

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060618\
 Data File : VX002348.D
 Acq On : 06 Jun 2018 13:16
 Operator : JC/MD
 Sample : J3268-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 07 03:21:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	227974	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	336731	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	300216	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	157798	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	161249	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
35) Dibromofluoromethane	5.51	113	119021	44.95	ug/l	0.00
Spiked Amount			Recovery	=	89.90%	
50) Toluene-d8	8.72	98	475456	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
62) 4-Bromofluorobenzene	11.14	95	156801	40.06	ug/l	0.00
Spiked Amount			Recovery	=	80.12%	

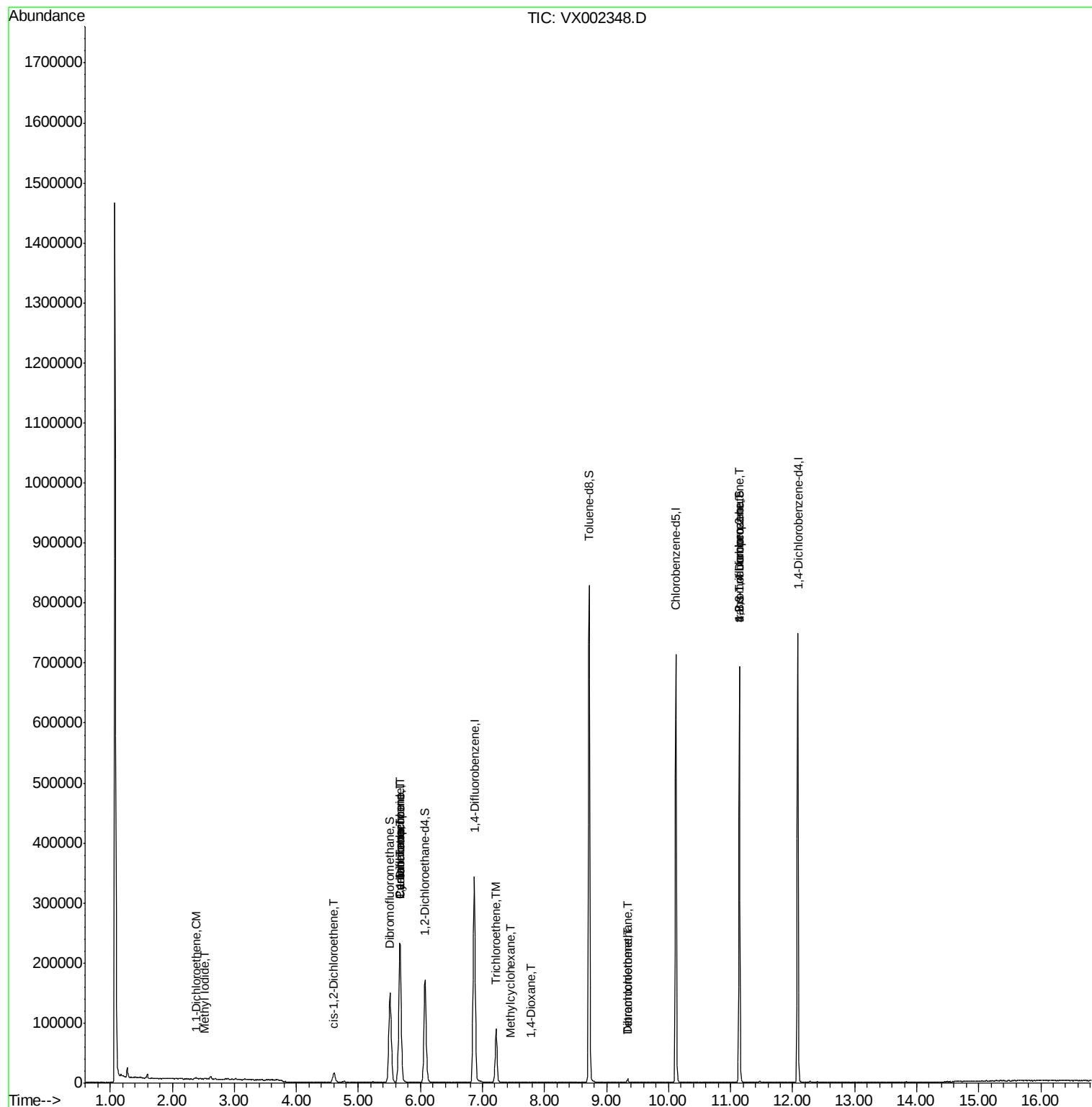
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	560	Below Cal	#	77
5) Bromomethane	1.67	94	1209	Below Cal		87
8) Diethyl Ether	2.42	74	106	Below Cal		69
10) Methyl Iodide	2.53	142	2095	0.61	ug/l	92
11) Tert butyl alcohol	3.07	59	228	Below Cal	#	53
12) 1,1-Dichloroethene	2.38	96	963	0.40	ug/l	97
13) Acrolein	2.29	56	209	Below Cal		99
15) Acrylonitrile	3.14	53	325	Below Cal	#	74
16) Acetone	2.44	43	1420	Below Cal	#	89
18) Methyl Acetate	2.78	43	60	Below Cal	#	55
19) Methyl tert-butyl Ether	3.20	73	155	Below Cal	#	74
20) Methylene Chloride	2.87	84	321	Below Cal	#	60
22) Diisopropyl ether	3.89	45	71	Below Cal	#	22
27) cis-1,2-Dichloroethene	4.60	96	8594	2.95	ug/l	97
28) Bromochloromethane	5.06	49	20	Below Cal	#	13
31) Cyclohexane	5.66	56	4932	1.20	ug/l	37
36) 1,1-Dichloropropene	5.67	75	15679	4.43	ug/l	51
38) Carbon Tetrachloride	5.67	117	21023	5.68	ug/l	16
39) Methylcyclohexane	7.45	83	83	0.28	ug/l	16
44) Trichloroethene	7.22	130	33958	11.27	ug/l	98
49) 1,4-Dioxane	7.77	88	20	0.29	ug/l	1
60) Dibromochloromethane	9.34	129	1091	0.38	ug/l	11
64) Tetrachloroethene	9.34	164	1242	0.40	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	87135	25.17	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	87135	88.21	ug/l	7

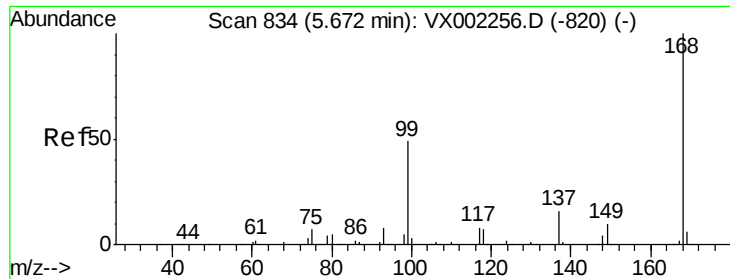
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX060618\
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Instrument :
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ClientSampleId :

Quant Time: Jun 07 03:21:19 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

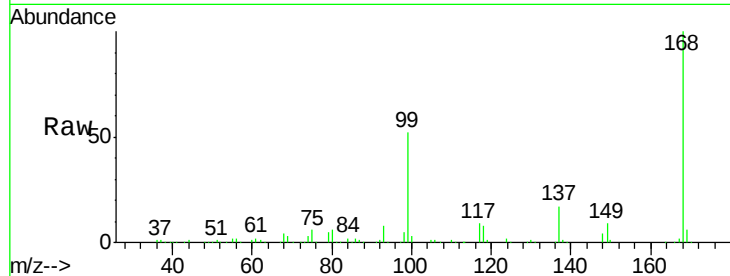
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 227974

Ion Ratio Lower Upper

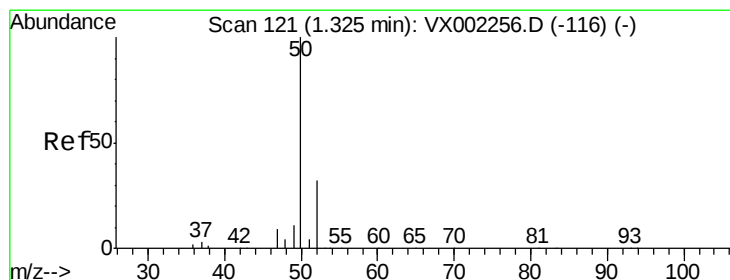
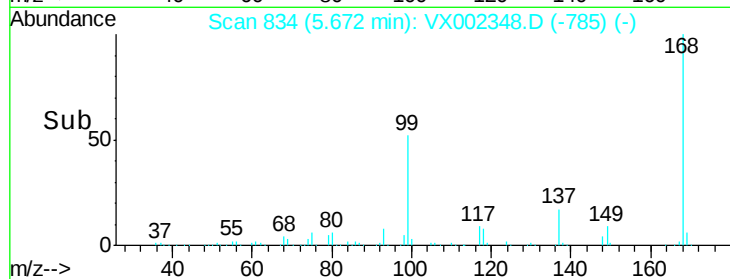
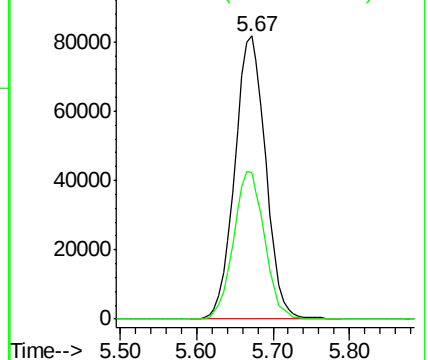
168 100

99 51.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002348.D

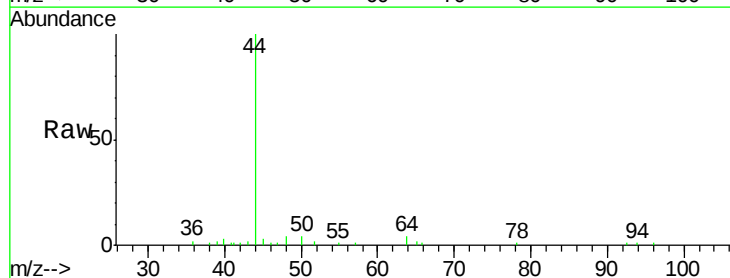
Acq: 06 Jun 2018 13:16

Tgt Ion: 50 Resp: 560

Ion Ratio Lower Upper

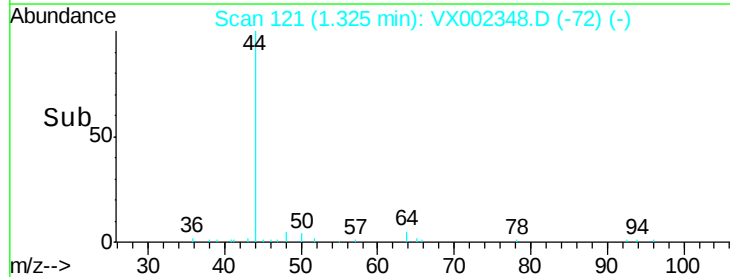
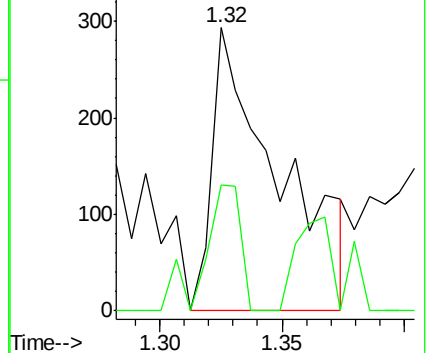
50 100

52 44.7 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: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

Instrument :

MSVOA_X

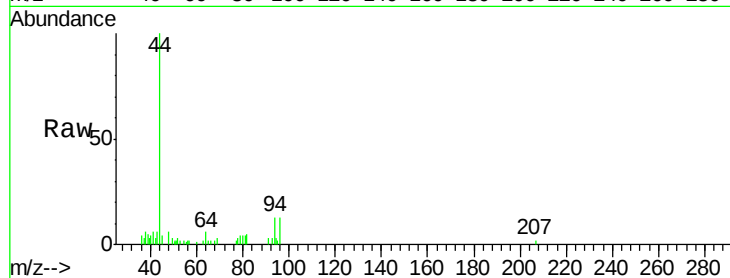
ClientSampled :

Tot Ion: 94 Resp: 1209

Ion Ratio Lower Upper

94 100

96 80.7 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.67

400

300

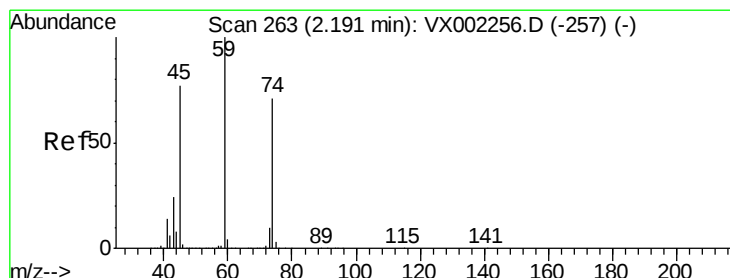
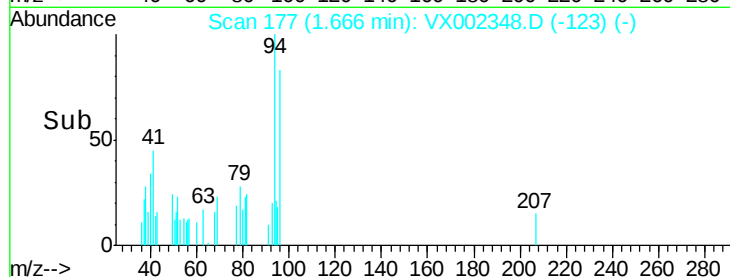
200

100

0

1.60 1.65 1.70 1.75

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.42 min Scan# 300

Delta R.T. 0.23 min

Lab File: VX002348.D

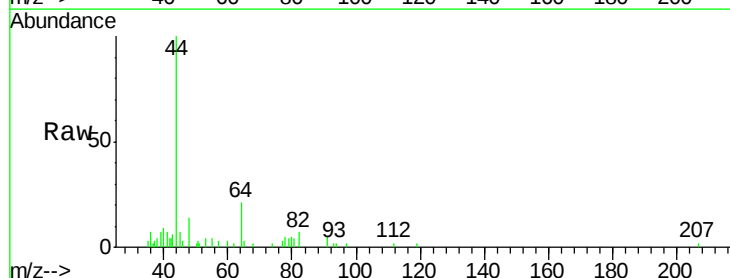
Acq: 06 Jun 2018 13:16

Tgt Ion: 74 Resp: 106

Ion Ratio Lower Upper

74 100

45 138.7 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

250

200

150

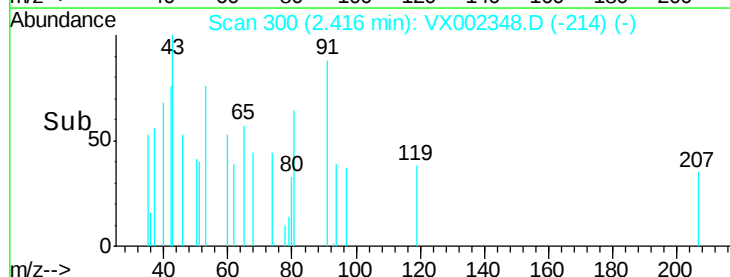
100

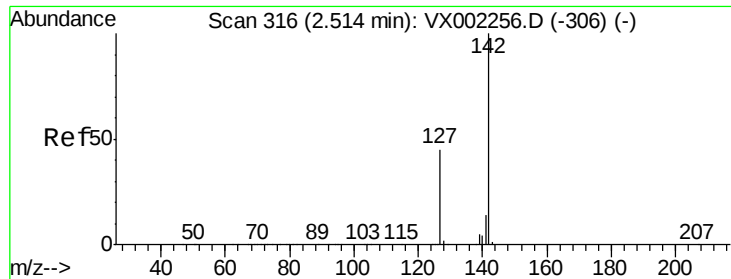
50

0

2.38 2.40 2.42 2.44

Time-->

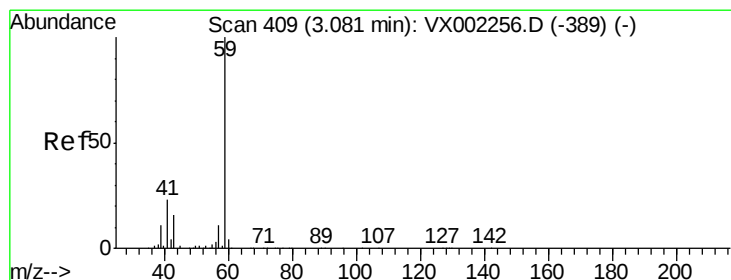
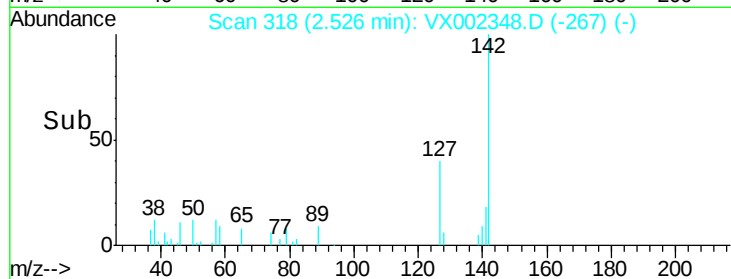
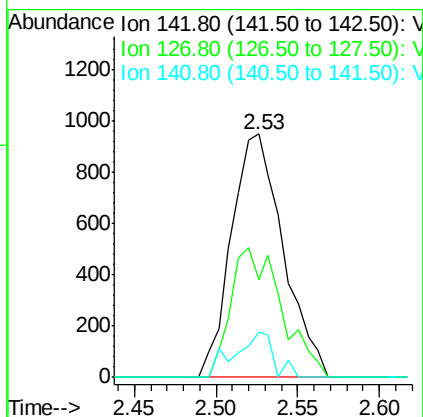
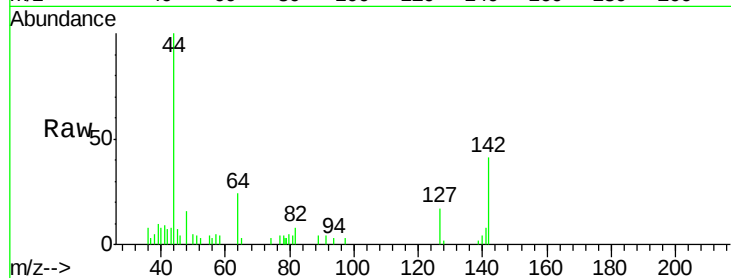




#10
Methyl Iodide
Concen: 0.61 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

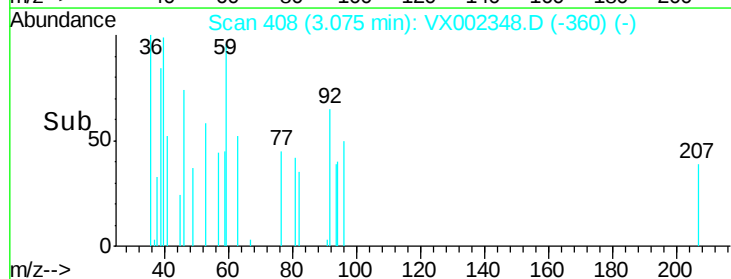
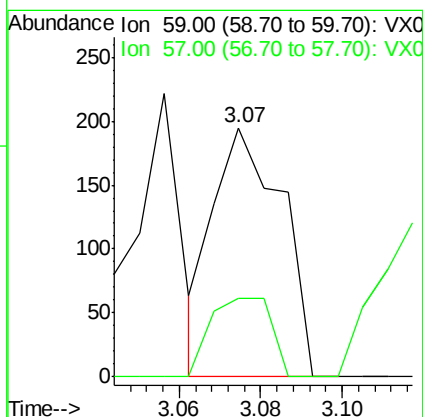
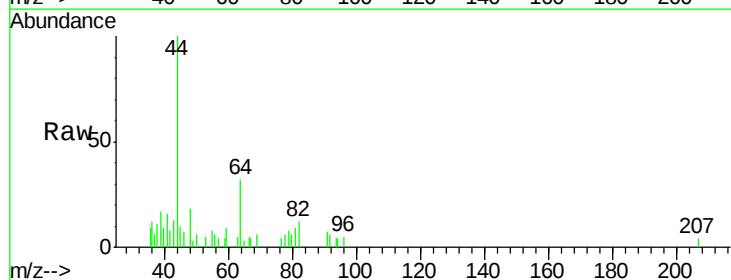
Instrument :
MSVOA_X
ClientSampleId :

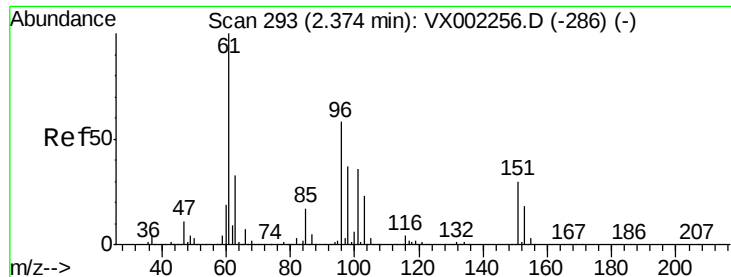
Tot Ion:142 Resp: 2095
Ion Ratio Lower Upper
142 100
127 52.2 36.6 55.0
141 13.9 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

Tgt Ion: 59 Resp: 228
Ion Ratio Lower Upper
59 100
57 27.6 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 0.40 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

Instrument :

MSVOA_X

ClientSampled :

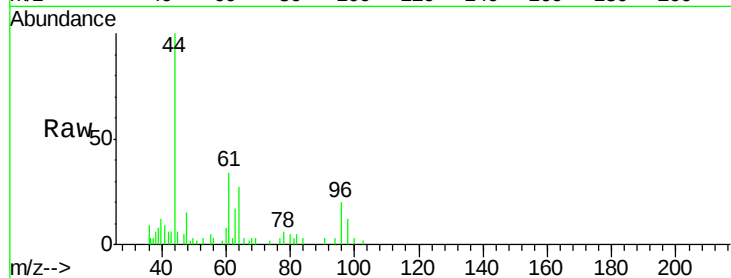
Tot Ion: 96 Resp: 963

Ion Ratio Lower Upper

96 100

61 169.4 137.9 206.9

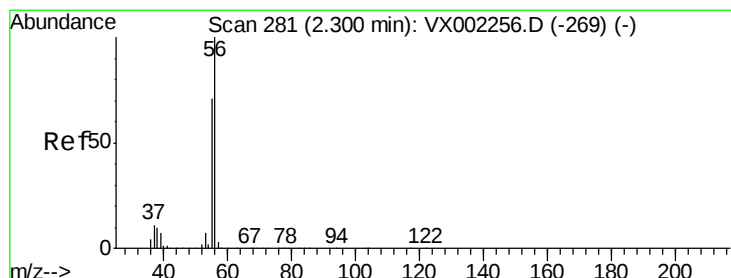
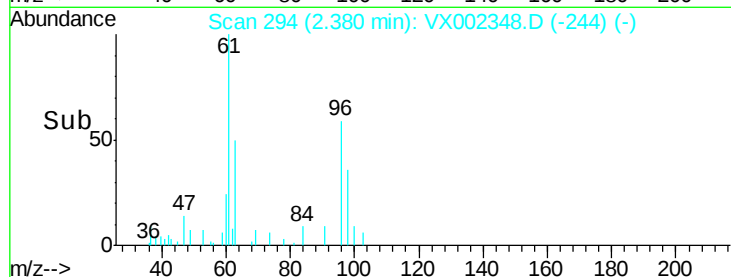
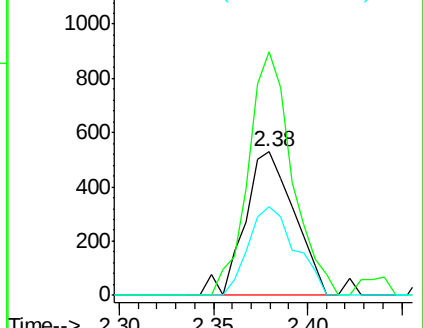
98 61.7 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002348.D

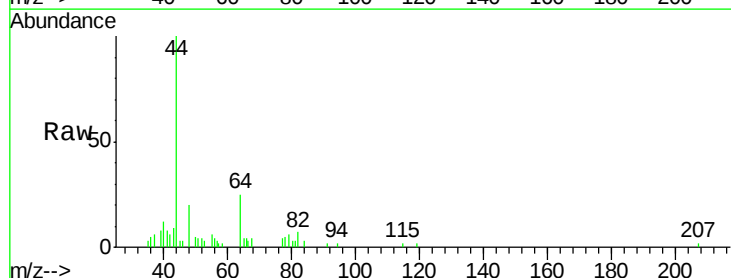
Acq: 06 Jun 2018 13:16

Tgt Ion: 56 Resp: 209

Ion Ratio Lower Upper

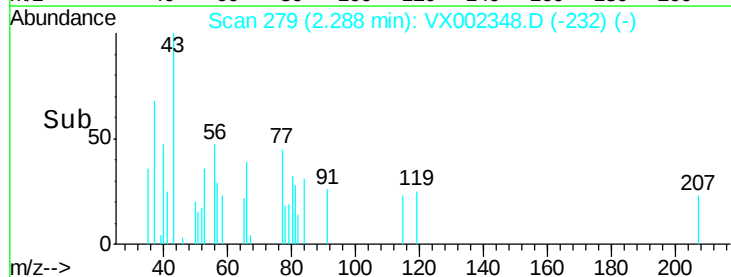
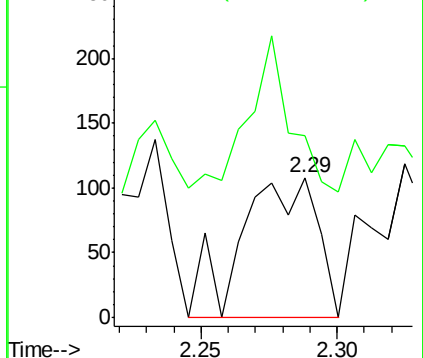
56 100

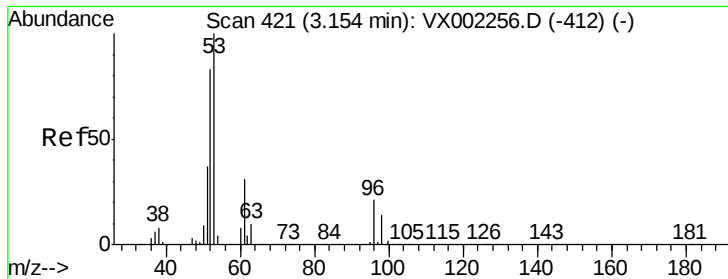
55 71.8 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

Instrument :

MSVOA_X

ClientSampled :

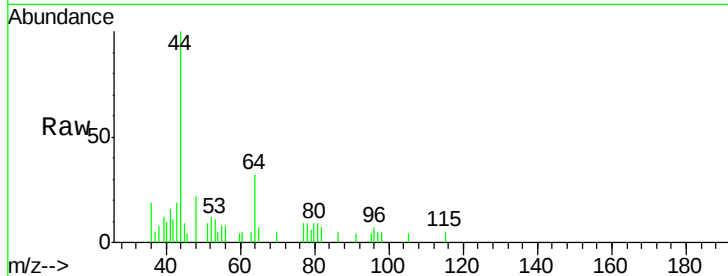
Tot Ion: 53 Resp: 325

Ion Ratio Lower Upper

53 100

52 58.8 66.7 100.1#

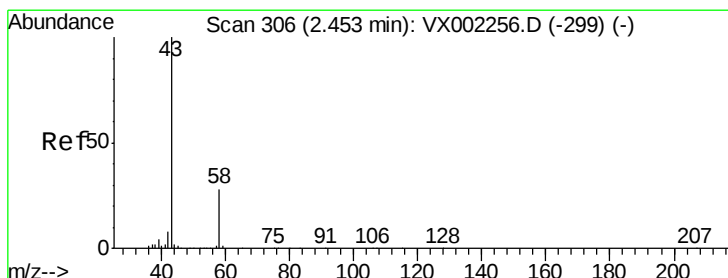
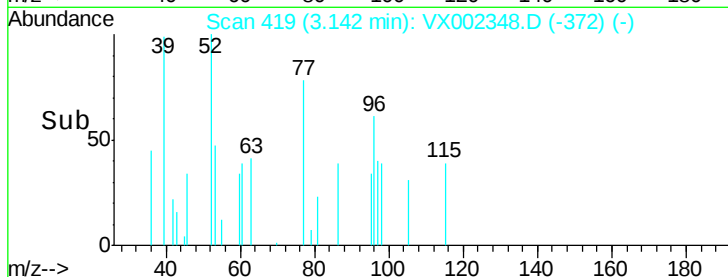
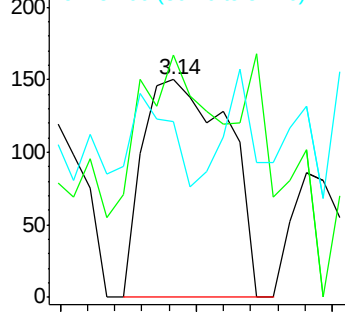
51 24.3 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX002348.D

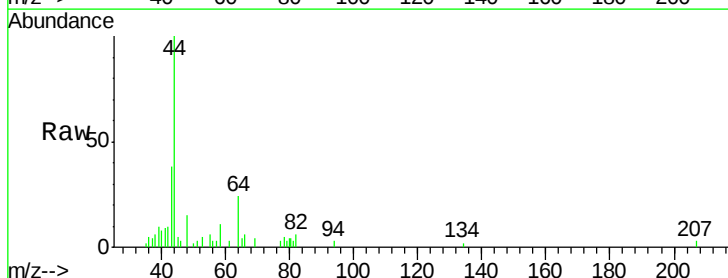
Acq: 06 Jun 2018 13:16

Tgt Ion: 43 Resp: 1420

Ion Ratio Lower Upper

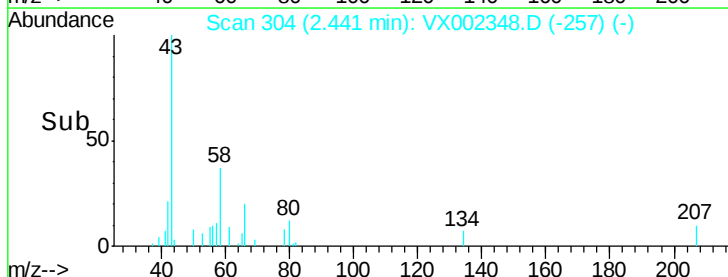
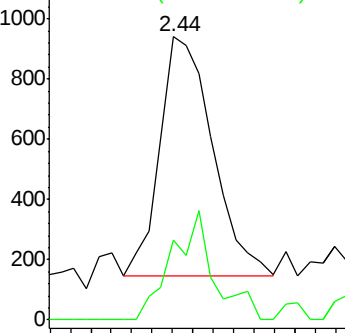
43 100

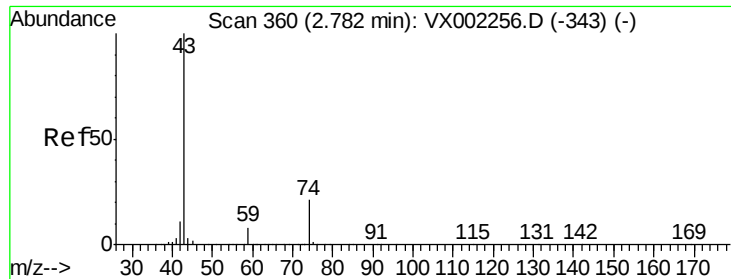
58 33.5 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

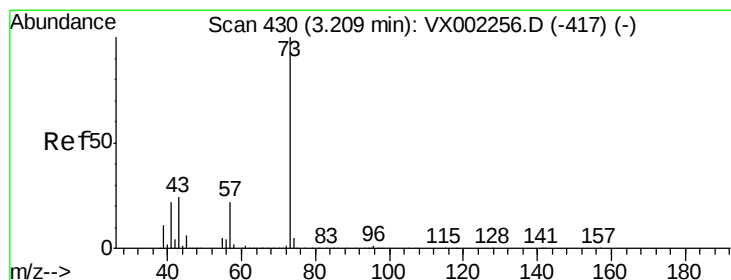
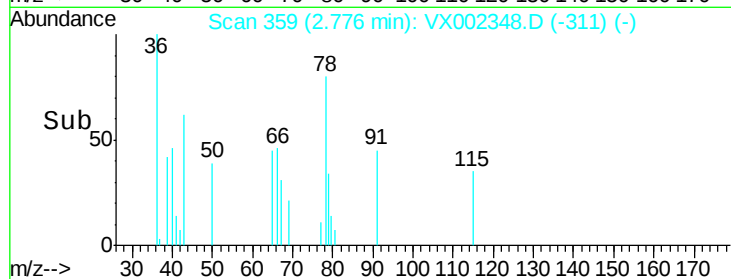
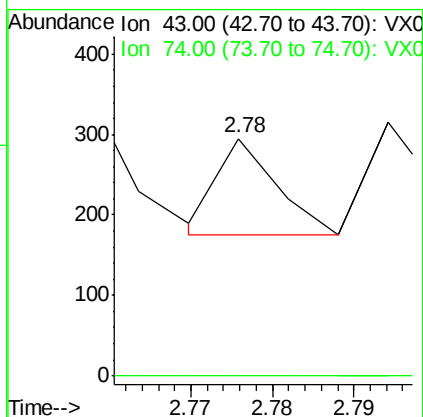
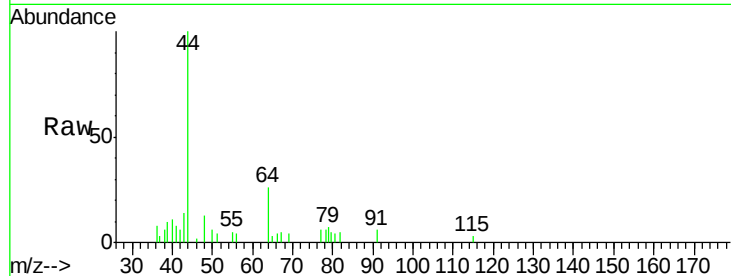




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

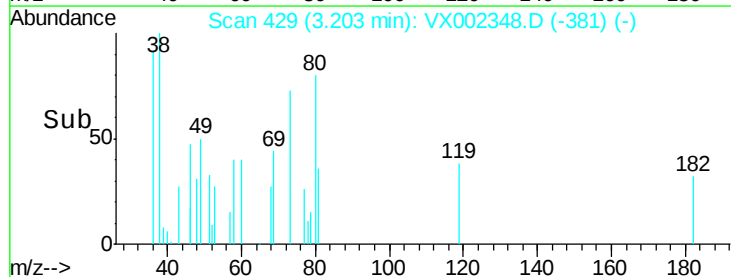
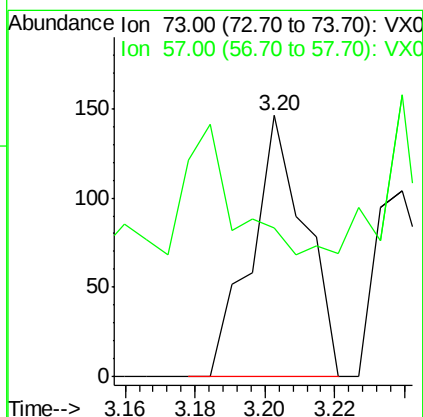
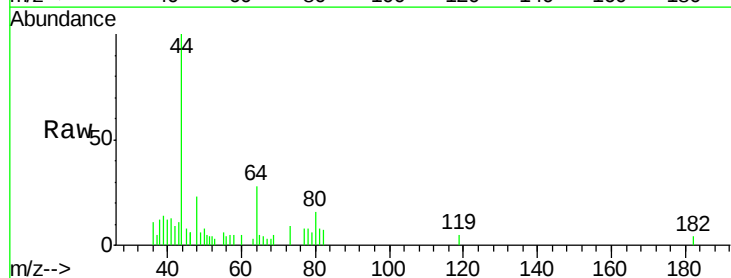
Instrument :
MSVOA_X
ClientSampled :

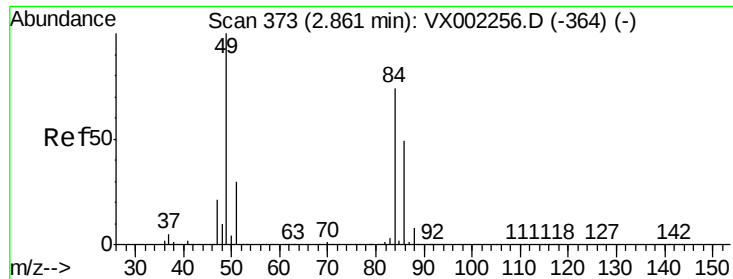
Tot Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

Tgt Ion: 73 Resp: 155
Ion Ratio Lower Upper
73 100
57 9.6 17.7 26.5#

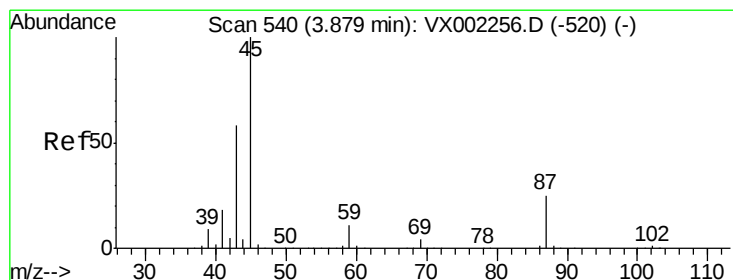
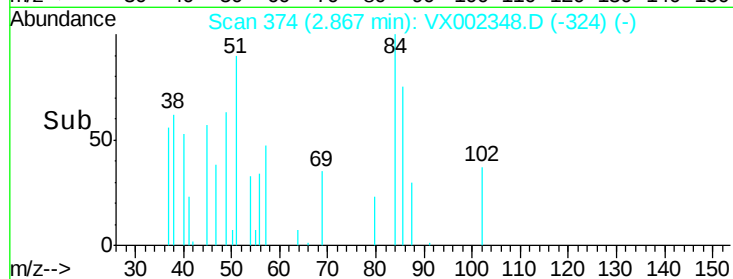
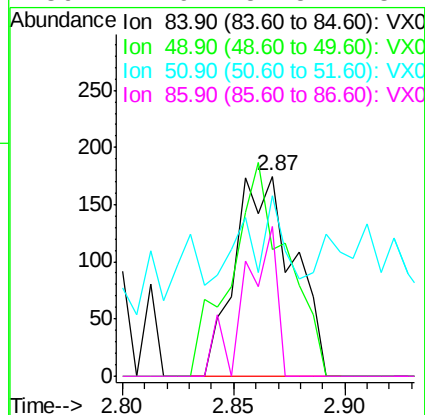
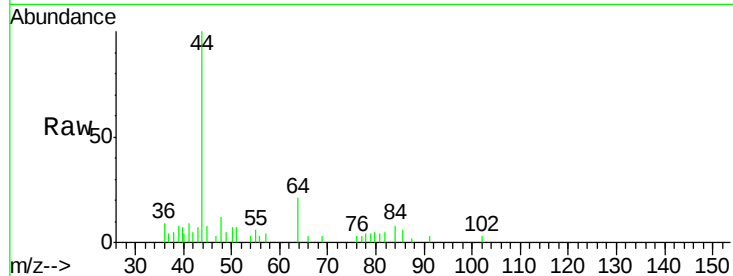




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

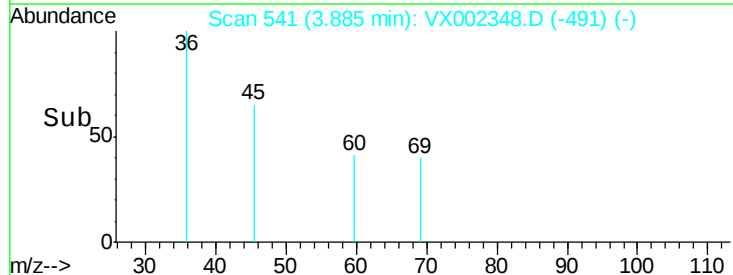
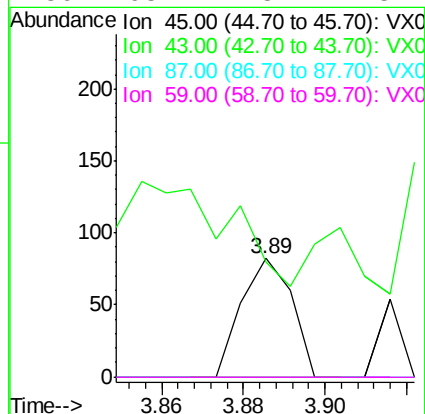
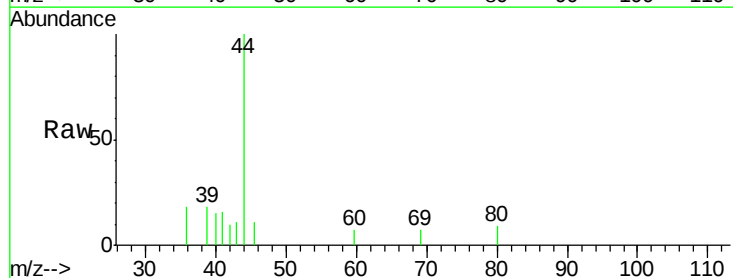
Instrument :
MSVOA_X
ClientSampleId :

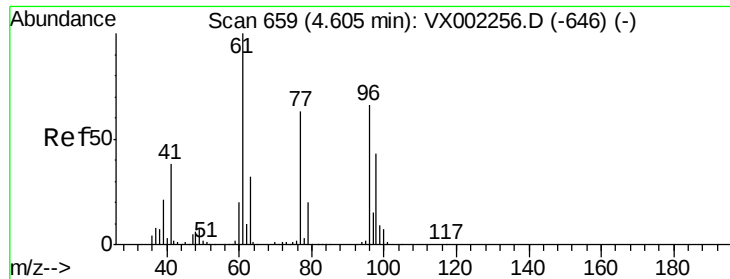
Tot Ion: 84 Resp: 321
Ion Ratio Lower Upper
84 100
49 63.4 107.8 161.6#
51 28.6 32.8 49.2#
86 74.9 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 541
Delta R.T. 0.01 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

Tgt Ion: 45 Resp: 71
Ion Ratio Lower Upper
45 100
43 0.0 46.8 70.2#
87 0.0 20.2 30.4#
59 63.4 8.7 13.1#



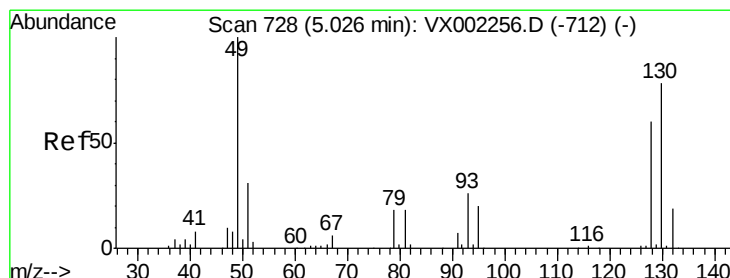
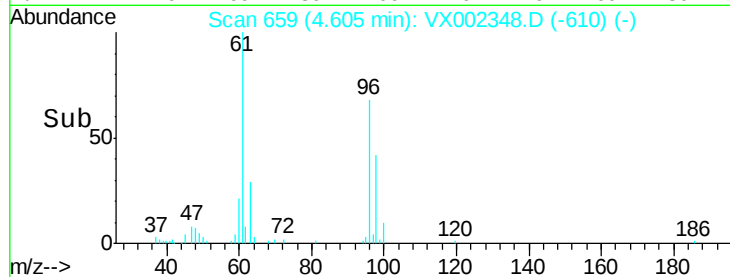
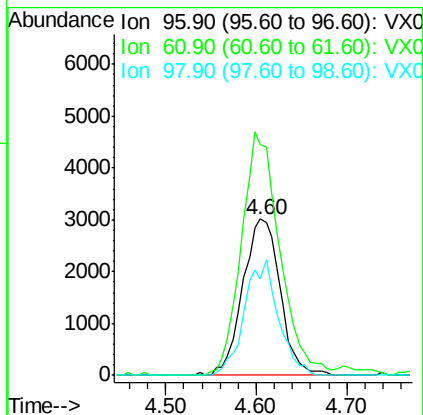
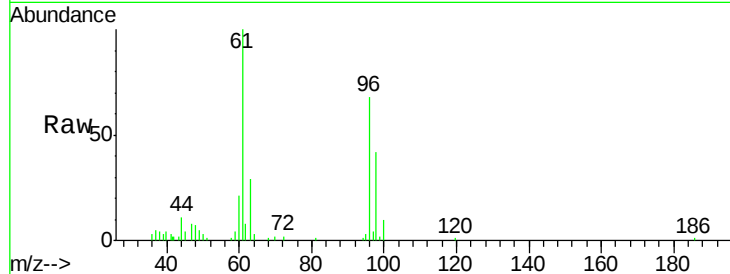


#27

cis-1,2-Dichloroethene
 Concen: 2.95 ug/l
 RT: 4.60 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VX002348.D
 Acq: 06 Jun 2018 13:16

Instrument :
 MSVOA_X
 ClientSampled :

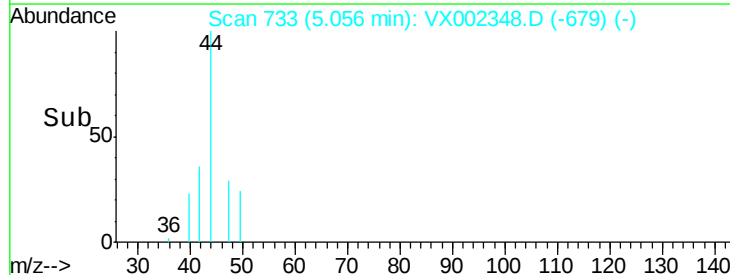
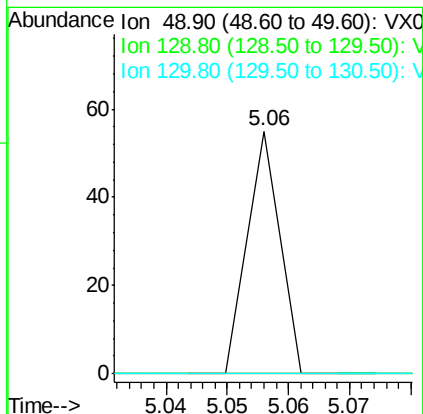
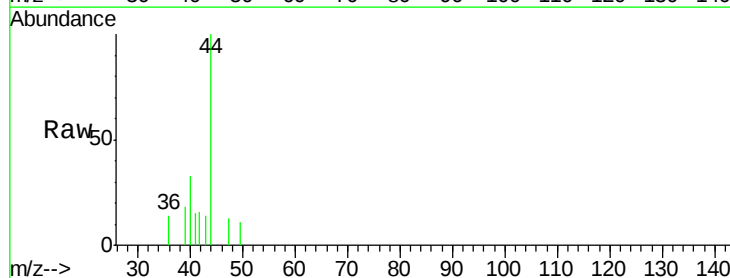
Tot Ion: 96 Resp: 8594
 Ion Ratio Lower Upper
 96 100
 61 160.2 0.0 330.2
 98 67.0 0.0 130.2

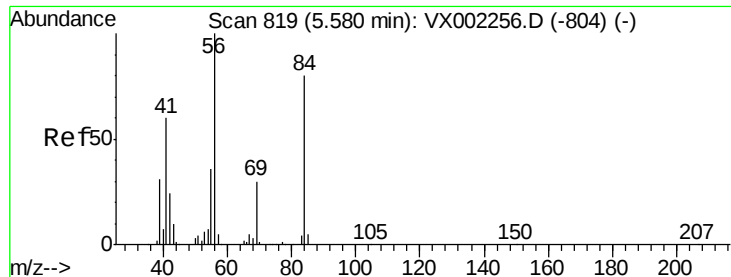


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.06 min Scan# 733
 Delta R.T. 0.03 min
 Lab File: VX002348.D
 Acq: 06 Jun 2018 13:16

Tgt Ion: 49 Resp: 20
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.2
 130 0.0 61.2 91.8#





#31

Cyclohexane

Concen: 1.20 ug/l

RT: 5.66 min Scan# 832

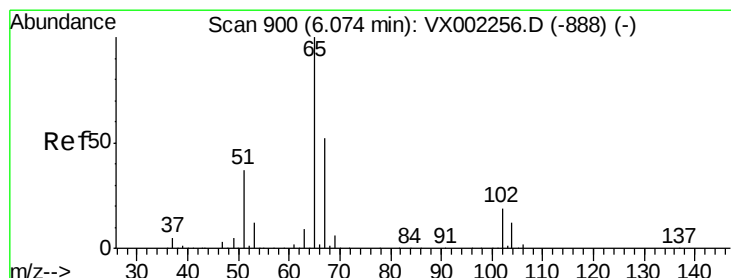
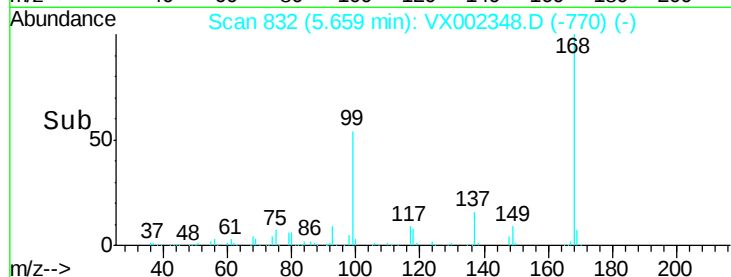
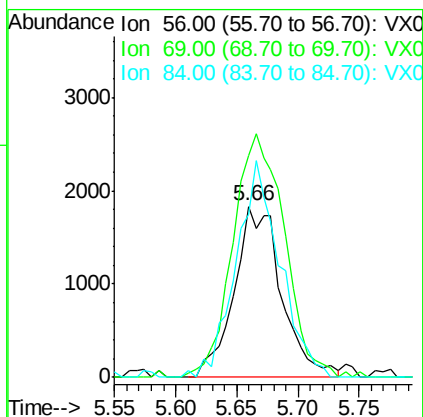
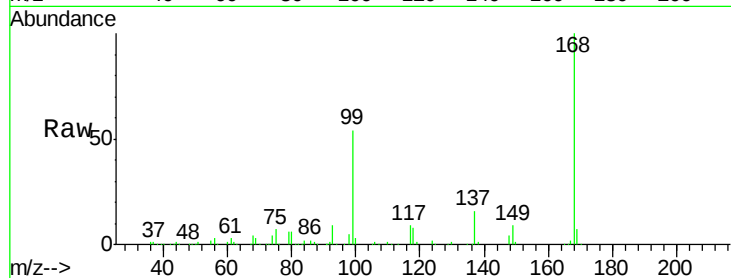
Delta R.T. 0.08 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	56	Resp	4932
Ion	Ratio	Lower	Upper
56	100		
69	129.8	23.7	35.5#
84	95.3	64.1	96.1



#33

1,2-Dichloroethane-d4

Concen: 49.42 ug/l

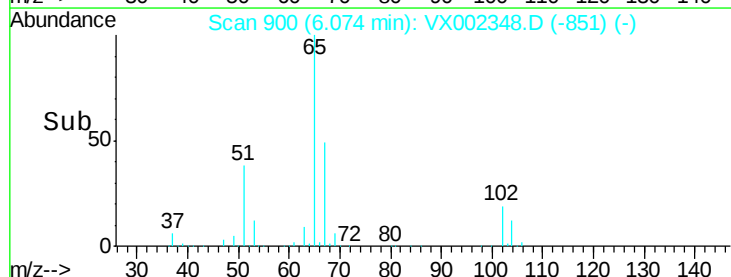
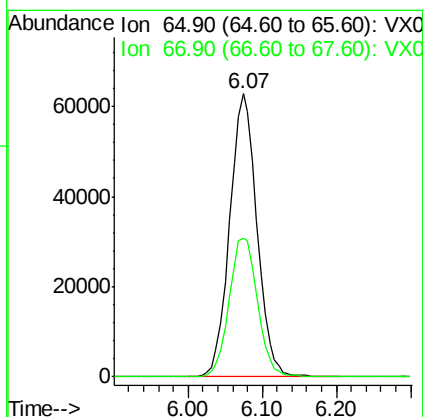
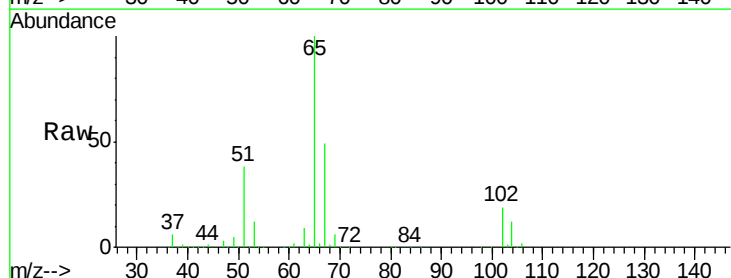
RT: 6.07 min Scan# 900

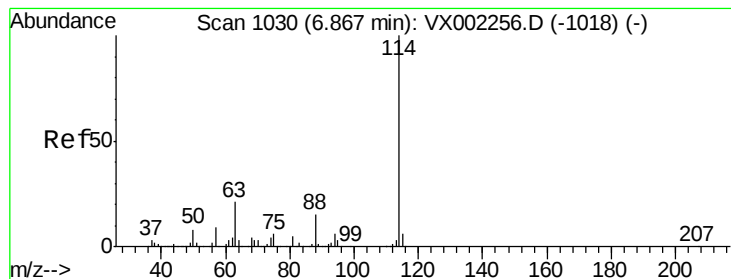
Delta R.T. 0.00 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

Tgt Ion	65	Resp	161249
Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

Instrument :

MSVOA_X

ClientSampleId :

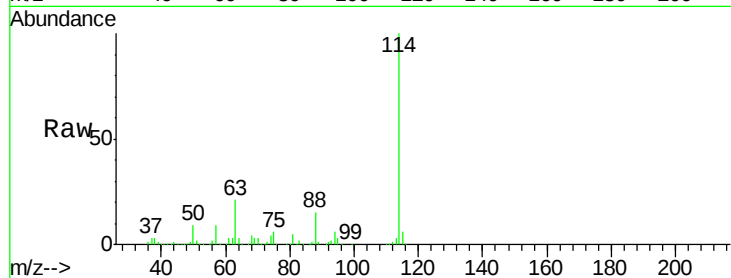
Tot Ion:114 Resp: 336731

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

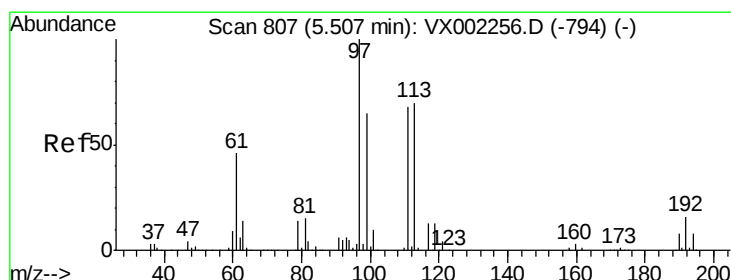
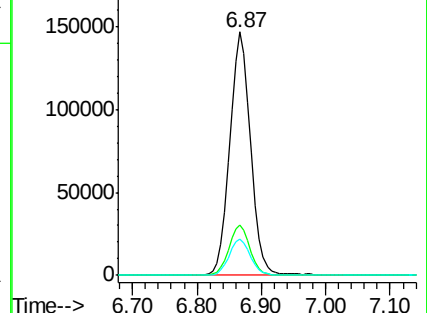
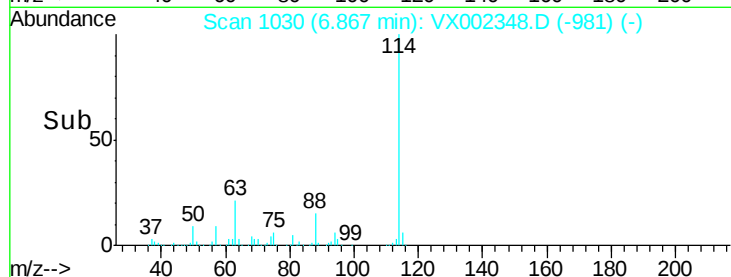
88 14.9 0.0 30.0



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: 44.95 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

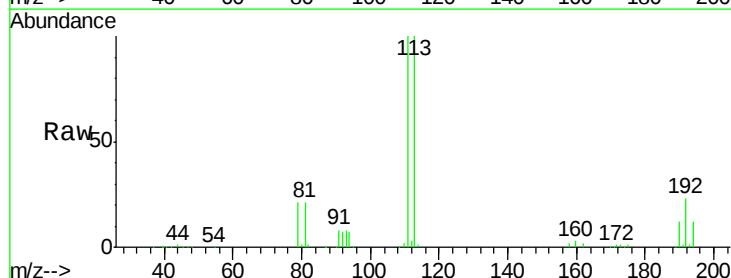
Tgt Ion:113 Resp: 119021

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

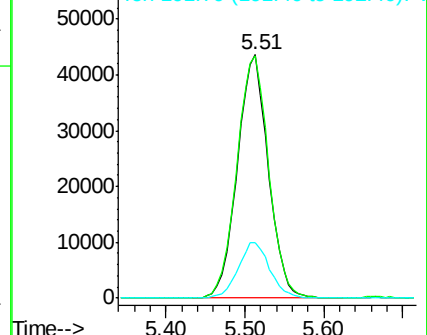
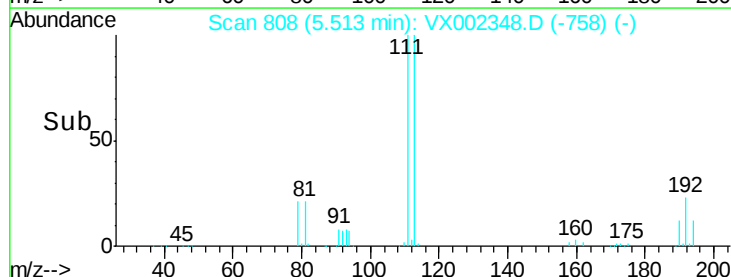
192 23.2 19.1 28.7

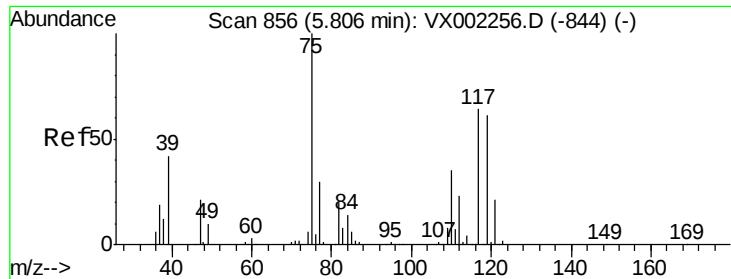


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

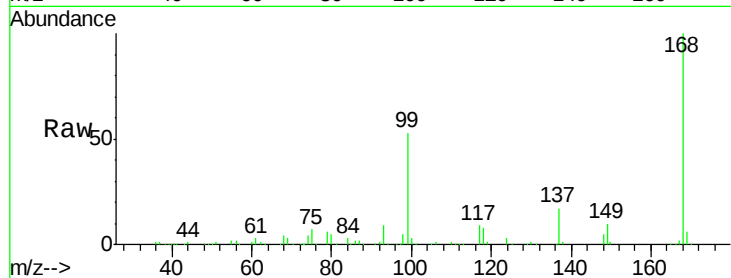




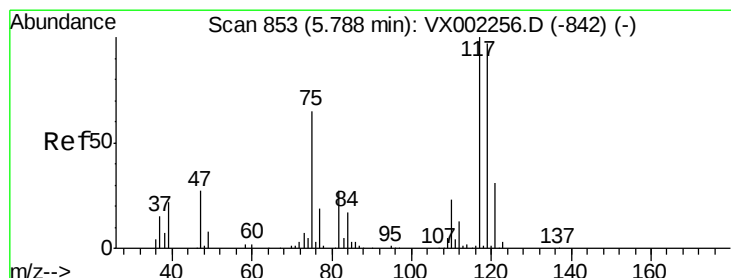
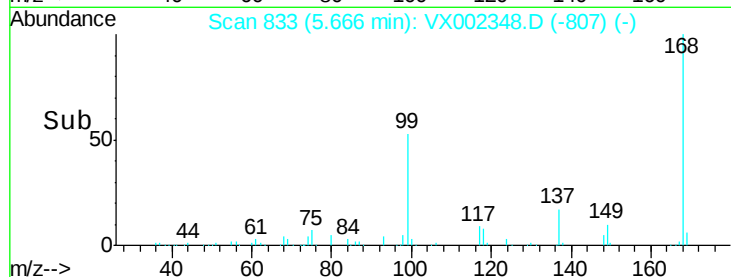
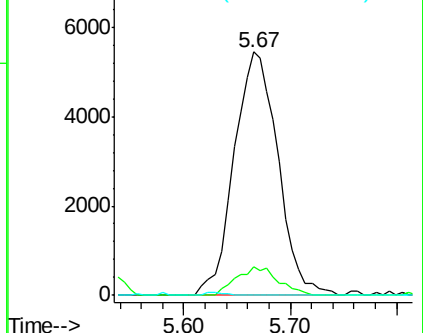
#36
 1,1-Dichloropropene
 Concen: 4.43 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002348.D
 Acq: 06 Jun 2018 13:16

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 15679
 Ion Ratio Lower Upper
 75 100
 110 11.2 18.1 54.4#
 77 0.0 24.3 36.5#

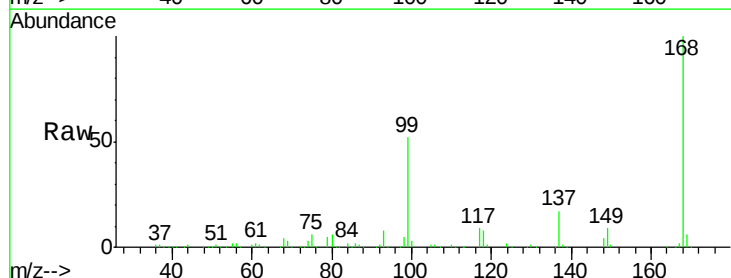


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

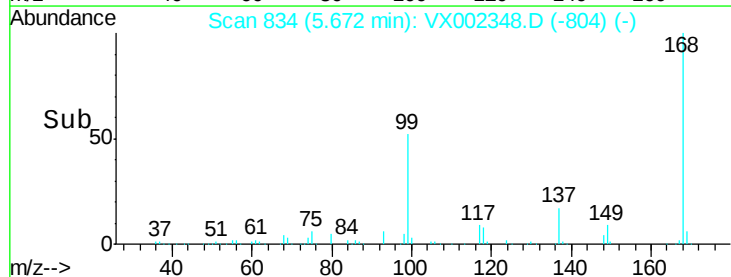
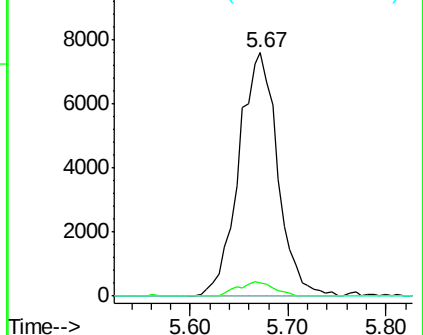


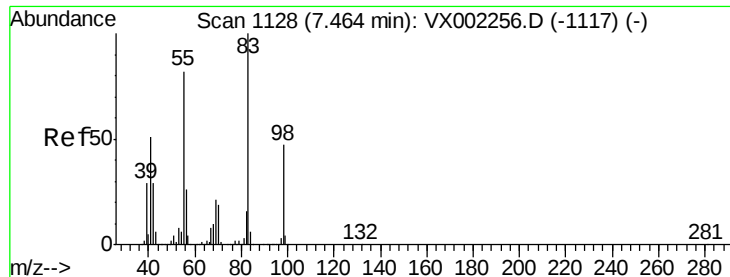
#38
 Carbon Tetrachloride
 Concen: 5.68 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002348.D
 Acq: 06 Jun 2018 13:16

Tgt Ion: 117 Resp: 21023
 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

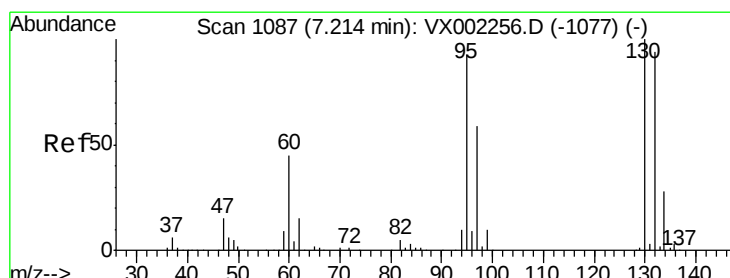
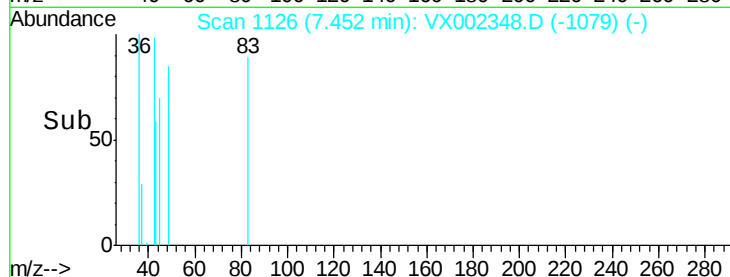
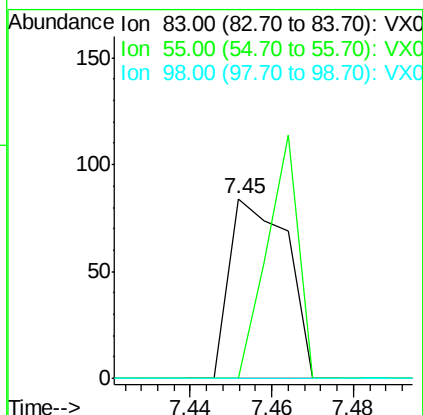
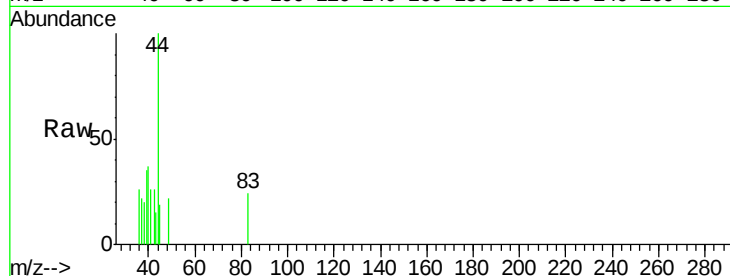




#39
Methylcyclohexane
Concen: 0.28 ug/l
RT: 7.45 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

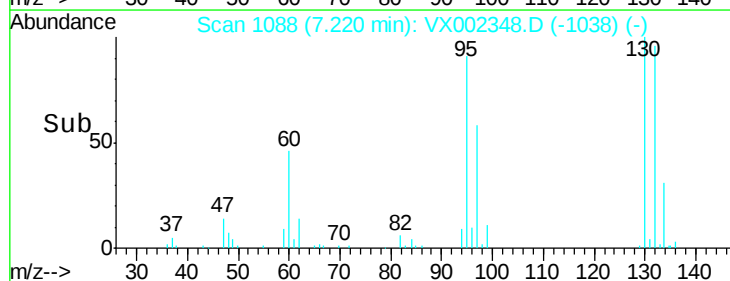
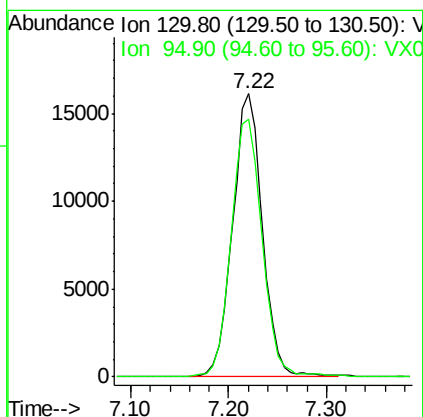
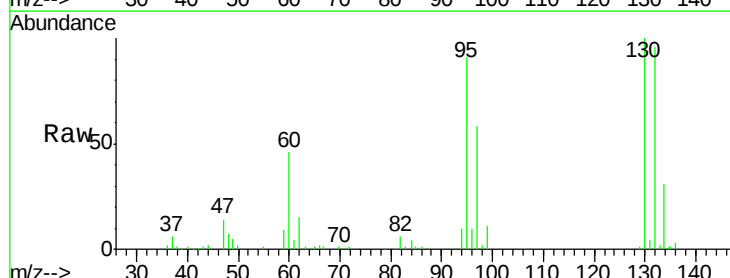
Instrument :
MSVOA_X
ClientSampled :

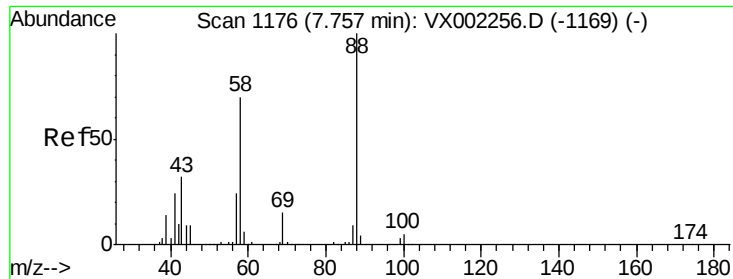
Tot Ion: 83 Resp: 83
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 0.0 37.4 56.0#



#44
Trichloroethene
Concen: 11.27 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

Tgt Ion:130 Resp: 33958
Ion Ratio Lower Upper
130 100
95 91.1 0.0 185.4





#49

1,4-Dioxane

Concen: 0.29 ug/l

RT: 7.77 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

Instrument :

MSVOA_X

ClientSampleId :

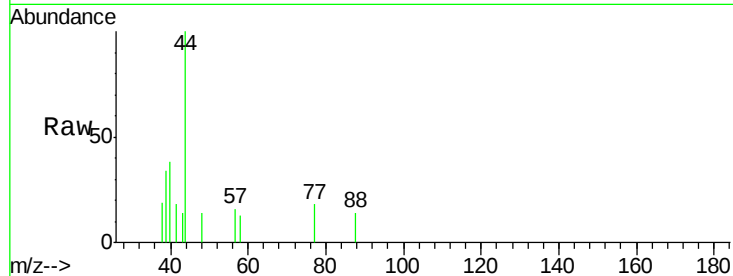
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 100.0 29.8 44.6#

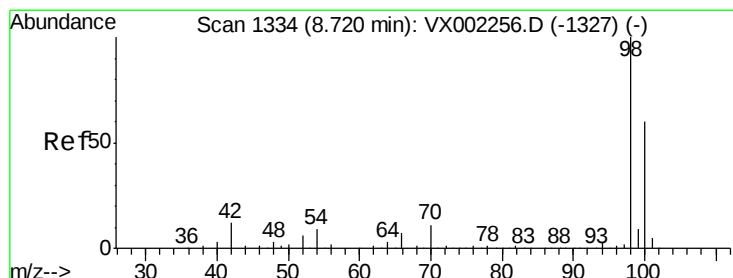
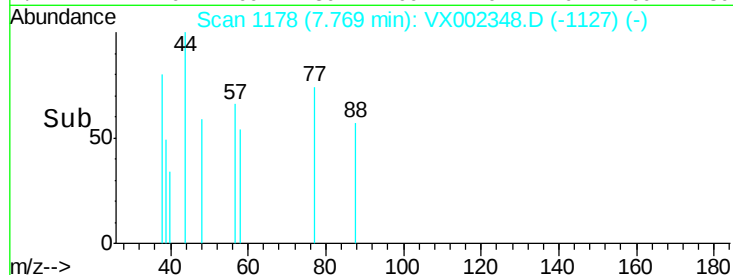
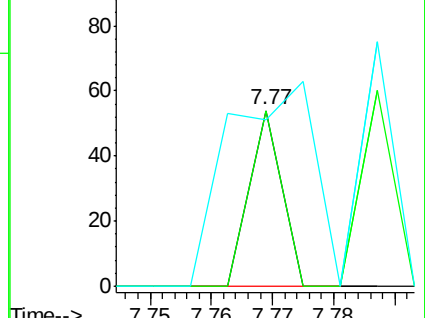
58 305.0 57.1 85.7#



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: 46.84 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002348.D

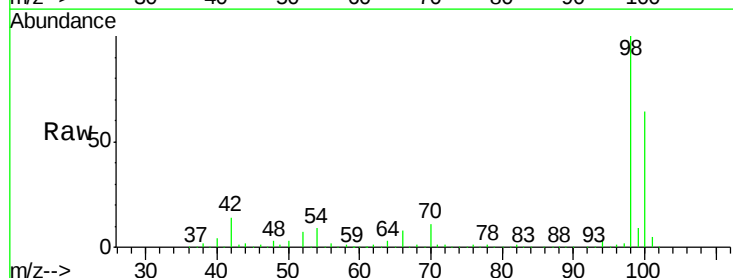
Acq: 06 Jun 2018 13:16

Tgt Ion: 98 Resp: 475456

Ion Ratio Lower Upper

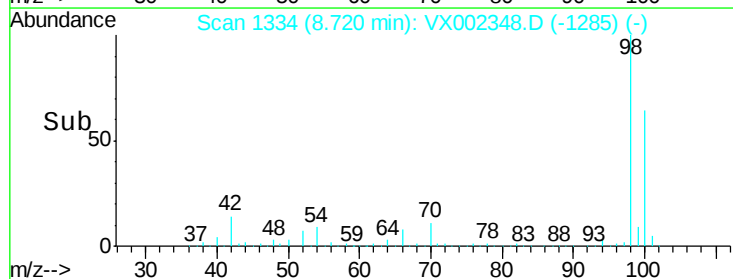
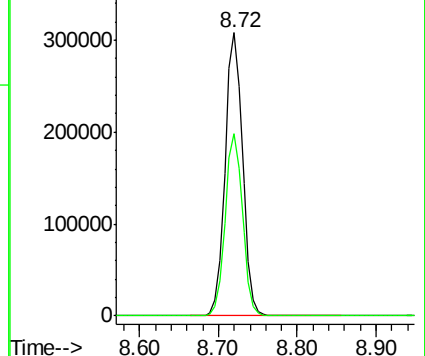
98 100

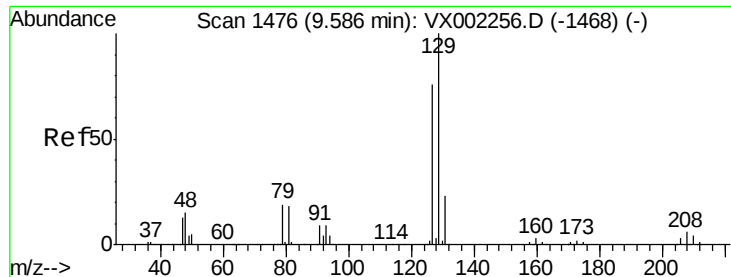
100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 0.38 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

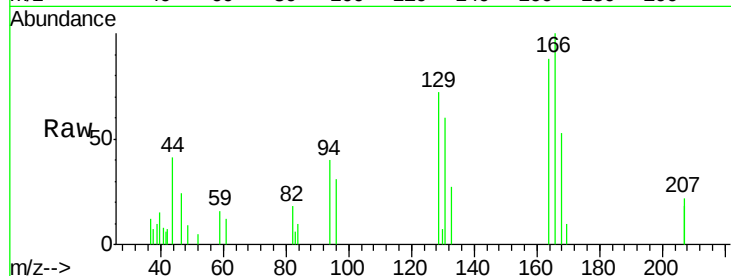
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 1091

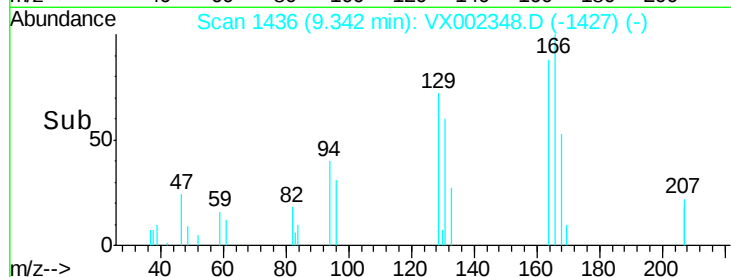
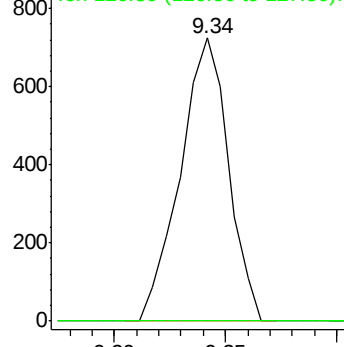
Ion Ratio Lower Upper

129 100

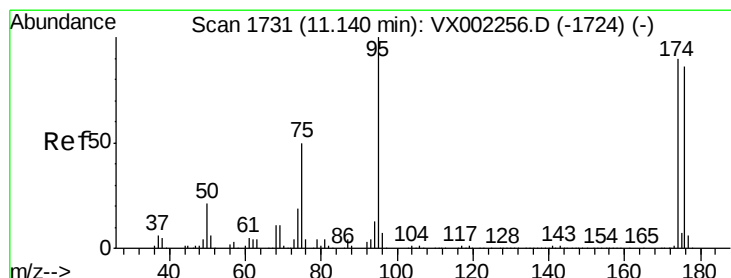
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 40.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

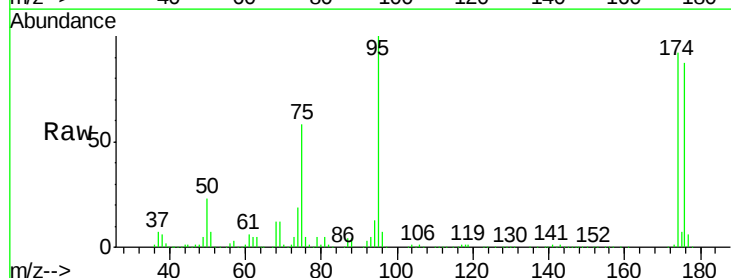
Tgt Ion: 95 Resp: 156801

Ion Ratio Lower Upper

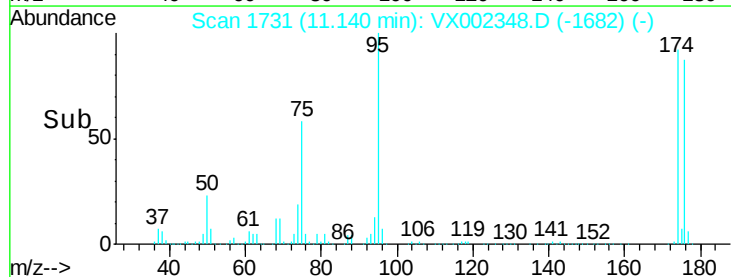
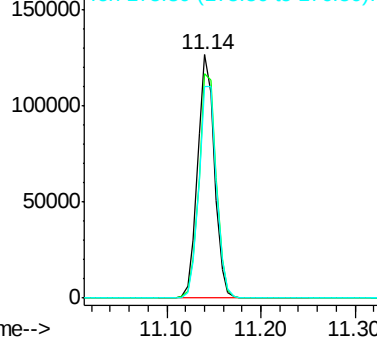
95 100

174 94.9 0.0 187.4

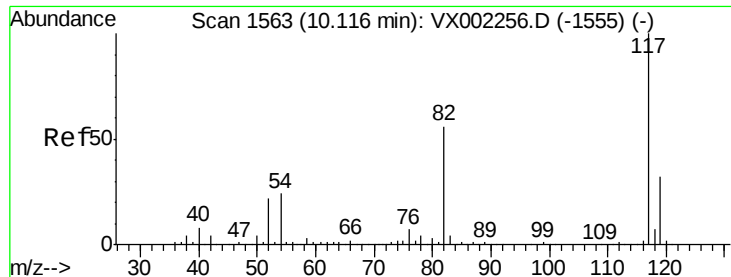
176 91.3 0.0 181.0



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



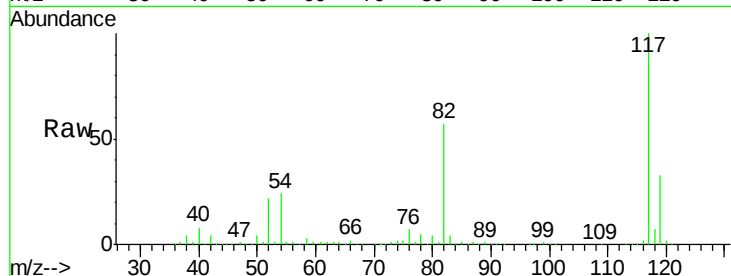
Time-->



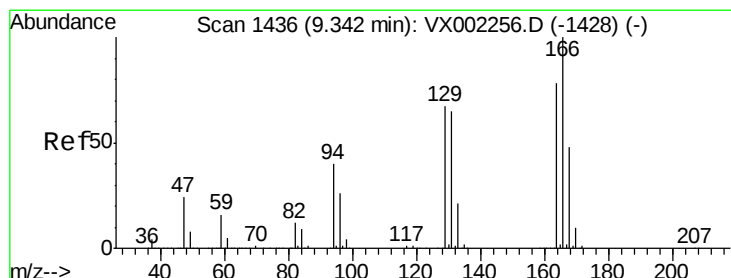
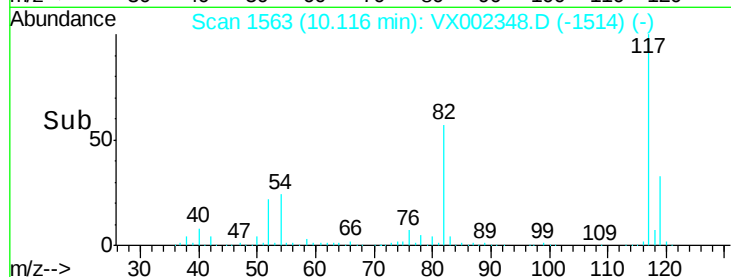
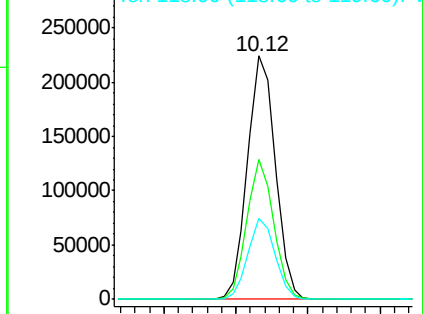
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 300216
Ion Ratio Lower Upper
117 100
82 57.3 45.0 67.4
119 33.2 25.8 38.6

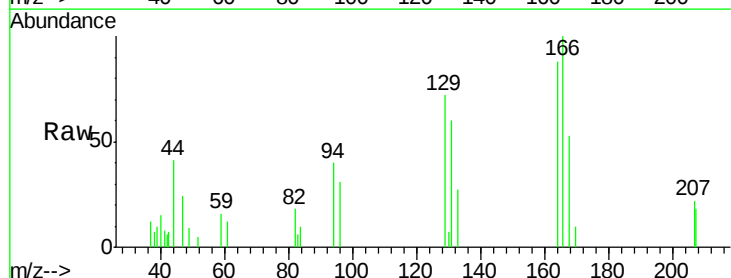


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

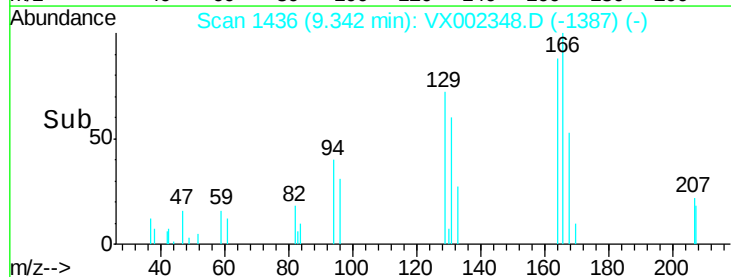
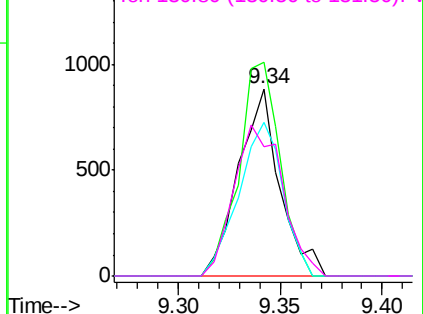


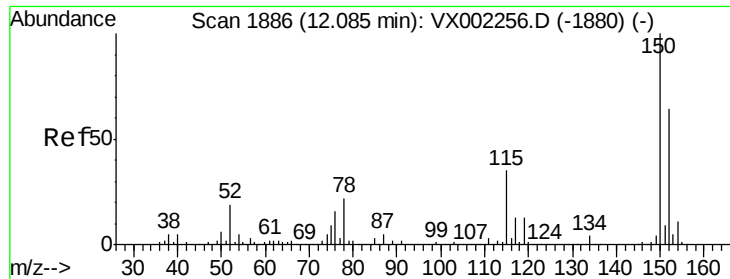
#64
Tetrachloroethene
Concen: 0.40 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX002348.D
Acq: 06 Jun 2018 13:16

Tgt Ion:164 Resp: 1242
Ion Ratio Lower Upper
164 100
166 114.0 102.9 154.3
129 81.8 68.6 102.8
131 68.7 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: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

Instrument :

MSVOA_X

ClientSampleId :

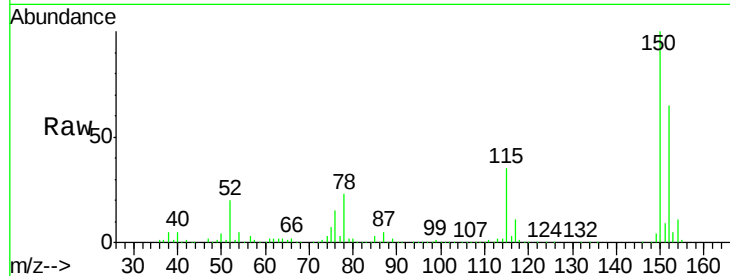
Tot Ion:152 Resp: 157798

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

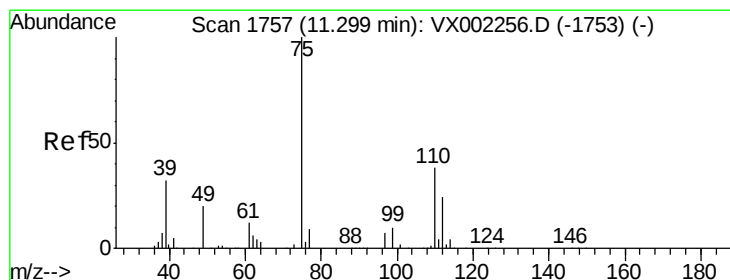
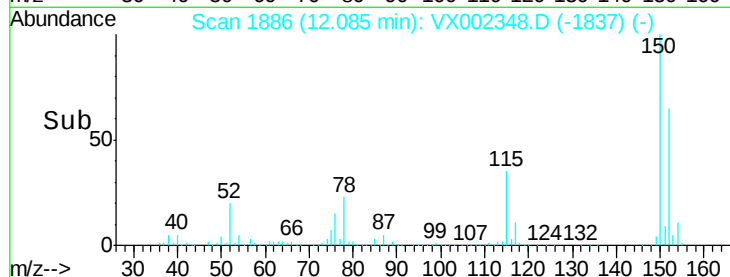
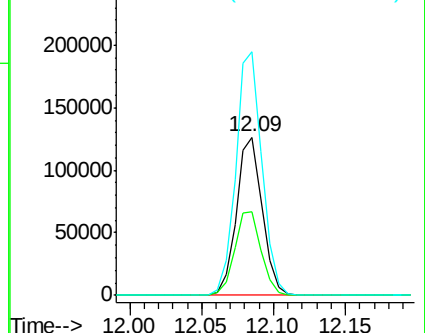
150 156.1 0.0 347.2



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: 25.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002348.D

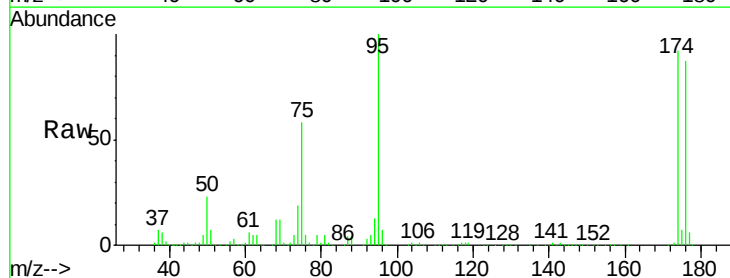
Acq: 06 Jun 2018 13:16

Tgt Ion: 75 Resp: 87135

Ion Ratio Lower Upper

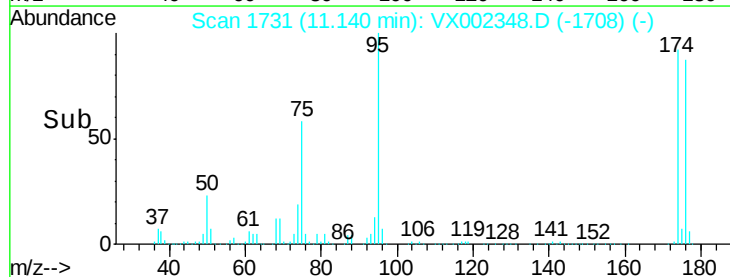
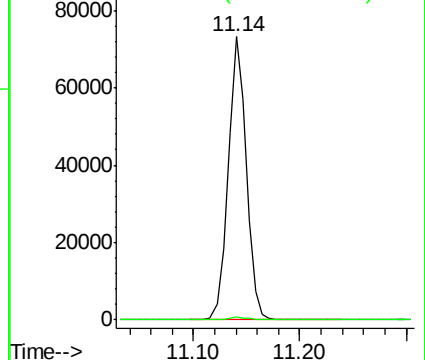
75 100

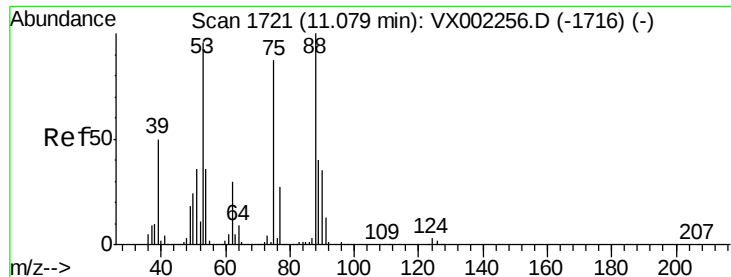
77 1.2 22.8 68.3#



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: 88.21 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002348.D

Acq: 06 Jun 2018 13:16

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 87135

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

