

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004077.D
 Acq On : 15 Aug 2018 17:21
 Operator : JC/MD
 Sample : J4428-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF1-TB-2018-2

Quant Time: Aug 16 05:52:01 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	257912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	399668	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	356633	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189575	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	186372	51.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.58%	
35) Dibromofluoromethane	5.51	113	157761	52.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.48%	
50) Toluene-d8	8.72	98	564349	46.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.06%	
62) 4-Bromofluorobenzene	11.14	95	190127	43.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.44%	

Target Compounds

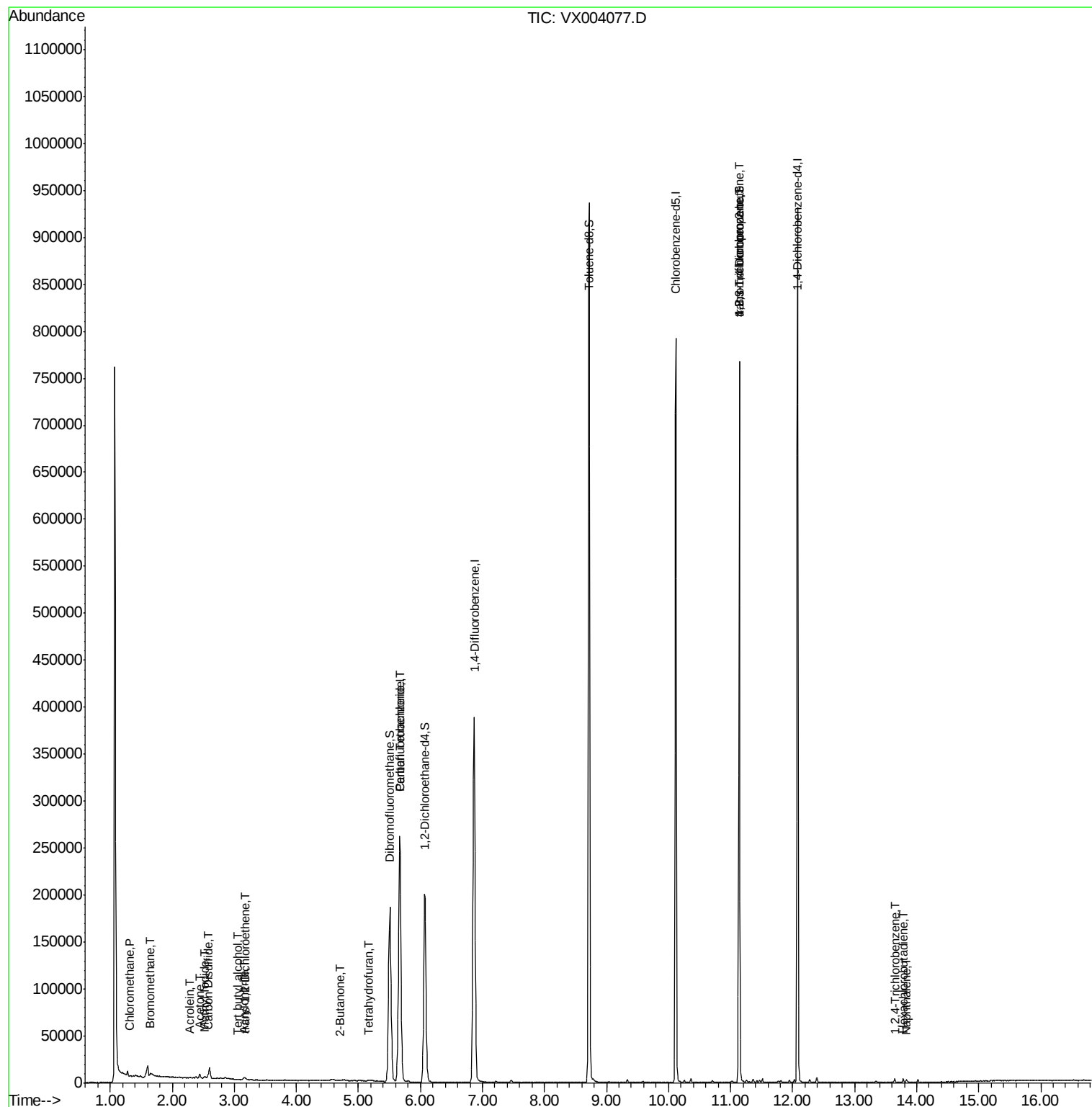
						Qvalue
3) Chloromethane	1.32	50	984	0.32	ug/l	99
5) Bromomethane	1.65	94	1545	0.74	ug/l #	73
6) Chloroethane	1.69	64	2720	Below Cal	#	51
10) Methyl Iodide	2.51	142	1849	5.54	ug/l	91
11) Tert butyl alcohol	3.06	59	278	0.38	ug/l #	73
13) Acrolein	2.29	56	230	11.39	ug/l #	1
15) Acrylonitrile	3.15	53	833	0.46	ug/l #	76
16) Acetone	2.44	43	5493	2.91	ug/l	96
17) Carbon Disulfide	2.57	76	3060	0.40	ug/l #	89
20) Methylene Chloride	2.86	84	642	Below Cal	#	78
21) trans-1,2-Dichloroethene	3.17	96	627	0.20	ug/l	95
25) 2-Butanone	4.70	43	625	0.20	ug/l	99
29) Tetrahydrofuran	5.17	42	1144	0.73	ug/l #	73
38) Carbon Tetrachloride	5.67	117	23559	5.33	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	93477	24.59	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	93477	76.11	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.65	180	1091	0.26	ug/l	96
94) Hexachlorobutadiene	13.79	225	798	0.38	ug/l	98
95) Naphthalene	13.83	128	1929	1.29	ug/l	99

(#) = 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: VX004077.D

Acq: 15 Aug 2018 17:21

Instrument :

MSVOA_X

ClientSampleId :

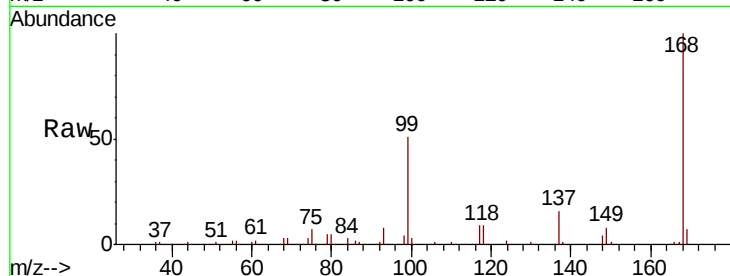
LF1-TB-2018-2

Tot Ion:168 Resp: 257912

Ion Ratio Lower Upper

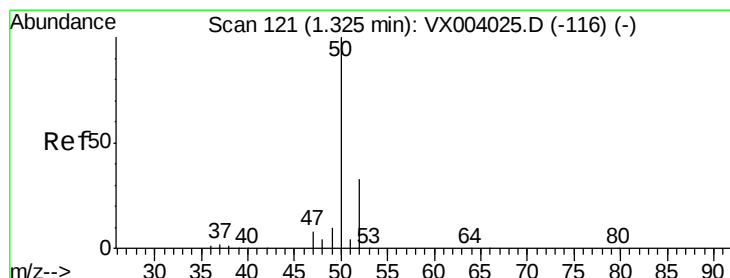
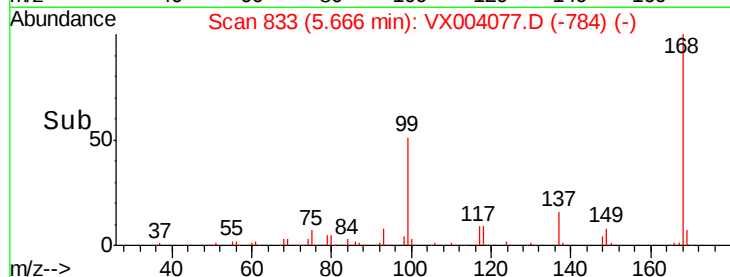
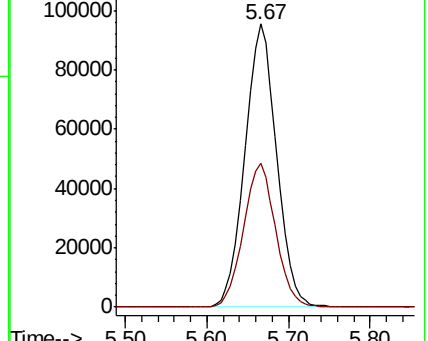
168 100

99 51.0 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: 0.32 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004077.D

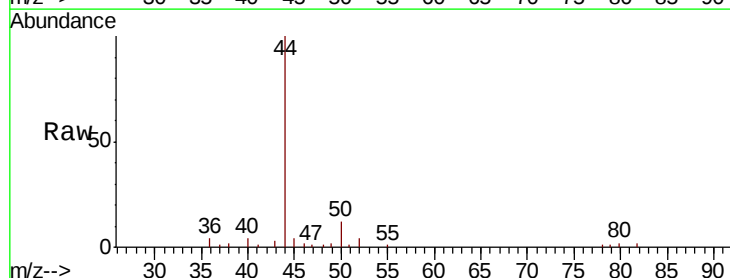
Acq: 15 Aug 2018 17:21

Tgt Ion: 50 Resp: 984

Ion Ratio Lower Upper

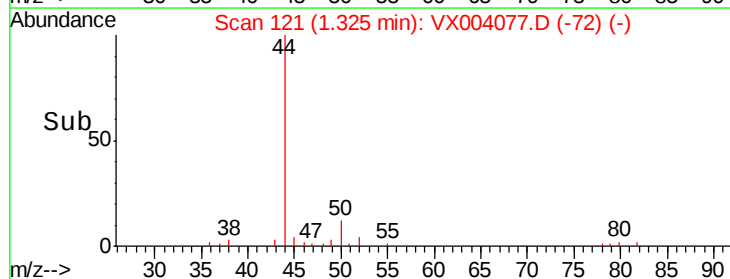
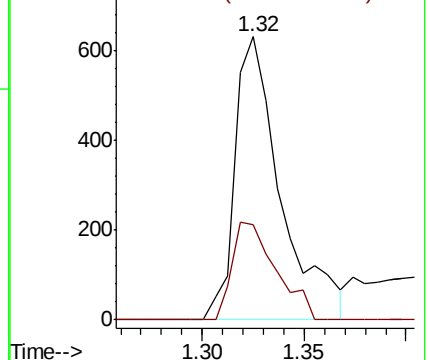
50 100

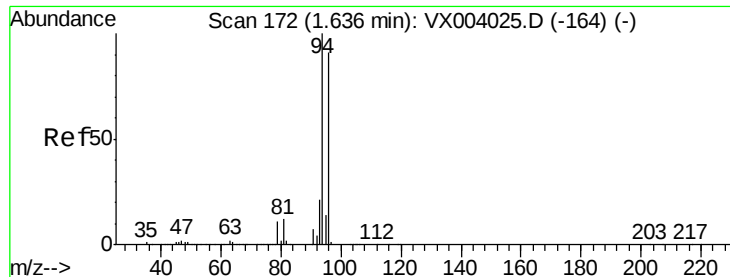
52 33.5 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.74 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

Instrument :

MSVOA_X

ClientSampleId :

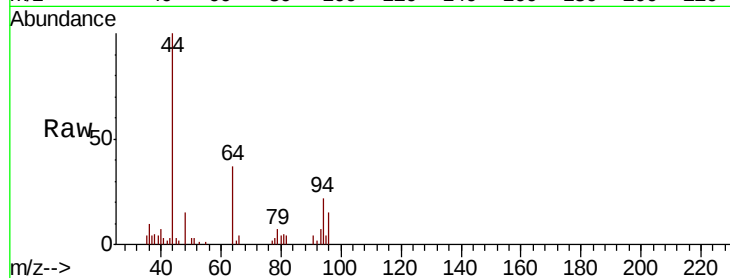
LF1-TB-2018-2

Tot Ion: 94 Resp: 1545

Ion Ratio Lower Upper

94 100

96 68.2 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

800

600

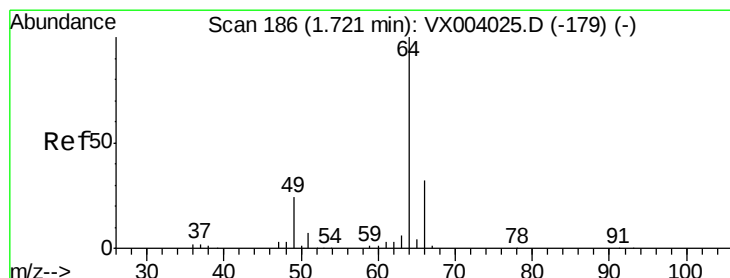
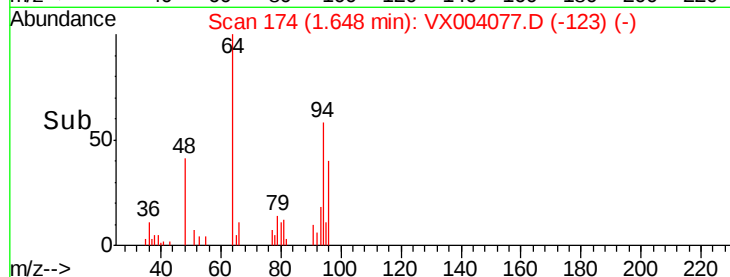
400

200

0

1.60 1.65 1.70 1.75

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 181

Delta R.T. -0.03 min

Lab File: VX004077.D

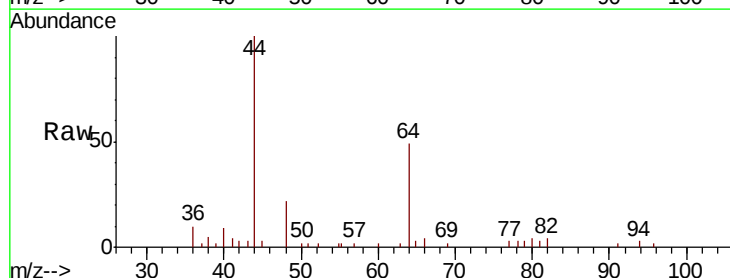
Acq: 15 Aug 2018 17:21

Tgt Ion: 64 Resp: 2720

Ion Ratio Lower Upper

64 100

66 5.6 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

2000

1500

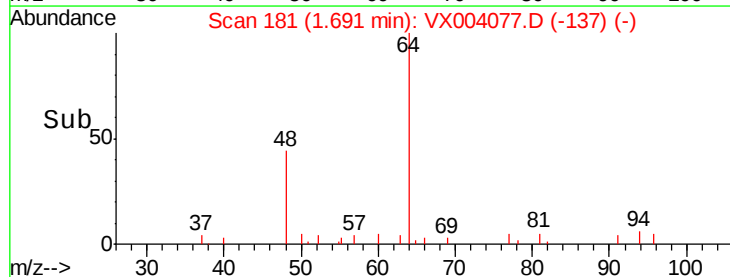
1000

500

0

1.60 1.65 1.70

Time-->

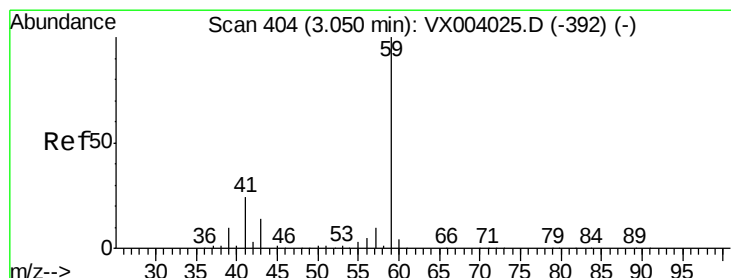
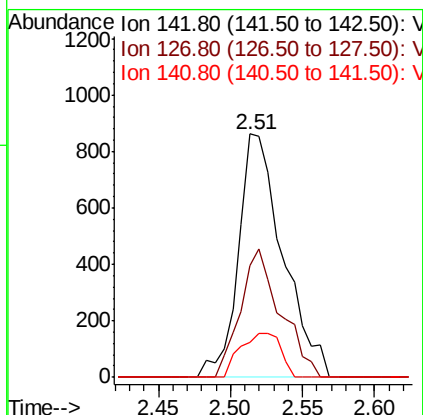
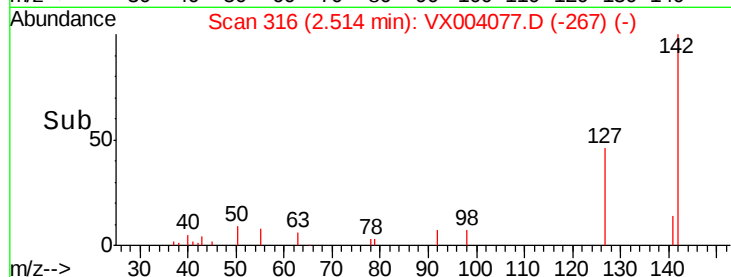
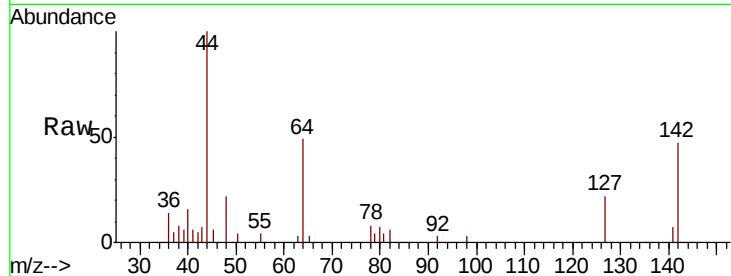




#10
Methyl Iodide
Concen: 5.54 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX004077.D
Acq: 15 Aug 2018 17:21

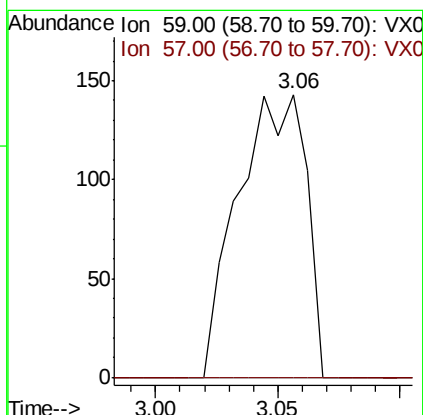
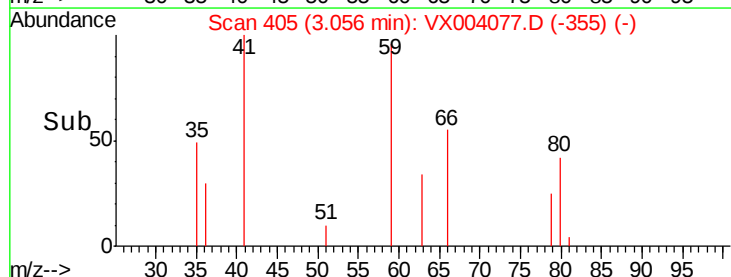
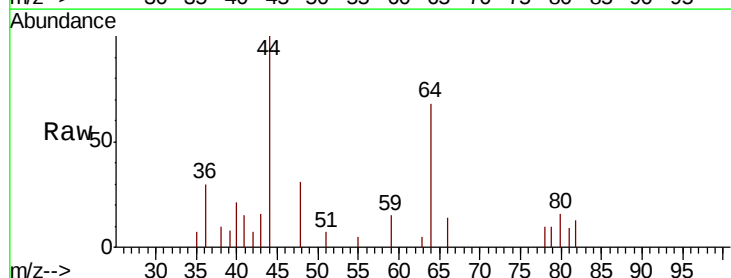
Instrument :
MSVOA_X
ClientSampleId :
LF1-TB-2018-2

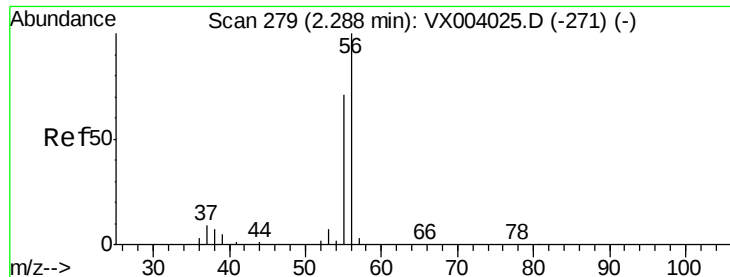
Tot Ion:142 Resp: 1849
Ion Ratio Lower Upper
142 100
127 47.8 33.1 49.7
141 16.3 11.1 16.7



#11
Tert butyl alcohol
Concen: 0.38 ug/l
RT: 3.06 min Scan# 405
Delta R.T. 0.01 min
Lab File: VX004077.D
Acq: 15 Aug 2018 17:21

Tgt Ion: 59 Resp: 278
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: 11.39 ug/l

RT: 2.29 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

Instrument :

MSVOA_X

ClientSampleId :

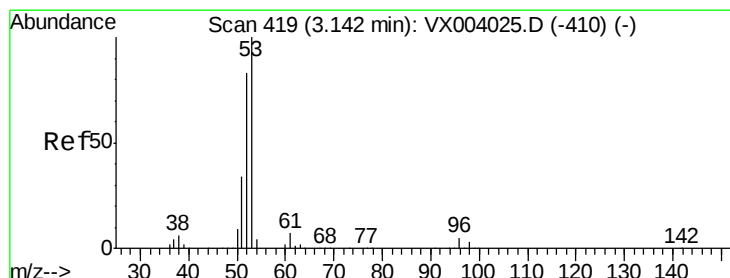
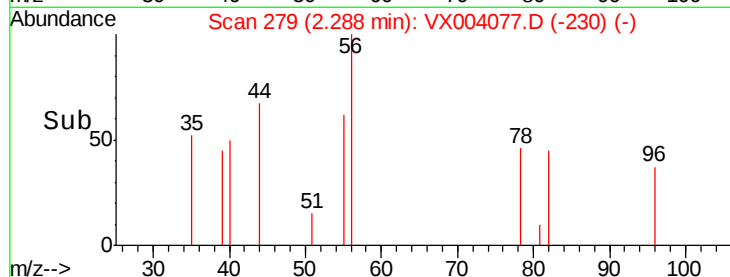
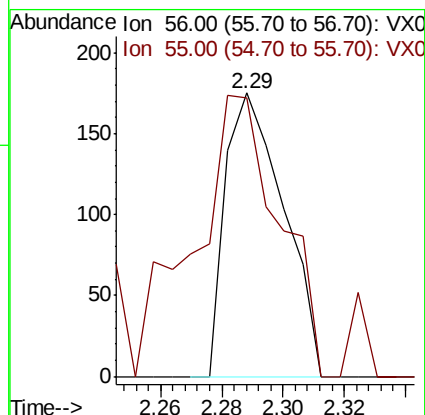
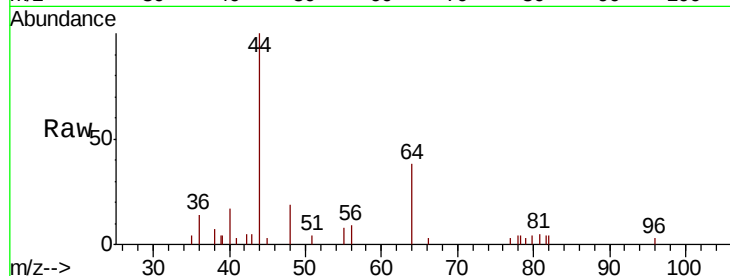
LF1-TB-2018-2

Tot Ion: 56 Resp: 230

Ion Ratio Lower Upper

56 100

55 157.8 56.1 84.1#



#15

Acrylonitrile

Concen: 0.46 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.01 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

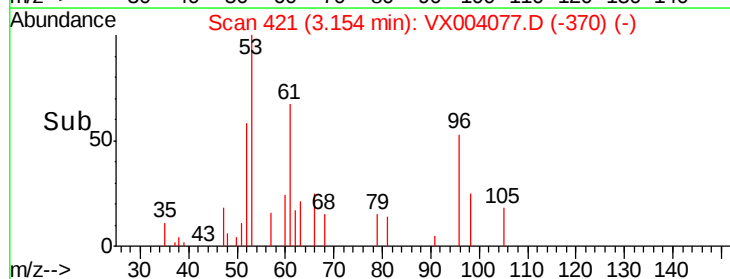
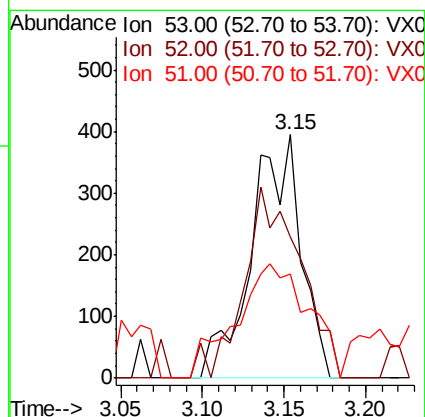
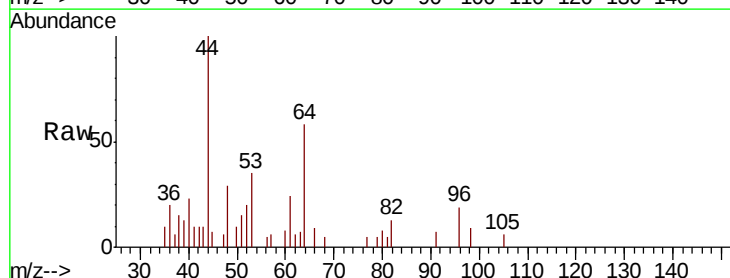
Tgt Ion: 53 Resp: 833

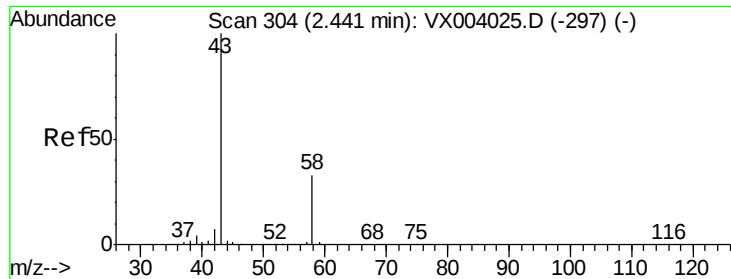
Ion Ratio Lower Upper

53 100

52 89.7 65.3 97.9

51 68.9 27.9 41.9#





#16

Acetone

Concen: 2.91 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

Instrument :

MSVOA_X

ClientSampleId :

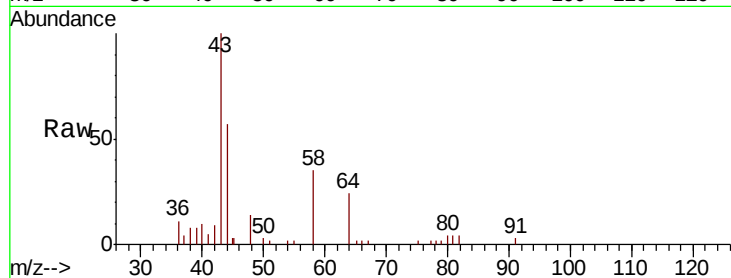
LF1-TB-2018-2

Tot Ion: 43 Resp: 5493

Ion Ratio Lower Upper

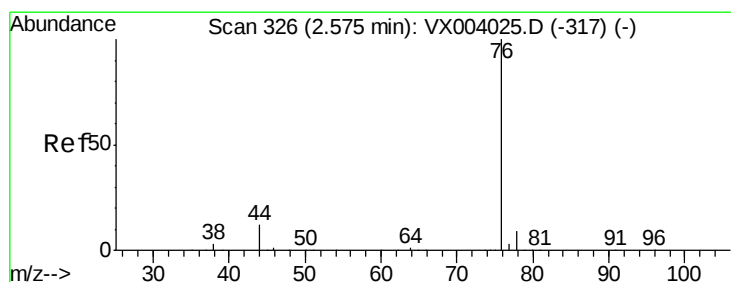
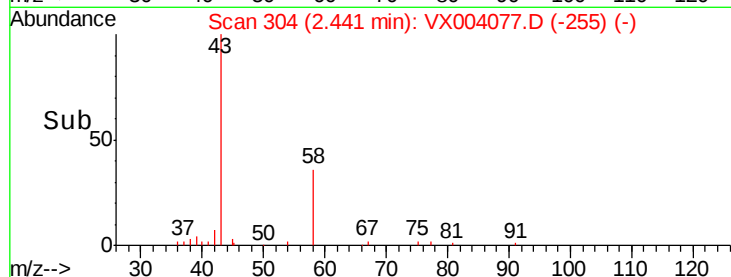
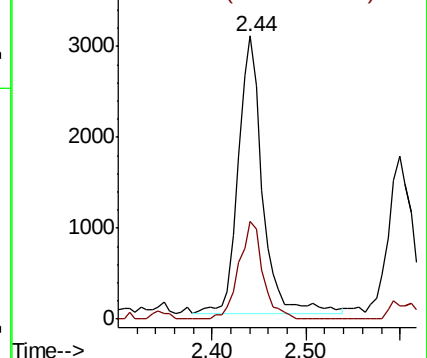
43 100

58 35.3 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.40 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX004077.D

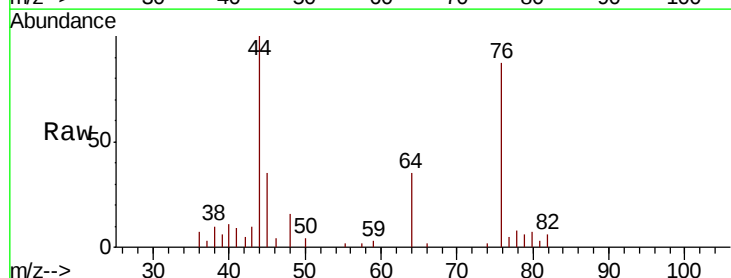
Acq: 15 Aug 2018 17:21

Tgt Ion: 76 Resp: 3060

Ion Ratio Lower Upper

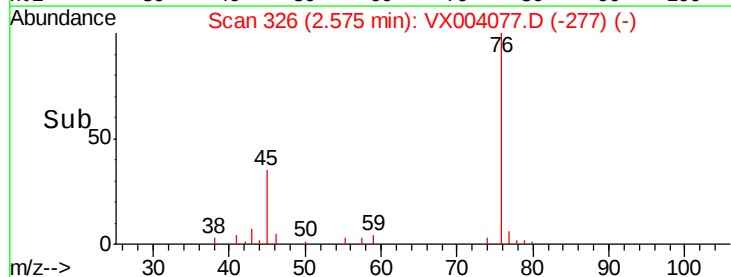
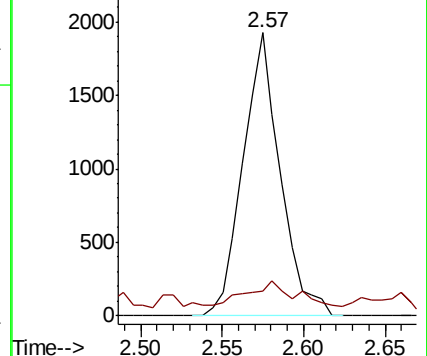
76 100

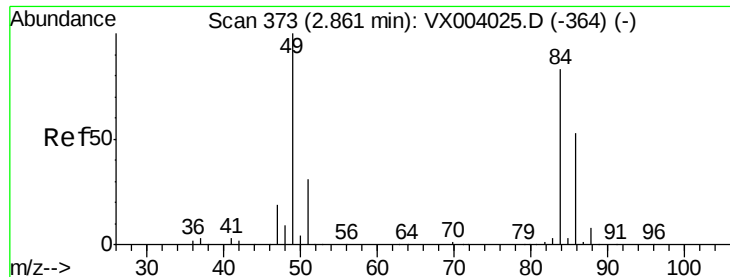
78 5.2 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



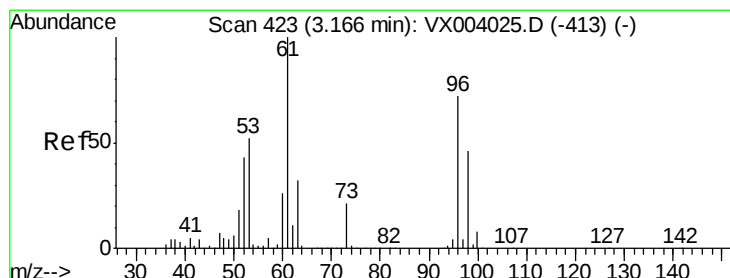
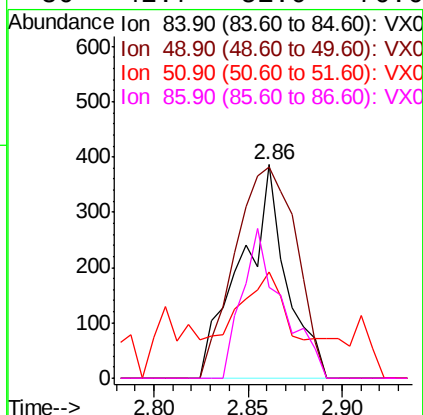
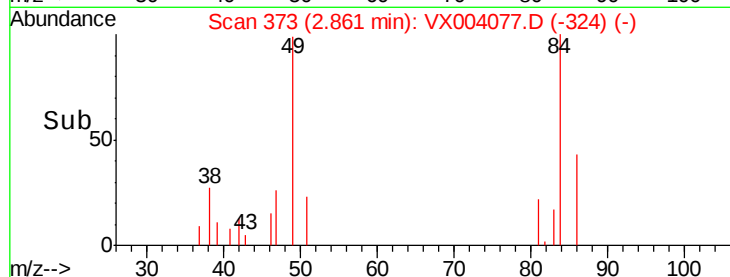
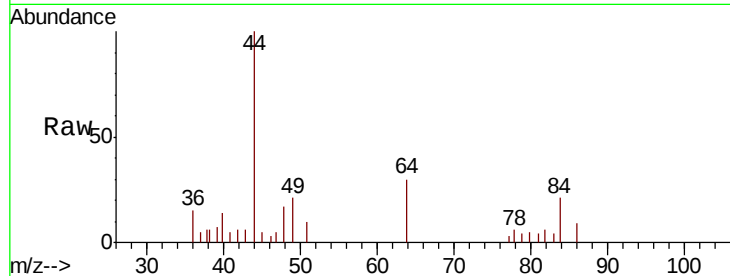


#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX004077.D
Acq: 15 Aug 2018 17:21

Instrument :
MSVOA_X
ClientSampleId :
LF1-TB-2018-2

Tot Ion: 84 Resp: 642

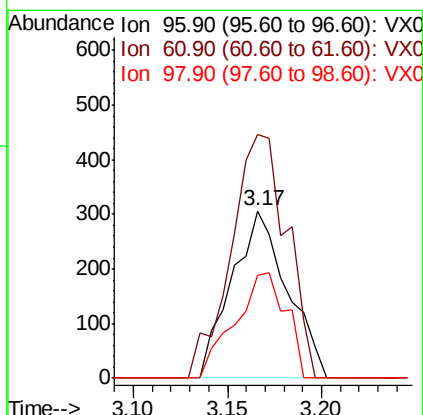
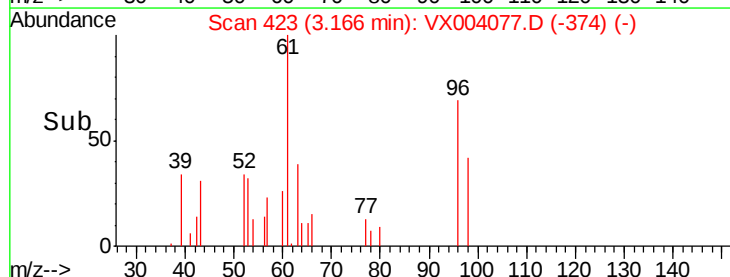
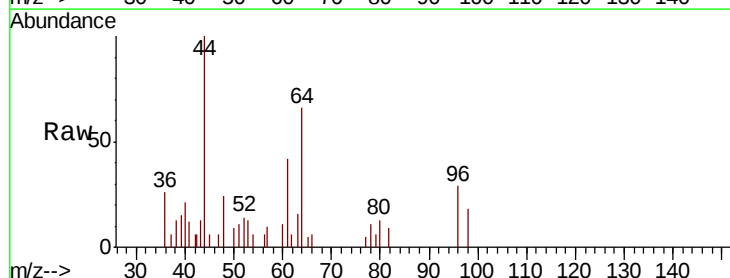
Ion	Ratio	Lower	Upper
84	100		
49	98.7	98.9	148.3#
51	31.1	29.9	44.9
86	42.7	51.0	76.6#

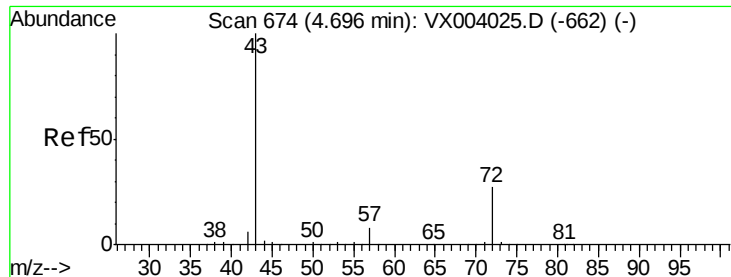


#21
trans-1,2-Dichloroethene
Concen: 0.20 ug/l
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX004077.D
Acq: 15 Aug 2018 17:21

Tgt Ion: 96 Resp: 627

Ion	Ratio	Lower	Upper
96	100		
61	145.8	111.8	167.6
98	61.4	51.8	77.6





#25

2-Butanone

Concen: 0.20 ug/l

RT: 4.70 min Scan# 674

Delta R.T. -0.00 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

Instrument :

MSVOA_X

ClientSampleId :

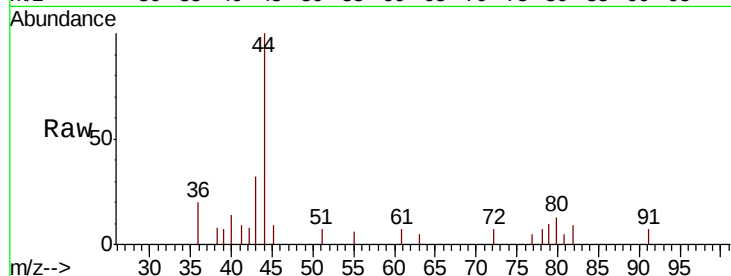
LF1-TB-2018-2

Tot Ion: 43 Resp: 625

Ion Ratio Lower Upper

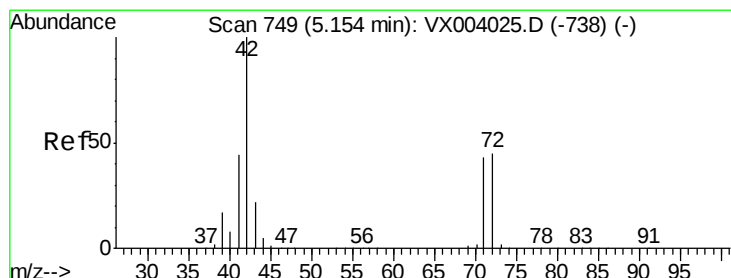
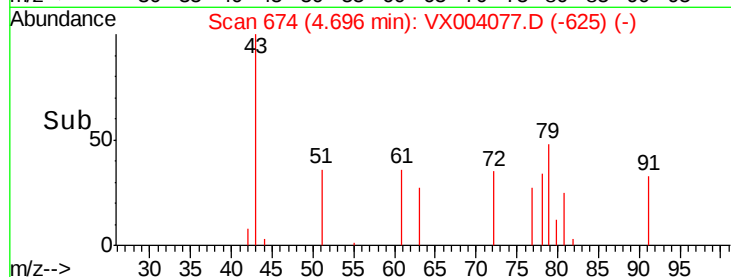
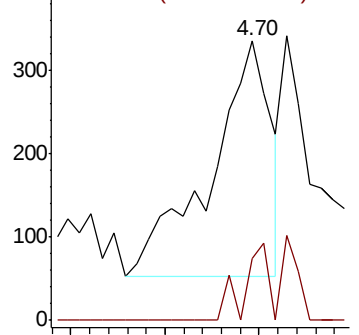
43 100

72 26.1 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.73 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

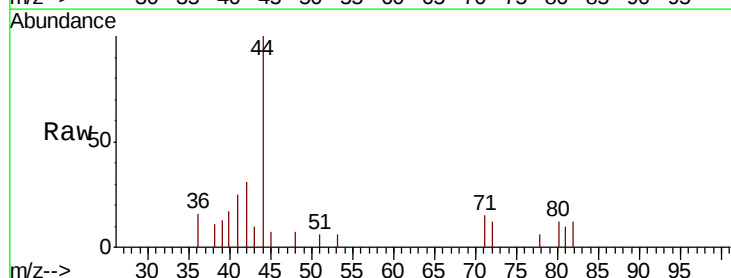
Tgt Ion: 42 Resp: 1144

Ion Ratio Lower Upper

42 100

72 31.9 37.7 56.5#

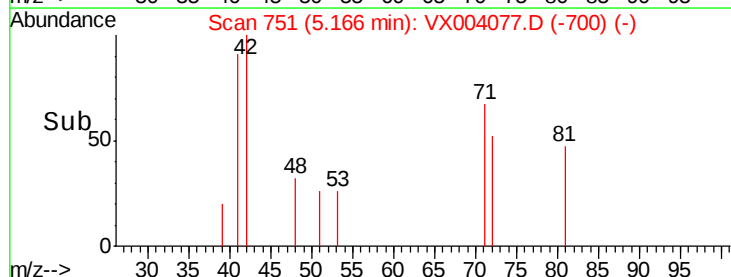
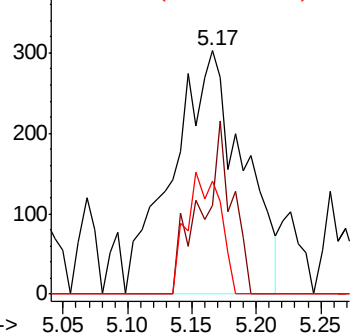
71 23.8 35.0 52.6#

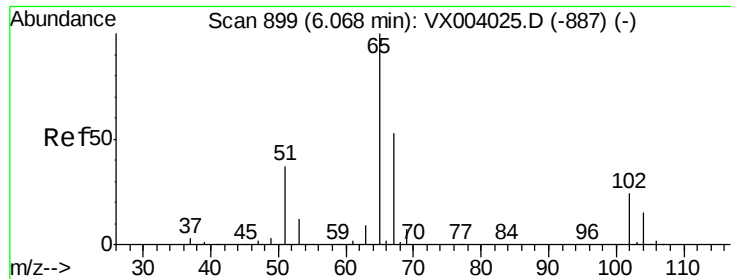


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

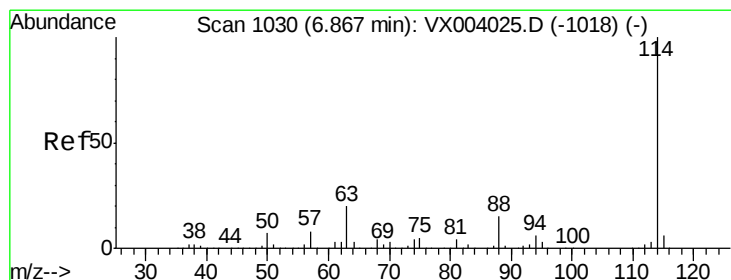
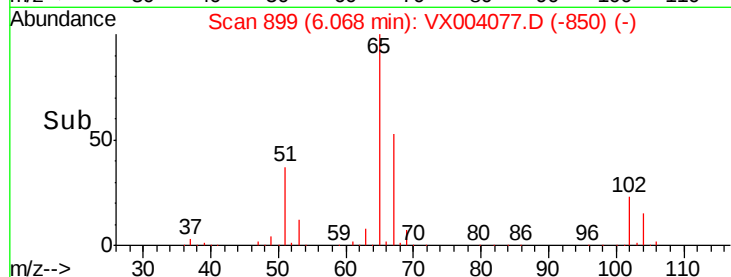
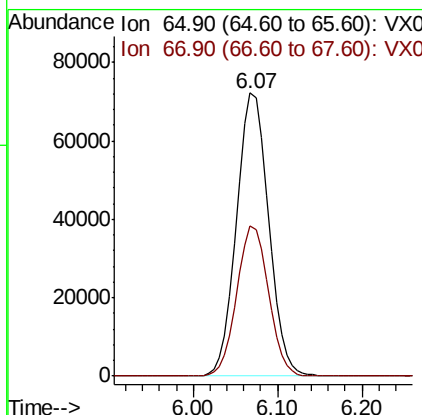
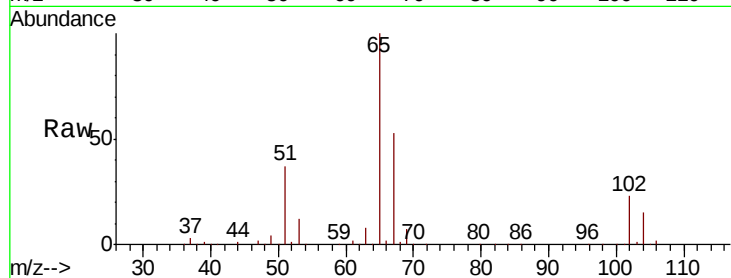




#33
 1,2-Dichloroethane-d4
 Concen: 51.29 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004077.D
 Acq: 15 Aug 2018 17:21

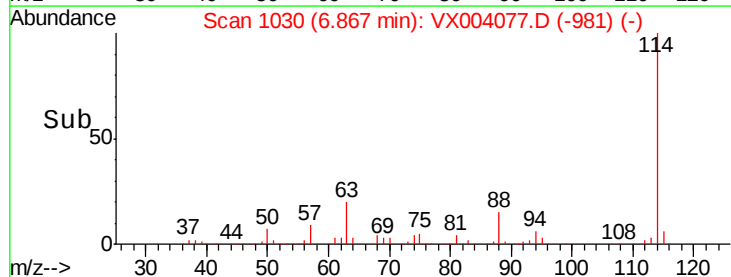
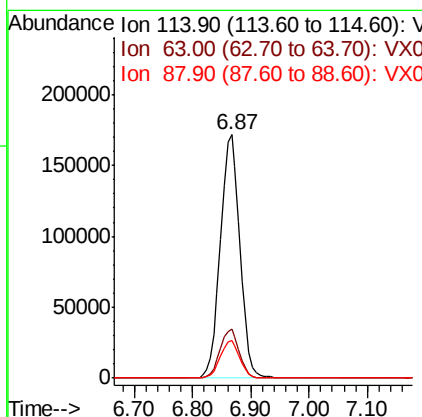
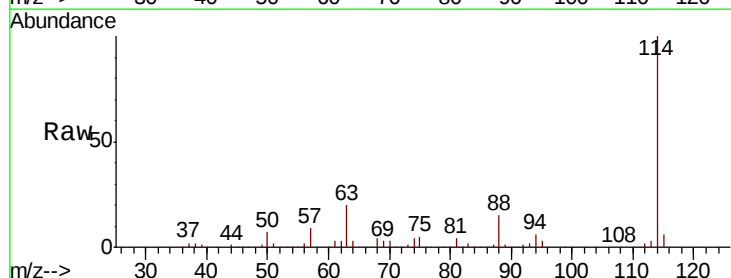
Instrument :
 MSVOA_X
 ClientSampleId :
 LF1-TB-2018-2

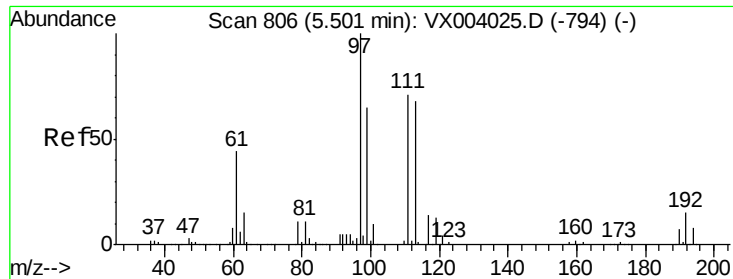
Tot Ion: 65 Resp: 186372
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004077.D
 Acq: 15 Aug 2018 17:21

Tgt Ion: 114 Resp: 399668
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 15.4 0.0 32.0

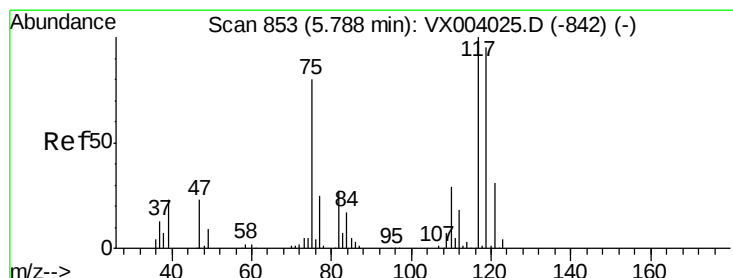
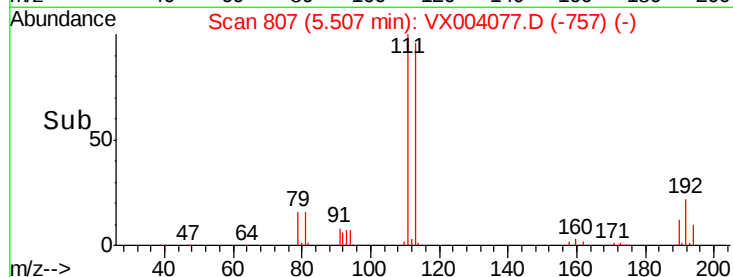
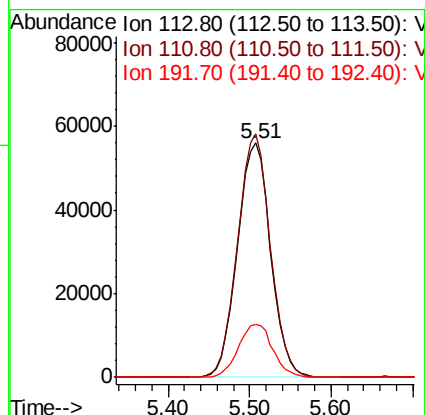
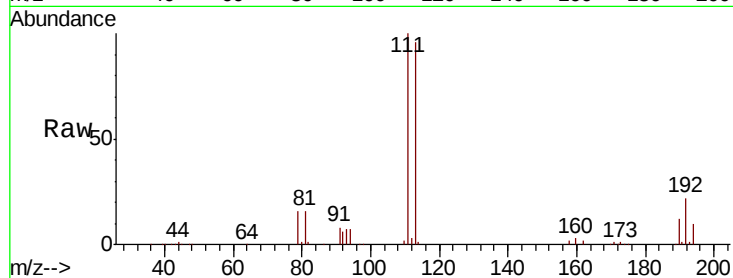




#35
 Dibromofluoromethane
 Concen: 52.74 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004077.D
 Acq: 15 Aug 2018 17:21

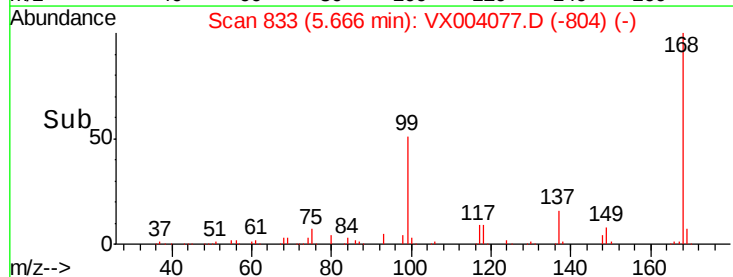
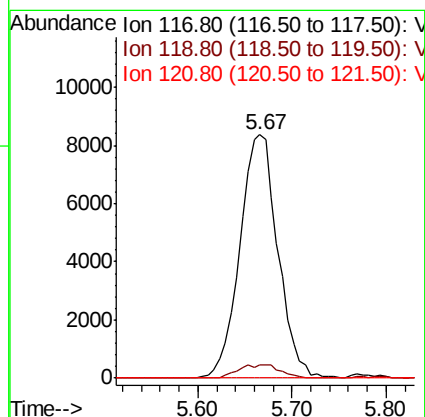
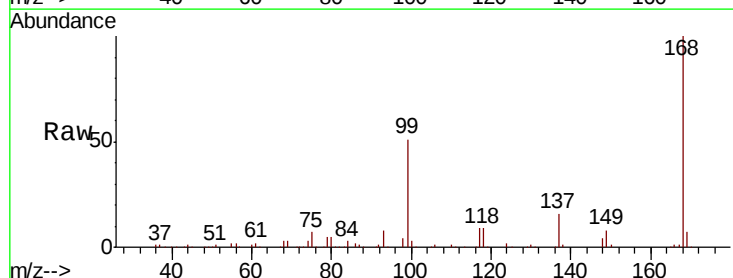
Instrument :
 MSVOA_X
 ClientSampleId :
 LF1-TB-2018-2

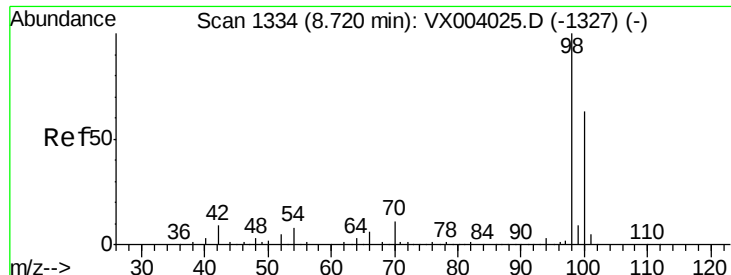
Tot Ion:113 Resp: 157761
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.0 123.0
 192 23.4 19.0 28.4



#38
 Carbon Tetrachloride
 Concen: 5.33 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX004077.D
 Acq: 15 Aug 2018 17:21

Tgt Ion:117 Resp: 23559
 Ion Ratio Lower Upper
 117 100
 119 5.2 79.5 119.3#
 121 0.0 25.0 37.4#





#50

Toluene-d8

Concen: 46.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

Instrument :

MSVOA_X

ClientSampleId :

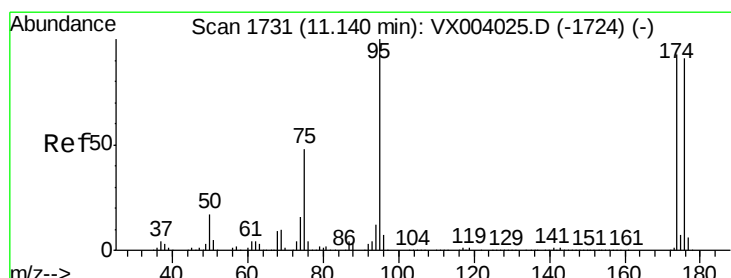
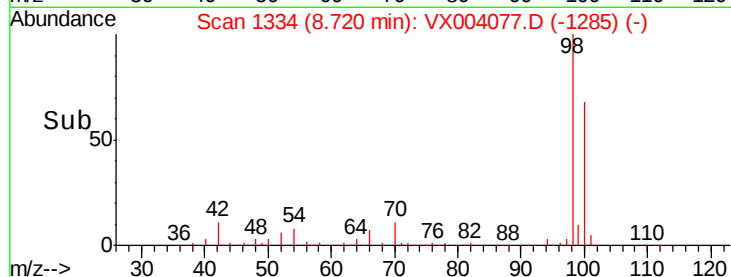
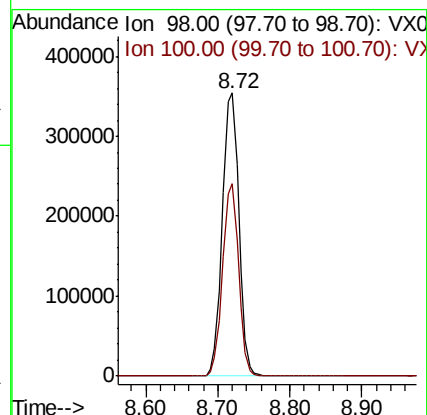
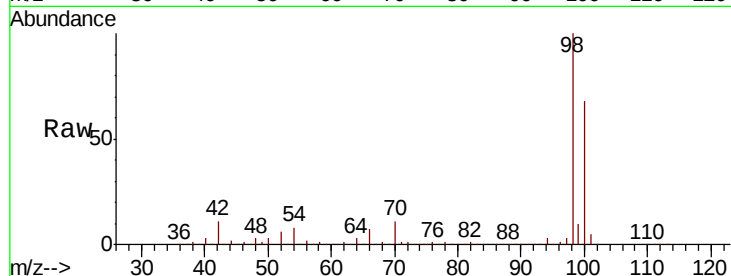
LF1-TB-2018-2

Tot Ion: 98 Resp: 564349

Ion Ratio Lower Upper

98 100

100 65.9 53.3 79.9



#62

4-Bromofluorobenzene

Concen: 43.22 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

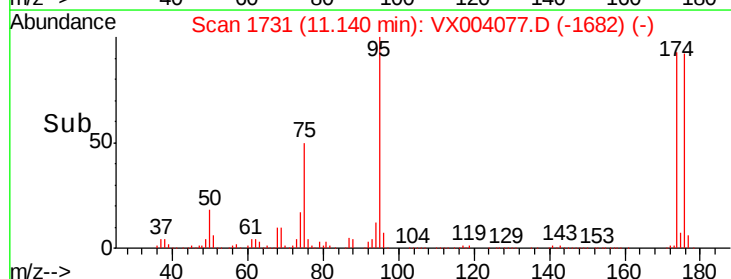
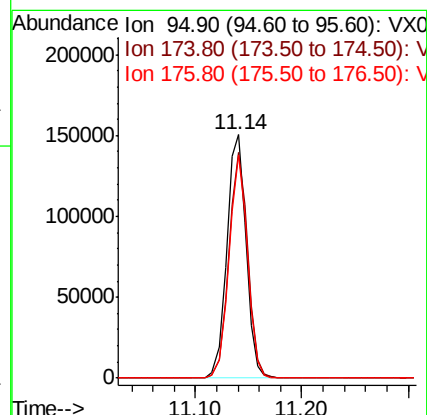
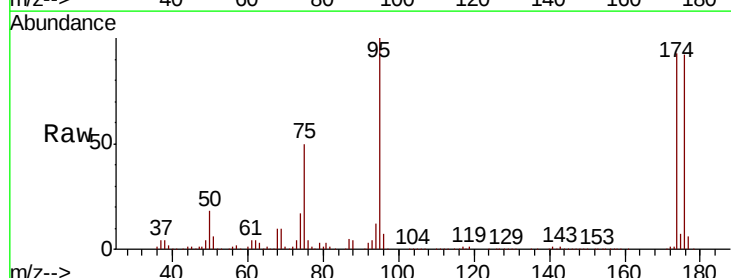
Tgt Ion: 95 Resp: 190127

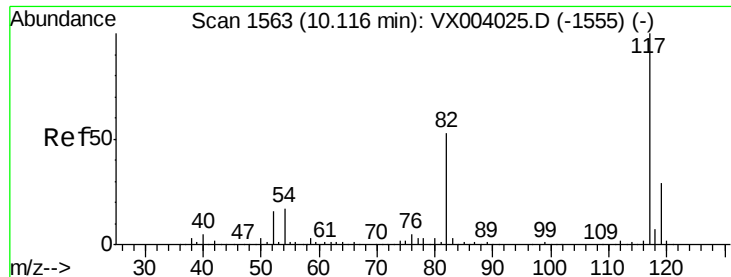
Ion Ratio Lower Upper

95 100

174 91.7 0.0 182.8

176 88.2 0.0 179.0

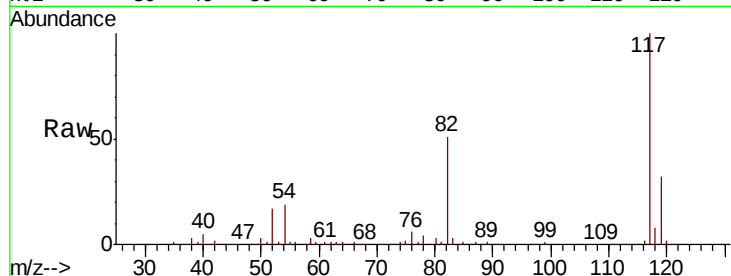




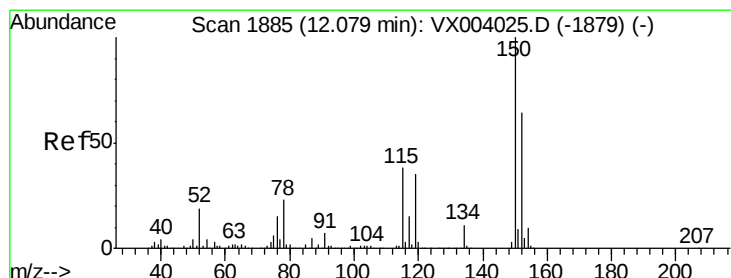
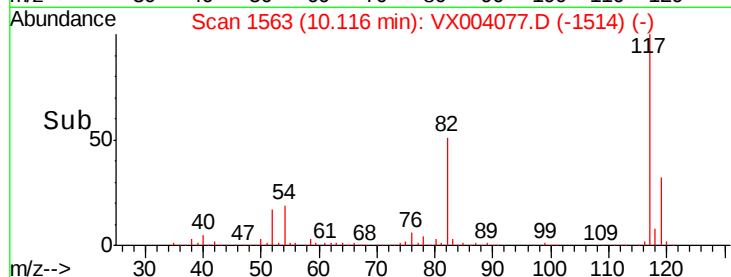
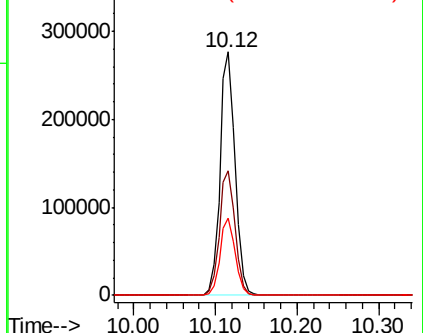
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004077.D
Acq: 15 Aug 2018 17:21

Instrument :
MSVOA_X
ClientSampleId :
LF1-TB-2018-2

Tot Ion:117 Resp: 356633
Ion Ratio Lower Upper
117 100
82 51.2 45.4 68.0
119 31.9 26.6 40.0

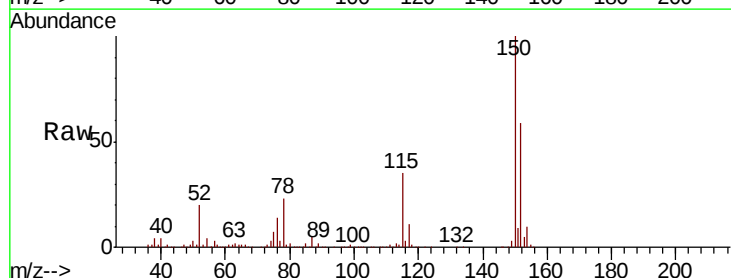


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

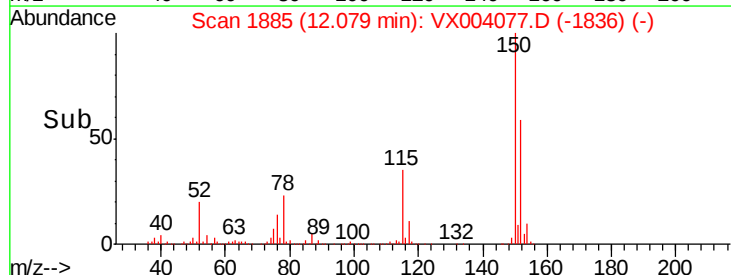
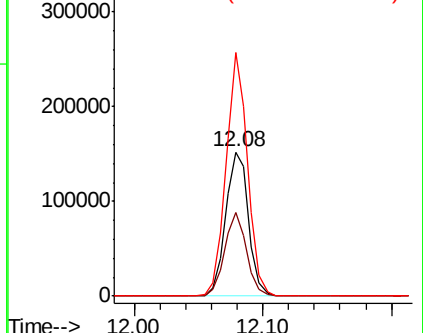


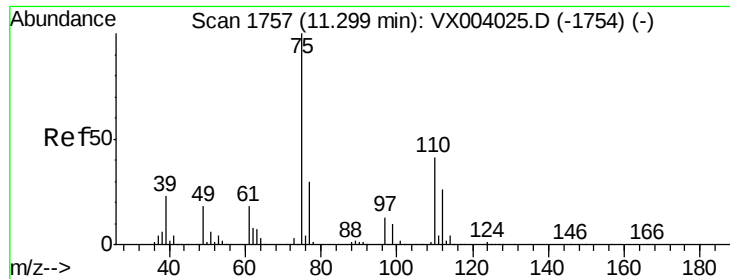
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004077.D
Acq: 15 Aug 2018 17:21

Tgt Ion:152 Resp: 189575
Ion Ratio Lower Upper
152 100
115 55.8 39.1 117.3
150 158.9 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

Instrument :

MSVOA_X

ClientSampleId :

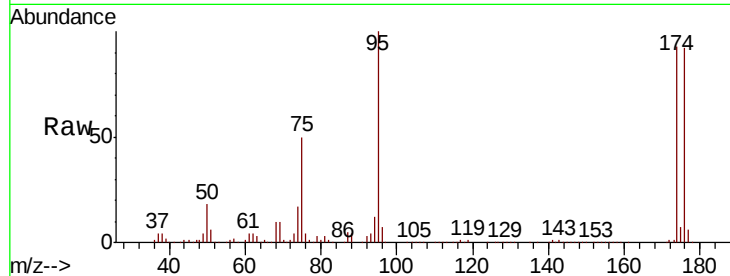
LF1-TB-2018-2

Tot Ion: 75 Resp: 93477

Ion Ratio Lower Upper

75 100

77 1.3 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

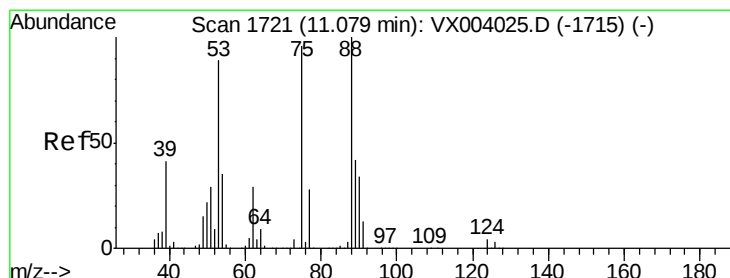
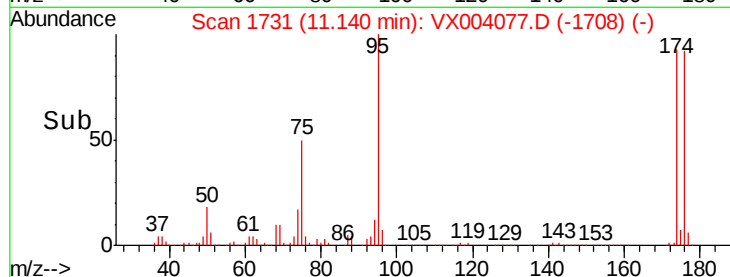
40000

20000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 76.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004077.D

Acq: 15 Aug 2018 17:21

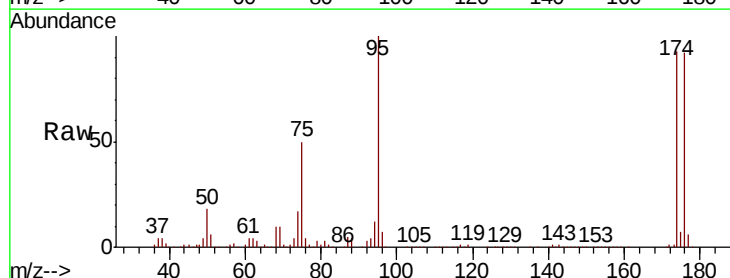
Tgt Ion: 75 Resp: 93477

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

100000

80000

60000

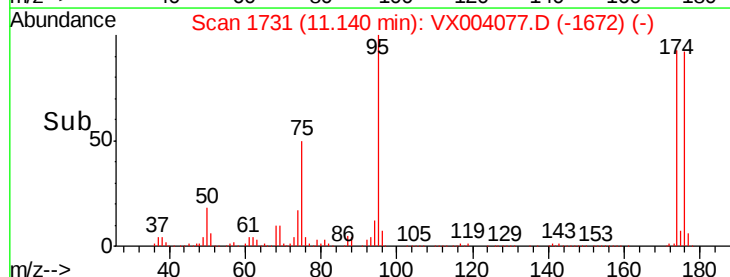
40000

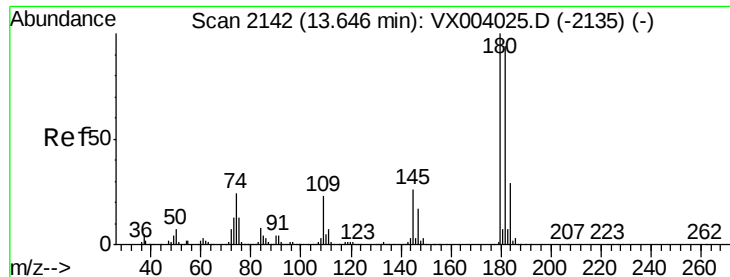
20000

0

11.10 11.20

Time-->

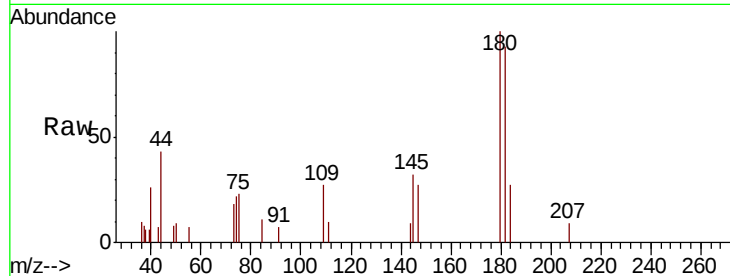




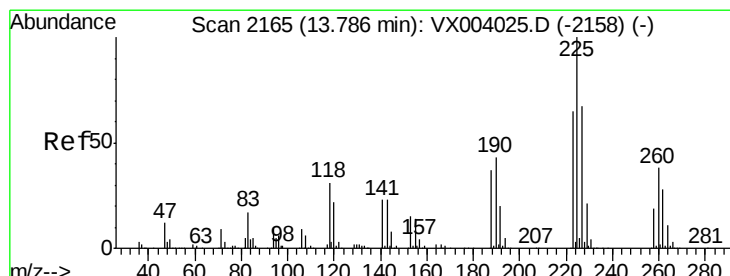
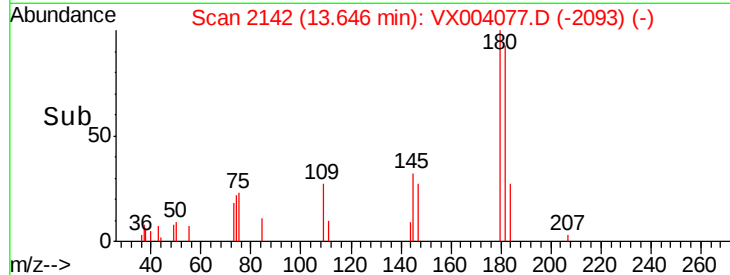
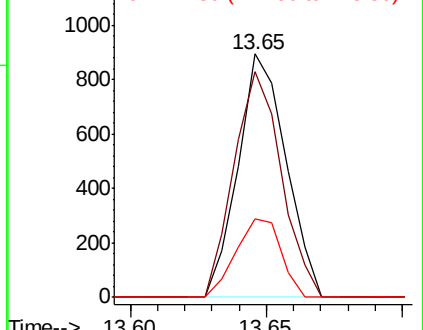
#93
 1,2,4-Trichlorobenzene
 Concen: 0.26 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. -0.00 min
 Lab File: VX004077.D
 Acq: 15 Aug 2018 17:21

Instrument :
 MSVOA_X
 ClientSampleId :
 LF1-TB-2018-2

Tot Ion:180 Resp: 1091
 Ion Ratio Lower Upper
 180 100
 182 91.9 47.7 143.1
 145 30.4 13.9 41.6

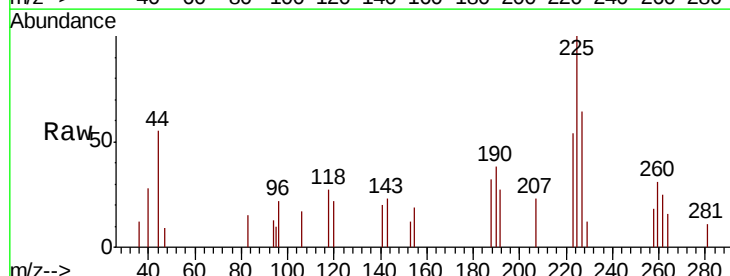


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

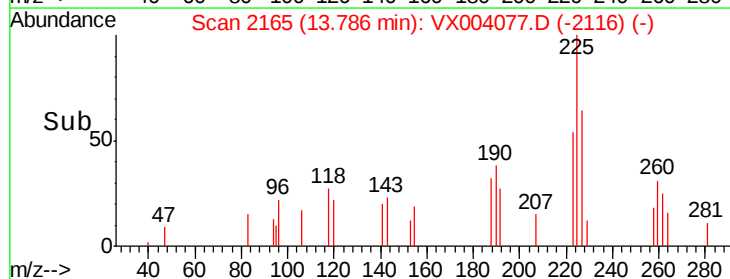
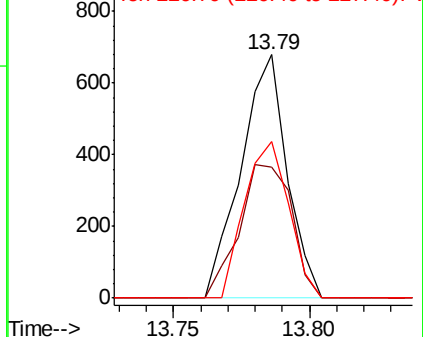


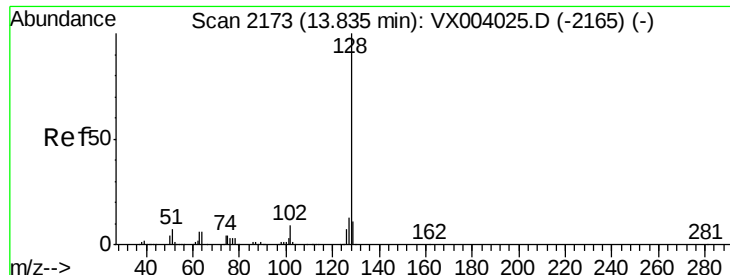
#94
 Hexachlorobutadiene
 Concen: 0.38 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. -0.00 min
 Lab File: VX004077.D
 Acq: 15 Aug 2018 17:21

Tgt Ion:225 Resp: 798
 Ion Ratio Lower Upper
 225 100
 223 62.4 31.4 94.0
 227 61.9 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95
Naphthalene
Concen: 1.29 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004077.D
Acq: 15 Aug 2018 17:21

Instrument :
MSVOA_X
ClientSampleId :
LF1-TB-2018-2

Tot Ion:128 Resp: 1929
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 11.9 8.8 13.2

