

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012020\
 Data File : VY001310.D
 Acq On : 20 Jan 2020 20:42
 Operator : SY/MD
 Sample : L1205-02
 Misc : 8.94G/5ML/MSVOA Y/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 21 07:04:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y011020S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 21 06:54:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	6944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	12898	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	13295	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	6165	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	5027	68.54	ug/l	0.00
Spiked Amount			Recovery	=	137.08%	
35) Dibromofluoromethane	7.75	113	3472	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	
50) Toluene-d8	10.19	98	15021	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.50	95	6136	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	

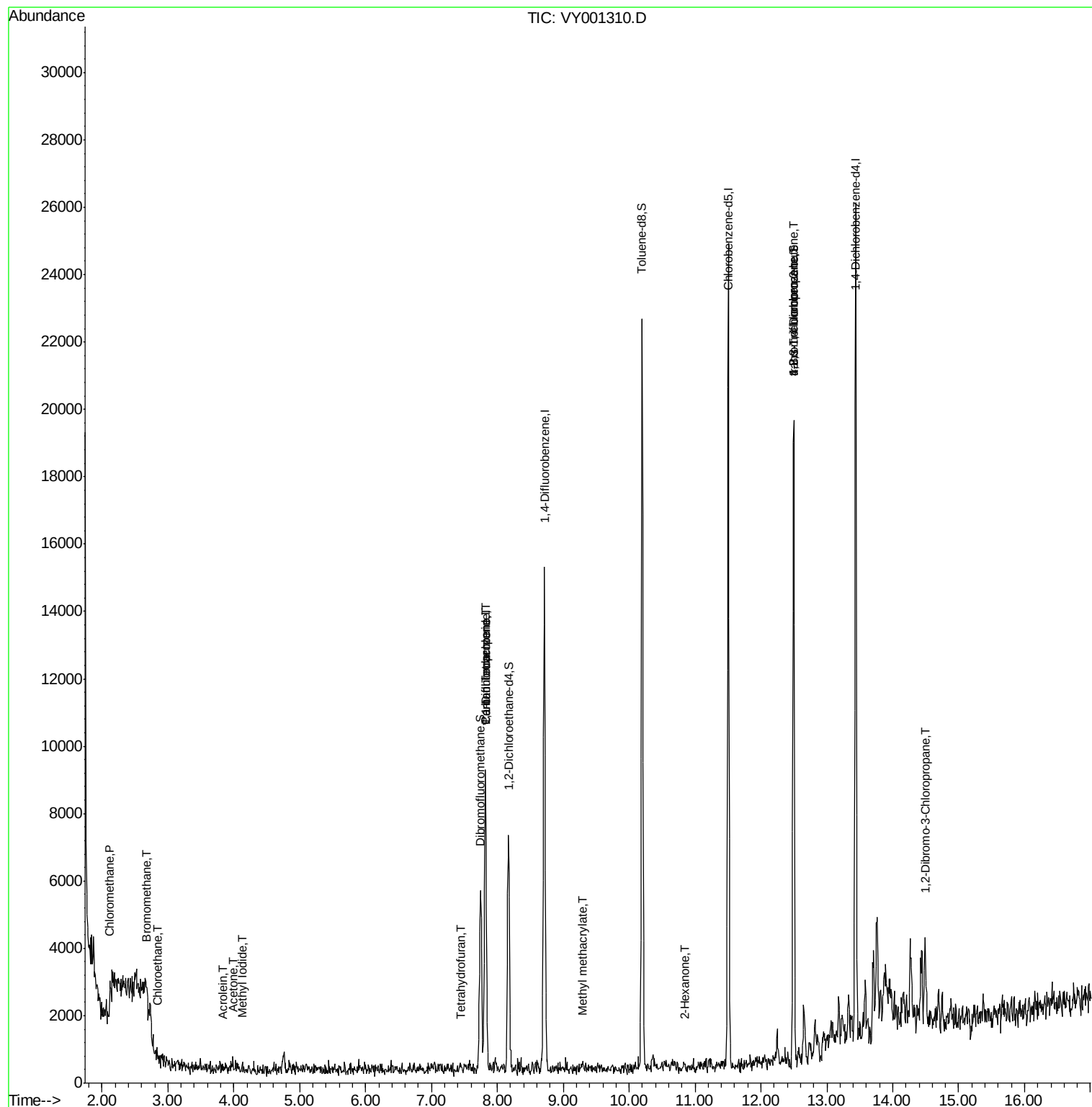
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.13	50	290	3.773	ug/l #	83
5) Bromomethane	2.68	94	203	4.880	ug/l #	62
6) Chloroethane	2.85	64	48	1.073	ug/l #	43
10) Methyl Iodide	4.13	142	118	1.242	ug/l #	44
13) Acrolein	3.83	56	23	3.462	ug/l #	38
16) Acetone	3.99	43	165	9.687	ug/l #	42
20) Methylene Chloride	4.76	84	147	Below Cal	#	27
29) Tetrahydrofuran	7.45	42	41	2.257	ug/l #	32
36) 1,1-Dichloropropene	7.82	75	533	4.534	ug/l #	41
38) Carbon Tetrachloride	7.82	117	672	6.237	ug/l #	11
48) Methyl methacrylate	9.30	41	67	1.097	ug/l #	12
59) 2-Hexanone	10.85	43	50	1.066	ug/l #	23
76) 1,2,3-Trichloropropane	12.49	75	2983	45.199	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	2983	76.648	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.50	75	20	1.137	ug/l #	2

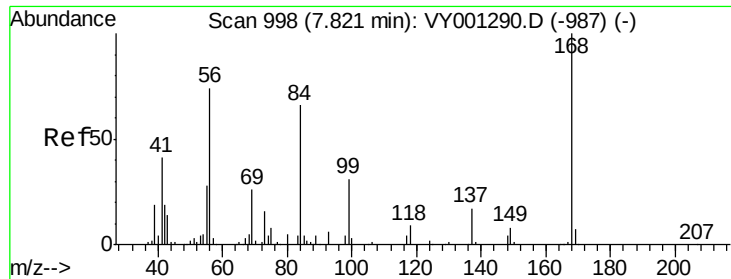
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.00 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

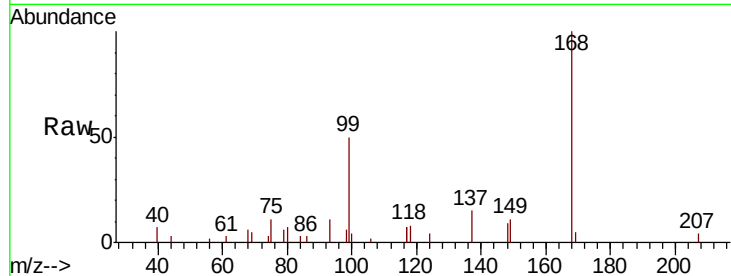
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 6944

Ion Ratio Lower Upper

168 100

99 49.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001290.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001290.D (-987) (-)

7.82

3000

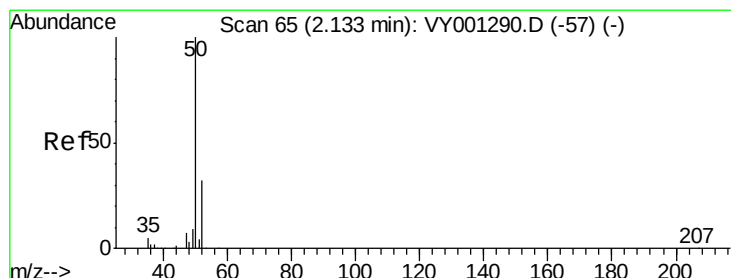
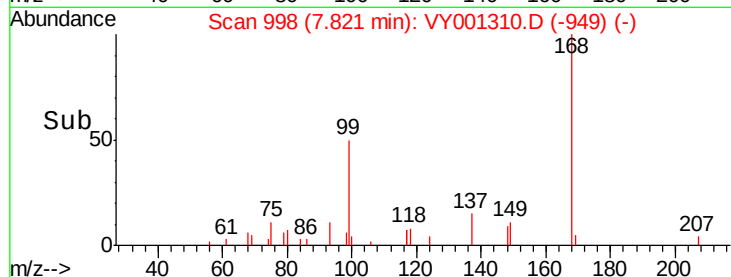
2000

1000

0

7.75 7.80 7.85 7.90

Time-->



#3

Chloromethane

Concen: 3.773 ug/l

RT: 2.13 min Scan# 64

Delta R.T. -0.01 min

Lab File: VY001310.D

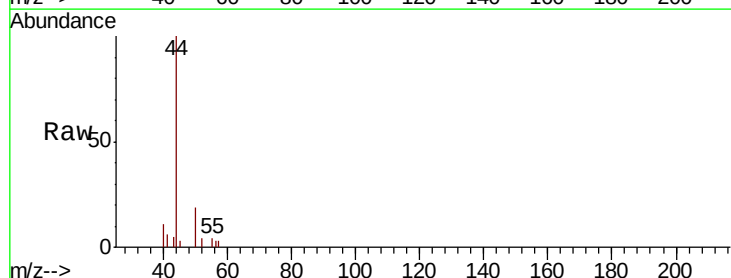
Acq: 20 Jan 2020 20:42

Tgt Ion: 50 Resp: 290

Ion Ratio Lower Upper

50 100

52 22.7 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VY001290.D (-57) (-)

Ion 51.90 (51.60 to 52.60): VY001290.D (-57) (-)

2.13

400

300

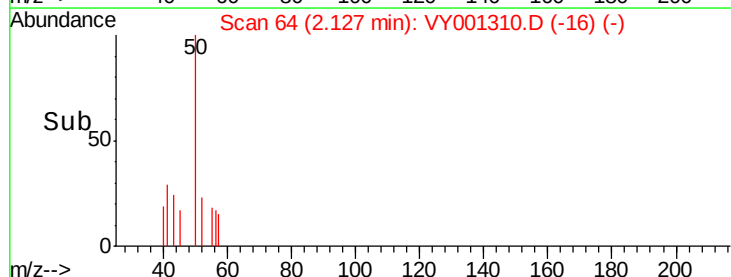
200

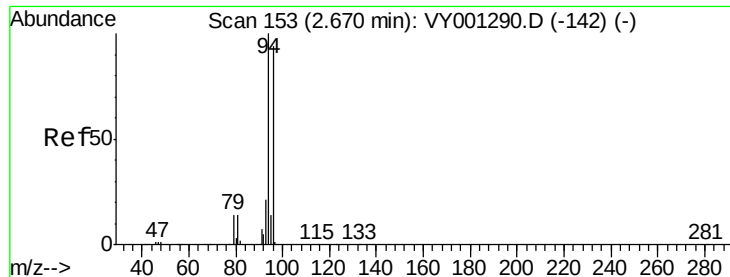
100

0

2.08 2.10 2.12 2.14 2.16

Time-->





#5

Bromomethane

Concen: 4.880 ug/l

RT: 2.68 min Scan# 154

Delta R.T. 0.01 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

Instrument :

MSVOA_Y

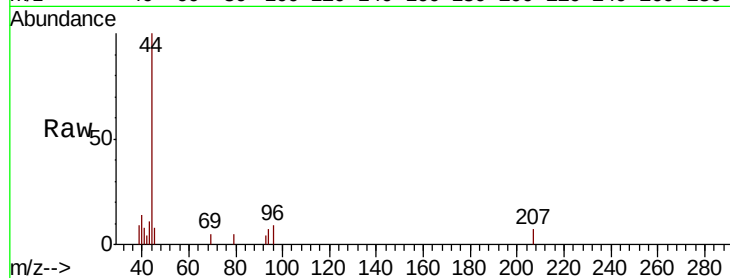
ClientSampleId :

Tot Ion: 94 Resp: 203

Ion Ratio Lower Upper

94 100

96 133.7 77.3 115.9#



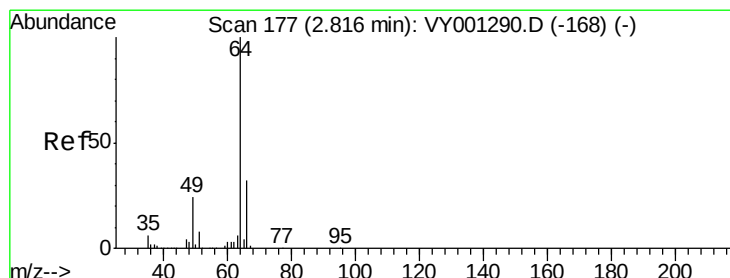
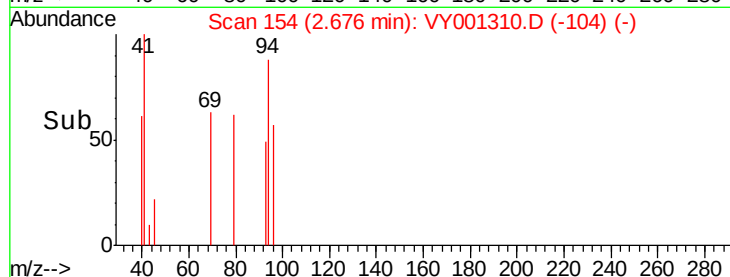
Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

2.68

2.70

Time-->



#6

Chloroethane

Concen: 1.073 ug/l

RT: 2.85 min Scan# 182

Delta R.T. 0.03 min

Lab File: VY001310.D

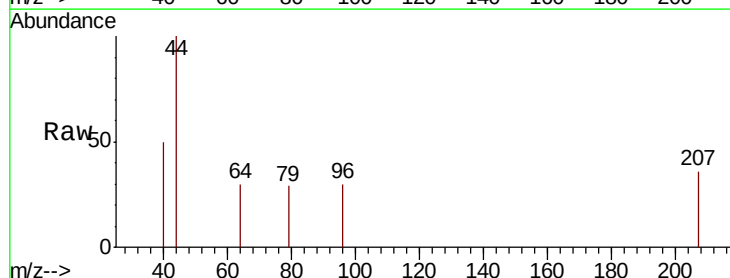
Acq: 20 Jan 2020 20:42

Tgt Ion: 64 Resp: 48

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



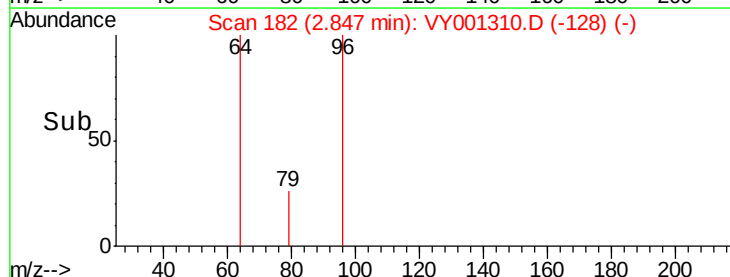
Abundance Ion 63.90 (63.60 to 64.60): VY0

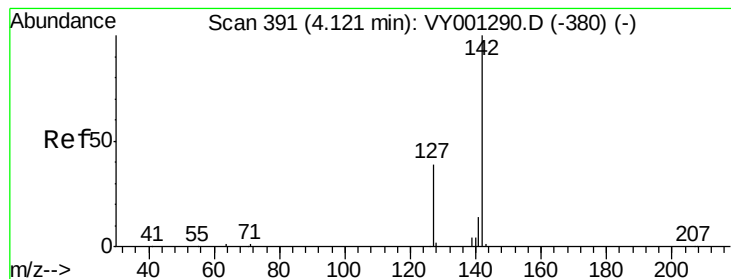
Ion 65.90 (65.60 to 66.60): VY0

2.85

2.86

Time-->





#10

Methvl Iodide

Concen: 1.242 ug/l

RT: 4.13 min Scan# 393

Delta R.T. 0.01 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

Instrument :

MSVOA_Y

ClientSampleId :

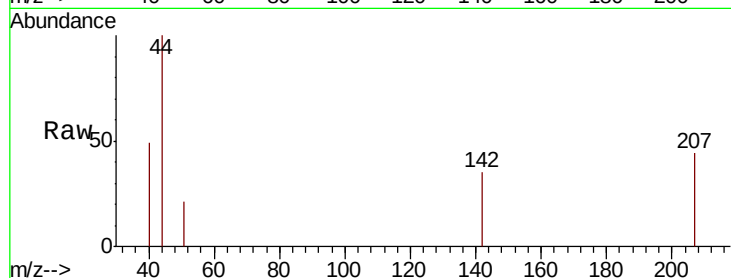
Tot Ion:142 Resp: 118

Ion Ratio Lower Upper

142 100

127 0.0 30.8 46.2#

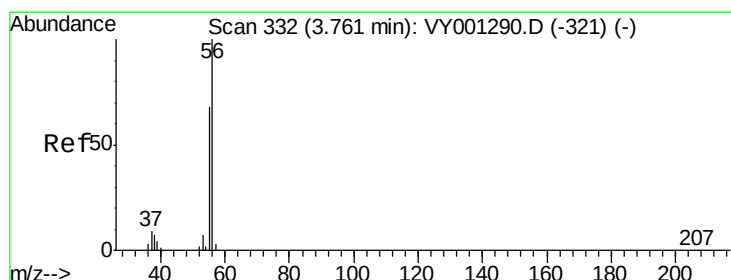
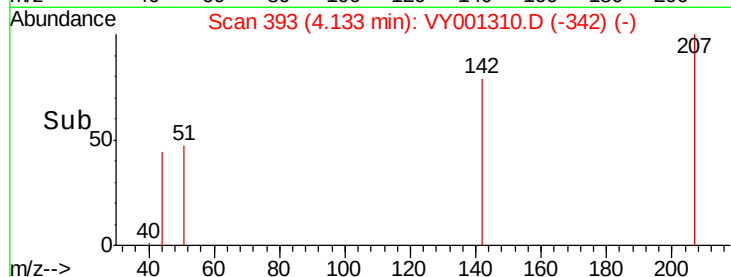
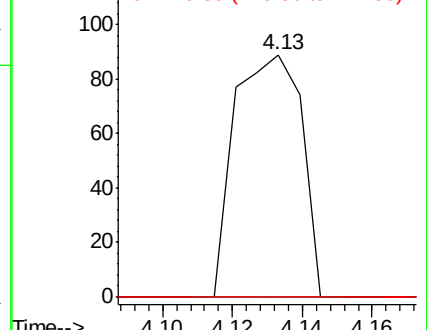
141 0.0 11.0 16.4#



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



#13

Acrolein

Concen: 3.462 ug/l

RT: 3.83 min Scan# 343

Delta R.T. 0.07 min

Lab File: VY001310.D

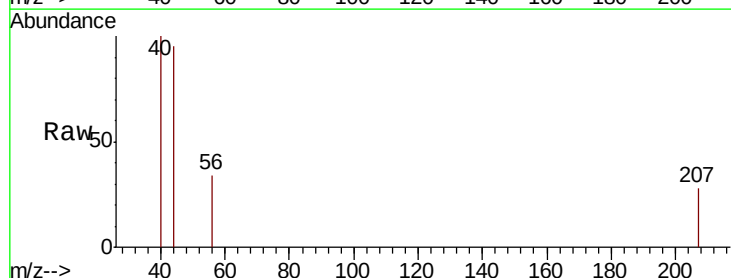
Acq: 20 Jan 2020 20:42

Tgt Ion: 56 Resp: 23

Ion Ratio Lower Upper

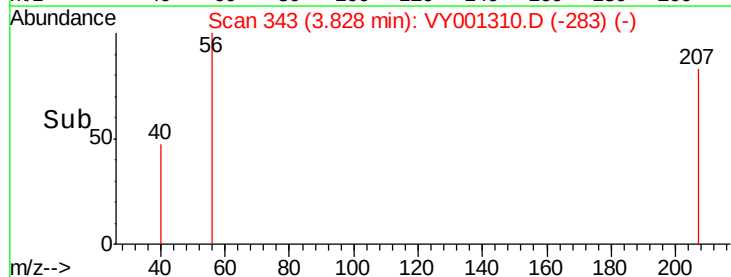
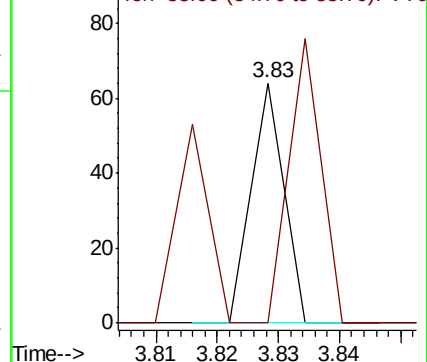
56 100

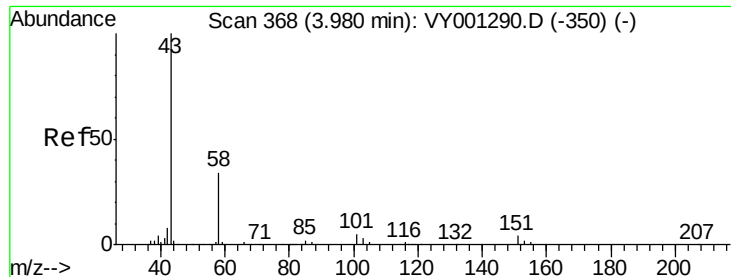
55 121.7 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0





#16

Acetone

Concen: 9.687 ug/l

RT: 3.99 min Scan# 369

Delta R.T. 0.01 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

Instrument :

MSVOA_Y

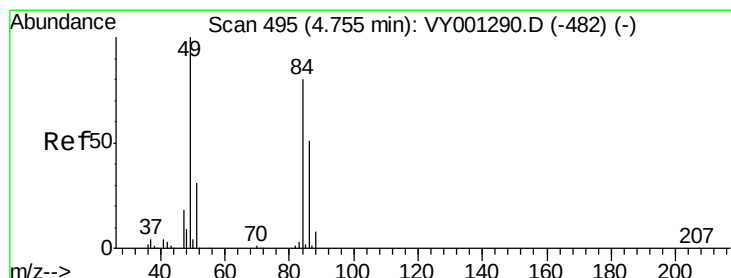
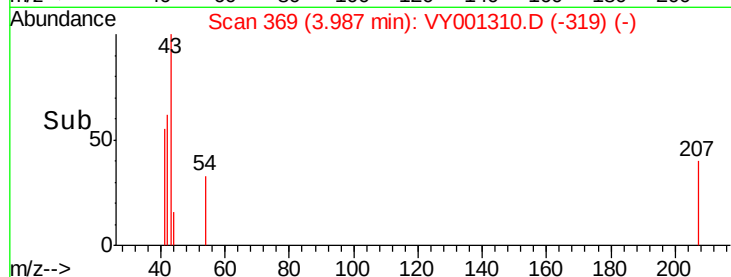
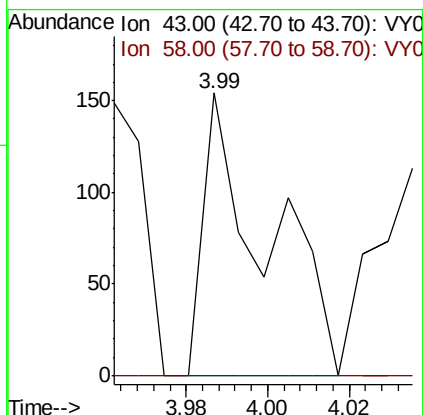
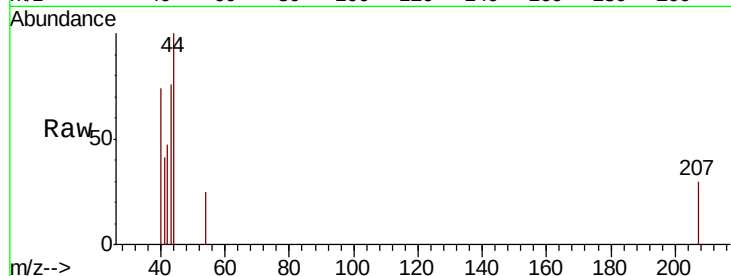
ClientSampleId :

Tot Ion: 43 Resp: 165

Ion Ratio Lower Upper

43 100

58 0.0 25.8 38.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.76 min Scan# 496

Delta R.T. 0.01 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

Tgt Ion: 84 Resp: 147

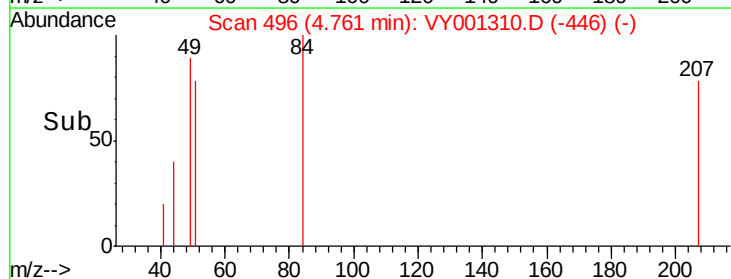
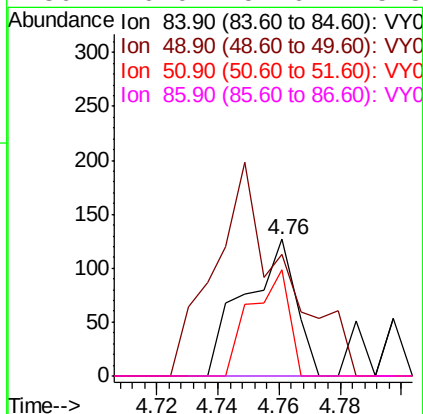
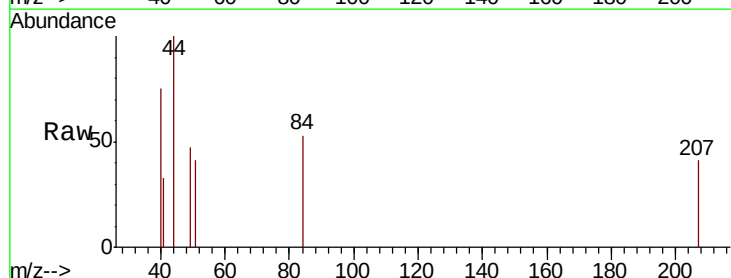
Ion Ratio Lower Upper

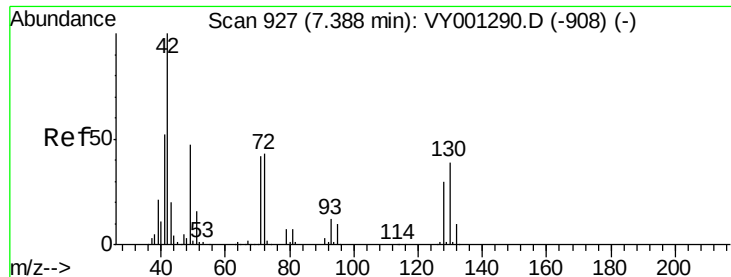
84 100

49 40.9 93.8 140.6#

51 78.0 29.9 44.9#

86 0.0 52.6 78.8#

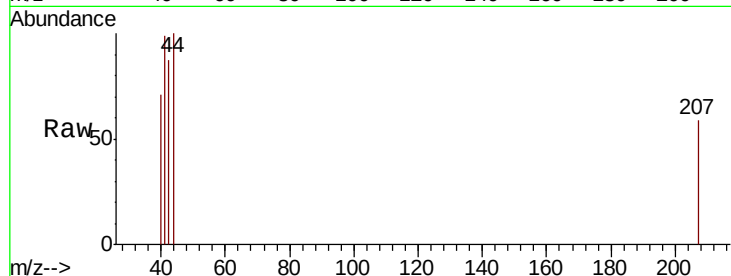




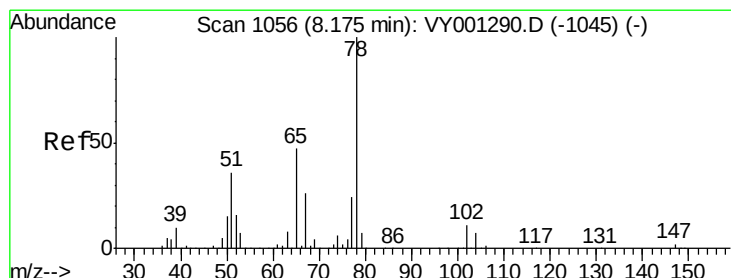
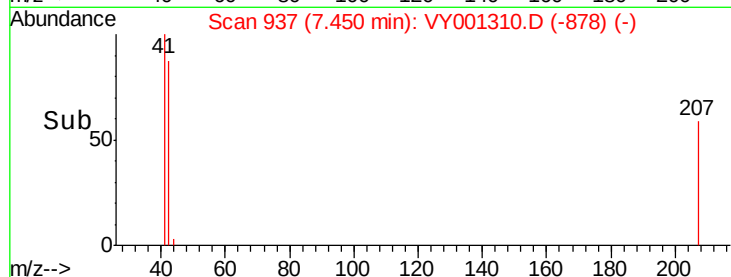
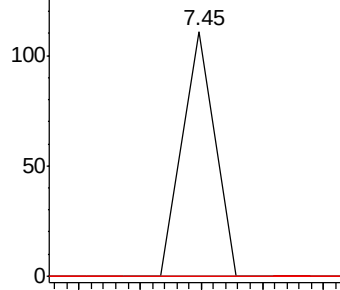
#29
Tetrahydrofuran
Concen: 2.257 ug/l
RT: 7.45 min Scan# 937
Delta R.T. 0.06 min
Lab File: VY001310.D
Acq: 20 Jan 2020 20:42

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 42 Resp: 41
Ion Ratio Lower Upper
42 100
72 0.0 36.9 55.3#
71 0.0 34.0 51.0#

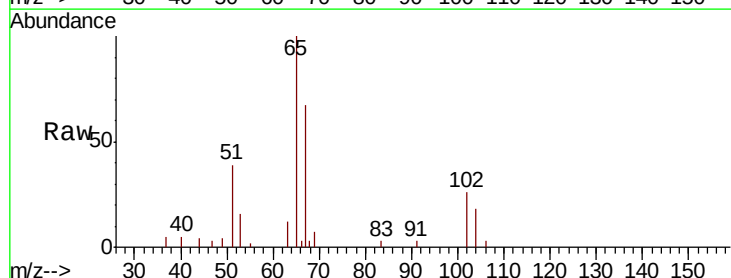


Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0

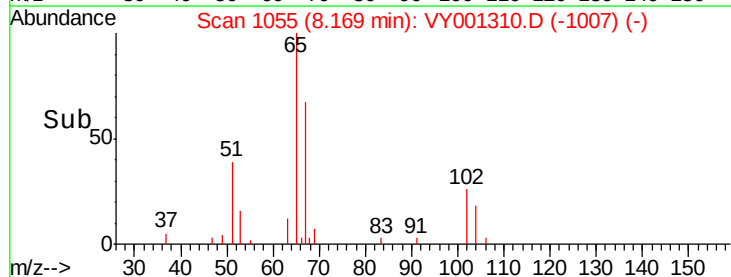
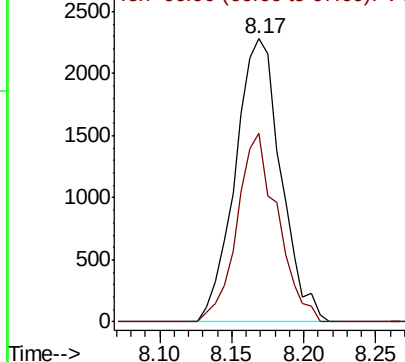


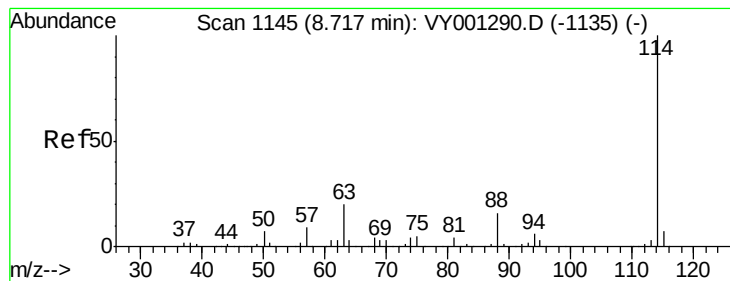
#33
1,2-Dichloroethane-d4
Concen: 68.543 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.01 min
Lab File: VY001310.D
Acq: 20 Jan 2020 20:42

Tgt Ion: 65 Resp: 5027
Ion Ratio Lower Upper
65 100
67 59.2 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: 8.71 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

Instrument :

MSVOA_Y

ClientSampleId :

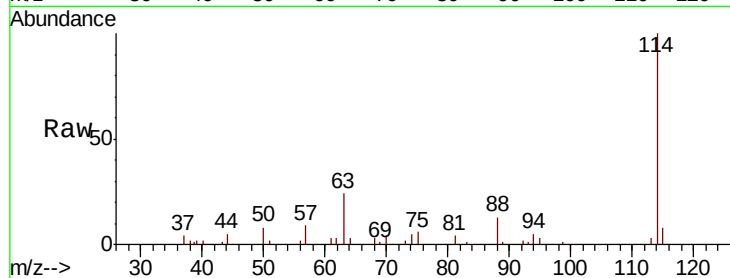
Tot Ion:114 Resp: 12898

Ion Ratio Lower Upper

114 100

63 23.9 0.0 40.8

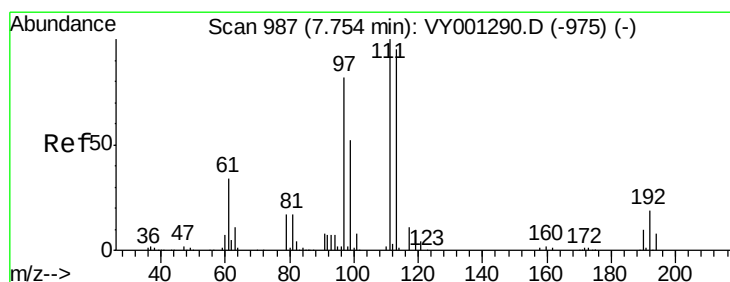
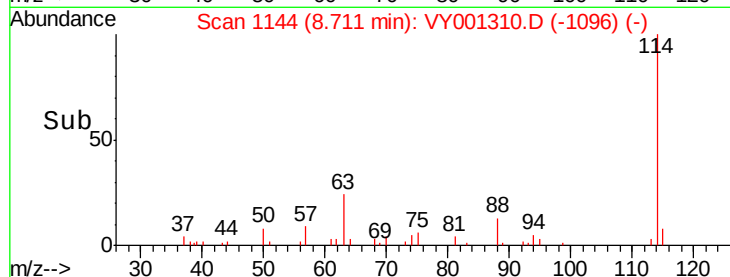
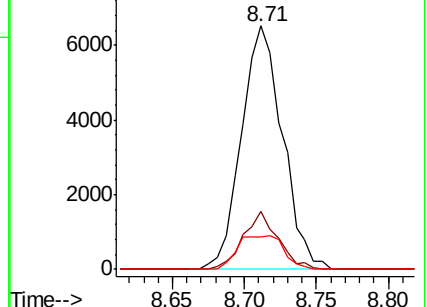
88 13.2 0.0 32.4



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: 45.976 ug/l

RT: 7.75 min Scan# 986

Delta R.T. -0.01 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

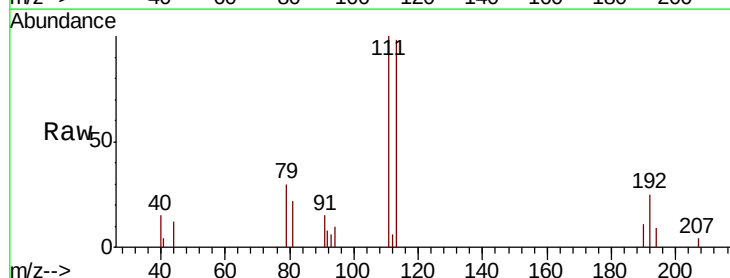
Tgt Ion:113 Resp: 3472

Ion Ratio Lower Upper

113 100

111 110.0 82.9 124.3

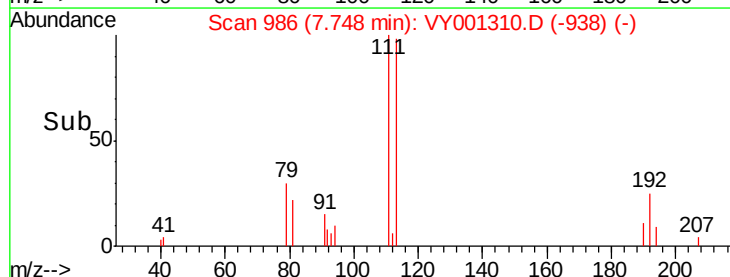
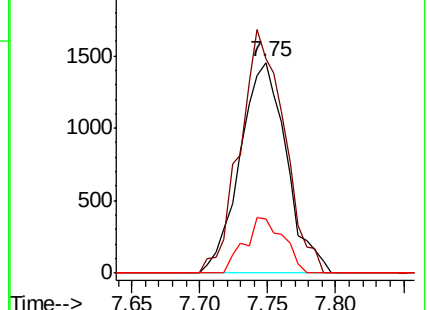
192 22.1 15.4 23.2

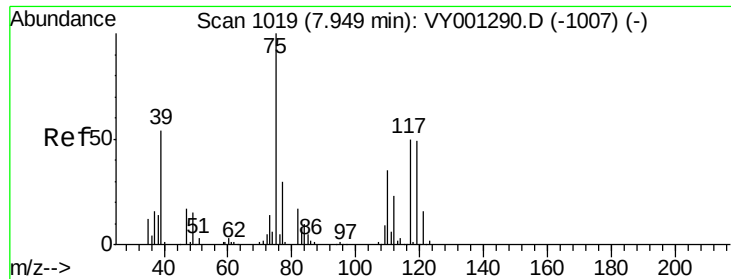


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

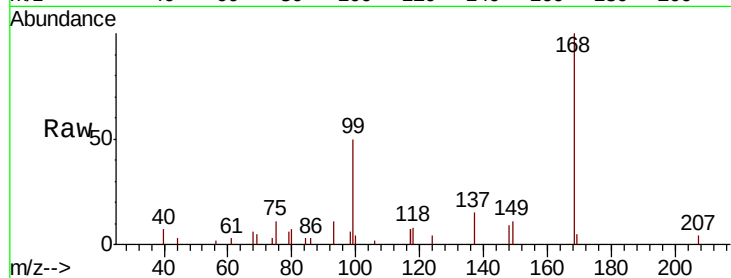




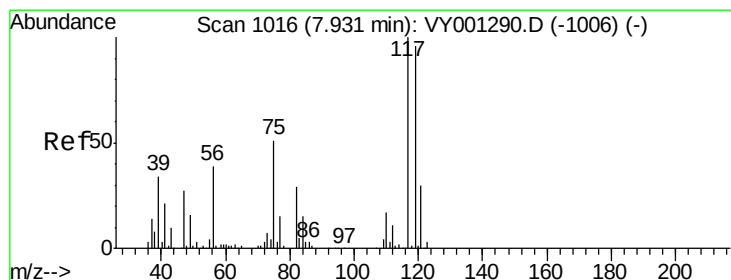
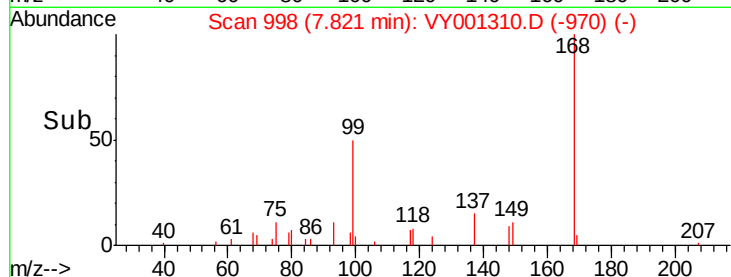
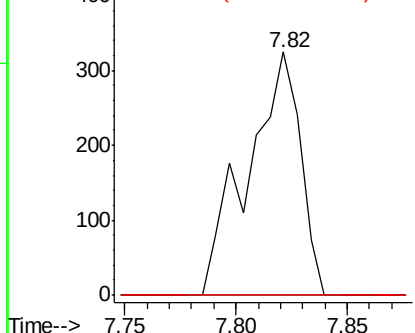
#36
 1,1-Dichloropropene
 Concen: 4.534 ug/l
 RT: 7.82 min Scan# 998
 Delta R.T. -0.13 min
 Lab File: VY001310.D
 Acq: 20 Jan 2020 20:42

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.3	54.8#
77	0.0	25.1	37.7#

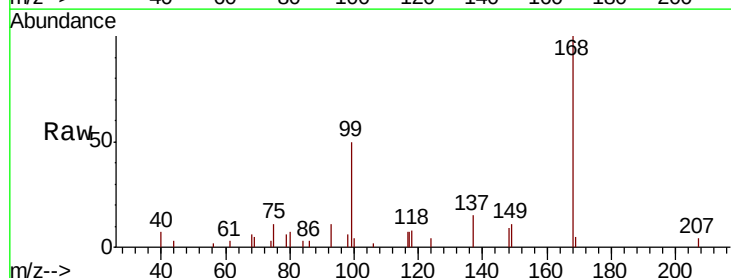


Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): VY0
 Ion 76.90 (76.60 to 77.60): VY0

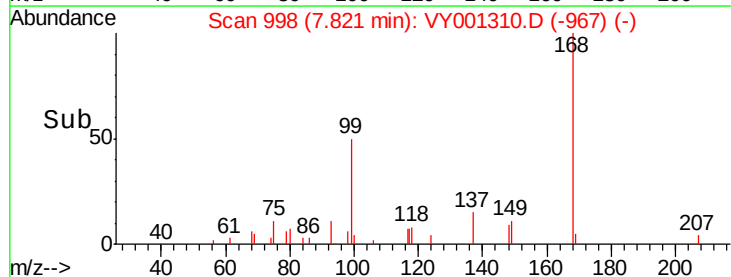
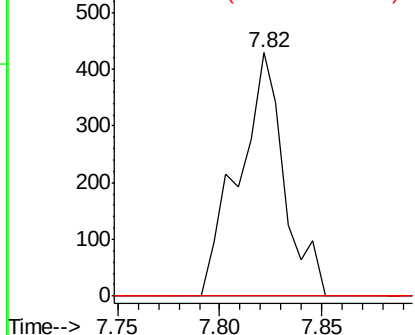


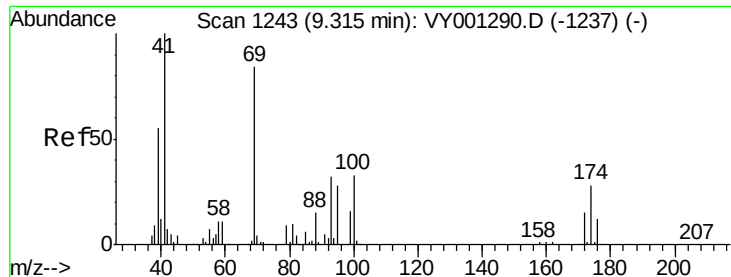
#38
 Carbon Tetrachloride
 Concen: 6.237 ug/l
 RT: 7.82 min Scan# 998
 Delta R.T. -0.11 min
 Lab File: VY001310.D
 Acq: 20 Jan 2020 20:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	78.3	117.5#
121	0.0	23.5	35.3#



Abundance Ion 116.80 (116.50 to 117.50): VY0
 Ion 118.80 (118.50 to 119.50): VY0
 Ion 120.80 (120.50 to 121.50): VY0

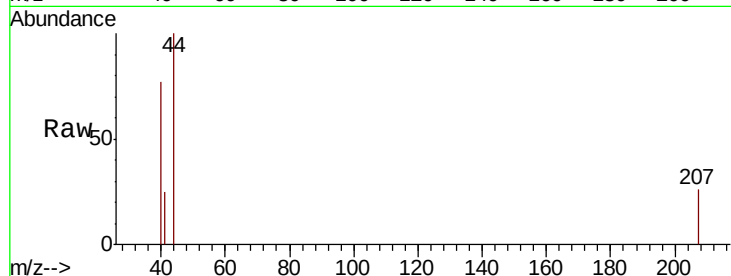




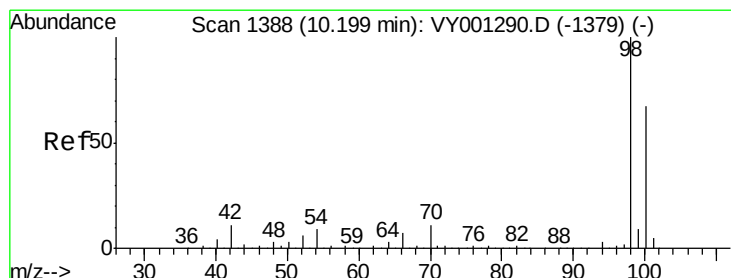
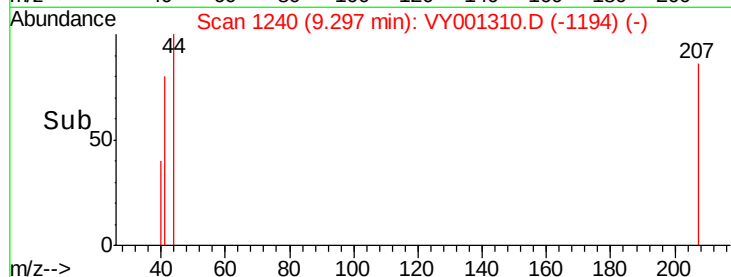
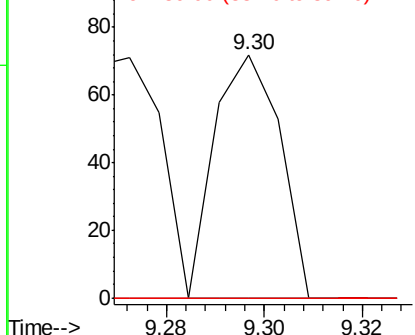
#48
Methvl methacrylate
Concen: 1.097 ug/l
RT: 9.30 min Scan# 1240
Delta R.T. -0.02 min
Lab File: VY001310.D
Acq: 20 Jan 2020 20:42

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 41 Resp: 67
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.8#
39 0.0 45.2 67.8#

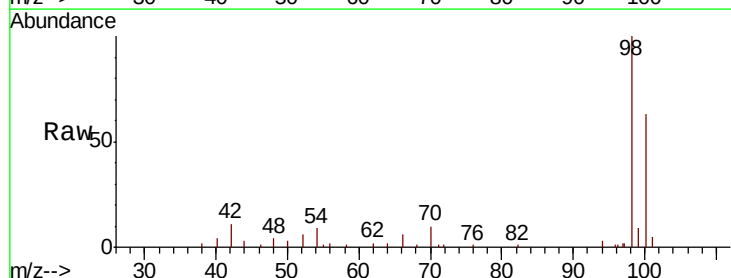


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 39.00 (38.70 to 39.70): VY0

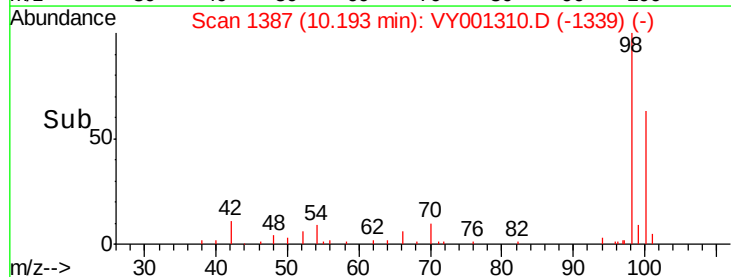
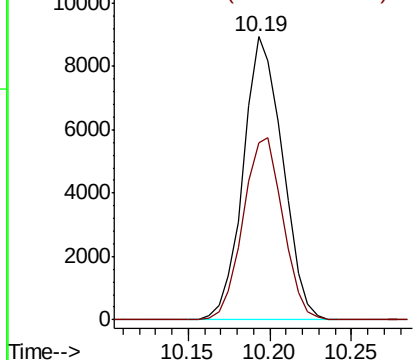


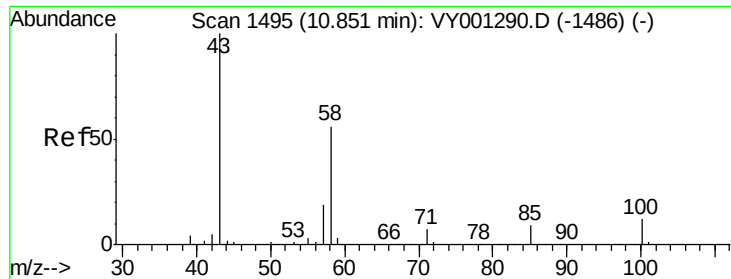
#50
Toluene-d8
Concen: 51.622 ug/l
RT: 10.19 min Scan# 1387
Delta R.T. -0.01 min
Lab File: VY001310.D
Acq: 20 Jan 2020 20:42

Tgt Ion: 98 Resp: 15021
Ion Ratio Lower Upper
98 100
100 65.1 53.1 79.7



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





#59

2-Hexanone

Concen: 1.066 ug/l

RT: 10.85 min Scan# 1494

Delta R.T. -0.01 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

Instrument :

MSVOA_Y

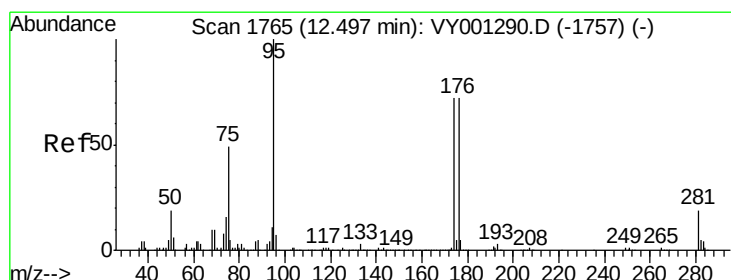
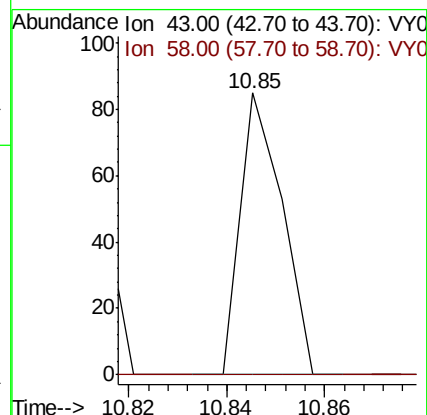
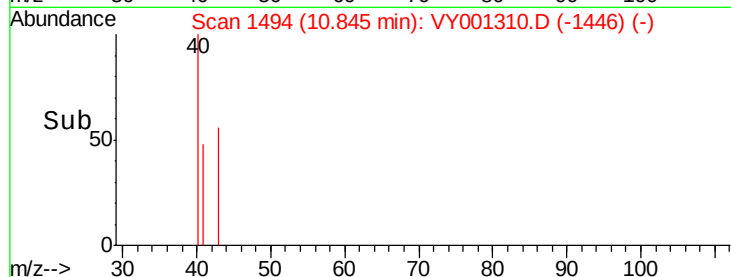
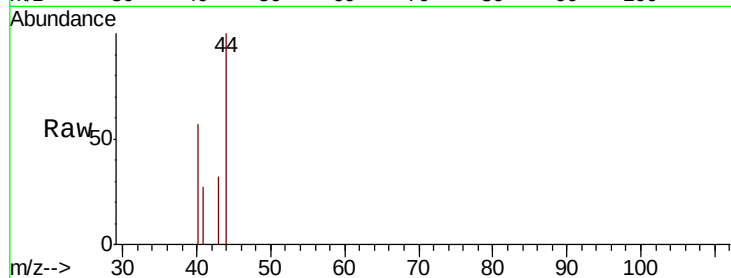
ClientSampleId :

Tot Ion: 43 Resp: 50

Ion Ratio Lower Upper

43 100

58 0.0 28.4 85.2#



#62

4-Bromofluorobenzene

Concen: 51.580 ug/l

RT: 12.50 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

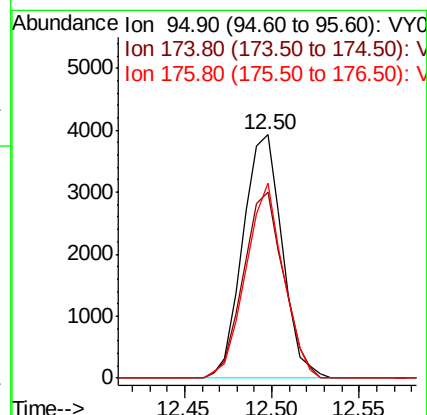
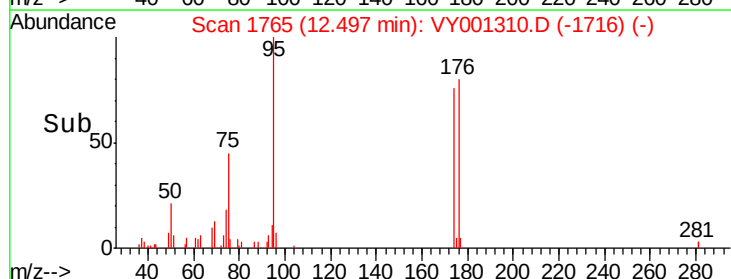
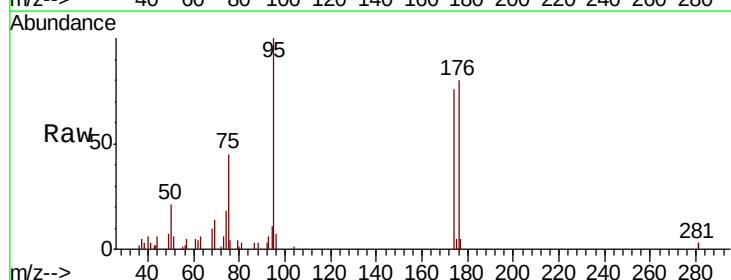
Tgt Ion: 95 Resp: 6136

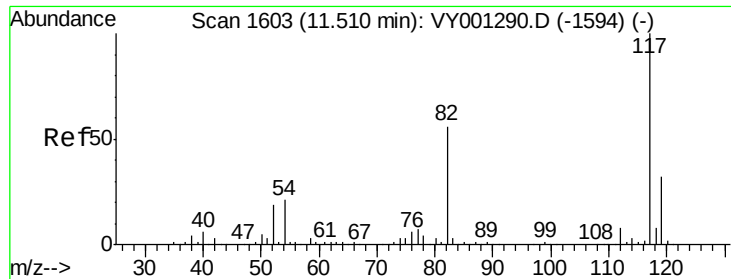
Ion Ratio Lower Upper

95 100

174 78.3 0.0 143.2

176 76.8 0.0 136.0

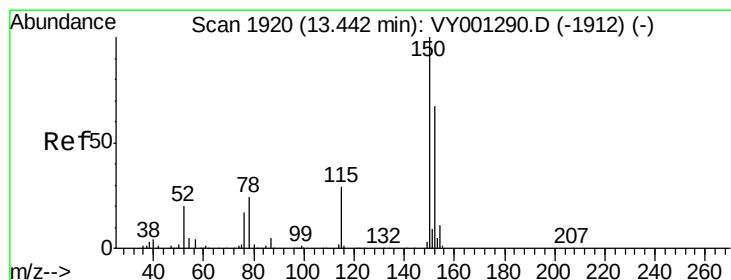
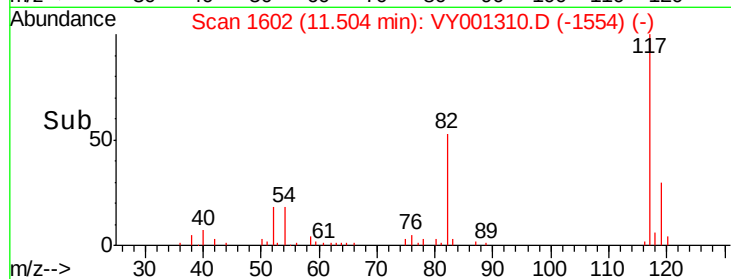
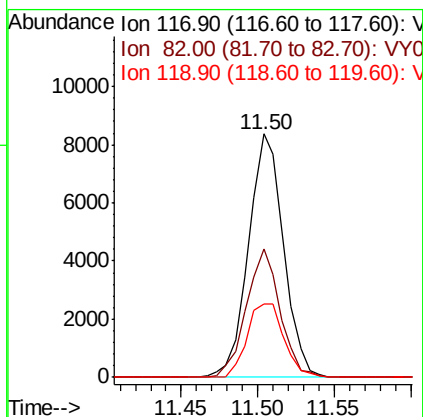
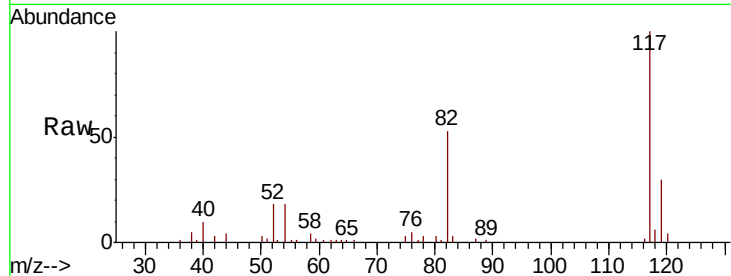




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. -0.01 min
Lab File: VY001310.D
Acq: 20 Jan 2020 20:42

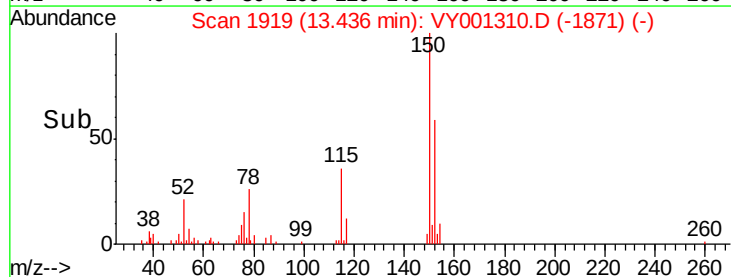
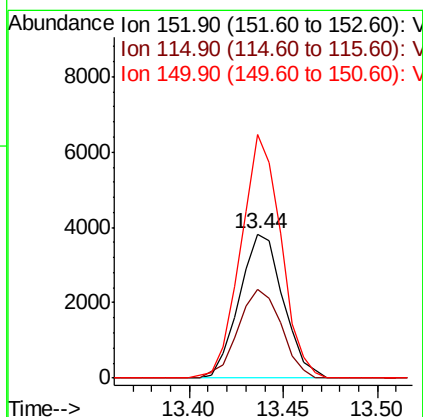
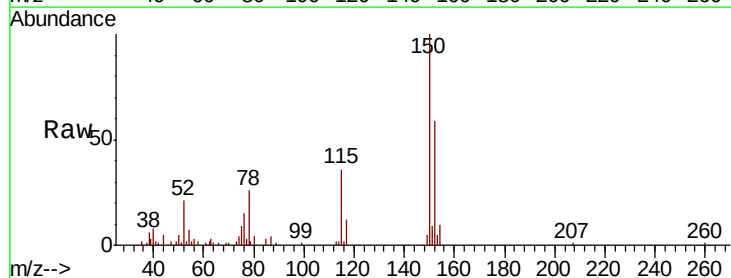
Instrument :
MSVOA_Y
ClientSampled :

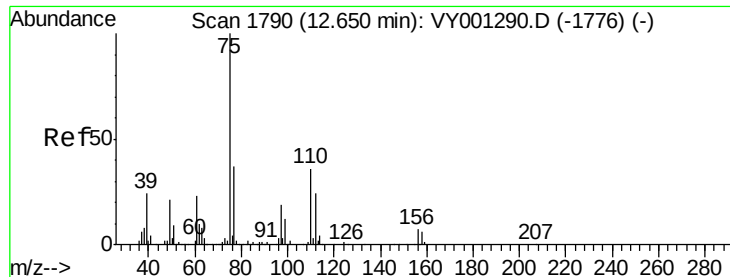
Tot Ion:117 Resp: 13295
Ion Ratio Lower Upper
117 100
82 52.9 44.9 67.3
119 30.3 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. -0.01 min
Lab File: VY001310.D
Acq: 20 Jan 2020 20:42

Tgt Ion:152 Resp: 6165
Ion Ratio Lower Upper
152 100
115 60.9 30.9 92.5
150 154.7 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 45.199 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.16 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

Instrument :

MSVOA_Y

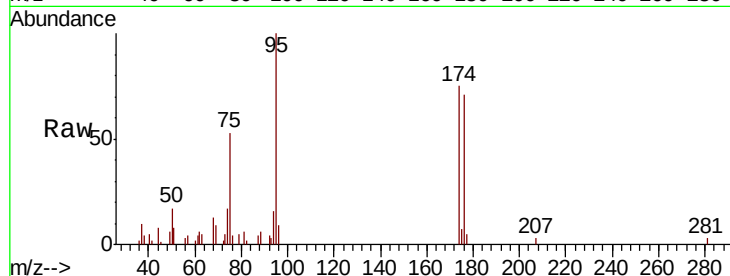
ClientSampleId :

Tot Ion: 75 Resp: 2983

Ion Ratio Lower Upper

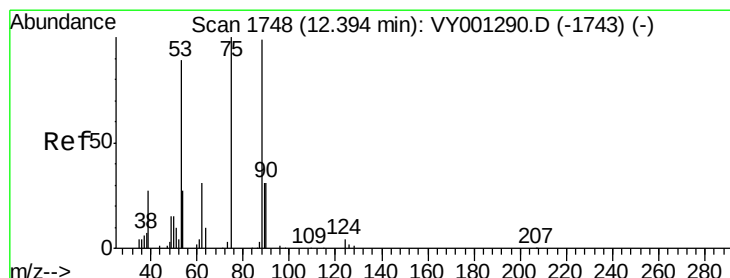
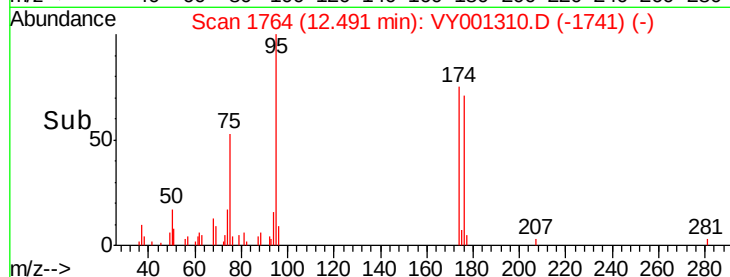
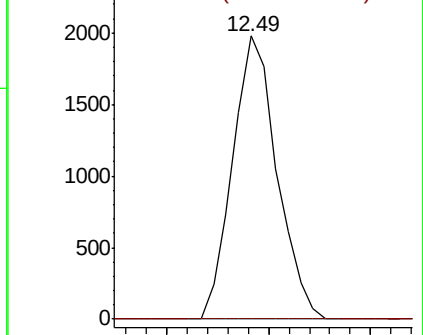
75 100

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: 76.648 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

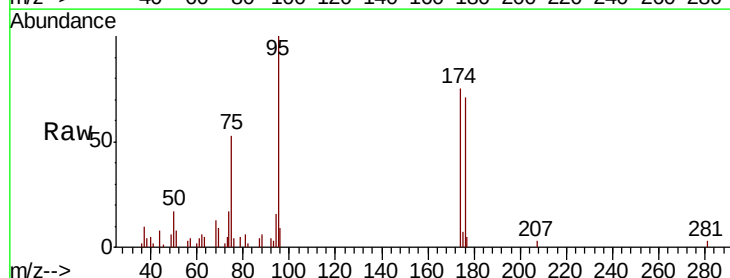
Tgt Ion: 75 Resp: 2983

Ion Ratio Lower Upper

75 100

53 0.0 69.4 104.2#

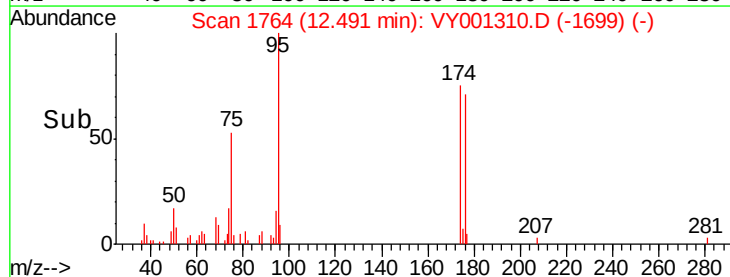
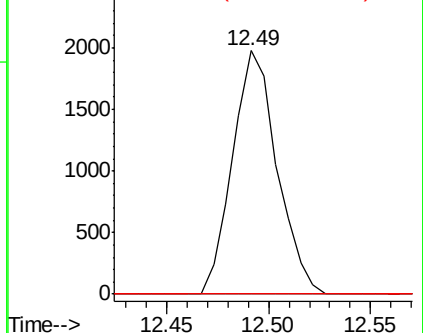
89 0.0 0.0 0.0

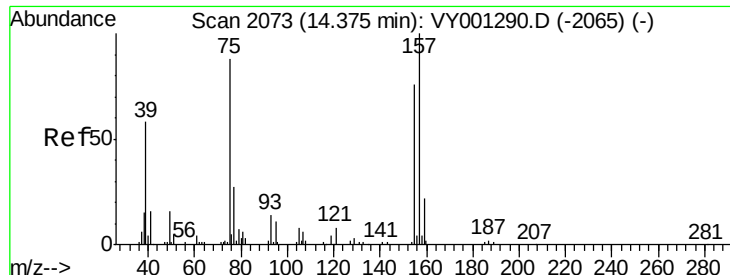


Abundance Ion 74.90 (74.60 to 75.60): VY0

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: 1.137 ug/l

RT: 14.50 min Scan# 2093

Delta R.T. 0.12 min

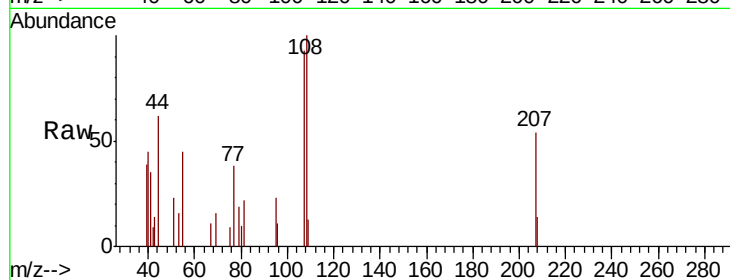
Lab File: VY001310.D

Acq: 20 Jan 2020 20:42

Instrument :

MSVOA_Y

ClientSampleId :



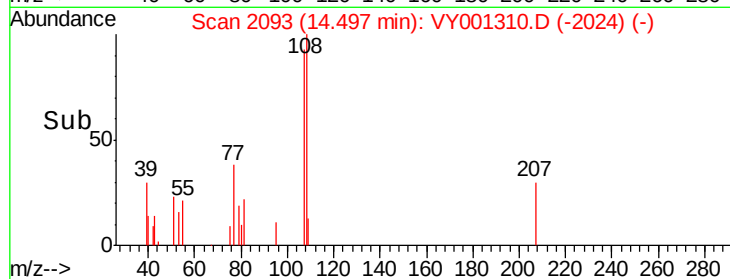
Tot Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

155 0.0 41.2 123.6#

157 0.0 52.8 158.4#



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

