

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY122719\
 Data File : VY001108.D
 Acq On : 27 Dec 2019 19:02
 Operator : SY/MD
 Sample : K6439-09RE
 Misc : 4.96G/5ML/MSVOA_Y/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LIED-BF006-01RE

Quant Time: Dec 28 04:05:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y122319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 23 12:07:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	6120	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	10305	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	9840	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	4734	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	4293	71.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	142.24%	
35) Dibromofluoromethane	7.72	113	1664	27.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	54.84%	
50) Toluene-d8	10.18	98	11889	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
62) 4-Bromofluorobenzene	12.47	95	4279	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	

Target Compounds

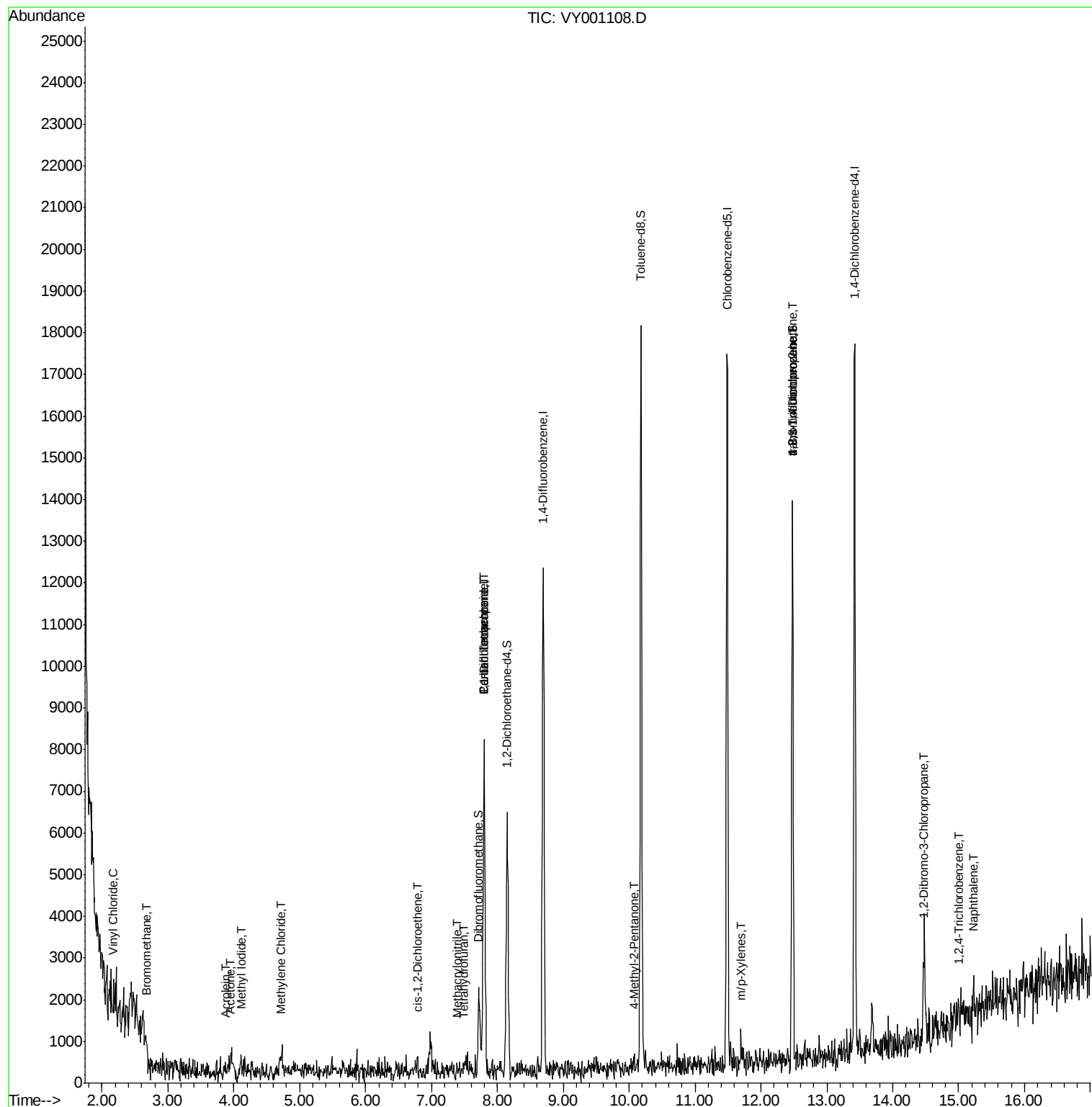
						Qvalue
4) Vinyl Chloride	2.16	62	80	1.135	ug/l #	43
5) Bromomethane	2.68	94	28	1.302	ug/l #	14
10) Methyl Iodide	4.11	142	383	4.082	ug/l #	44
13) Acrolein	3.87	56	75	9.121	ug/l	88
16) Acetone	3.94	43	221	15.893	ug/l #	35
20) Methylene Chloride	4.72	84	262	3.201	ug/l #	17
27) cis-1,2-Dichloroethene	6.79	96	88	1.051	ug/l #	1
29) Tetrahydrofuran	7.49	42	22	1.266	ug/l #	31
36) 1,1-Dichloropropene	7.80	75	575	5.849	ug/l #	41
38) Carbon Tetrachloride	7.80	117	527	6.118	ug/l #	13
41) Methacrylonitrile	7.38	41	44	1.864	ug/l #	100
51) 4-Methyl-2-Pentanone	10.08	43	62	1.180	ug/l #	1
68) m/p-Xylenes	11.70	106	184	1.320	ug/l	100
76) 1,2,3-Trichloropropane	12.48	75	2171	37.200	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	2171	79.338	ug/l #	21
92) 1,2-Dibromo-3-Chloropropan	14.46	75	55	4.555	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.01	180	227	2.304	ug/l #	13
95) Naphthalene	15.23	128	383	1.653	ug/l #	79

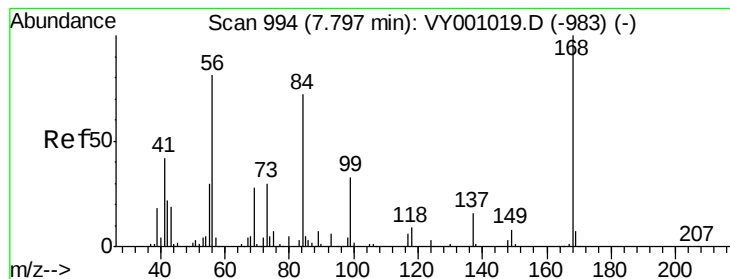
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

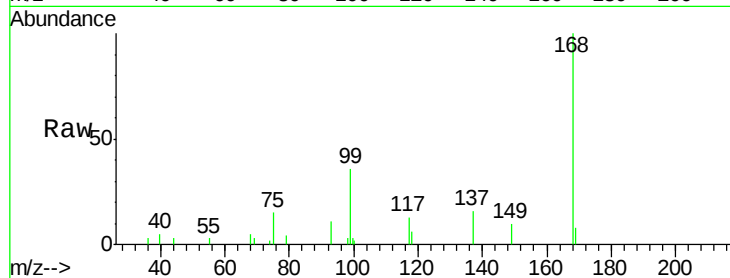
LIED-BF006-01RE

Tgt Ion:168 Resp: 6120

Ion Ratio Lower Upper

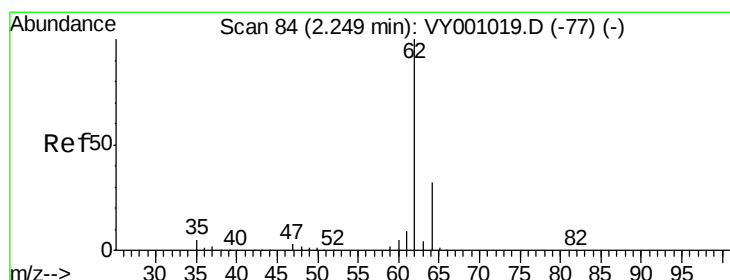
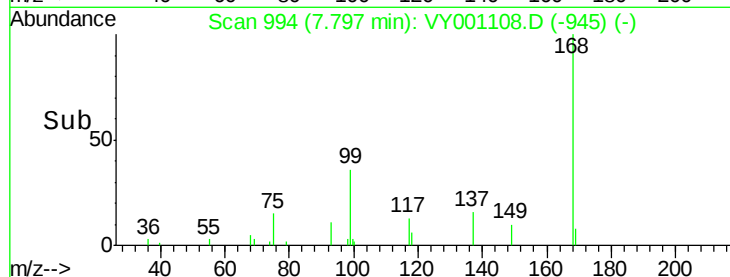
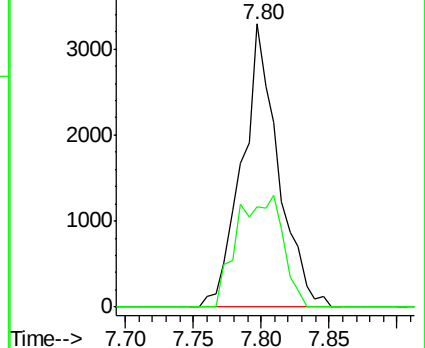
168 100

99 35.6 44.0 66.0#



Abundance Ion 167.90 (167.60 to 168.60): VY001108.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY001108.D (-945) (-)



#4

Vinyl Chloride

Concen: 1.135 ug/l

RT: 2.16 min Scan# 69

Delta R.T. -0.09 min

Lab File: VY001108.D

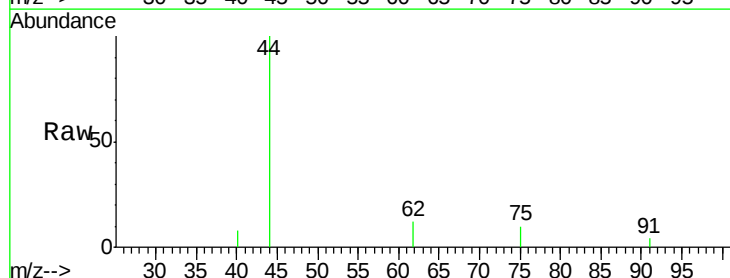
Acq: 27 Dec 2019 19:02

Tgt Ion: 62 Resp: 80

Ion Ratio Lower Upper

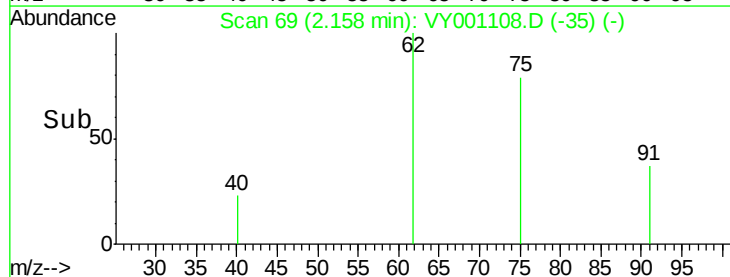
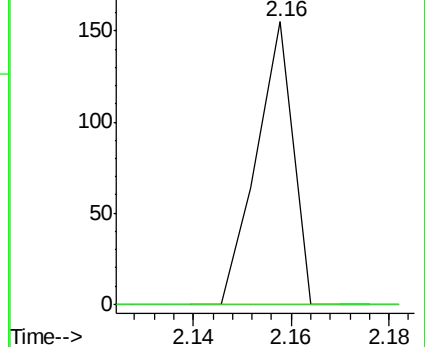
62 100

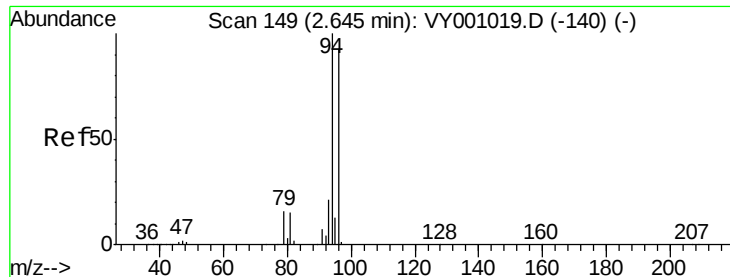
64 0.0 25.6 38.4#



Abundance Ion 61.90 (61.60 to 62.60): VY001108.D (-35) (-)

Ion 63.90 (63.60 to 64.60): VY001108.D (-35) (-)





#5

Bromomethane

Concen: 1.302 ug/l

RT: 2.68 min Scan# 154

Delta R.T. 0.03 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

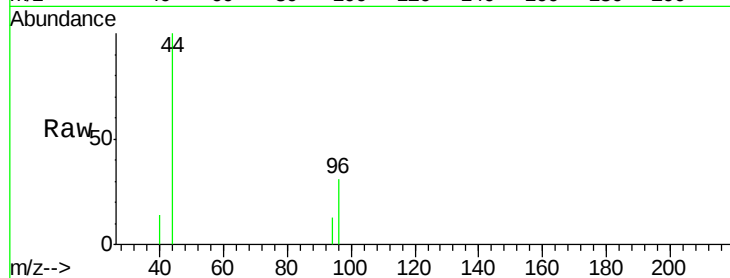
LIED-BF006-01RE

Tgt Ion: 94 Resp: 28

Ion Ratio Lower Upper

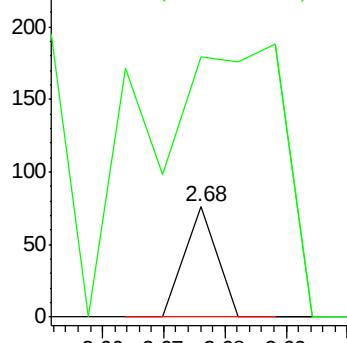
94 100

96 10.5 74.2 111.4#

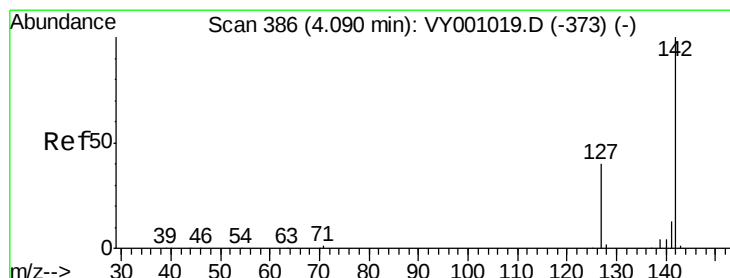
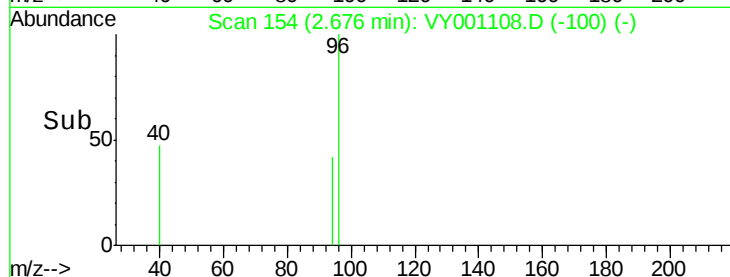


Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



Time-->



#10

Methyl Iodide

Concen: 4.082 ug/l

RT: 4.11 min Scan# 389

Delta R.T. 0.02 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

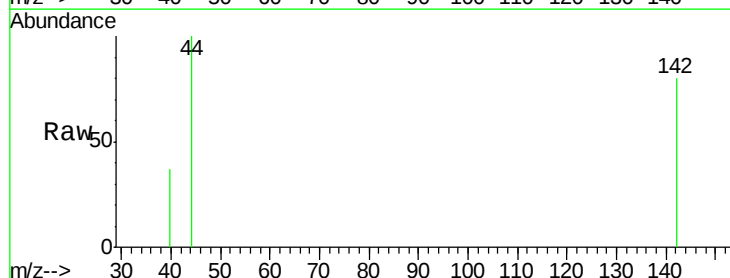
Tgt Ion: 142 Resp: 383

Ion Ratio Lower Upper

142 100

127 0.0 31.2 46.8#

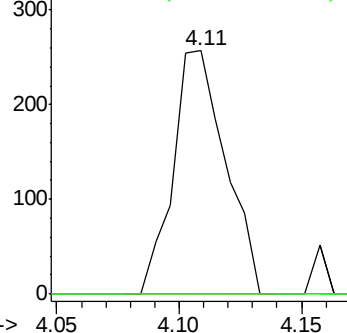
141 0.0 11.0 16.4#



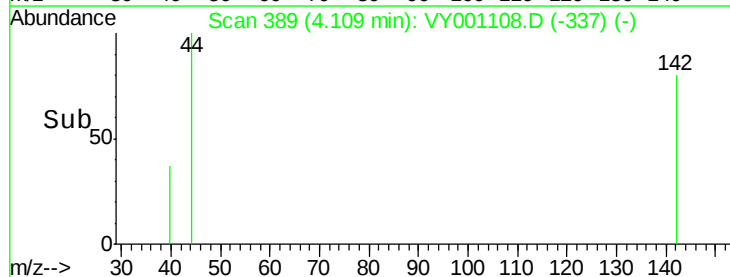
Abundance Ion 141.80 (141.50 to 142.50): V

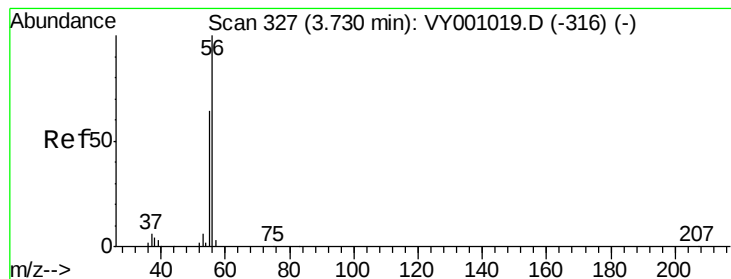
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#13

Acrolein

Concen: 9.121 ug/l

RT: 3.87 min Scan# 350

Delta R.T. 0.14 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

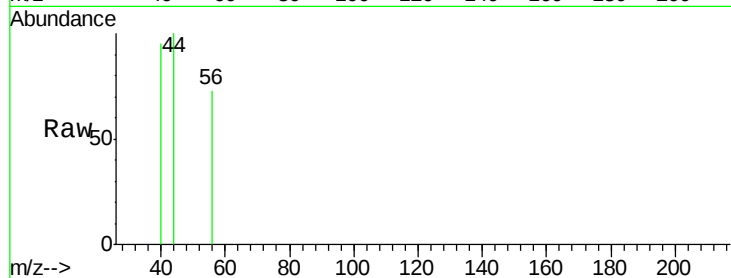
LIED-BF006-01RE

Tgt Ion: 56 Resp: 75

Ion Ratio Lower Upper

56 100

55 60.0 55.6 83.4



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

3.87

150

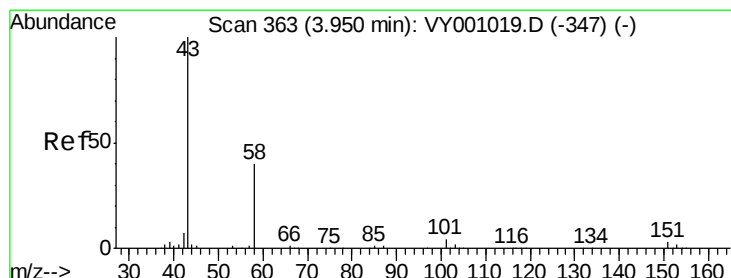
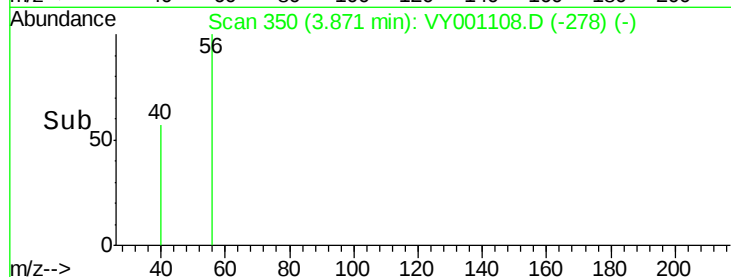
100

50

0

3.84 3.86 3.88

Time-->



#16

Acetone

Concen: 15.893 ug/l

RT: 3.94 min Scan# 362

Delta R.T. -0.01 min

Lab File: VY001108.D

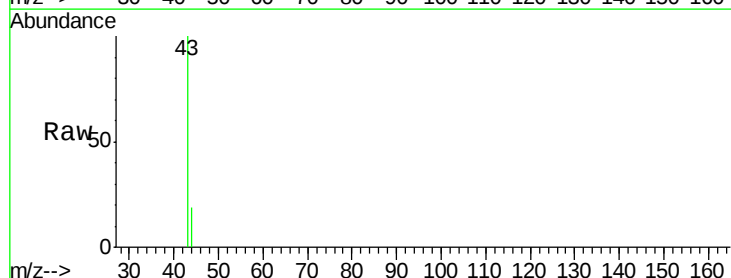
Acq: 27 Dec 2019 19:02

Tgt Ion: 43 Resp: 221

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.94

400

300

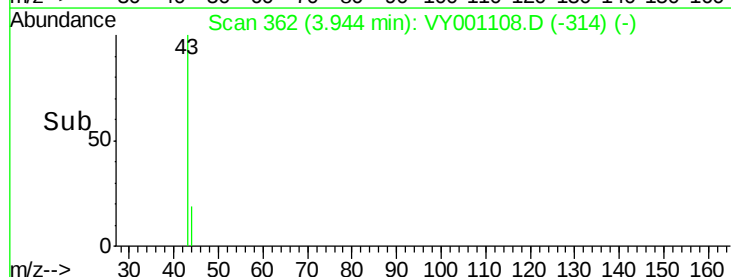
200

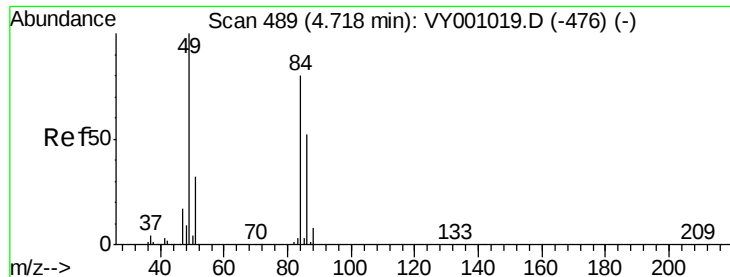
100

0

3.92 3.94 3.96

Time-->

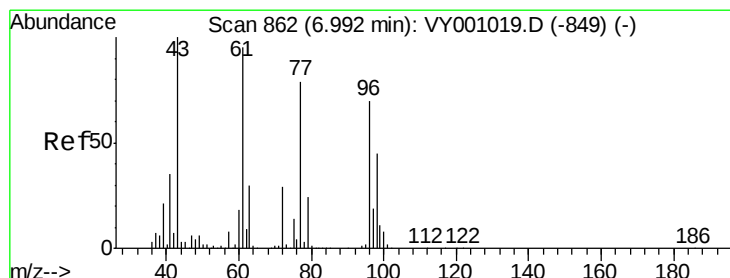
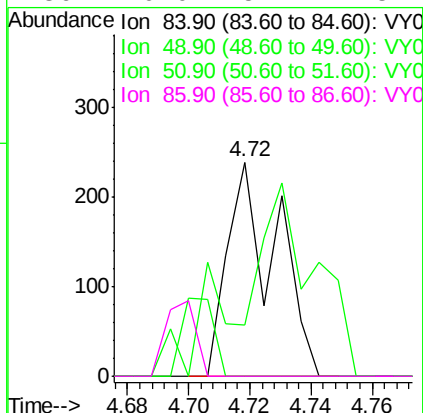
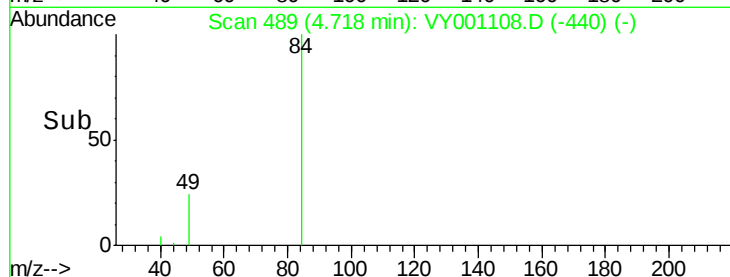
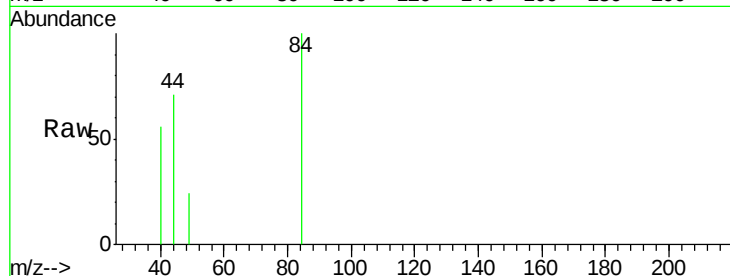




#20
Methylene Chloride
Concen: 3.201 ug/l
RT: 4.72 min Scan# 489
Delta R.T. 0.00 min
Lab File: VY001108.D
Acq: 27 Dec 2019 19:02

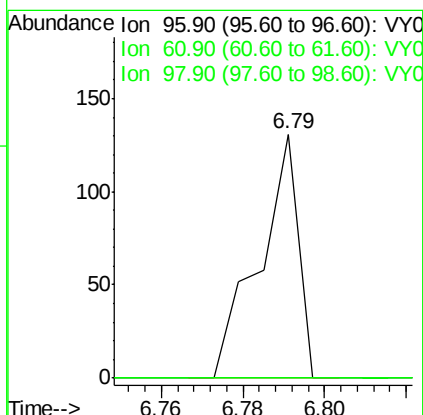
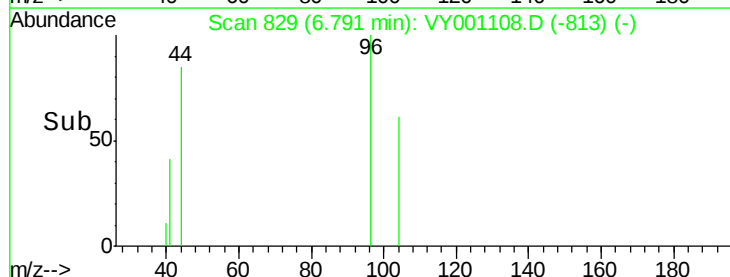
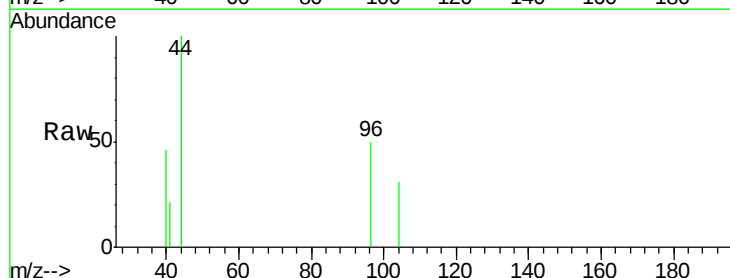
Instrument :
MSVOA_Y
ClientSampleId :
LIED-BF006-01RE

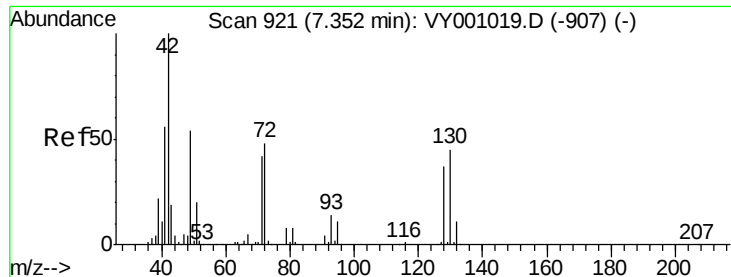
Tgt Ion: 84 Resp: 262
Ion Ratio Lower Upper
84 100
49 23.8 99.8 149.6#
51 0.0 31.4 47.2#
86 0.0 52.2 78.2#



#27
cis-1,2-Dichloroethene
Concen: 1.051 ug/l
RT: 6.79 min Scan# 829
Delta R.T. -0.20 min
Lab File: VY001108.D
Acq: 27 Dec 2019 19:02

Tgt Ion: 96 Resp: 88
Ion Ratio Lower Upper
96 100
61 0.0 0.0 268.2
98 0.0 0.0 129.2





#29

Tetrahydrofuran

Concen: 1.266 ug/l

RT: 7.49 min Scan# 943

Delta R.T. 0.13 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

LIED-BF006-01RE

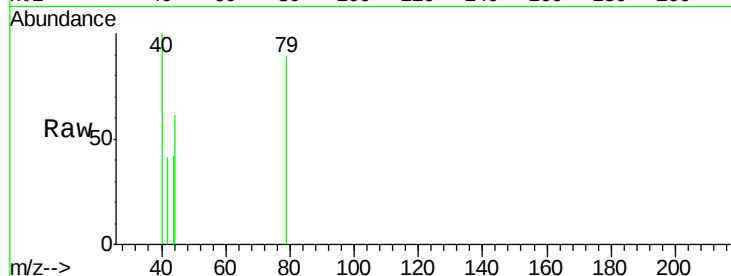
Tgt Ion: 42 Resp: 22

Ion Ratio Lower Upper

42 100

72 0.0 37.7 56.5#

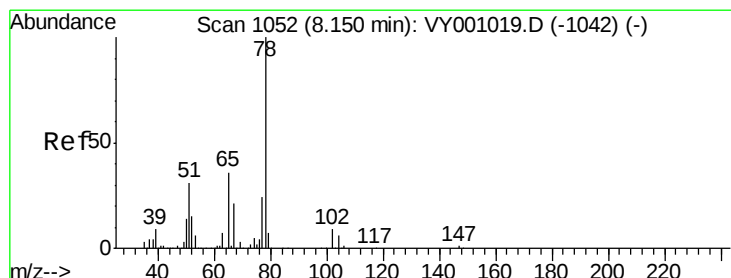
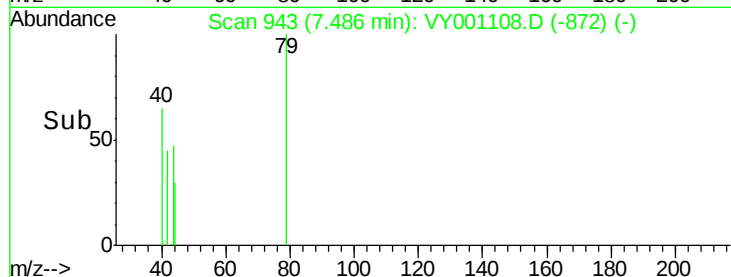
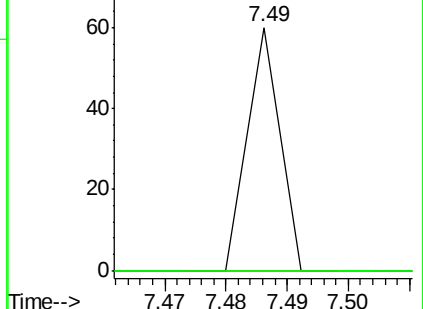
71 0.0 34.6 51.8#



Abundance Ion 42.00 (41.70 to 42.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Ion 71.00 (70.70 to 71.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 71.123 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY001108.D

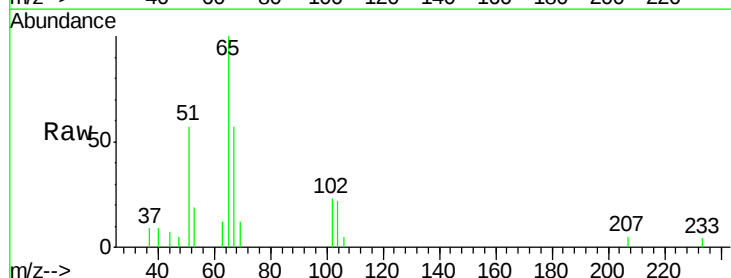
Acq: 27 Dec 2019 19:02

Tgt Ion: 65 Resp: 4293

Ion Ratio Lower Upper

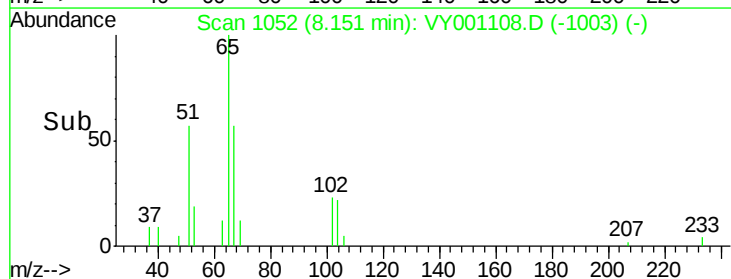
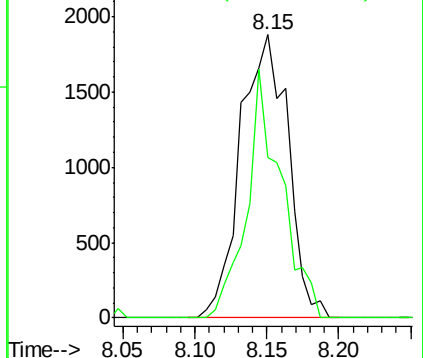
65 100

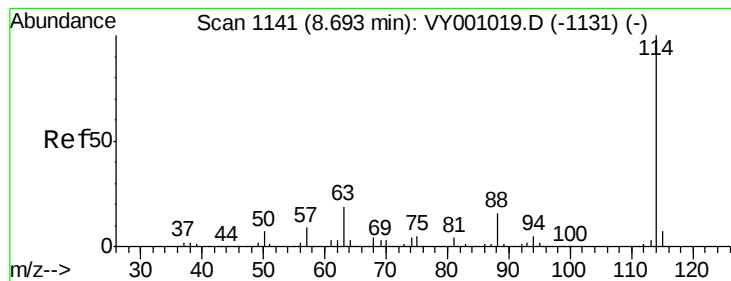
67 63.0 0.0 112.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

LIED-BF006-01RE

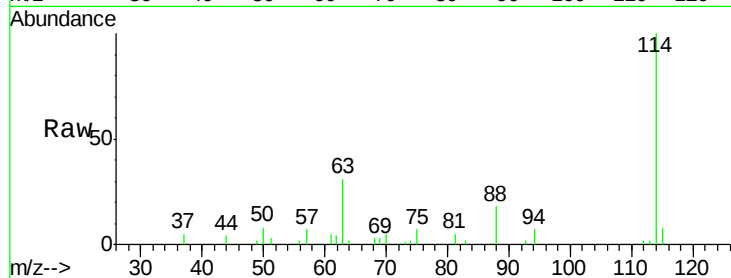
Tgt Ion:114 Resp: 10305

Ion Ratio Lower Upper

114 100

63 30.9 0.0 37.0

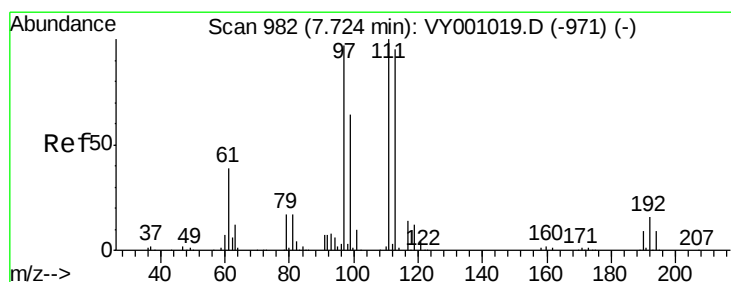
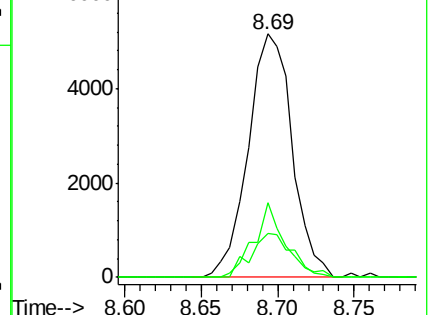
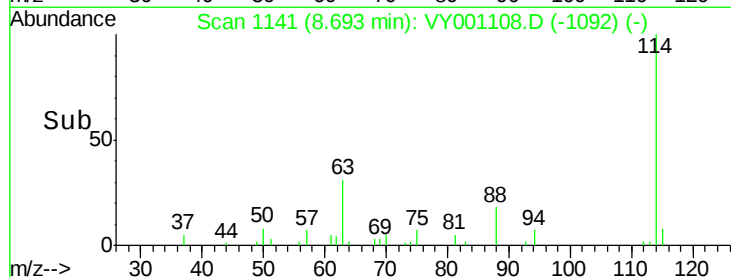
88 18.1 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 27.422 ug/l

RT: 7.72 min Scan# 981

Delta R.T. -0.01 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

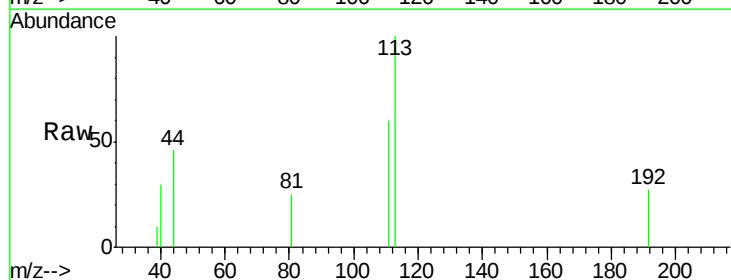
Tgt Ion:113 Resp: 1664

Ion Ratio Lower Upper

113 100

111 77.9 83.0 124.4#

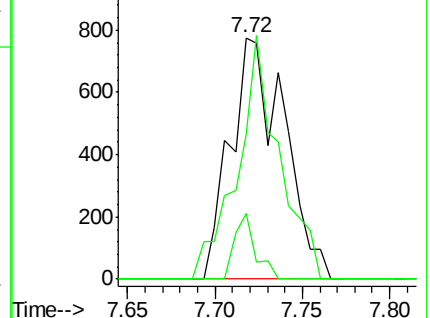
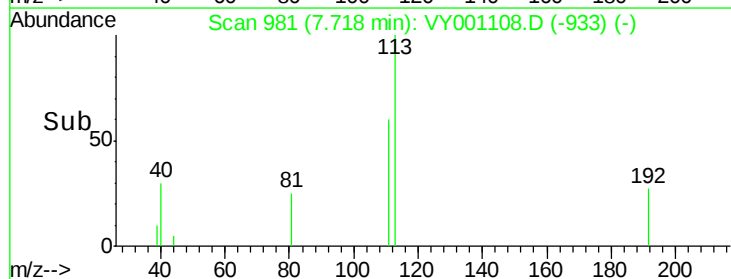
192 10.5 14.6 21.8#

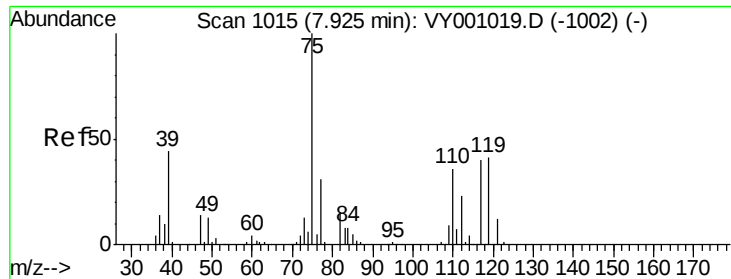


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

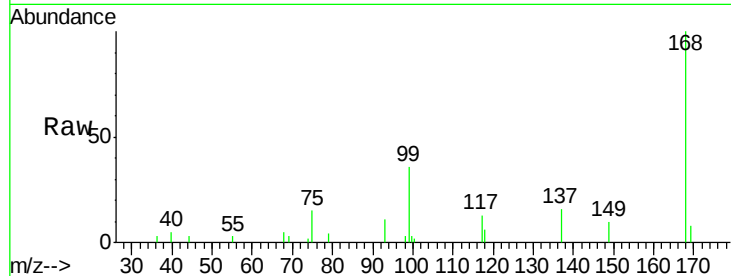




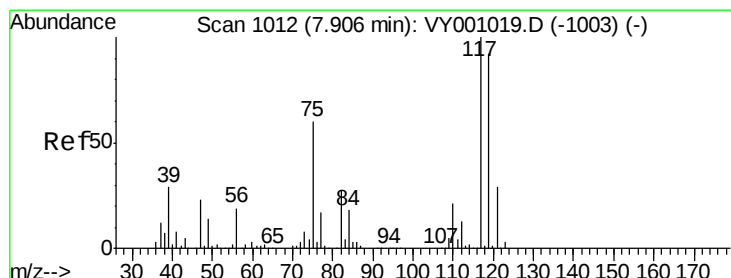
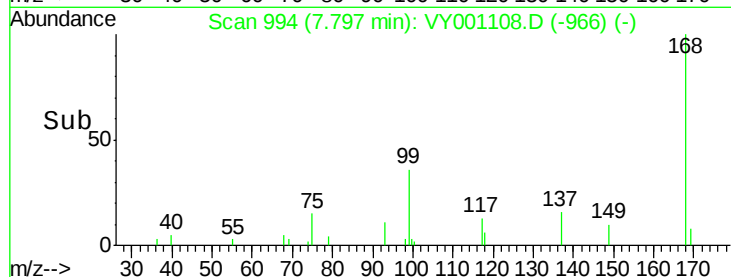
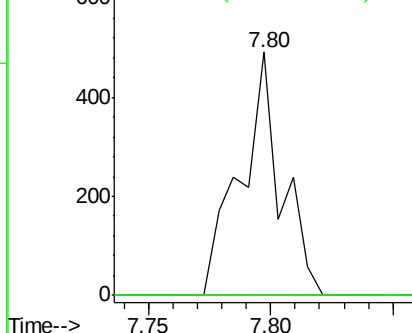
#36
 1,1-Dichloropropene
 Concen: 5.849 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY001108.D
 Acq: 27 Dec 2019 19:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 LIED-BF006-01RE

Tgt Ion: 75 Resp: 575
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.1 54.4#
 77 0.0 24.6 37.0#

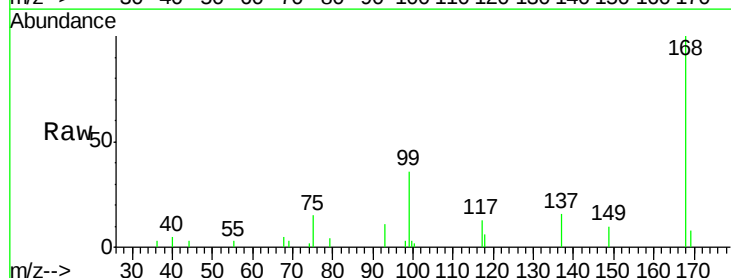


Abundance Ion 74.90 (74.60 to 75.60): VY001108.D (-966) (-)
 Ion 109.90 (109.60 to 110.60): VY001108.D (-966) (-)
 Ion 76.90 (76.60 to 77.60): VY001108.D (-966) (-)

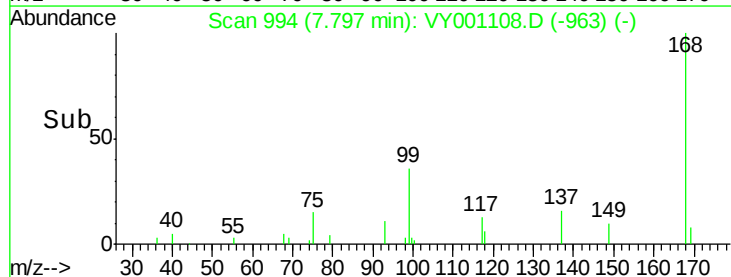
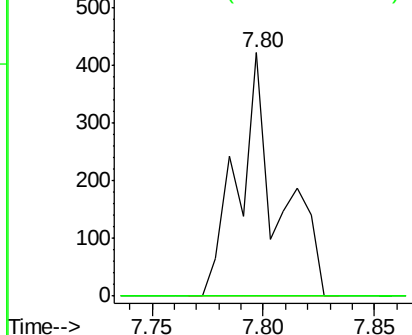


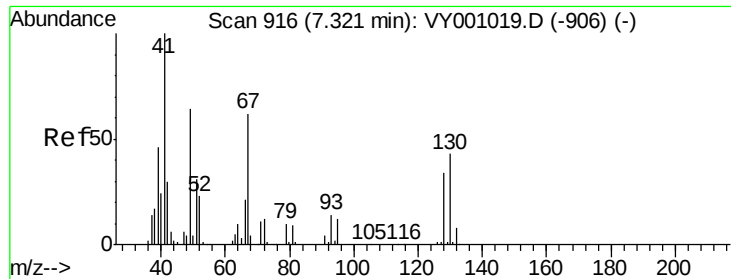
#38
 Carbon Tetrachloride
 Concen: 6.118 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.11 min
 Lab File: VY001108.D
 Acq: 27 Dec 2019 19:02

Tgt Ion: 117 Resp: 527
 Ion Ratio Lower Upper
 117 100
 119 0.0 74.2 111.2#
 121 0.0 22.9 34.3#



Abundance Ion 116.80 (116.50 to 117.50): VY001108.D (-963) (-)
 Ion 118.80 (118.50 to 119.50): VY001108.D (-963) (-)
 Ion 120.80 (120.50 to 121.50): VY001108.D (-963) (-)

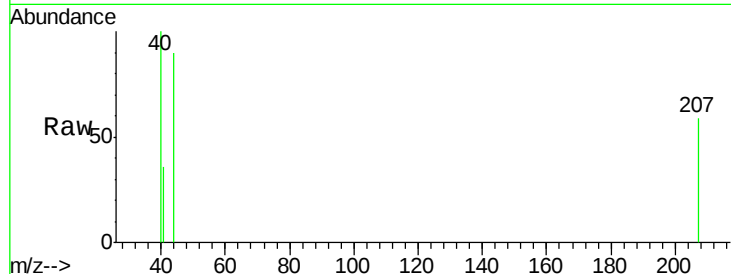




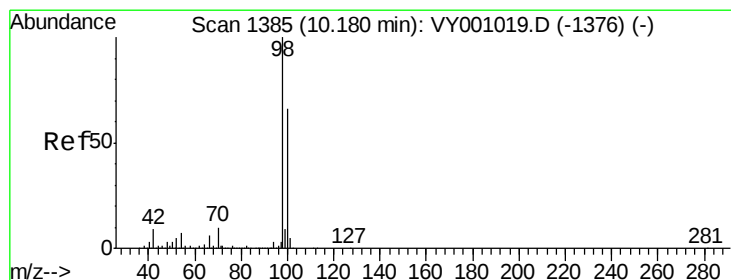
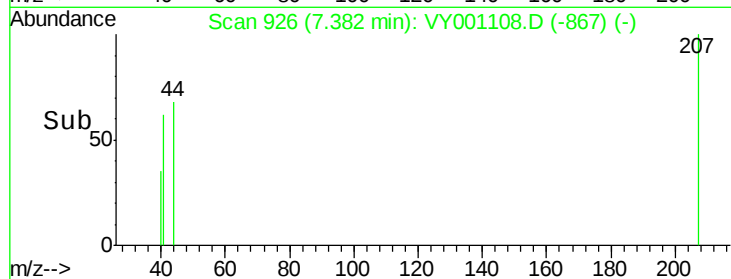
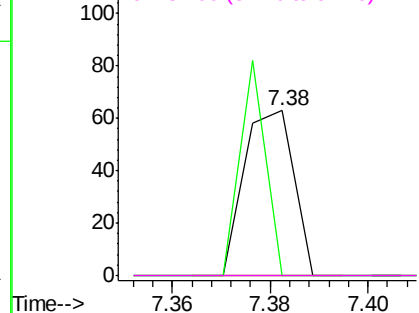
#41
Methacrylonitrile
Concen: 1.864 ug/l
RT: 7.38 min Scan# 926
Delta R.T. 0.06 min
Lab File: VY001108.D
Acq: 27 Dec 2019 19:02

Instrument :
MSVOA_Y
ClientSampleId :
LIED-BF006-01RE

Tgt Ion:	41	Resp:	44
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	68.2	0.0	0.0#
52	0.0	0.0	0.0

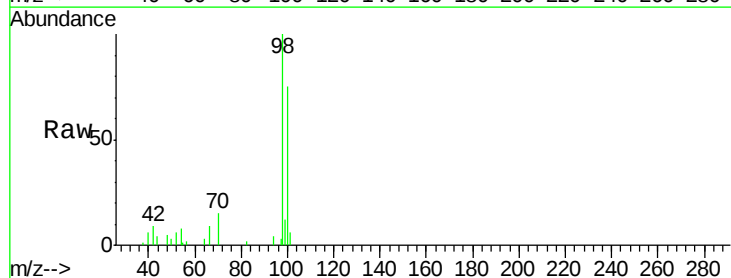


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0

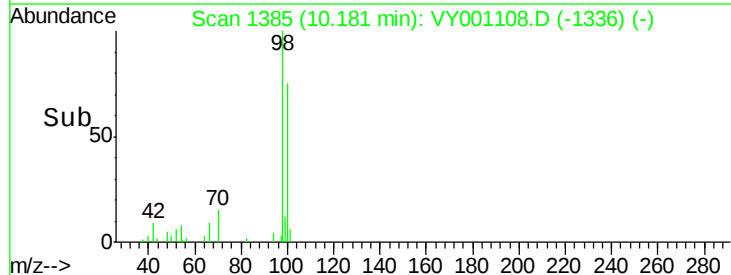
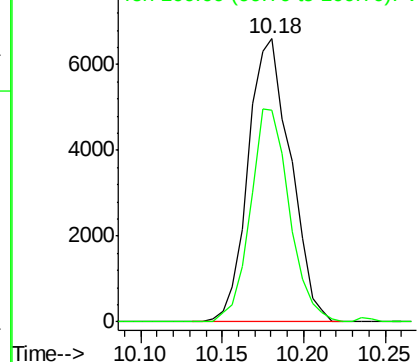


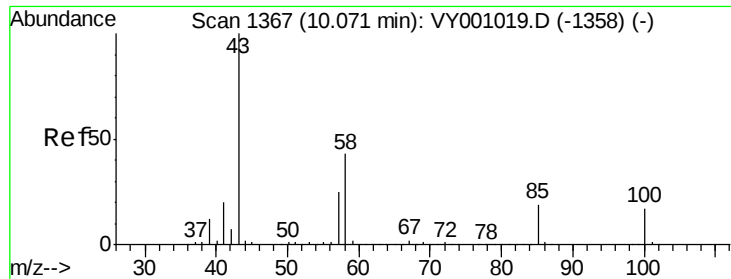
#50
Toluene-d8
Concen: 50.134 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY001108.D
Acq: 27 Dec 2019 19:02

Tgt Ion:	98	Resp:	11889
Ion	Ratio	Lower	Upper
98	100		
100	69.4	53.0	79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 1.180 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

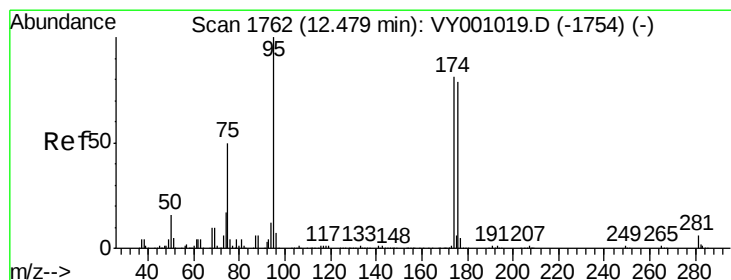
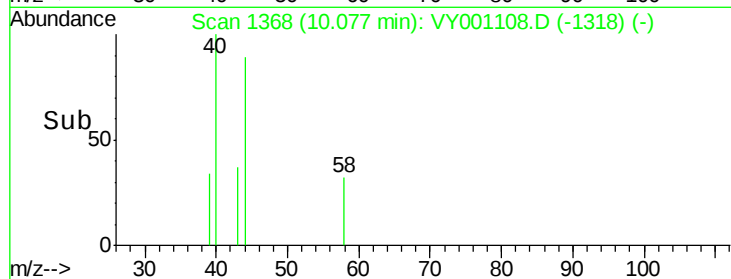
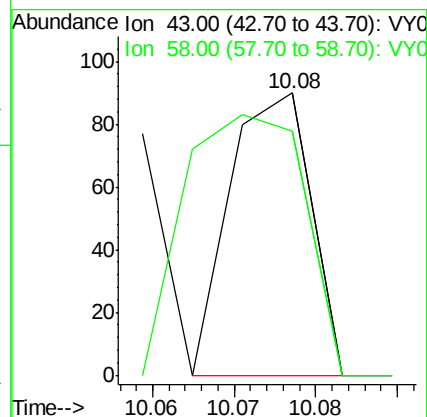
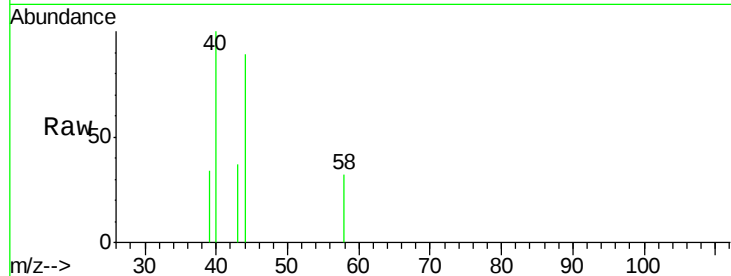
LIED-BF006-01RE

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

58 137.1 34.6 52.0#



#62

4-Bromofluorobenzene

Concen: 49.352 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

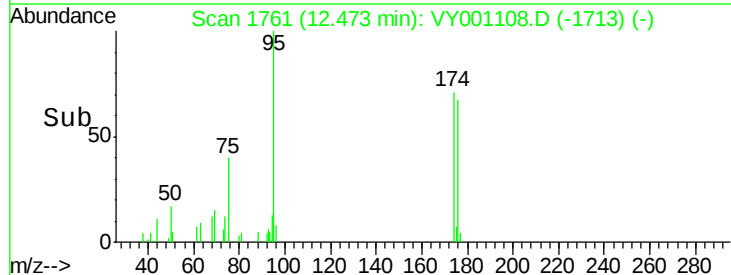
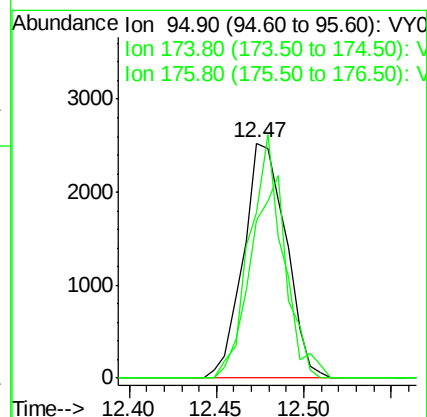
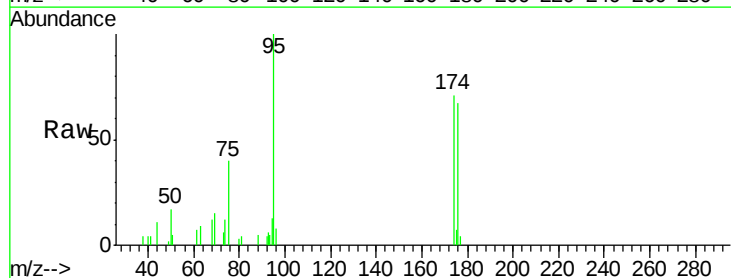
Tgt Ion: 95 Resp: 4279

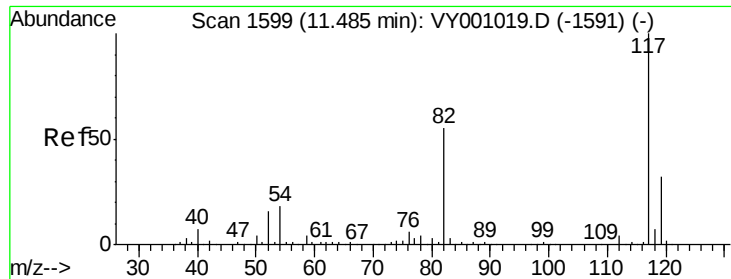
Ion Ratio Lower Upper

95 100

174 81.9 0.0 156.4

176 74.6 0.0 155.0

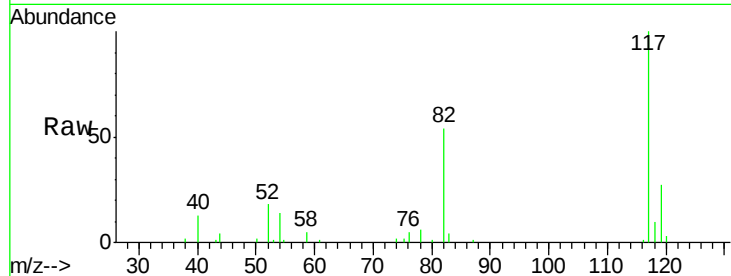




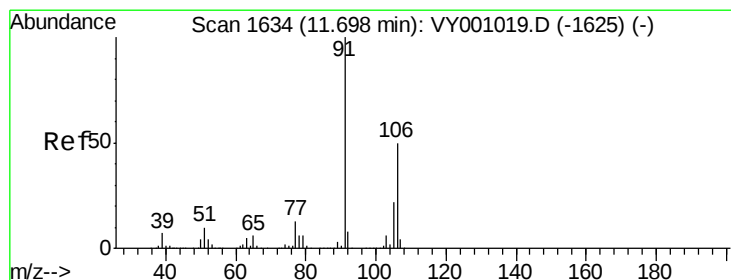
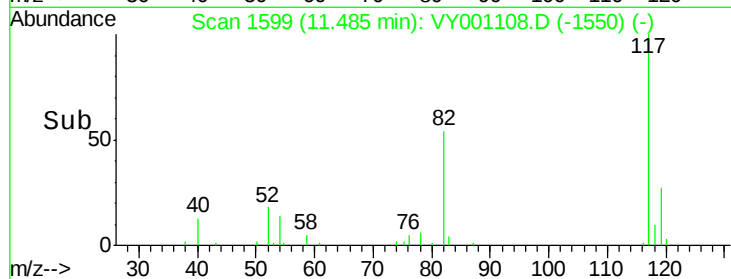
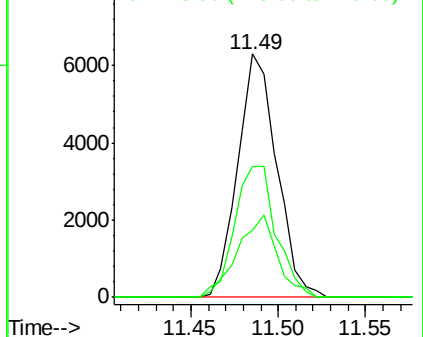
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VY001108.D
Acq: 27 Dec 2019 19:02

Instrument :
MSVOA_Y
ClientSampleId :
LIED-BF006-01RE

Tgt Ion:117 Resp: 9840
Ion Ratio Lower Upper
117 100
82 53.9 43.8 65.8
119 27.4 25.8 38.6

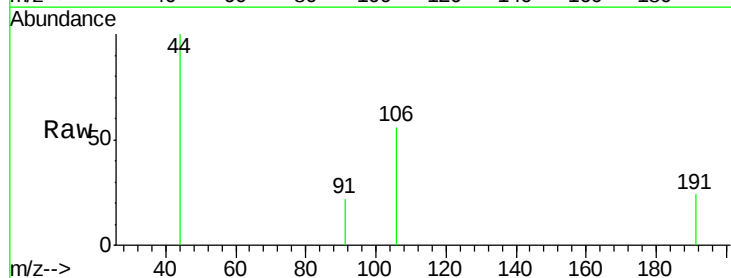


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

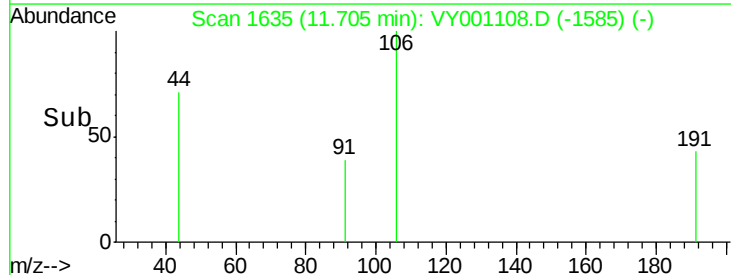
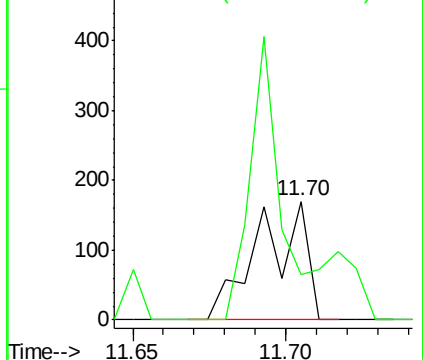


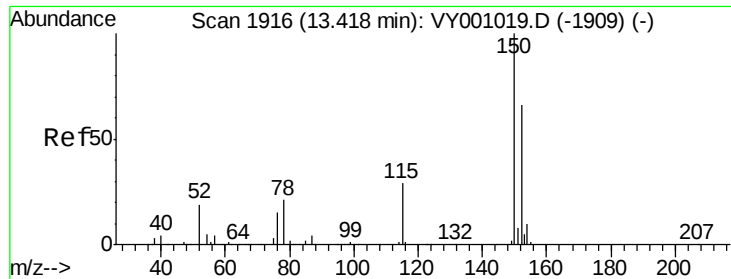
#68
m/p-Xylenes
Concen: 1.320 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VY001108.D
Acq: 27 Dec 2019 19:02

Tgt Ion:106 Resp: 184
Ion Ratio Lower Upper
106 100
91 195.7 156.4 234.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0



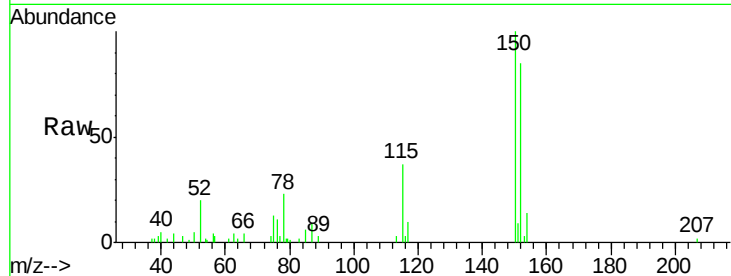


#72

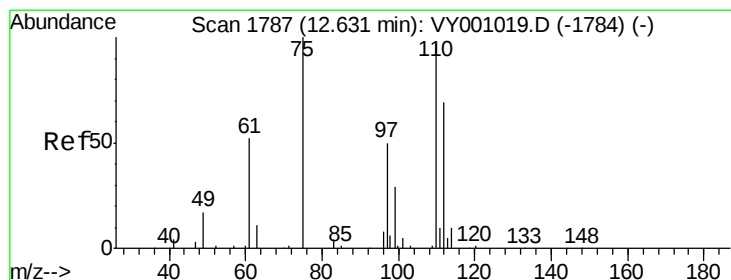
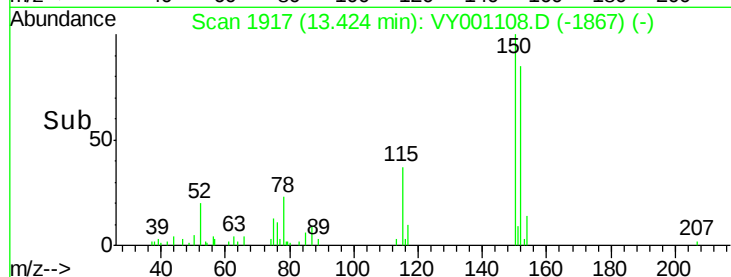
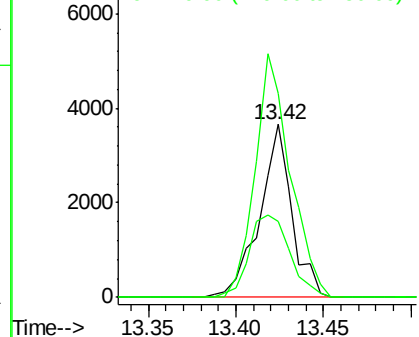
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.01 min
Lab File: VY001108.D
Acq: 27 Dec 2019 19:02

Instrument :
MSVOA_Y
ClientSampleId :
LIED-BF006-01RE

Tgt Ion:152 Resp: 4734
Ion Ratio Lower Upper
152 100
115 60.0 29.8 89.3
150 152.5 0.0 352.6



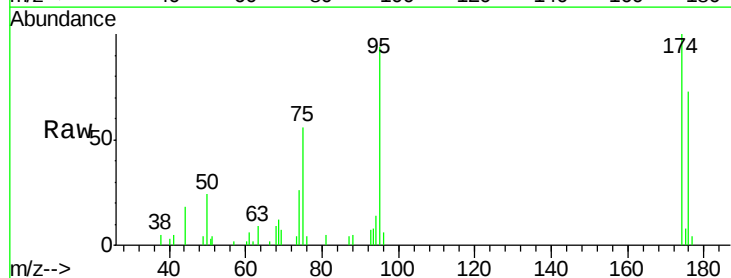
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



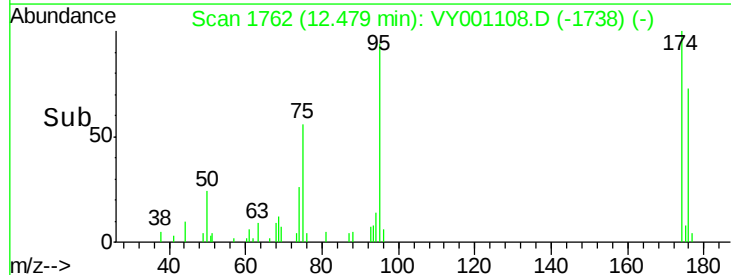
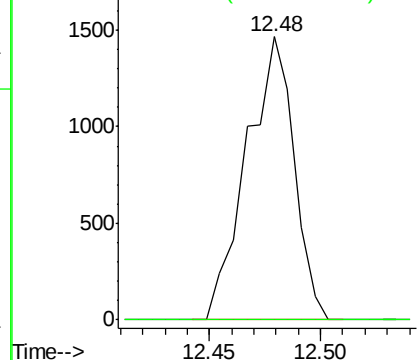
#76

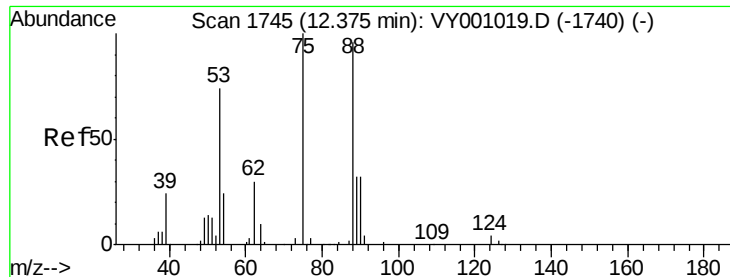
1,2,3-Trichloropropane
Concen: 37.200 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.15 min
Lab File: VY001108.D
Acq: 27 Dec 2019 19:02

Tgt Ion: 75 Resp: 2171
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 79.338 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

LIED-BF006-01RE

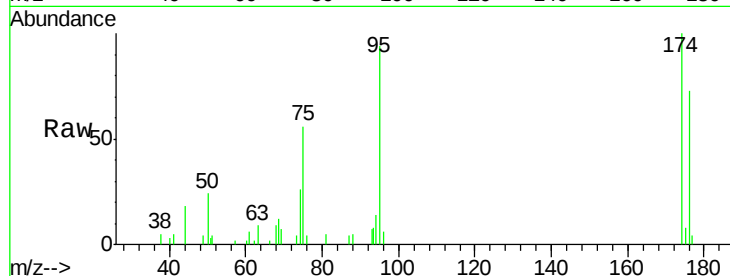
Tgt Ion: 75 Resp: 2171

Ion Ratio Lower Upper

75 100

53 0.0 60.6 91.0#

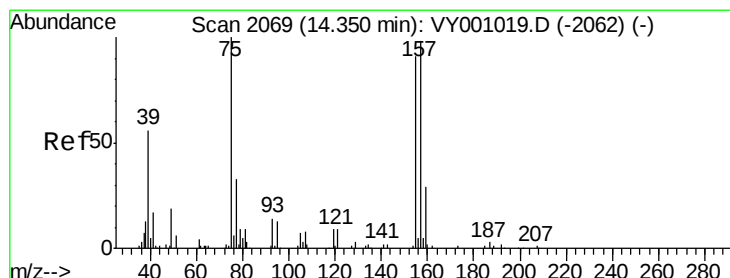
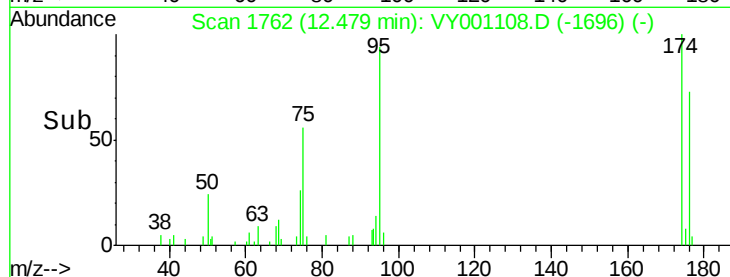
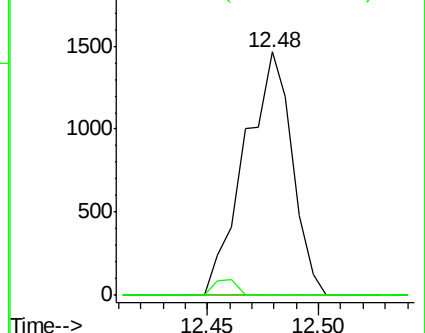
89 3.1 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.555 ug/l

RT: 14.46 min Scan# 2087

Delta R.T. 0.11 min

Lab File: VY001108.D

Acq: 27 Dec 2019 19:02

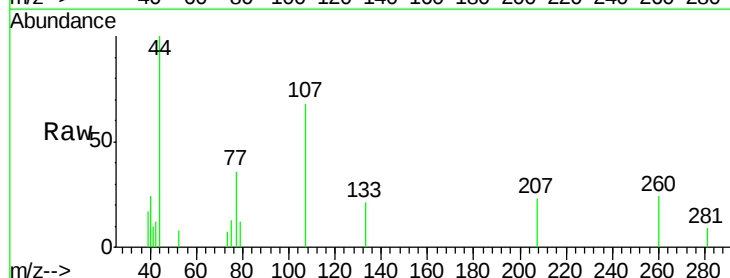
Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 46.3 138.9#

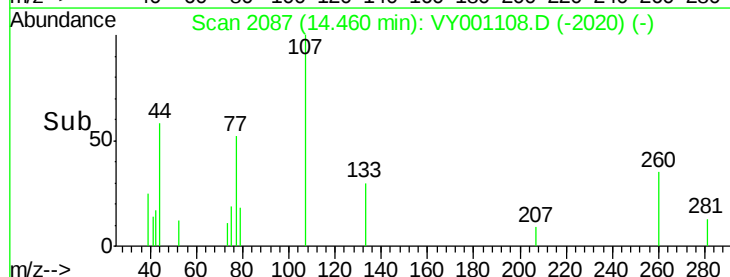
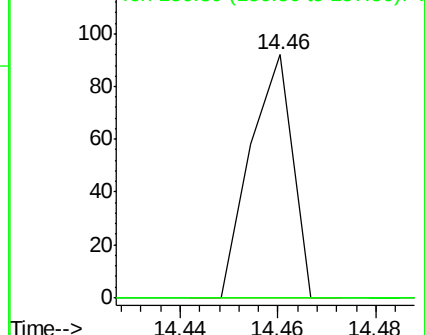
157 0.0 58.1 174.4#

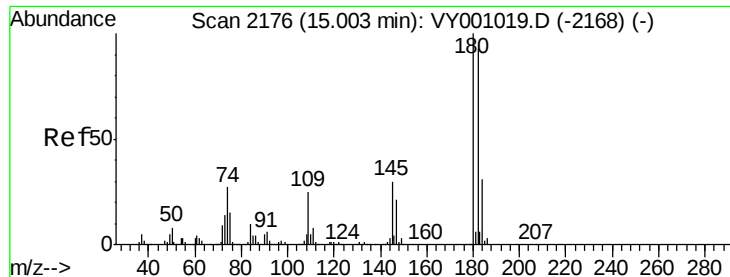


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

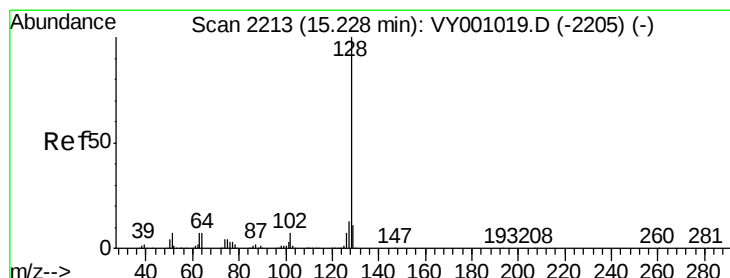
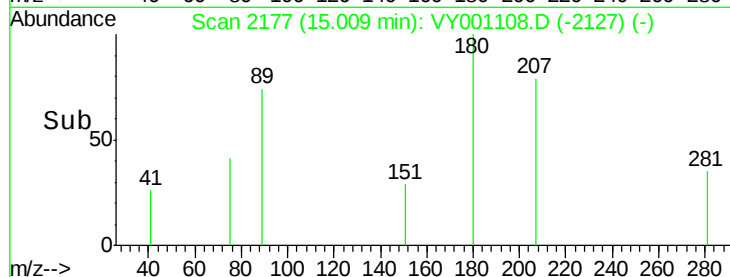
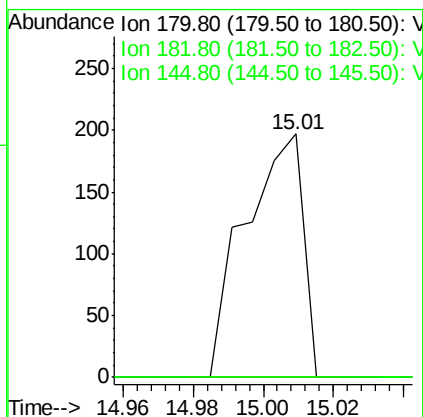
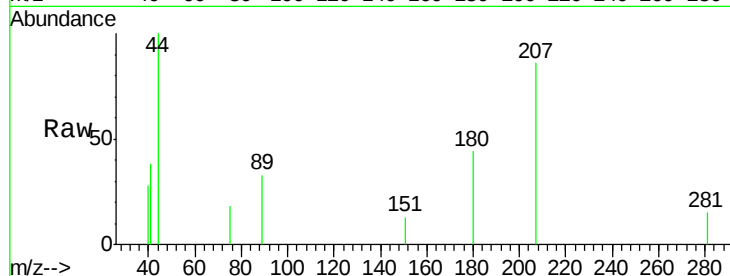




#93
 1,2,4-Trichlorobenzene
 Concen: 2.304 ug/l
 RT: 15.01 min Scan# 2177
 Delta R.T. 0.01 min
 Lab File: VY001108.D
 Acq: 27 Dec 2019 19:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 LIED-BF006-01RE

Tgt Ion:180 Resp: 227
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.8 140.3#
 145 0.0 15.3 45.9#



#95
 Naphthalene
 Concen: 1.653 ug/l
 RT: 15.23 min Scan# 2213
 Delta R.T. 0.00 min
 Lab File: VY001108.D
 Acq: 27 Dec 2019 19:02

Tgt Ion:128 Resp: 383
 Ion Ratio Lower Upper
 128 100
 127 7.0 9.9 14.9#
 129 0.0 8.6 13.0#

