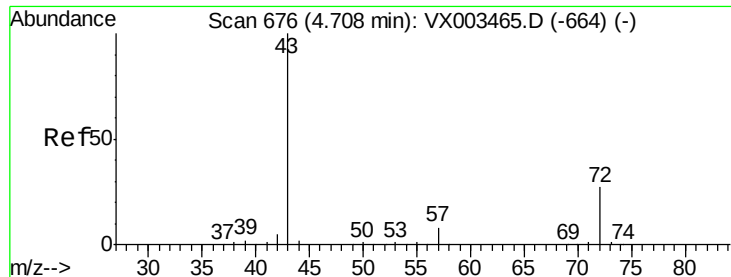
Tot Ion: 43 Resp: 903
Ion Ratio Lower Upper
43 100
74 14.5 16.7 25.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003583.D
Acq: 22 Jul 2018 05:01

Tgt Ion: 84 Resp: 193
Ion Ratio Lower Upper
84 100
49 78.9 107.8 161.6#
51 54.5 32.8 49.2#
86 59.3 52.5 78.7

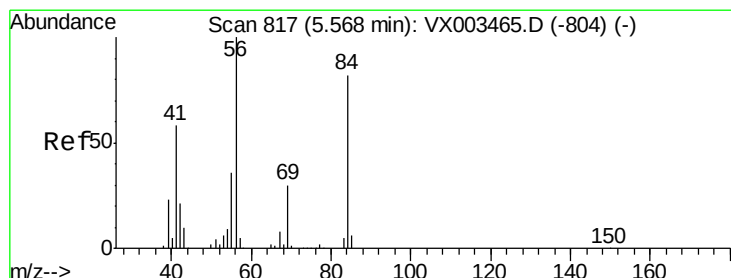
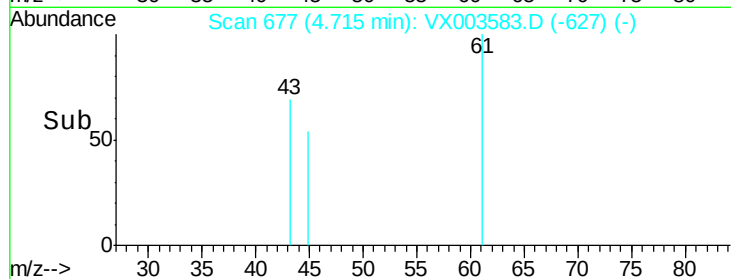
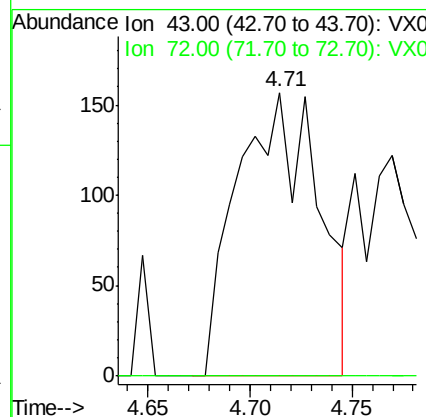
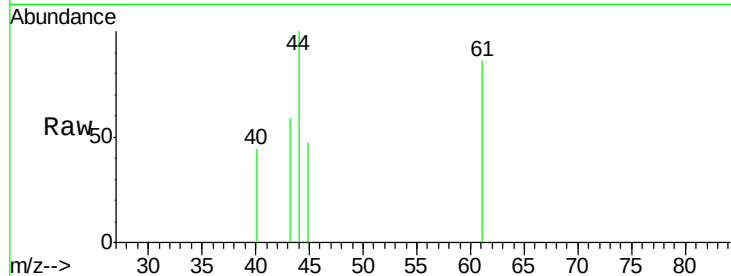




#25
 2-Butanone
 Concen: 0.22 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. 0.01 min
 Lab File: VX003583.D
 Acq: 22 Jul 2018 05:01

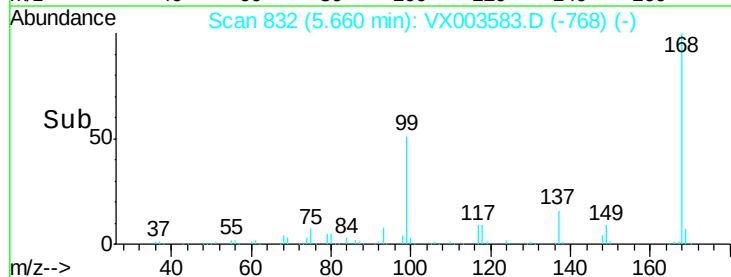
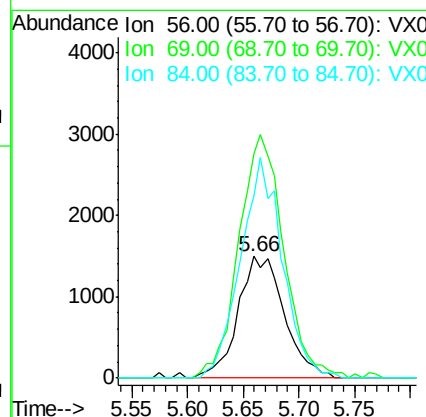
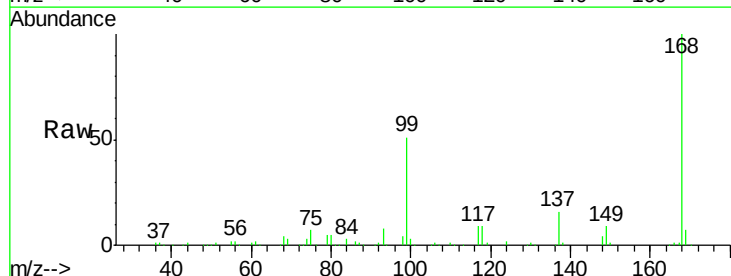
Instrument :
 MSVOA_X
 ClientSampleId :
 KY030SW001-180717

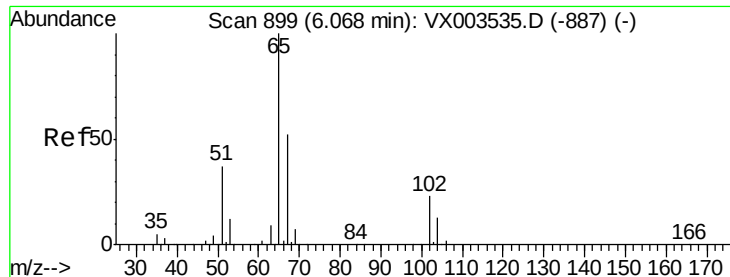
Tot Ion: 43 Resp: 435
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.5 27.7#



#31
 Cyclohexane
 Concen: 0.92 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. 0.09 min
 Lab File: VX003583.D
 Acq: 22 Jul 2018 05:01

Tgt Ion: 56 Resp: 4329
 Ion Ratio Lower Upper
 56 100
 69 185.0 23.7 35.5#
 84 149.9 64.1 96.1#





#33

1,2-Dichloroethane-d4

Concen: 57.48 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

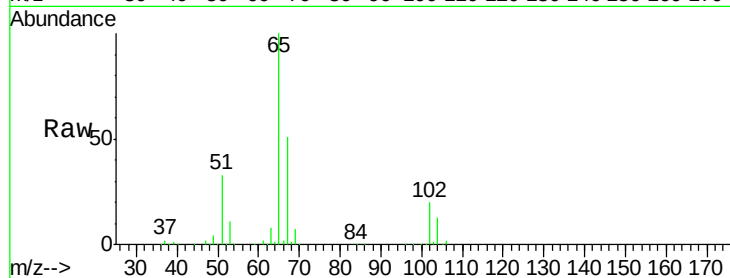
KY030SW001-180717

Tot Ion: 65 Resp: 180441

Ion Ratio Lower Upper

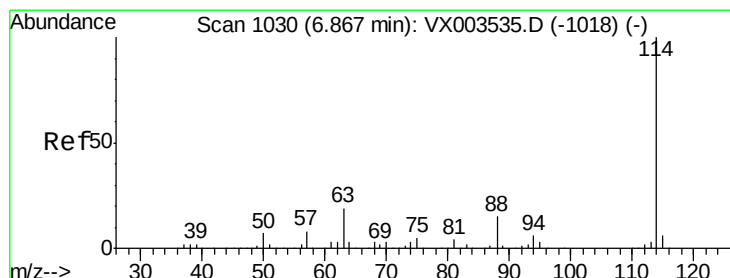
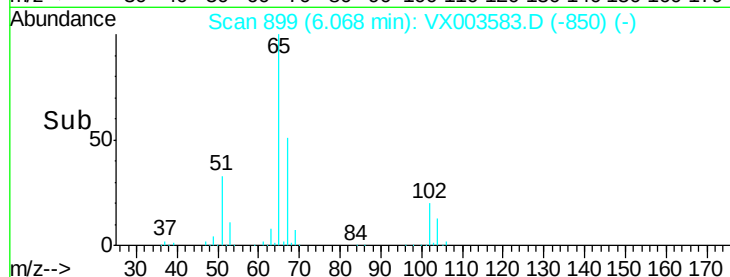
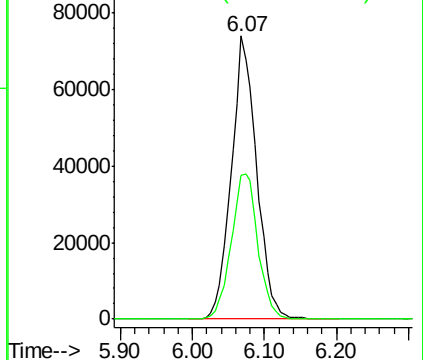
65 100

67 54.1 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

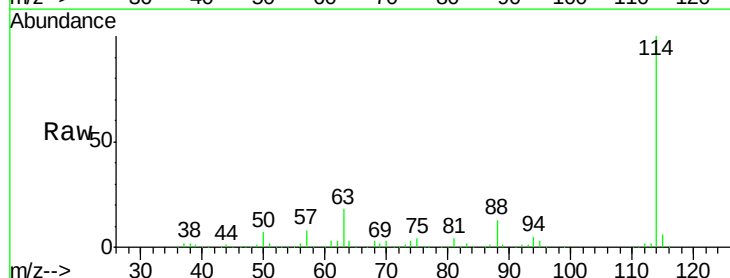
Tgt Ion: 114 Resp: 426246

Ion Ratio Lower Upper

114 100

63 18.0 0.0 41.4

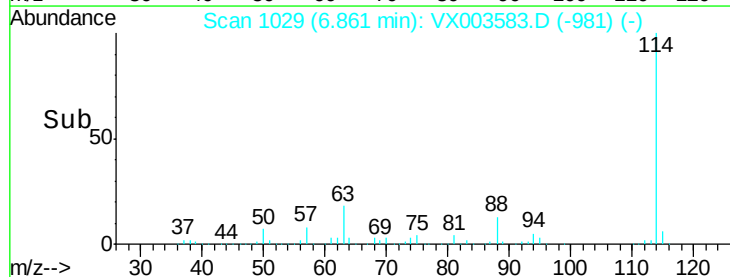
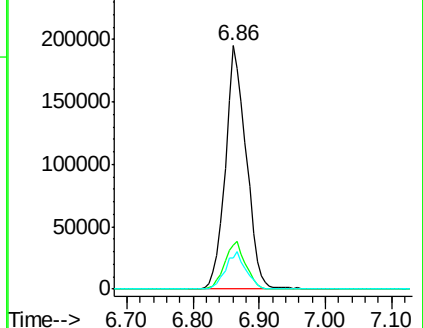
88 12.7 0.0 30.0

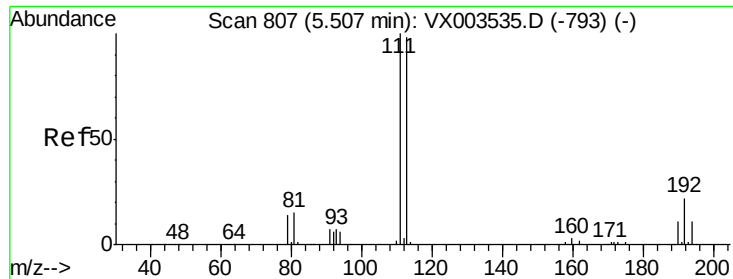


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.47 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

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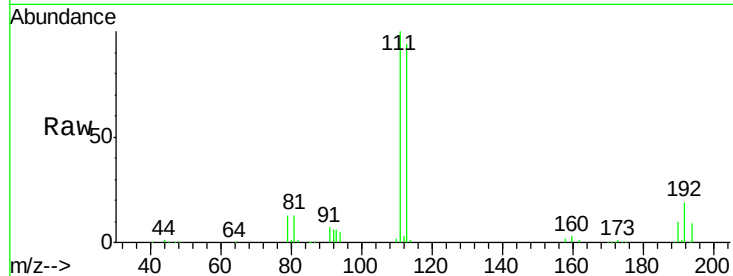
Tot Ion:113 Resp: 163845

Ion Ratio Lower Upper

113 100

111 104.4 81.4 122.0

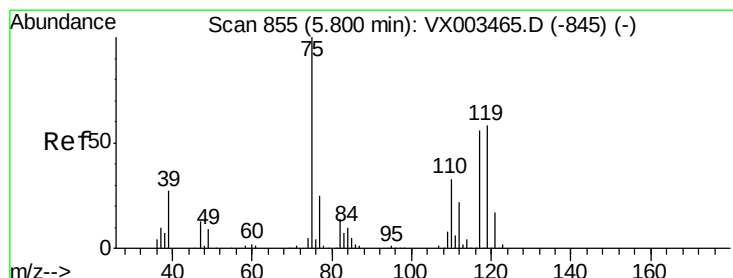
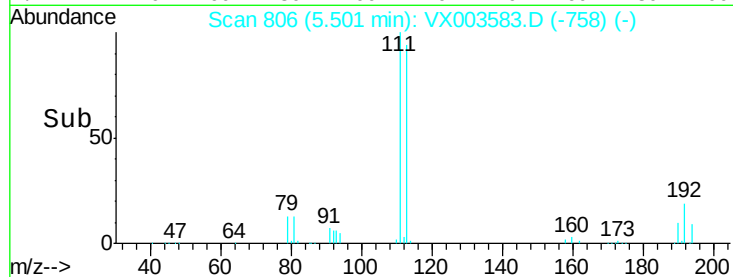
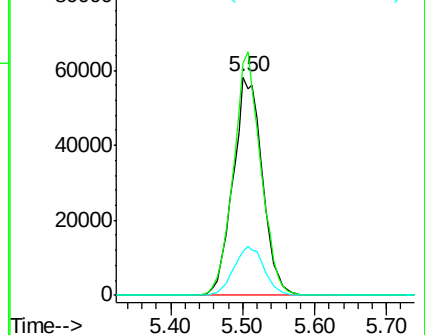
192 23.0 19.1 28.7



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: 3.67 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

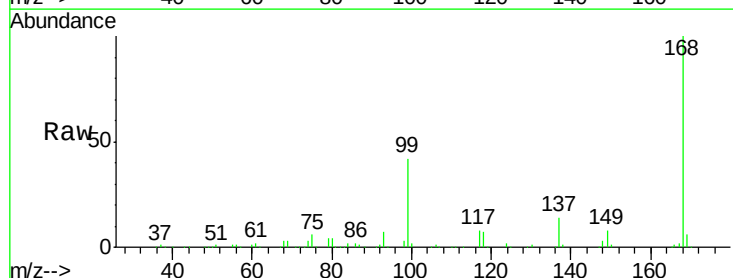
Tgt Ion: 75 Resp: 16894

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.4#

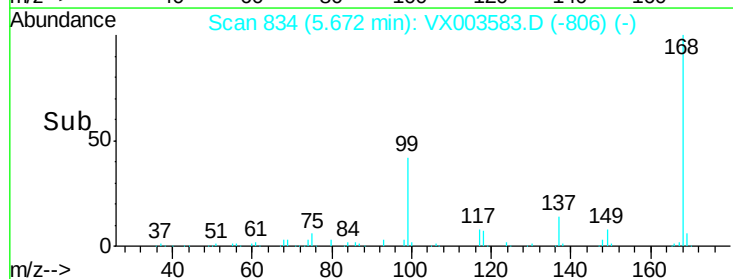
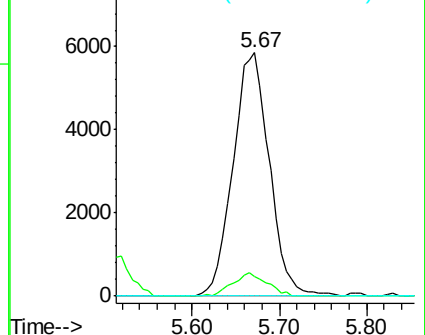
77 0.0 24.3 36.5#

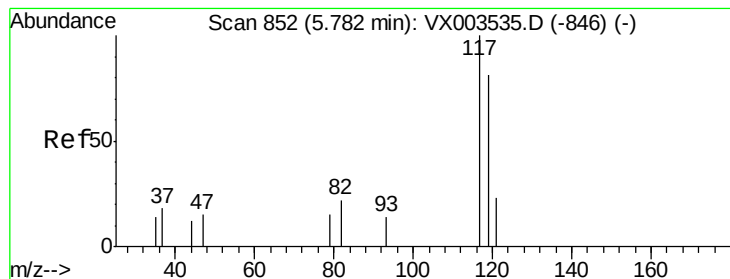


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.03 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.11 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

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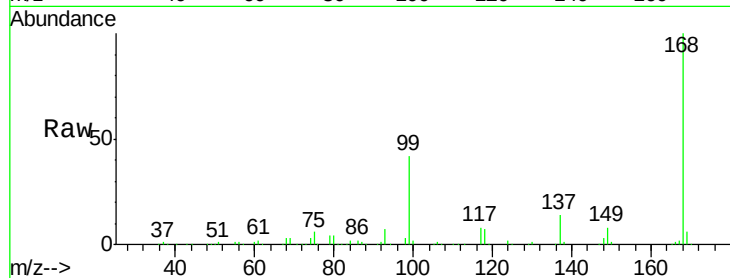
Tot Ion:117 Resp: 22708

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

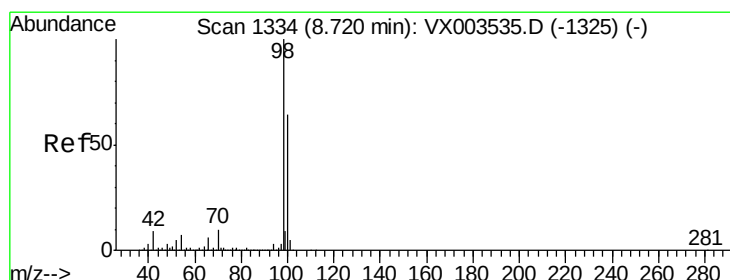
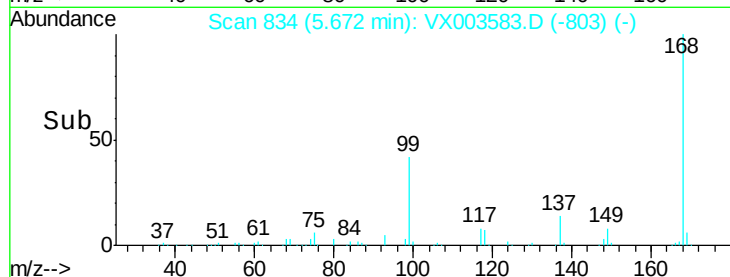
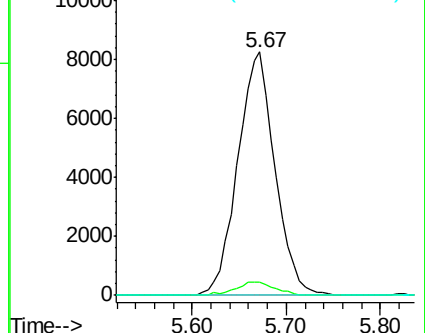
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 46.40 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003583.D

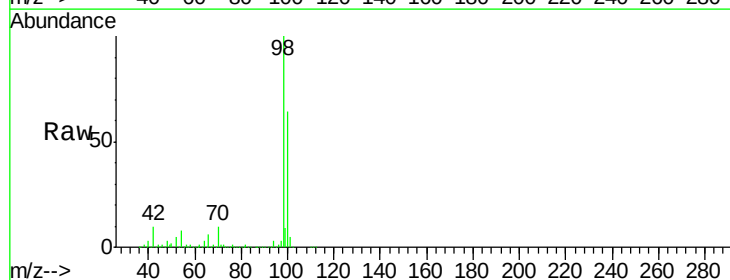
Acq: 22 Jul 2018 05:01

Tgt Ion: 98 Resp: 566251

Ion Ratio Lower Upper

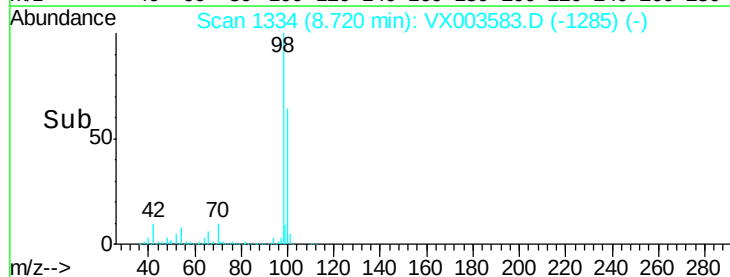
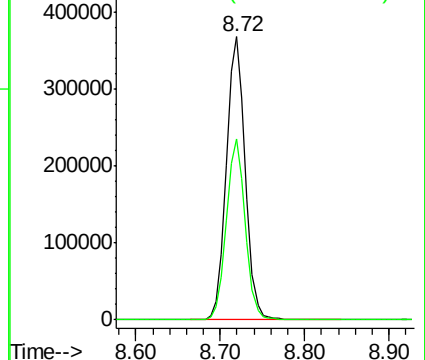
98 100

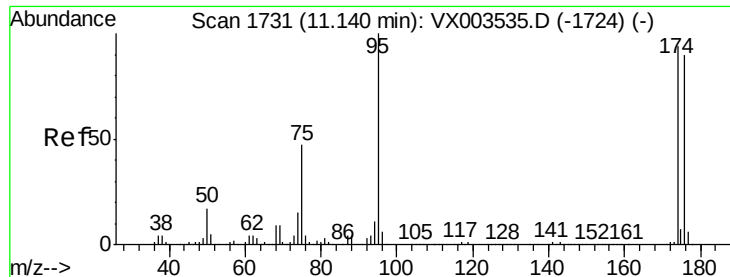
100 64.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 43.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

KY030SW001-180717

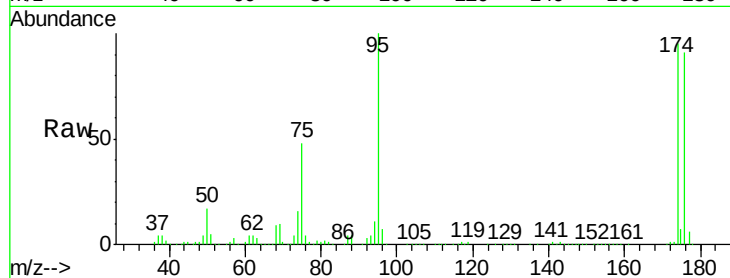
Tot Ion: 95 Resp: 193403

Ion Ratio Lower Upper

95 100

174 95.7 0.0 187.4

176 91.8 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

150000

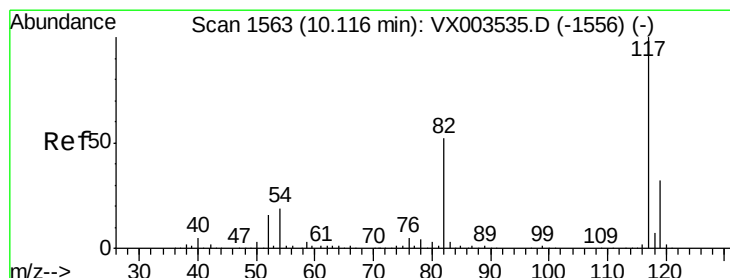
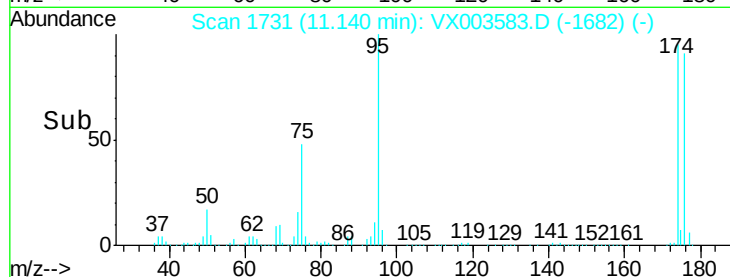
100000

50000

0

Time-->

11.10 11.20 11.30



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

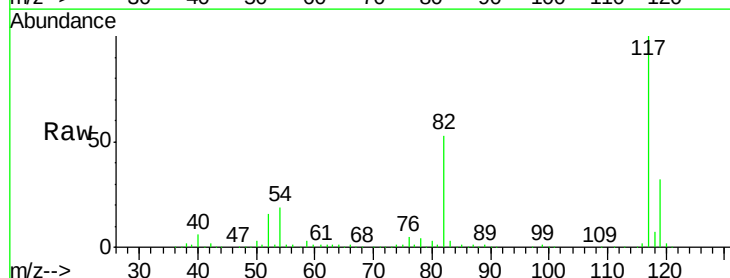
Tgt Ion: 117 Resp: 377459

Ion Ratio Lower Upper

117 100

82 52.8 45.0 67.4

119 31.9 25.8 38.6



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

10.12

400000

300000

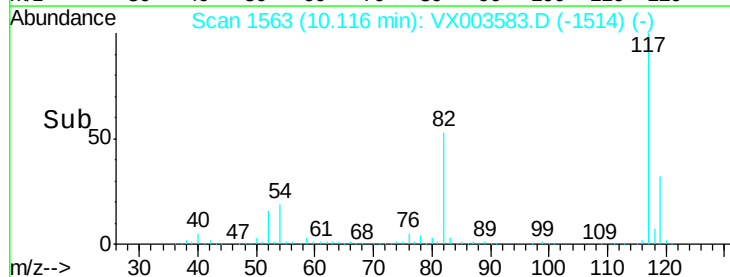
200000

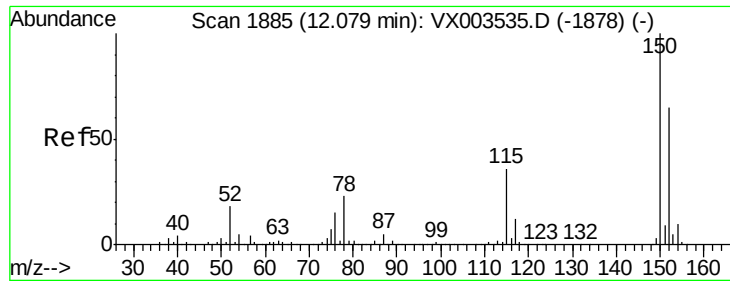
100000

0

Time-->

10.00 10.10 10.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

KY030SW001-180717

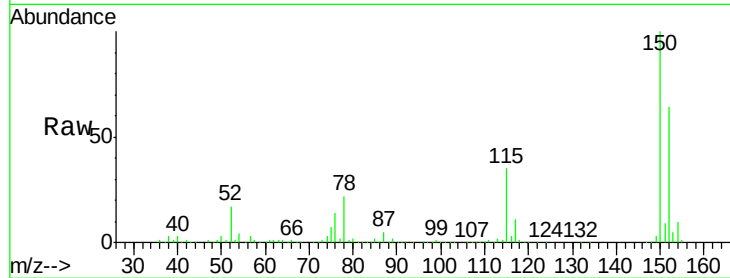
Tot Ion:152 Resp: 210213

Ion Ratio Lower Upper

152 100

115 53.6 40.1 120.2

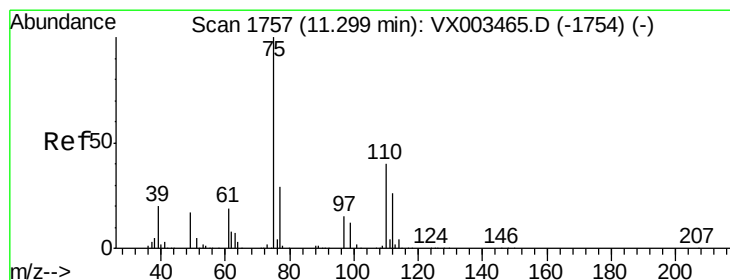
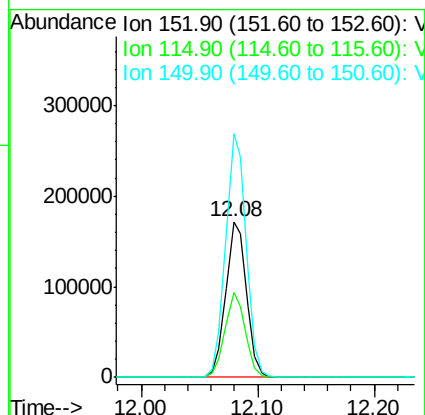
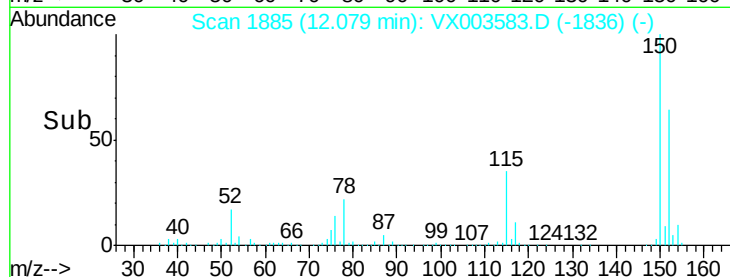
150 155.6 0.0 347.2



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: 24.52 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003583.D

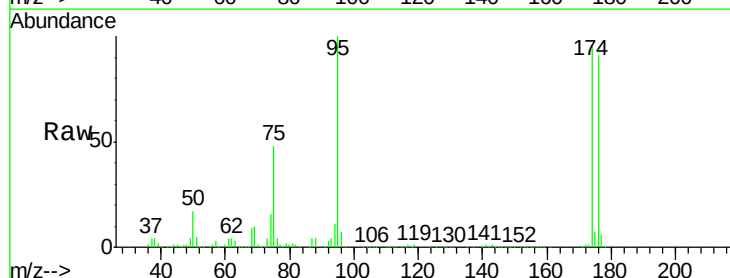
Acq: 22 Jul 2018 05:01

Tgt Ion: 75 Resp: 92614

Ion Ratio Lower Upper

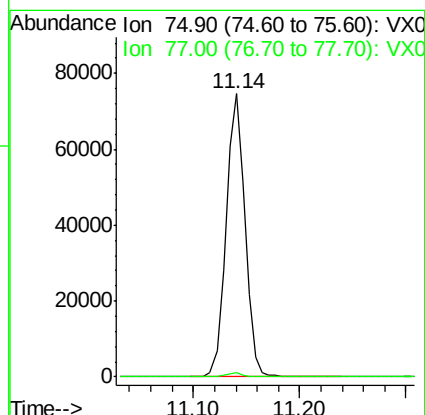
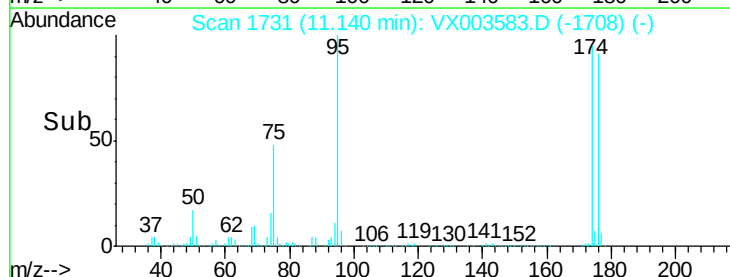
75 100

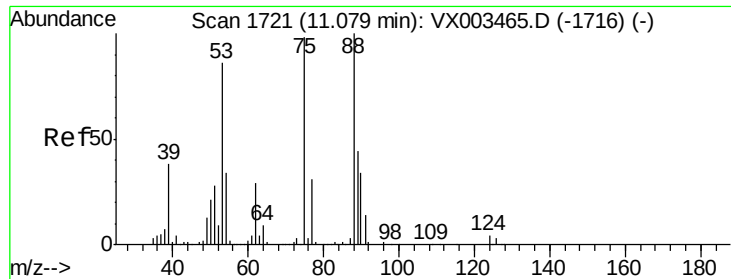
77 1.3 22.8 68.3#



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: 68.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003583.D

Acq: 22 Jul 2018 05:01

Instrument :

MSVOA_X

ClientSampleId :

KY030SW001-180717

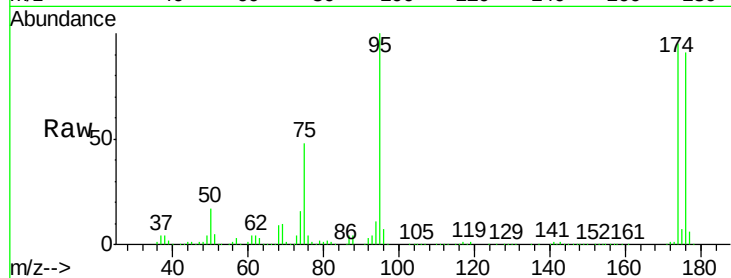
Tot Ion: 75 Resp: 92614

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#



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

