

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY040220\
 Data File : VY002201.D
 Acq On : 02 Apr 2020 18:35
 Operator : SY/MD
 Sample : L2147-02
 Misc : 4.50G/5ML/MSVOA Y/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Apr 03 03:17:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y032620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 07:11:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.81	168	125775	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	247116	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	228744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	94642	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	82295	59.19	ug/l	0.00
Spiked Amount			Recovery	=	118.38%	
35) Dibromofluoromethane	7.74	113	72908	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
50) Toluene-d8	10.19	98	300427	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
62) 4-Bromofluorobenzene	12.49	95	103063	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	

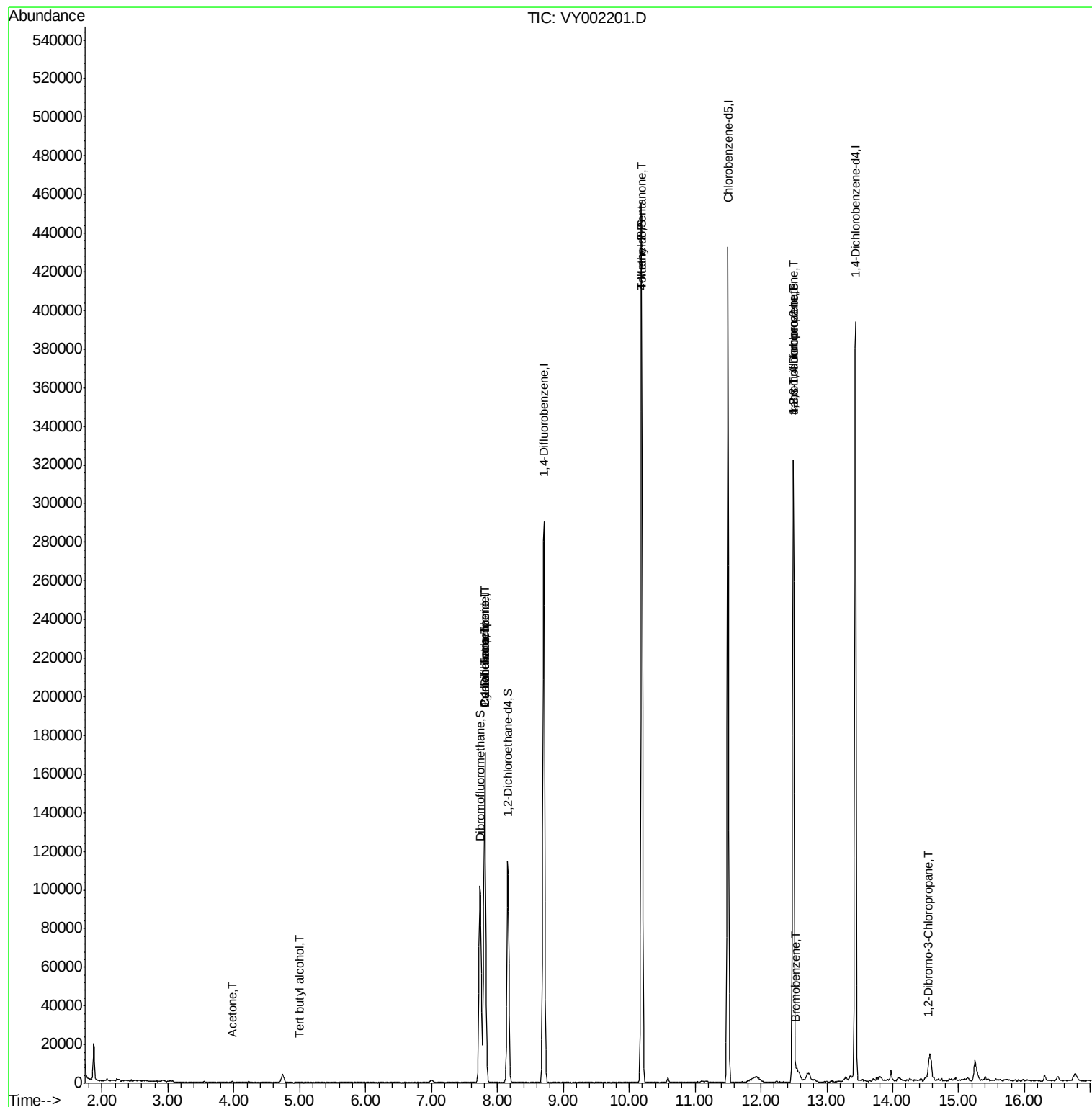
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.99	59	295	1.800	ug/l #	74
16) Acetone	3.98	43	849	2.173	ug/l #	66
20) Methylene Chloride	4.74	84	2800	Below Cal		92
31) Cyclohexane	7.82	56	3205	1.106	ug/l #	1
36) 1,1-Dichloropropene	7.81	75	11244	4.811	ug/l #	50
38) Carbon Tetrachloride	7.81	117	12966	6.538	ug/l #	19
51) 4-Methyl-2-Pentanone	10.19	43	1412	1.046	ug/l #	1
76) 1,2,3-Trichloropropane	12.49	75	52756	49.833	ug/l #	100
77) Bromobenzene	12.53	156	11078	7.392	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.49	75	52756	96.544	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.54	75	538	2.223	ug/l #	2

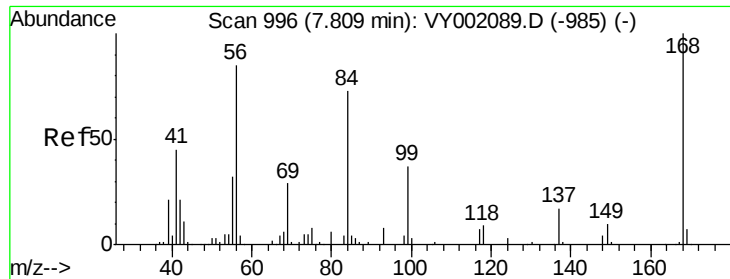
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.00 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

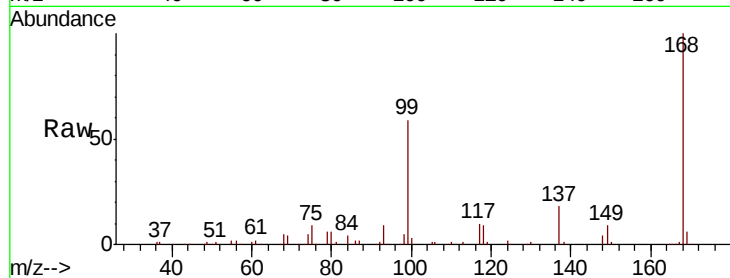
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 125775

Ion Ratio Lower Upper

168 100

99 59.0 47.6 71.4



Abundance Ion 167.90 (167.60 to 168.60): VY002089.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002089.D (-985) (-)

7.81

60000

50000

40000

30000

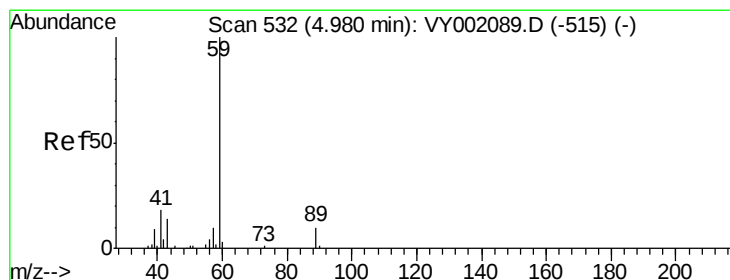
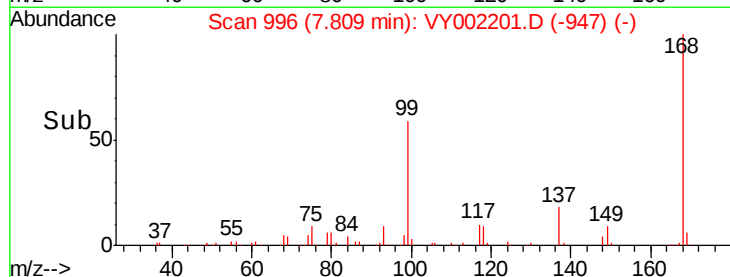
20000

10000

0

Time-->

7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 1.800 ug/l

RT: 4.99 min Scan# 534

Delta R.T. 0.01 min

Lab File: VY002201.D

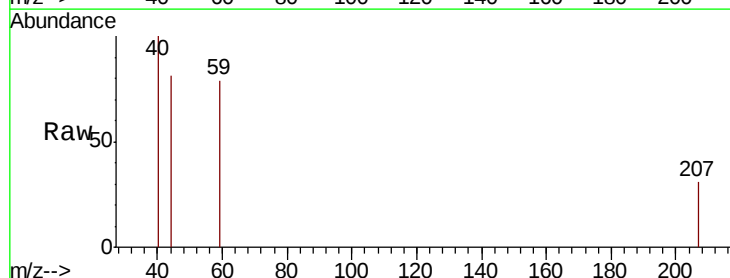
Acq: 02 Apr 2020 18:35

Tgt Ion: 59 Resp: 295

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VY002089.D (-515) (-)

Ion 57.00 (56.70 to 57.70): VY002089.D (-515) (-)

4.99

150

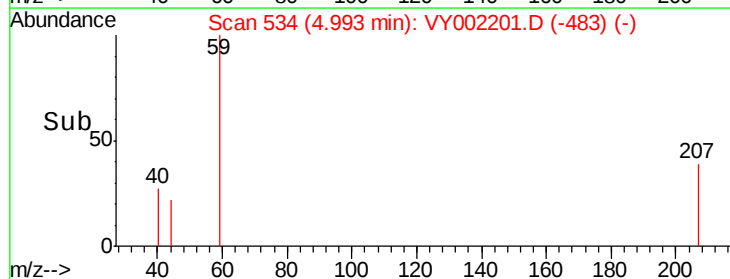
100

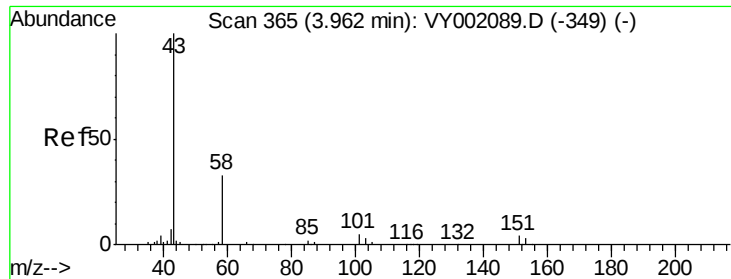
50

0

Time-->

4.95 5.00





#16

Acetone

Concen: 2.173 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.02 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

Instrument :

MSVOA_Y

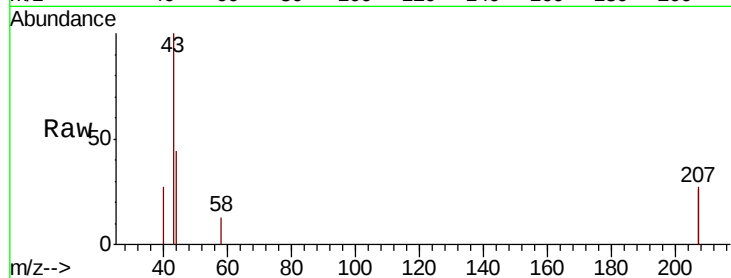
ClientSampleId :

Tot Ion: 43 Resp: 849

Ion Ratio Lower Upper

43 100

58 13.4 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VY002089.D (-349) (-)

Ion 58.00 (57.70 to 58.70): VY002089.D (-349) (-)

3.98

400

300

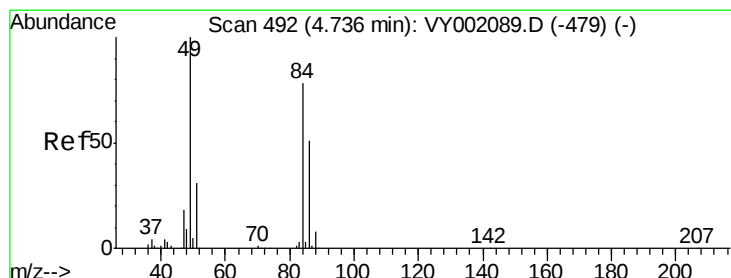
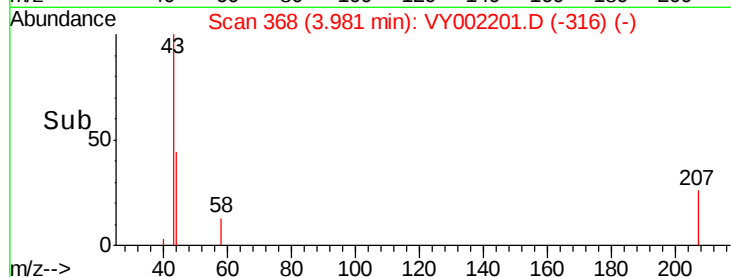
200

100

0

3.90 3.95 4.00 4.05

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.74 min Scan# 493

Delta R.T. 0.01 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

Tgt Ion: 84 Resp: 2800

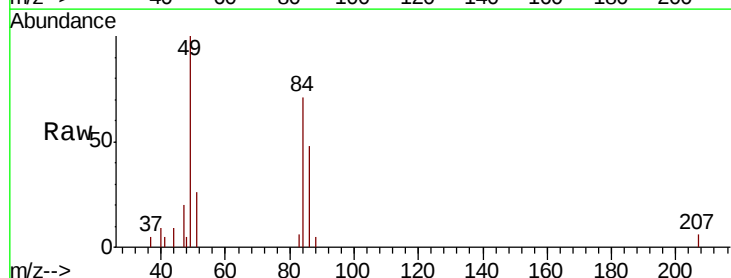
Ion Ratio Lower Upper

84 100

49 141.7 102.2 153.4

51 36.5 31.2 46.8

86 68.7 52.6 78.8



Abundance Ion 83.90 (83.60 to 84.60): VY002089.D (-479) (-)

Ion 48.90 (48.60 to 49.60): VY002089.D (-479) (-)

Ion 50.90 (50.60 to 51.60): VY002089.D (-479) (-)

Ion 85.90 (85.60 to 86.60): VY002089.D (-479) (-)

2000

1500

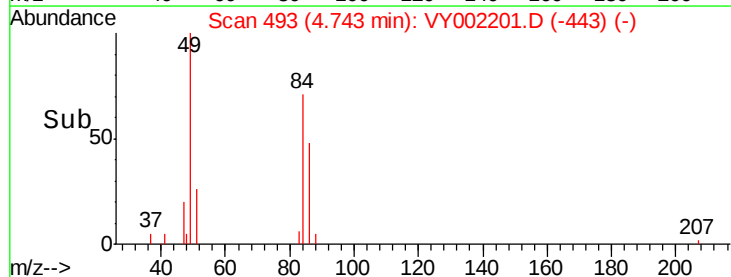
1000

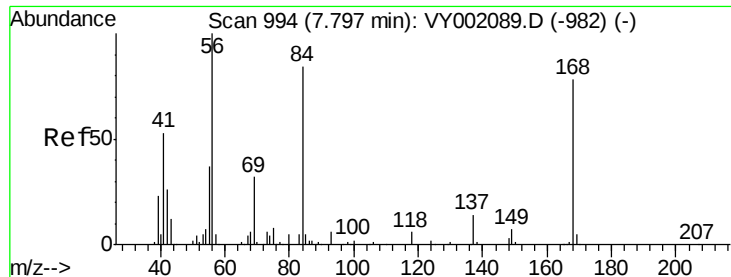
500

0

4.65 4.70 4.75 4.80

Time-->

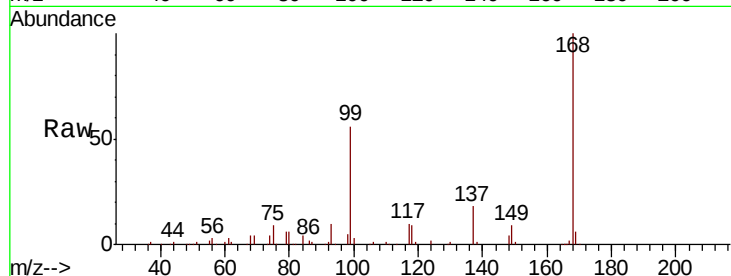




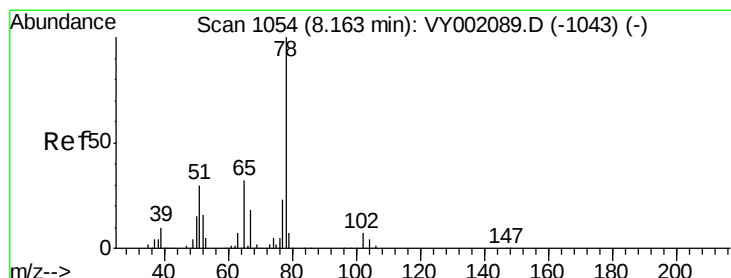
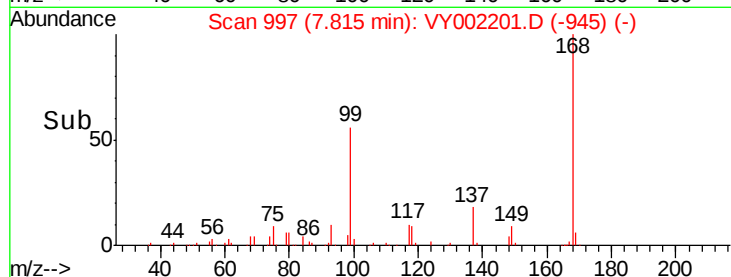
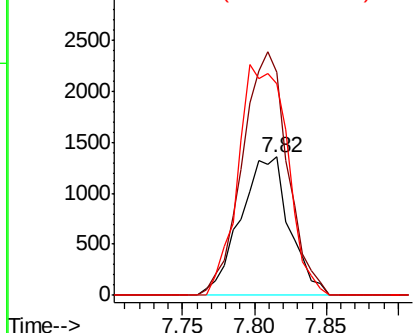
#31
Cyclohexane
Concen: 1.106 ug/l
RT: 7.82 min Scan# 997
Delta R.T. 0.02 min
Lab File: VY002201.D
Acq: 02 Apr 2020 18:35

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 56 Resp: 3205
Ion Ratio Lower Upper
56 100
69 162.0 25.8 38.8#
84 153.5 67.1 100.7#

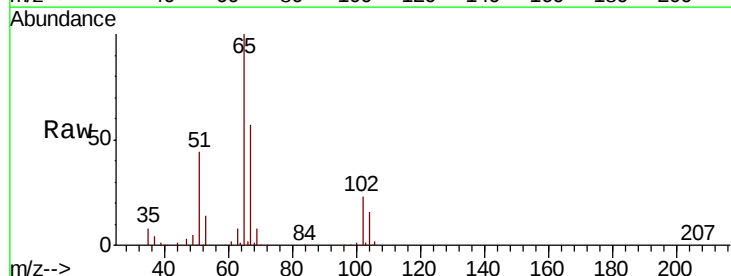


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

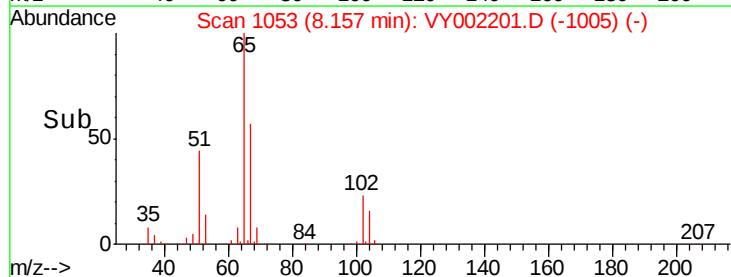
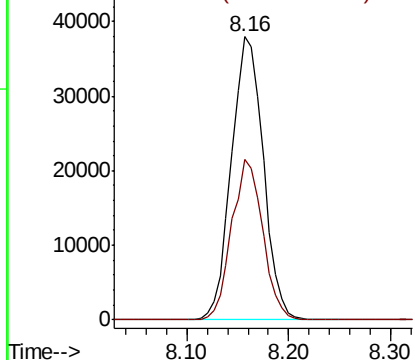


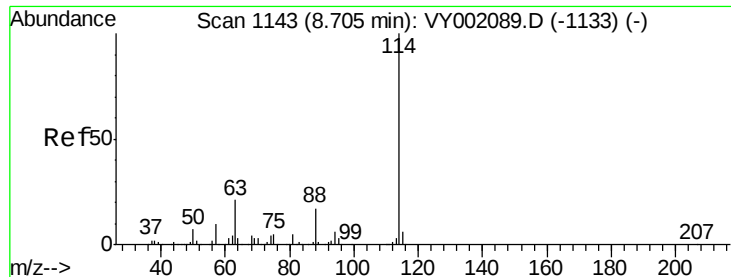
#33
1,2-Dichloroethane-d4
Concen: 59.188 ug/l
RT: 8.16 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VY002201.D
Acq: 02 Apr 2020 18:35

Tgt Ion: 65 Resp: 82295
Ion Ratio Lower Upper
65 100
67 55.1 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: 8.71 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

Instrument :

MSVOA_Y

ClientSampleId :

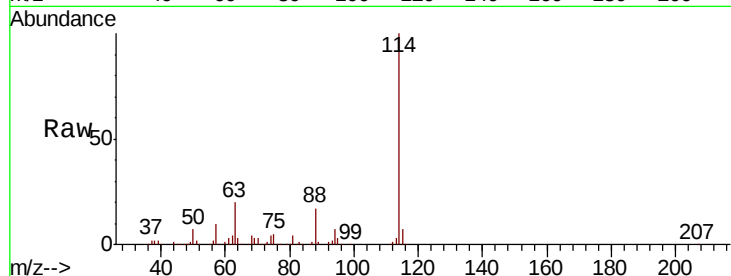
Tot Ion:114 Resp: 247116

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

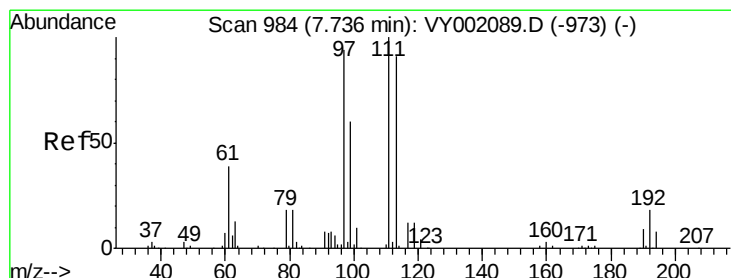
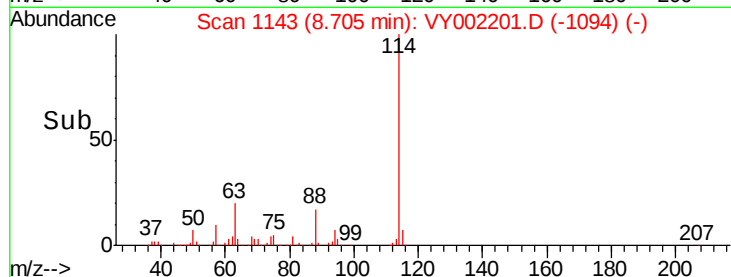
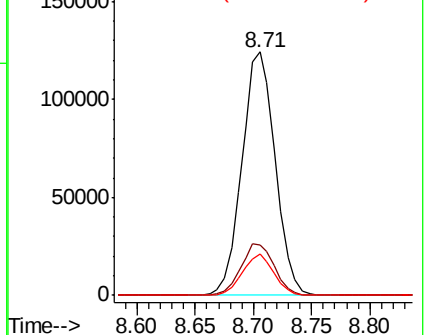
88 16.8 0.0 33.0



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: 52.655 ug/l

RT: 7.74 min Scan# 984

Delta R.T. 0.00 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

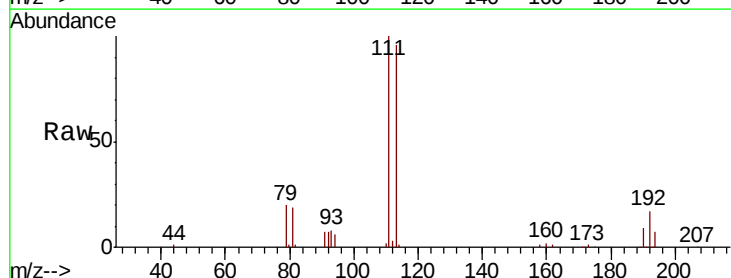
Tgt Ion:113 Resp: 72908

Ion Ratio Lower Upper

113 100

111 104.5 84.4 126.6

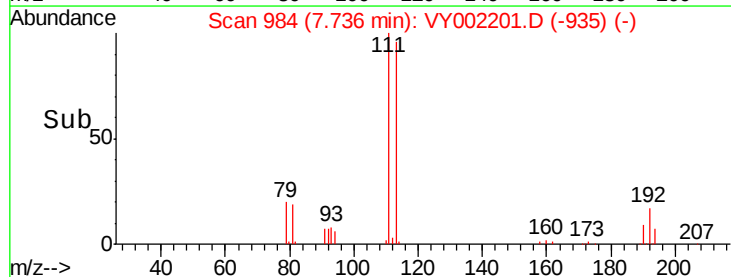
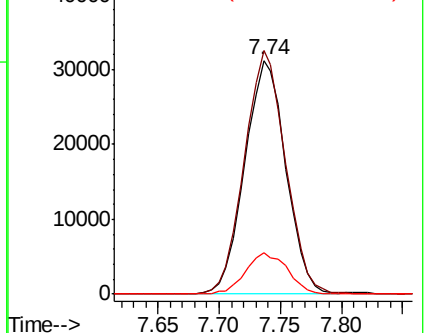
192 18.0 14.6 21.8

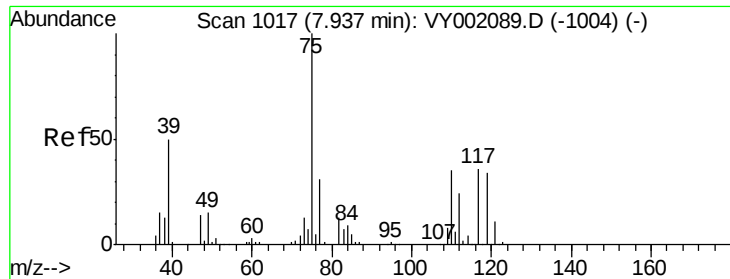


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.811 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.13 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

Instrument :
MSVOA_Y
ClientSampleId :

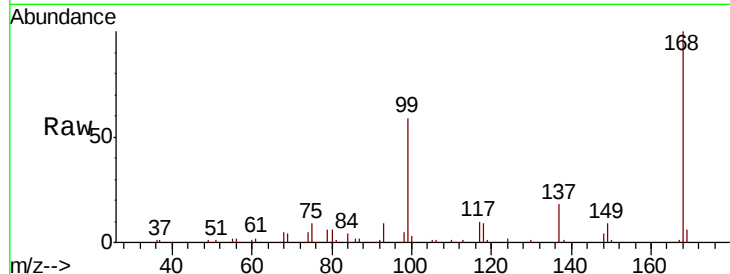
Tot Ion: 75 Resp: 11244

Ion Ratio Lower Upper

75 100

110 9.2 17.2 51.6#

77 0.0 24.7 37.1#

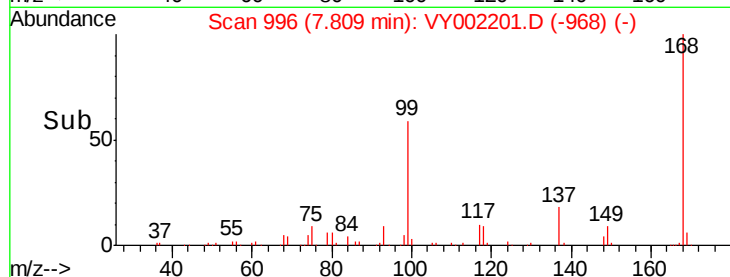


Abundance Ion 74.90 (74.60 to 75.60): VY002201.D (-968) (-)

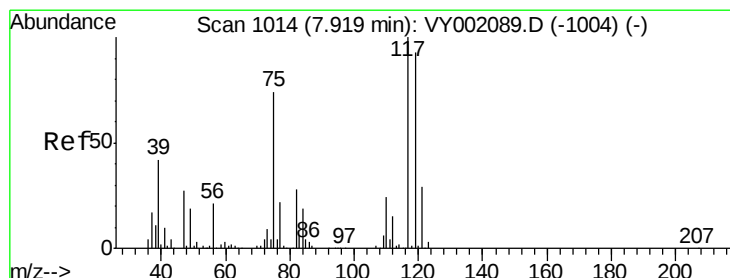
Ion 109.90 (109.60 to 110.60): VY002201.D (-968) (-)

Ion 76.90 (76.60 to 77.60): VY002201.D (-968) (-)

Time--> 7.70 7.75 7.80 7.85 7.90



Time--> 7.70 7.75 7.80 7.85 7.90



#38

Carbon Tetrachloride

Concen: 6.538 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.11 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

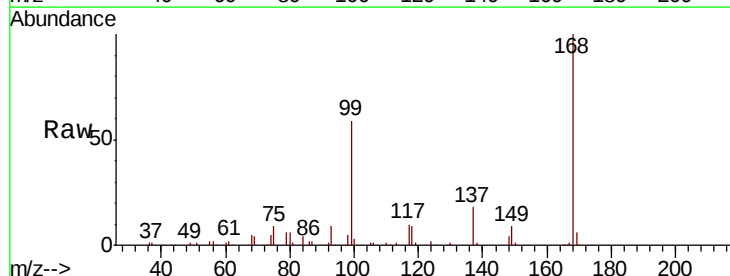
Tgt Ion: 117 Resp: 12966

Ion Ratio Lower Upper

117 100

119 7.5 74.3 111.5#

121 0.0 23.3 34.9#

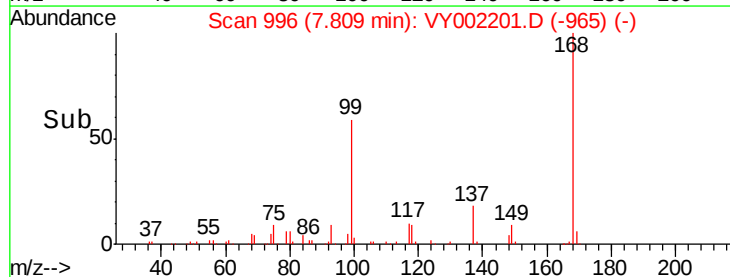


Abundance Ion 116.80 (116.50 to 117.50): VY002201.D (-965) (-)

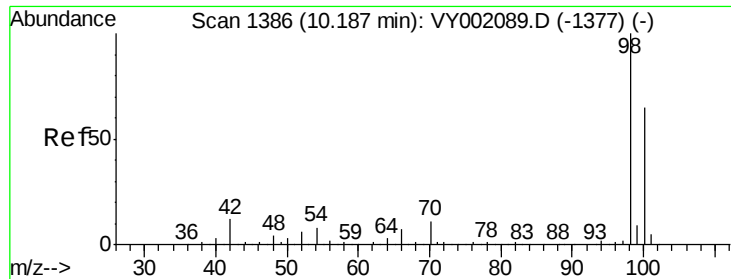
Ion 118.80 (118.50 to 119.50): VY002201.D (-965) (-)

Ion 120.80 (120.50 to 121.50): VY002201.D (-965) (-)

Time--> 7.70 7.75 7.80 7.85 7.90



Time--> 7.70 7.75 7.80 7.85 7.90



#50

Toluene-d8

Concen: 52.229 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

Instrument :

MSVOA_Y

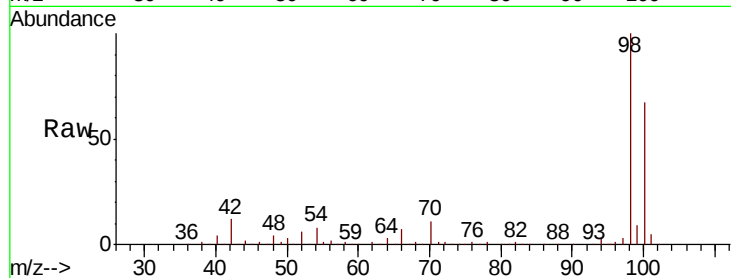
ClientSampleId :

Tot Ion: 98 Resp: 300427

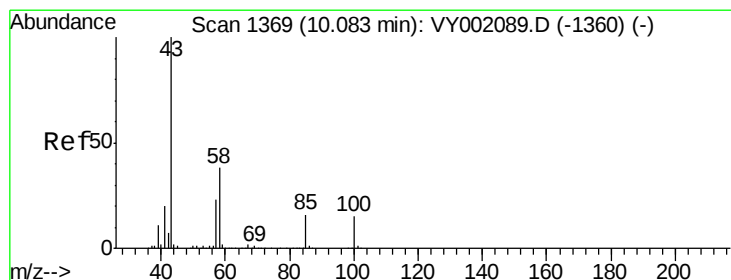
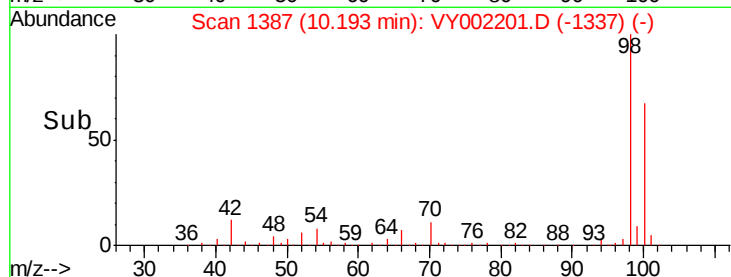
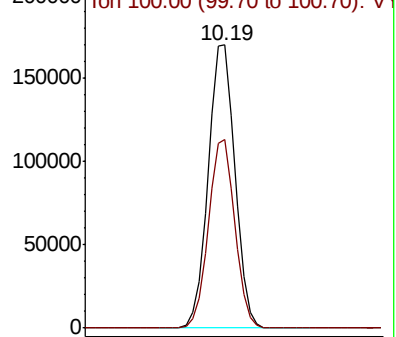
Ion Ratio Lower Upper

98 100

100 65.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VY002089.D (-1377) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.046 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. 0.10 min

Lab File: VY002201.D

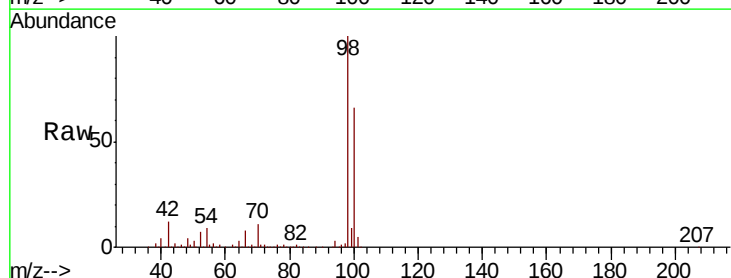
Acq: 02 Apr 2020 18:35

Tgt Ion: 43 Resp: 1412

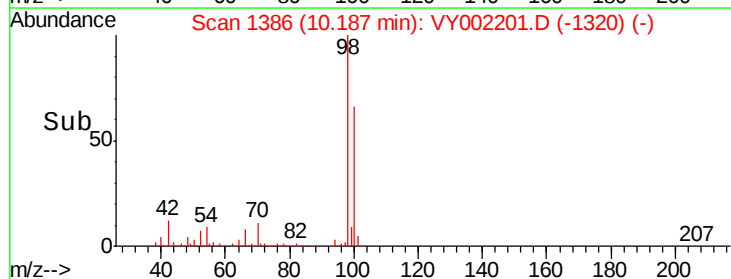
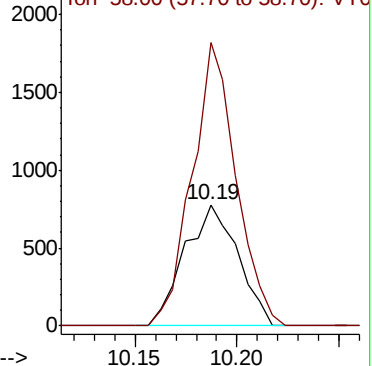
Ion Ratio Lower Upper

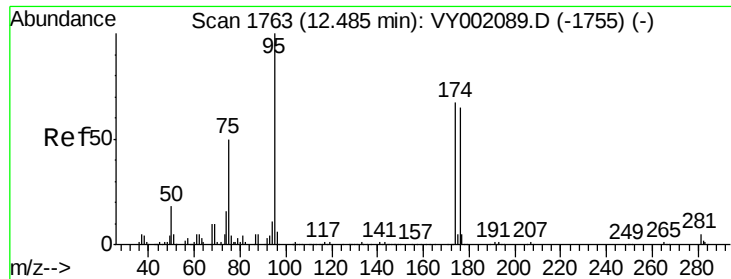
43 100

58 193.8 31.6 47.4#



Abundance Ion 43.00 (42.70 to 43.70): VY002089.D (-1360) (-)

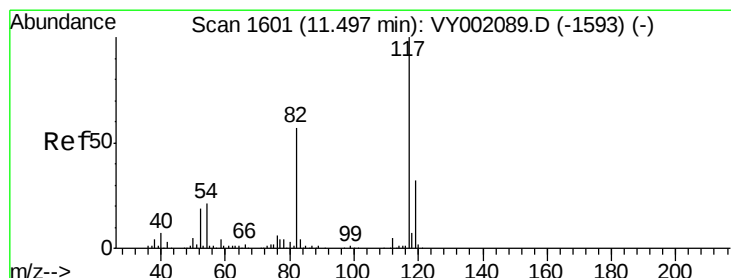
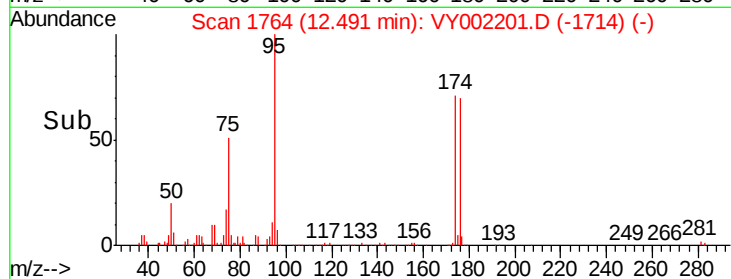
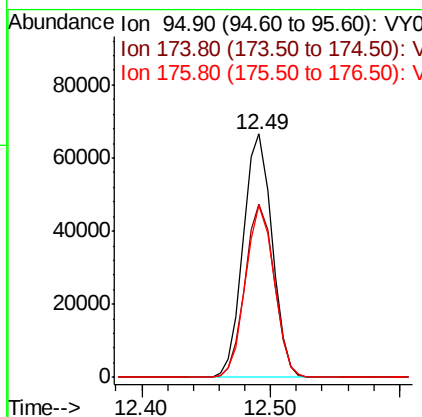
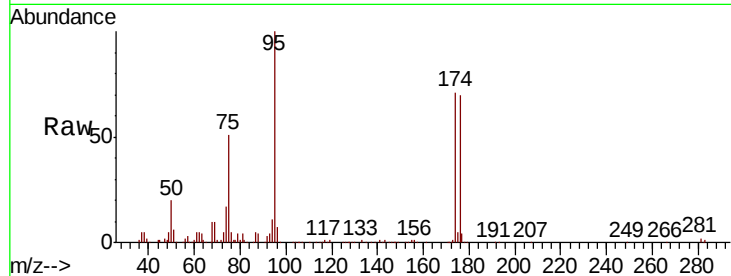




#62
4-Bromofluorobenzene
Concen: 51.232 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.01 min
Lab File: VY002201.D
Acq: 02 Apr 2020 18:35

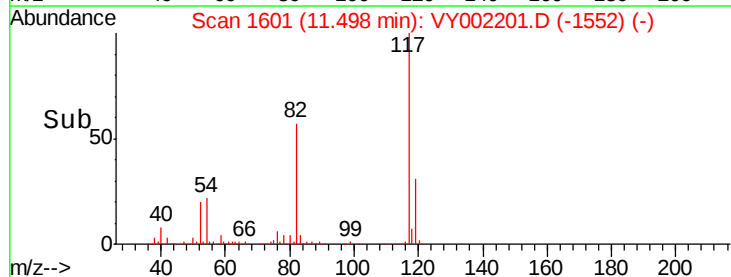
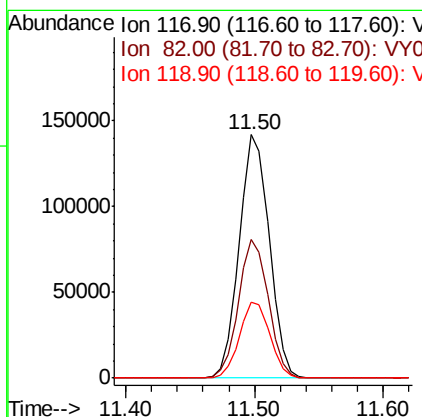
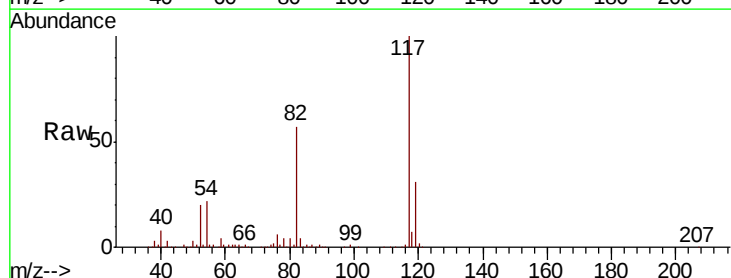
Instrument :
MSVOA_Y
ClientSampled :

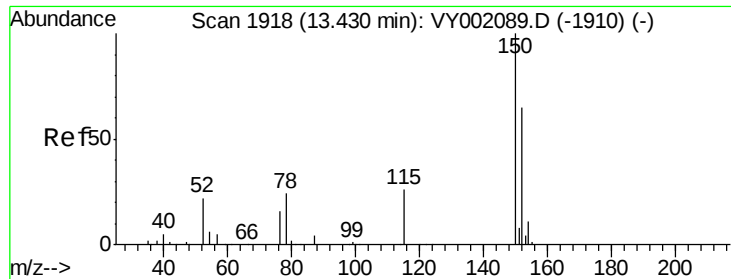
Tot Ion: 95 Resp: 103063
Ion Ratio Lower Upper
95 100
174 71.8 0.0 143.4
176 69.8 0.0 137.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. 0.00 min
Lab File: VY002201.D
Acq: 02 Apr 2020 18:35

Tgt Ion: 117 Resp: 228744
Ion Ratio Lower Upper
117 100
82 56.9 45.4 68.2
119 31.3 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.01 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

Instrument :

MSVOA_Y

ClientSampled :

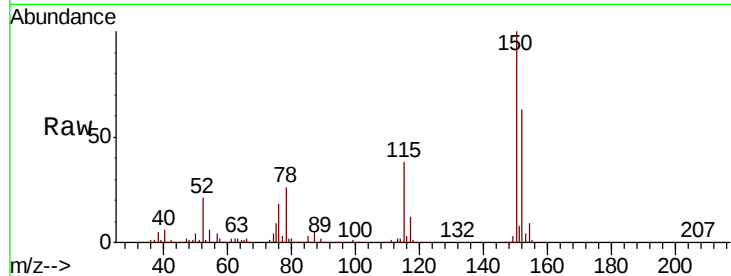
Tot Ion:152 Resp: 94642

Ion Ratio Lower Upper

152 100

115 62.0 31.2 93.6

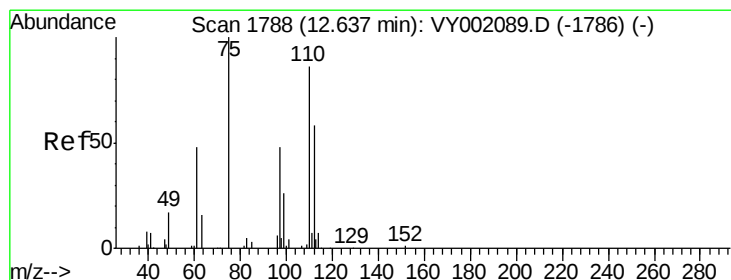
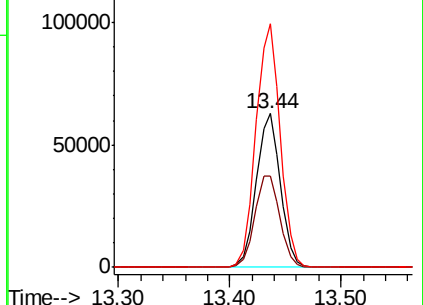
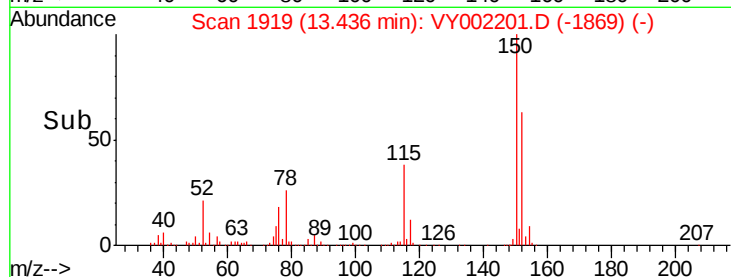
150 159.5 0.0 354.8



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: 49.833 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002201.D

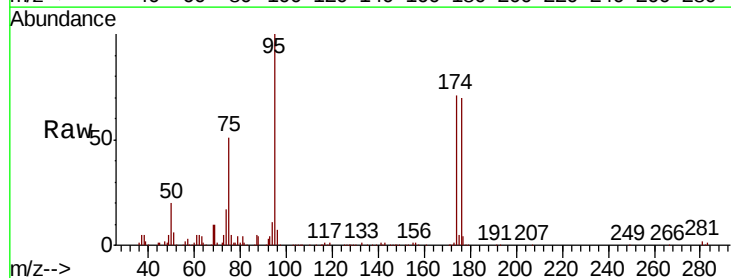
Acq: 02 Apr 2020 18:35

Tgt Ion: 75 Resp: 52756

Ion Ratio Lower Upper

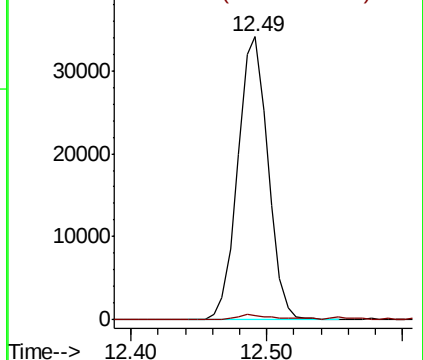
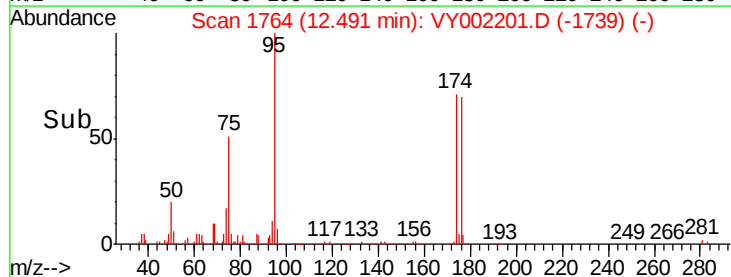
75 100

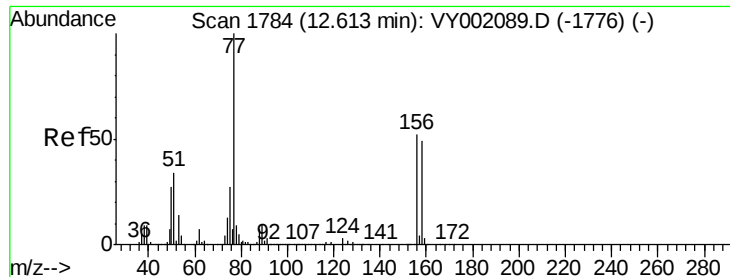
77 2.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 7.392 ug/l

RT: 12.53 min Scan# 1771

Delta R.T. -0.08 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

Instrument :

MSVOA_Y

ClientSampleId :

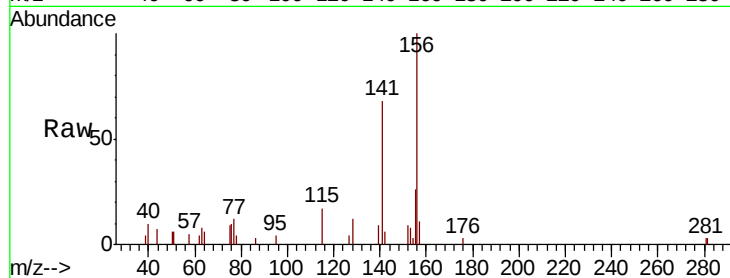
Tot Ion:156 Resp: 11078

Ion Ratio Lower Upper

156 100

77 3.7 107.8 323.6#

158 0.0 47.5 142.6#

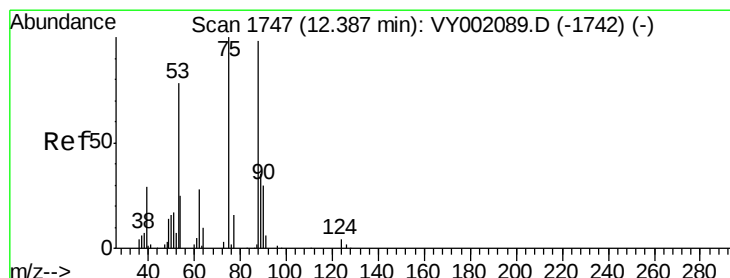
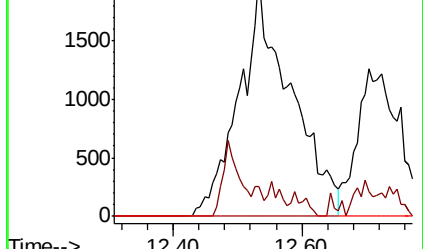
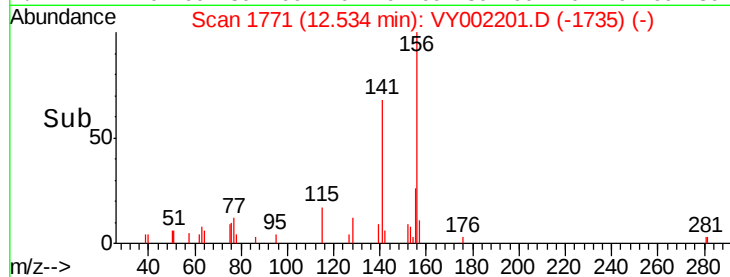


Abundance Ion 155.80 (155.50 to 156.50): VY002089.D (-1776) (-)

Ion 77.00 (76.70 to 77.70): VY002089.D (-1776) (-)

Ion 157.80 (157.50 to 158.50): VY002089.D (-1776) (-)

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 96.544 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

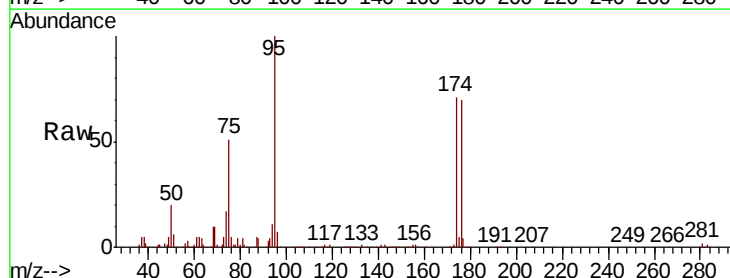
Tgt Ion: 75 Resp: 52756

Ion Ratio Lower Upper

75 100

53 0.0 65.0 97.4#

89 0.2 33.4 50.0#

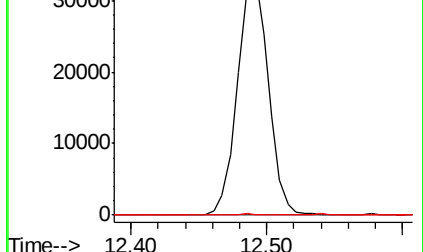
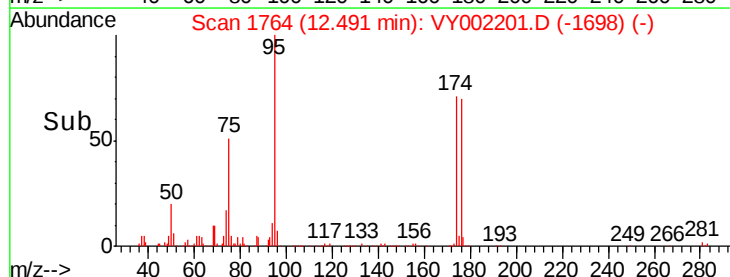


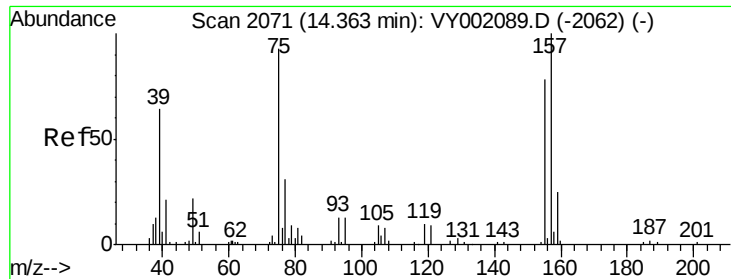
Abundance Ion 74.90 (74.60 to 75.60): VY002089.D (-1742) (-)

Ion 53.00 (52.70 to 53.70): VY002089.D (-1742) (-)

Ion 88.90 (88.60 to 89.60): VY002089.D (-1742) (-)

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.223 ug/l

RT: 14.54 min Scan# 2100

Delta R.T. 0.18 min

Lab File: VY002201.D

Acq: 02 Apr 2020 18:35

Instrument :

MSVOA_Y

ClientSampleId :

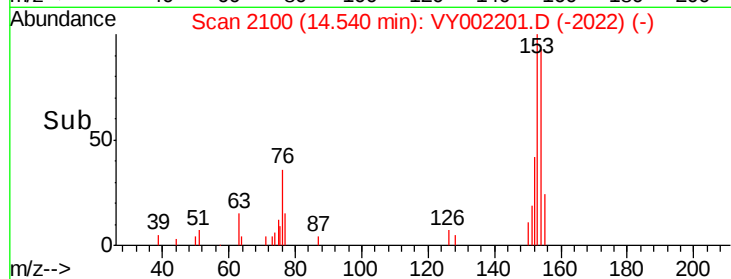
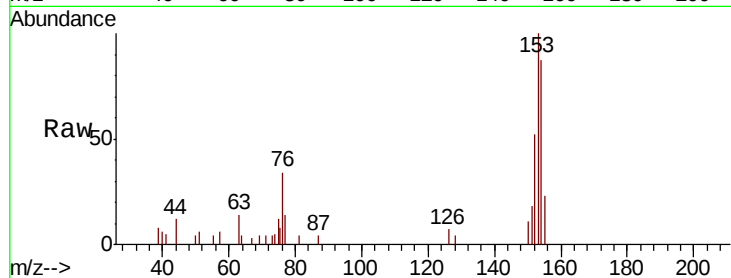
Tot Ion: 75 Resp: 538

Ion Ratio Lower Upper

75 100

155 0.0 41.6 124.9#

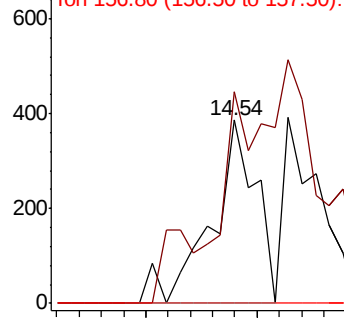
157 0.0 53.4 160.3#



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



Time-->