

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005221.D
 Acq On : 10 Oct 2018 21:48
 Operator : JC/MD
 Sample : J5317-09 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-122D1-IMP-20181004

Quant Time: Oct 11 06:08:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

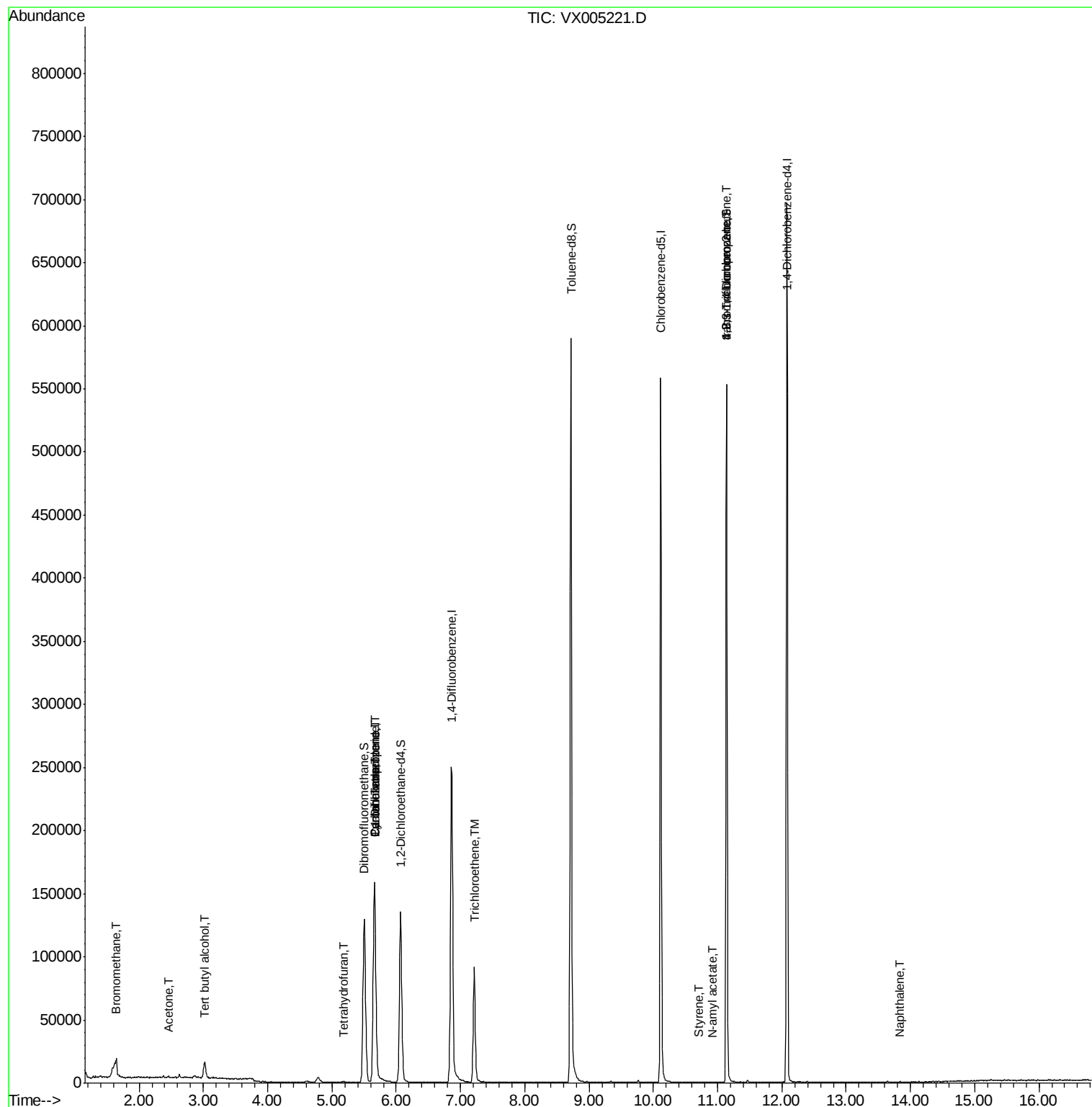
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	165667	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	261113	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	262768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	145984	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	129707	54.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.62%	
35) Dibromofluoromethane	5.50	113	109634	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
50) Toluene-d8	8.72	98	380224	51.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.36%	
62) 4-Bromofluorobenzene	11.14	95	135111	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	497	0.326	ug/l	95
6) Chloroethane	1.71	64	104	Below Cal	#	45
11) Tert butyl alcohol	3.02	59	8167	12.342	ug/l #	75
16) Acetone	2.45	43	999	0.723	ug/l #	87
20) Methylene Chloride	2.85	84	694	Below Cal	#	71
29) Tetrahydrofuran	5.18	42	644	0.509	ug/l #	34
31) Cyclohexane	5.66	56	3194	1.061	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	11303	3.744	ug/l #	47
38) Carbon Tetrachloride	5.66	117	15113	4.762	ug/l #	18
44) Trichloroethene	7.21	130	36772	15.825	ug/l	99
70) Styrene	10.71	104	39	2.146	ug/l #	25
74) N-amyl acetate	10.92	43	42	1.756	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	66990	20.474	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	121	Below Cal	#	29
81) trans-1,4-Dichloro-2-buten	11.14	75	66990	55.607	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	131	Below Cal		75
95) Naphthalene	13.84	128	232	0.738	ug/l #	69

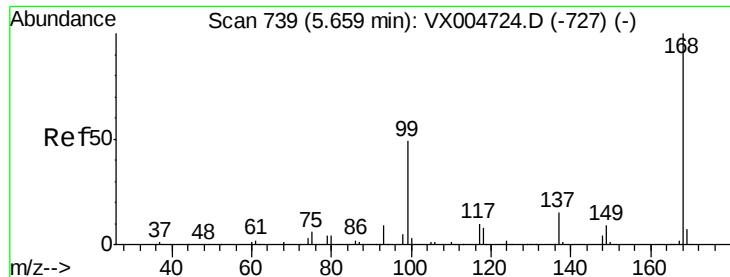
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

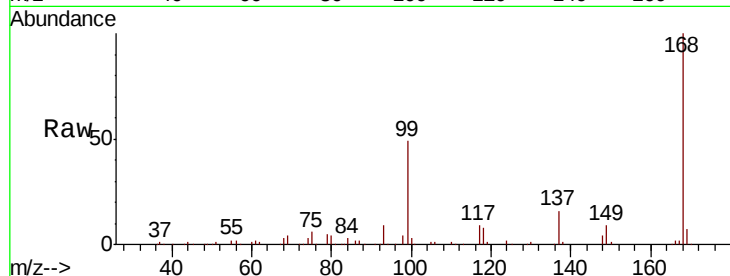
RE-122D1-IMP-20181004

Tot Ion:168 Resp: 165667

Ion Ratio Lower Upper

168 100

99 49.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

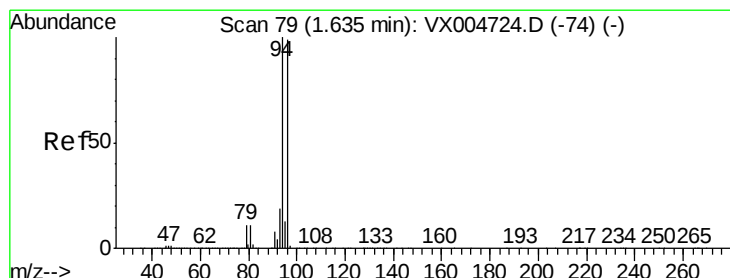
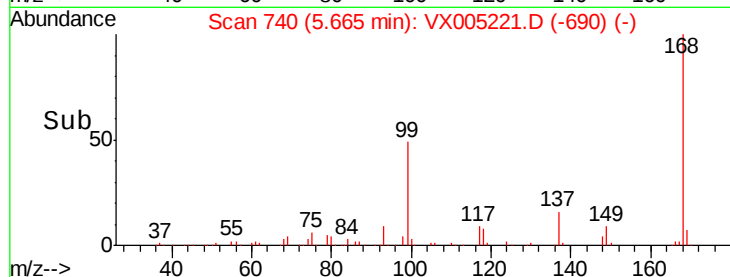
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.326 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005221.D

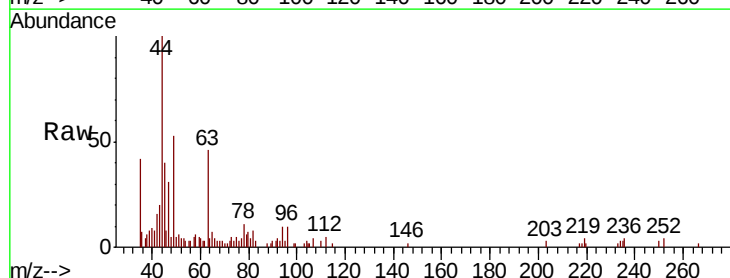
Acq: 10 Oct 2018 21:48

Tgt Ion: 94 Resp: 497

Ion Ratio Lower Upper

94 100

96 104.0 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

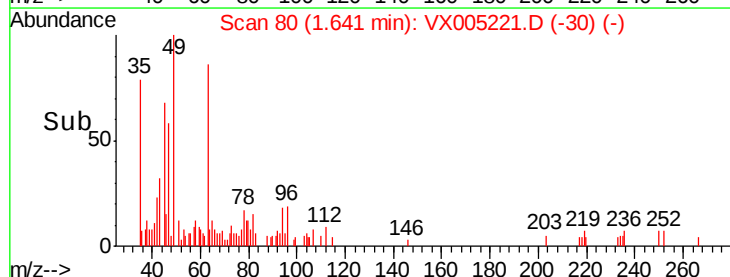
300

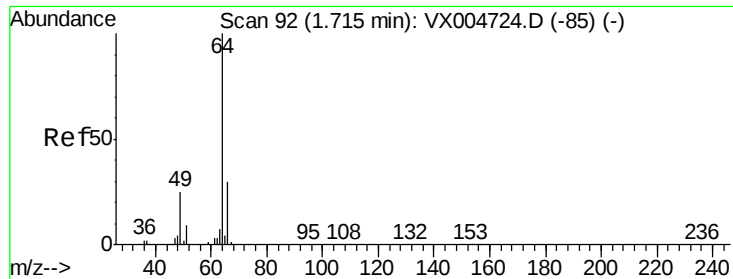
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

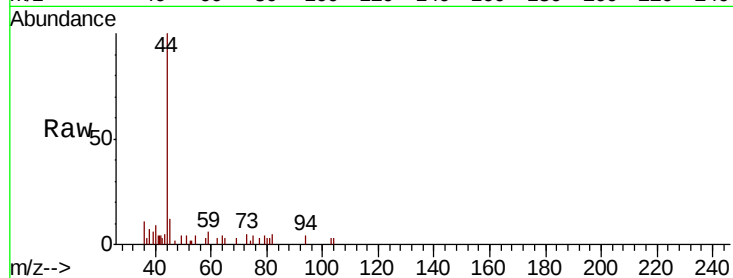
RE-122D1-IMP-20181004

Tot Ion: 64 Resp: 104

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



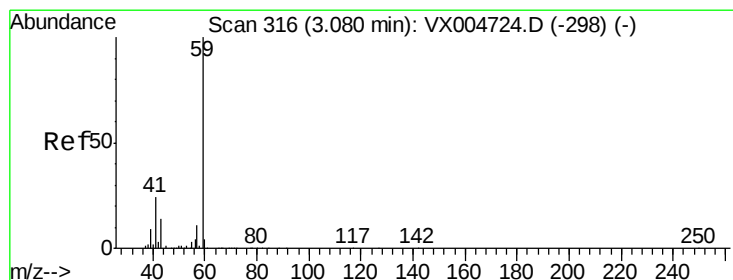
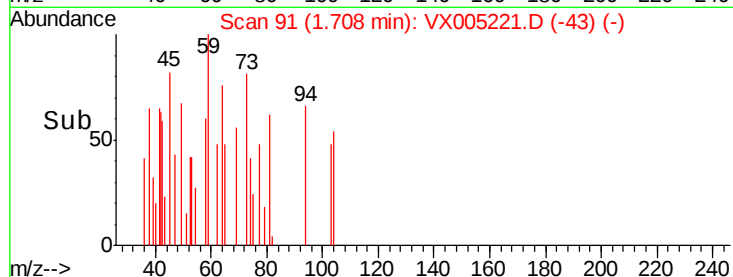
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

1.72

Time-->



#11

Tert butyl alcohol

Concen: 12.342 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005221.D

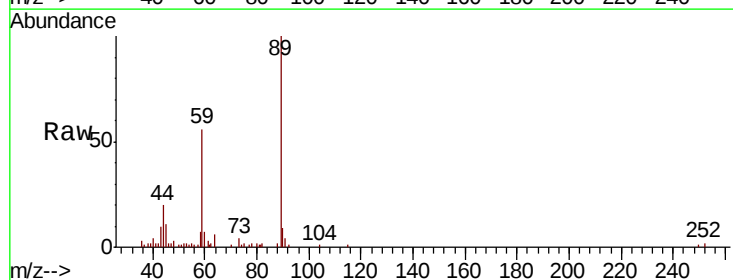
Acq: 10 Oct 2018 21:48

Tgt Ion: 59 Resp: 8167

Ion Ratio Lower Upper

59 100

57 1.4 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

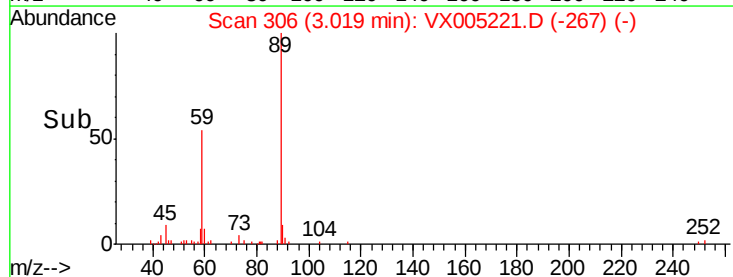
Ion 57.00 (56.70 to 57.70): VX0

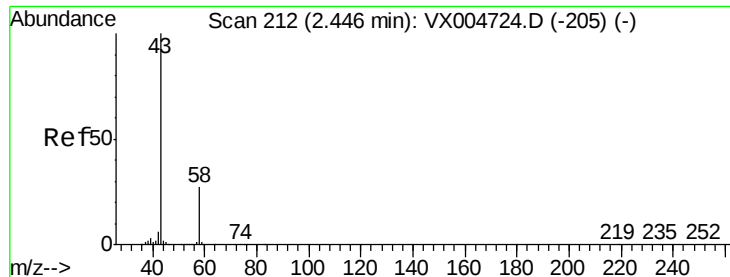
3.02

2.90

3.10

Time-->





#16

Acetone

Concen: 0.723 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

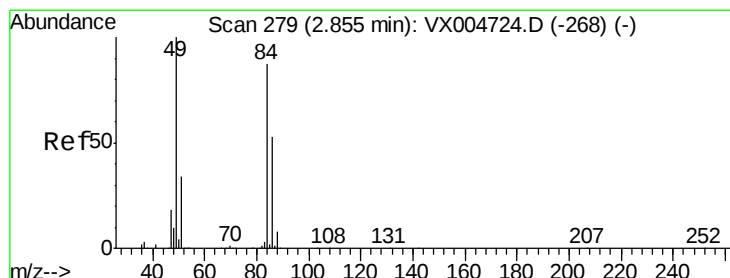
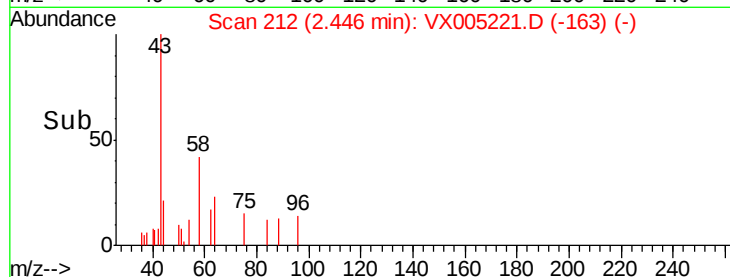
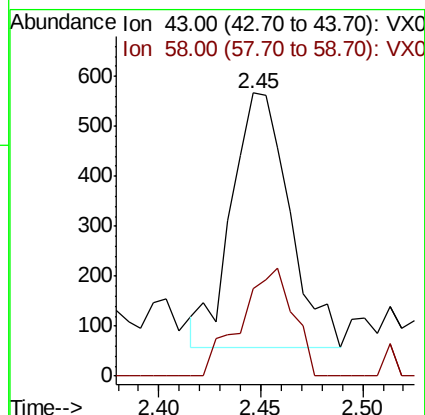
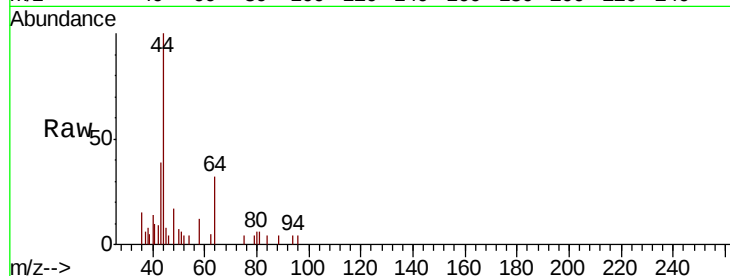
RE-122D1-IMP-20181004

Tot Ion: 43 Resp: 999

Ion Ratio Lower Upper

43 100

58 34.2 21.8 32.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Tgt Ion: 84 Resp: 694

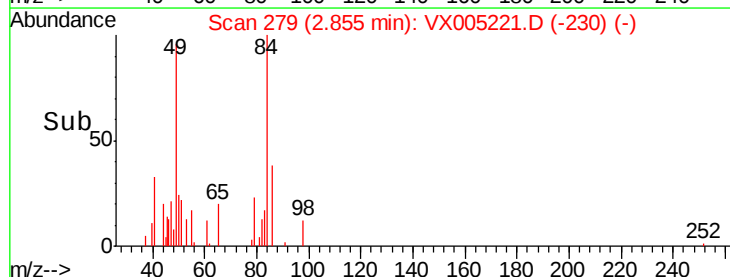
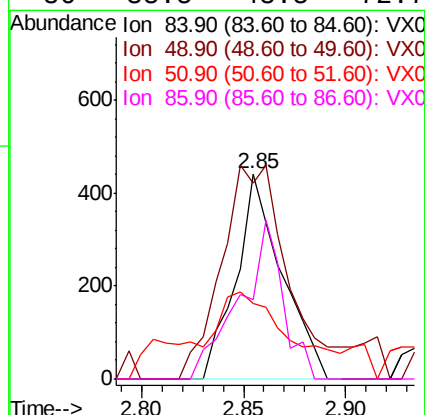
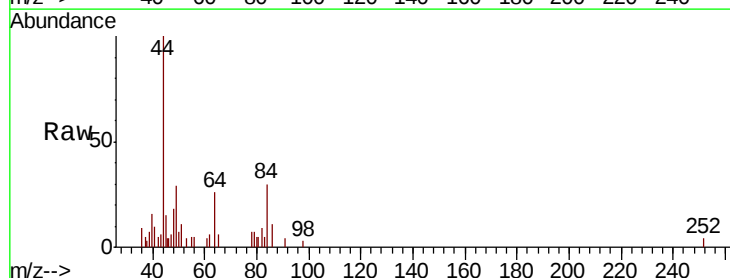
Ion Ratio Lower Upper

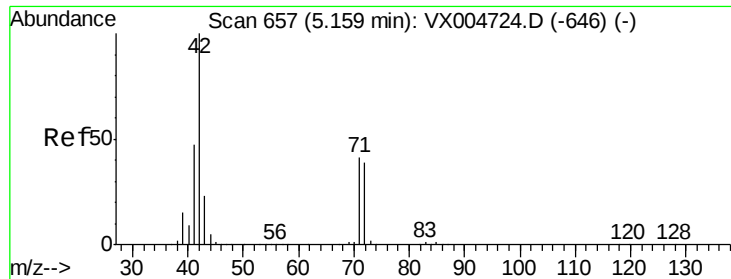
84 100

49 82.6 92.3 138.5#

51 24.0 31.8 47.6#

86 38.5 48.5 72.7#





#29

Tetrahydrofuran

Concen: 0.509 ug/l

RT: 5.18 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

RE-122D1-IMP-20181004

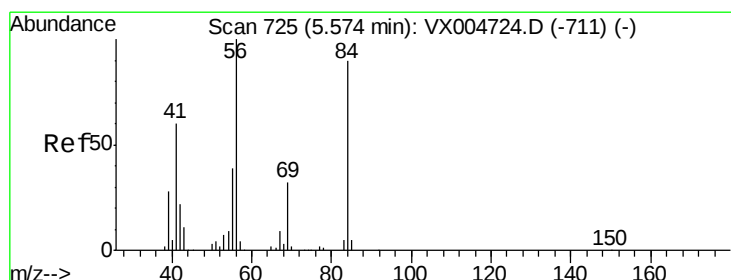
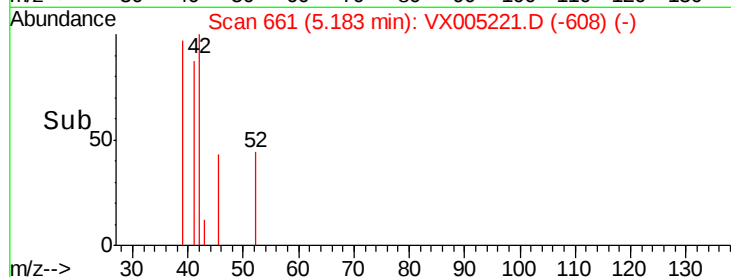
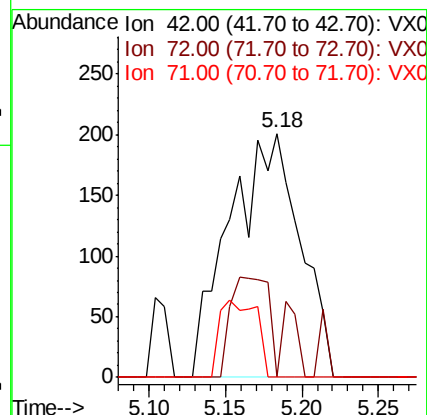
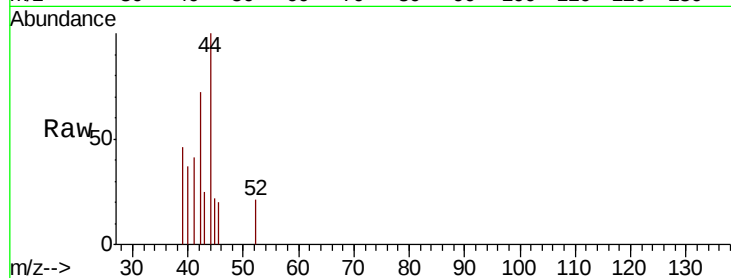
Tot Ion: 42 Resp: 644

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.2 48.4#



#31

Cyclohexane

Concen: 1.061 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

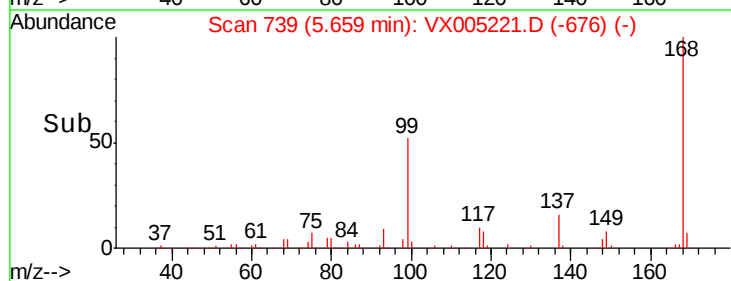
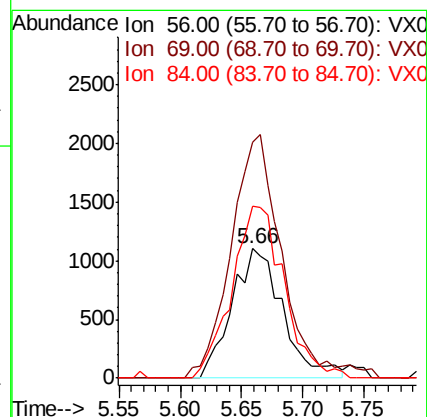
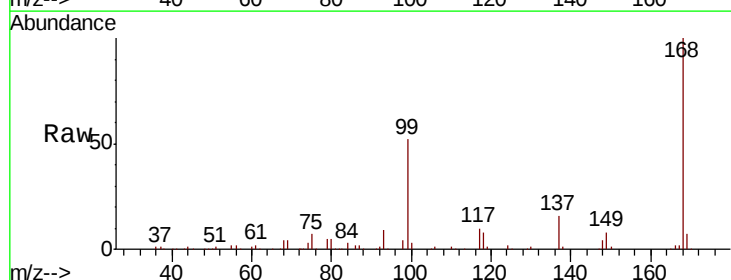
Tgt Ion: 56 Resp: 3194

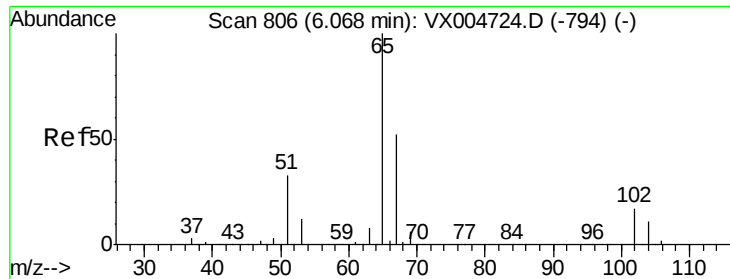
Ion Ratio Lower Upper

56 100

69 173.5 25.9 38.9#

84 132.9 71.9 107.9#





#33

1,2-Dichloroethane-d4

Concen: 54.808 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

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ClientSampleId :

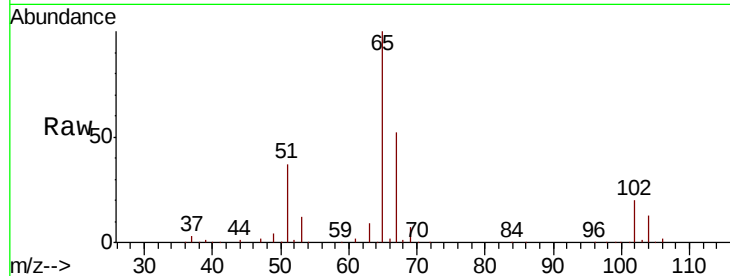
RE-122D1-IMP-20181004

Tot Ion: 65 Resp: 129707

Ion Ratio Lower Upper

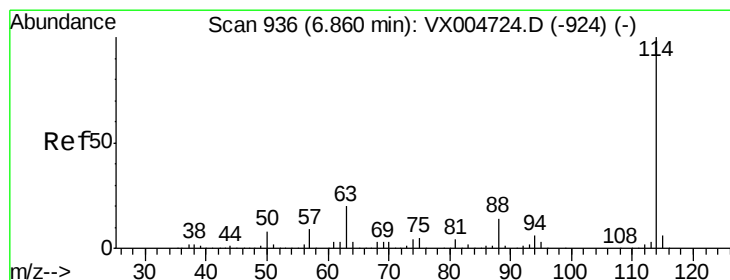
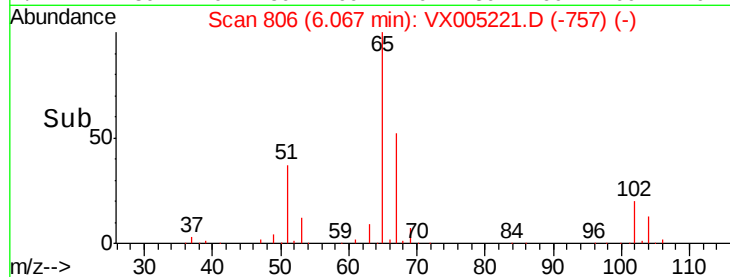
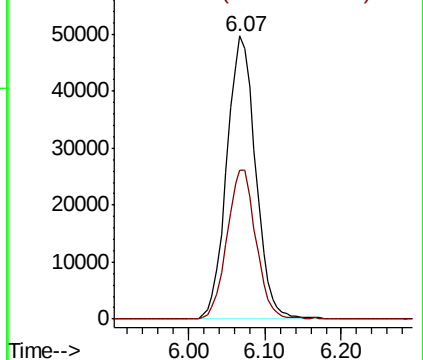
65 100

67 52.8 0.0 107.4



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

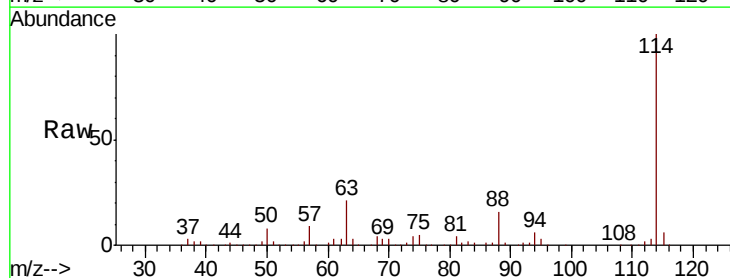
Tgt Ion: 114 Resp: 261113

Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.8

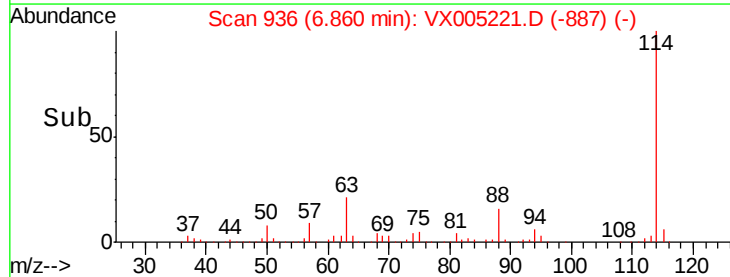
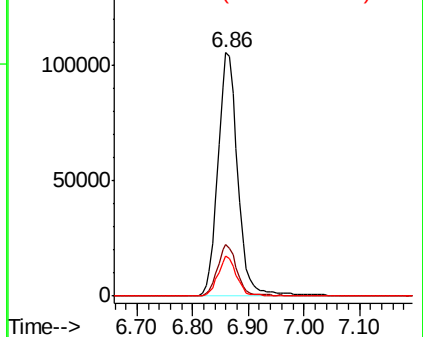
88 16.2 0.0 27.0

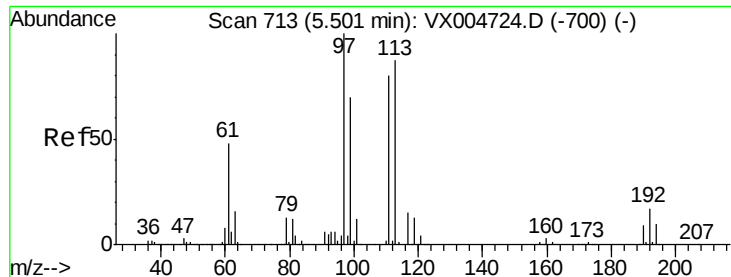


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

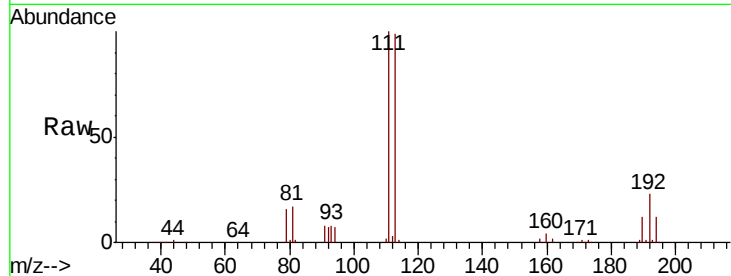




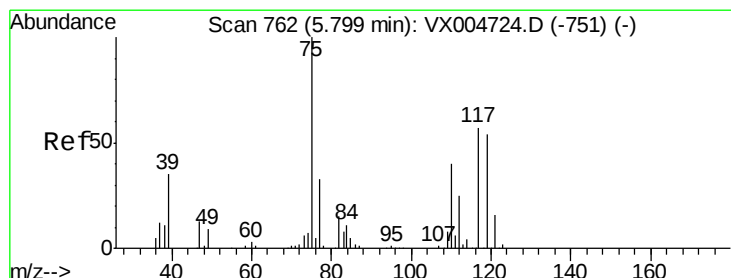
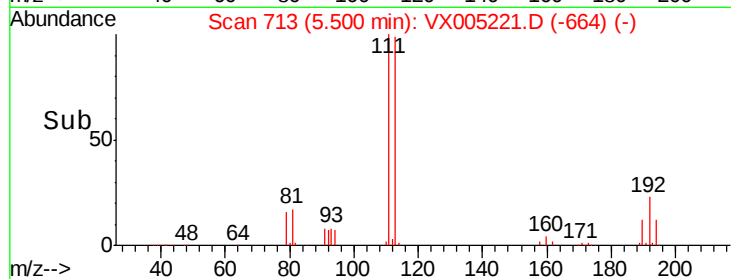
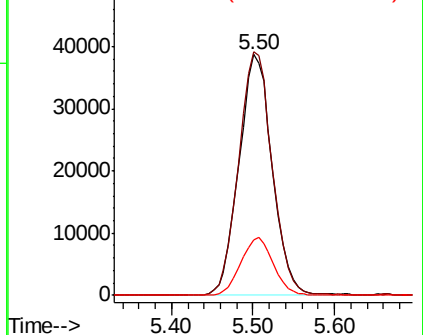
#35
 Dibromofluoromethane
 Concen: 49.542 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005221.D
 Acq: 10 Oct 2018 21:48

Instrument :
 MSVOA_X
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 RE-122D1-IMP-20181004

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	77.0	115.4
192	23.7	17.0	25.6

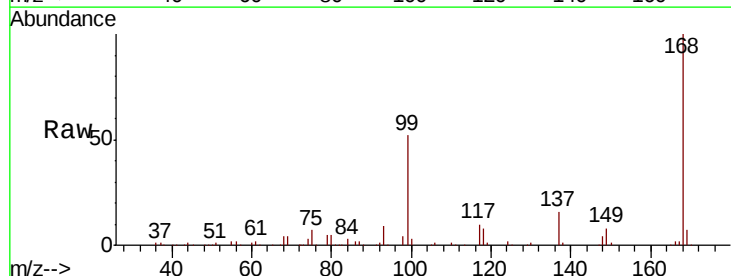


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

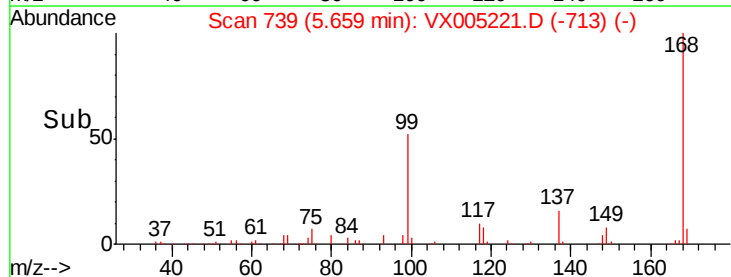
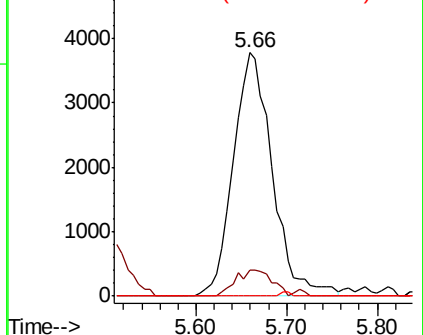


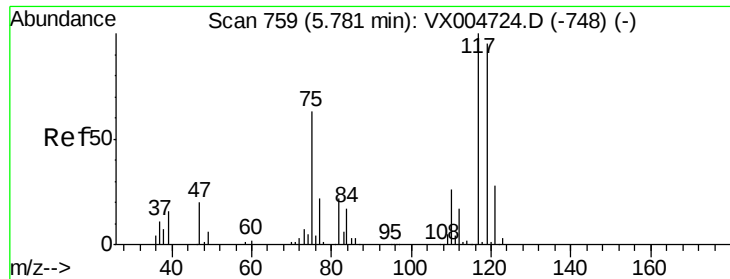
#36
 1,1-Dichloropropene
 Concen: 3.744 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005221.D
 Acq: 10 Oct 2018 21:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	20.0	59.9#
77	0.0	27.1	40.7#



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: 4.762 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

RE-122D1-IMP-20181004

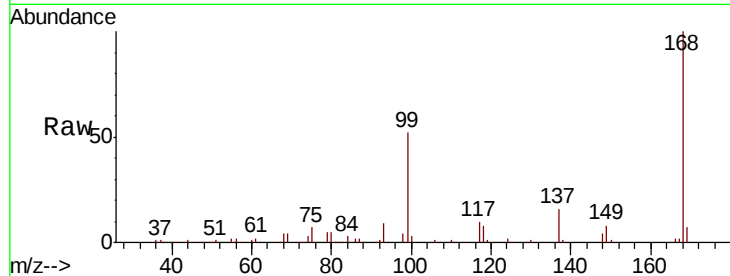
Tot Ion:117 Resp: 15113

Ion Ratio Lower Upper

117 100

119 6.0 75.2 112.8#

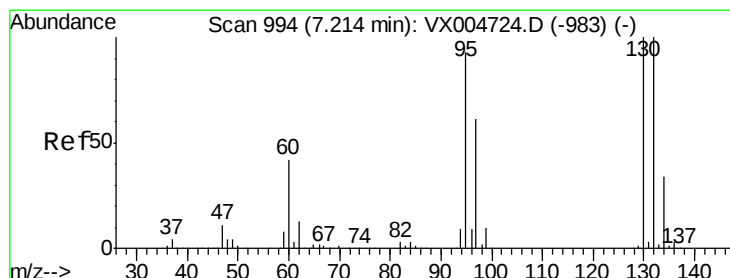
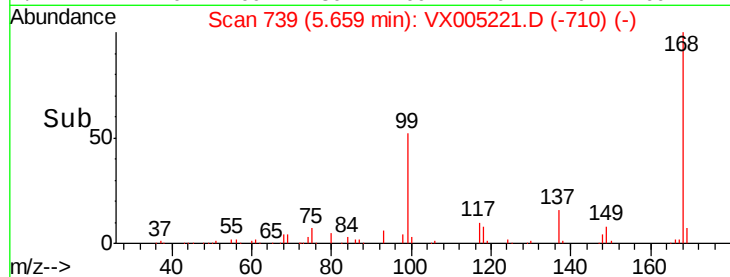
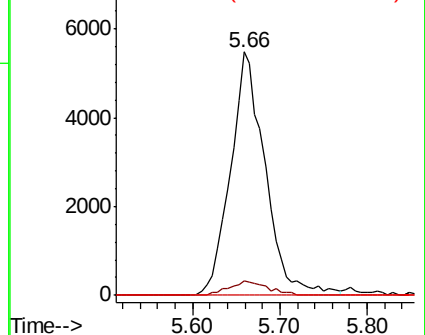
121 0.0 22.5 33.7#



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: 15.825 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005221.D

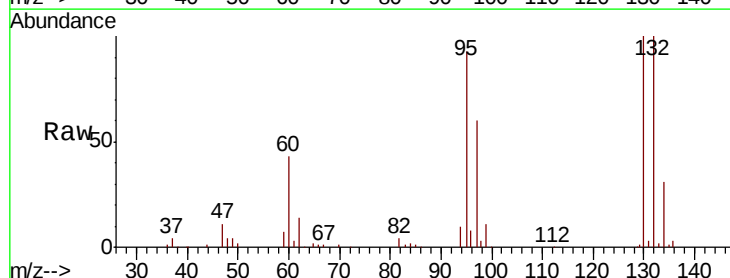
Acq: 10 Oct 2018 21:48

Tgt Ion:130 Resp: 36772

Ion Ratio Lower Upper

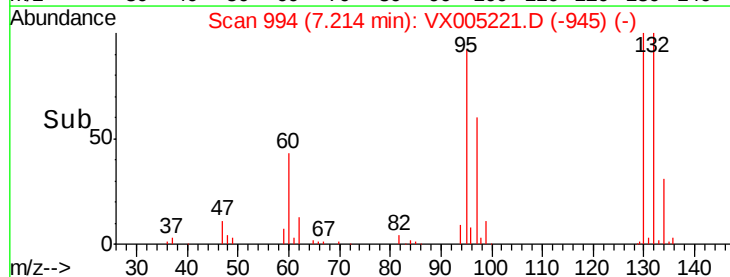
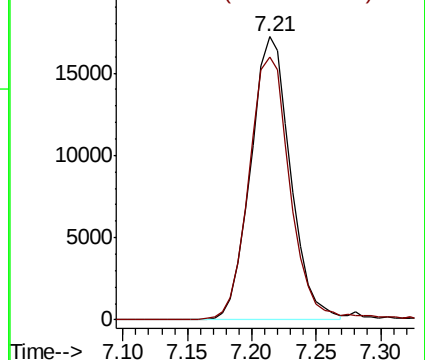
130 100

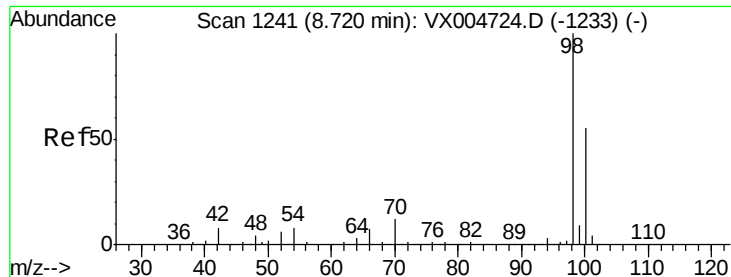
95 92.5 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 51.682 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

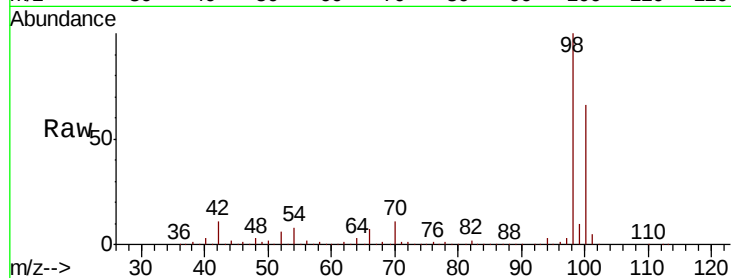
RE-122D1-IMP-20181004

Tot Ion: 98 Resp: 380224

Ion Ratio Lower Upper

98 100

100 64.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

100000

50000

0

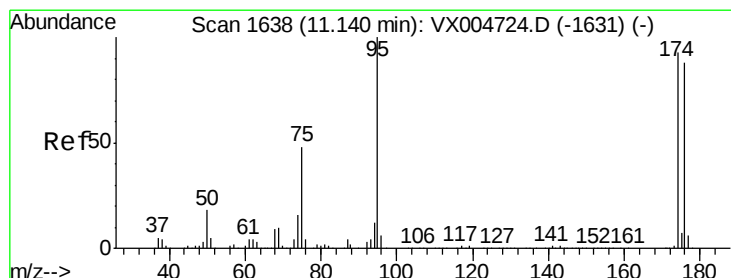
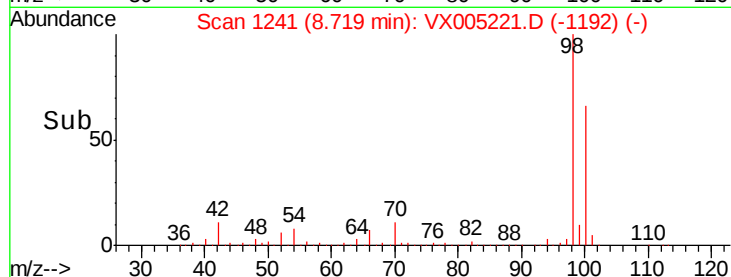
8.60

8.72

8.80

9.00

Time-->



#62

4-Bromofluorobenzene

Concen: 50.978 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

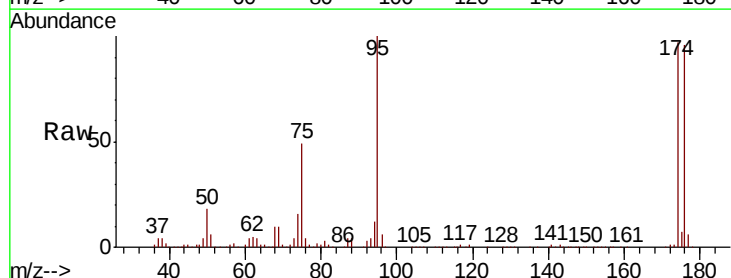
Tgt Ion: 95 Resp: 135111

Ion Ratio Lower Upper

95 100

174 95.6 0.0 185.0

176 92.4 0.0 180.2



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

100000

50000

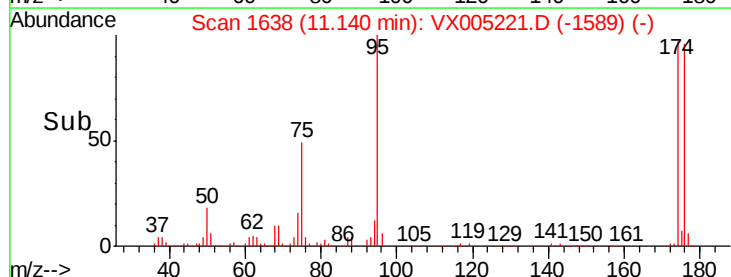
0

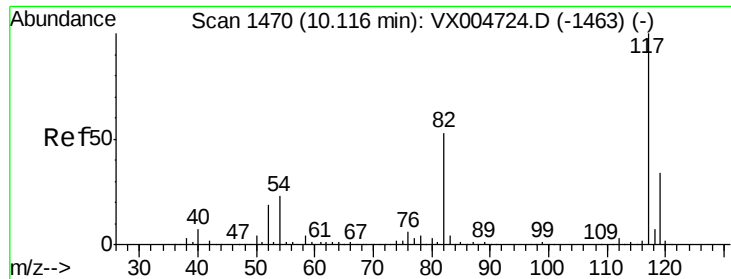
11.10

11.14

11.20

Time-->

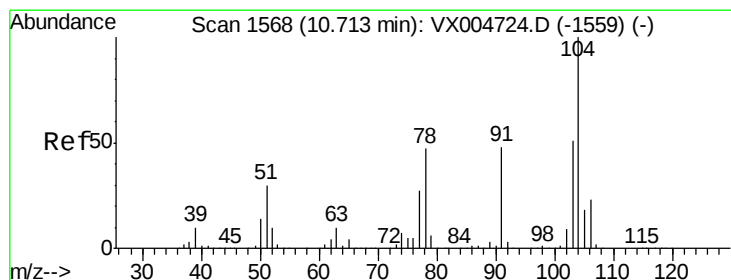
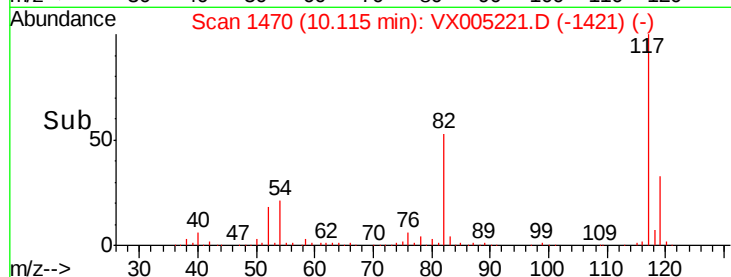
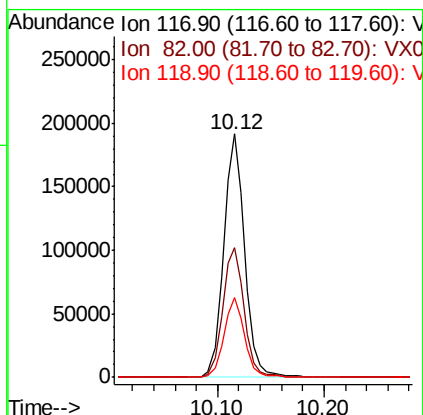
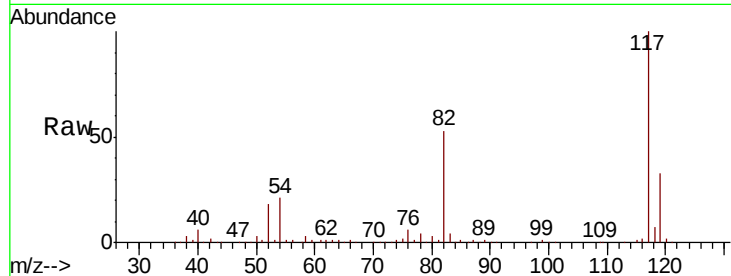




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005221.D
Acq: 10 Oct 2018 21:48

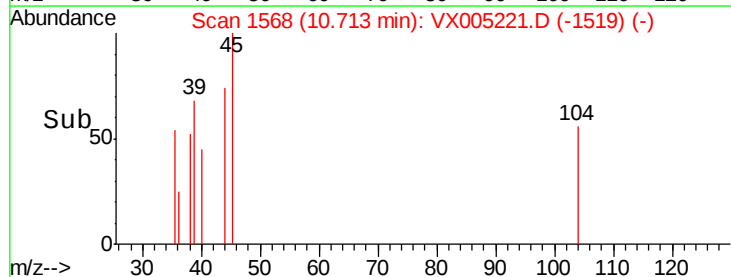
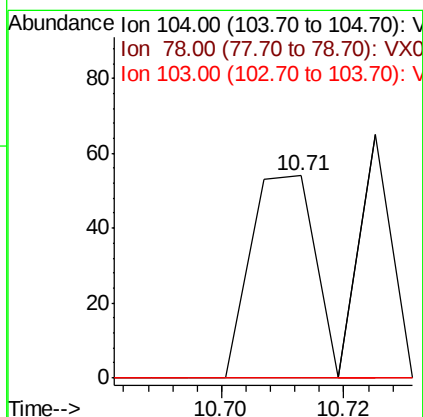
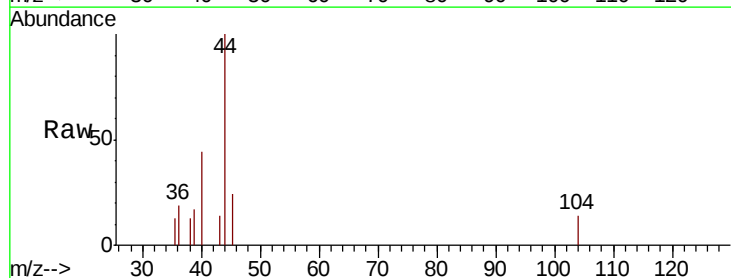
Instrument :
MSVOA_X
ClientSampleId :
RE-122D1-IMP-20181004

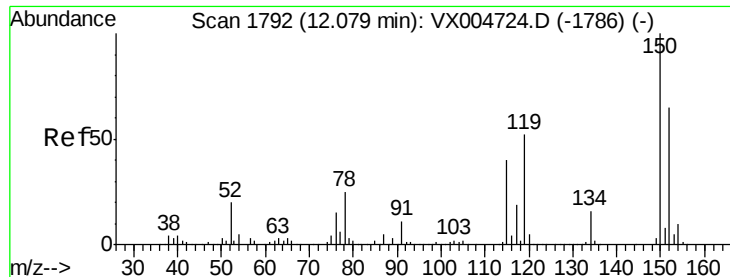
Tot Ion:117 Resp: 262768
Ion Ratio Lower Upper
117 100
82 53.2 42.2 63.4
119 32.6 27.4 41.0



#70
Styrene
Concen: 2.146 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005221.D
Acq: 10 Oct 2018 21:48

Tgt Ion:104 Resp: 39
Ion Ratio Lower Upper
104 100
78 0.0 40.0 60.0#
103 0.0 44.3 66.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

RE-122D1-IMP-20181004

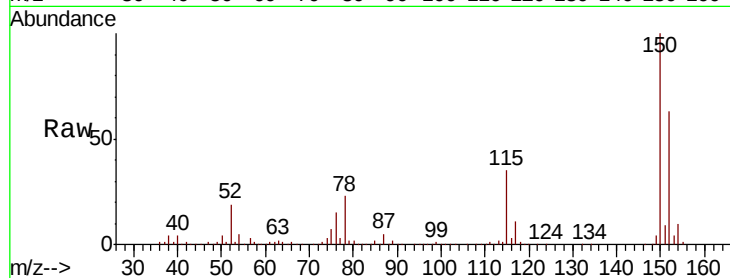
Tot Ion:152 Resp: 145984

Ion Ratio Lower Upper

152 100

115 54.6 40.2 120.6

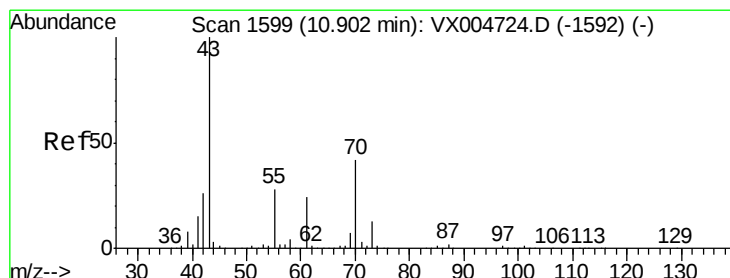
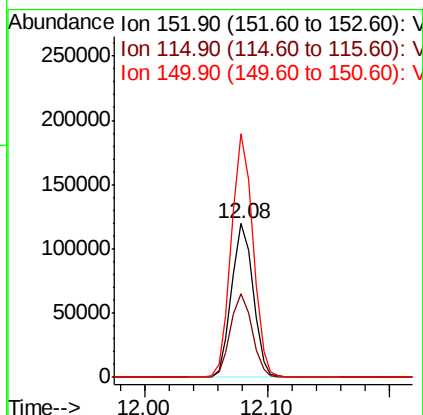
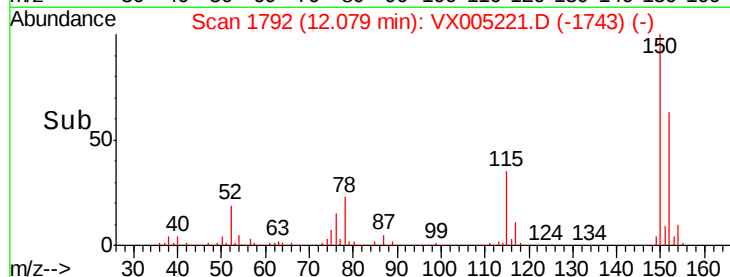
150 158.0 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.756 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Tgt Ion: 43 Resp: 42

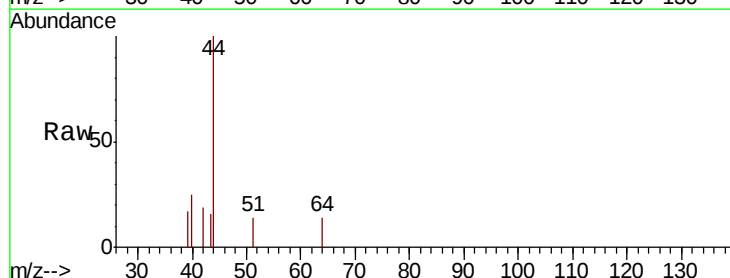
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

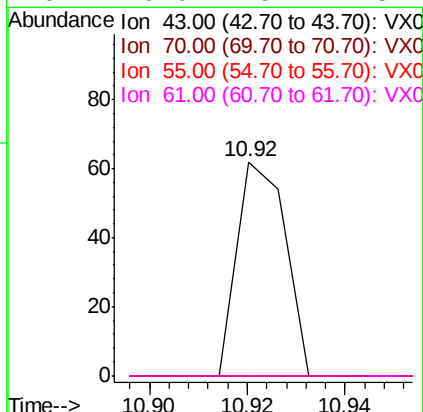
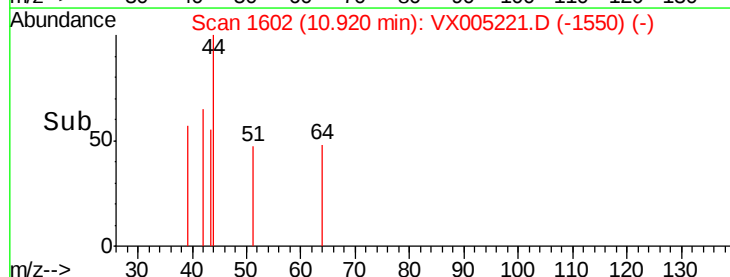


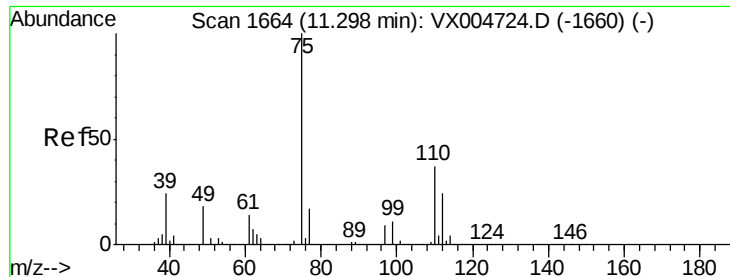
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 20.474 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

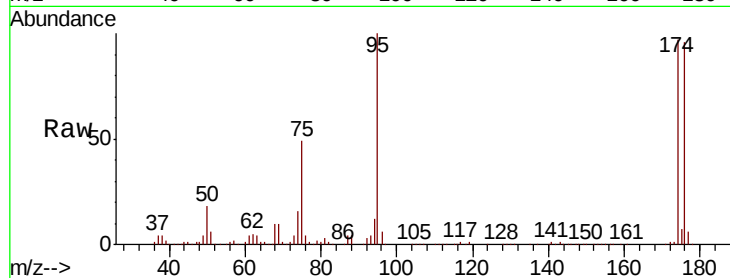
RE-122D1-IMP-20181004

Tot Ion: 75 Resp: 66990

Ion Ratio Lower Upper

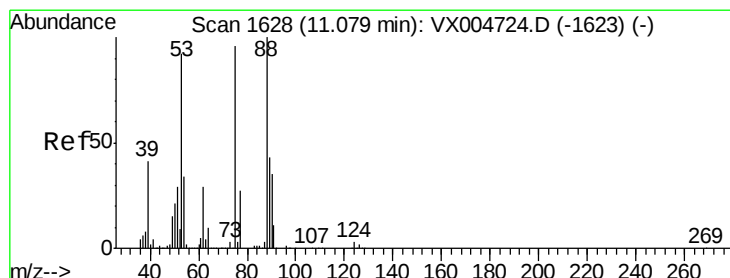
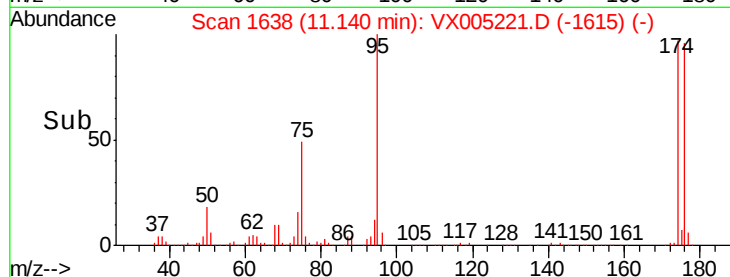
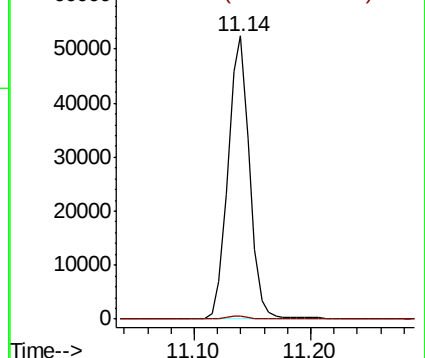
75 100

77 1.4 21.4 64.3#



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: 55.607 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

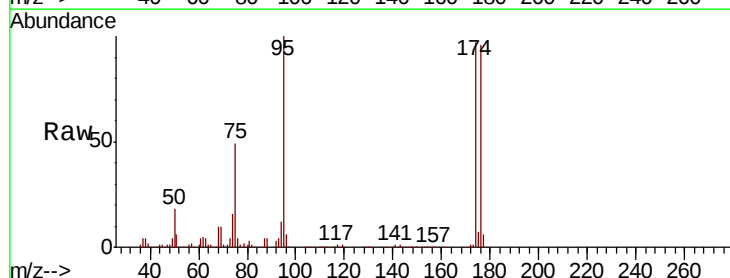
Tgt Ion: 75 Resp: 66990

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

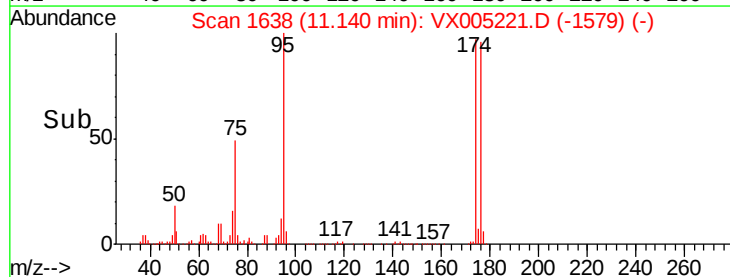
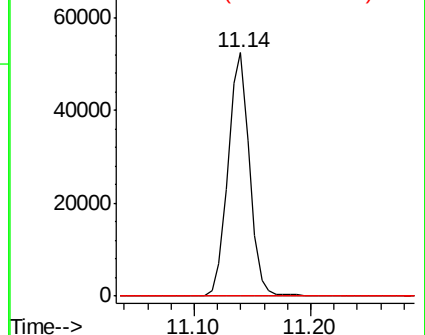
89 0.0 37.1 55.7#

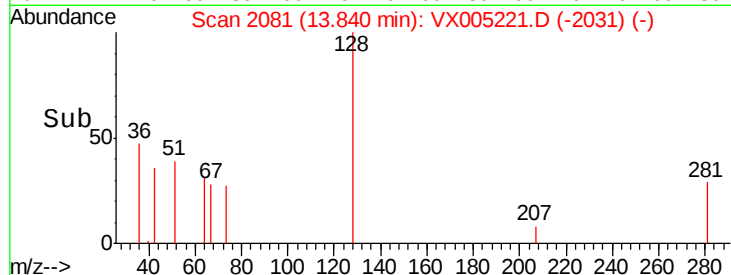
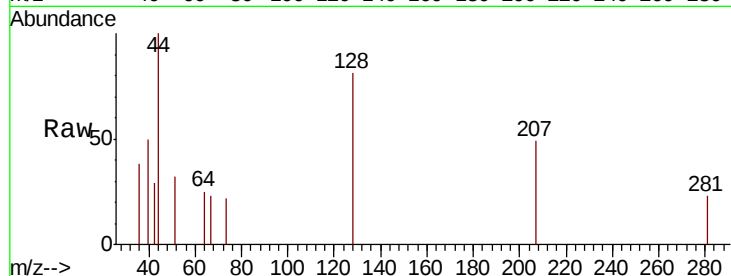
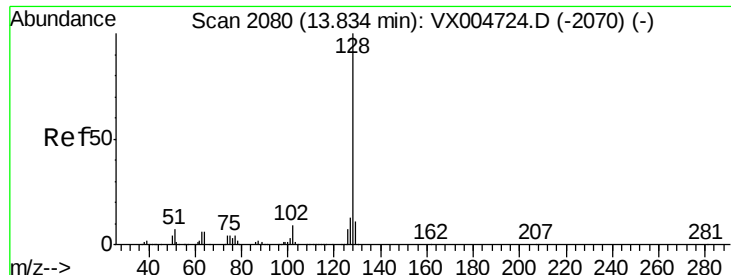


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.738 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX005221.D

Acq: 10 Oct 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

RE-122D1-IMP-20181004

Tot Ion:128 Resp: 232

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#

