

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030818\
 Data File : VX000221.D
 Acq On : 08 Mar 2018 13:47
 Operator : JC/MD
 Sample : J1791-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 08 15:51:38 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 06:17:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.04	128	21542	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	126816	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	120889	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	54442	32.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	108.83%
60) 4-Bromofluorobenzene	11.15	95	56170	28.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.67%
63) Toluene-d8	8.73	98	155041	29.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.80%

Target Compounds

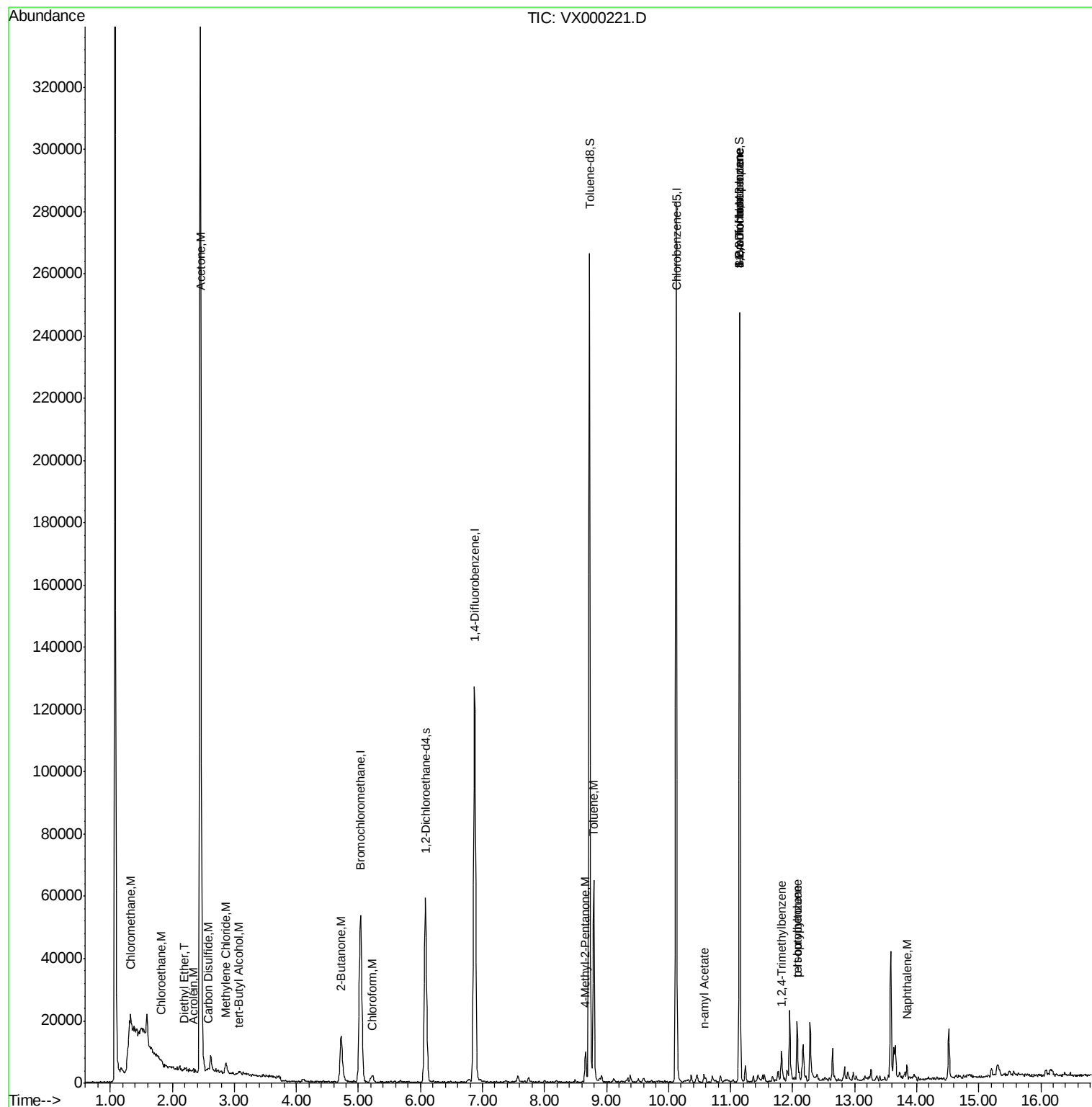
					Ovalue
3) Chloromethane	1.32	50	1053	0.786	ug/l # 88
6) Chloroethane	1.81	64	242	0.237	ug/l # 64
8) Diethyl Ether	2.20	74	235	0.244	ug/l # 18
13) Acrolein	2.34	56	81	0.262	ug/l 91
15) Acetone	2.45	58	137498	378.388	ug/l 94
16) Carbon Disulfide	2.57	76	1538	0.374	ug/l # 83
18) Methylene Chloride	2.86	84	1548	0.987	ug/l # 90
23) tert-Butyl Alcohol	3.06	59	272	0.427	ug/l # 100
25) Chloroform	5.23	83	1246	0.492	ug/l # 83
30) 2-Butanone	4.72	43	25894	18.215	ug/l # 97
47) n-amyl Acetate	10.57	43	1173	0.367	ug/l 93
56) Bromoform	11.15	173	568	0.420	ug/l # 1
58) 4-Methyl-2-Pentanone	8.66	43	6120	2.311	ug/l 97
62) Toluene	8.79	91	38177	6.070	ug/l 99
72) 1,2,3-Trichloropropane	11.15	75	32380	14.197	ug/l 35
77) t-1,4-Dichloro-2-butene	11.15	75	32380	40.146	ug/l # 11
79) tert-butylbenzene	12.07	119	7651	1.227	ug/l 96
80) 1,2,4-Trimethylbenzene	11.82	105	2389	0.374	ug/l 81
82) p-Isopropyltoluene	12.07	119	7651	1.113	ug/l 98
91) Naphthalene	13.84	128	2725	0.290	ug/l 97

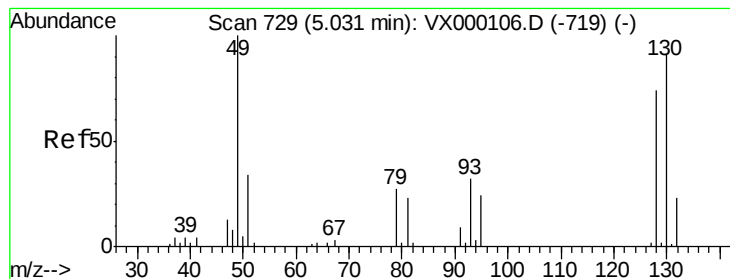
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 21 06:17:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.04 min Scan# 730

Delta R.T. 0.01 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

Instrument :

MSVOA_X

ClientSampled :

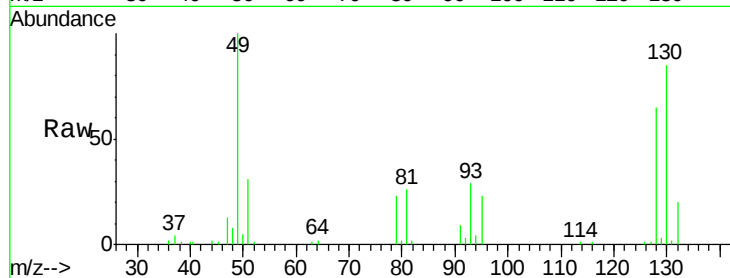
Tot Ion:128 Resp: 21542

Ion Ratio Lower Upper

128 100

49 159.5 0.0 378.3

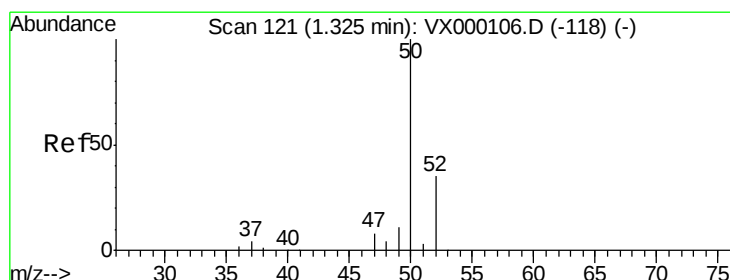
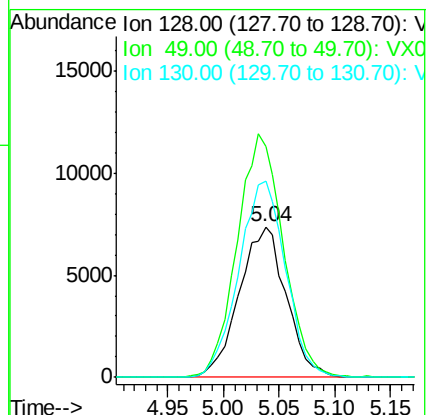
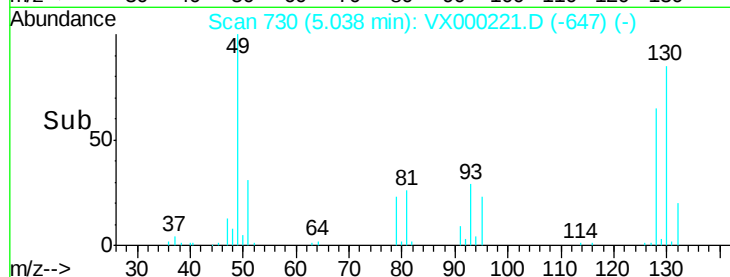
130 130.5 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.786 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX000221.D

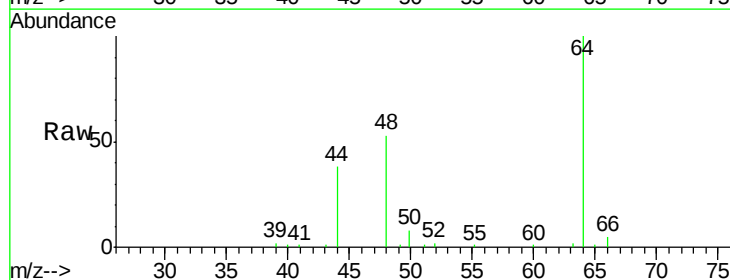
Acq: 08 Mar 2018 13:47

Tgt Ion: 50 Resp: 1053

Ion Ratio Lower Upper

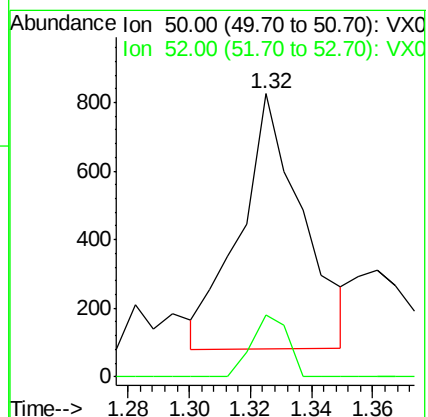
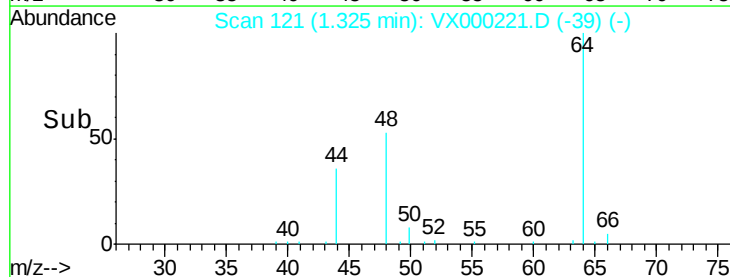
50 100

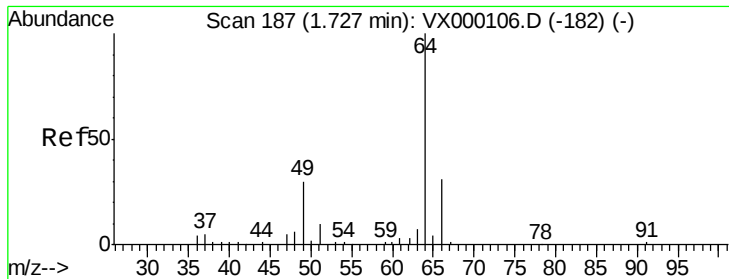
52 27.6 27.8 41.6#



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#6

Chloroethane

Concen: 0.237 ug/l

RT: 1.81 min Scan# 201

Delta R.T. 0.09 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

Instrument :

MSVOA_X

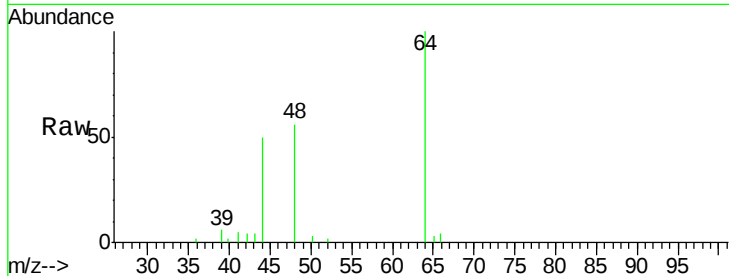
ClientSampleId :

Tot Ion: 64 Resp: 242

Ion Ratio Lower Upper

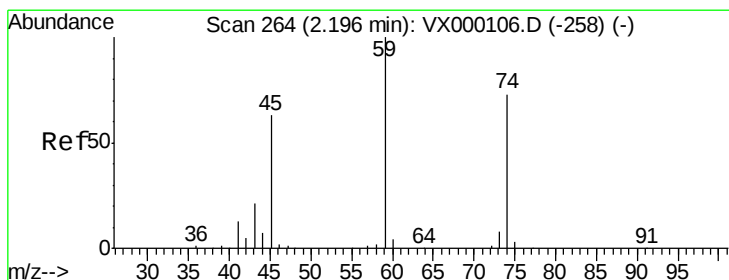
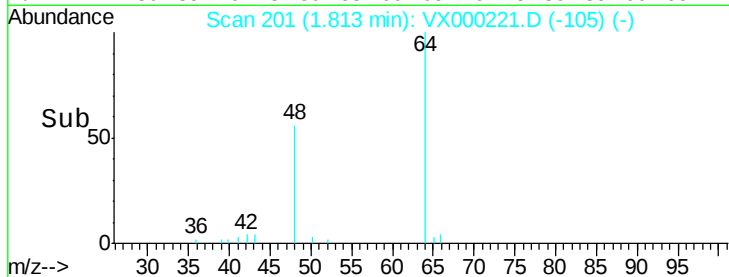
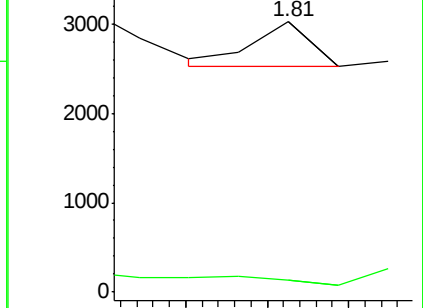
64 100

66 11.7 25.2 37.8#



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#8

Diethyl Ether

Concen: 0.244 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX000221.D

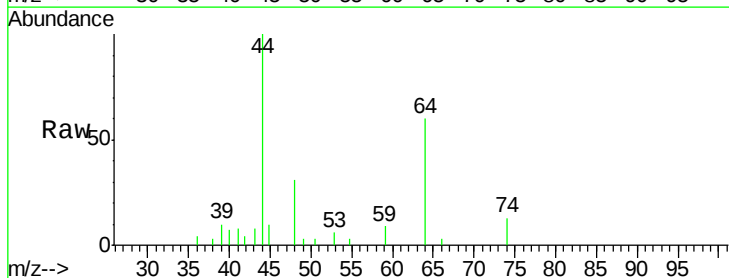
Acq: 08 Mar 2018 13:47

Tgt Ion: 74 Resp: 235

Ion Ratio Lower Upper

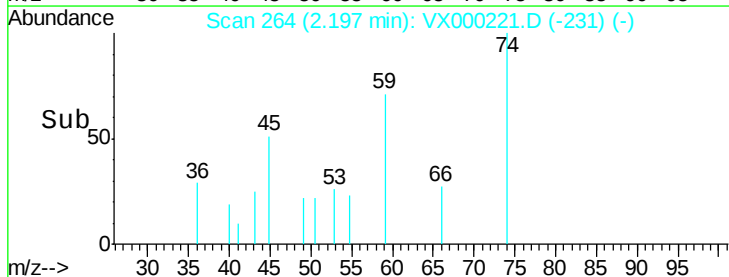
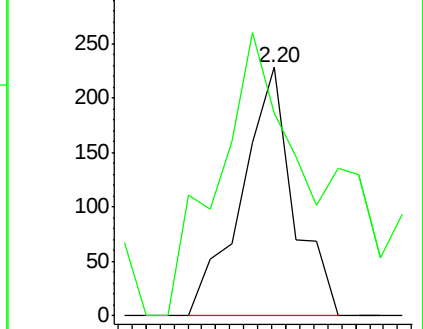
74 100

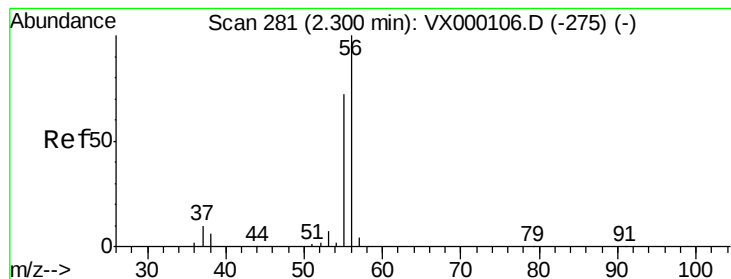
45 165.5 17.8 159.8#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#13

Acrolein

Concen: 0.262 ug/l

RT: 2.34 min Scan# 287

Delta R.T. 0.04 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

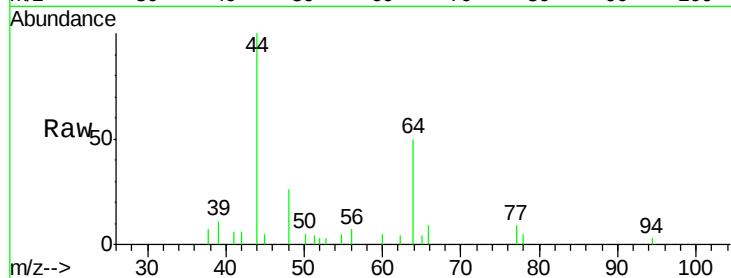
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 81

Ion Ratio Lower Upper

56 100

55 79.0 57.3 85.9

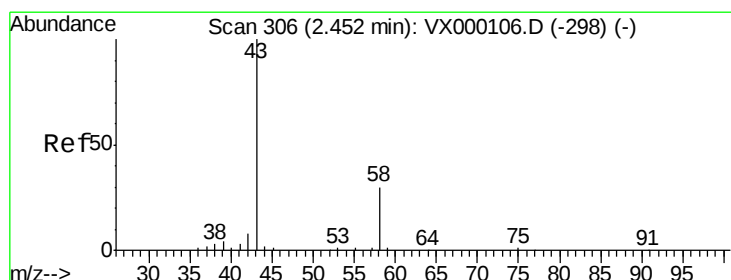
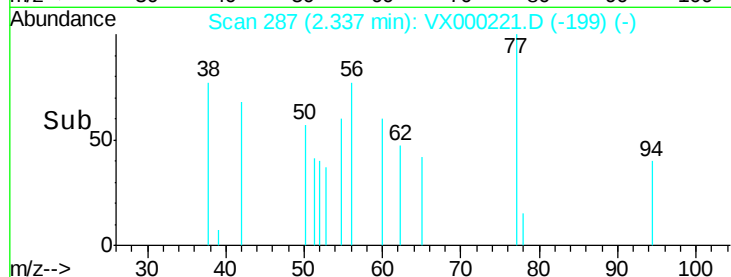


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.34

Time-->



#15

Acetone

Concen: 378.388 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX000221.D

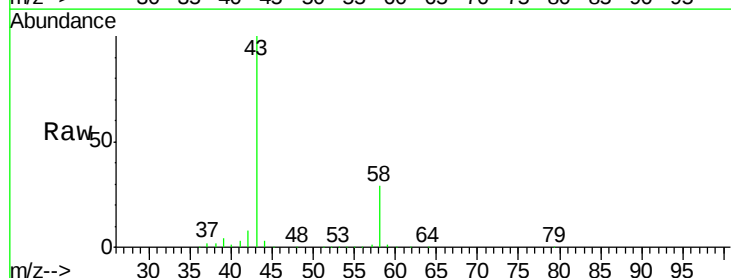
Acq: 08 Mar 2018 13:47

Tgt Ion: 58 Resp: 137498

Ion Ratio Lower Upper

58 100

43 342.4 264.6 396.8

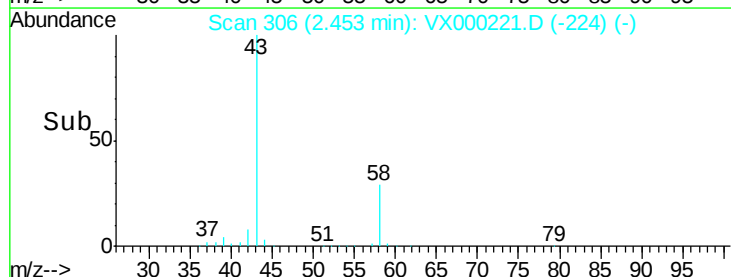


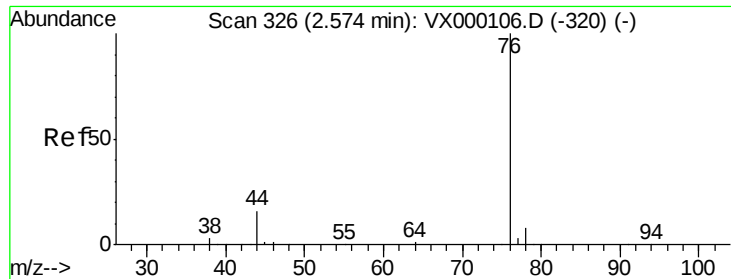
Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

2.45

Time-->

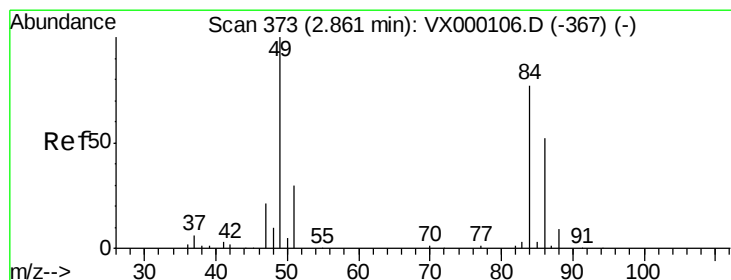
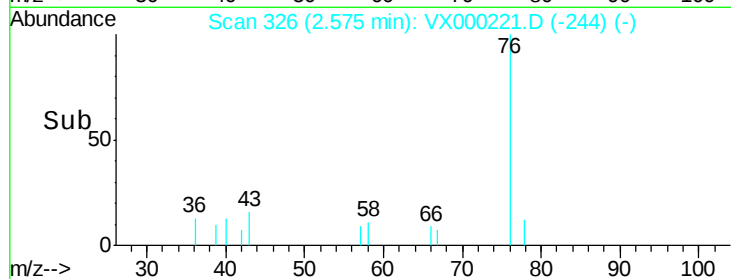
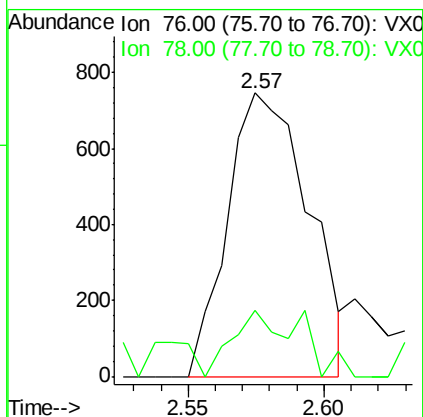
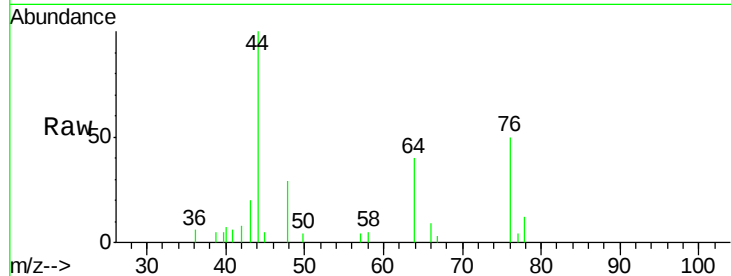




#16
Carbon Disulfide
Concen: 0.374 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.00 min
Lab File: VX000221.D
Acq: 08 Mar 2018 13:47

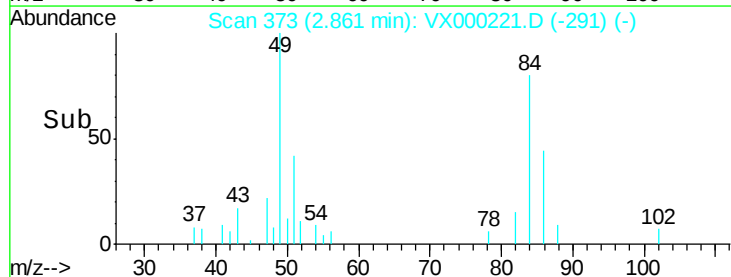
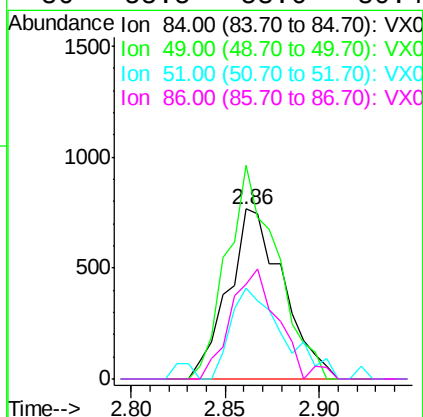
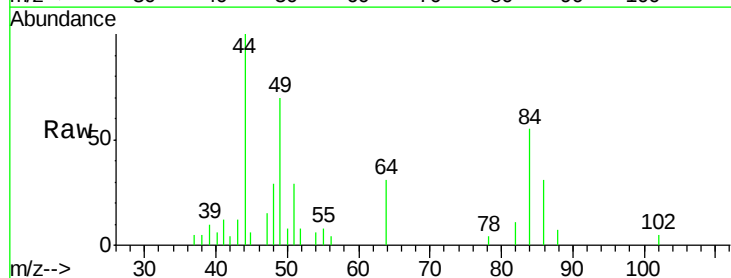
Instrument :
MSVOA_X
ClientSampleId :

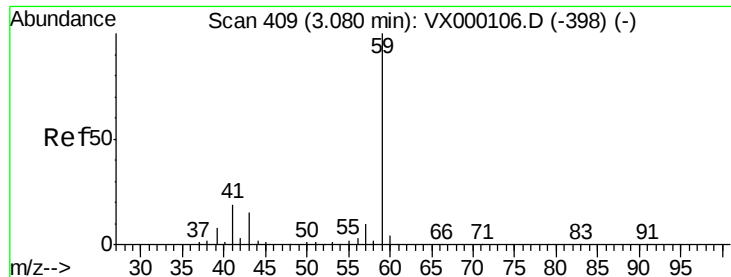
Tot Ion: 76 Resp: 1538
Ion Ratio Lower Upper
76 100
78 14.7 6.8 10.2#



#18
Methylene Chloride
Concen: 0.987 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX000221.D
Acq: 08 Mar 2018 13:47

Tgt Ion: 84 Resp: 1548
Ion Ratio Lower Upper
84 100
49 125.6 103.3 154.9
51 53.2 31.2 46.8#
86 55.5 53.6 80.4



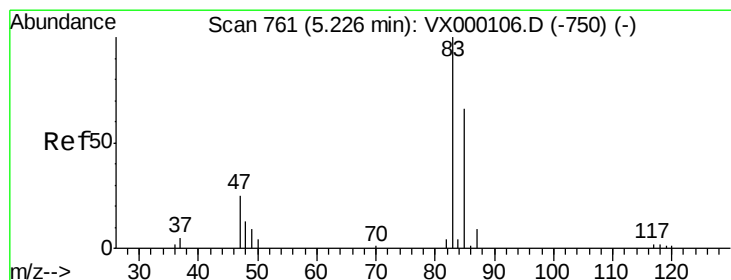
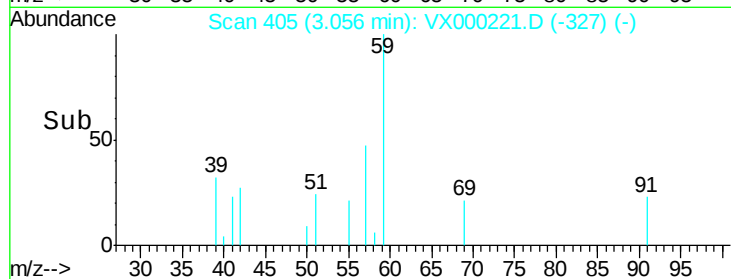
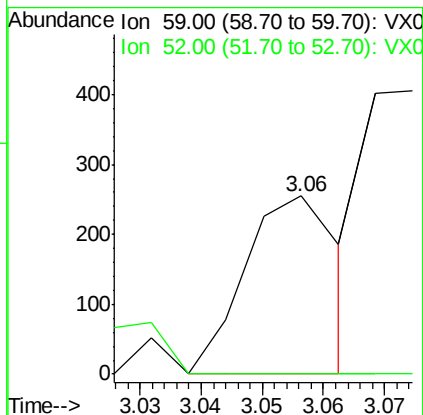
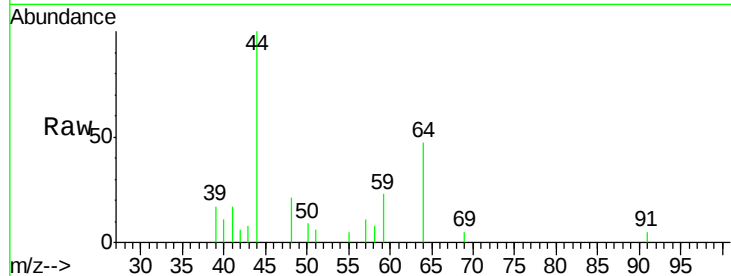


#23

tert-Butyl Alcohol
 Concen: 0.427 ug/l
 RT: 3.06 min Scan# 405
 Delta R.T. -0.02 min
 Lab File: VX000221.D
 Acq: 08 Mar 2018 13:47

Instrument :
 MSVOA_X
 ClientSampled :

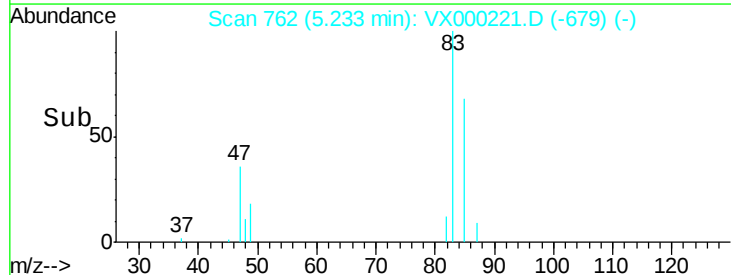
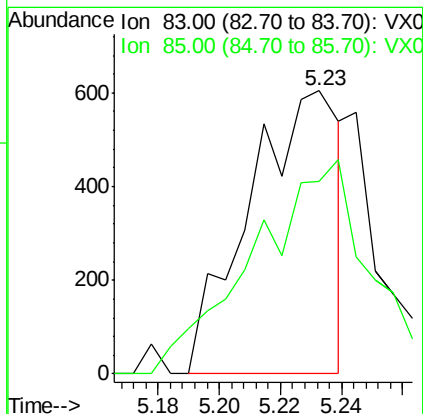
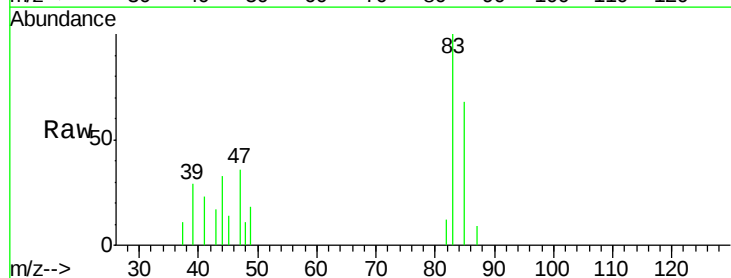
Tot Ion: 59 Resp: 272
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

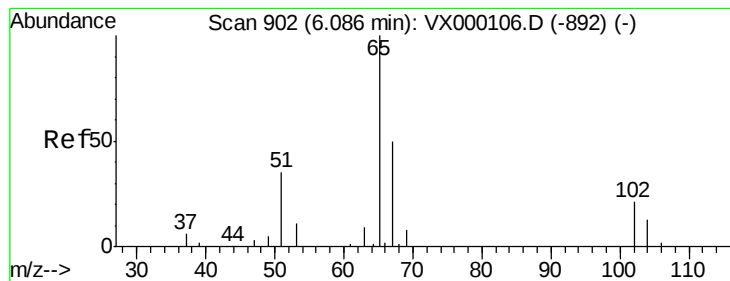


#25

Chloroform
 Concen: 0.492 ug/l
 RT: 5.23 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VX000221.D
 Acq: 08 Mar 2018 13:47

Tgt Ion: 83 Resp: 1246
 Ion Ratio Lower Upper
 83 100
 85 52.2 52.5 78.7#





#27

1,2-Dichloroethane-d4

Concen: 32.655 ug/l

RT: 6.08 min Scan# 901

Delta R.T. -0.01 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

Instrument :

MSVOA_X

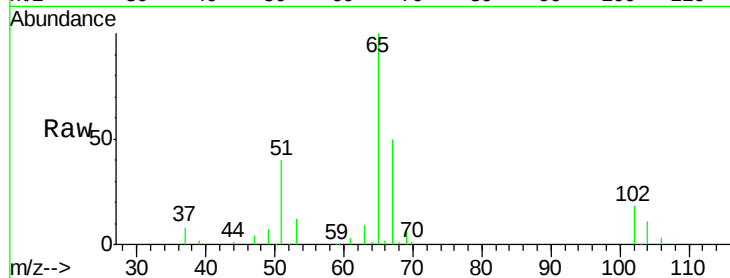
ClientSampleId :

Tot Ion: 65 Resp: 54442

Ion Ratio Lower Upper

65 100

67 50.5 41.4 62.2



Abundance Ion 65.00 (64.70 to 65.70): VX000106.D (-892) (-)

Ion 67.00 (66.70 to 67.70): VX000106.D (-892) (-)

6.08

20000

15000

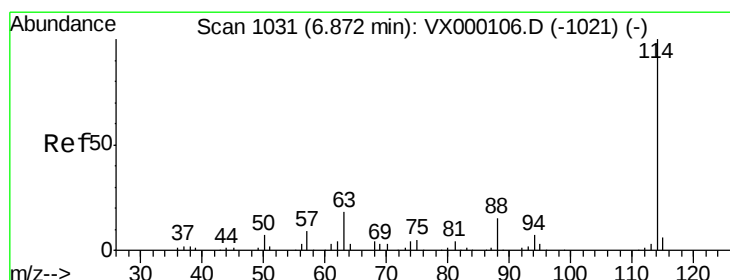
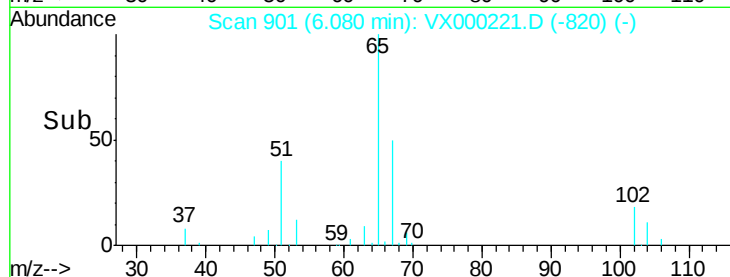
10000

5000

0

6.00 6.10 6.20

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

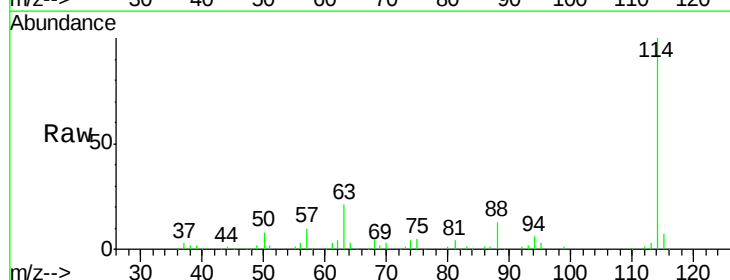
Tgt Ion: 114 Resp: 126816

Ion Ratio Lower Upper

114 100

63 20.3 15.0 22.4

88 14.2 11.8 17.8



Abundance Ion 114.00 (113.70 to 114.70): VX000106.D (-1021) (-)

Ion 63.00 (62.70 to 63.70): VX000106.D (-1021) (-)

Ion 88.00 (87.70 to 88.70): VX000106.D (-1021) (-)

6.87

60000

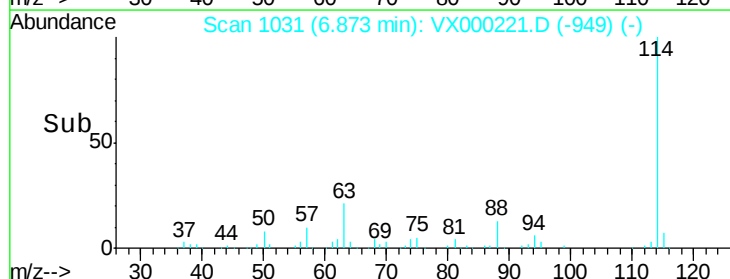
40000

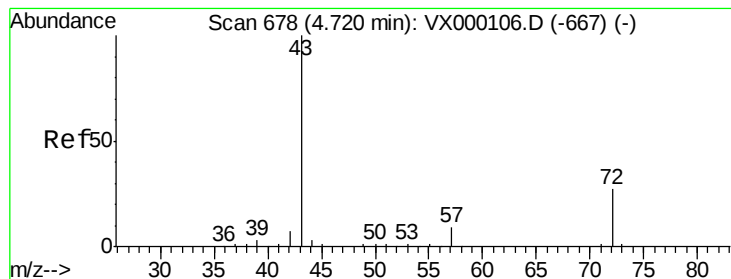
20000

0

6.80 6.85 6.90 6.95

Time-->





#30

2-Butanone

Concen: 18.215 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.00 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

Instrument :

MSVOA_X

ClientSampleId :

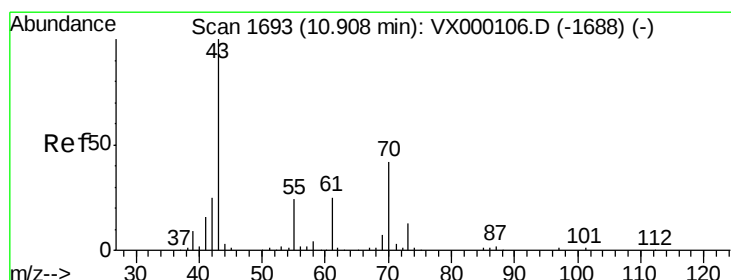
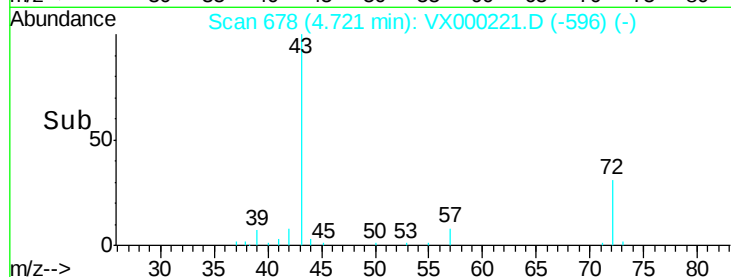
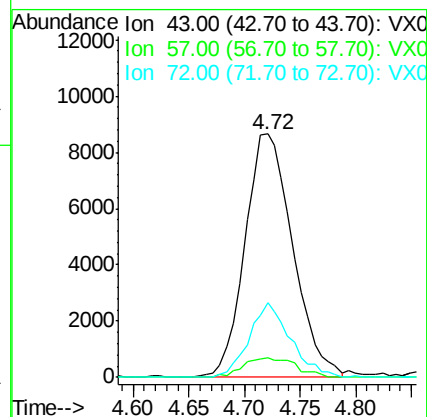
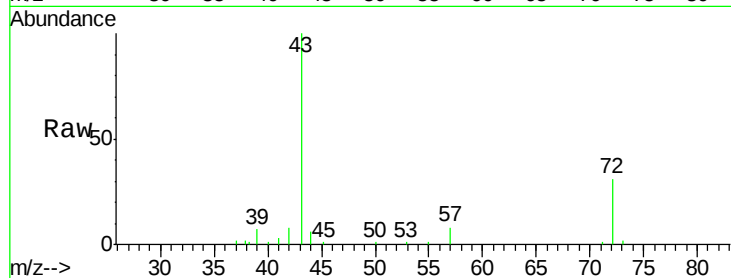
Tot Ion: 43 Resp: 25894

Ion Ratio Lower Upper

43 100

57 5.4 6.6 10.0#

72 26.5 21.8 32.6



#47

n-aryl Acetate

Concen: 0.367 ug/l

RT: 10.57 min Scan# 1637

Delta R.T. -0.34 min

Lab File: VX000221.D

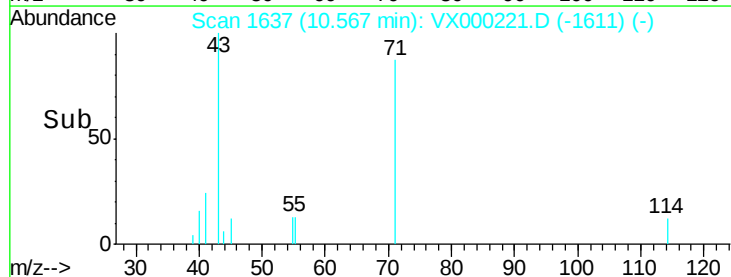
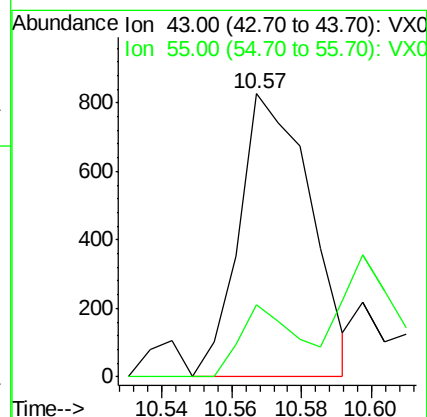
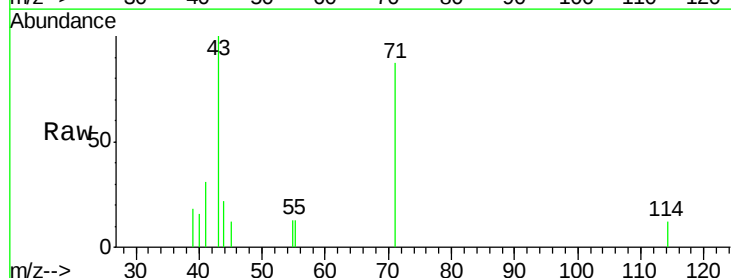
Acq: 08 Mar 2018 13:47

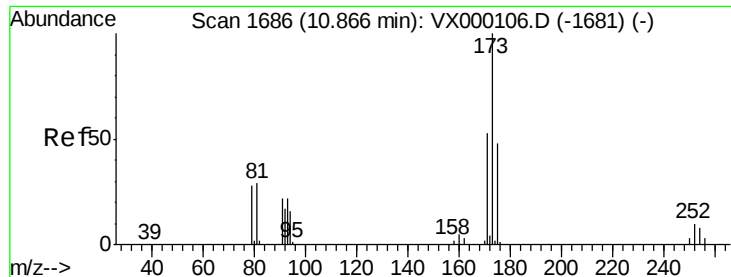
Tgt Ion: 43 Resp: 1173

Ion Ratio Lower Upper

43 100

55 20.7 19.4 29.2





#56

Bromoform

Concen: 0.420 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.28 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

Instrument :

MSVOA_X

ClientSampleId :

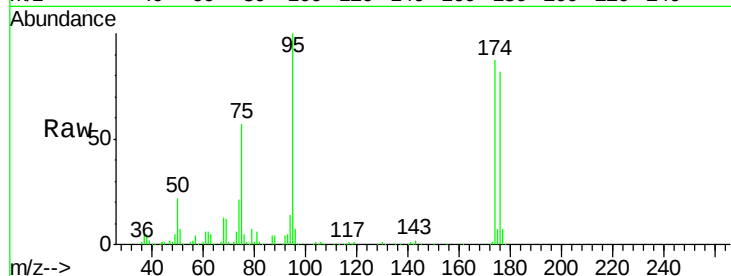
Tot Ion:173 Resp: 568

Ion Ratio Lower Upper

173 100

175 700.5 39.0 58.4#

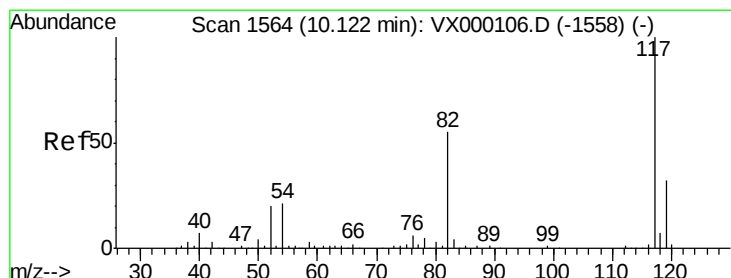
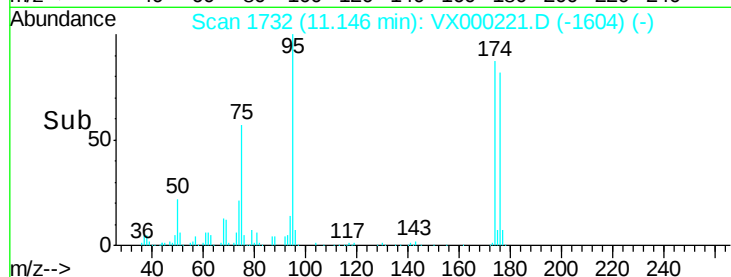
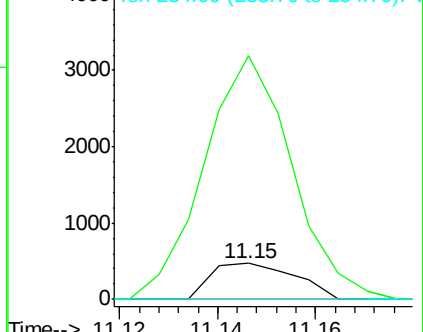
254 0.0 7.0 10.4#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

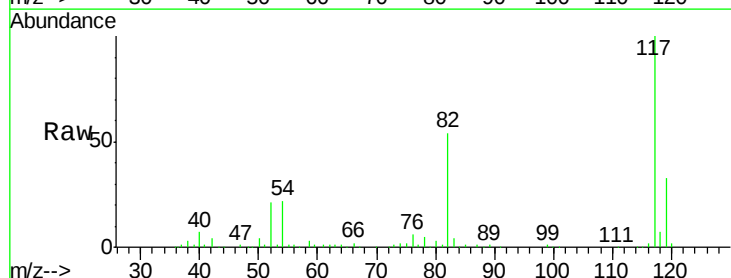
Tgt Ion:117 Resp: 120889

Ion Ratio Lower Upper

117 100

82 53.8 43.0 64.4

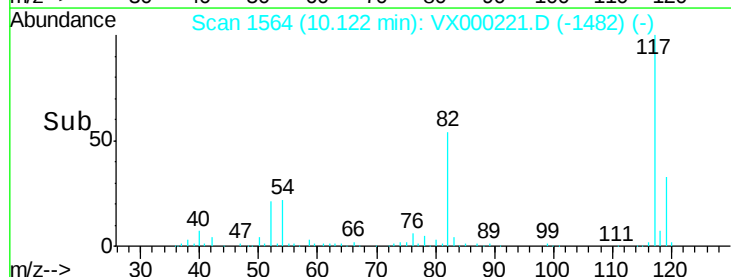
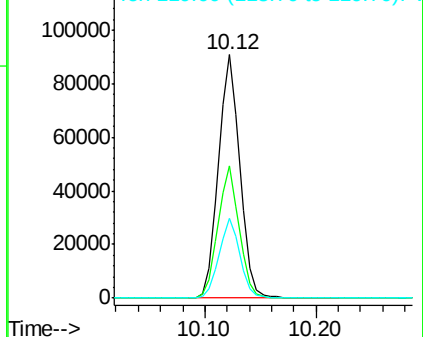
119 32.0 25.8 38.8

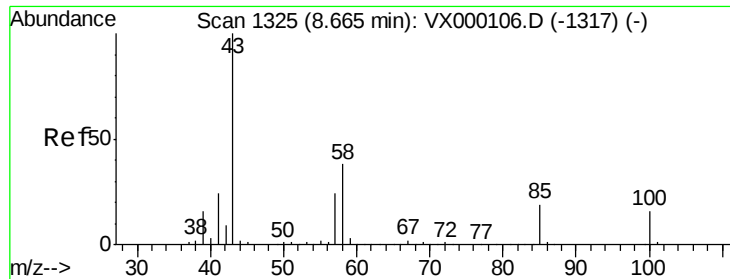


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

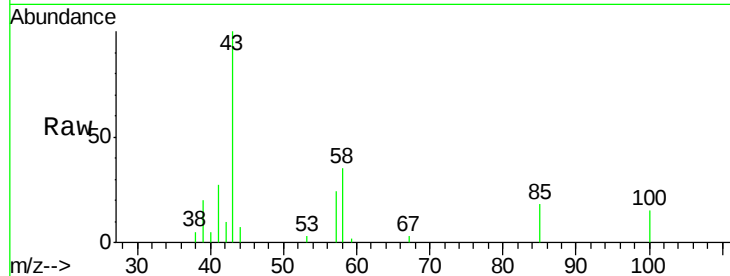




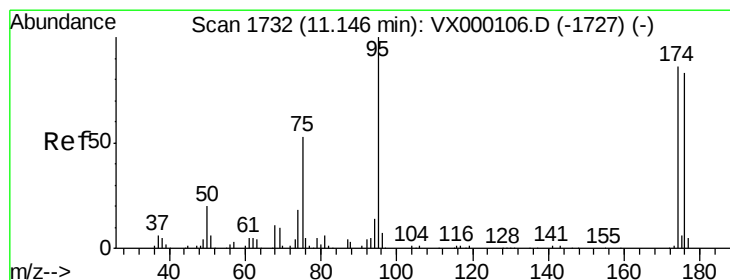
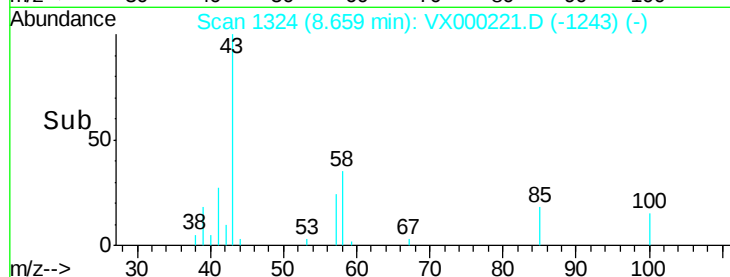
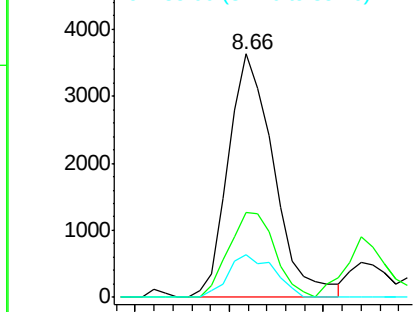
#58
4-Methyl-2-Pentanone
Concen: 2.311 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. -0.01 min
Lab File: VX000221.D
Acq: 08 Mar 2018 13:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 6120
Ion Ratio Lower Upper
43 100
58 35.2 29.8 44.8
85 17.8 14.9 22.3

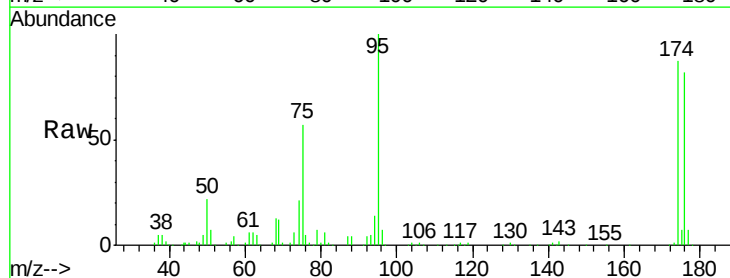


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 85.00 (84.70 to 85.70): VX0

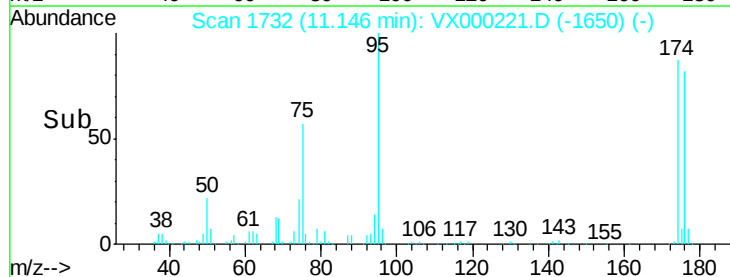
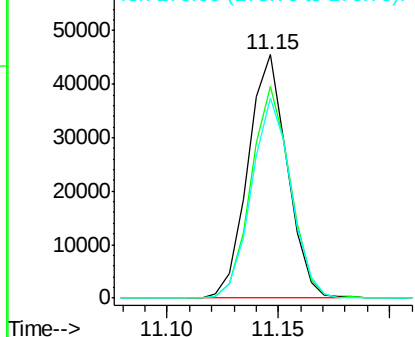


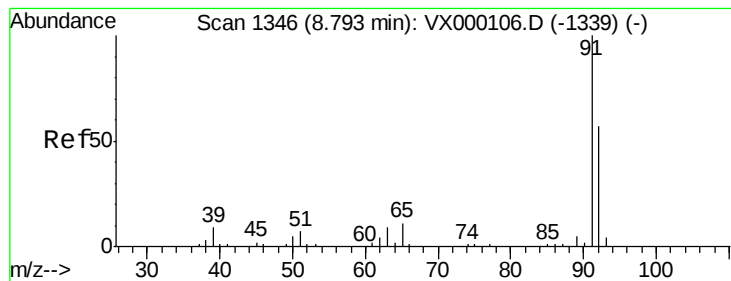
#60
4-Bromofluorobenzene
Concen: 28.402 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VX000221.D
Acq: 08 Mar 2018 13:47

Tgt Ion: 95 Resp: 56170
Ion Ratio Lower Upper
95 100
174 85.7 71.1 106.7
176 82.4 69.3 103.9



Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 6.070 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

Instrument :

MSVOA_X

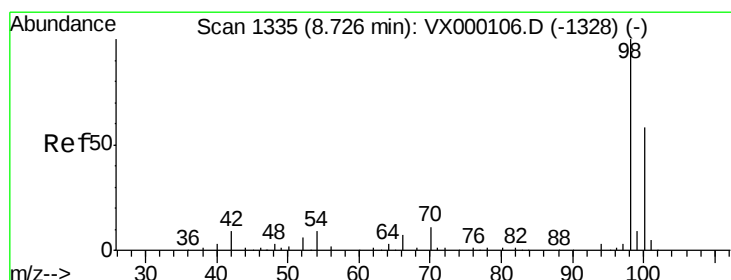
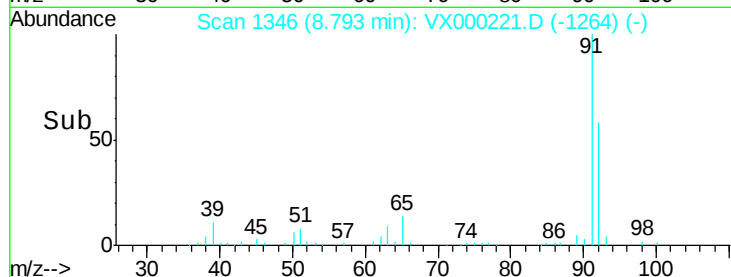
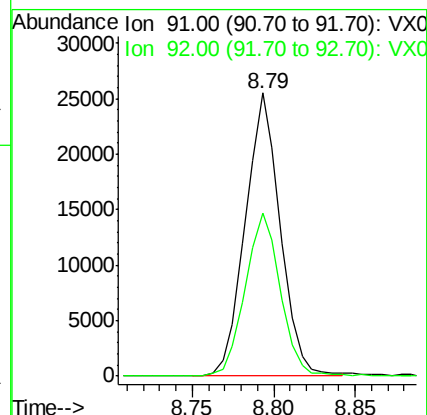
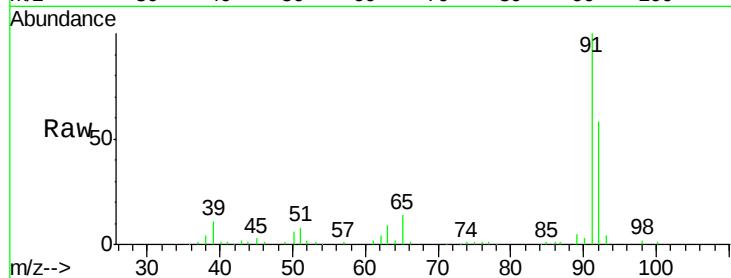
ClientSampled :

Tot Ion: 91 Resp: 38177

Ion Ratio Lower Upper

91 100

92 57.3 45.4 68.0



#63

Toluene-d8

Concen: 29.941 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VX000221.D

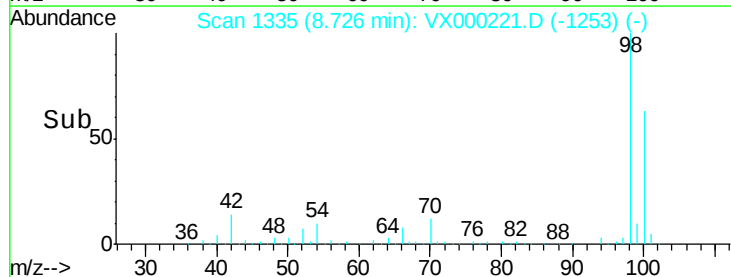
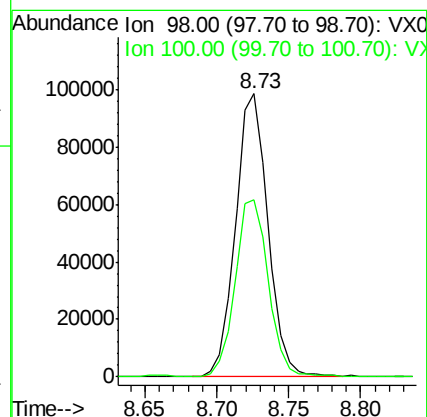
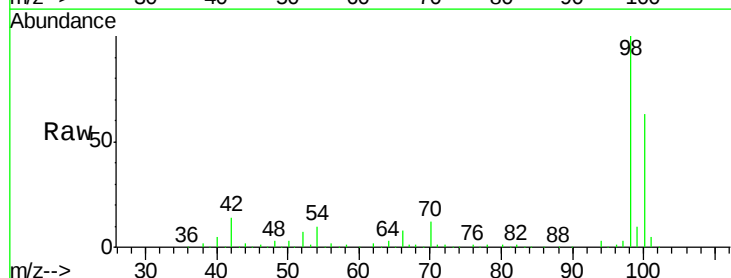
Acq: 08 Mar 2018 13:47

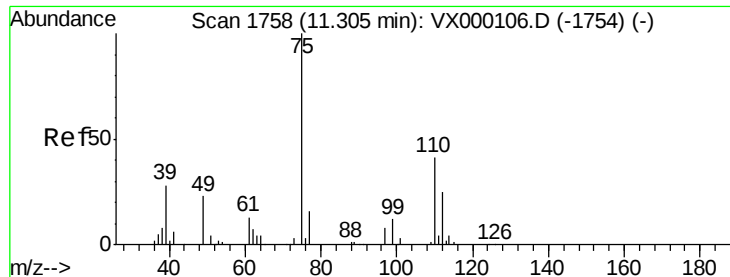
Tgt Ion: 98 Resp: 155041

Ion Ratio Lower Upper

98 100

100 64.2 50.0 75.0





#72

1,2,3-Trichloropropane

Concen: 14.197 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

Instrument :

MSVOA_X

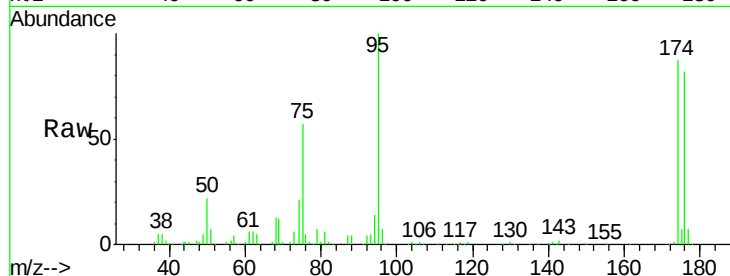
ClientSampled :

Tot Ion: 75 Resp: 32380

Ion Ratio Lower Upper

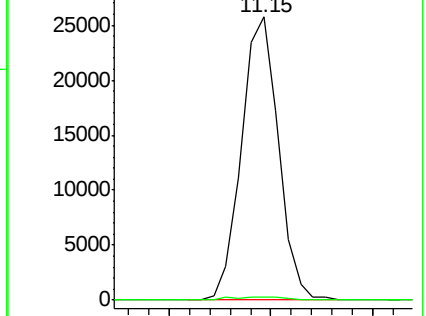
75 100

77 1.1 0.0 85.8

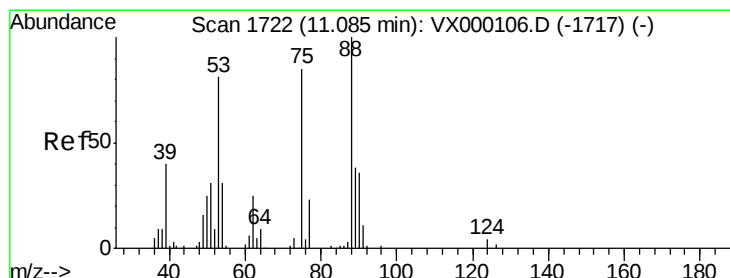
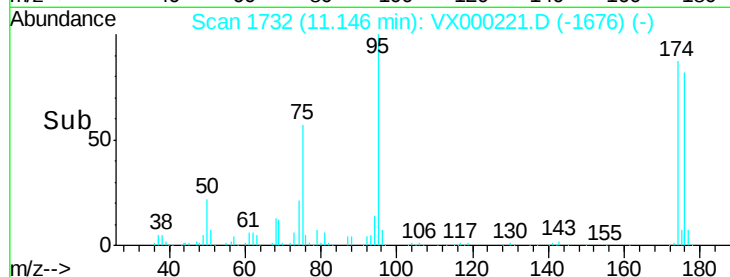


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 40.146 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

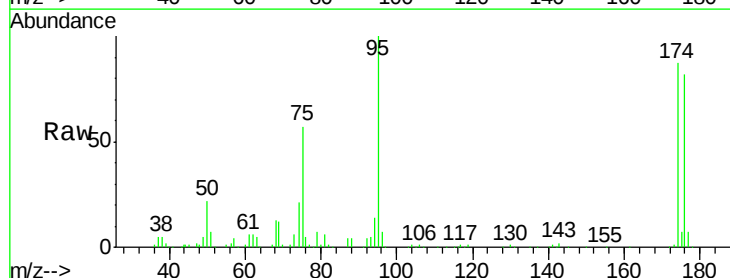
Tgt Ion: 75 Resp: 32380

Ion Ratio Lower Upper

75 100

53 0.0 47.8 143.3#

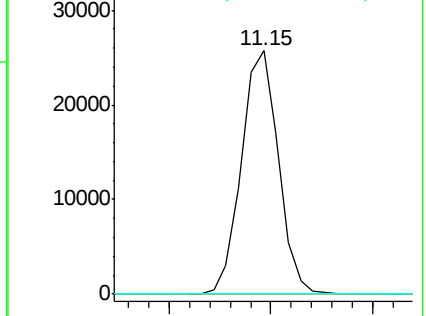
89 0.0 22.3 66.8#



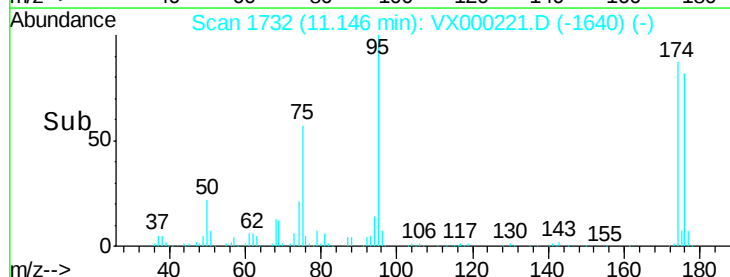
Abundance Ion 75.00 (74.70 to 75.70): VX0

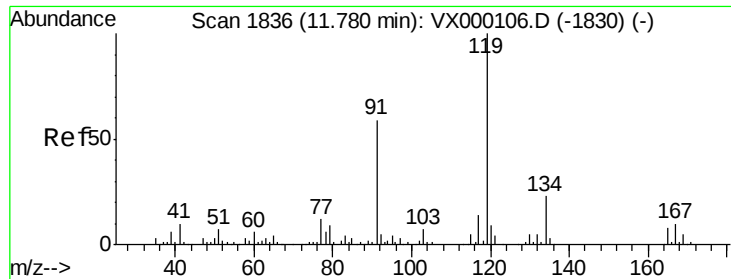
Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0



Time-->

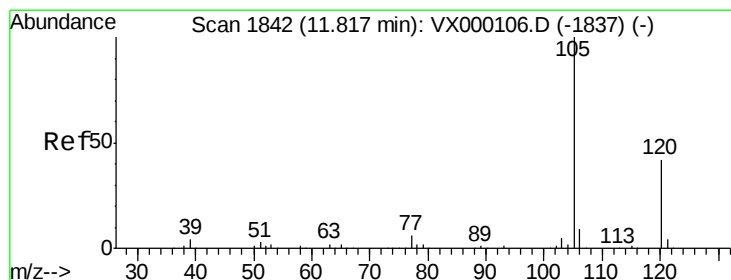
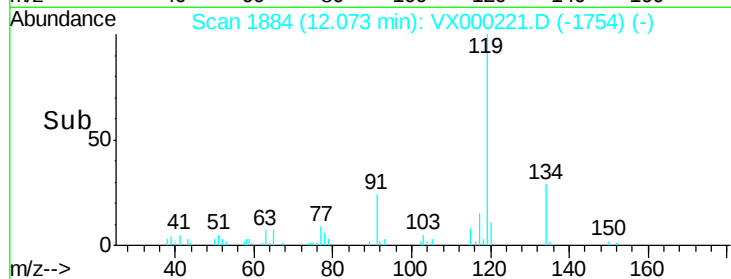
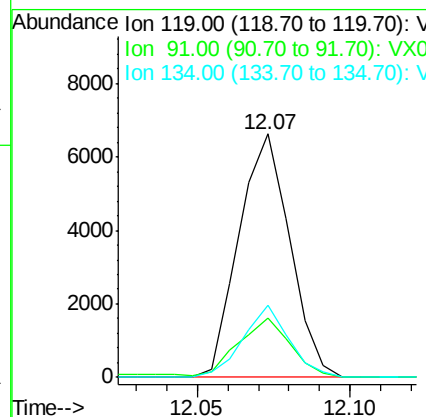
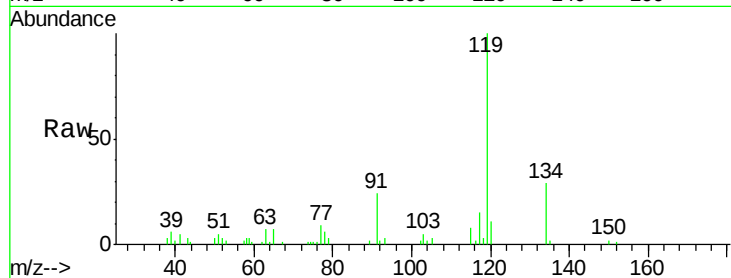




#79
tert-butylbenzene
Concen: 1.227 ug/l
RT: 12.07 min Scan# 1884
Delta R.T. 0.29 min
Lab File: VX000221.D
Acq: 08 Mar 2018 13:47

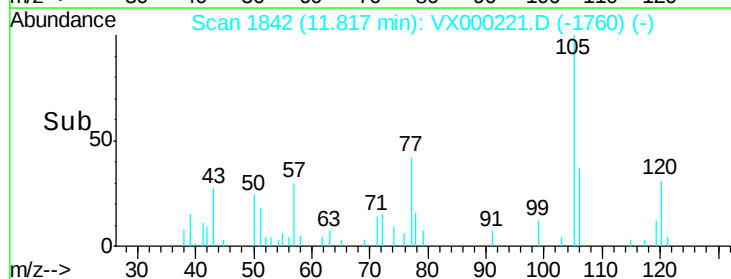
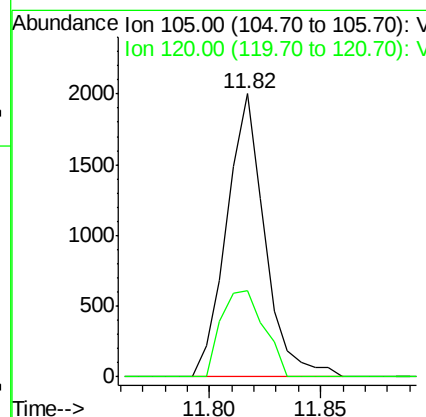
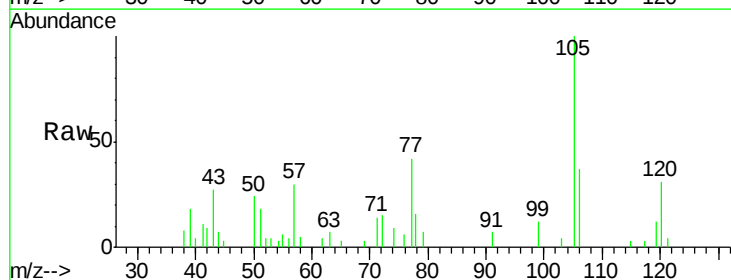
Instrument :
MSVOA_X
ClientSampled :

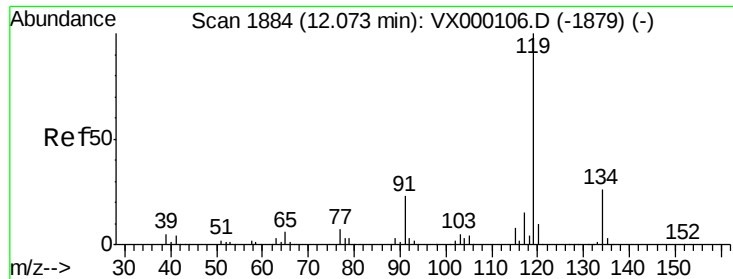
Tot Ion:119 Resp: 7651
Ion Ratio Lower Upper
119 100
91 25.1 0.0 51.6
134 26.7 0.0 60.2



#80
1,2,4-Trimethylbenzene
Concen: 0.374 ug/l
RT: 11.82 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX000221.D
Acq: 08 Mar 2018 13:47

Tgt Ion:105 Resp: 2389
Ion Ratio Lower Upper
105 100
120 34.0 0.0 93.0





#82

p-Isopropyltoluene

Concen: 1.113 ug/l

RT: 12.07 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

Instrument :

MSVOA_X

ClientSampleId :

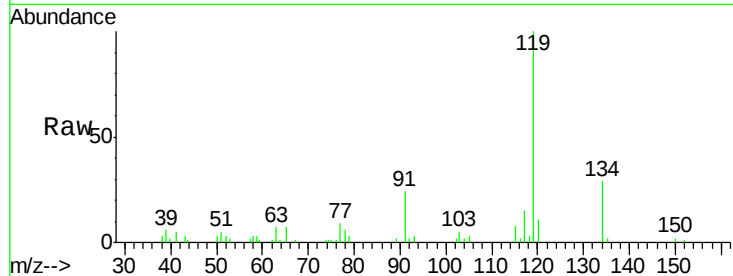
Tot Ion:119 Resp: 7651

Ion Ratio Lower Upper

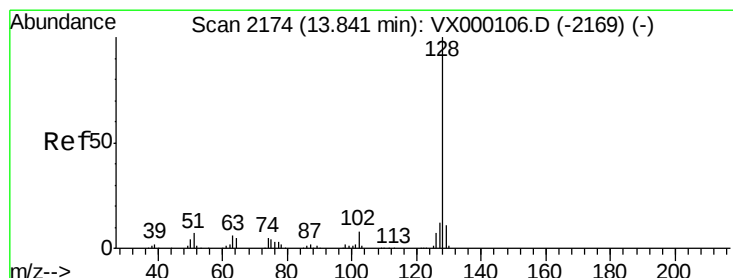
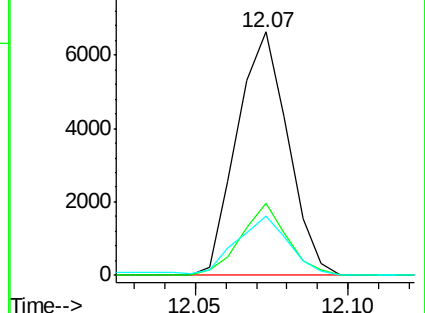
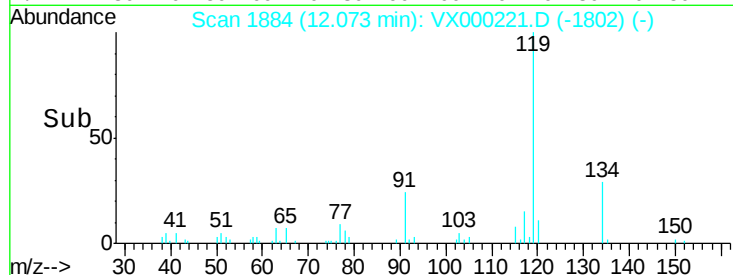
119 100

134 26.7 0.0 54.4

91 25.1 0.0 46.6



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



#91

Naphthalene

Concen: 0.290 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX000221.D

Acq: 08 Mar 2018 13:47

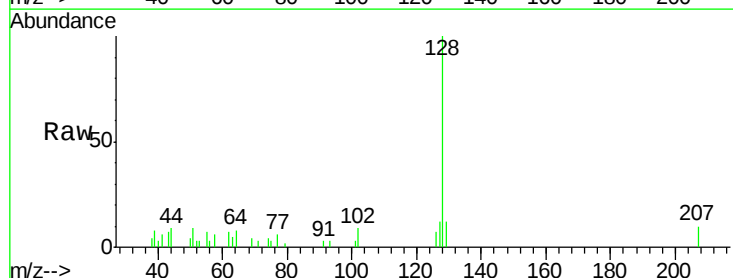
Tgt Ion:128 Resp: 2725

Ion Ratio Lower Upper

128 100

127 14.9 10.5 15.7

129 12.1 9.0 13.6



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

