

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081418\
 Data File : VX004041.D
 Acq On : 14 Aug 2018 19:57
 Operator : JC/MD
 Sample : J4438-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP1-SRI3

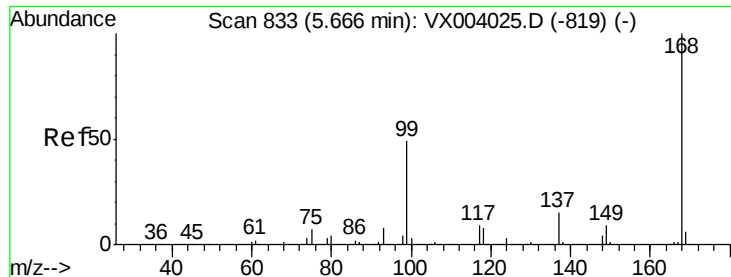
Quant Time: Aug 15 09:29:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	263916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	420984	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	387760	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	214196	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	193403	52.01	ug/l	0.00
Spiked Amount			Recovery	=	104.02%	
35) Dibromofluoromethane	5.51	113	163485	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
50) Toluene-d8	8.72	98	597790	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
62) 4-Bromofluorobenzene	11.14	95	202248	43.65	ug/l	0.00
Spiked Amount			Recovery	=	87.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.17	85	517	0.201	ug/l	88
3) Chloromethane	1.32	50	716	0.227	ug/l	96
5) Bromomethane	1.65	94	990	0.395	ug/l	88
6) Chloroethane	1.66	64	1333	Below Cal	#	49
9) 1,1,2-Trichlorotrifluoroet	2.39	101	76221	25.534	ug/l	99
10) Methyl Iodide	2.51	142	634	5.189	ug/l #	89
11) Tert butyl alcohol	3.03	59	1582	2.113	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	1252	0.451	ug/l	97
13) Acrolein	2.20	56	42	11.028	ug/l #	1
14) Allyl chloride	2.60	41	7306	1.383	ug/l #	61
16) Acetone	2.43	43	5904	3.054	ug/l	97
18) Methyl Acetate	2.60	43	18909	4.401	ug/l #	52
19) Methyl tert-butyl Ether	3.20	73	28157	2.879	ug/l	99
20) Methylene Chloride	2.86	84	391	Below Cal	#	81
27) cis-1,2-Dichloroethene	4.59	96	1485	0.419	ug/l	37
28) Bromochloromethane	5.22	49	1816	0.675	ug/l #	10
30) Chloroform	5.22	83	21229	3.710	ug/l	95
36) 1,1-Dichloropropene	5.66	75	18696	3.903	ug/l #	49
38) Carbon Tetrachloride	5.79	117	5363	1.152	ug/l	100
44) Trichloroethene	7.21	130	20925	5.358	ug/l	97
60) Dibromochloromethane	9.34	129	43101	11.922	ug/l #	11
64) Tetrachloroethene	9.34	164	49264	13.405	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	97937	22.800	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	97937	70.577	ug/l #	9
95) Naphthalene	13.83	128	664	1.188	ug/l #	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

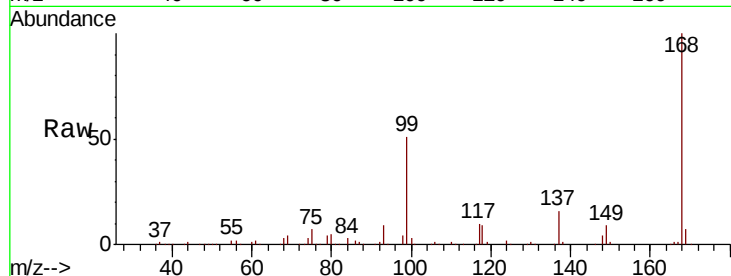
DUP1-SRI3

Tgt Ion:168 Resp: 263916

Ion Ratio Lower Upper

168 100

99 51.4 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

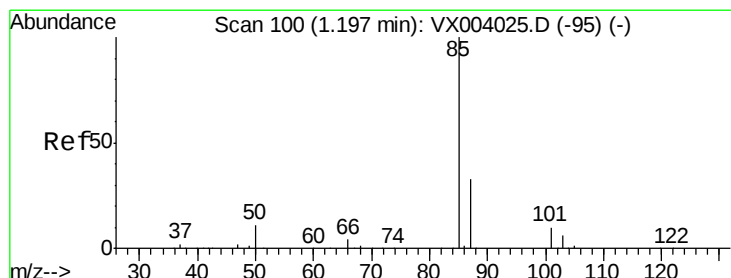
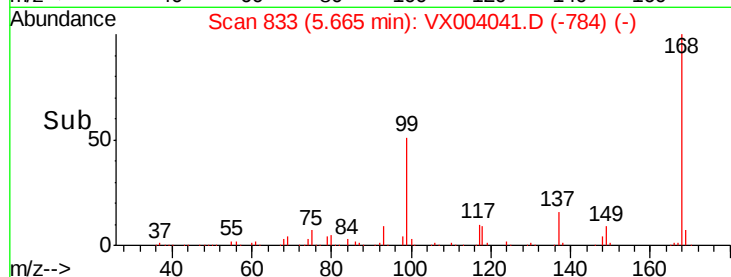
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.201 ug/l

RT: 1.17 min Scan# 96

Delta R.T. -0.02 min

Lab File: VX004041.D

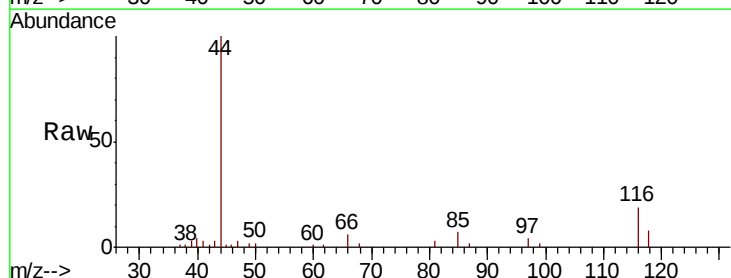
Acq: 14 Aug 2018 19:57

Tgt Ion: 85 Resp: 517

Ion Ratio Lower Upper

85 100

87 25.3 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.17

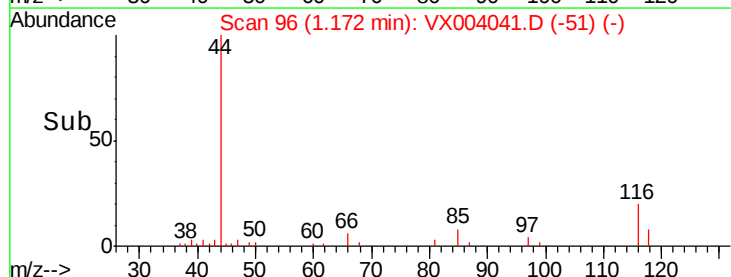
600

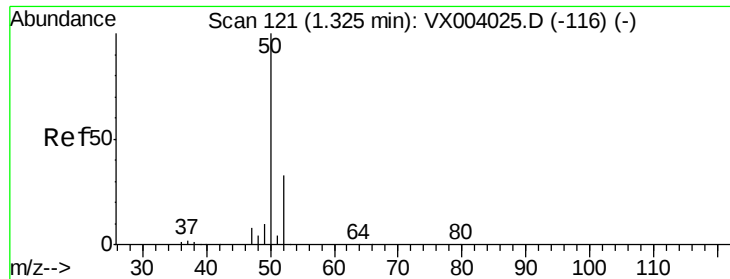
400

200

0

Time--> 1.14 1.16 1.18





#3

Chloromethane

Concen: 0.227 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

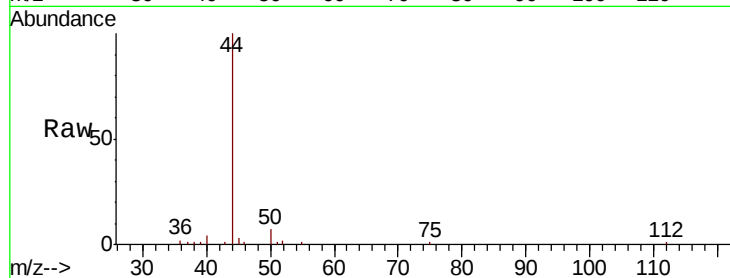
DUP1-SRI3

Tgt Ion: 50 Resp: 716

Ion Ratio Lower Upper

50 100

52 31.2 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

300

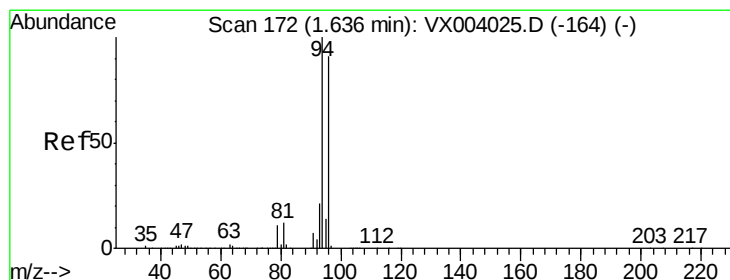
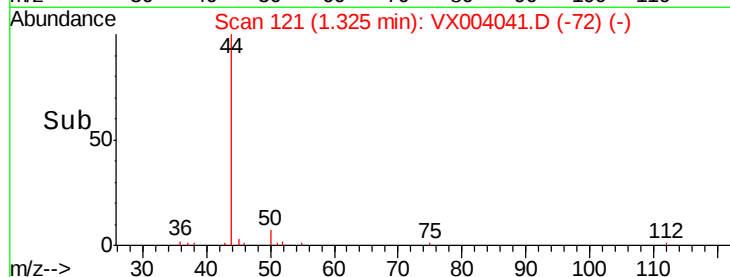
200

100

0

1.30 1.35

Time-->



#5

Bromomethane

Concen: 0.395 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004041.D

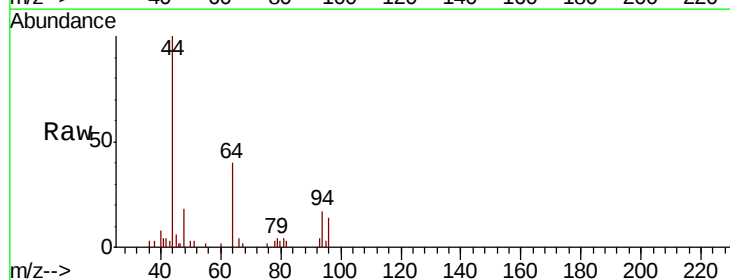
Acq: 14 Aug 2018 19:57

Tgt Ion: 94 Resp: 990

Ion Ratio Lower Upper

94 100

96 81.9 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

300

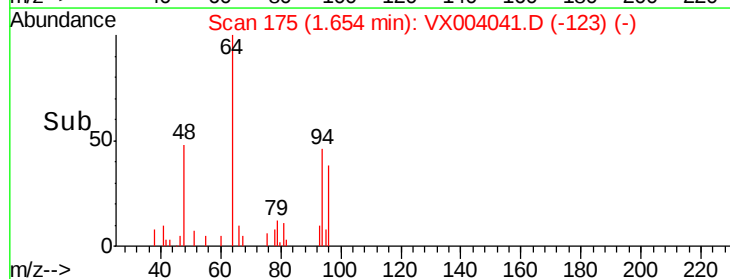
200

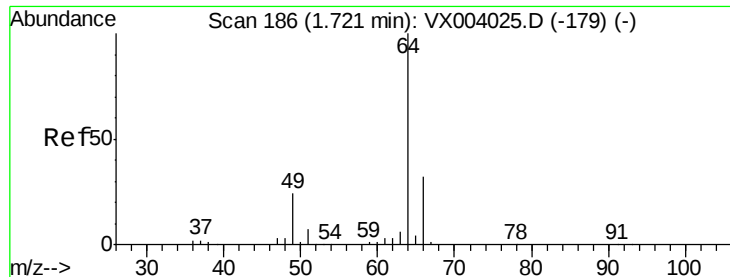
100

0

1.60 1.65 1.70 1.75

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. -0.06 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

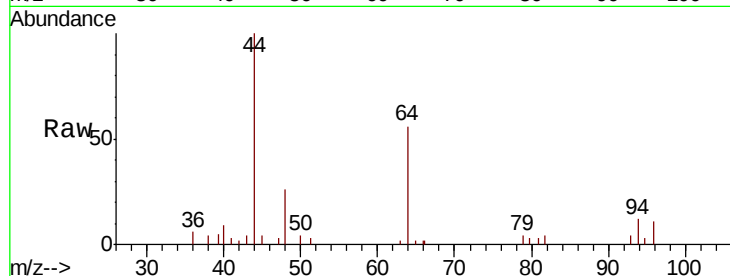
DUP1-SRI3

Tgt Ion: 64 Resp: 1333

Ion Ratio Lower Upper

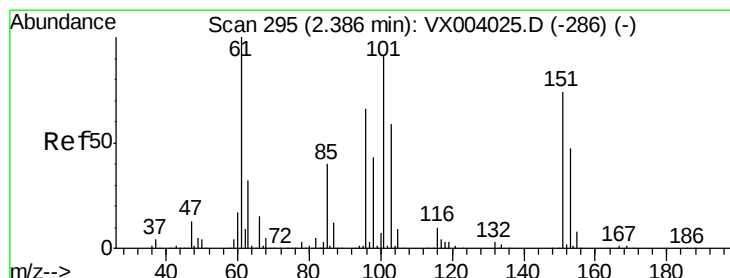
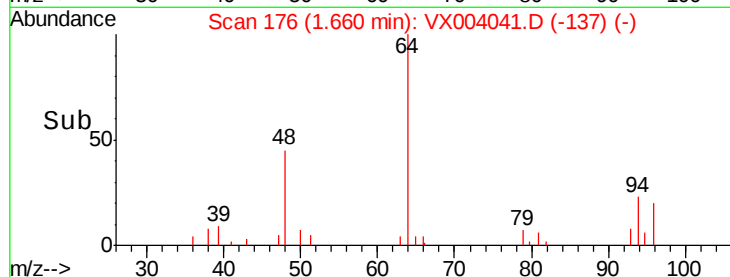
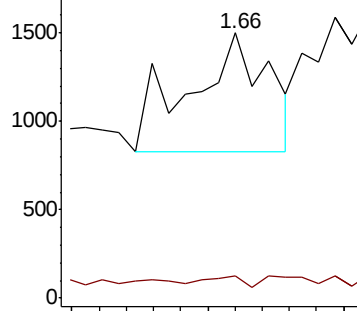
64 100

66 4.3 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.534 ug/l

RT: 2.39 min Scan# 296

Delta R.T. 0.01 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

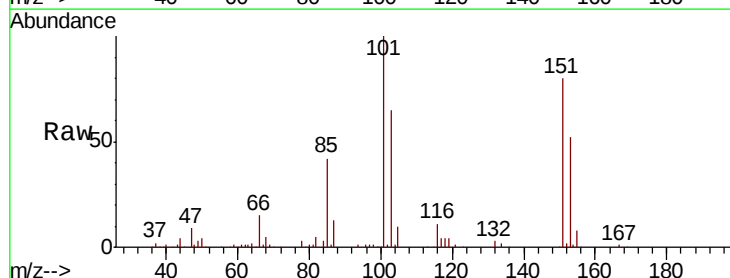
Tgt Ion: 101 Resp: 76221

Ion Ratio Lower Upper

101 100

85 42.9 34.2 51.4

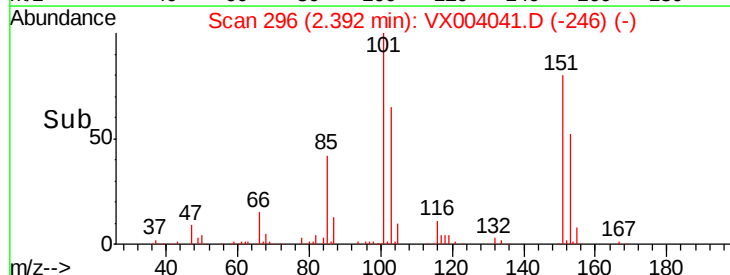
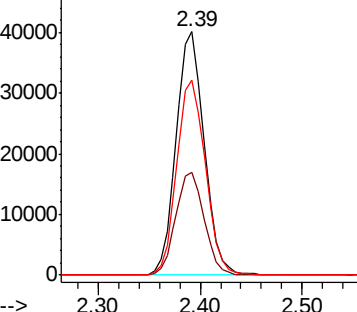
151 82.0 65.0 97.4

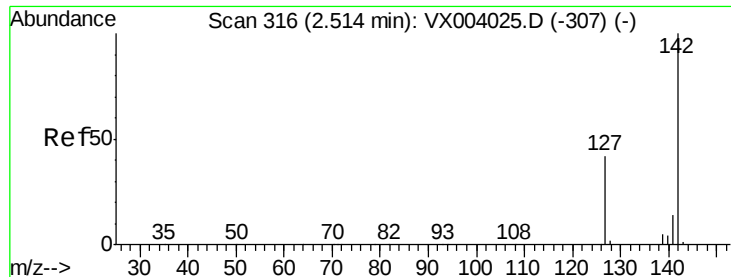


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

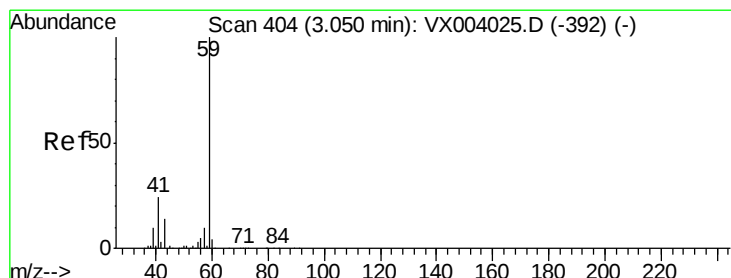
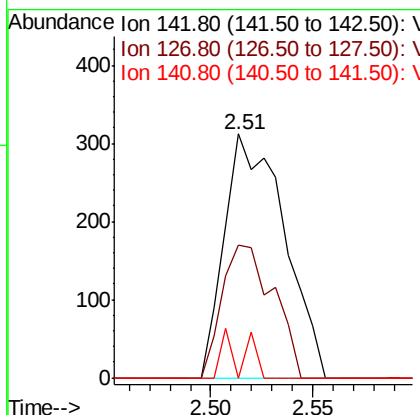
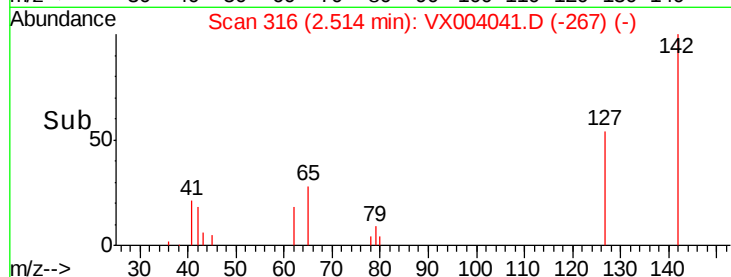
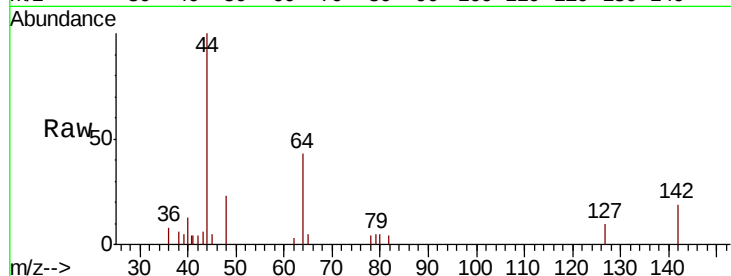




#10
Methyl Iodide
Concen: 5.189 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX004041.D
Acq: 14 Aug 2018 19:57

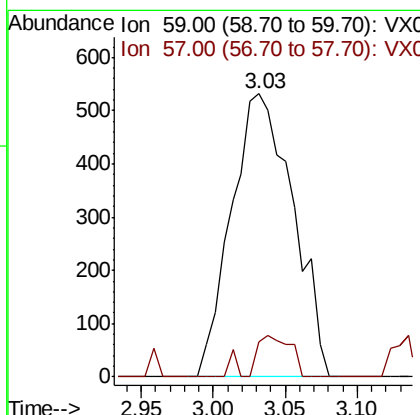
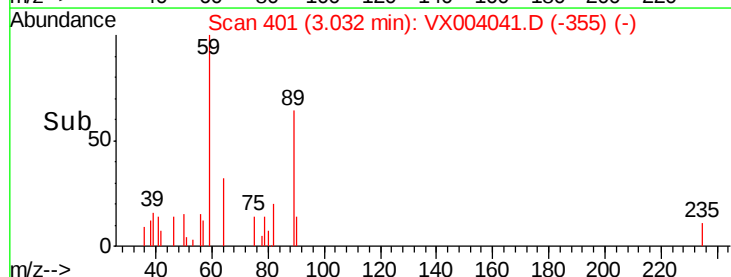
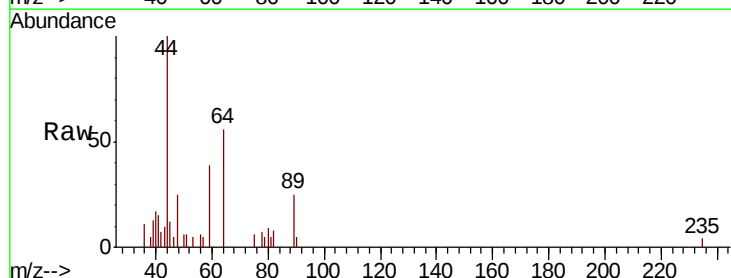
Instrument :
MSVOA_X
ClientSampleId :
DUP1-SRI3

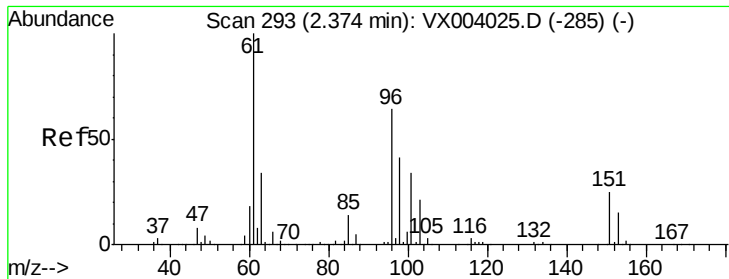
Tgt Ion: 142 Resp: 634
Ion Ratio Lower Upper
142 100
127 46.7 33.1 49.7
141 7.1 11.1 16.7#



#11
Tert butyl alcohol
Concen: 2.113 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.02 min
Lab File: VX004041.D
Acq: 14 Aug 2018 19:57

Tgt Ion: 59 Resp: 1582
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#12

1,1-Dichloroethene

Concen: 0.451 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampled :

DUP1-SRI3

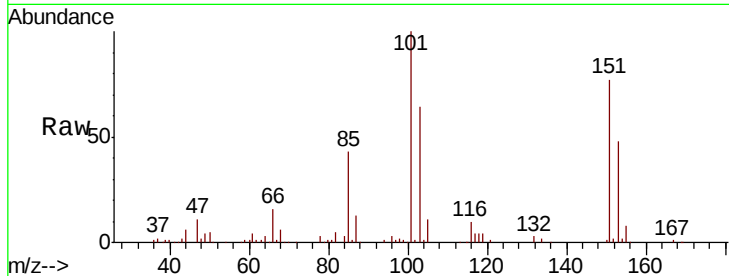
Tgt Ion: 96 Resp: 1252

Ion Ratio Lower Upper

96 100

61 165.1 131.3 196.9

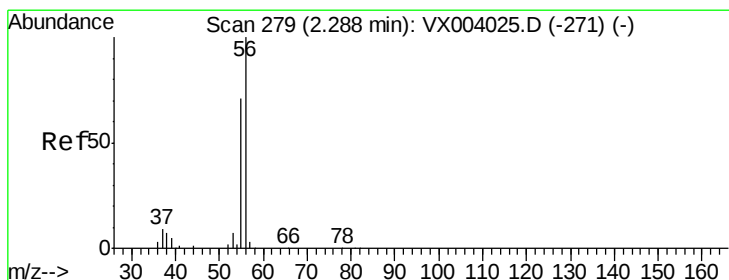
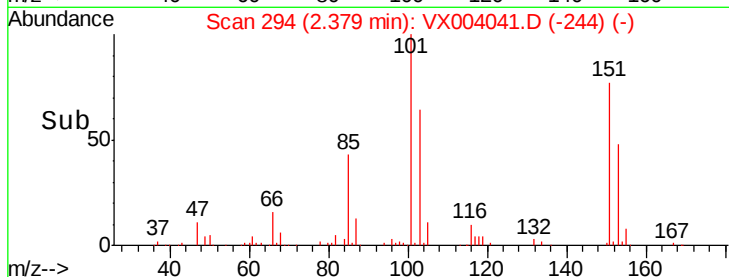
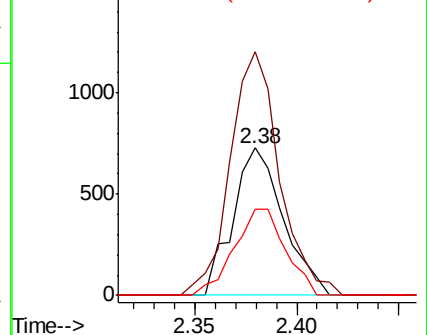
98 58.5 51.8 77.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 11.028 ug/l

RT: 2.20 min Scan# 264

Delta R.T. -0.09 min

Lab File: VX004041.D

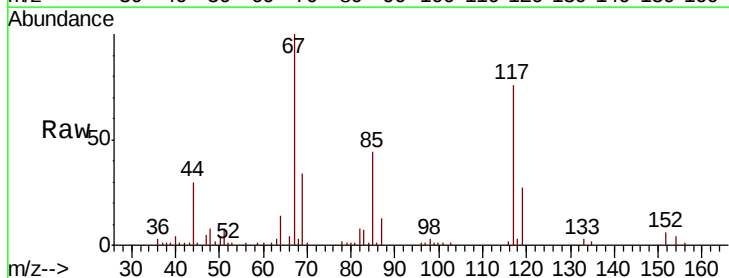
Acq: 14 Aug 2018 19:57

Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

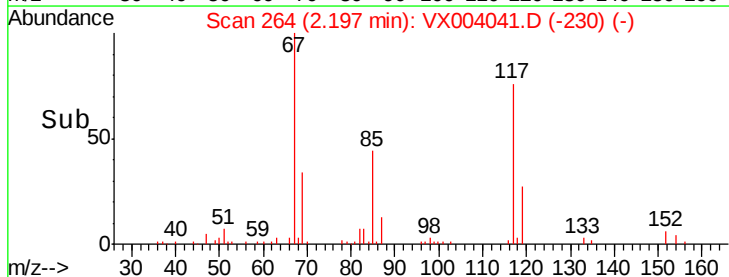
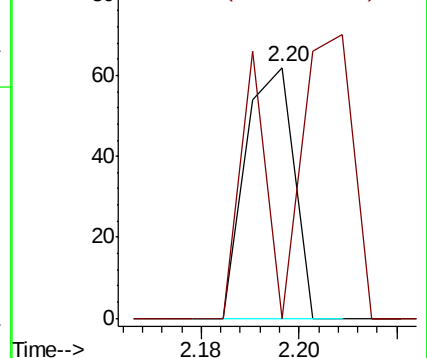
56 100

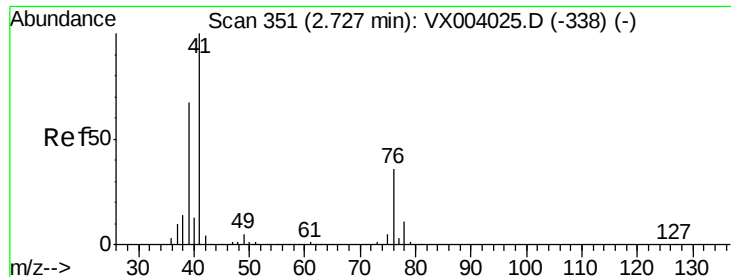
55 176.2 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

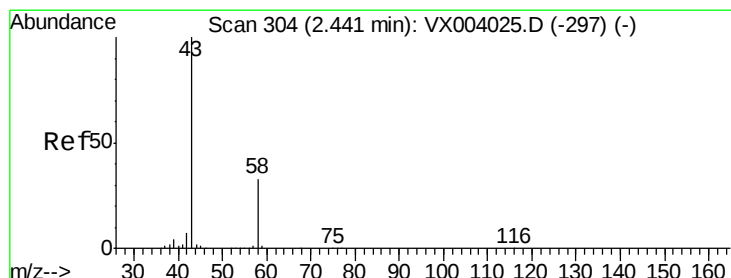
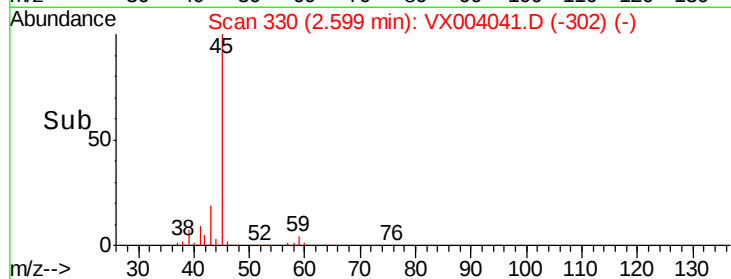
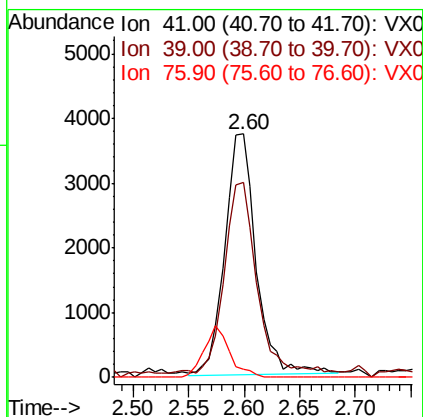
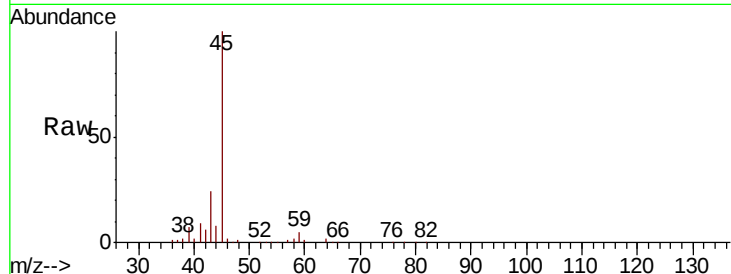




#14
 Allyl chloride
 Concen: 1.383 ug/l
 RT: 2.60 min Scan# 330
 Delta R.T. -0.13 min
 Lab File: VX004041.D
 Acq: 14 Aug 2018 19:57

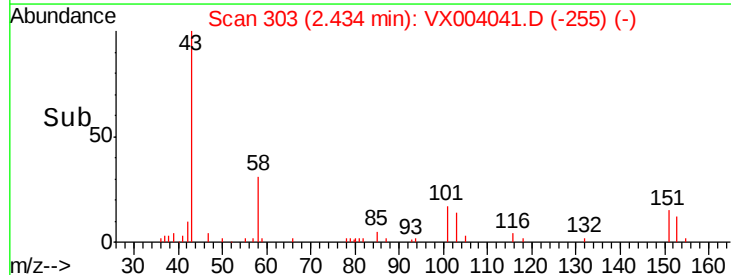
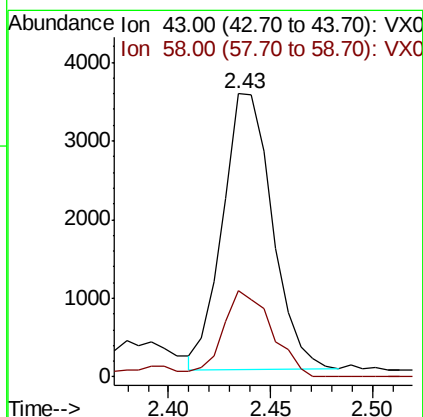
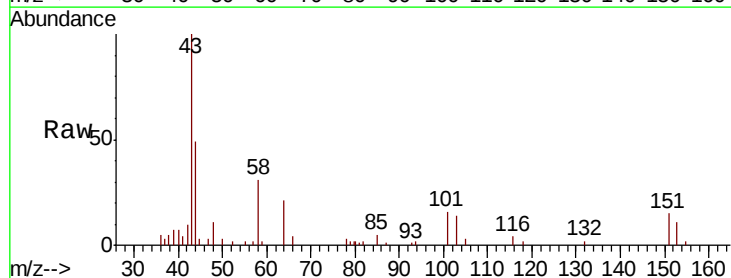
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP1-SRI3

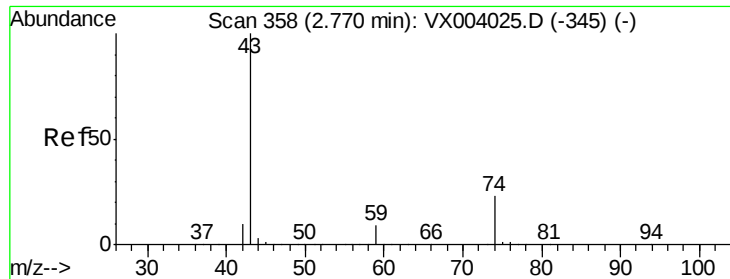
Tgt Ion: 41 Resp: 7306
 Ion Ratio Lower Upper
 41 100
 39 80.9 47.4 71.0#
 76 0.0 26.0 39.0#



#16
 Acetone
 Concen: 3.054 ug/l
 RT: 2.43 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VX004041.D
 Acq: 14 Aug 2018 19:57

Tgt Ion: 43 Resp: 5904
 Ion Ratio Lower Upper
 43 100
 58 31.6 26.4 39.6

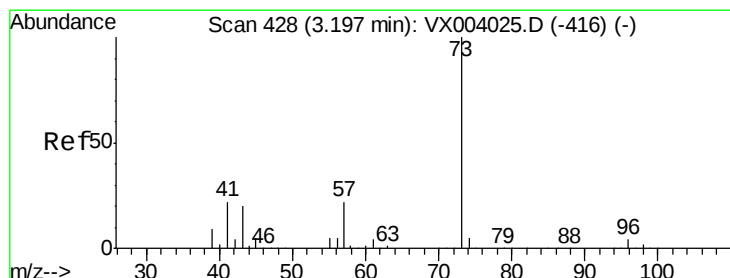
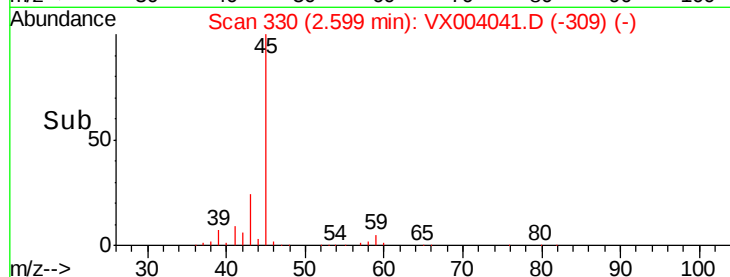
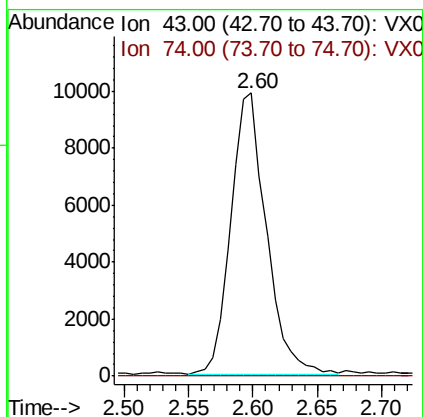
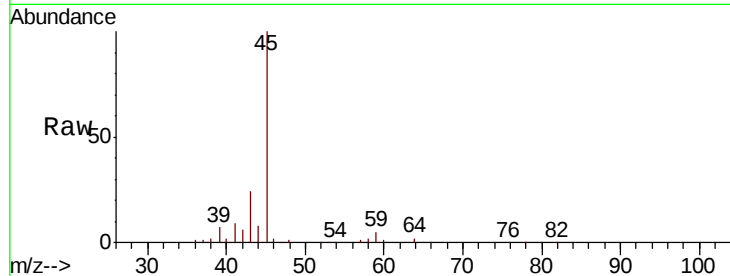




#18
Methyl Acetate
Concen: 4.401 ug/l
RT: 2.60 min Scan# 330
Delta R.T. -0.17 min
Lab File: VX004041.D
Acq: 14 Aug 2018 19:57

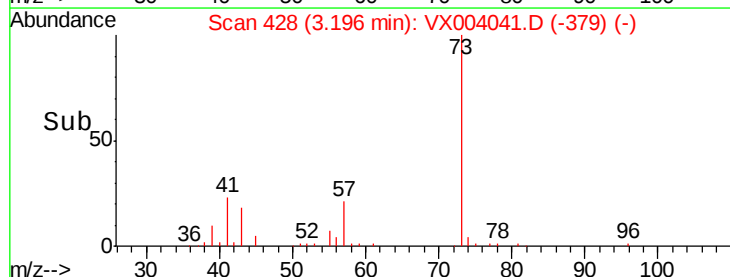
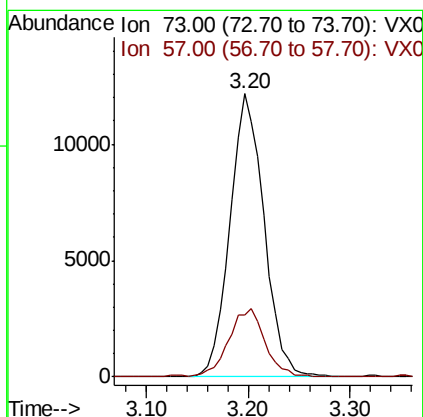
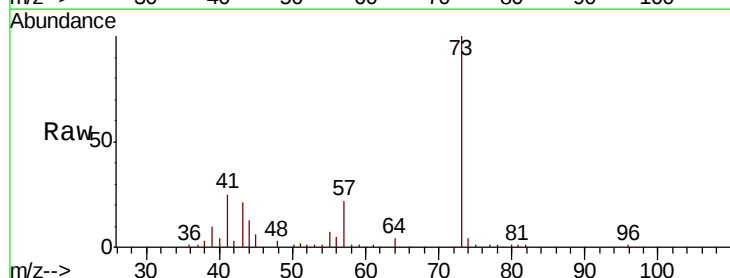
Instrument :
MSVOA_X
ClientSampled :
DUP1-SRI3

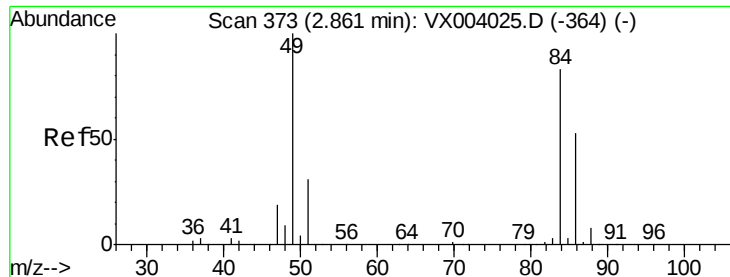
Tgt Ion: 43 Resp: 18909
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#19
Methyl tert-butyl Ether
Concen: 2.879 ug/l
RT: 3.20 min Scan# 428
Delta R.T. -0.00 min
Lab File: VX004041.D
Acq: 14 Aug 2018 19:57

Tgt Ion: 73 Resp: 28157
Ion Ratio Lower Upper
73 100
57 22.1 18.0 27.0

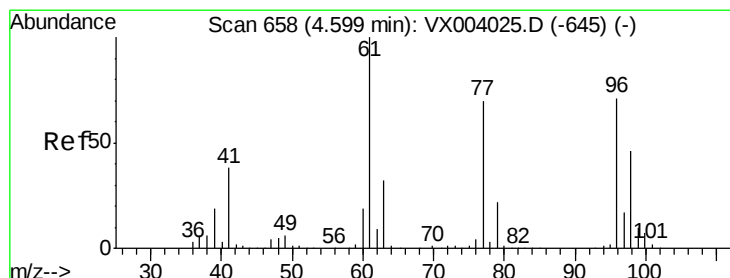
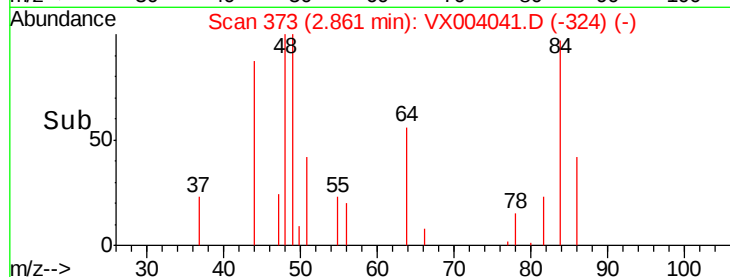
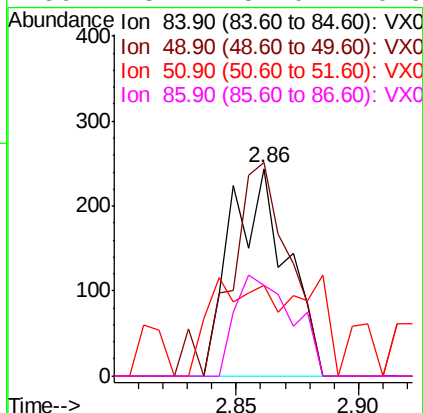
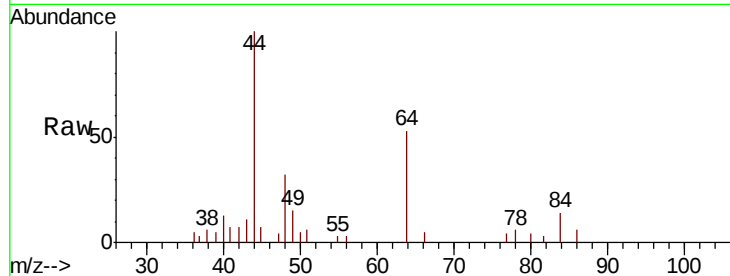




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX004041.D
Acq: 14 Aug 2018 19:57

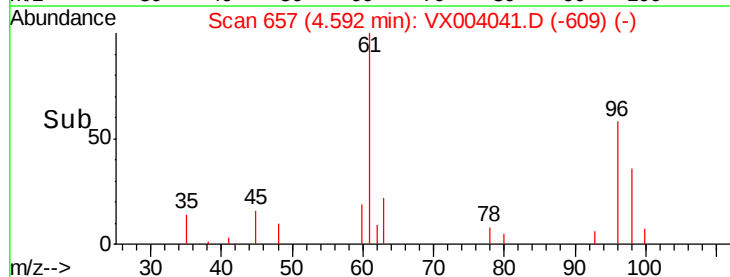
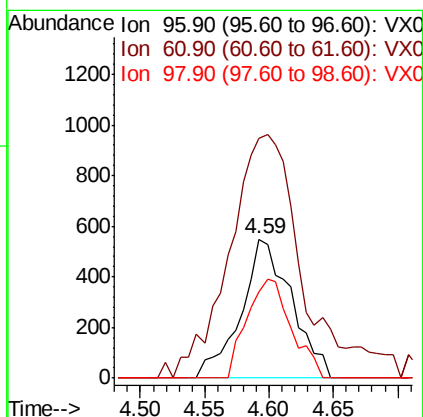
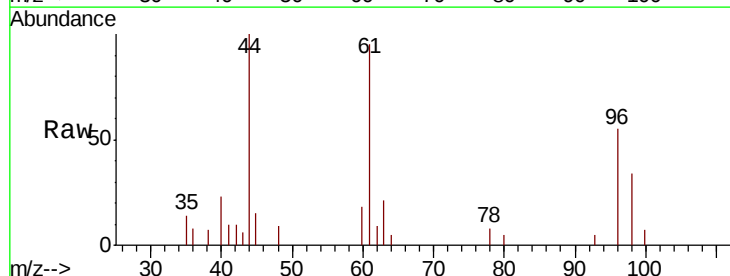
Instrument :
MSVOA_X
ClientSampleId :
DUP1-SRI3

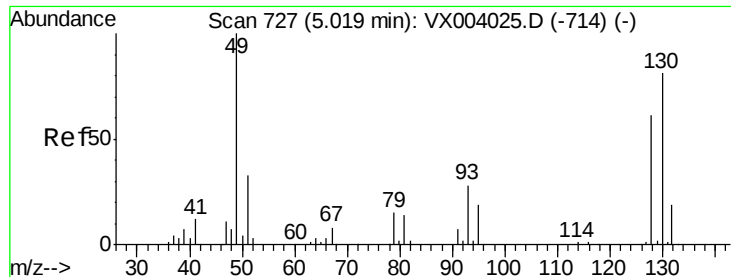
Tgt Ion: 84 Resp: 391
Ion Ratio Lower Upper
84 100
49 102.9 98.9 148.3
51 43.9 29.9 44.9
86 43.4 51.0 76.6#



#27
cis-1,2-Dichloroethene
Concen: 0.419 ug/l
RT: 4.59 min Scan# 657
Delta R.T. -0.01 min
Lab File: VX004041.D
Acq: 14 Aug 2018 19:57

Tgt Ion: 96 Resp: 1485
Ion Ratio Lower Upper
96 100
61 258.1 0.0 293.0
98 62.5 0.0 131.8





#28

Bromochloromethane

Concen: 0.675 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.20 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

DUP1-SRI3

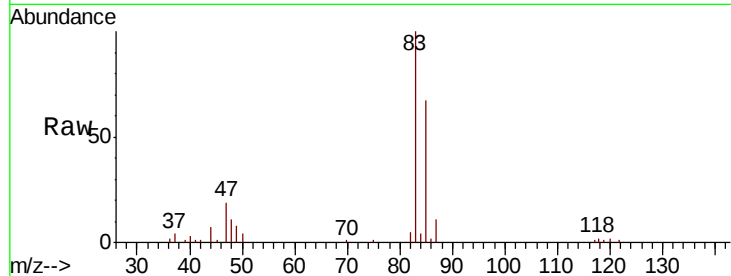
Tgt Ion: 49 Resp: 1816

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

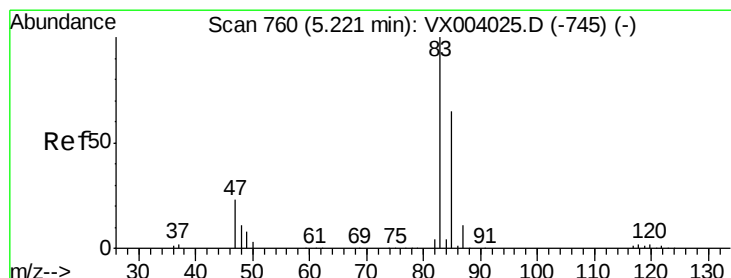
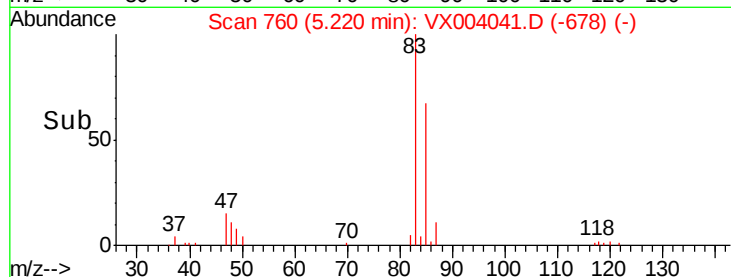
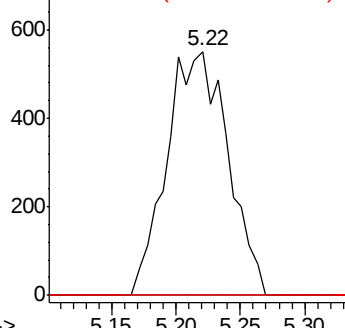
130 0.0 66.5 99.7#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 3.710 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.00 min

Lab File: VX004041.D

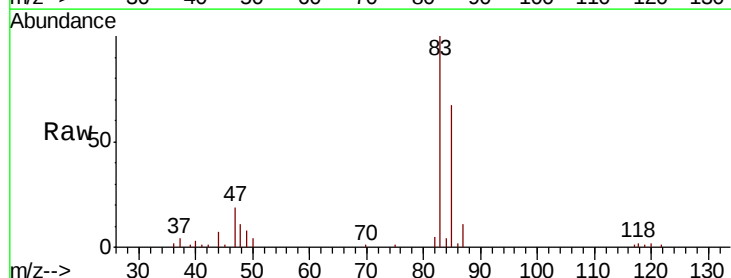
Acq: 14 Aug 2018 19:57

Tgt Ion: 83 Resp: 21229

Ion Ratio Lower Upper

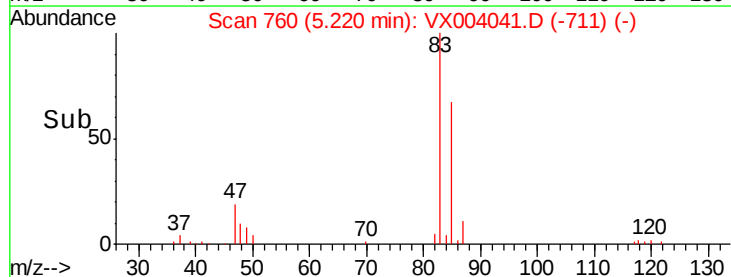
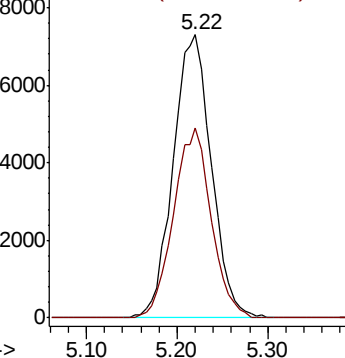
83 100

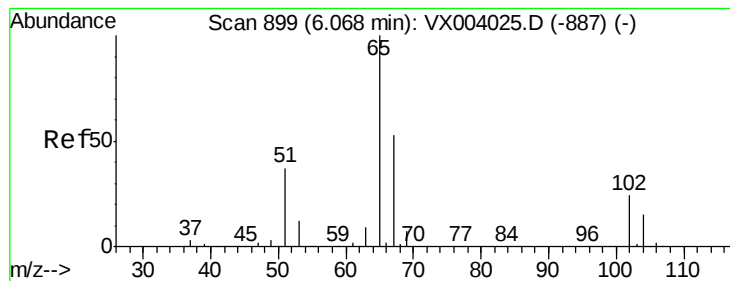
85 67.3 50.7 76.1



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.012 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

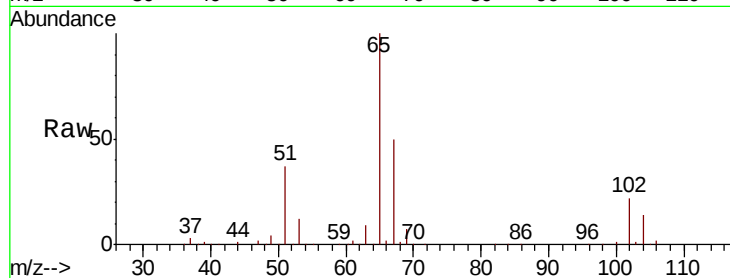
DUP1-SRI3

Tgt Ion: 65 Resp: 193403

Ion Ratio Lower Upper

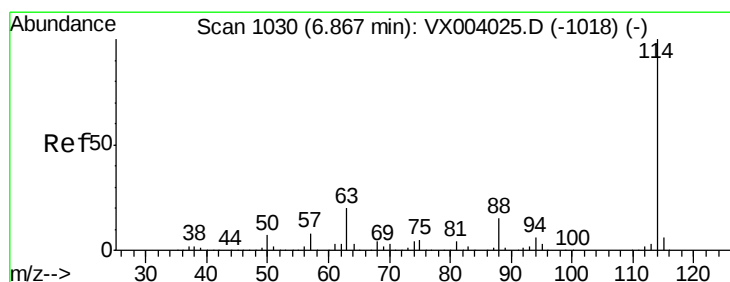
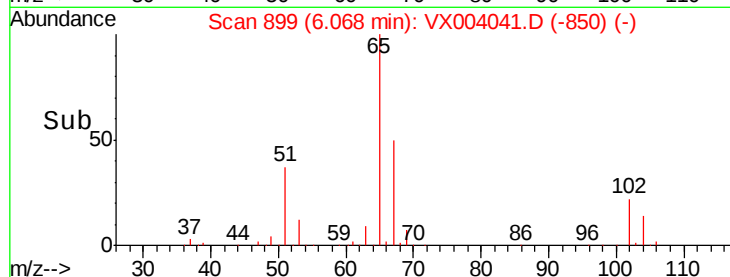
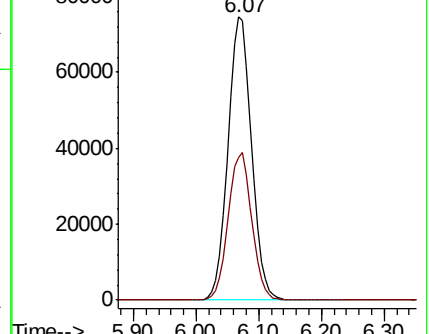
65 100

67 52.2 0.0 105.8



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: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

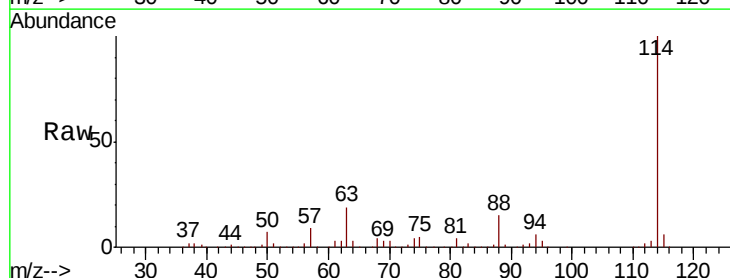
Tgt Ion: 114 Resp: 420984

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.0

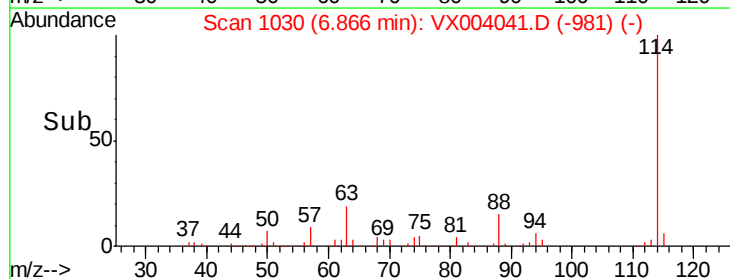
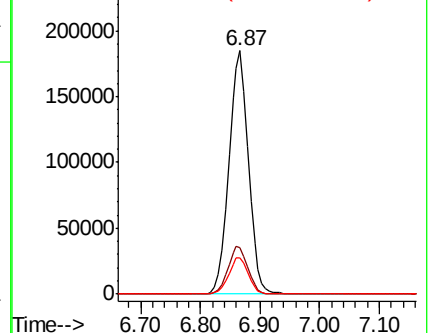
88 15.0 0.0 32.0

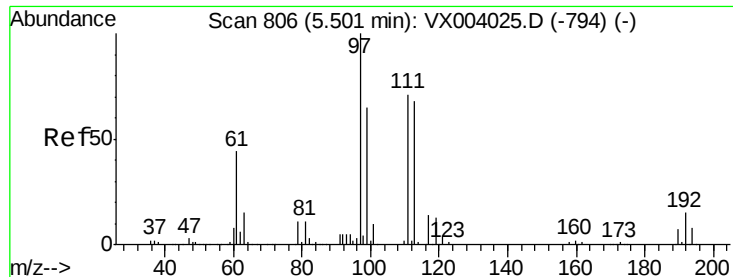


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

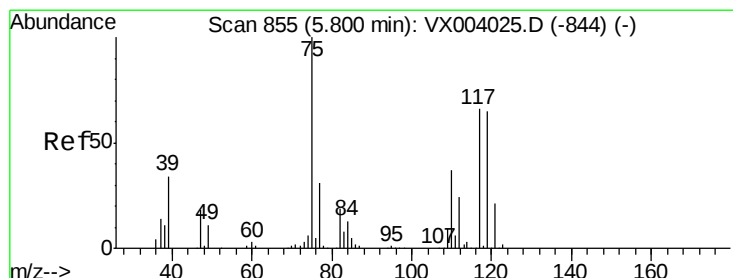
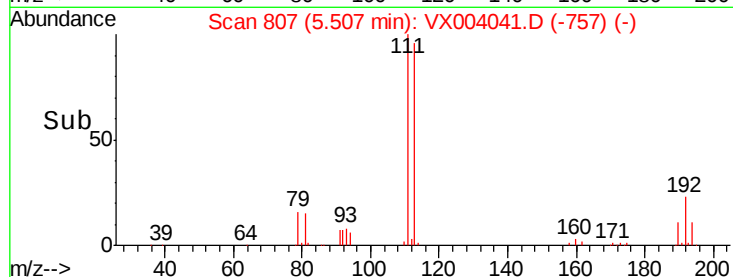
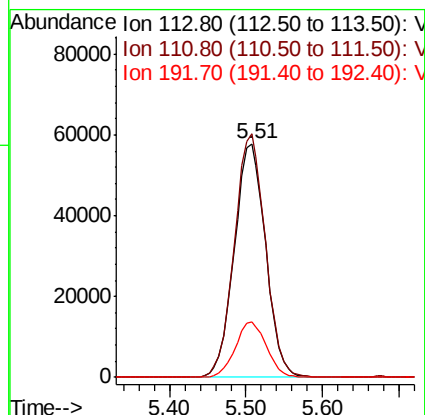
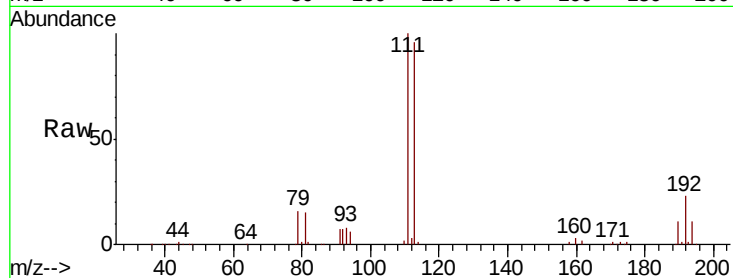




#35
 Dibromofluoromethane
 Concen: 51.888 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004041.D
 Acq: 14 Aug 2018 19:57

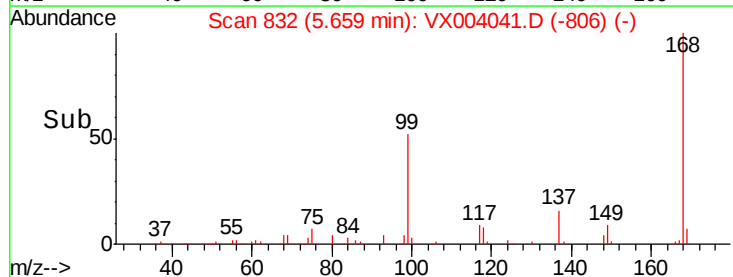
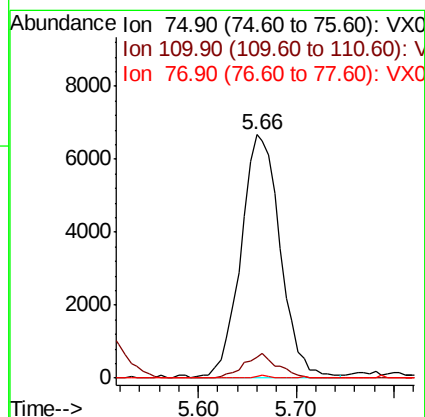
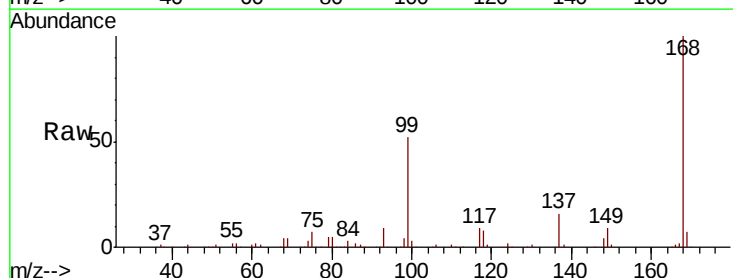
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP1-SRI3

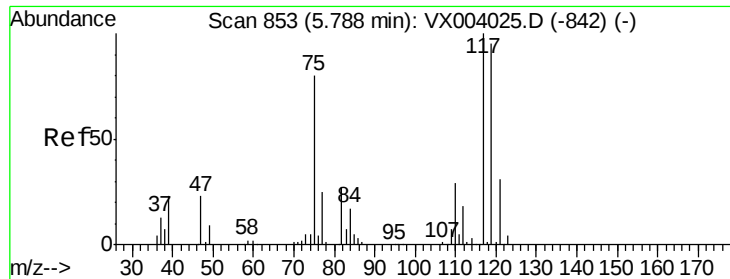
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.0	123.0
192	23.6	19.0	28.4



#36
 1,1-Dichloropropene
 Concen: 3.903 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004041.D
 Acq: 14 Aug 2018 19:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.2	54.6#
77	0.4	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 1.152 ug/l

RT: 5.79 min Scan# 853

Delta R.T. -0.00 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampled :

DUP1-SRI3

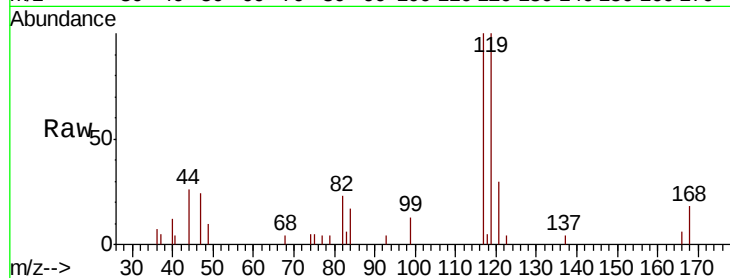
Tgt Ion:117 Resp: 5363

Ion Ratio Lower Upper

117 100

119 99.6 79.5 119.3

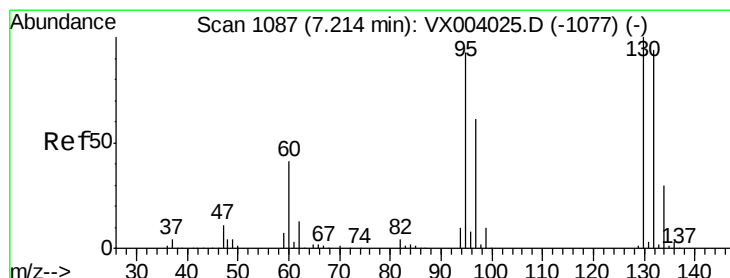
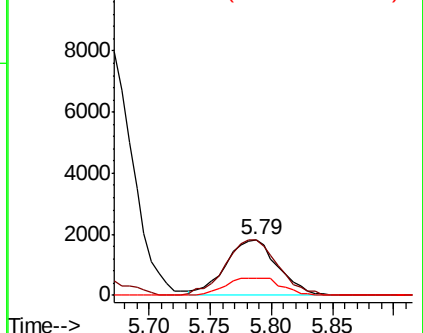
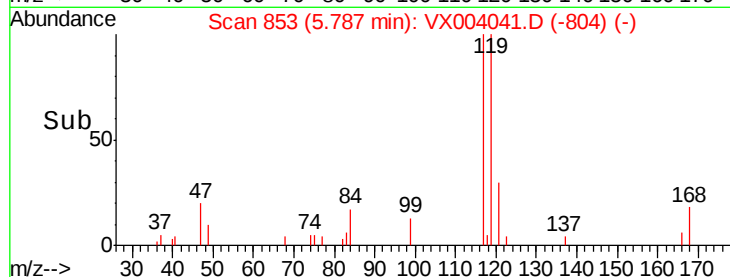
121 30.4 25.0 37.4



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 5.358 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX004041.D

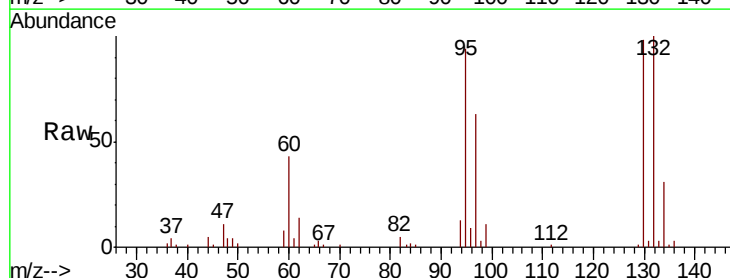
Acq: 14 Aug 2018 19:57

Tgt Ion:130 Resp: 20925

Ion Ratio Lower Upper

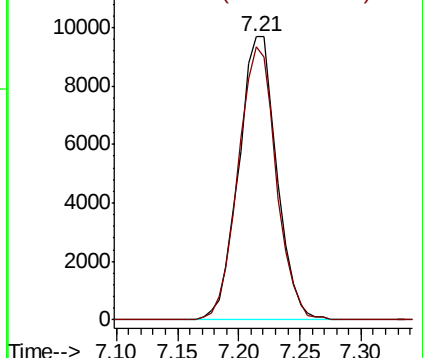
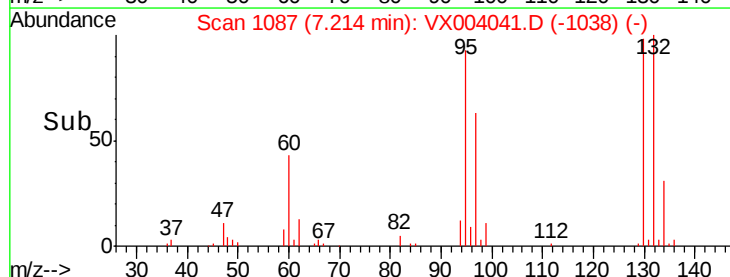
130 100

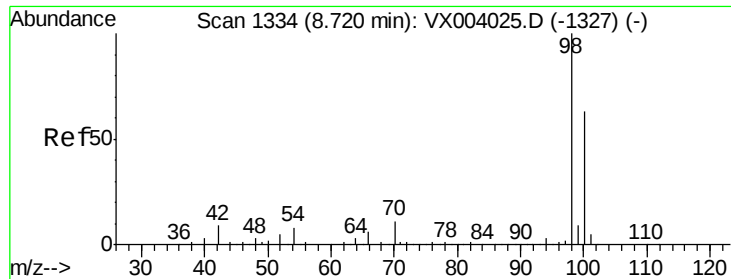
95 96.3 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

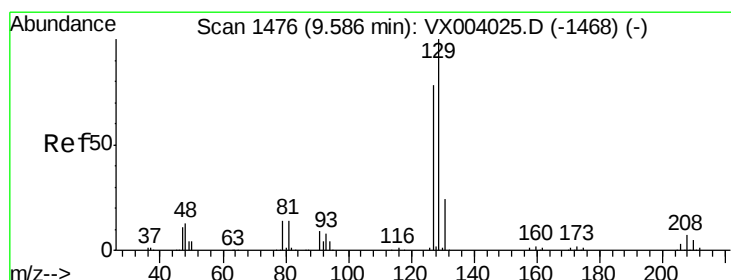
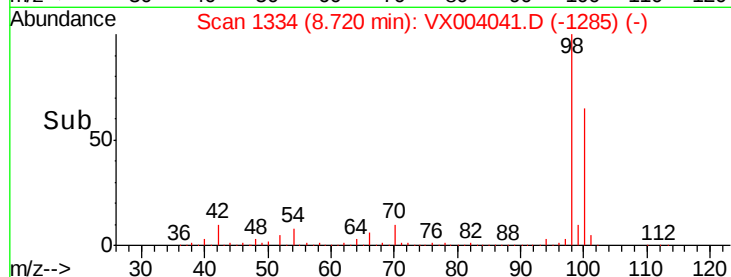
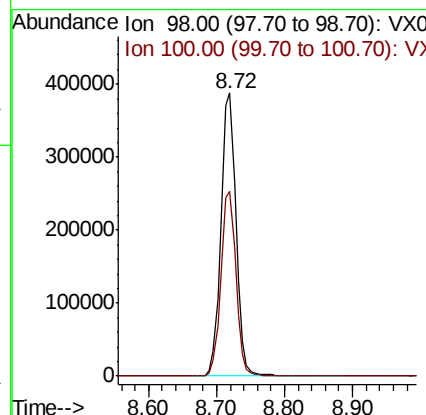
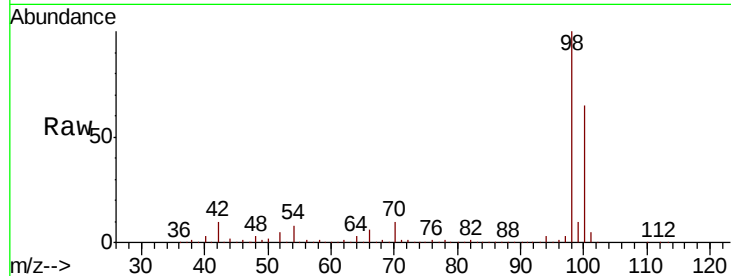




#50
Toluene-d8
Concen: 46.796 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX004041.D
Acq: 14 Aug 2018 19:57

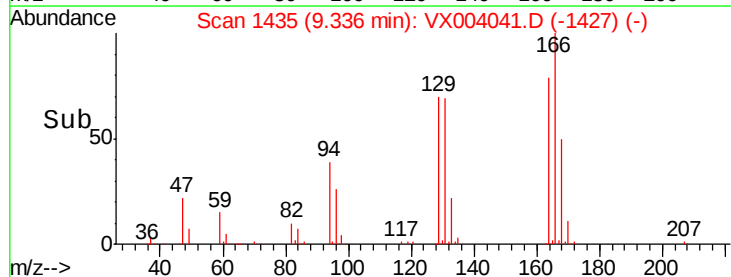
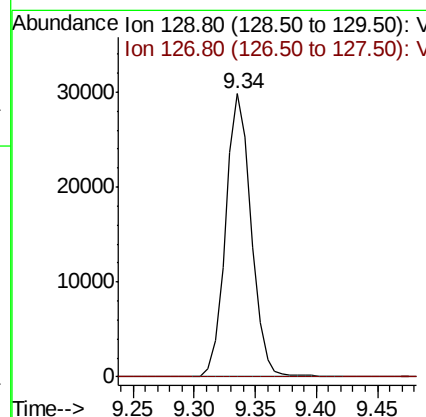
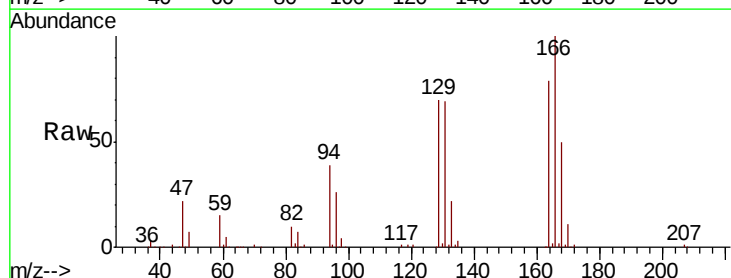
Instrument :
MSVOA_X
ClientSampleId :
DUP1-SRI3

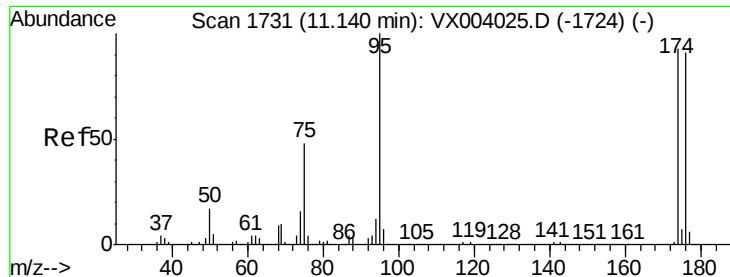
Tgt Ion: 98 Resp: 597790
Ion Ratio Lower Upper
98 100
100 65.5 53.3 79.9



#60
Dibromochloromethane
Concen: 11.922 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX004041.D
Acq: 14 Aug 2018 19:57

Tgt Ion: 129 Resp: 43101
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.3#





#62

4-Bromofluorobenzene

Concen: 43.652 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

DUP1-SRI3

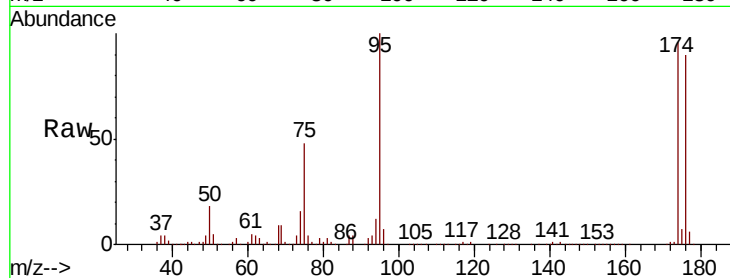
Tgt Ion: 95 Resp: 202248

Ion Ratio Lower Upper

95 100

174 92.8 0.0 182.8

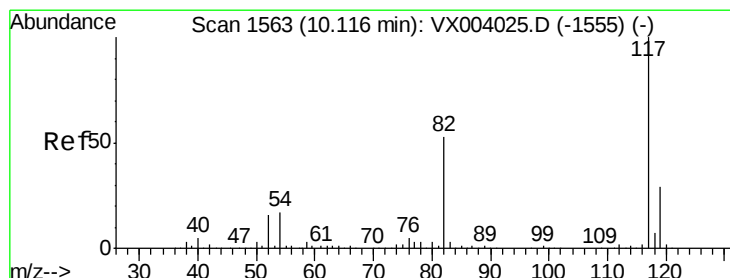
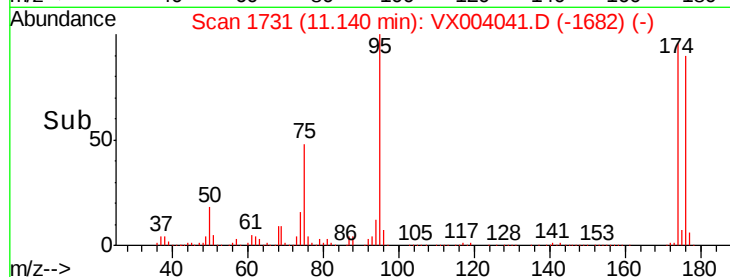
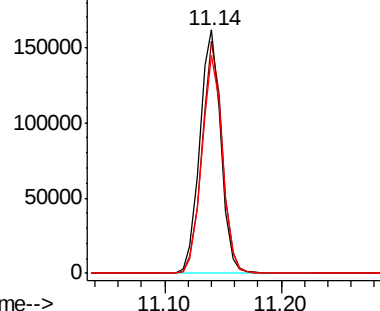
176 88.4 0.0 179.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

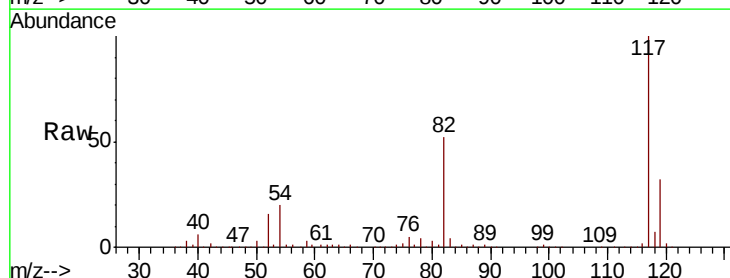
Tgt Ion: 117 Resp: 387760

Ion Ratio Lower Upper

117 100

82 52.4 45.4 68.0

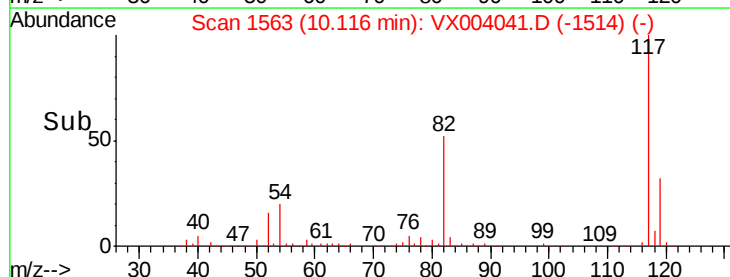
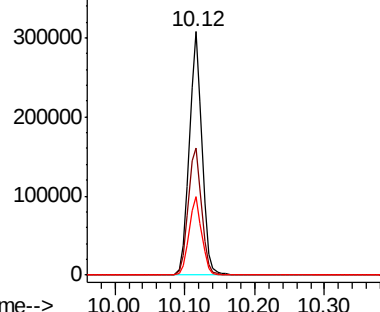
119 32.3 26.6 40.0

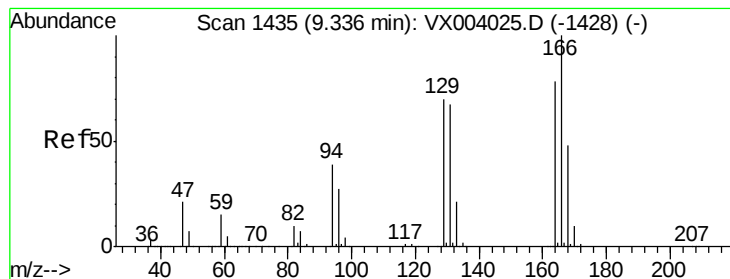


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 13.405 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

DUP1-SRI3

Tgt Ion:164 Resp: 49264

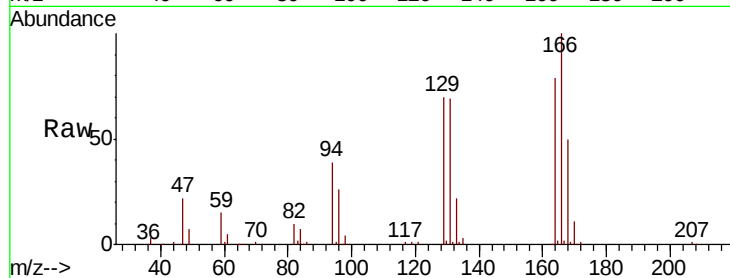
Ion Ratio Lower Upper

164 100

166 126.6 98.0 147.0

129 88.5 64.3 96.5

131 87.0 66.8 100.2

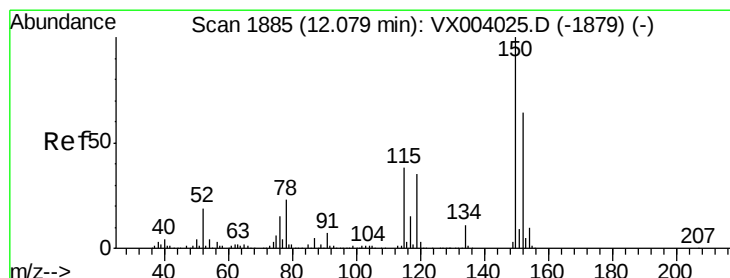
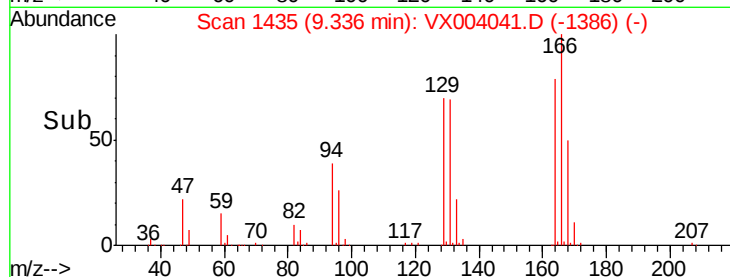
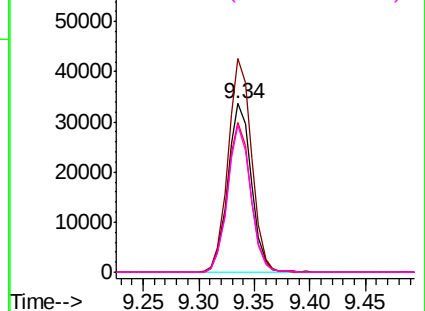


Abundance Ion 163.80 (163.50 to 164.50): V

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# 1885

Delta R.T. -0.00 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

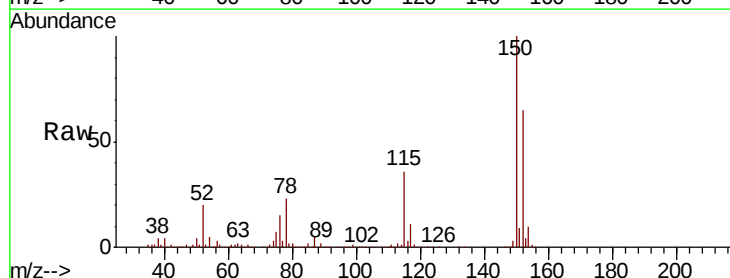
Tgt Ion:152 Resp: 214196

Ion Ratio Lower Upper

152 100

115 55.0 39.1 117.3

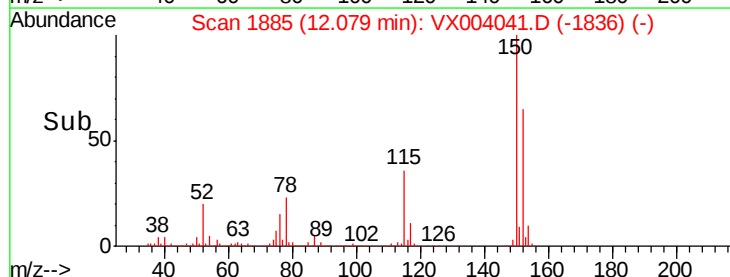
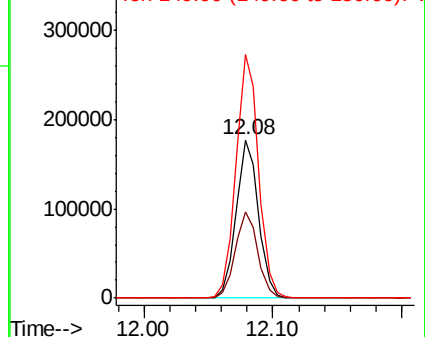
150 155.6 0.0 349.2

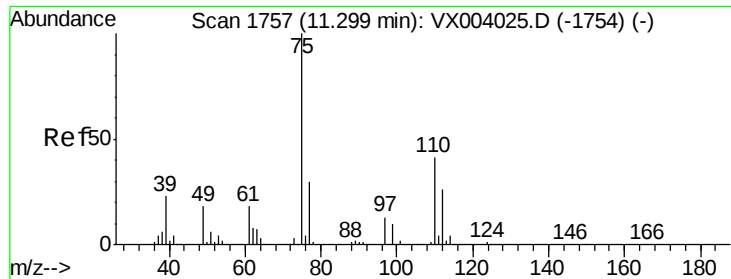


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.800 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

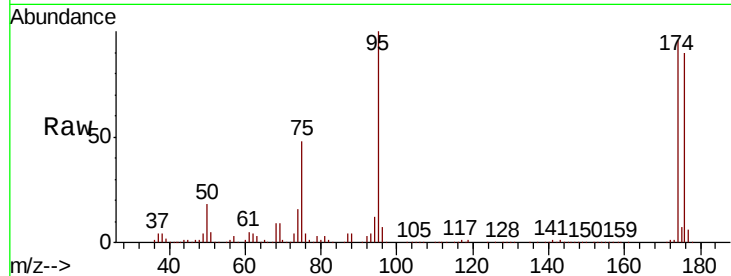
DUP1-SRI3

Tgt Ion: 75 Resp: 97937

Ion Ratio Lower Upper

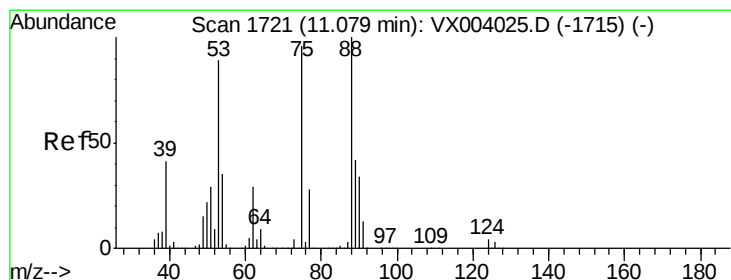
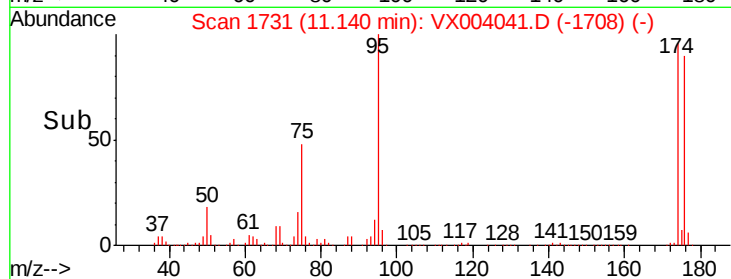
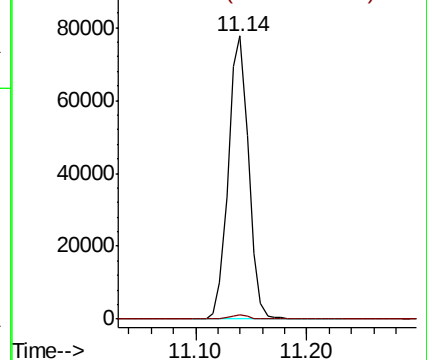
75 100

77 1.4 20.8 62.5#



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: 70.577 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004041.D

Acq: 14 Aug 2018 19:57

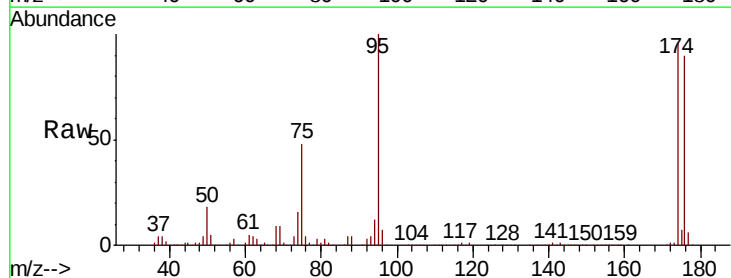
Tgt Ion: 75 Resp: 97937

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

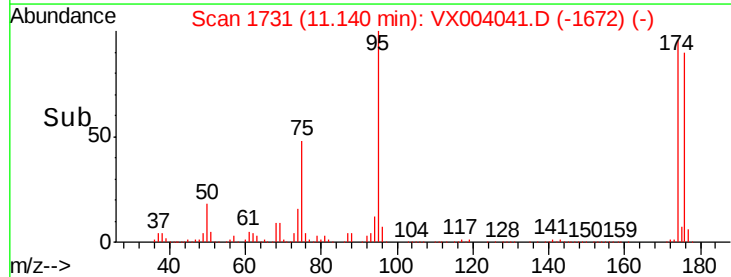
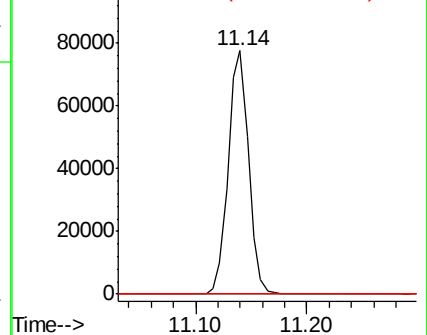
89 0.0 37.8 56.8#

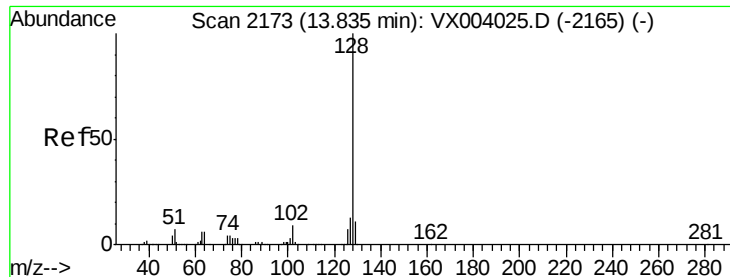


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95
Naphthalene
Concen: 1.188 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004041.D
Acq: 14 Aug 2018 19:57

Instrument :
MSVOA_X
ClientSampleId :
DUP1-SRI3

Tgt Ion:128 Resp: 664
Ion Ratio Lower Upper
128 100
127 15.8 10.2 15.2#
129 13.7 8.8 13.2#

