

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY022020\
 Data File : VY001722.D
 Acq On : 20 Feb 2020 14:28
 Operator : SY/MD
 Sample : L1589-02RE
 Misc : 6.87G/5ML/MSVOA Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 21 08:05:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y021720S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 17 12:19:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	210193	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	387017	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	350691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	165149	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	120408	53.26	ug/l	0.00
Spiked Amount			Recovery	=	106.52%	
35) Dibromofluoromethane	7.75	113	113134	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	
50) Toluene-d8	10.19	98	459279	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
62) 4-Bromofluorobenzene	12.49	95	168612	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	

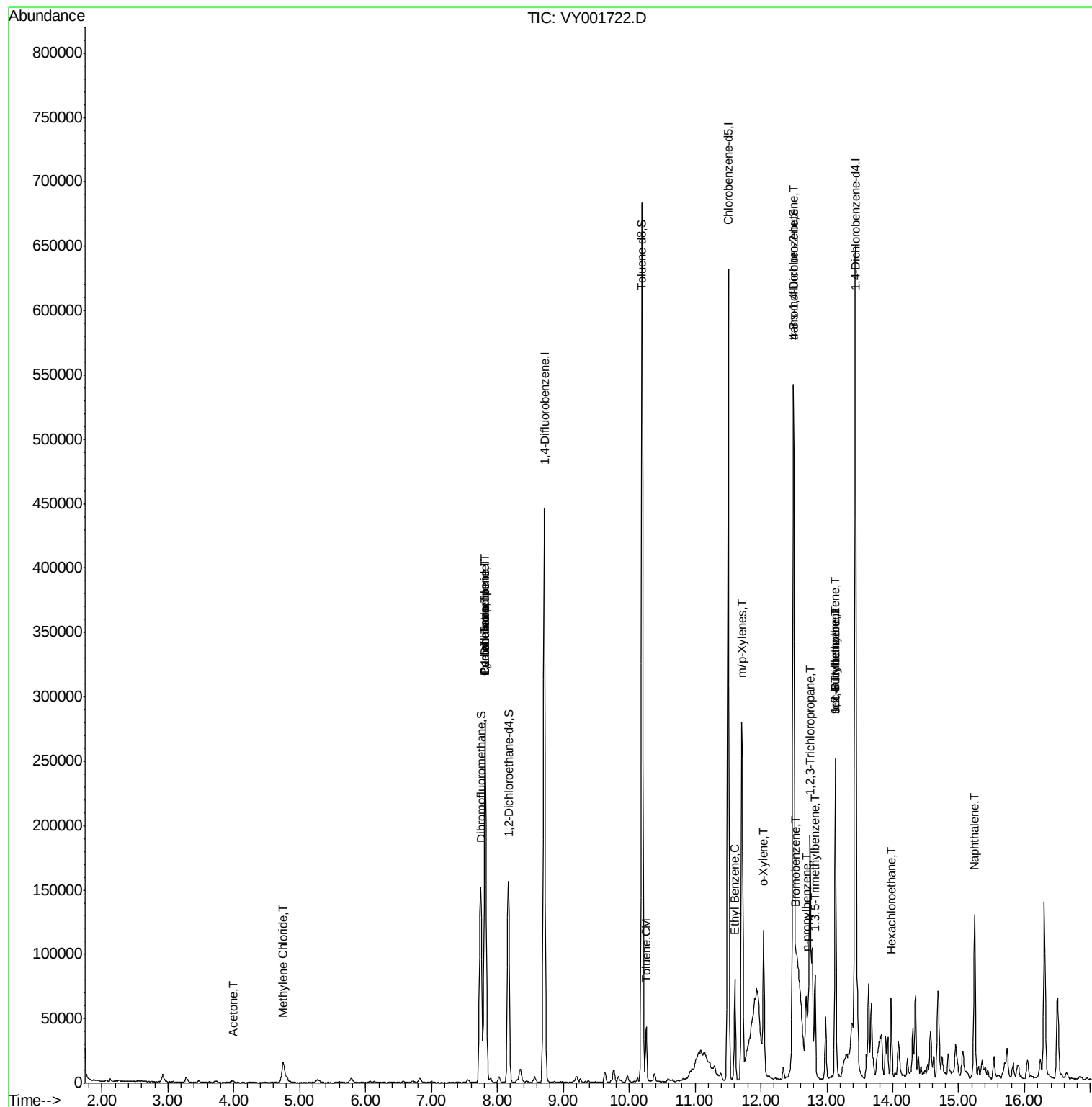
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.00	59	67	Below Cal	#	74
16) Acetone	3.98	43	2315	2.959	ug/l #	76
20) Methylene Chloride	4.75	84	11207	4.033	ug/l	91
31) Cyclohexane	7.82	56	5412	1.139	ug/l #	1
36) 1,1-Dichloropropene	7.82	75	16801	4.545	ug/l #	50
38) Carbon Tetrachloride	7.82	117	20976	6.460	ug/l #	17
52) Toluene	10.25	92	17958	2.648	ug/l	95
67) Ethyl Benzene	11.61	91	55503	4.272	ug/l	96
68) m/p-Xylenes	11.71	106	88096	18.151	ug/l	97
69) o-Xylene	12.04	106	28708	6.222	ug/l	98
76) 1,2,3-Trichloropropane	12.75	75	3365	1.776	ug/l #	100
77) Bromobenzene	12.53	156	166341	60.989	ug/l #	1
78) n-propylbenzene	12.68	91	31265	2.040	ug/l	96
80) 1,3,5-Trimethylbenzene	12.82	105	32690	3.139	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.49	75	82810	82.928	ug/l #	18
83) tert-Butylbenzene	13.13	119	16539	1.899	ug/l #	71
84) 1,2,4-Trimethylbenzene	13.13	105	139196	13.406	ug/l	100
85) sec-Butylbenzene	13.13	105	139196	10.866	ug/l #	57
90) Hexachloroethane	13.98	117	2446	1.167	ug/l #	18
95) Naphthalene	15.24	128	101580	13.619	ug/l	99

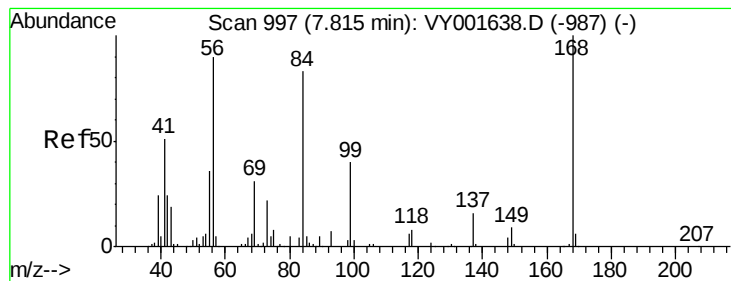
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Feb 17 12:19:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

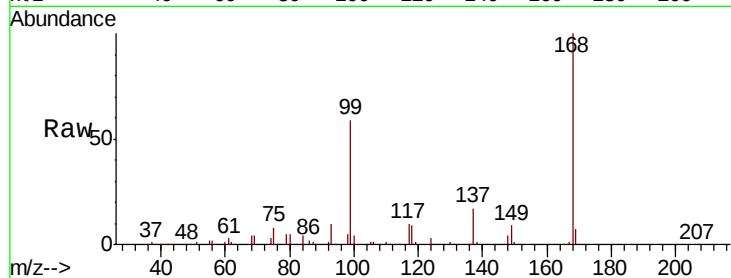
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 210193

Ion Ratio Lower Upper

168 100

99 58.6 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VY001722.D (-948) (-)

Ion 98.90 (98.60 to 99.60): VY001722.D (-948) (-)

7.82

100000

80000

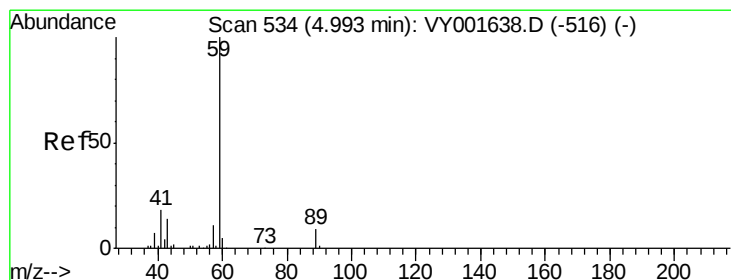
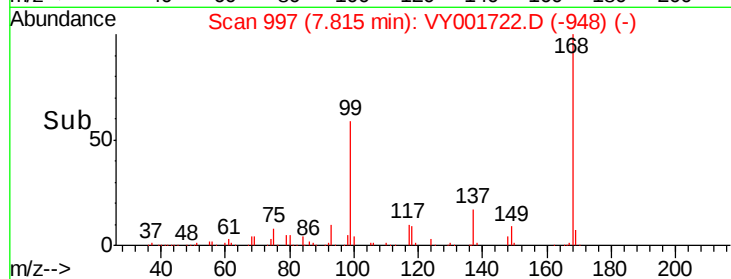
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.00 min Scan# 535

Delta R.T. 0.01 min

Lab File: VY001722.D

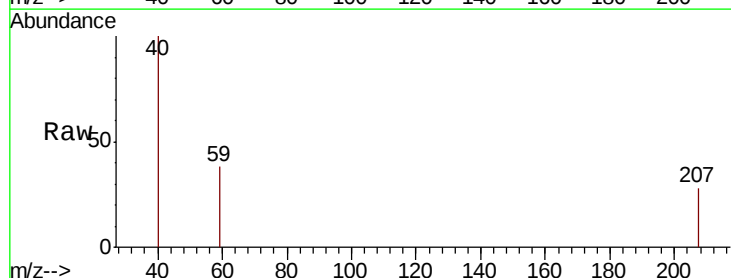
Acq: 20 Feb 2020 14:28

Tgt Ion: 59 Resp: 67

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001722.D (-485) (-)

Ion 57.00 (56.70 to 57.70): VY001722.D (-485) (-)

5.00

100

80

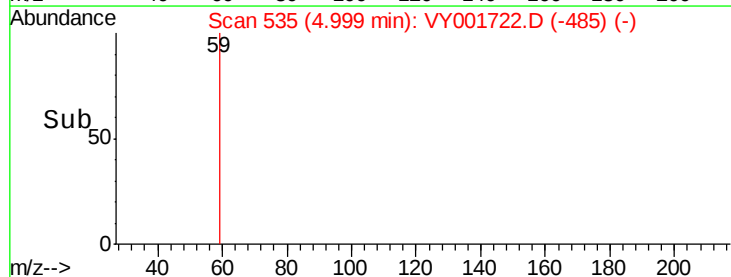
60

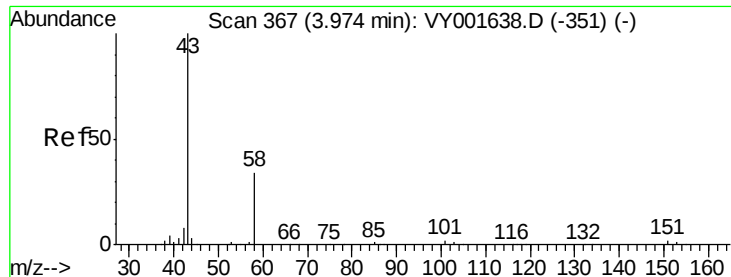
40

20

0

Time-->





#16

Acetone

Concen: 2.959 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.01 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

Instrument :

MSVOA_Y

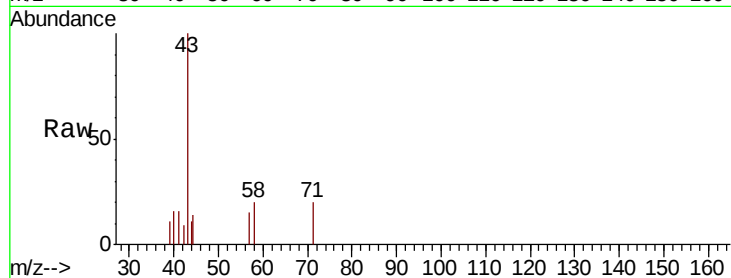
ClientSampleId :

Tot Ion: 43 Resp: 2315

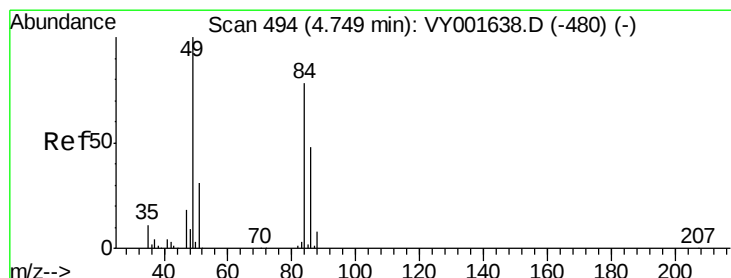
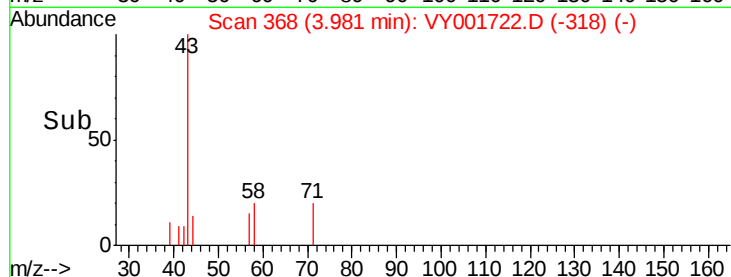
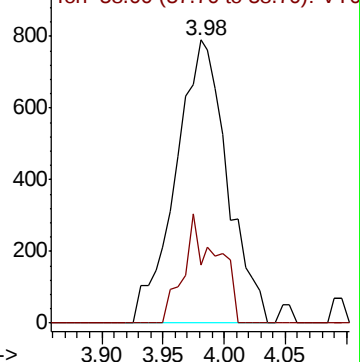
Ion Ratio Lower Upper

43 100

58 20.4 27.3 40.9#



Abundance Ion 43.00 (42.70 to 43.70): VY001638.D (-351) (-)



#20

Methylene Chloride

Concen: 4.033 ug/l

RT: 4.75 min Scan# 494

Delta R.T. 0.00 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

Tgt Ion: 84 Resp: 11207

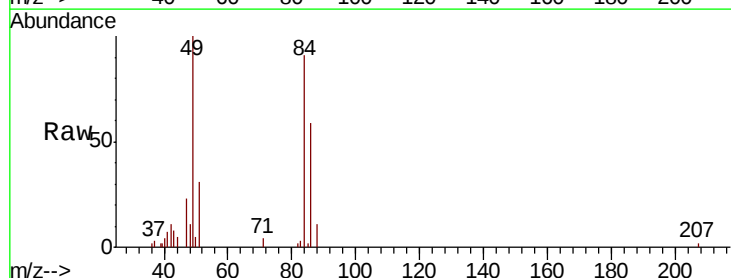
Ion Ratio Lower Upper

84 100

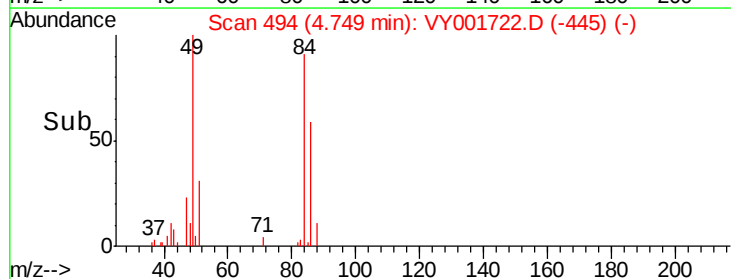
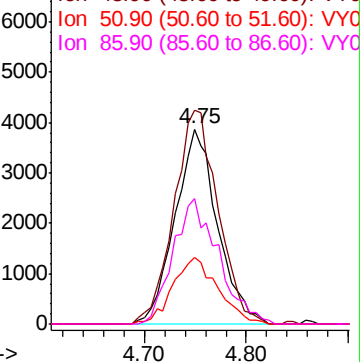
49 109.6 99.2 148.8

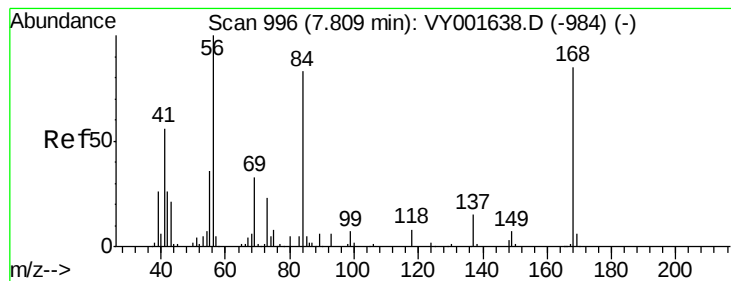
51 34.3 31.5 47.3

86 64.4 51.0 76.6



Abundance Ion 83.90 (83.60 to 84.60): VY001638.D (-480) (-)





#31

Cyclohexane

Concen: 1.139 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

Instrument :
MSVOA_Y
ClientSampled :

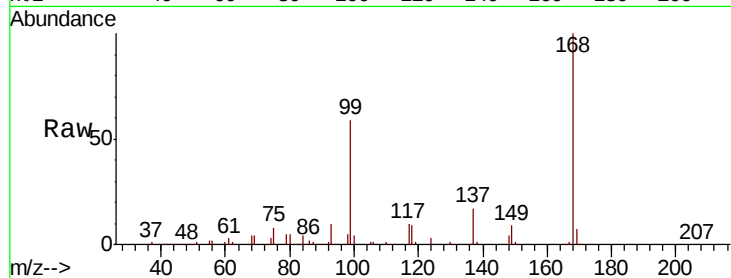
Tot Ion: 56 Resp: 5412

Ion Ratio Lower Upper

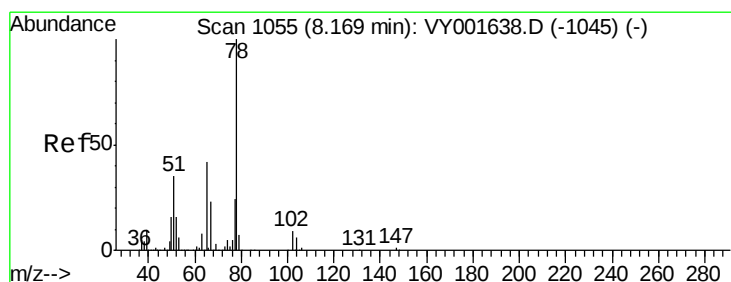
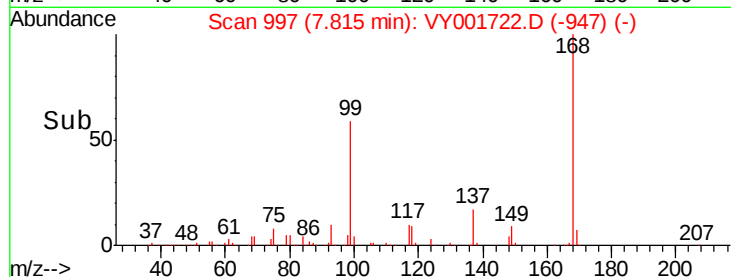
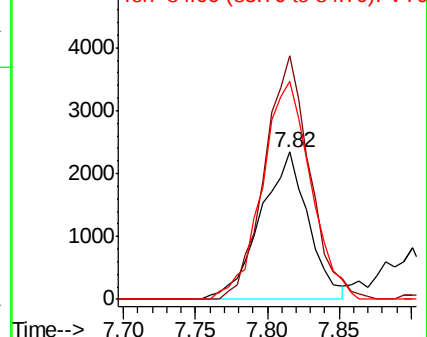
56 100

69 165.0 25.1 37.7#

84 158.0 66.9 100.3#



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: 53.256 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.00 min

Lab File: VY001722.D

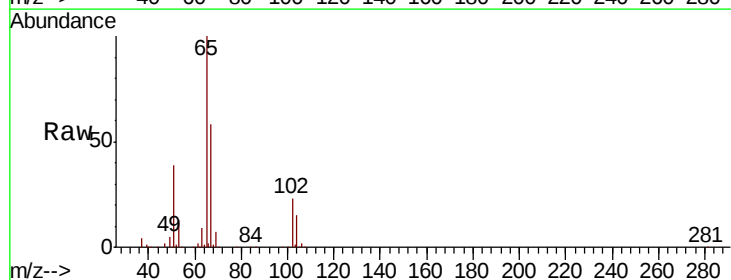
Acq: 20 Feb 2020 14:28

Tgt Ion: 65 Resp: 120408

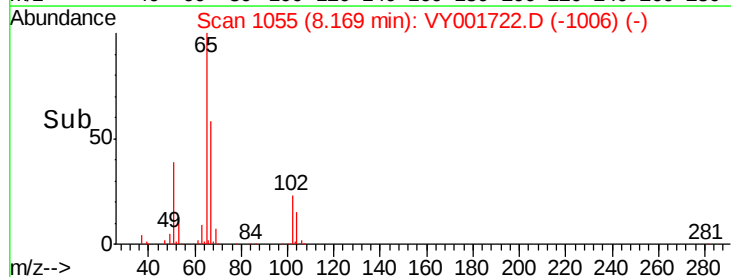
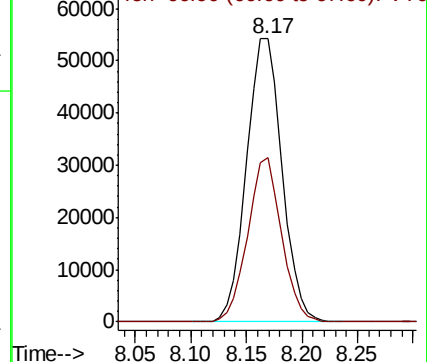
Ion Ratio Lower Upper

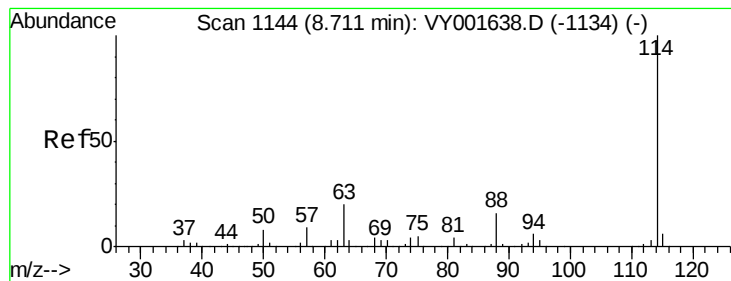
65 100

67 55.2 0.0 111.0



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. 0.00 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

Instrument :

MSVOA_Y

ClientSampleId :

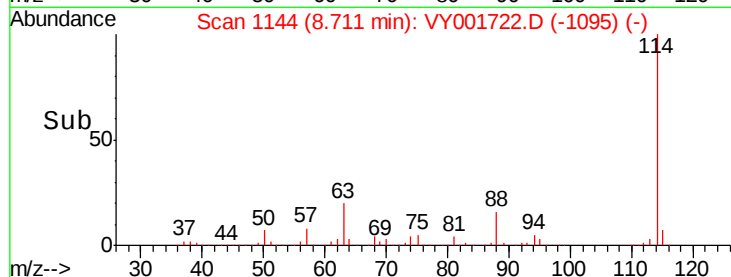
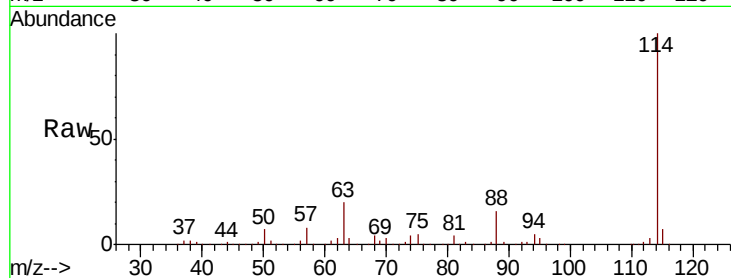
Tot Ion:114 Resp: 387017

Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

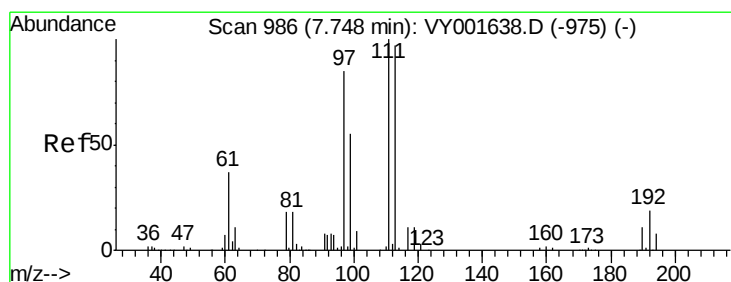
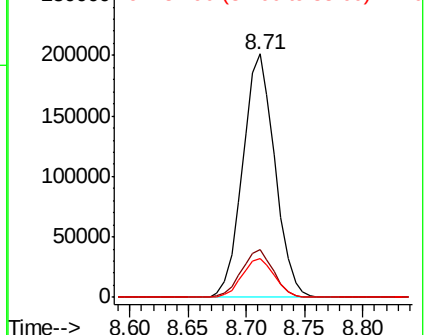
88 15.8 0.0 32.8



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: 51.038 ug/l

RT: 7.75 min Scan# 986

Delta R.T. 0.00 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

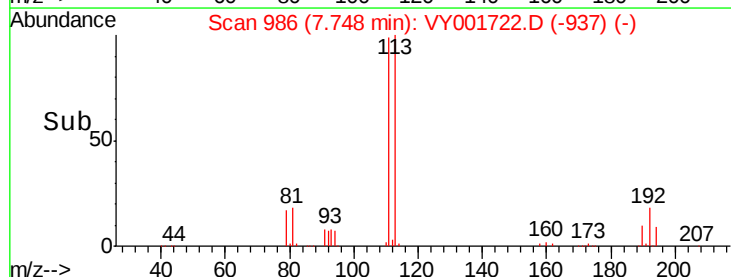
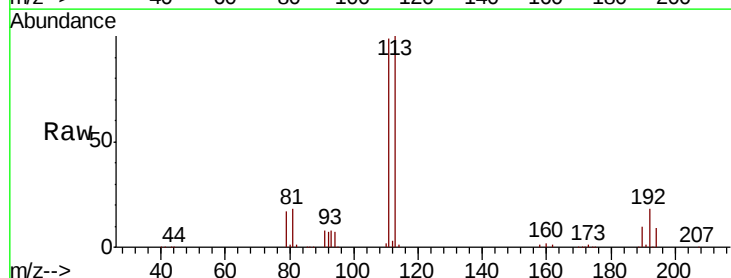
Tgt Ion:113 Resp: 113134

Ion Ratio Lower Upper

113 100

111 102.6 81.9 122.9

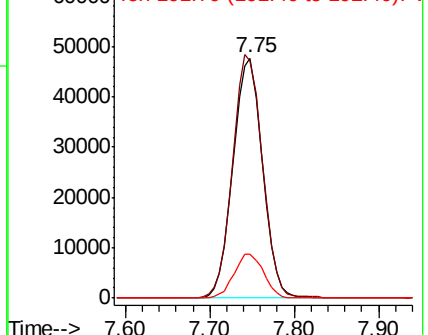
192 18.4 14.3 21.5

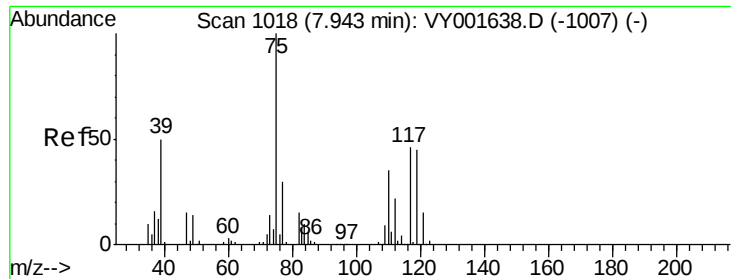


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

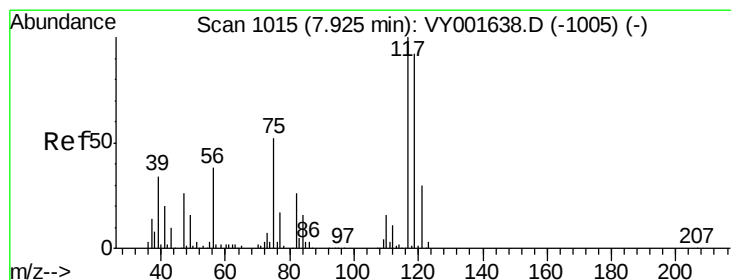
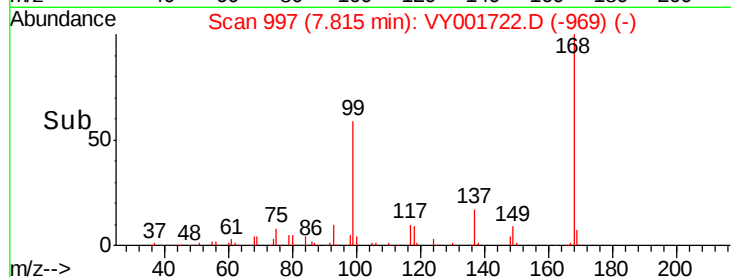
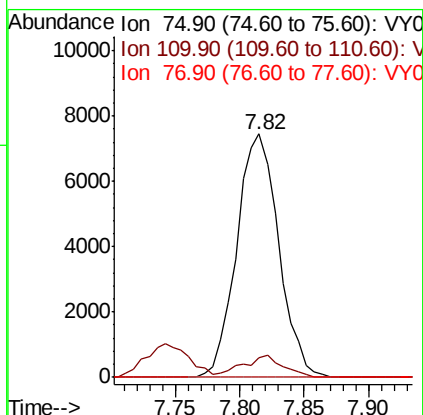
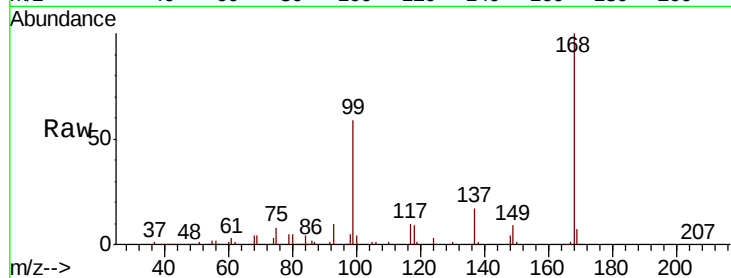




#36
 1,1-Dichloropropene
 Concen: 4.545 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.13 min
 Lab File: VY001722.D
 Acq: 20 Feb 2020 14:28

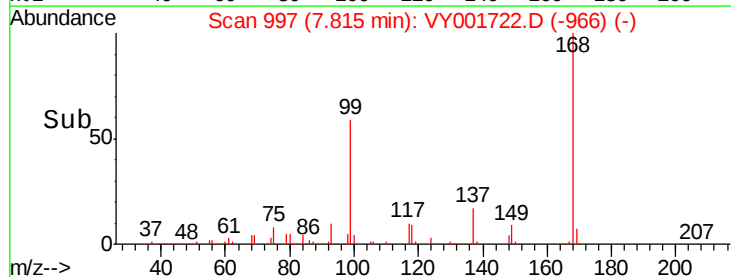
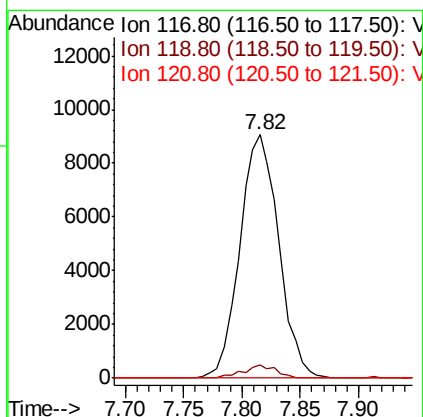
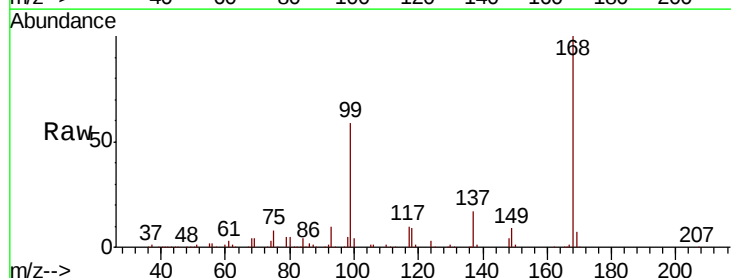
Instrument :
 MSVOA_Y
 ClientSampleId :

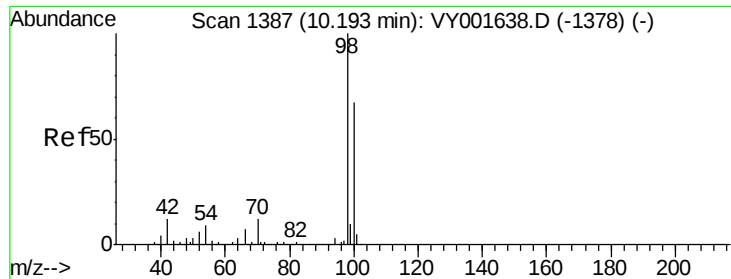
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	17.2	51.6#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.460 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.11 min
 Lab File: VY001722.D
 Acq: 20 Feb 2020 14:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	74.8	112.2#
121	0.0	23.8	35.6#





#50

Toluene-d8

Concen: 52.887 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

Instrument :

MSVOA_Y

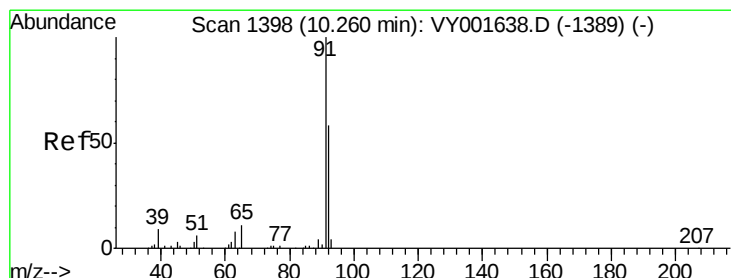
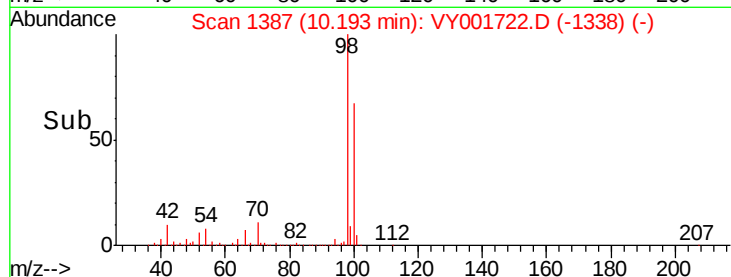
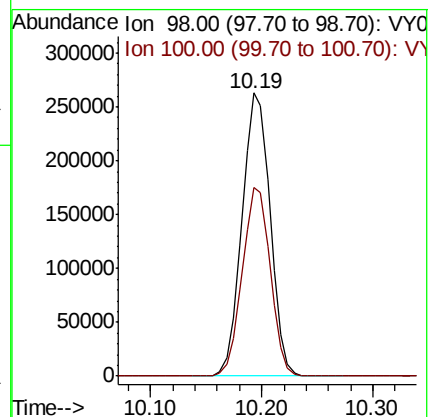
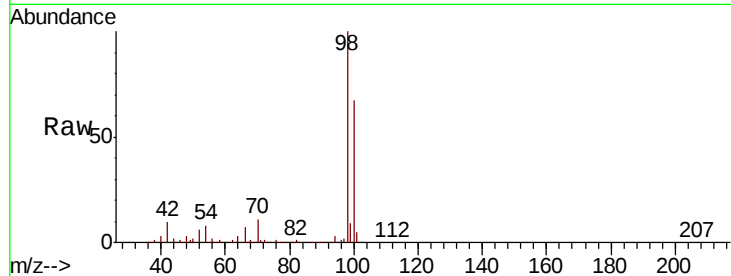
ClientSampled :

Tot Ion: 98 Resp: 459279

Ion Ratio Lower Upper

98 100

100 66.4 53.0 79.4



#52

Toluene

Concen: 2.648 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.01 min

Lab File: VY001722.D

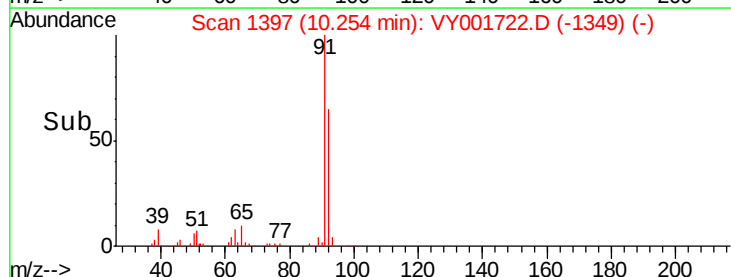
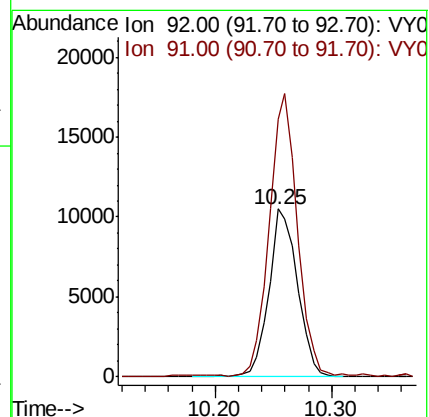
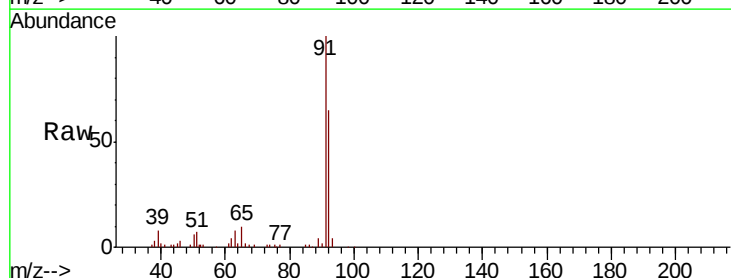
Acq: 20 Feb 2020 14:28

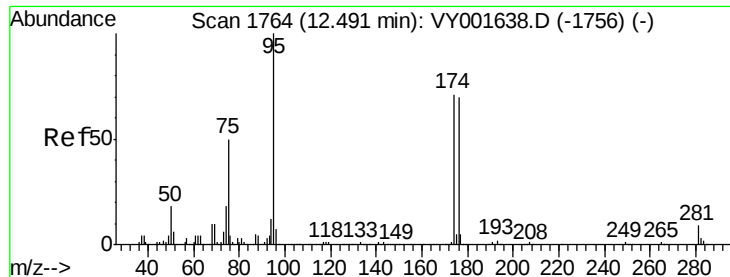
Tgt Ion: 92 Resp: 17958

Ion Ratio Lower Upper

92 100

91 163.8 137.0 205.6

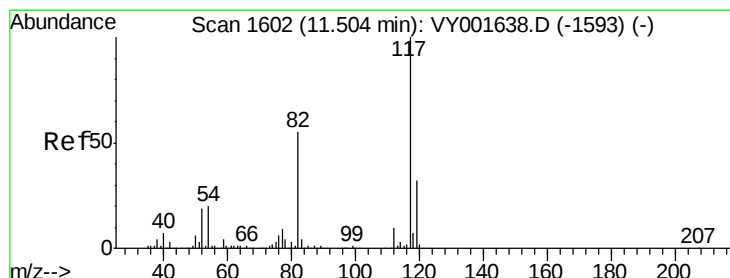
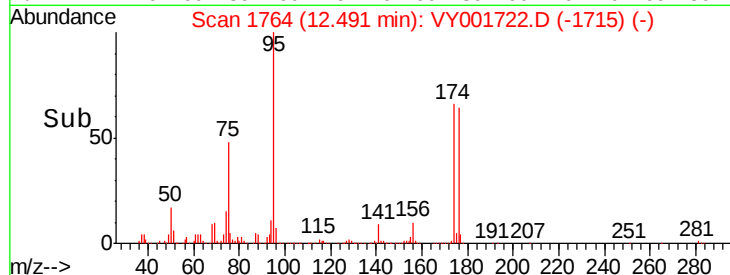
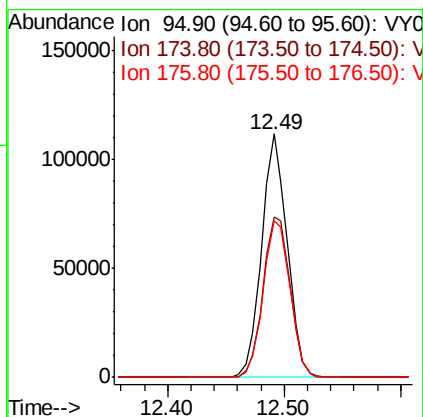
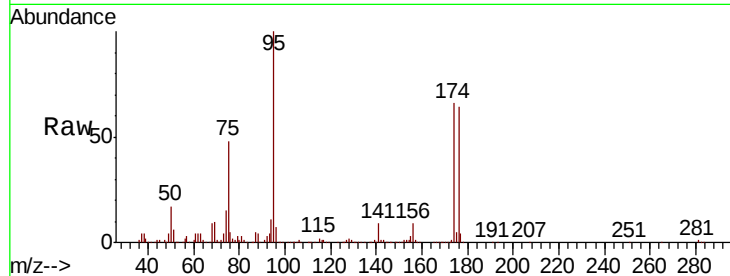




#62
4-Bromofluorobenzene
Concen: 49.978 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VY001722.D
Acq: 20 Feb 2020 14:28

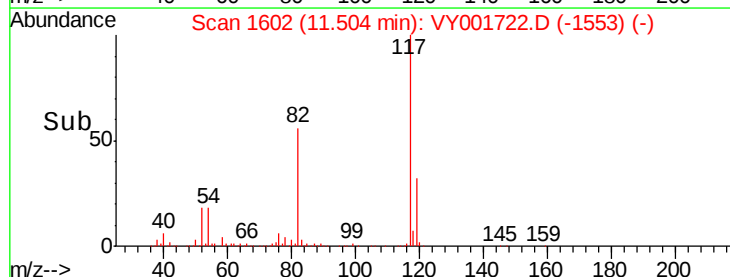
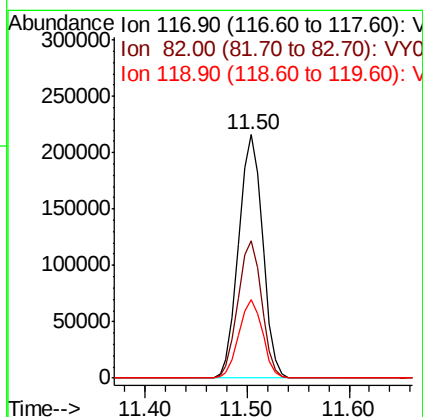
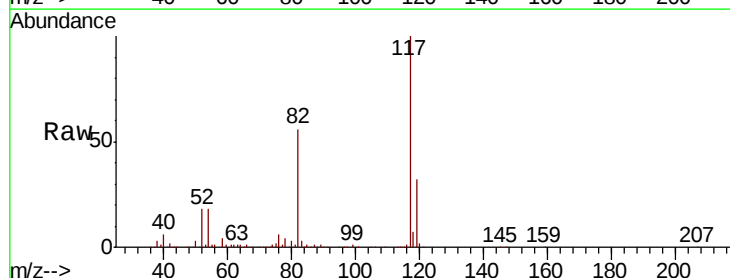
Instrument :
MSVOA_Y
ClientSampleId :

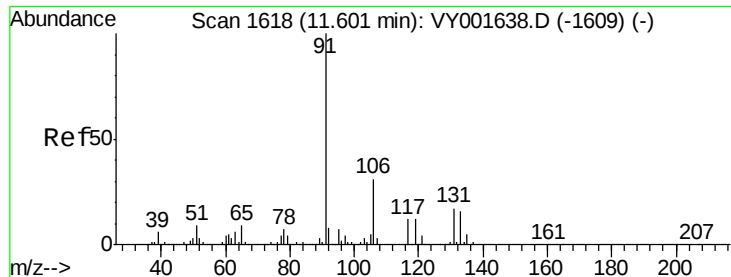
Tot Ion	95	Resp	168612
Ion Ratio	Lower	Upper	
95	100		
174	70.4	0.0	138.4
176	68.0	0.0	131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VY001722.D
Acq: 20 Feb 2020 14:28

Tgt Ion	117	Resp	350691
Ion Ratio	Lower	Upper	
117	100		
82	56.4	45.5	68.3
119	32.3	25.8	38.6

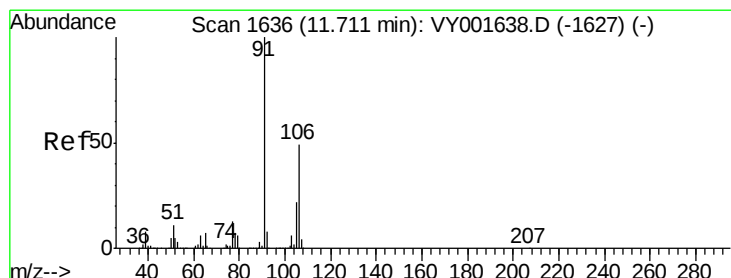
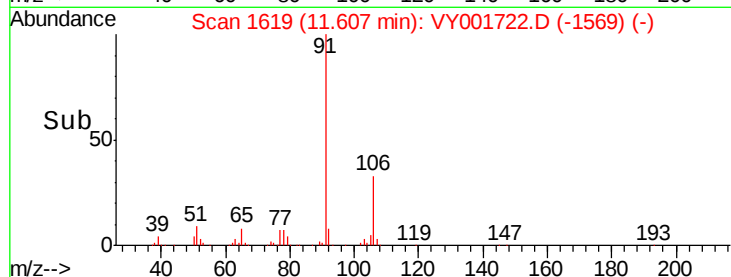
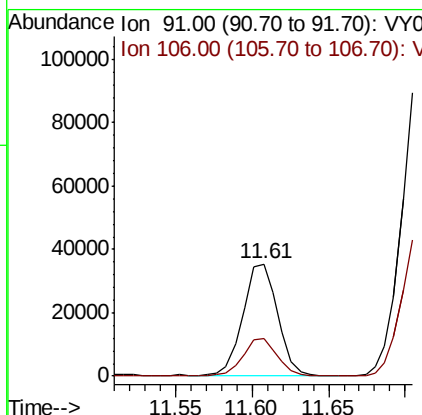
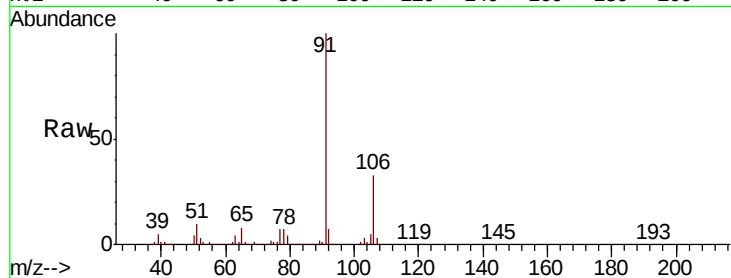




#67
Ethyl Benzene
Concen: 4.272 ug/l
RT: 11.61 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VY001722.D
Acq: 20 Feb 2020 14:28

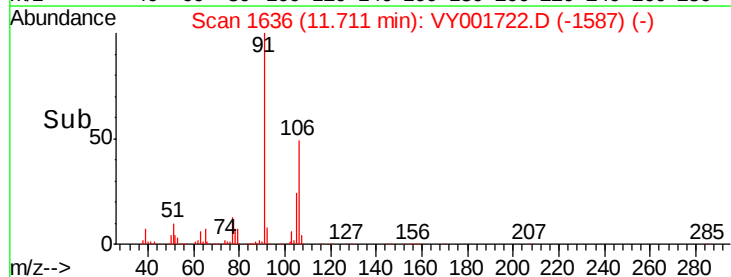
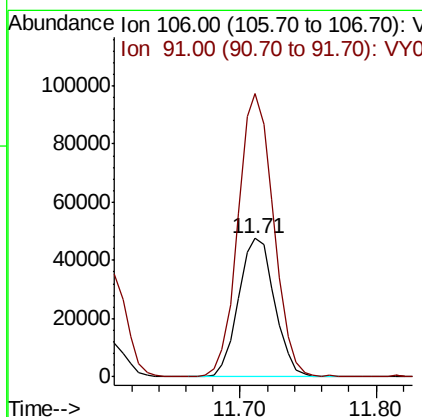
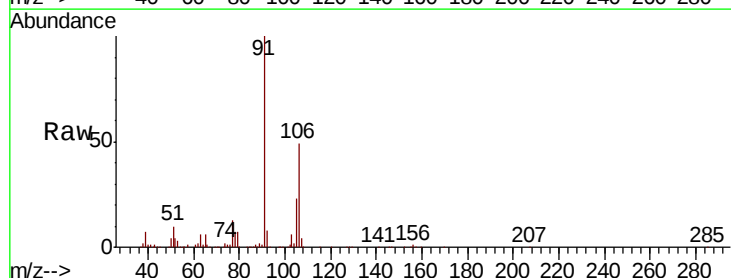
Instrument :
MSVOA_Y
ClientSampleId :

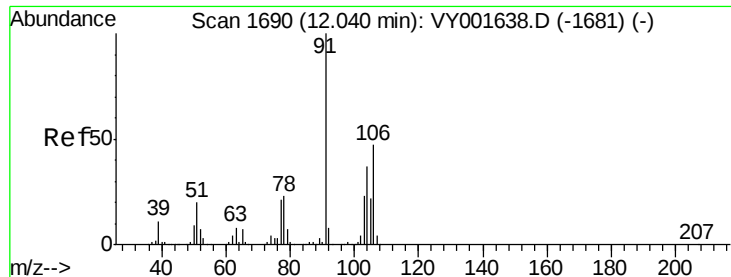
Tot Ion: 91 Resp: 55503
Ion Ratio Lower Upper
91 100
106 32.9 24.5 36.7



#68
m/p-Xylenes
Concen: 18.151 ug/l
RT: 11.71 min Scan# 1636
Delta R.T. 0.00 min
Lab File: VY001722.D
Acq: 20 Feb 2020 14:28

Tgt Ion: 106 Resp: 88096
Ion Ratio Lower Upper
106 100
91 199.7 163.3 244.9

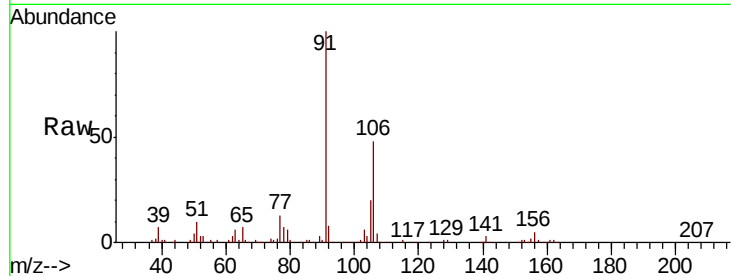




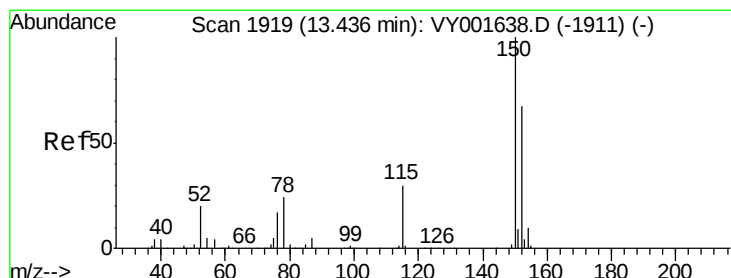
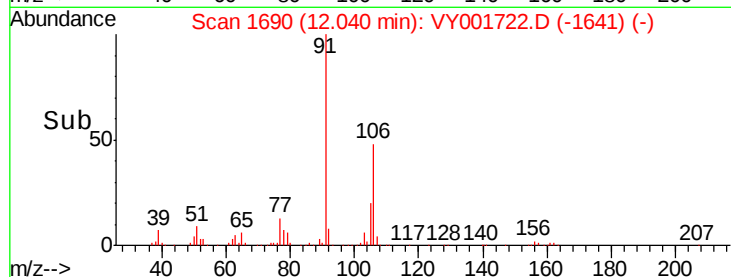
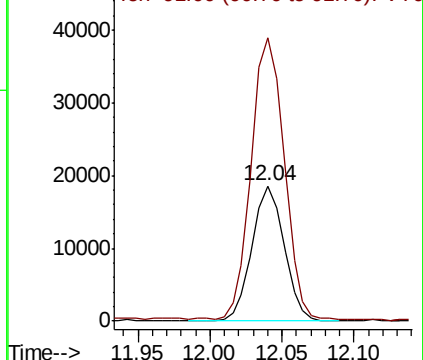
#69
o-Xylene
Concen: 6.222 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VY001722.D
Acq: 20 Feb 2020 14:28

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:106 Resp: 28708
Ion Ratio Lower Upper
106 100
91 213.0 108.3 324.9

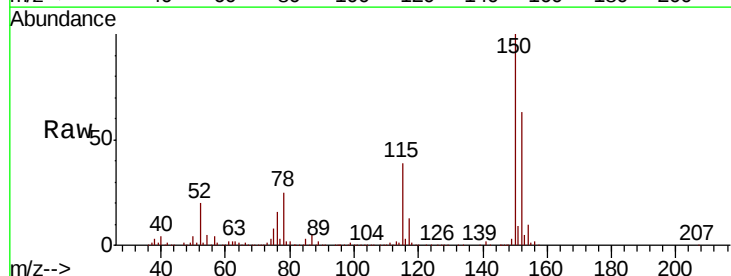


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

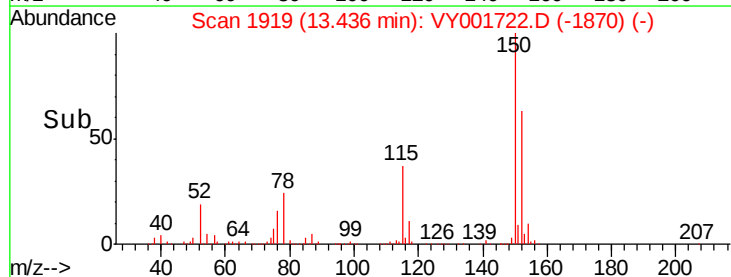
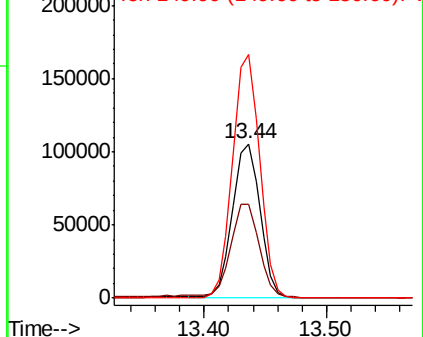


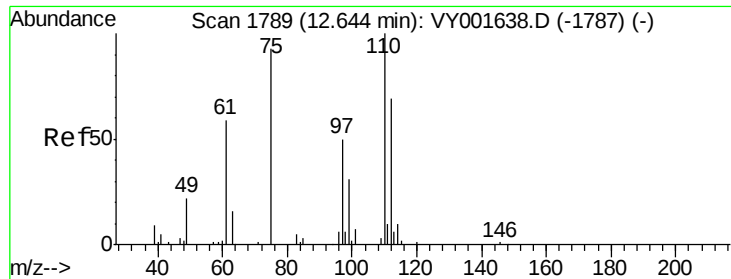
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. 0.00 min
Lab File: VY001722.D
Acq: 20 Feb 2020 14:28

Tgt Ion:152 Resp: 165149
Ion Ratio Lower Upper
152 100
115 62.9 31.4 94.2
150 154.4 0.0 407.2



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





#76

1,2,3-Trichloropropane

Concen: 1.776 ug/l

RT: 12.75 min Scan# 1807

Delta R.T. 0.11 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

Instrument :

MSVOA_Y

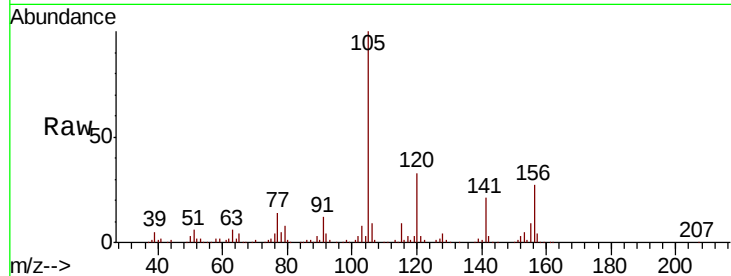
ClientSampleId :

Tot Ion: 75 Resp: 3365

Ion Ratio Lower Upper

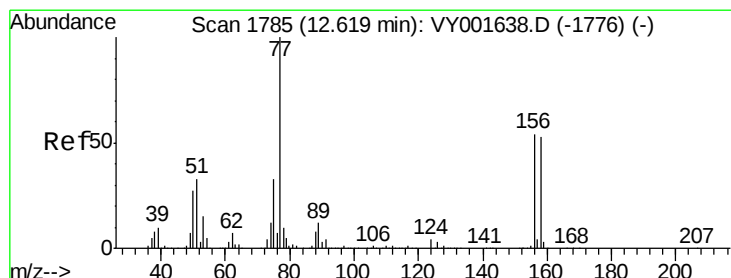
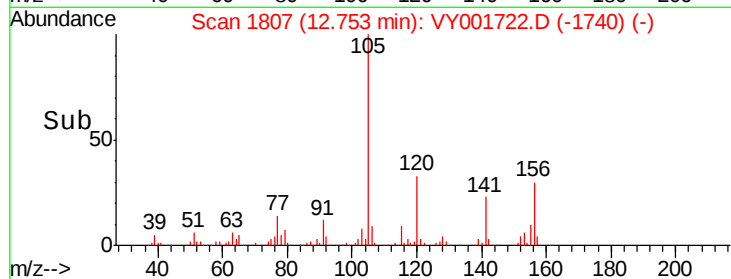
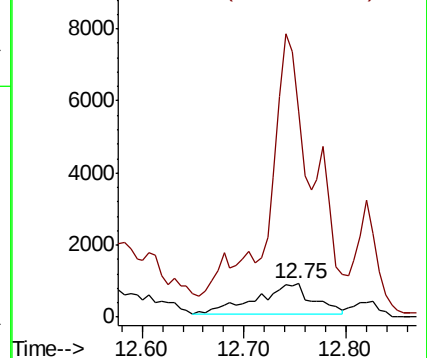
75 100

77 311.2 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: 60.989 ug/l

RT: 12.53 min Scan# 1771

Delta R.T. -0.09 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

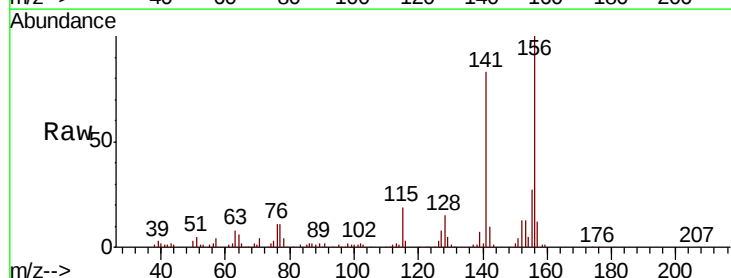
Tgt Ion: 156 Resp: 166341

Ion Ratio Lower Upper

156 100

77 0.0 110.1 330.1#

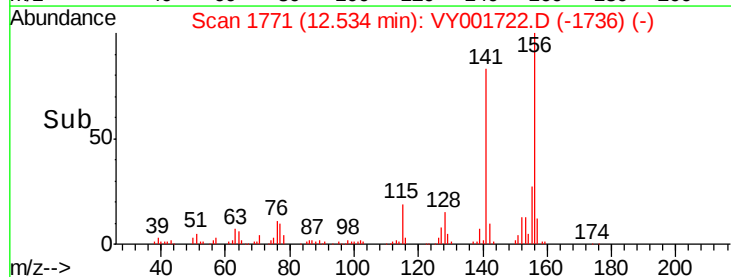
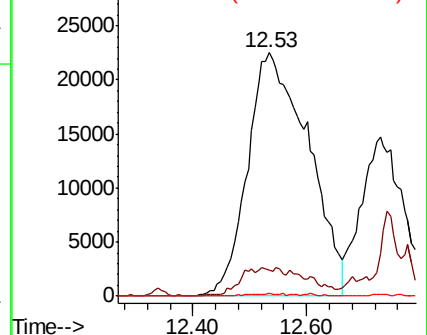
158 0.0 47.9 143.7#

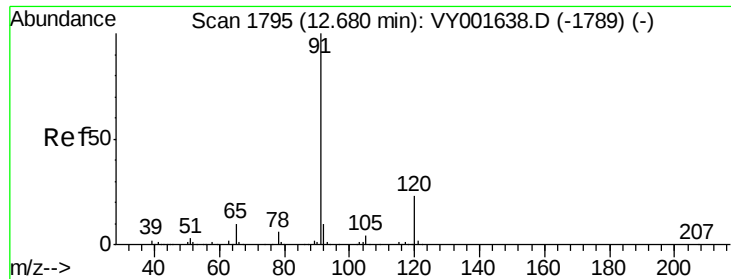


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 2.040 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

Instrument :

MSVOA_Y

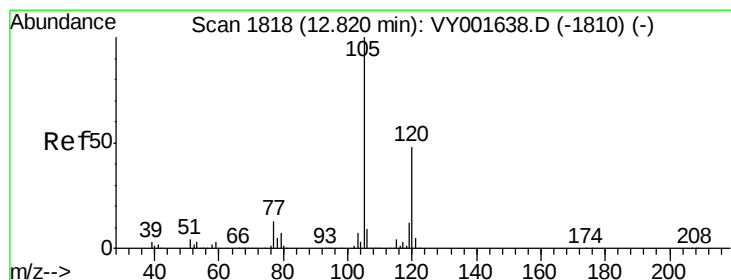
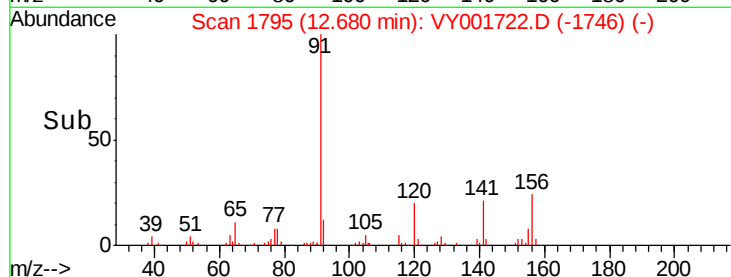
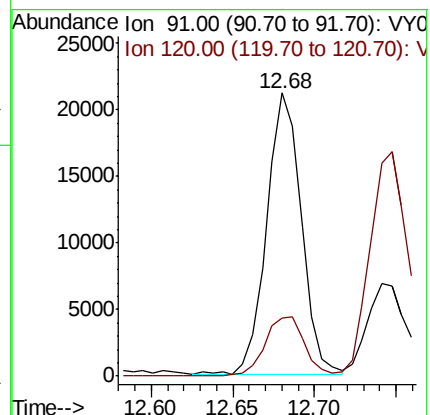
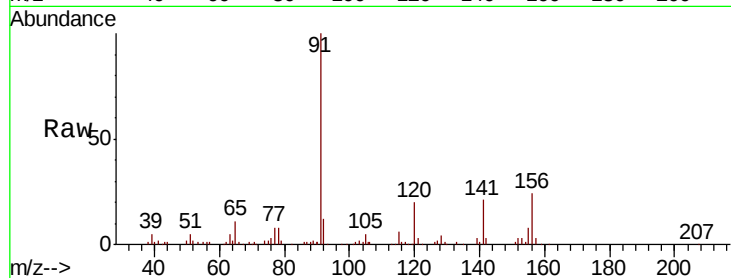
ClientSampleId :

Tot Ion: 91 Resp: 31265

Ion Ratio Lower Upper

91 100

120 24.1 11.1 33.1



#80

1,3,5-Trimethylbenzene

Concen: 3.139 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VY001722.D

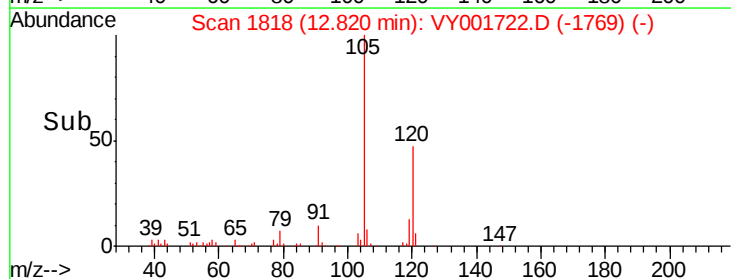
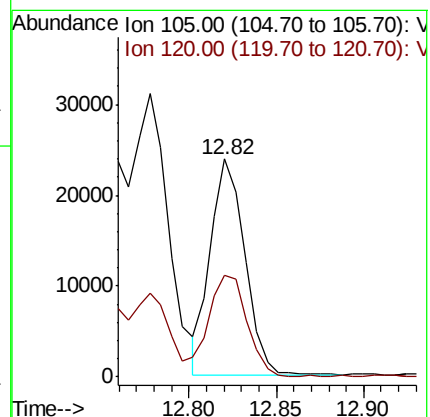
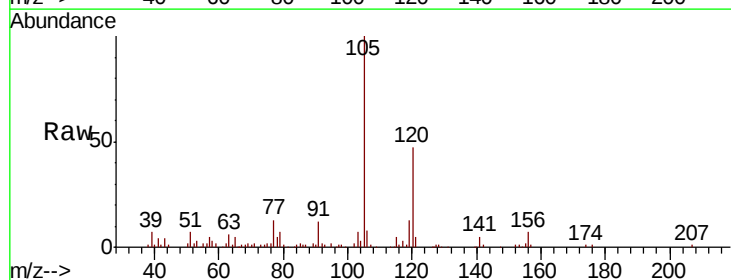
Acq: 20 Feb 2020 14:28

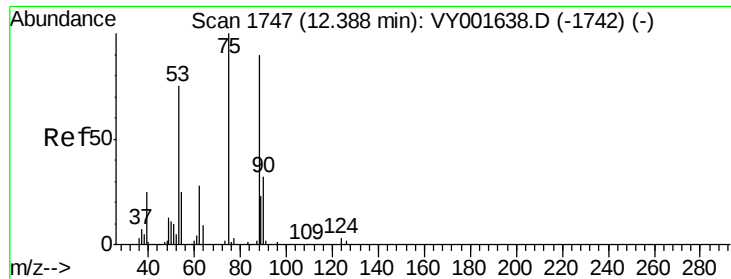
Tgt Ion: 105 Resp: 32690

Ion Ratio Lower Upper

105 100

120 53.1 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 82.928 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

Instrument :

MSVOA_Y

ClientSampleId :

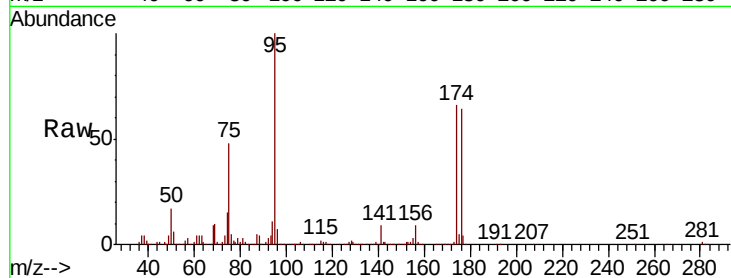
Tot Ion: 75 Resp: 82810

Ion Ratio Lower Upper

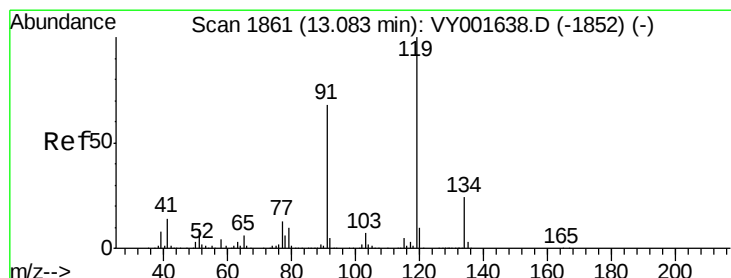
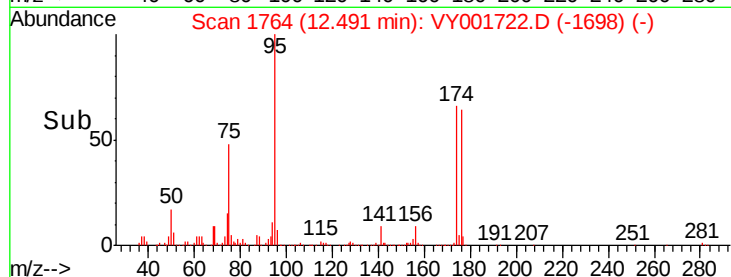
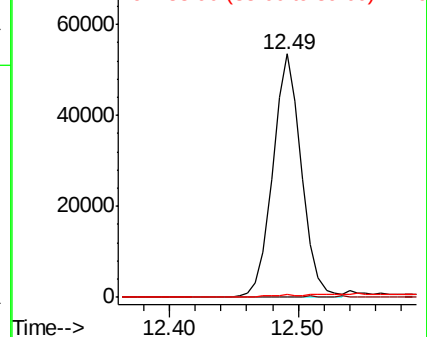
75 100

53 0.2 64.5 96.7#

89 0.8 36.3 54.5#



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



#83

tert-Butylbenzene

Concen: 1.899 ug/l

RT: 13.13 min Scan# 1868

Delta R.T. 0.04 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

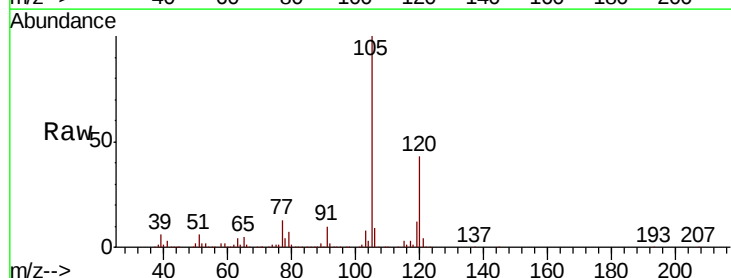
Tgt Ion: 119 Resp: 16539

Ion Ratio Lower Upper

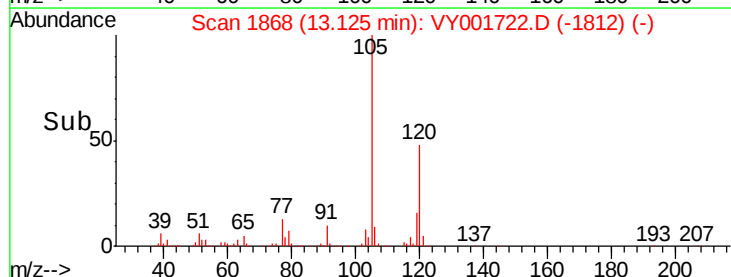
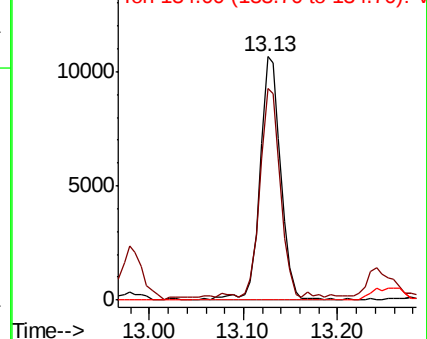
119 100

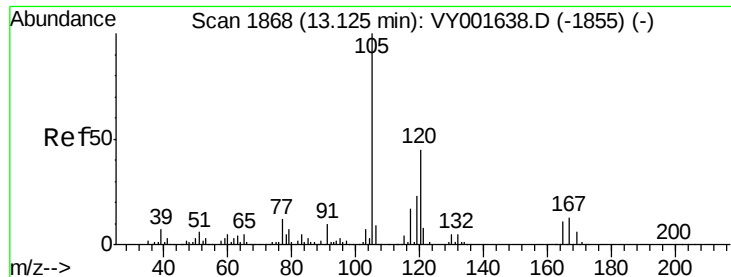
91 82.9 33.5 100.5

134 0.0 13.3 39.8#



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VY0
Ion 134.00 (133.70 to 134.70): V

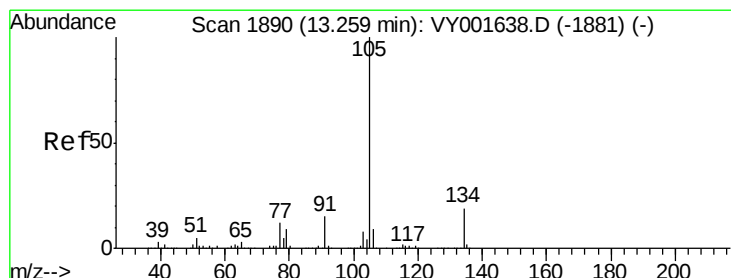
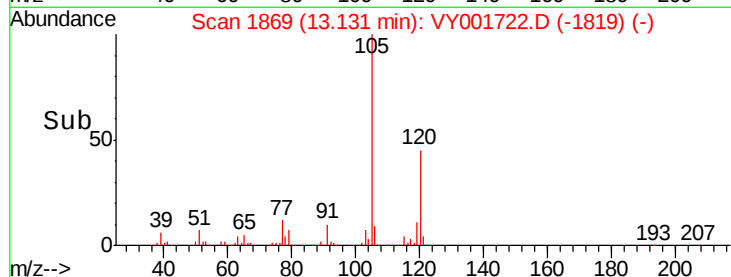
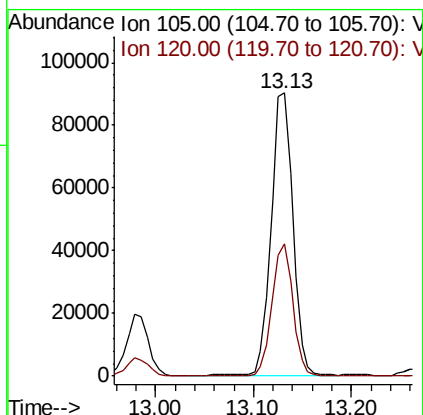
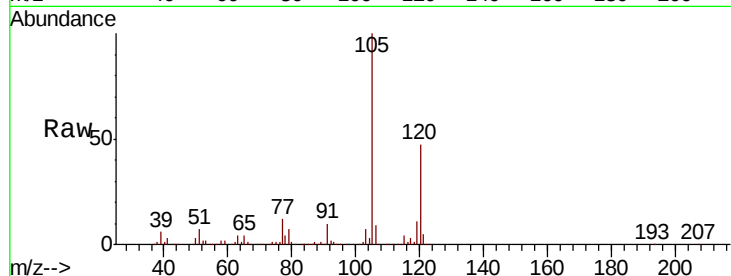




#84
1,2,4-Trimethylbenzene
Concen: 13.406 ug/l
RT: 13.13 min Scan# 1869
Delta R.T. 0.01 min
Lab File: VY001722.D
Acq: 20 Feb 2020 14:28

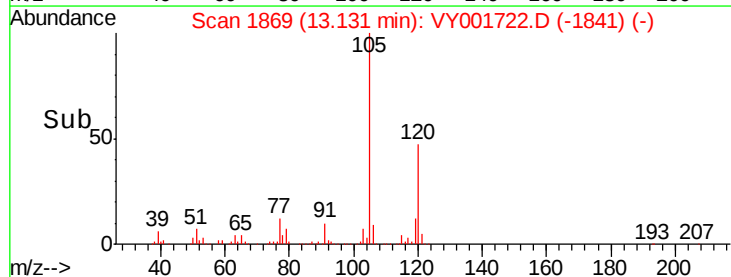
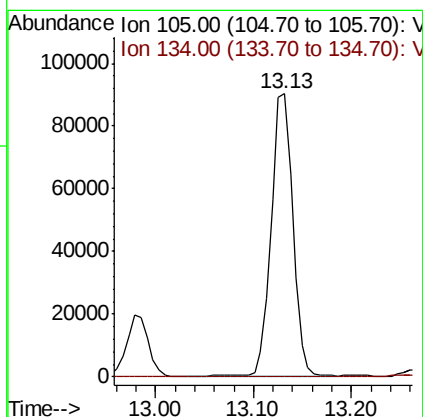
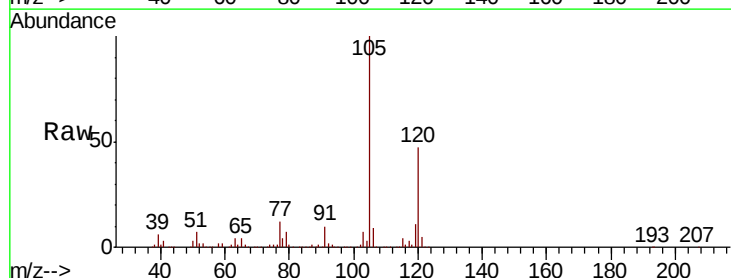
Instrument :
MSVOA_Y
ClientSampleId :

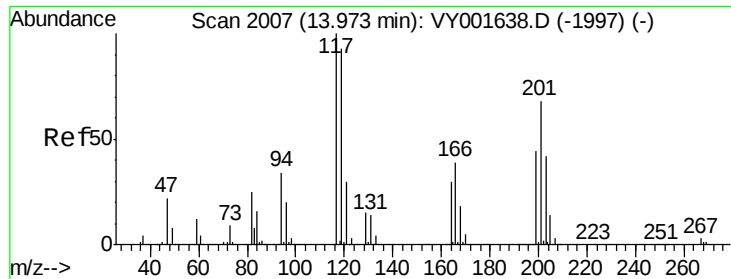
Tot Ion:105 Resp: 139196
Ion Ratio Lower Upper
105 100
120 44.7 22.4 67.3



#85
sec-Butylbenzene
Concen: 10.866 ug/l
RT: 13.13 min Scan# 1869
Delta R.T. -0.13 min
Lab File: VY001722.D
Acq: 20 Feb 2020 14:28

Tgt Ion:105 Resp: 139196
Ion Ratio Lower Upper
105 100
134 0.0 9.8 29.3#





#90

Hexachloroethane

Concen: 1.167 ug/l

RT: 13.98 min Scan# 2008

Delta R.T. 0.01 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

Instrument :

MSVOA_Y

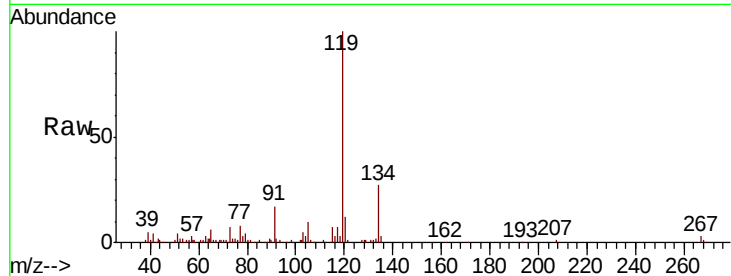
ClientSampleId :

Tot Ion:117 Resp: 2446

Ion Ratio Lower Upper

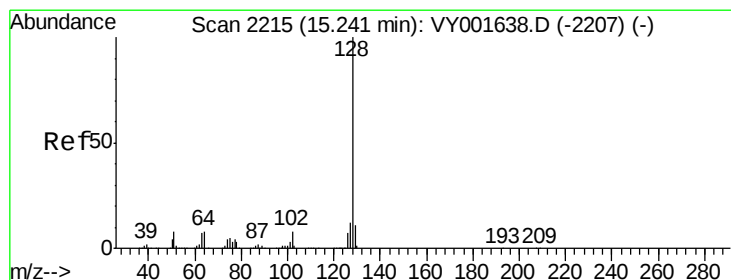
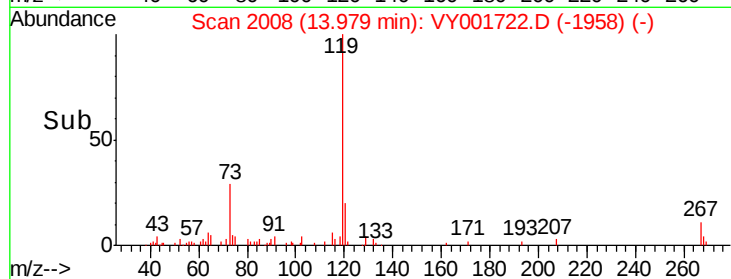
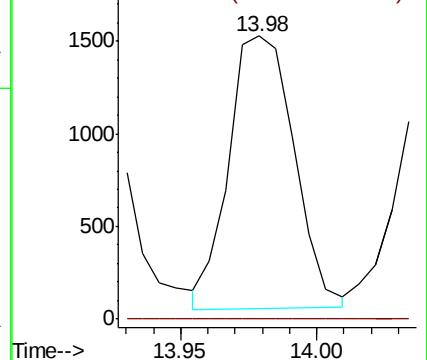
117 100

201 0.0 32.5 97.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 13.619 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VY001722.D

Acq: 20 Feb 2020 14:28

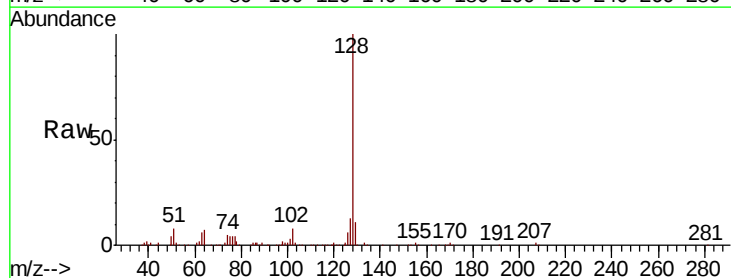
Tgt Ion:128 Resp: 101580

Ion Ratio Lower Upper

128 100

127 12.9 9.9 14.9

129 11.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

