

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071620\
 Data File : VY003211.D
 Acq On : 16 Jul 2020 15:56
 Operator : SY/MD
 Sample : L3308-01
 Misc : 5.05G/5ML/MSVOA Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 1

Quant Time: Jul 17 05:21:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y071020S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 13:18:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	273658	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	413330	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	331468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	122732	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	164627	71.27	ug/l	0.00
Spiked Amount						
			Recovery	=	142.54%	
35) Dibromofluoromethane	7.72	113	151742	63.79	ug/l	0.00
Spiked Amount						
			Recovery	=	127.58%	
50) Toluene-d8	10.18	98	545298	61.66	ug/l	0.00
Spiked Amount						
			Recovery	=	123.32%	
62) 4-Bromofluorobenzene	12.48	95	149594	46.83	ug/l	0.00
Spiked Amount						
			Recovery	=	93.66%	

Target Compounds

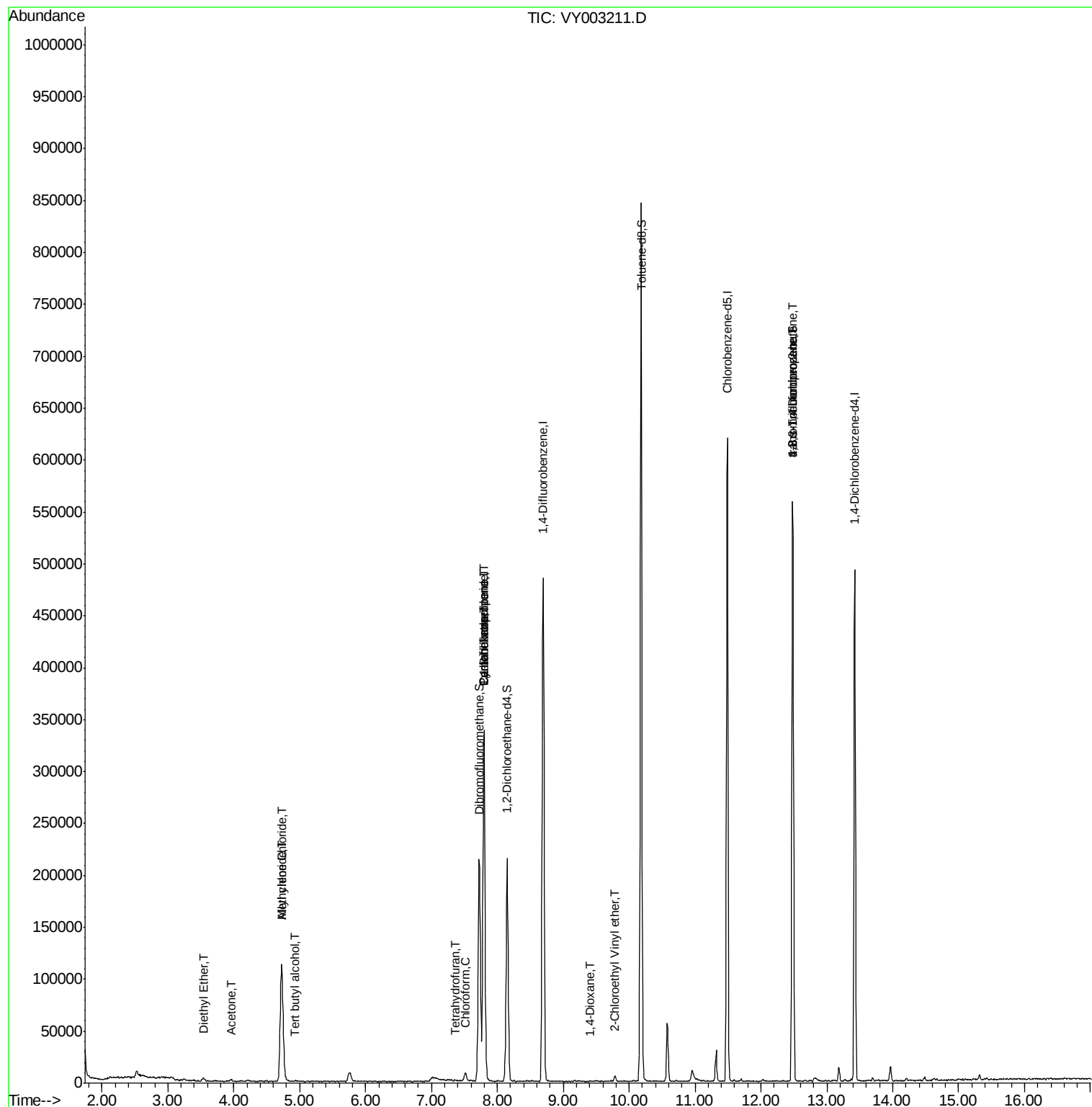
					Qvalue	
8) Diethyl Ether	3.54	74	1762	1.319	ug/l	62
11) Tert butyl alcohol	4.93	59	440	1.762	ug/l #	72
14) Allyl chloride	4.72	41	4017	1.189	ug/l #	25
16) Acetone	3.95	43	2892	5.605	ug/l	99
20) Methylene Chloride	4.72	84	83673	30.039	ug/l	95
29) Tetrahydrofuran	7.36	42	593	1.042	ug/l #	35
30) Chloroform	7.52	83	8066	1.803	ug/l	100
31) Cyclohexane	7.79	56	5019	1.195	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	20302	5.419	ug/l #	49
38) Carbon Tetrachloride	7.80	117	25517	6.598	ug/l #	16
49) 1,4-Dioxane	9.41	88	20	1.011	ug/l #	28
58) 2-Chloroethyl Vinyl ether	9.78	63	2264	1.478	ug/l	95
76) 1,2,3-Trichloropropane	12.48	75	78999	72.717	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	78999	141.521	ug/l #	13

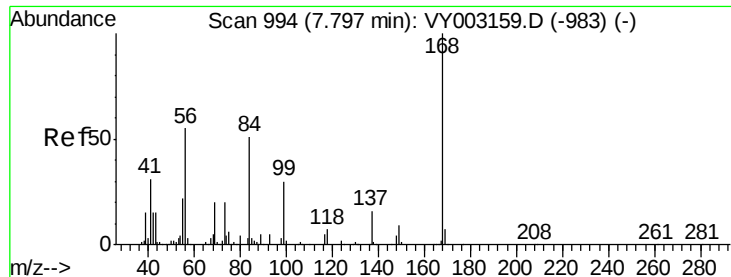
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY003211.D

Acq: 16 Jul 2020 15:56

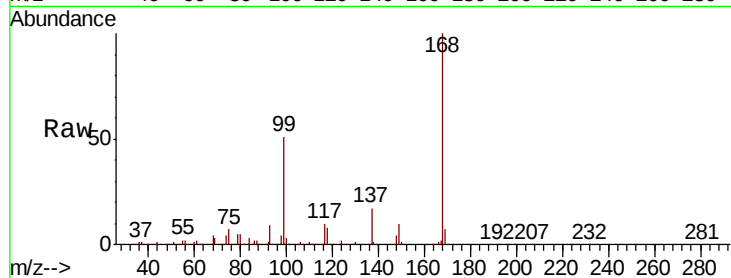
Instrument :
MSVOA_Y
ClientSampleId :
1

Tot Ion:168 Resp: 273658

Ion Ratio Lower Upper

168 100

99 50.8 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): VY003211.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003211.D (-945) (-)

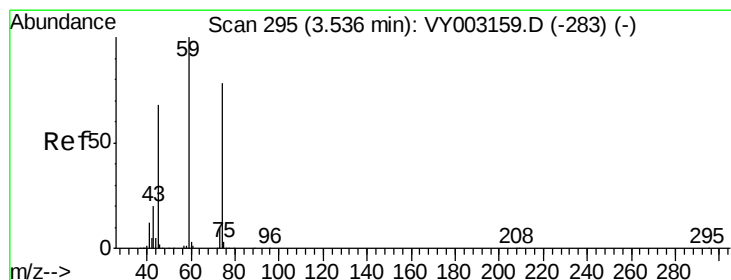
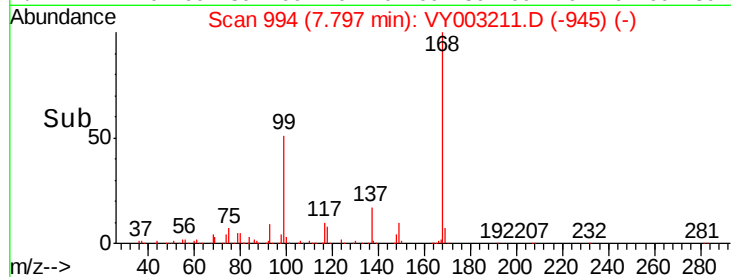
7.80

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.319 ug/l

RT: 3.54 min Scan# 296

Delta R.T. 0.01 min

Lab File: VY003211.D

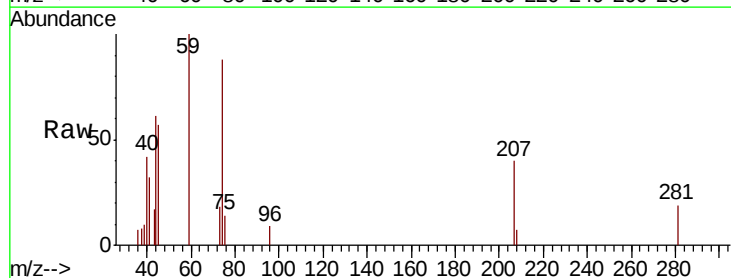
Acq: 16 Jul 2020 15:56

Tgt Ion: 74 Resp: 1762

Ion Ratio Lower Upper

74 100

45 126.7 45.3 135.8



Abundance Ion 74.00 (73.70 to 74.70): VY003211.D (-246) (-)

Ion 45.00 (44.70 to 45.70): VY003211.D (-246) (-)

3.54

800

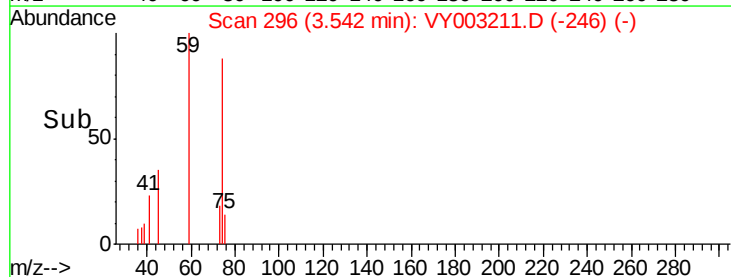
600

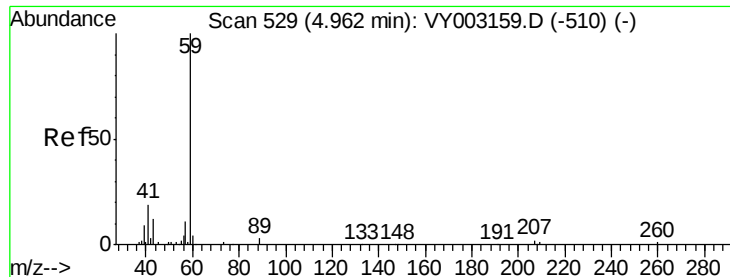
400

200

0

Time-->

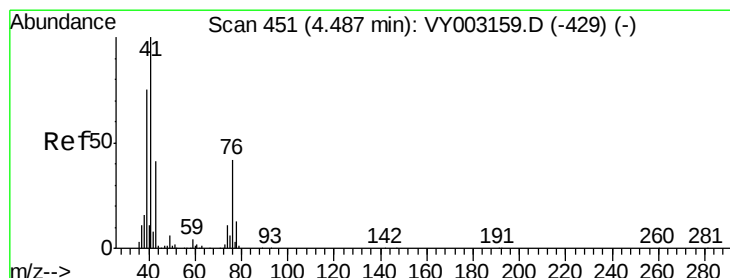
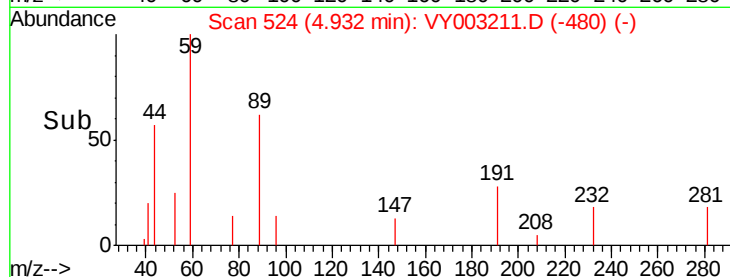
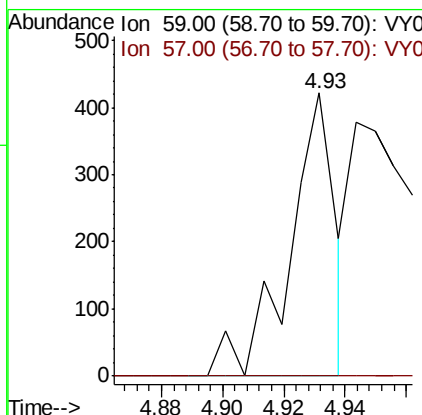
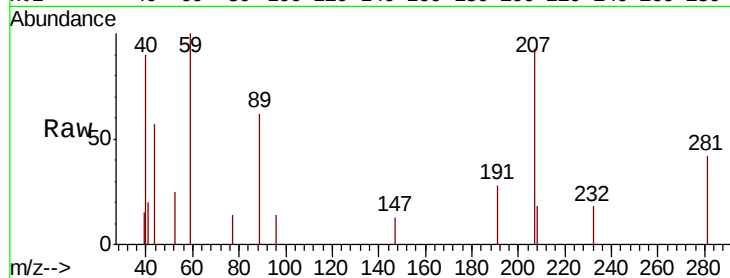




#11
Tert butyl alcohol
Concen: 1.762 ug/l
RT: 4.93 min Scan# 524
Delta R.T. -0.03 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

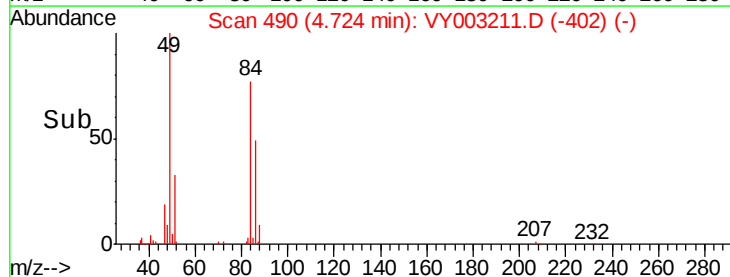
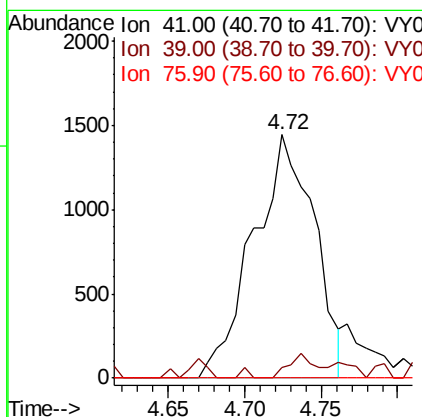
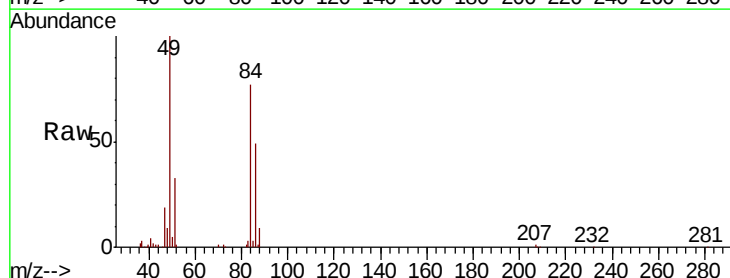
Instrument :
MSVOA_Y
ClientSampled :
1

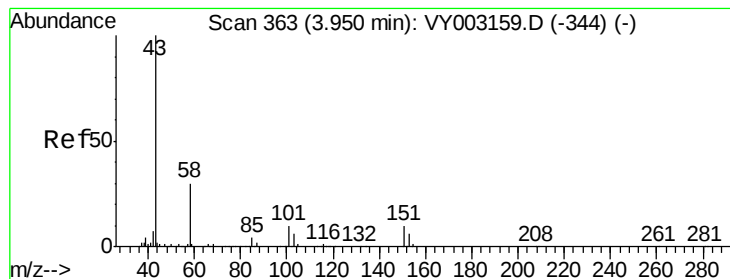
Tot Ion: 59 Resp: 440
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#14
Allyl chloride
Concen: 1.189 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.24 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

Tgt Ion: 41 Resp: 4017
Ion Ratio Lower Upper
41 100
39 4.5 56.6 85.0#
76 0.0 31.6 47.4#





#16

Acetone

Concen: 5.605 ug/l

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VY003211.D

Acq: 16 Jul 2020 15:56

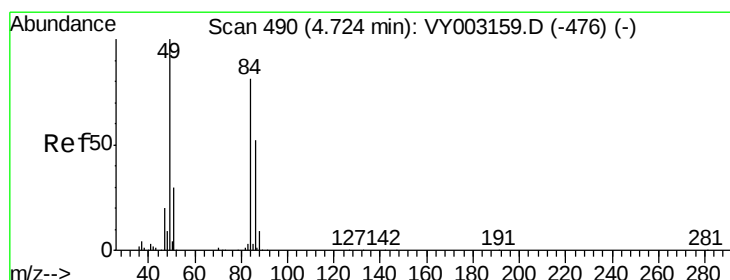
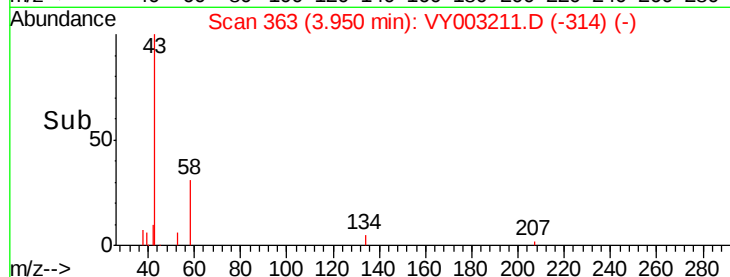
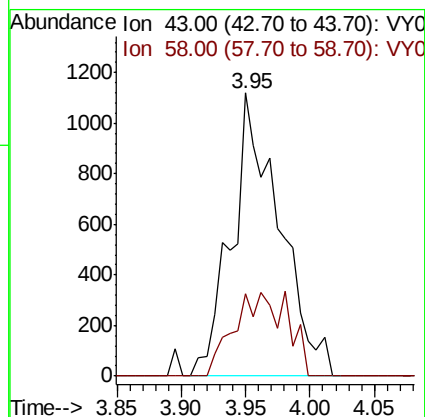
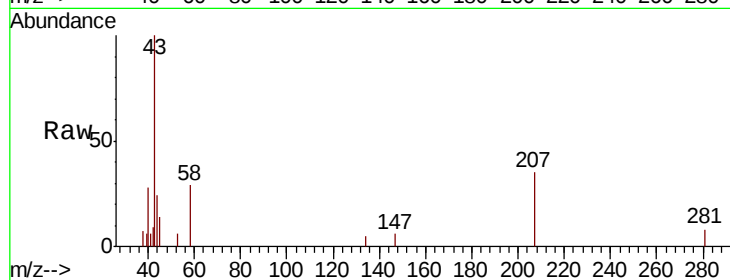
Instrument :
MSVOA_Y
ClientSampleId :
1

Tot Ion: 43 Resp: 2892

Ion Ratio Lower Upper

43 100

58 29.2 23.8 35.6



#20

Methylene Chloride

Concen: 30.039 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.00 min

Lab File: VY003211.D

Acq: 16 Jul 2020 15:56

Tgt Ion: 84 Resp: 83673

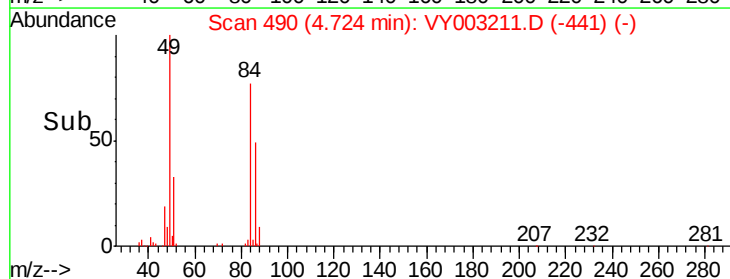
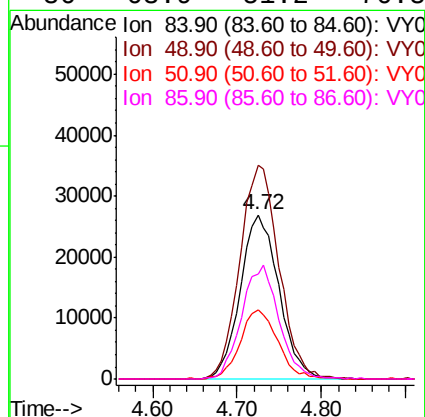
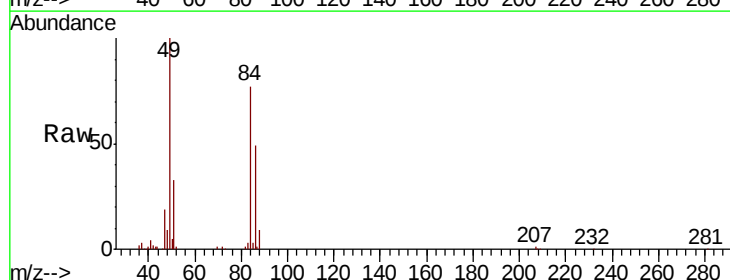
Ion Ratio Lower Upper

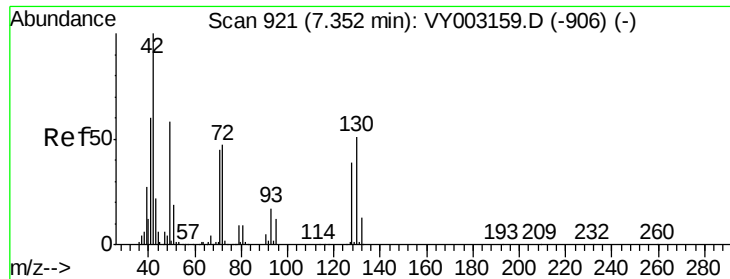
84 100

49 130.3 98.2 147.4

51 41.9 29.8 44.6

86 63.9 51.2 76.8

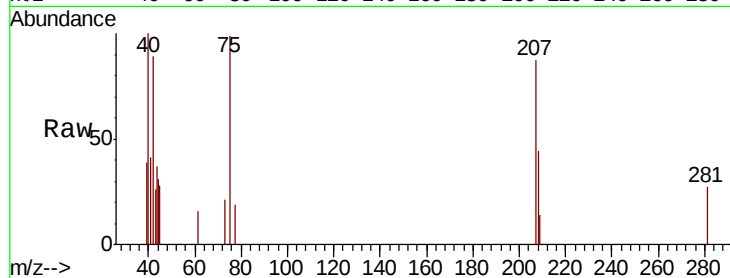




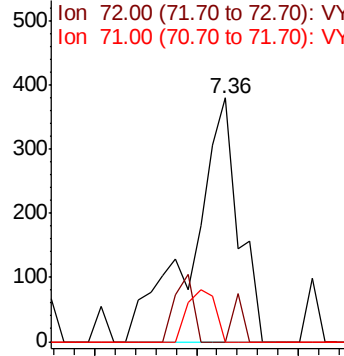
#29
Tetrahydrofuran
Concen: 1.042 ug/l
RT: 7.36 min Scan# 923
Delta R.T. 0.01 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

Instrument :
MSVOA_Y
ClientSampleId :
1

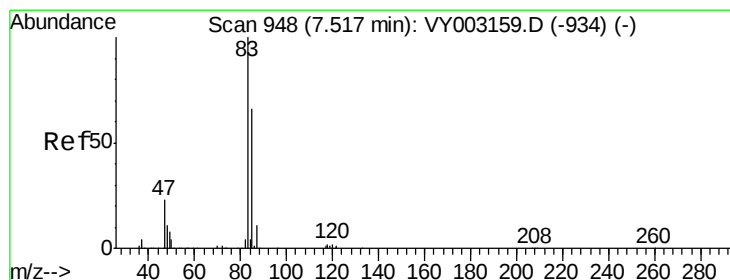
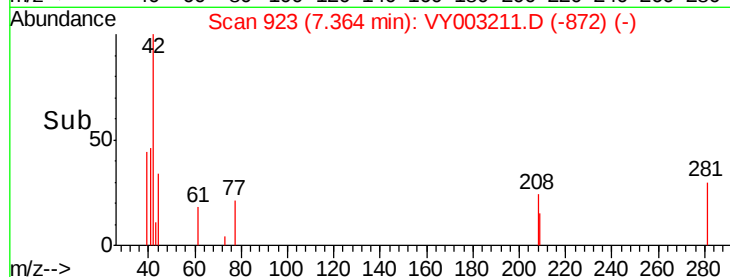
Tot Ion	Ratio	Lower	Upper
42	100		
72	4.6	36.7	55.1#
71	0.0	34.2	51.4#



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

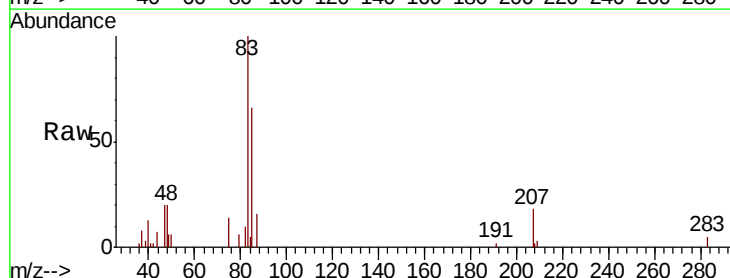


Time-->

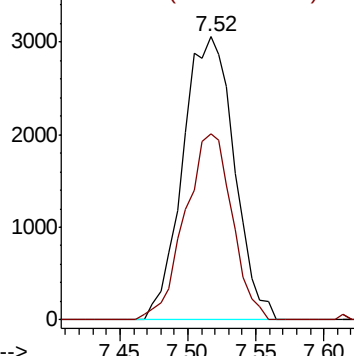


#30
Chloroform
Concen: 1.803 ug/l
RT: 7.52 min Scan# 948
Delta R.T. -0.00 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

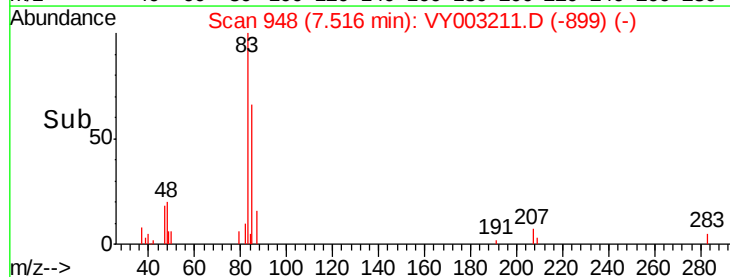
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.6	78.8

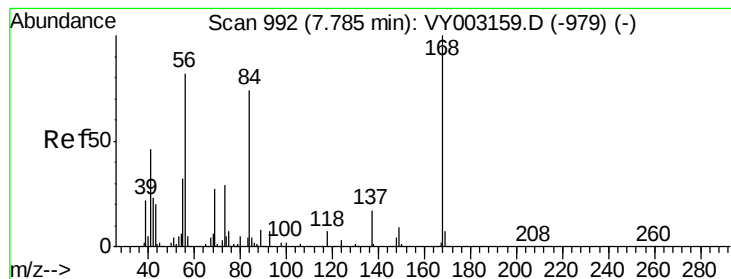


Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 84.90 (84.60 to 85.60): VY0



Time-->





#31

Cyclohexane

Concen: 1.195 ug/l

RT: 7.79 min Scan# 993

Delta R.T. 0.01 min

Lab File: VY003211.D

Acq: 16 Jul 2020 15:56

Instrument :
MSVOA_Y
ClientSampled :
1

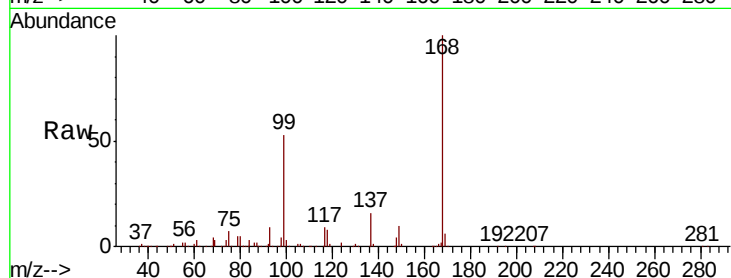
Tot Ion: 56 Resp: 5019

Ion Ratio Lower Upper

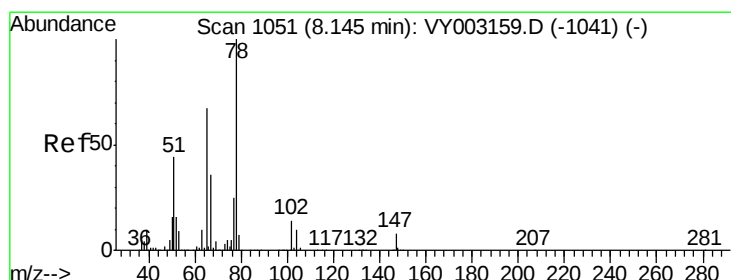
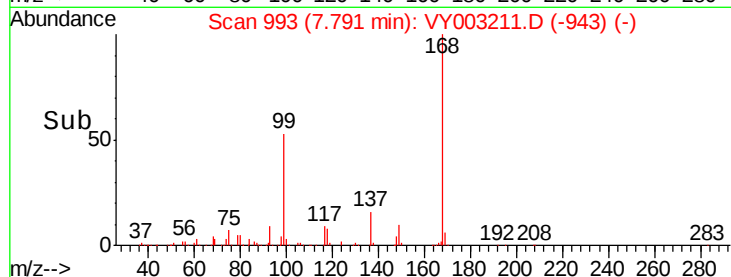
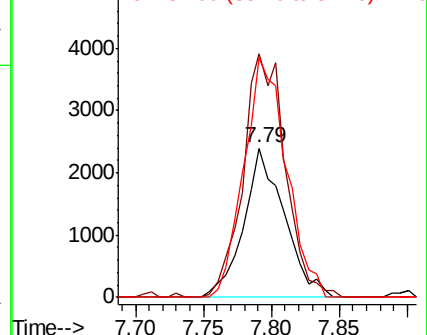
56 100

69 162.8 26.7 40.1#

84 160.1 72.3 108.5#



Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 71.274 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003211.D

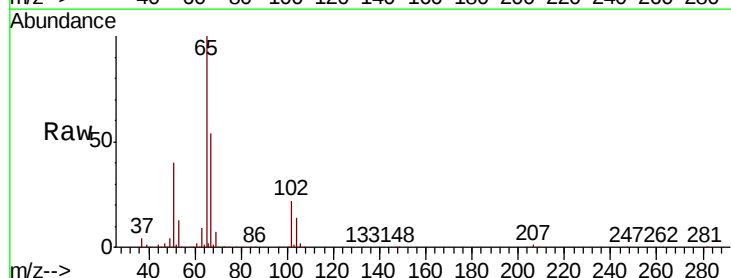
Acq: 16 Jul 2020 15:56

Tgt Ion: 65 Resp: 164627

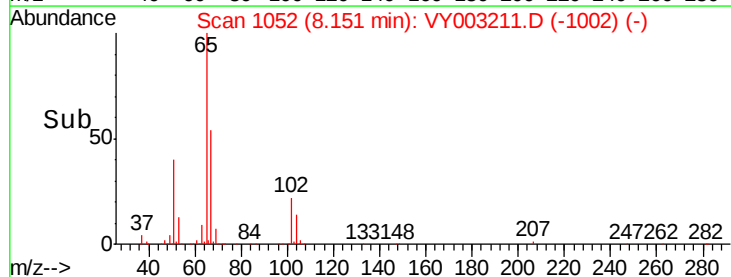
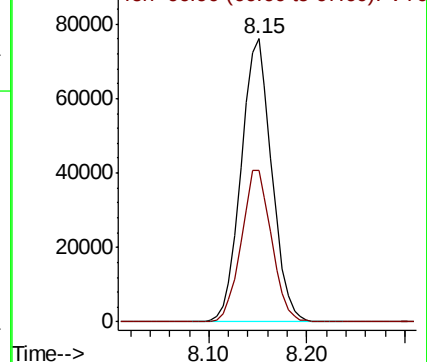
Ion Ratio Lower Upper

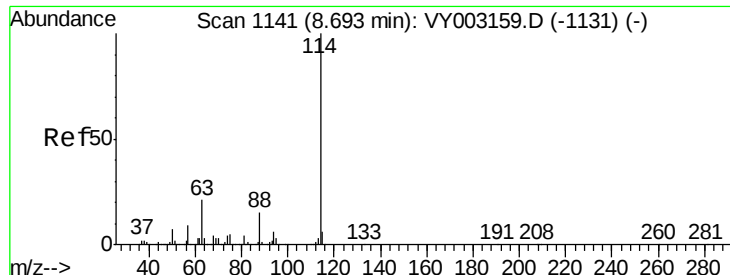
65 100

67 52.9 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0

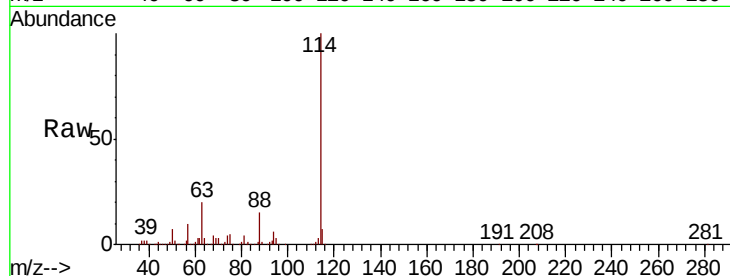




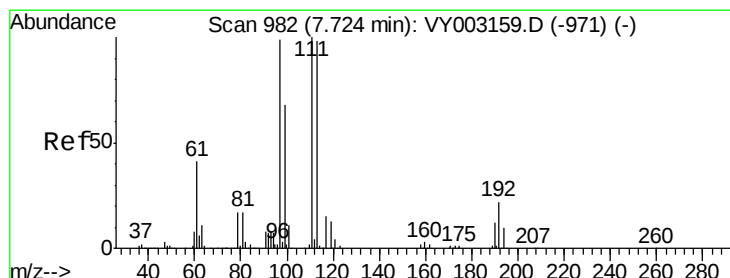
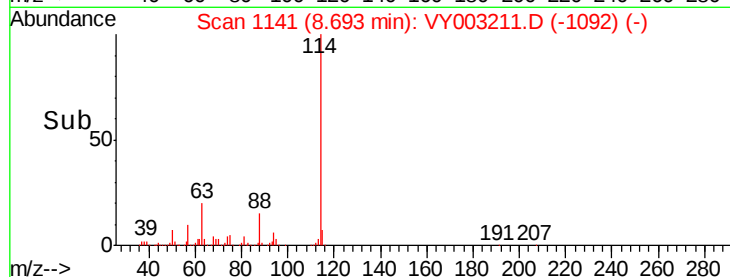
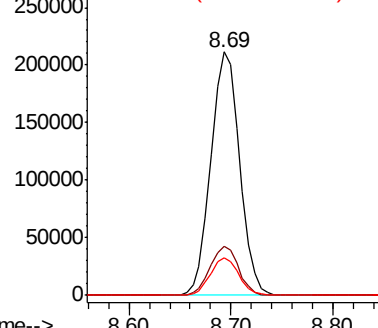
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.69 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

Instrument :
MSVOA_Y
ClientSampled :
1

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	41.2
88	15.4	0.0	30.2

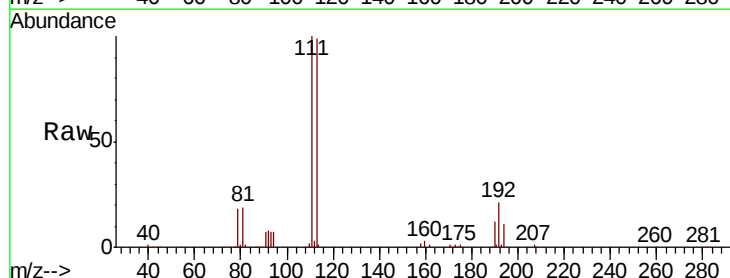


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VY0
Ion 87.90 (87.60 to 88.60): VY0

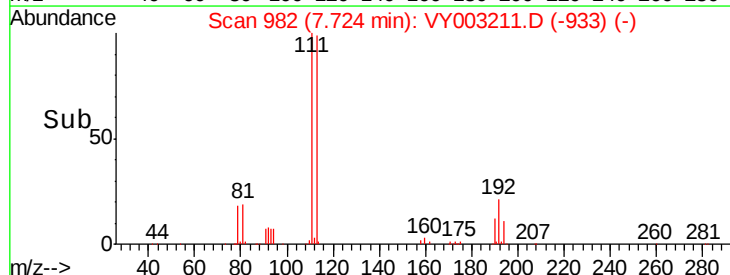
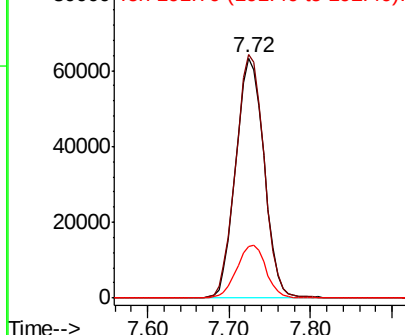


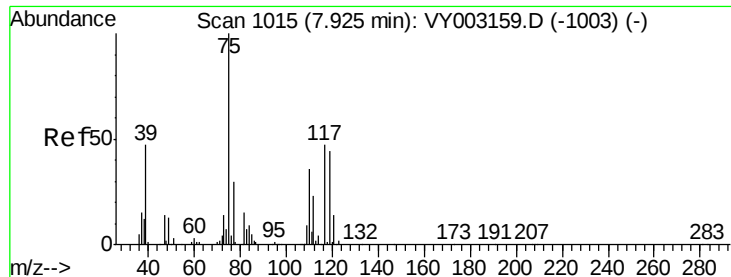
#35
Dibromofluoromethane
Concen: 63.794 ug/l
RT: 7.72 min Scan# 982
Delta R.T. -0.00 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.1	123.1
192	22.7	18.8	28.2



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

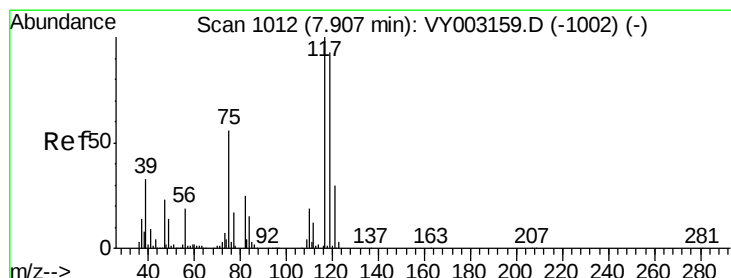
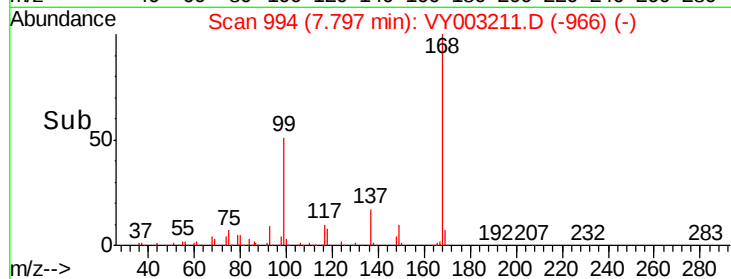
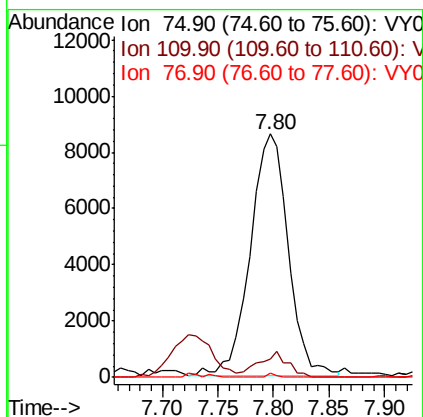
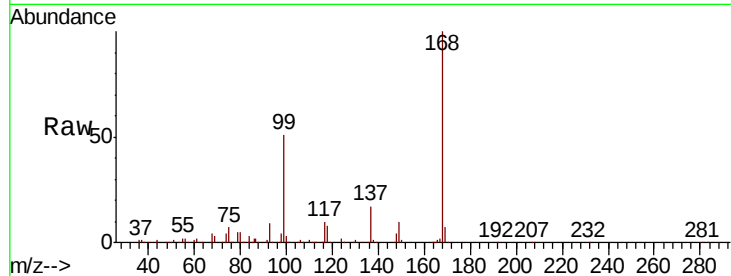




#36
 1,1-Dichloropropene
 Concen: 5.419 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY003211.D
 Acq: 16 Jul 2020 15:56

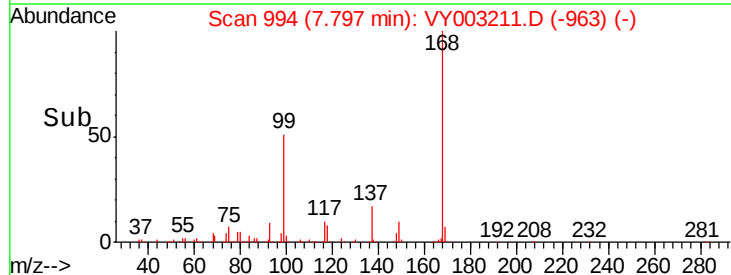
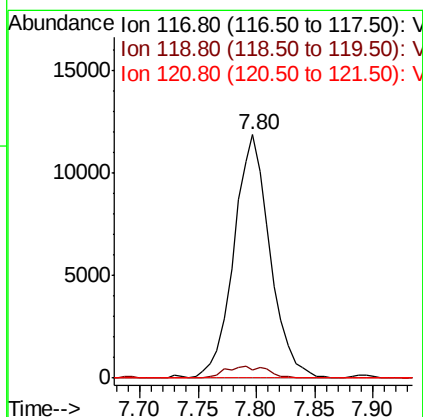
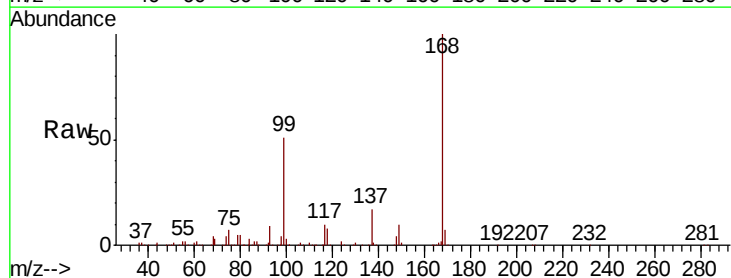
Instrument :
 MSVOA_Y
 ClientSampleId :
 1

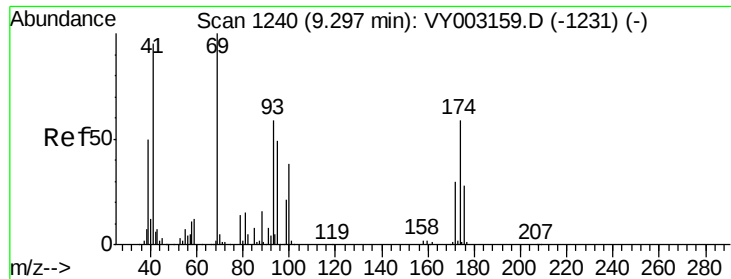
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.1#
77	0.4	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.598 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.11 min
 Lab File: VY003211.D
 Acq: 16 Jul 2020 15:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.3	74.5	111.7#
121	0.0	24.2	36.2#

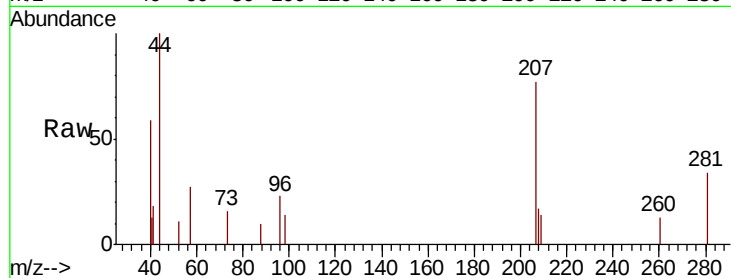




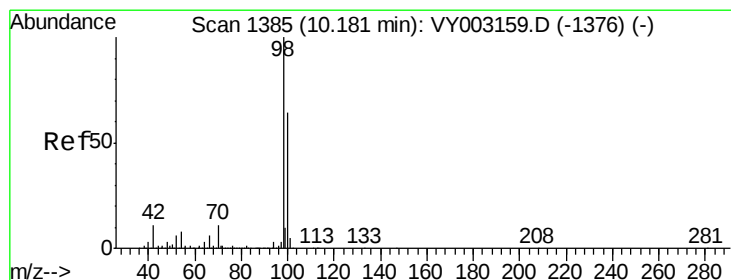
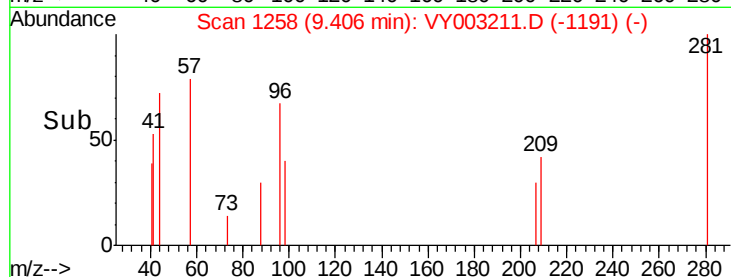
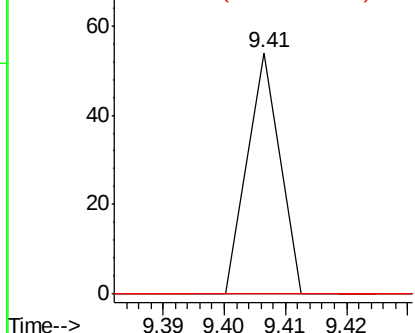
#49
1,4-Dioxane
Concen: 1.011 ug/l
RT: 9.41 min Scan# 1258
Delta R.T. 0.11 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

Instrument :
MSVOA_Y
ClientSampleId :
1

Tot Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 25.6 38.4#
58 0.0 47.8 71.6#

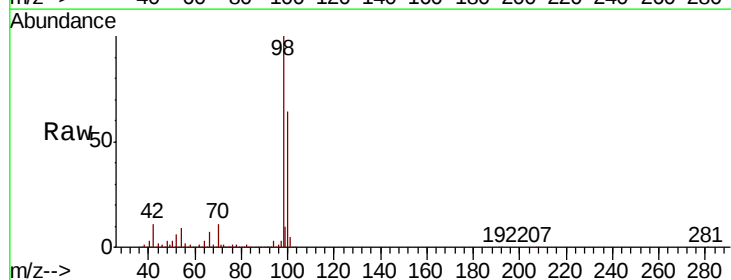


Abundance Ion 88.00 (87.70 to 88.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

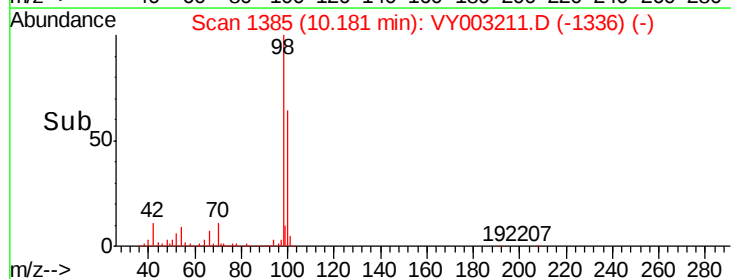
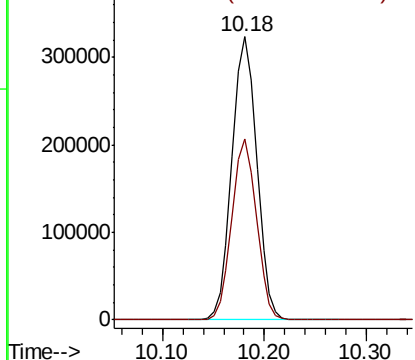


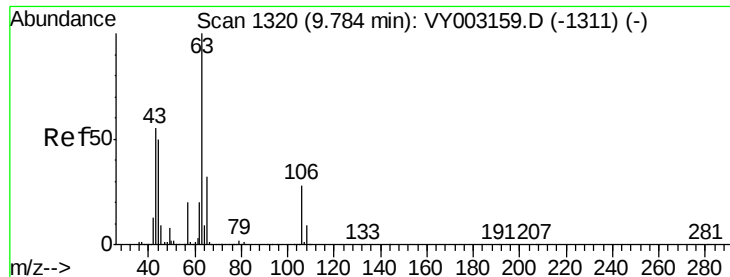
#50
Toluene-d8
Concen: 61.662 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

Tgt Ion: 98 Resp: 545298
Ion Ratio Lower Upper
98 100
100 63.3 50.7 76.1



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

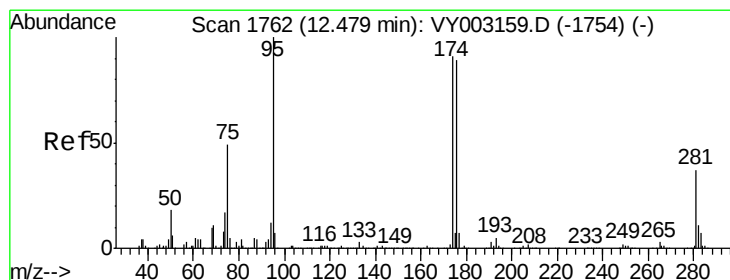
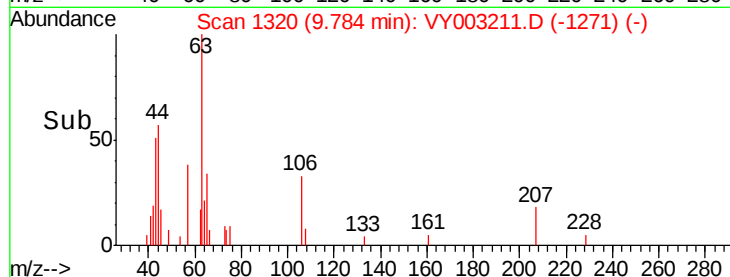
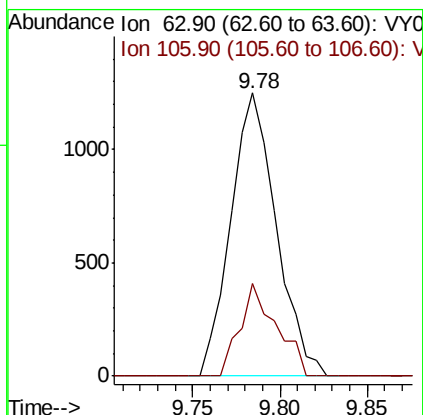
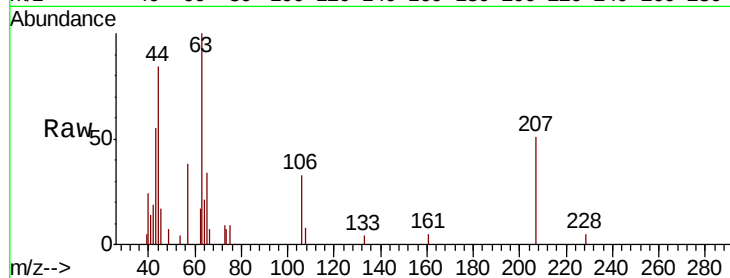




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.478 ug/l
 RT: 9.78 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VY003211.D
 Acq: 16 Jul 2020 15:56

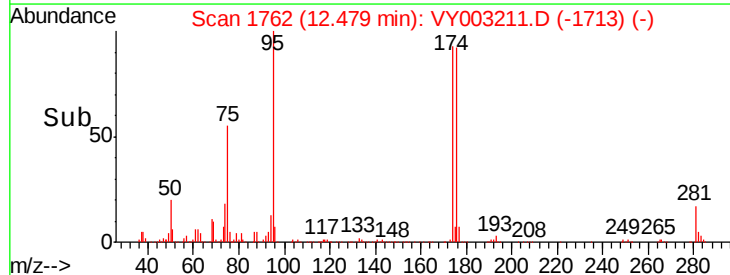
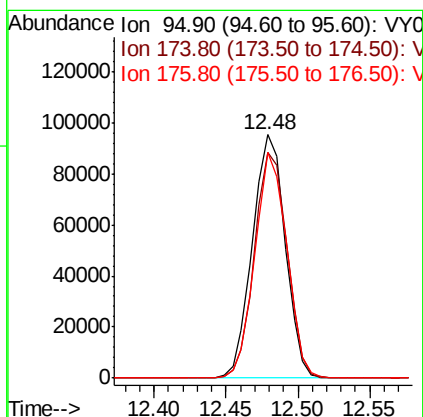
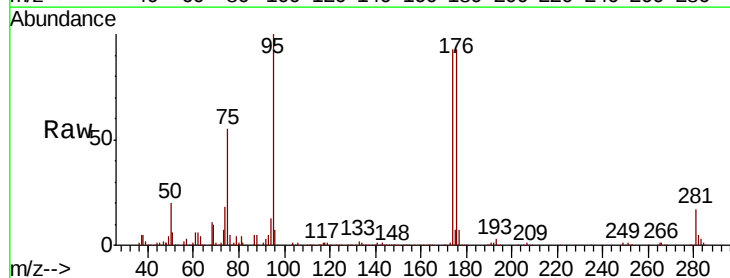
Instrument :
 MSVOA_Y
 ClientSampled :
 1

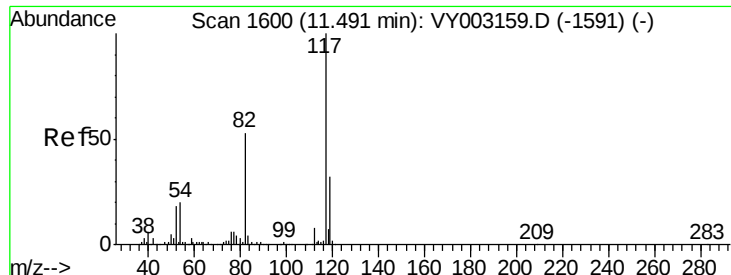
Tot Ion: 63 Resp: 2264
 Ion Ratio Lower Upper
 63 100
 106 26.0 22.9 34.3



#62
 4-Bromofluorobenzene
 Concen: 46.825 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VY003211.D
 Acq: 16 Jul 2020 15:56

Tgt Ion: 95 Resp: 149594
 Ion Ratio Lower Upper
 95 100
 174 92.9 0.0 190.6
 176 90.2 0.0 186.4

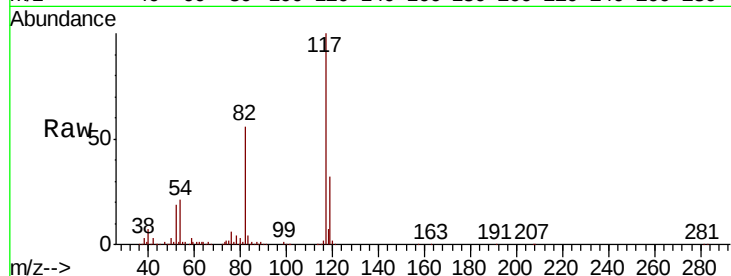




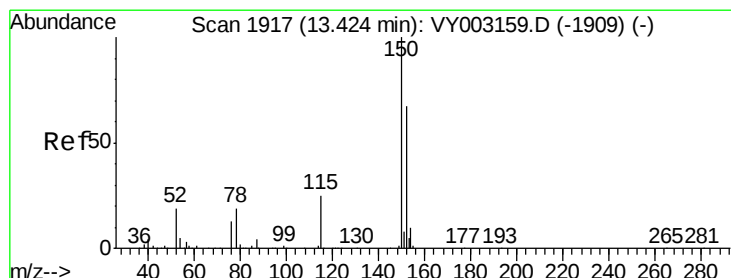
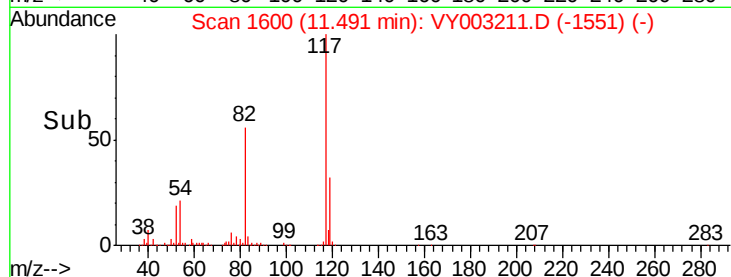
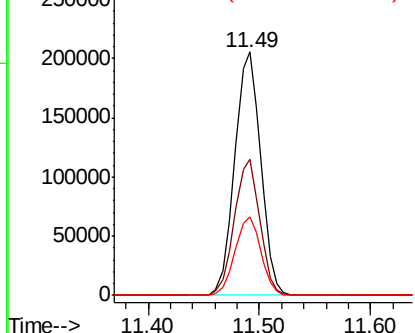
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

Instrument :
MSVOA_Y
ClientSampleId :
1

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.1	42.0	63.0
119	32.0	25.5	38.3

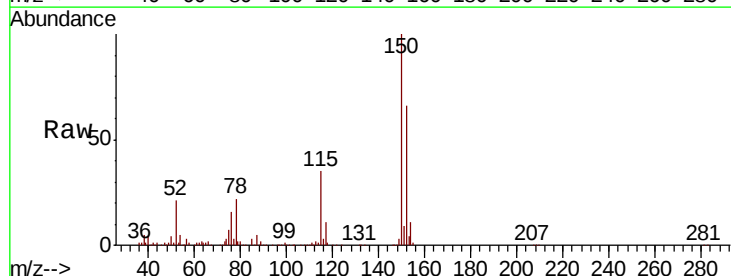


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

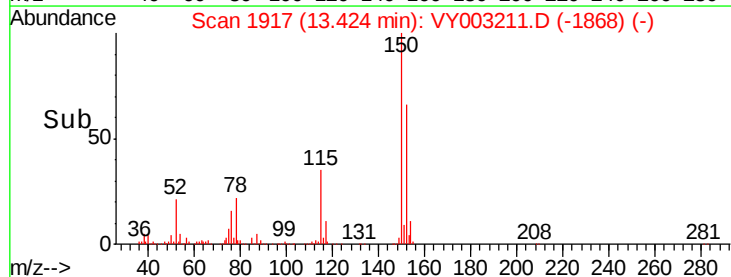
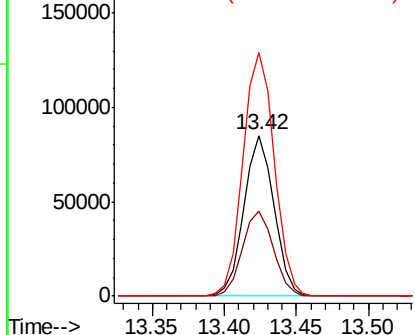


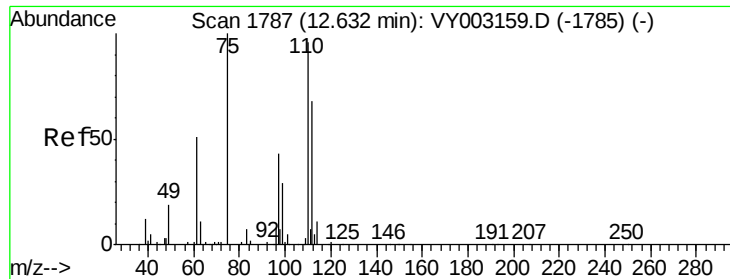
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003211.D
Acq: 16 Jul 2020 15:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	26.9	80.7
150	157.6	0.0	338.0



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





#76

1,2,3-Trichloropropane

Concen: 72.717 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003211.D

Acq: 16 Jul 2020 15:56

Instrument :

MSVOA_Y

ClientSampleId :

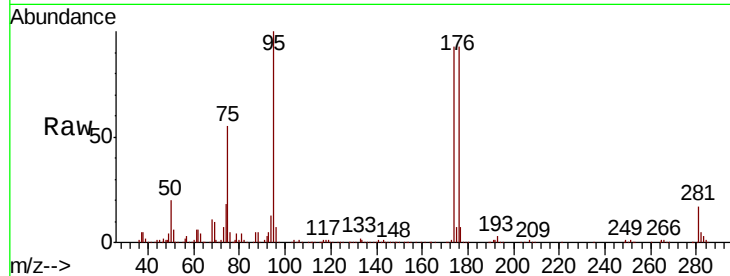
1

Tot Ion: 75 Resp: 78999

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

60000

50000

40000

30000

20000

10000

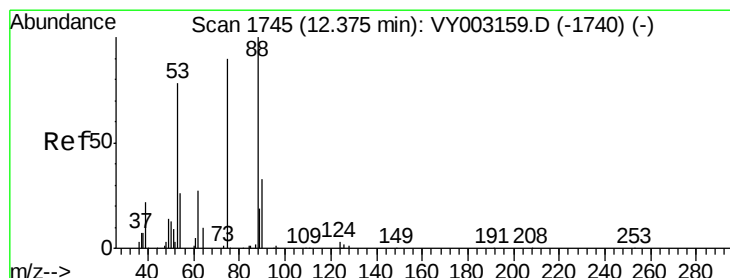
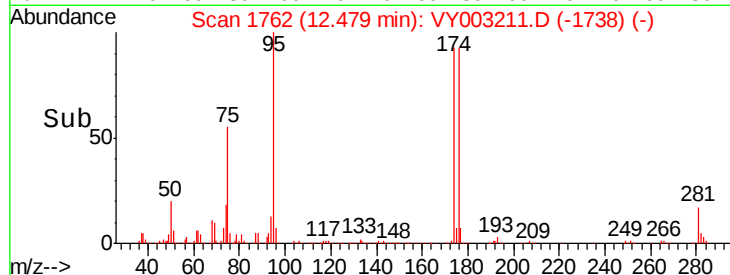
0

12.48

12.40

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 141.521 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003211.D

Acq: 16 Jul 2020 15:56

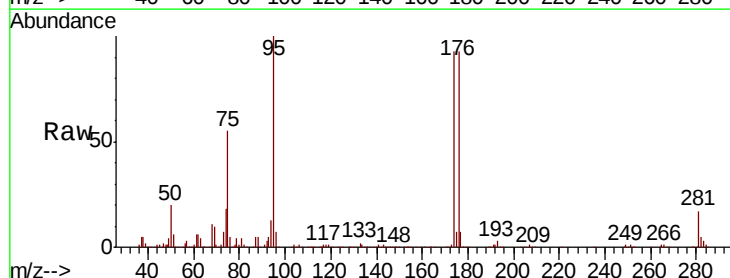
Tgt Ion: 75 Resp: 78999

Ion Ratio Lower Upper

75 100

53 0.1 72.0 108.0#

89 0.2 37.3 55.9#



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

60000

50000

40000

30000

20000

10000

0

12.48

12.40

12.50

Time-->

