

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004078.D
 Acq On : 15 Aug 2018 17:48
 Operator : JC/MD
 Sample : J4428-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF1-0038

Quant Time: Aug 16 06:01:33 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	266310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	404760	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	386025	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	197639	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	194203	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
35) Dibromofluoromethane	5.51	113	161110	53.18	ug/l	0.00
Spiked Amount			Recovery	=	106.36%	
50) Toluene-d8	8.72	98	578646	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	
62) 4-Bromofluorobenzene	11.14	95	197107	44.25	ug/l	0.00
Spiked Amount			Recovery	=	88.50%	

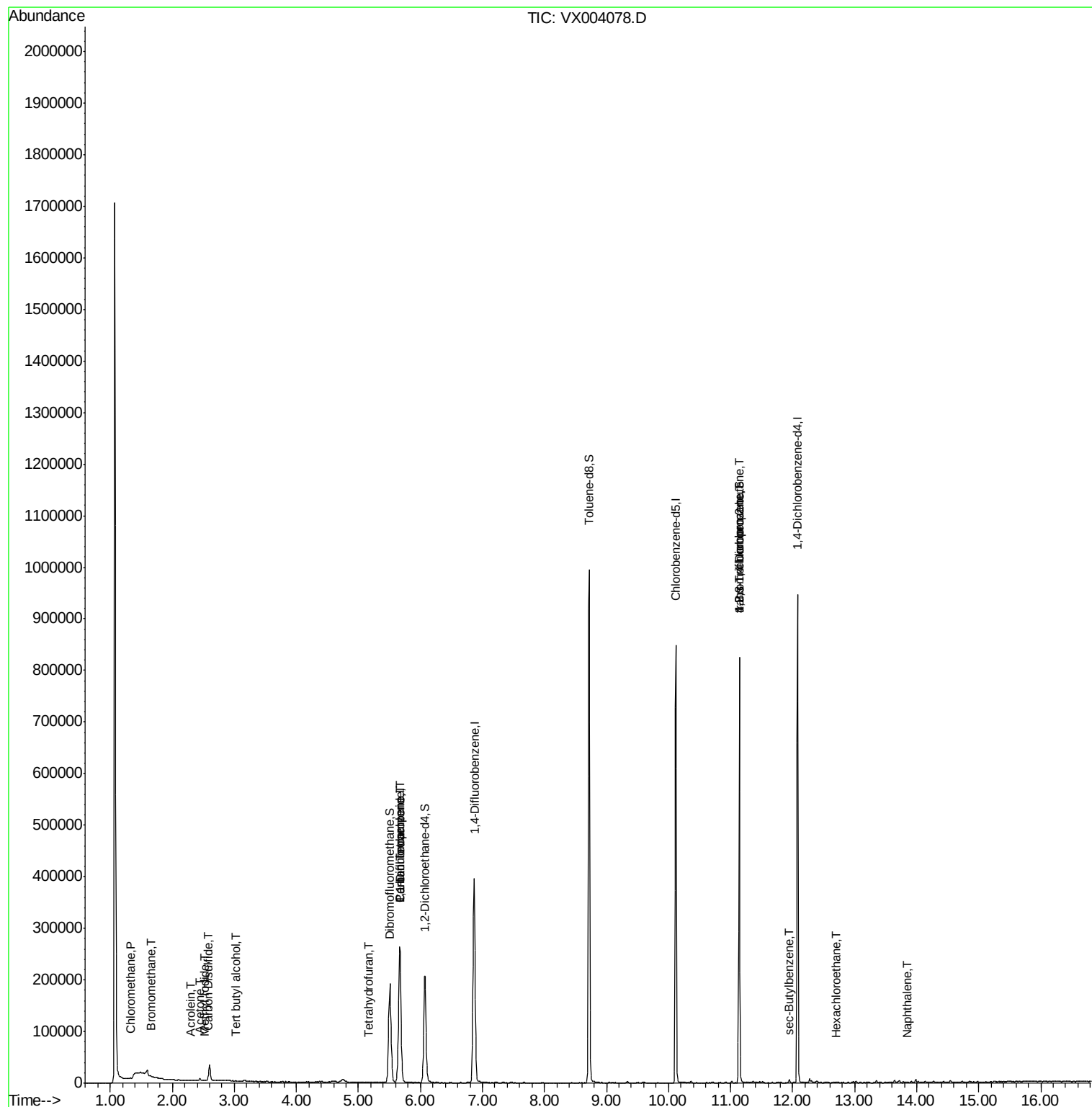
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	911	0.29	ug/l	97
5) Bromomethane	1.65	94	1254	0.54	ug/l	97
10) Methyl Iodide	2.52	142	1137	5.33	ug/l	95
11) Tert butyl alcohol	3.03	59	467	0.62	ug/l #	73
13) Acrolein	2.29	56	139	11.21	ug/l #	57
16) Acetone	2.44	43	4612	2.36	ug/l	100
17) Carbon Disulfide	2.57	76	2794	0.35	ug/l #	91
20) Methylene Chloride	2.86	84	306	Below Cal	#	50
29) Tetrahydrofuran	5.15	42	705	0.43	ug/l #	31
36) 1,1-Dichloropropene	5.67	75	18080	3.93	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23779	5.31	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	95348	24.06	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	95348	74.47	ug/l #	9
85) sec-Butylbenzene	11.94	105	2622	0.20	ug/l	99
90) Hexachloroethane	12.71	117	565	0.32	ug/l #	4
95) Naphthalene	13.83	128	1095	1.22	ug/l #	93

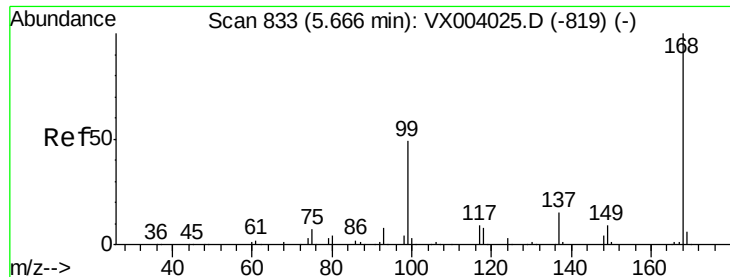
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampleId :

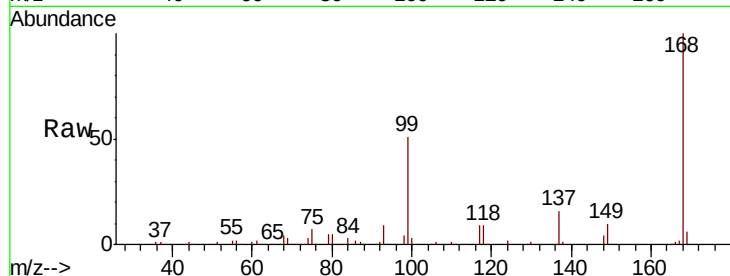
LF1-0038

Tot Ion:168 Resp: 266310

Ion Ratio Lower Upper

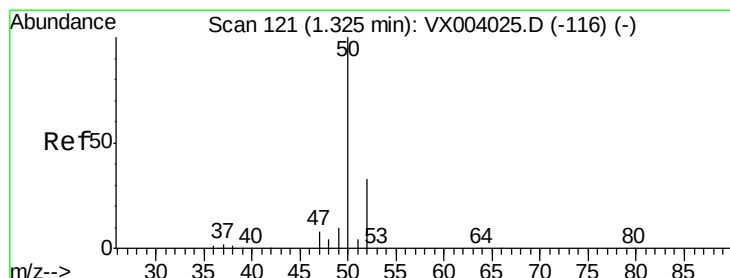
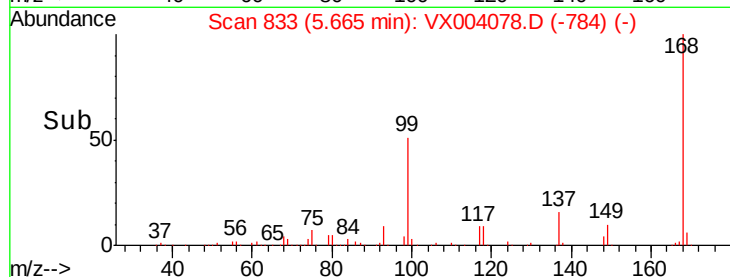
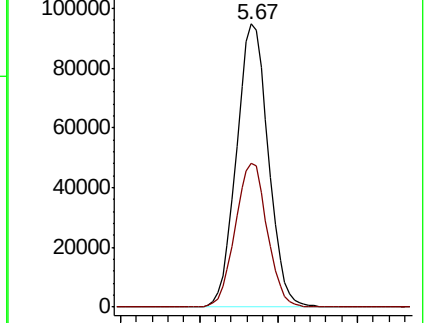
168 100

99 50.7 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.29 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004078.D

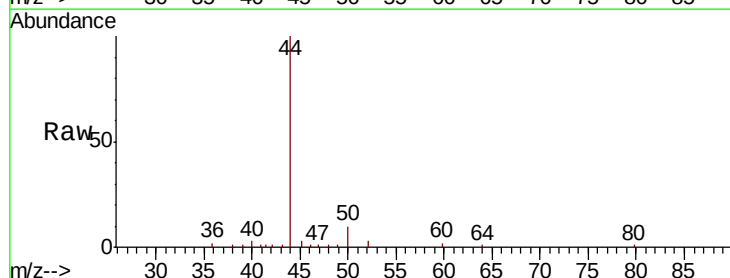
Acq: 15 Aug 2018 17:48

Tgt Ion: 50 Resp: 911

Ion Ratio Lower Upper

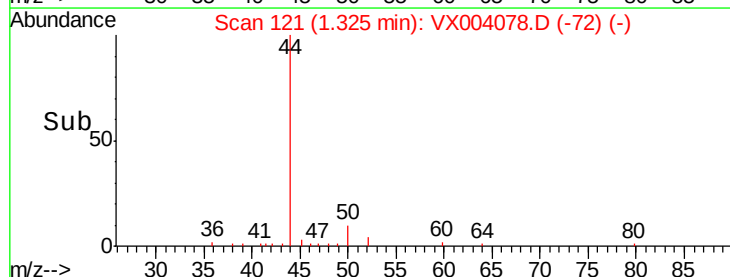
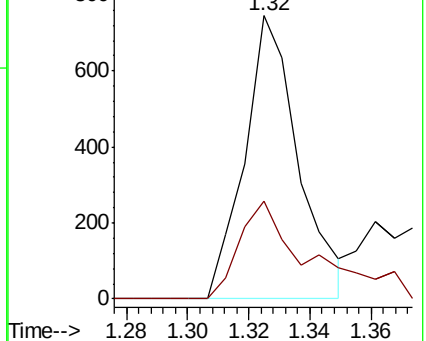
50 100

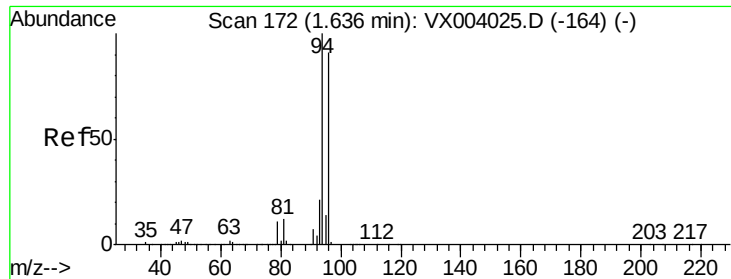
52 34.8 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.54 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

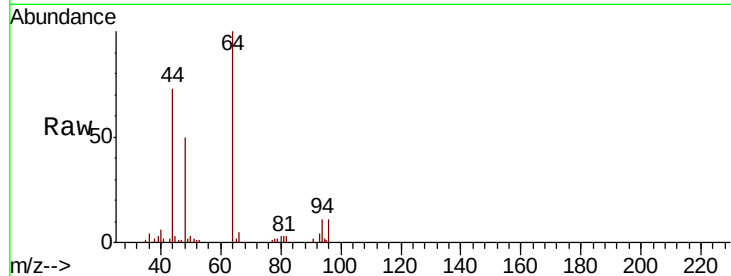
LF1-0038

Tot Ion: 94 Resp: 1254

Ion Ratio Lower Upper

94 100

96 96.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

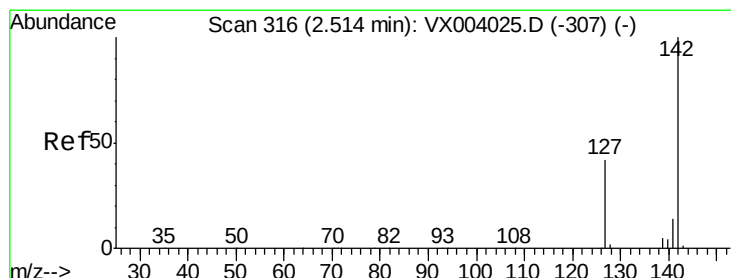
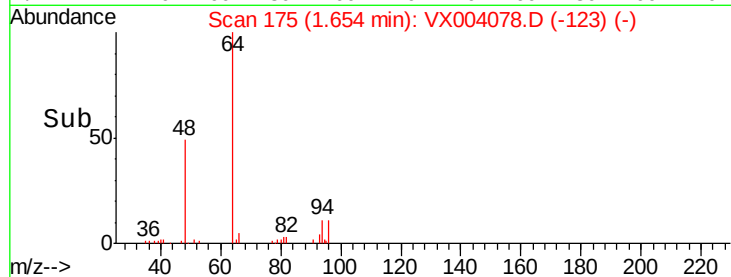
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 5.33 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

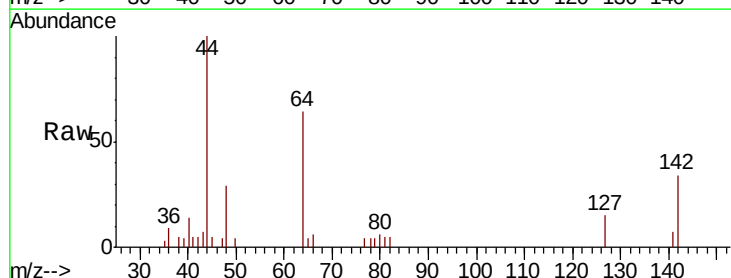
Tgt Ion: 142 Resp: 1137

Ion Ratio Lower Upper

142 100

127 44.6 33.1 49.7

141 12.8 11.1 16.7



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

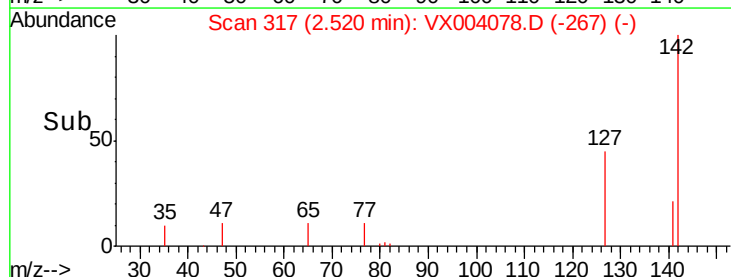
600

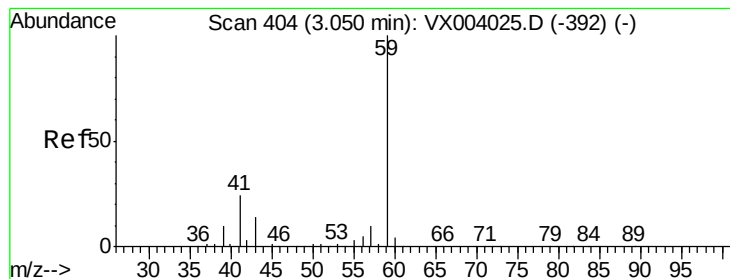
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 0.62 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.02 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

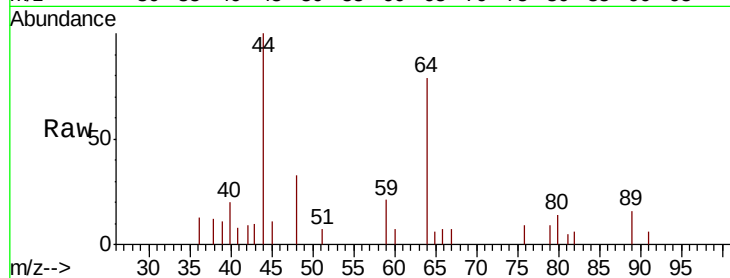
LF1-0038

Tot Ion: 59 Resp: 467

Ion Ratio Lower Upper

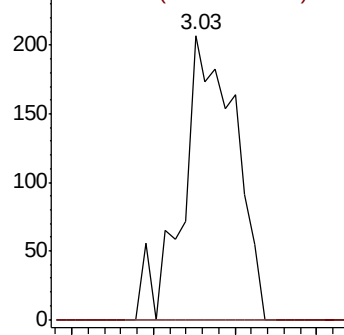
59 100

57 0.0 8.1 12.1#

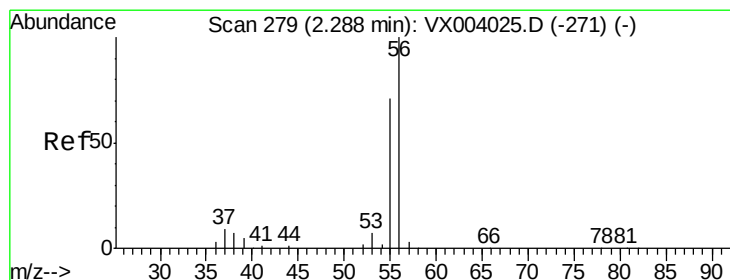
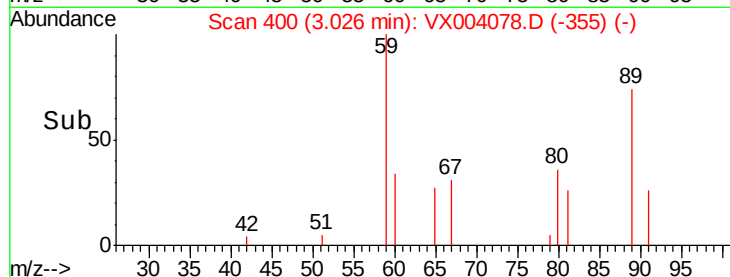


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#13

Acrolein

Concen: 11.21 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004078.D

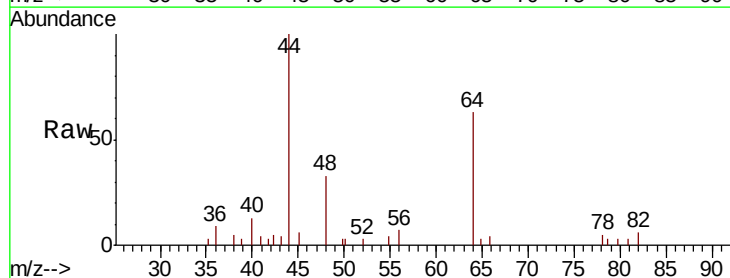
Acq: 15 Aug 2018 17:48

Tgt Ion: 56 Resp: 139

Ion Ratio Lower Upper

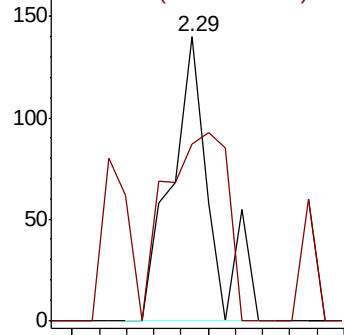
56 100

55 105.8 56.1 84.1#

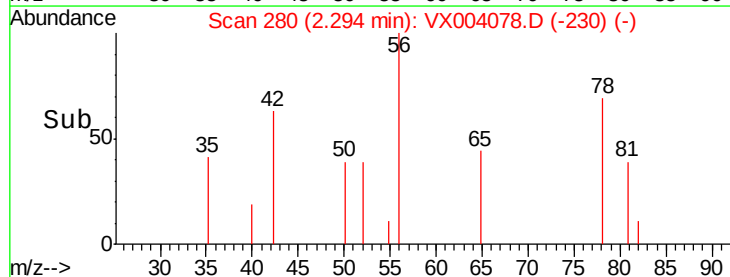


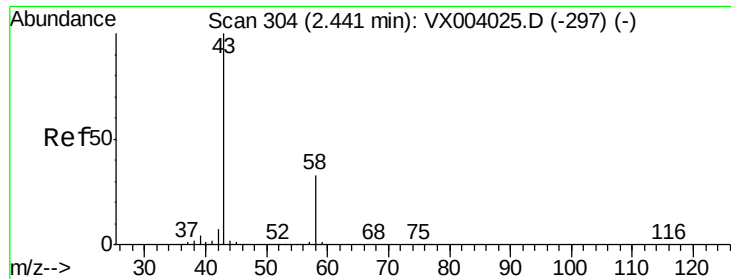
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->





#16

Acetone

Concen: 2.36 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampleId :

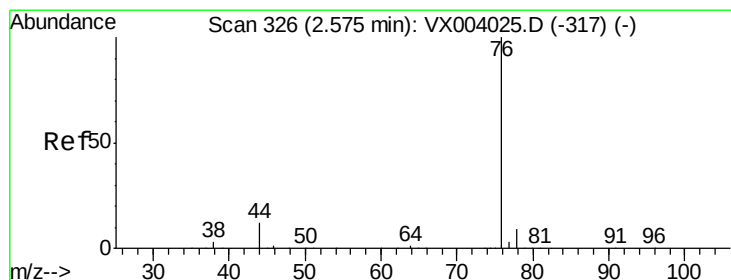
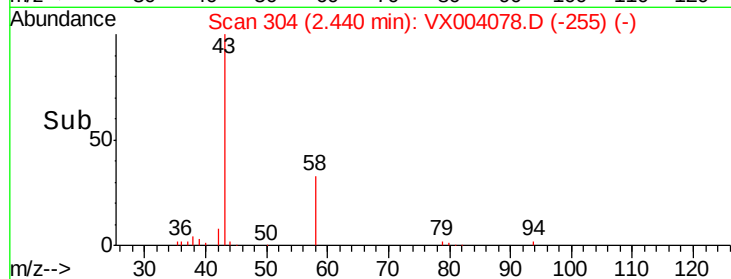
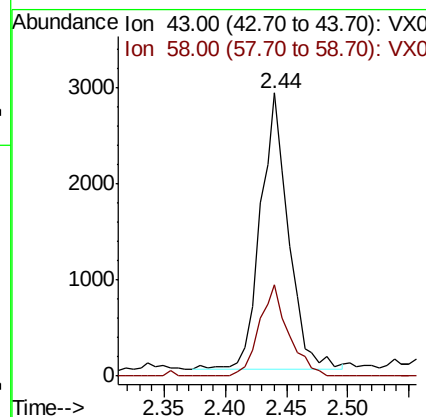
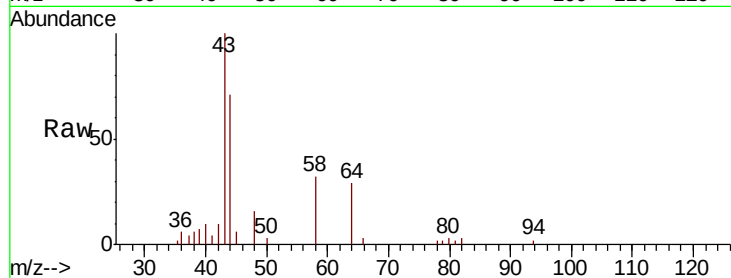
LF1-0038

Tot Ion: 43 Resp: 4612

Ion Ratio Lower Upper

43 100

58 33.1 26.4 39.6



#17

Carbon Disulfide

Concen: 0.35 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX004078.D

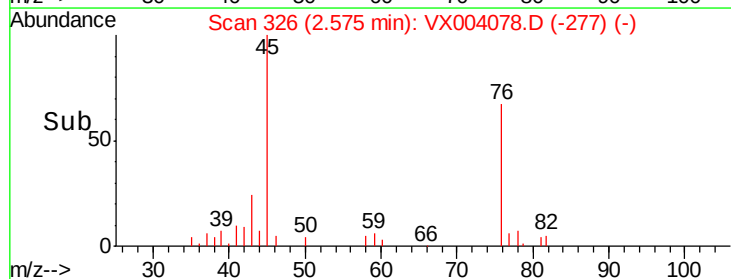
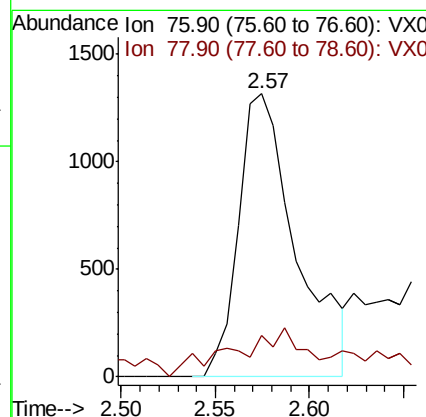
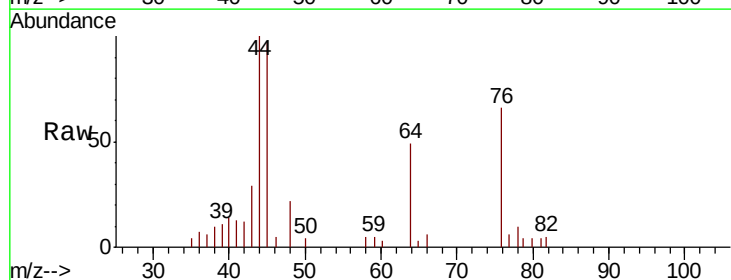
Acq: 15 Aug 2018 17:48

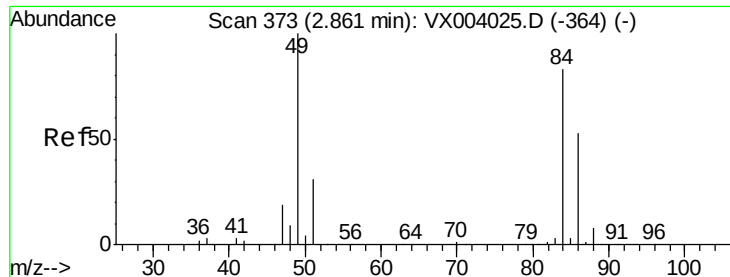
Tgt Ion: 76 Resp: 2794

Ion Ratio Lower Upper

76 100

78 6.2 7.5 11.3#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampleId :

LF1-0038

Tot Ion: 84 Resp: 306

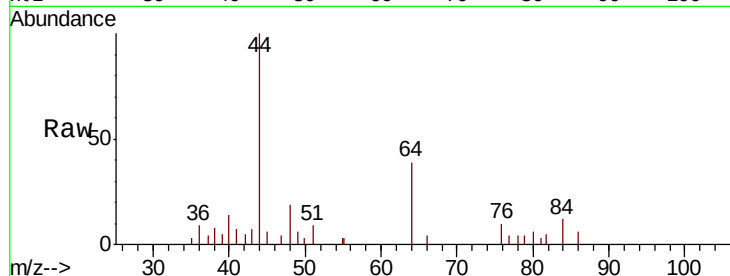
Ion Ratio Lower Upper

84 100

49 51.8 98.9 148.3#

51 77.5 29.9 44.9#

86 51.8 51.0 76.6

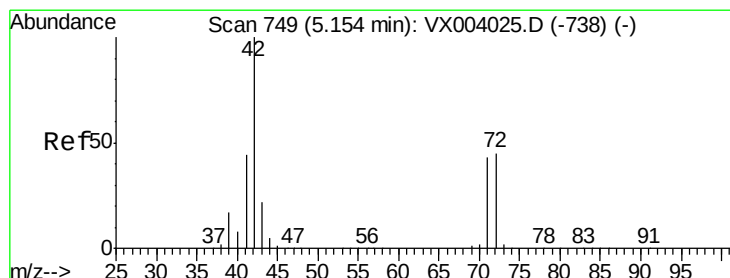
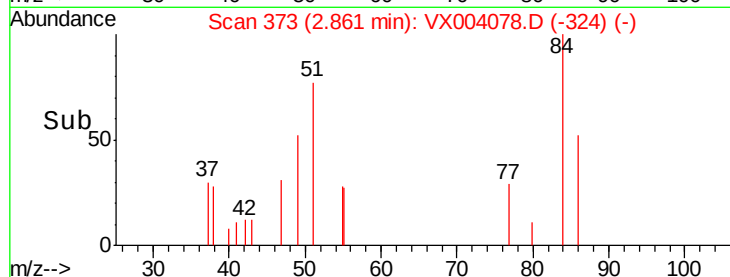
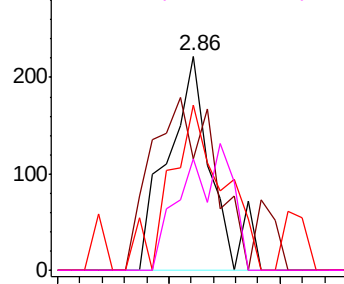


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#29

Tetrahydrofuran

Concen: 0.43 ug/l

RT: 5.15 min Scan# 749

Delta R.T. -0.00 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

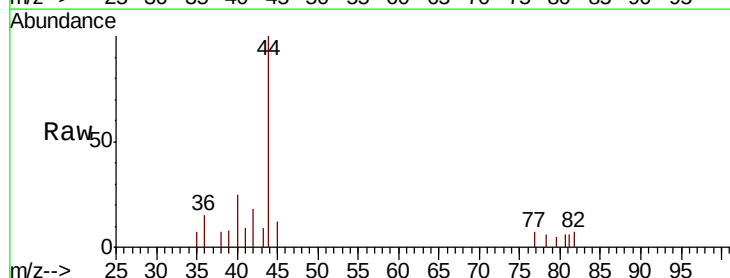
Tgt Ion: 42 Resp: 705

Ion Ratio Lower Upper

42 100

72 0.0 37.7 56.5#

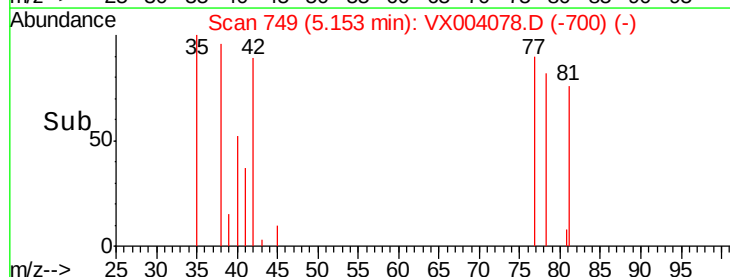
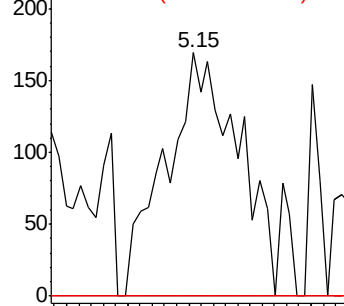
71 0.0 35.0 52.6#

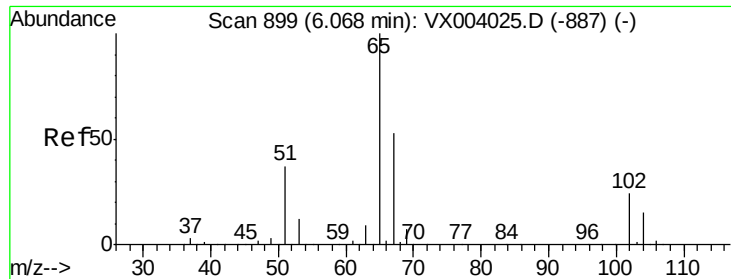


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

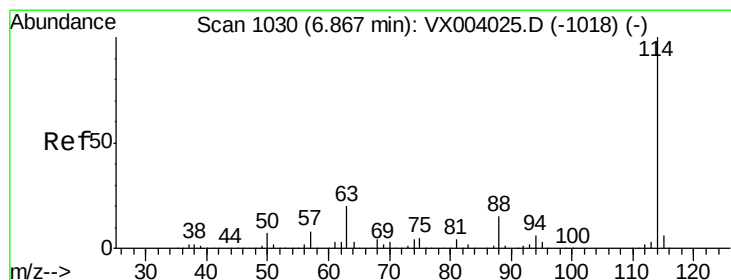
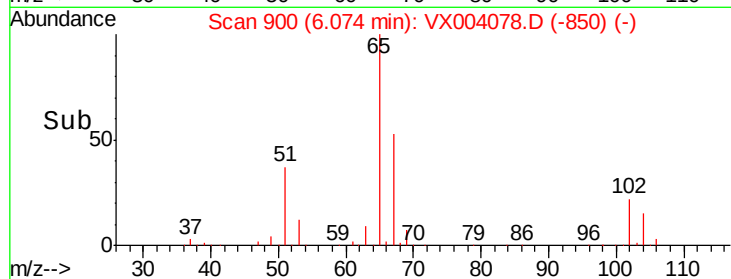
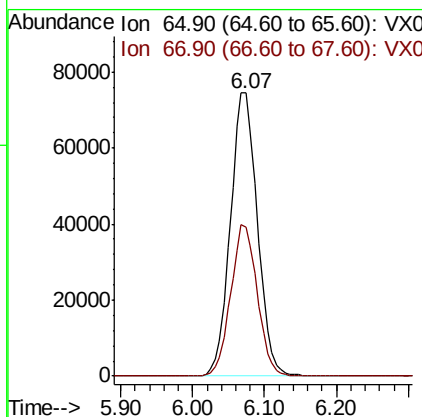
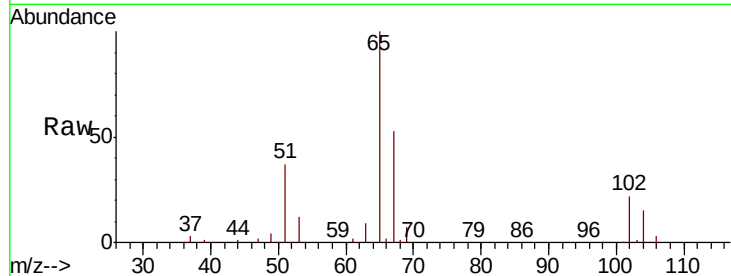




#33
 1,2-Dichloroethane-d4
 Concen: 51.76 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX004078.D
 Acq: 15 Aug 2018 17:48

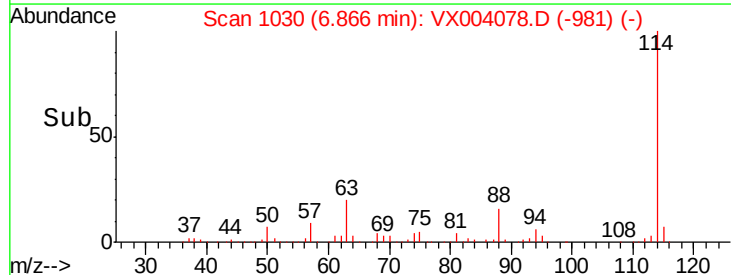
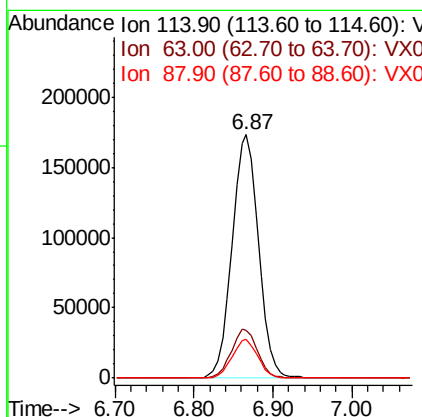
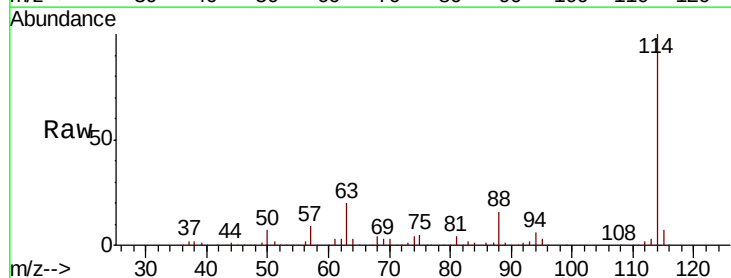
Instrument :
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 LF1-0038

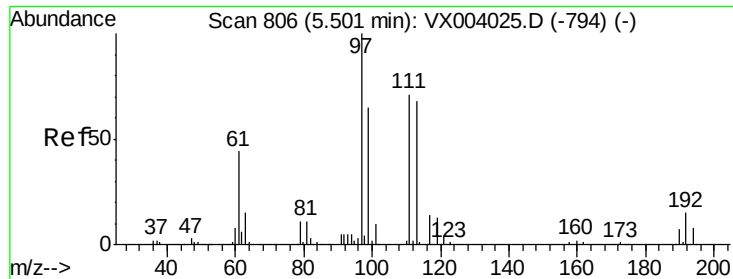
Tot Ion: 65 Resp: 194203
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004078.D
 Acq: 15 Aug 2018 17:48

Tgt Ion: 114 Resp: 404760
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 15.7 0.0 32.0

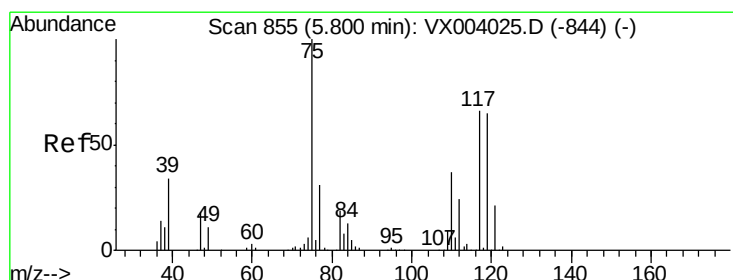
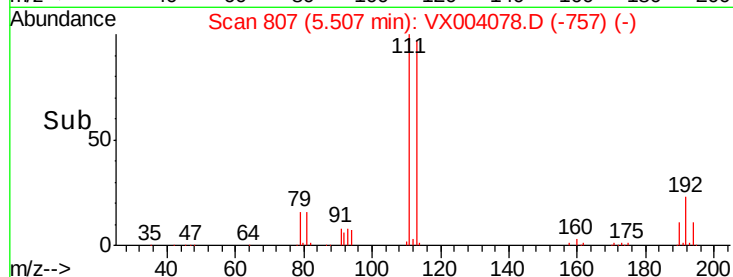
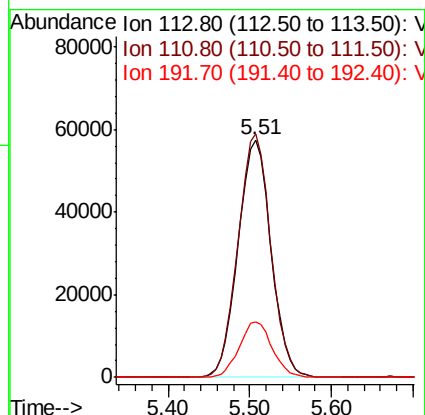
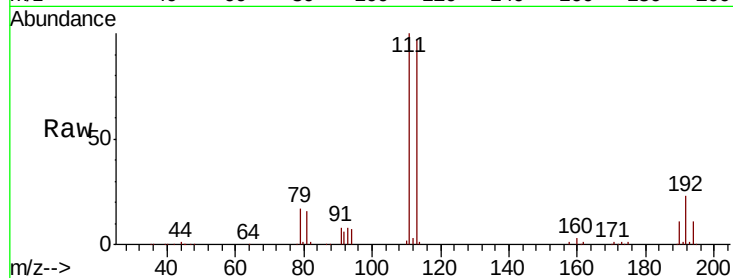




#35
 Dibromofluoromethane
 Concen: 53.18 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004078.D
 Acq: 15 Aug 2018 17:48

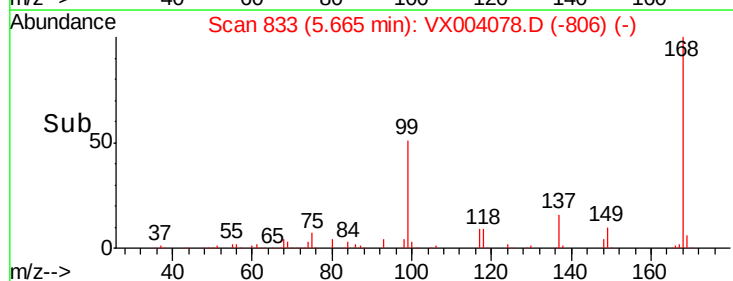
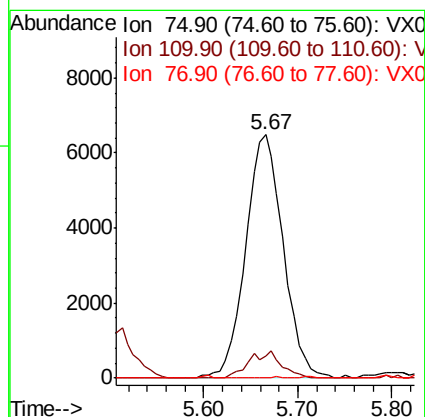
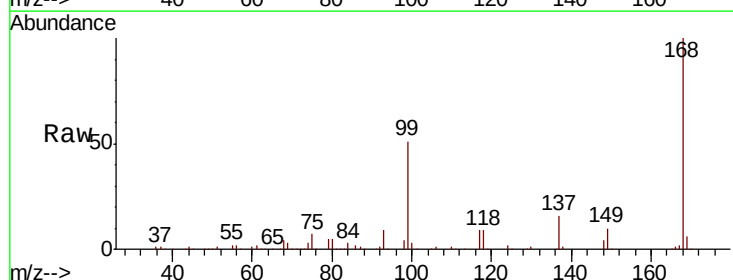
Instrument :
 MSVOA_X
 ClientSampleId :
 LF1-0038

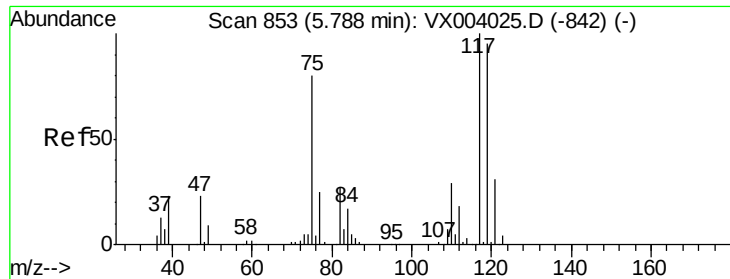
Tot Ion:113 Resp: 161110
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.0 123.0
 192 23.2 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 3.93 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004078.D
 Acq: 15 Aug 2018 17:48

Tgt Ion: 75 Resp: 18080
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.2 54.6#
 77 0.1 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.31 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

LF1-0038

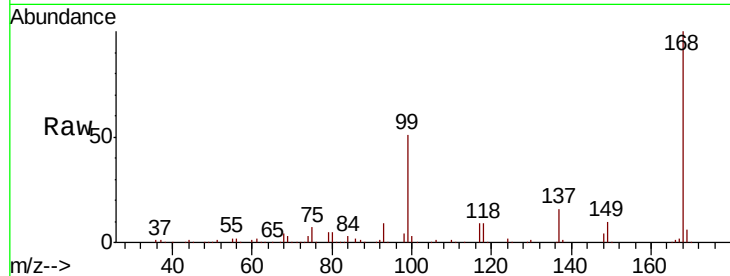
Tot Ion:117 Resp: 23779

Ion Ratio Lower Upper

117 100

119 5.2 79.5 119.3#

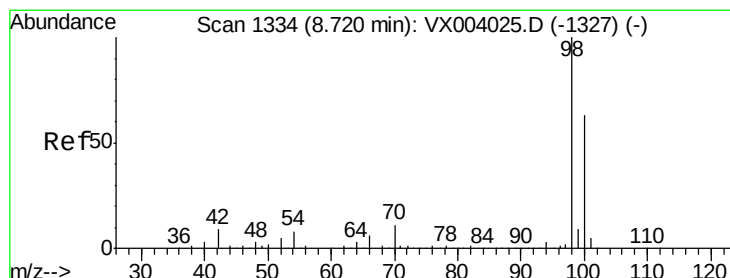
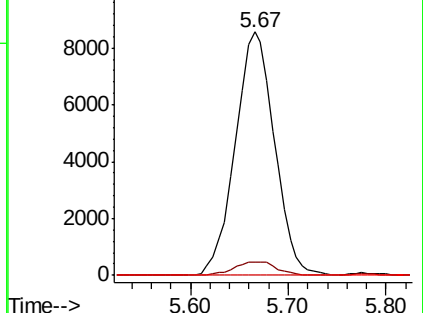
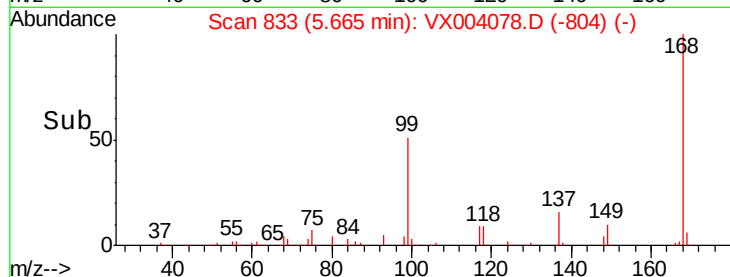
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 47.11 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004078.D

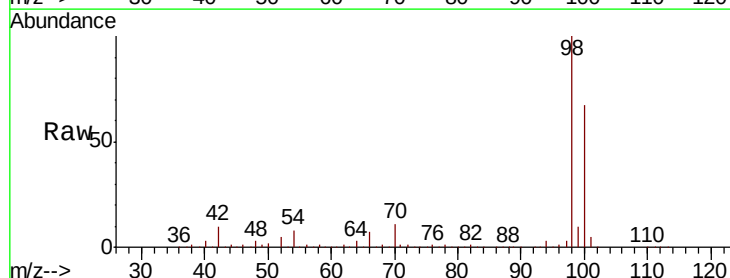
Acq: 15 Aug 2018 17:48

Tgt Ion: 98 Resp: 578646

Ion Ratio Lower Upper

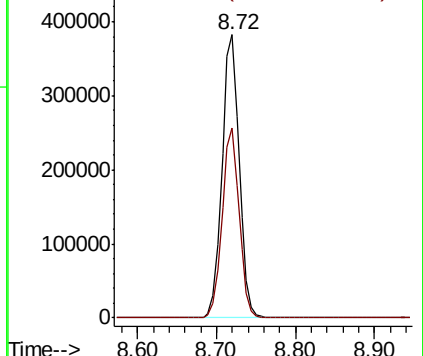
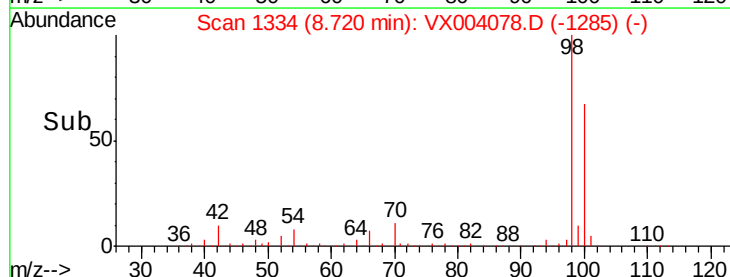
98 100

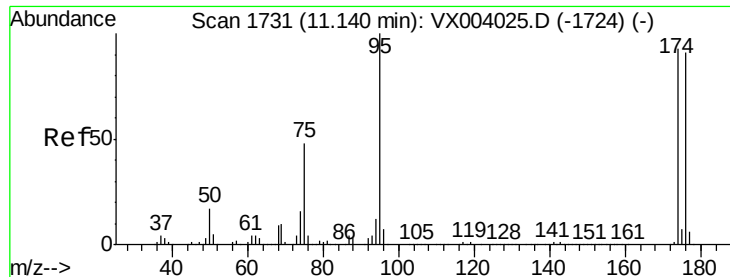
100 66.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampleId :

LF1-0038

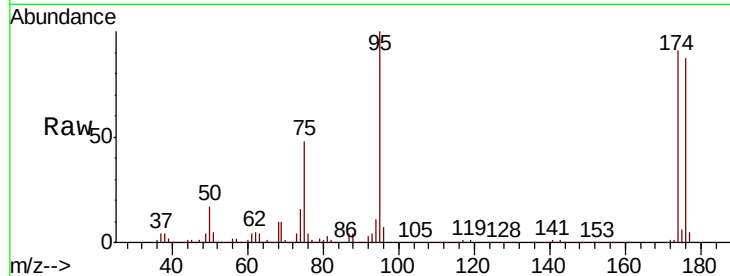
Tot Ion: 95 Resp: 197107

Ion Ratio Lower Upper

95 100

174 91.3 0.0 182.8

176 87.8 0.0 179.0



Abundance Ion 94.90 (94.60 to 95.60): VX004025.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX004025.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX004025.D (-1724) (-)

11.14

200000

150000

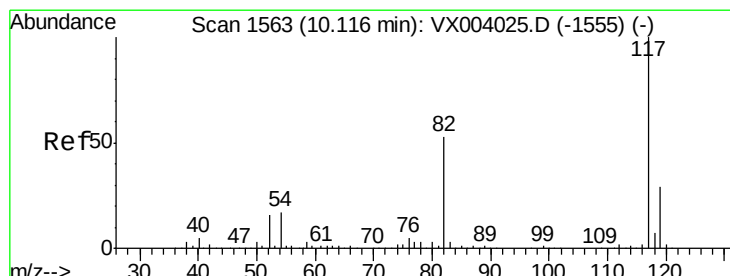
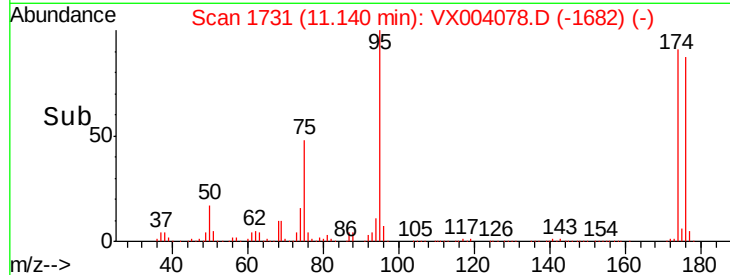
100000

50000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

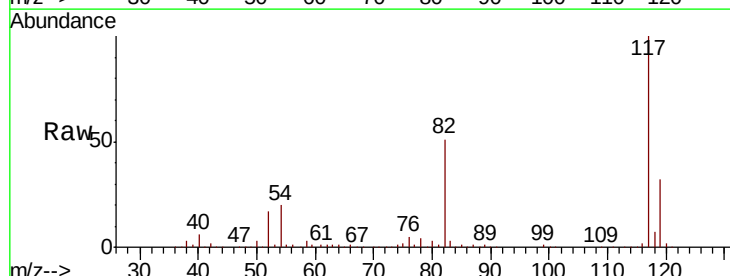
Tgt Ion: 117 Resp: 386025

Ion Ratio Lower Upper

117 100

82 51.0 45.4 68.0

119 32.1 26.6 40.0



Abundance Ion 116.90 (116.60 to 117.60): VX004025.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX004025.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX004025.D (-1555) (-)

10.12

400000

300000

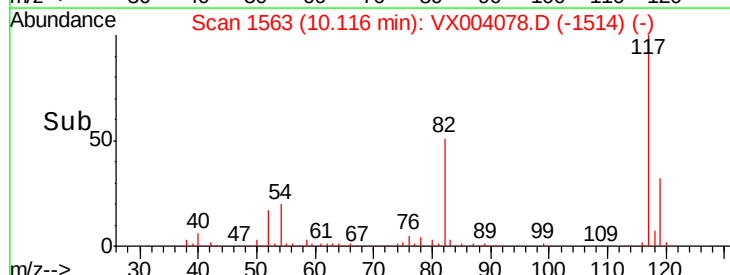
200000

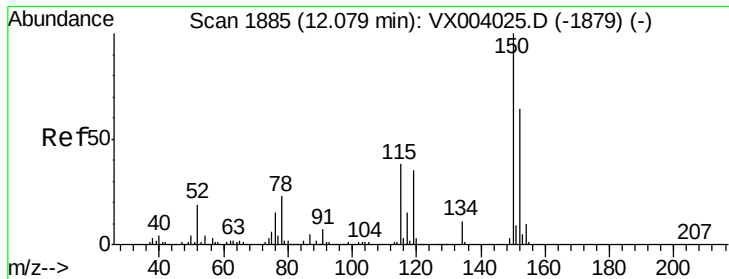
100000

0

10.00 10.10 10.20 10.30

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

LF1-0038

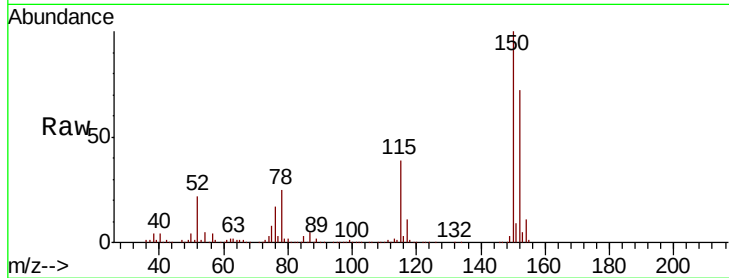
Tot Ion:152 Resp: 197639

Ion Ratio Lower Upper

152 100

115 55.4 39.1 117.3

150 150.6 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

300000

250000

200000

150000

100000

50000

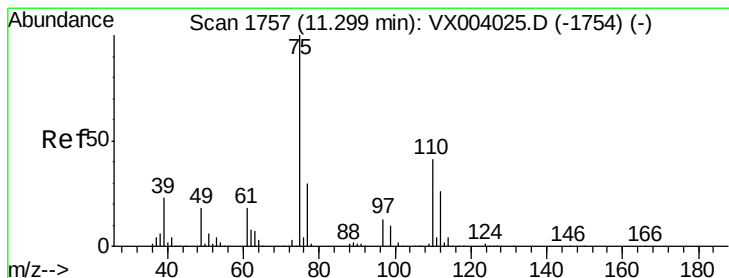
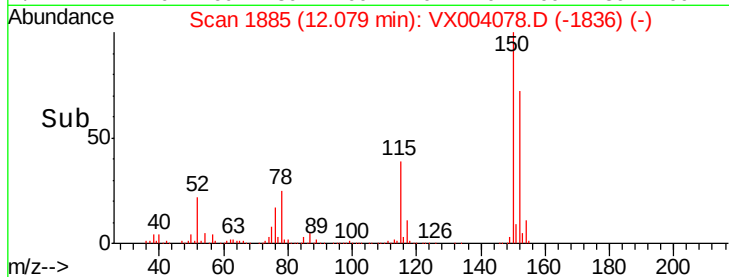
0

12.00

12.10

12.20

Time-->



#76

1,2,3-Trichloropropane

Concen: 24.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004078.D

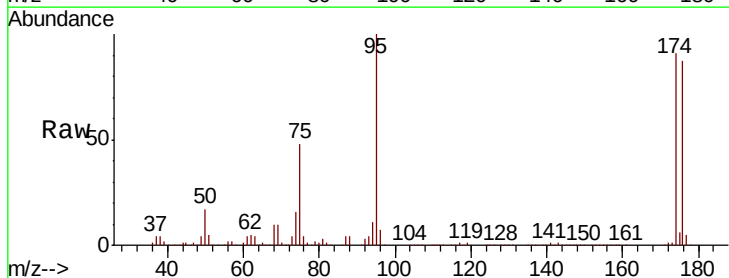
Acq: 15 Aug 2018 17:48

Tgt Ion: 75 Resp: 95348

Ion Ratio Lower Upper

75 100

77 1.5 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

80000

60000

40000

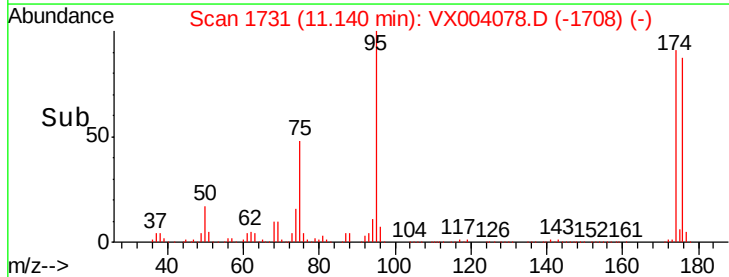
20000

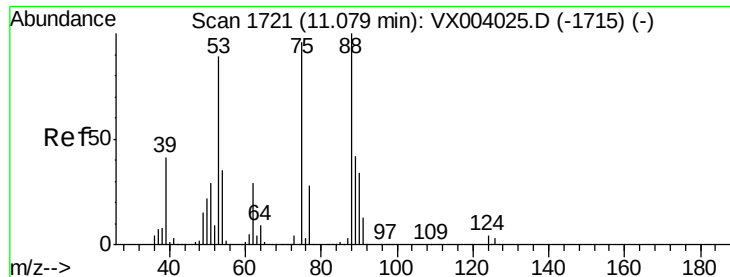
0

11.10

11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 74.47 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

LF1-0038

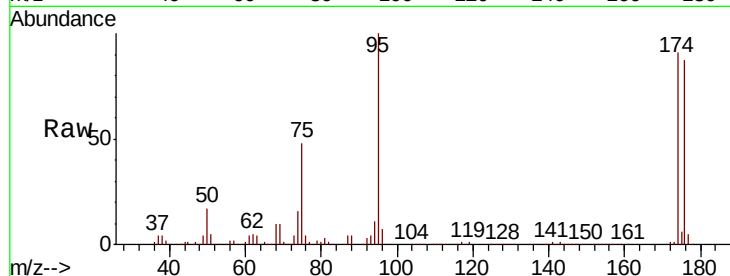
Tot Ion: 75 Resp: 95348

Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

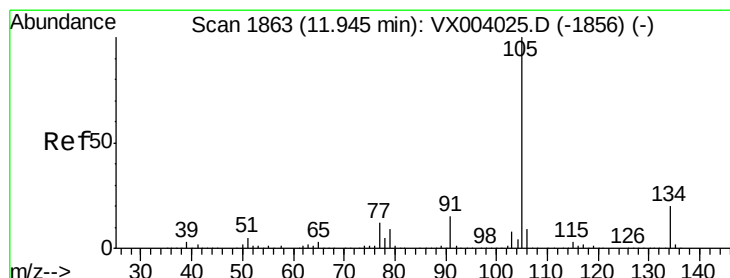
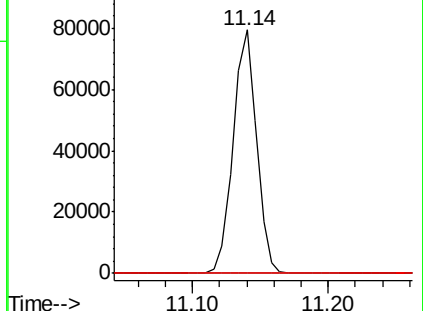
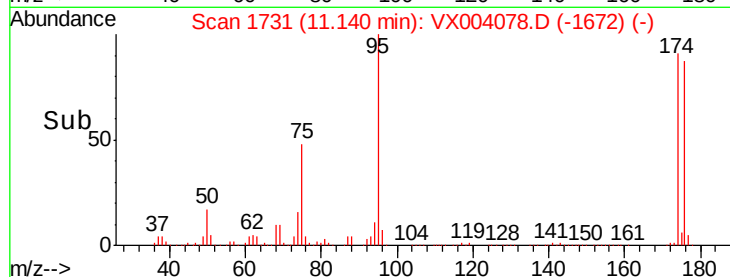
89 0.0 37.8 56.8#



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



#85

sec-Butylbenzene

Concen: 0.20 ug/l

RT: 11.94 min Scan# 1863

Delta R.T. -0.00 min

Lab File: VX004078.D

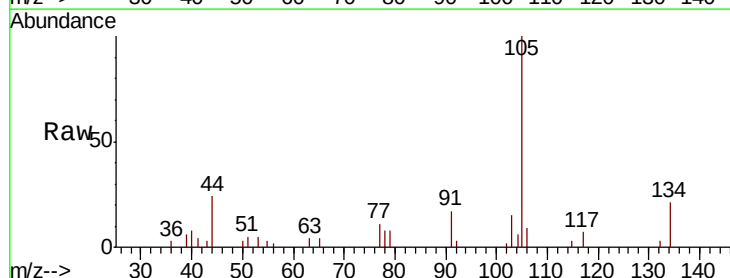
Acq: 15 Aug 2018 17:48

Tgt Ion:105 Resp: 2622

Ion Ratio Lower Upper

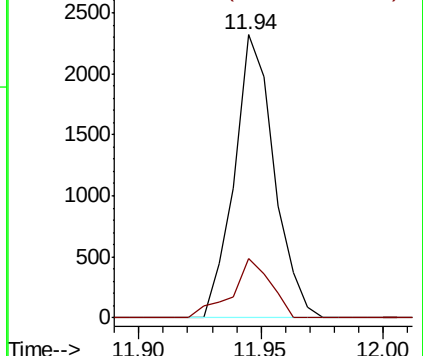
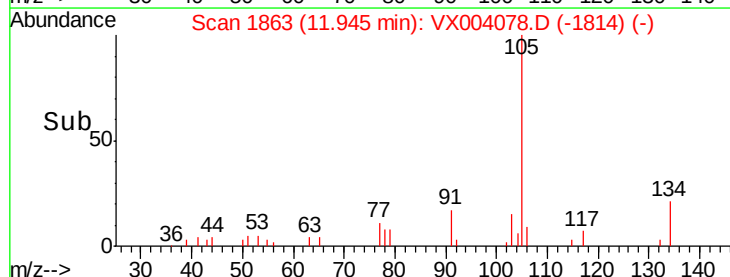
105 100

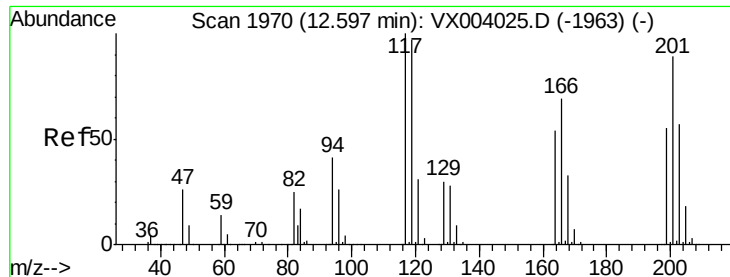
134 20.0 10.3 30.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.32 ug/l

RT: 12.71 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

Instrument :

MSVOA_X

ClientSampled :

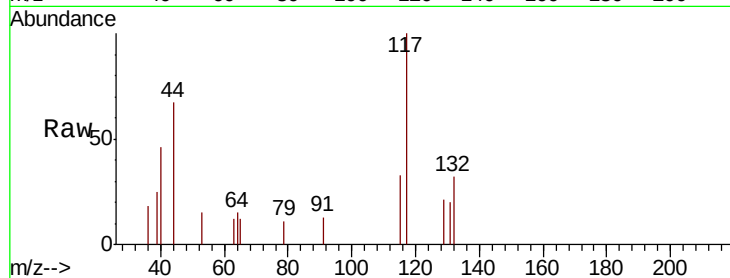
LF1-0038

Tot Ion:117 Resp: 565

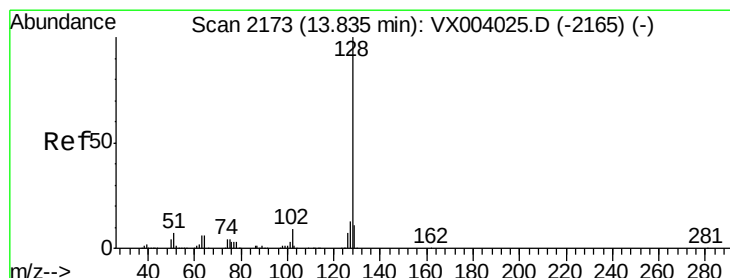
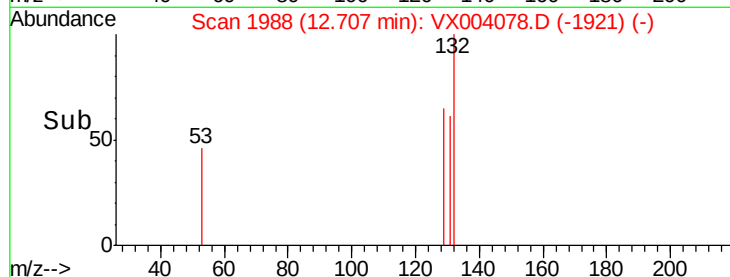
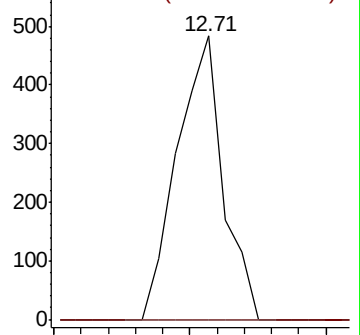
Ion Ratio Lower Upper

117 100

201 0.0 46.1 138.2#



Abundance Ion 116.80 (116.50 to 117.50): V



#95

Naphthalene

Concen: 1.22 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004078.D

Acq: 15 Aug 2018 17:48

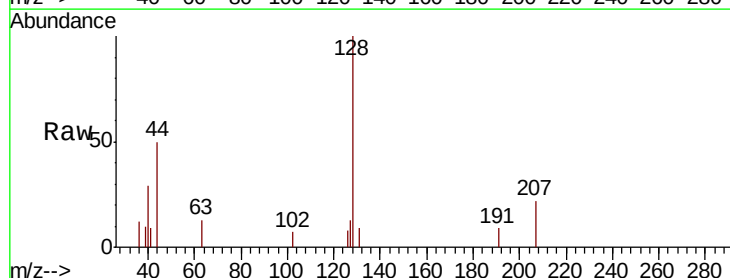
Tgt Ion:128 Resp: 1095

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

129 5.3 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

