

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY091319\
 Data File : VY000035.D
 Acq On : 13 Sep 2019 10:31
 Operator : SY/MD
 Sample : VY0913SBL02
 Misc : 5.00g/5.00ml/MSVOA Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 13 12:40:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y091219S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 12 16:17:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.79	168	130179	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	255158	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	213104	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	89754	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.14	65	71216	50.79	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.58%	
35) Dibromofluoromethane	7.72	113	68258	46.63	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.26%	
50) Toluene-d8	10.18	98	291375	49.44	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.88%	
62) 4-Bromofluorobenzene	12.48	95	99897	46.63	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.26%	

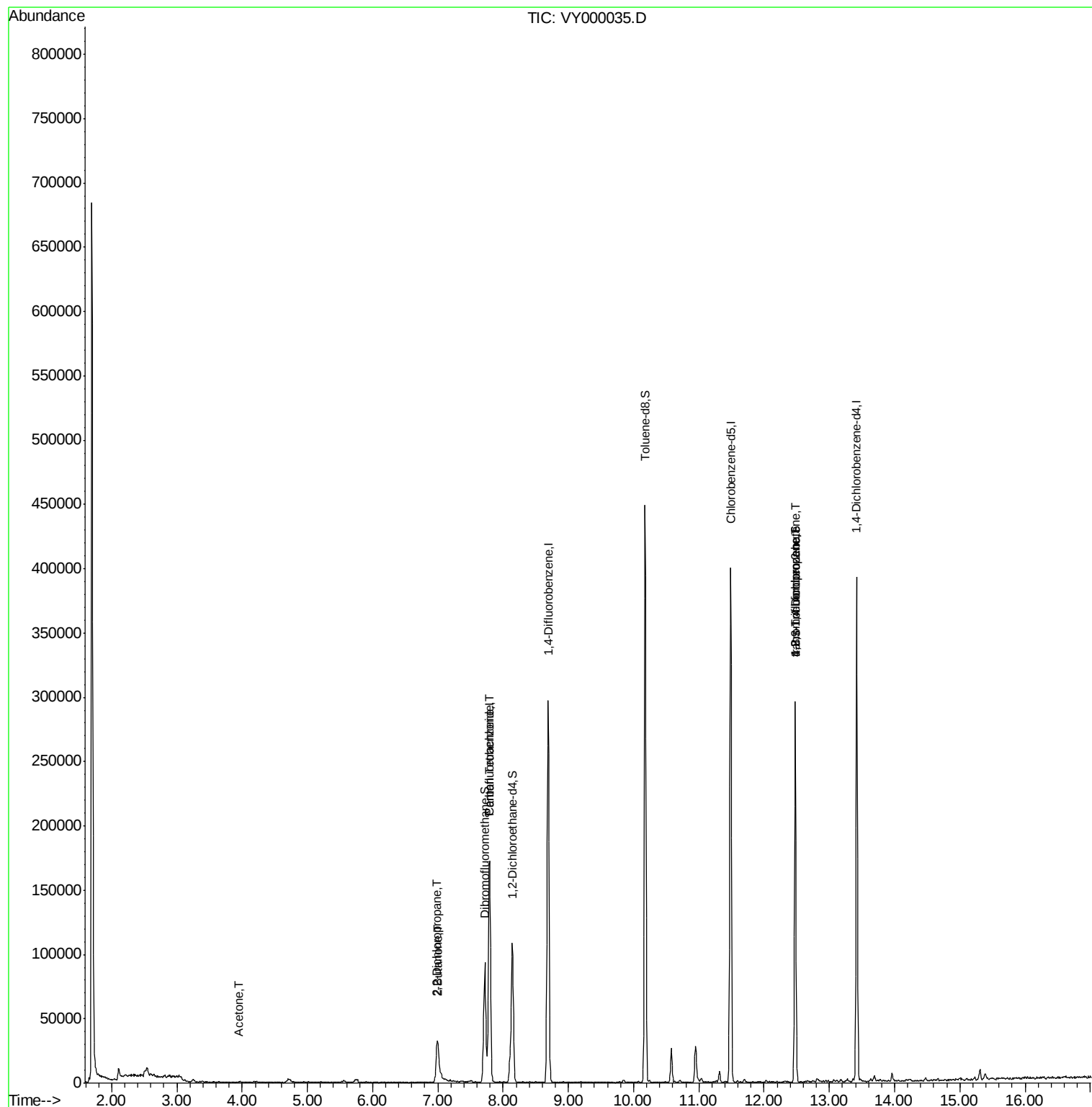
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	5895	Below Cal		95
5) Bromomethane	2.64	94	247	Below Cal		89
13) Acrolein	3.73	56	36	Below Cal	#	14
16) Acetone	3.95	43	871	2.240	ug/l	87
17) Carbon Disulfide	4.17	76	215	Below Cal	#	74
20) Methylene Chloride	4.71	84	1543	Below Cal	#	78
25) 2-Butanone	7.00	43	1870	2.959	ug/l	45
26) 2,2-Dichloropropane	6.98	77	2864	1.265	ug/l	51
31) Cyclohexane	7.79	56	3845	Below Cal	#	11
38) Carbon Tetrachloride	7.79	117	13393	7.574	ug/l	19
76) 1,2,3-Trichloropropane	12.48	75	48585	38.973	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.48	75	48585	77.304	ug/l	18
92) 1,2-Dibromo-3-Chloropropan	14.35	75	153	Below Cal	#	3

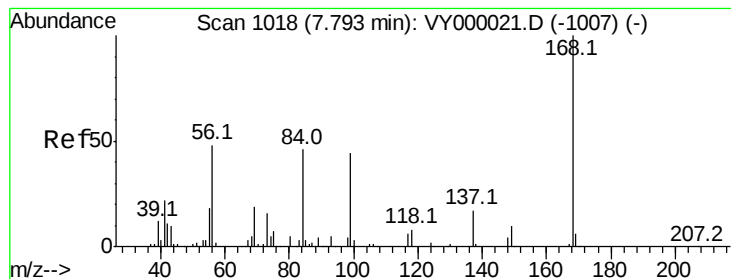
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VY000035.D

Acq: 13 Sep 2019 10:31

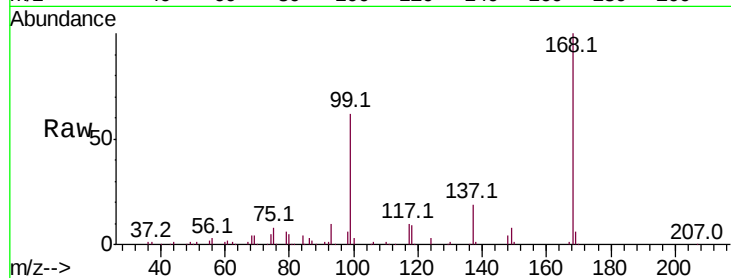
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 130179

Ion Ratio Lower Upper

168 100

99 61.5 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): VY000035.D (-969) (-)

Ion 98.90 (98.60 to 99.60): VY000035.D (-969) (-)

7.79

60000

50000

40000

30000

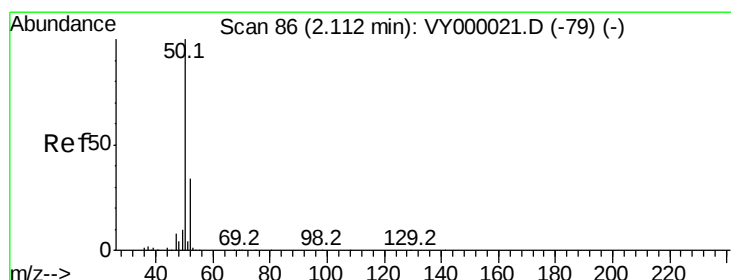
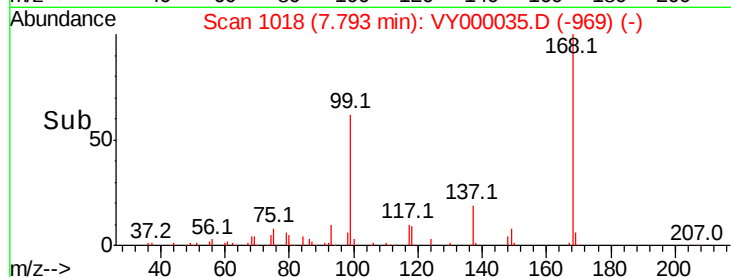
20000

10000

0

Time-->

7.70 7.80 7.90



#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY000035.D

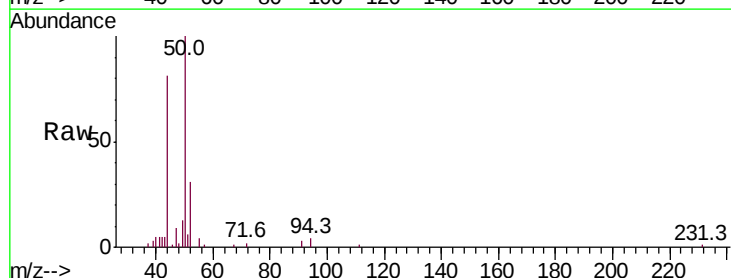
Acq: 13 Sep 2019 10:31

Tgt Ion: 50 Resp: 5895

Ion Ratio Lower Upper

50 100

52 31.0 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VY000035.D (-37) (-)

Ion 51.90 (51.60 to 52.60): VY000035.D (-37) (-)

2.11

4000

3000

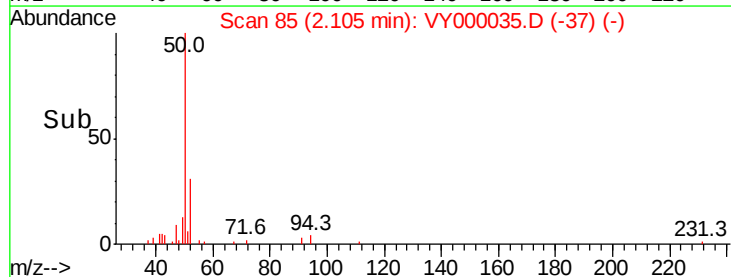
2000

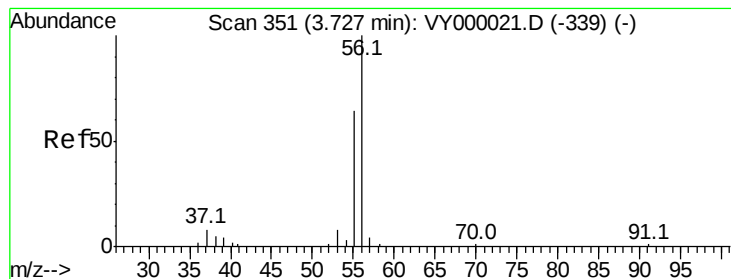
1000

0

Time-->

2.05 2.10 2.15





#13

Acrolein

Concen: Below Cal

RT: 3.73 min Scan# 351

Delta R.T. -0.00 min

Lab File: VY000035.D

Acq: 13 Sep 2019 10:31

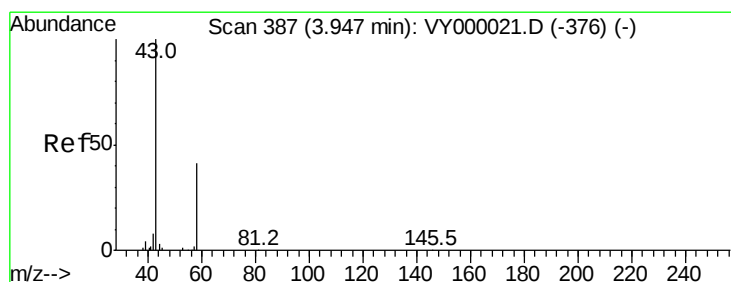
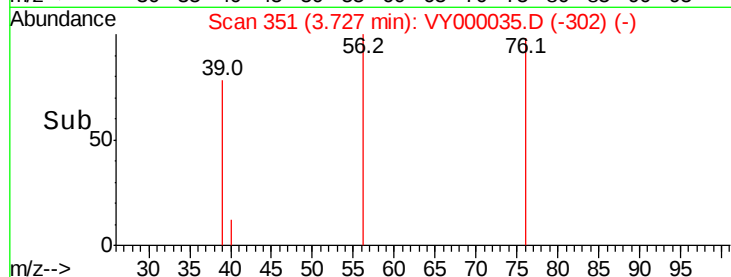
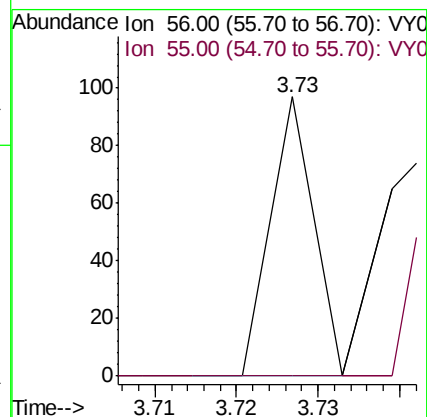
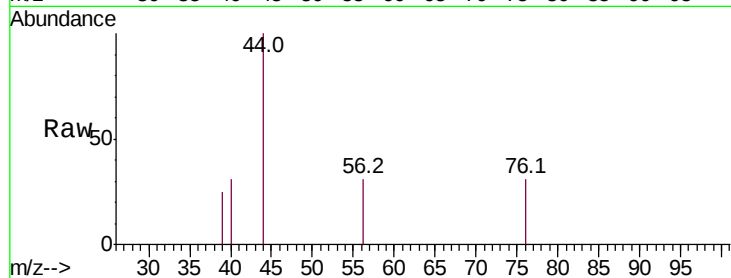
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 56 Resp: 36

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 2.240 ug/l

RT: 3.95 min Scan# 388

Delta R.T. 0.01 min

Lab File: VY000035.D

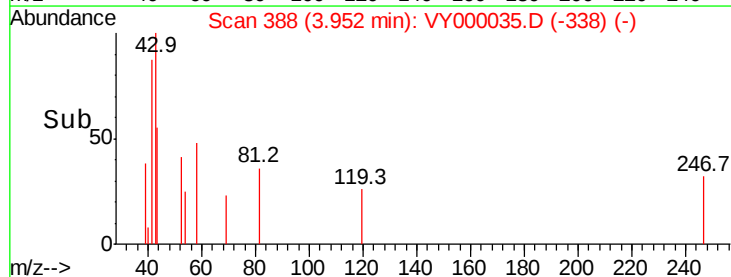
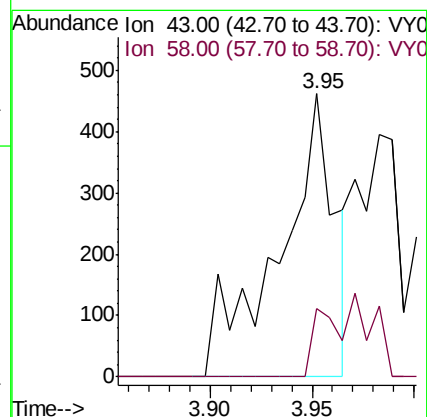
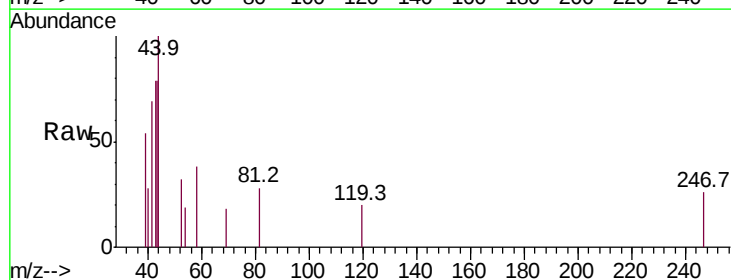
Acq: 13 Sep 2019 10:31

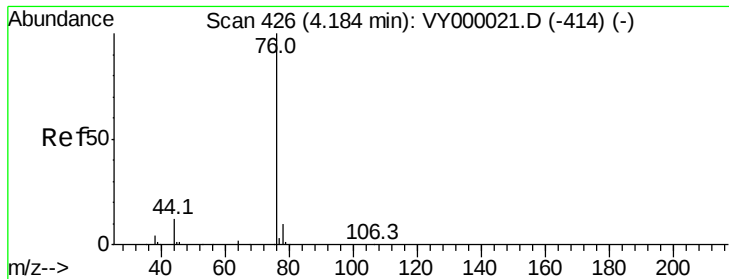
Tgt Ion: 43 Resp: 871

Ion Ratio Lower Upper

43 100

58 32.7 32.5 48.7

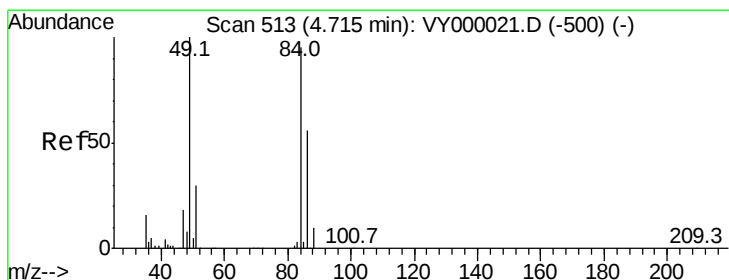
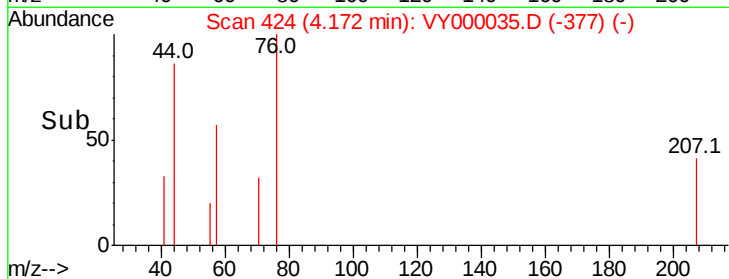
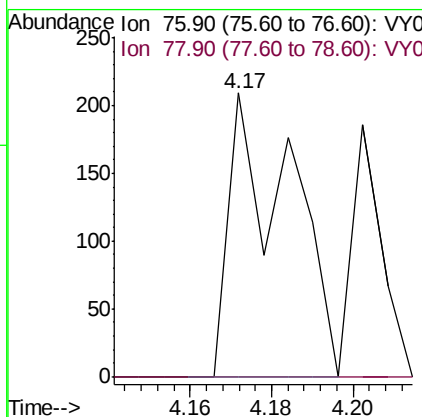
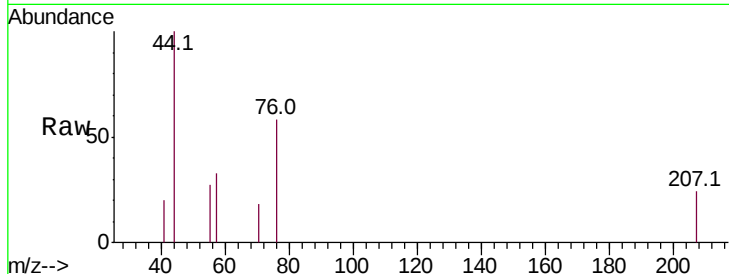




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.17 min Scan# 424
Delta R.T. -0.01 min
Lab File: VY000035.D
Acq: 13 Sep 2019 10:31

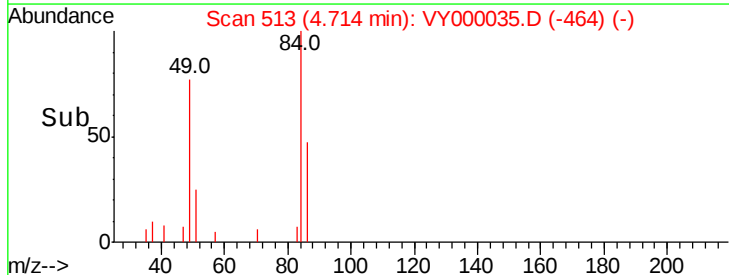
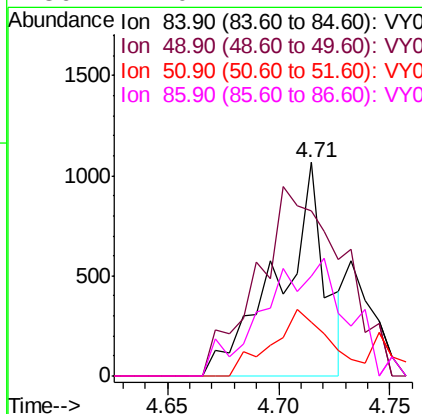
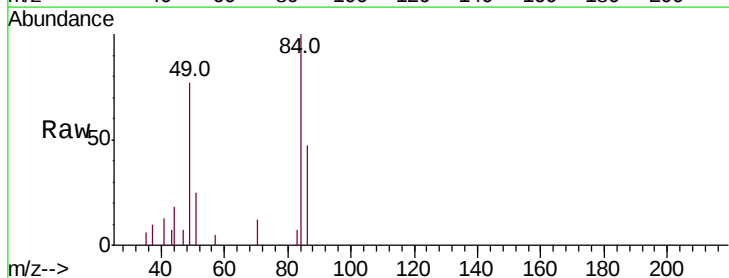
Instrument :
MSVOA_Y
ClientSampled :

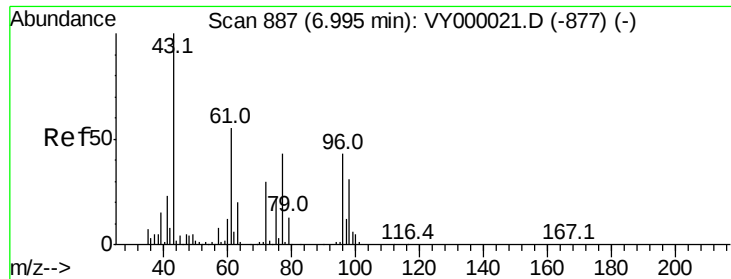
Tot Ion: 76 Resp: 215
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.71 min Scan# 513
Delta R.T. 0.00 min
Lab File: VY000035.D
Acq: 13 Sep 2019 10:31

Tgt Ion: 84 Resp: 1543
Ion Ratio Lower Upper
84 100
49 77.3 84.4 126.6#
51 25.1 25.4 38.0#
86 47.0 47.4 71.2#

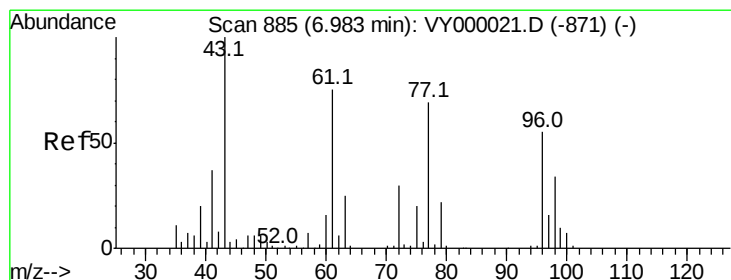
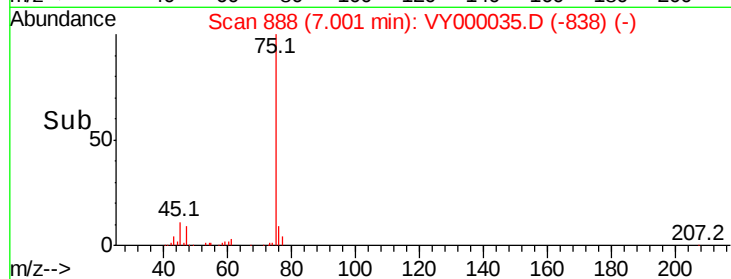
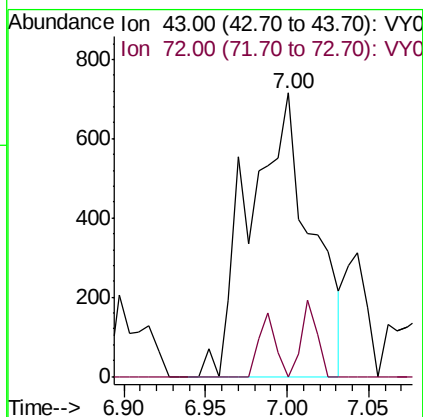
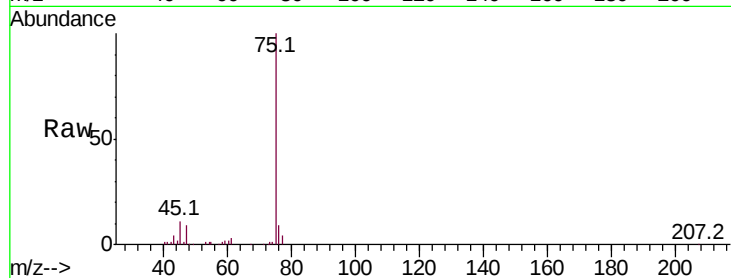




#25
 2-Butanone
 Concen: 2.959 ug/l
 RT: 7.00 min Scan# 888
 Delta R.T. 0.01 min
 Lab File: VY000035.D
 Acq: 13 Sep 2019 10:31

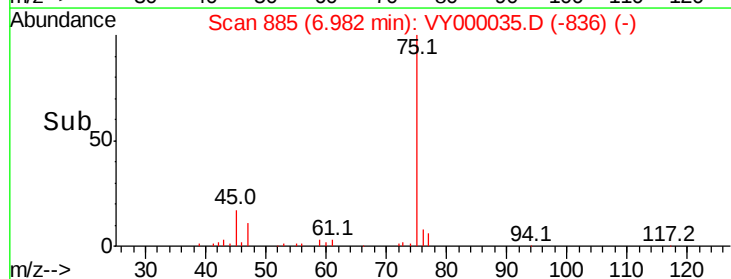
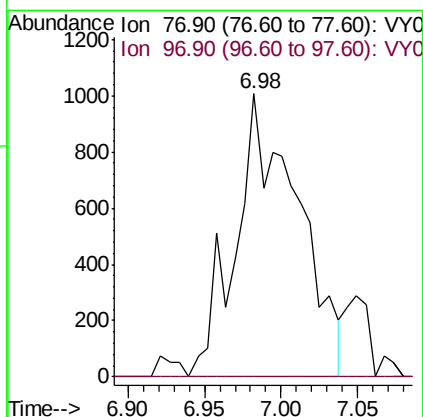
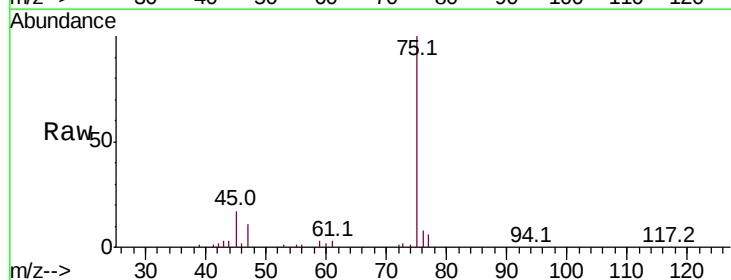
Instrument :
 MSVOA_Y
 ClientSampleId :

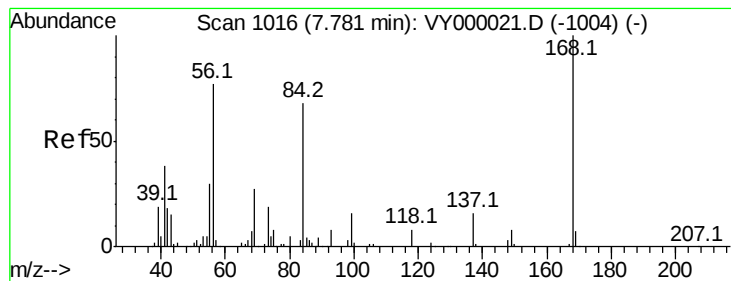
Tot Ion: 43 Resp: 1870
 Ion Ratio Lower Upper
 43 100
 72 0.0 24.1 36.1#



#26
 2,2-Dichloropropane
 Concen: 1.265 ug/l
 RT: 6.98 min Scan# 885
 Delta R.T. -0.00 min
 Lab File: VY000035.D
 Acq: 13 Sep 2019 10:31

Tgt Ion: 77 Resp: 2864
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.0 36.1#





#31

Cyclohexane

Concen: Below Cal

RT: 7.79 min Scan# 1017

Delta R.T. 0.01 min

Lab File: VY000035.D

Acq: 13 Sep 2019 10:31

Instrument :
MSVOA_Y
ClientSampled :

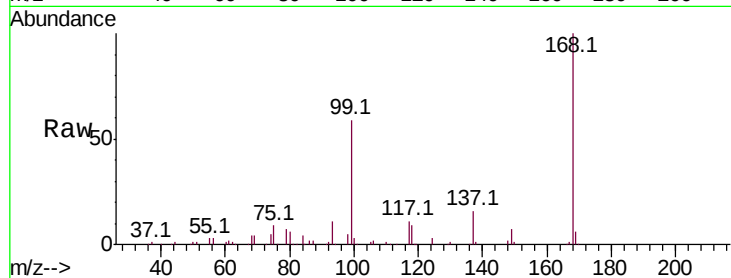
Tot Ion: 56 Resp: 3845

Ion Ratio Lower Upper

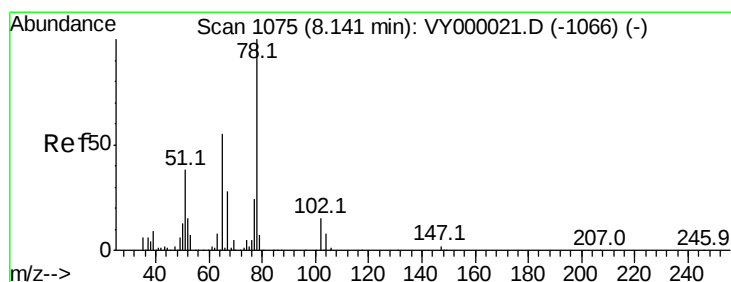
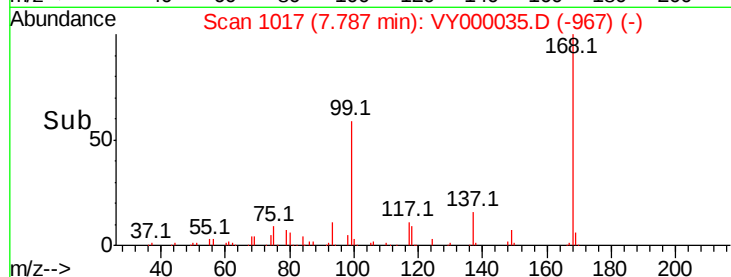
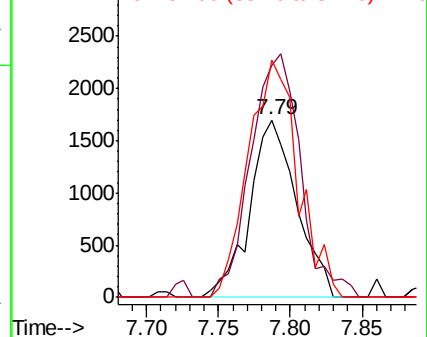
56 100

69 131.0 28.0 42.0#

84 142.8 70.4 105.6#



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: 50.785 ug/l

RT: 8.14 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VY000035.D

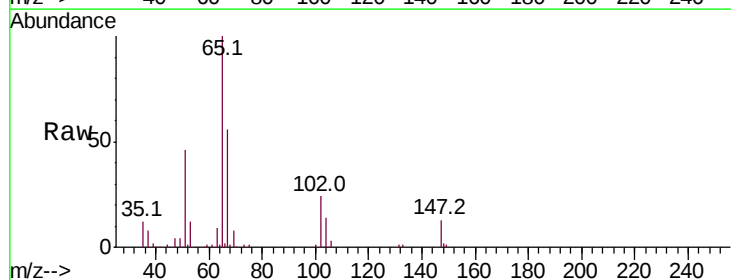
Acq: 13 Sep 2019 10:31

Tgt Ion: 65 Resp: 71216

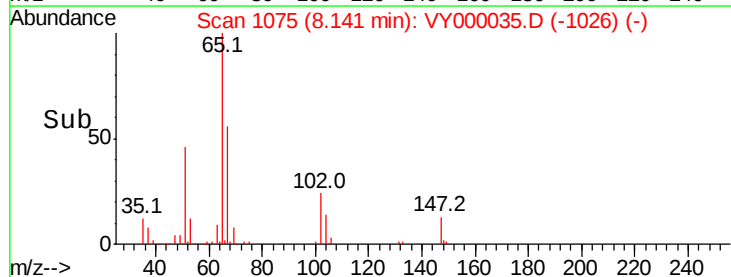
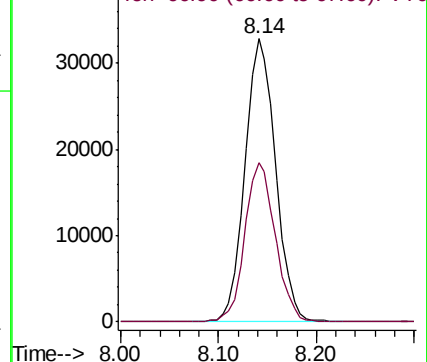
Ion Ratio Lower Upper

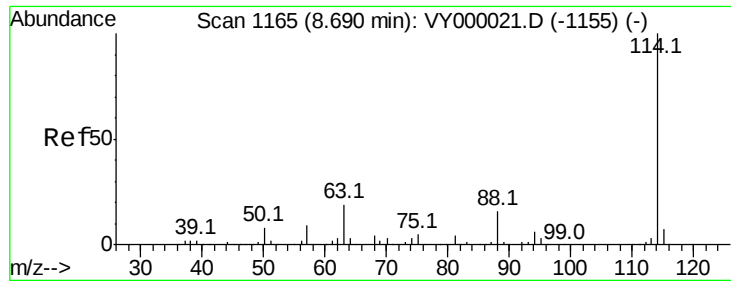
65 100

67 55.8 0.0 104.4



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

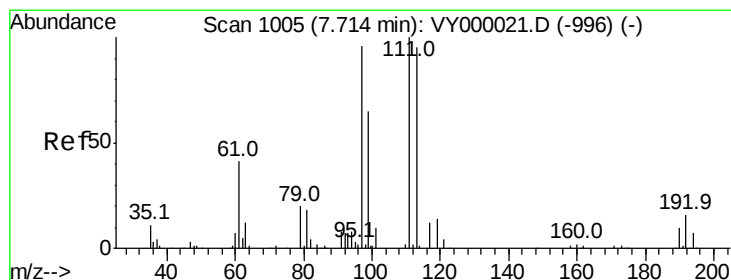
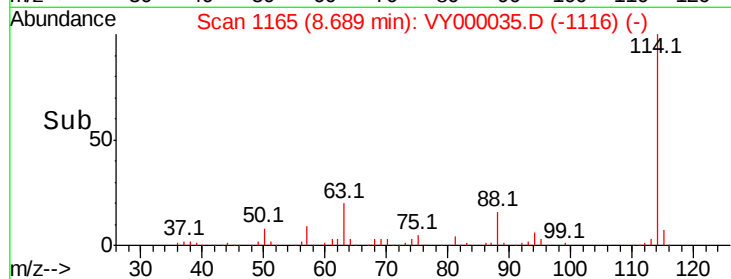
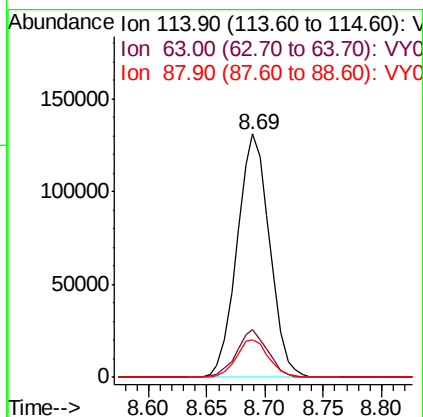
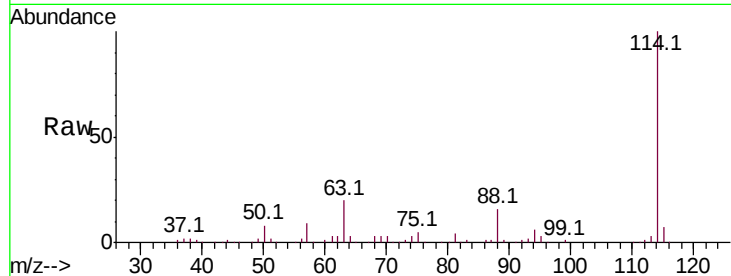




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VY000035.D
 Acq: 13 Sep 2019 10:31

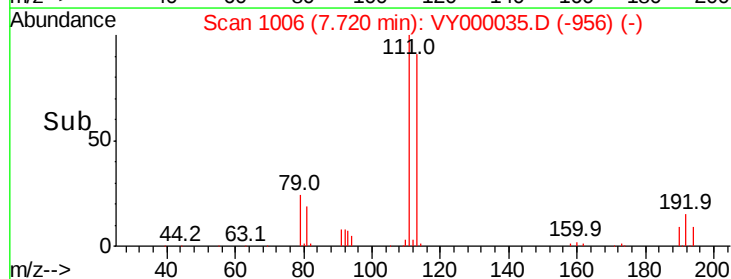
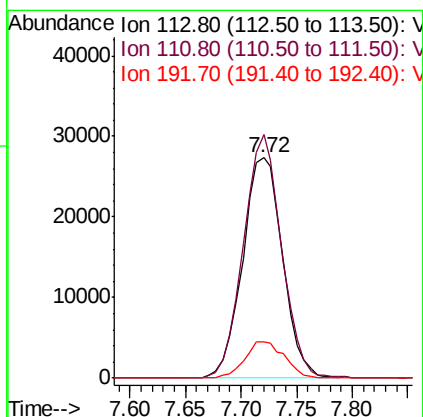
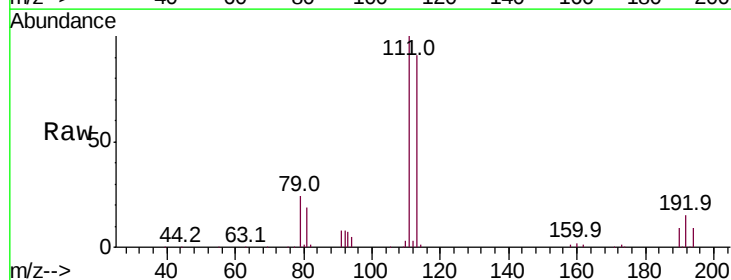
Instrument :
 MSVOA_Y
 ClientSampleId :

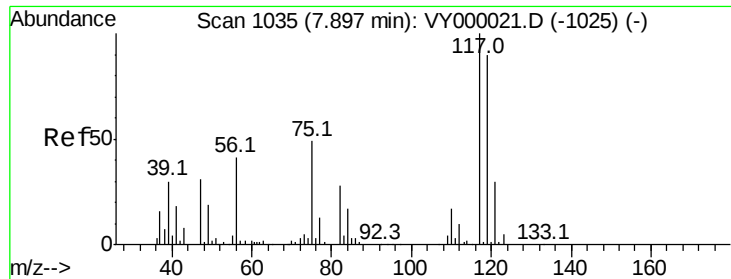
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	38.6
88	15.7	0.0	31.8



#35
 Dibromofluoromethane
 Concen: 46.630 ug/l
 RT: 7.72 min Scan# 1006
 Delta R.T. 0.01 min
 Lab File: VY000035.D
 Acq: 13 Sep 2019 10:31

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.4	83.9	125.9
192	16.4	14.5	21.7





#38

Carbon Tetrachloride

Concen: 7.574 ug/l

RT: 7.79 min Scan# 1017

Delta R.T. -0.11 min

Lab File: VY000035.D

Acq: 13 Sep 2019 10:31

Instrument :

MSVOA_Y

ClientSampleId :

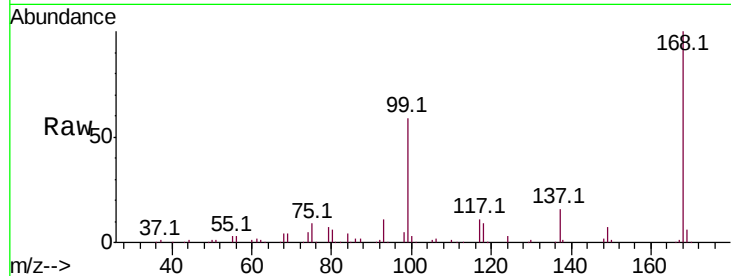
Tot Ion:117 Resp: 13393

Ion Ratio Lower Upper

117 100

119 5.7 72.1 108.1#

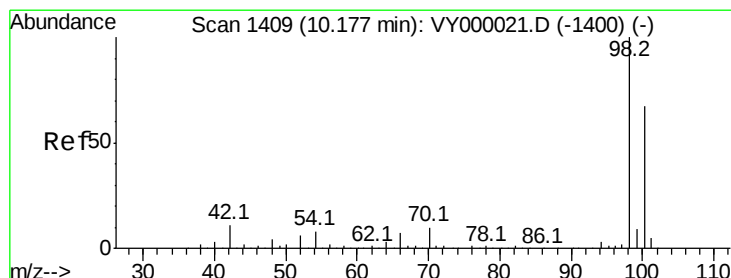
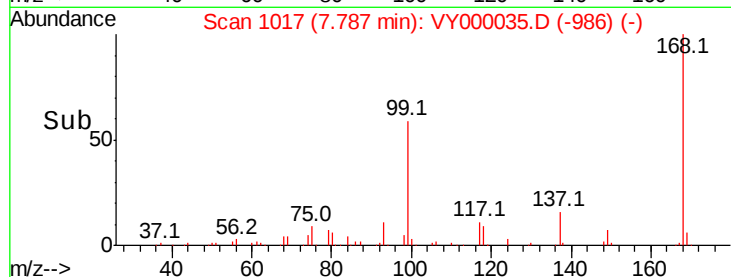
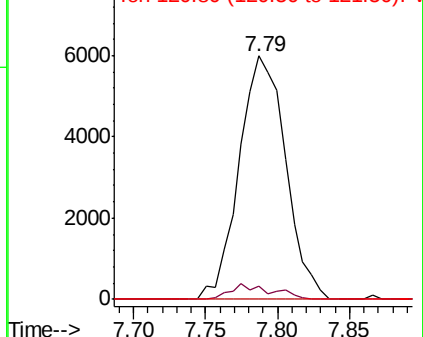
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.438 ug/l

RT: 10.18 min Scan# 1409

Delta R.T. -0.00 min

Lab File: VY000035.D

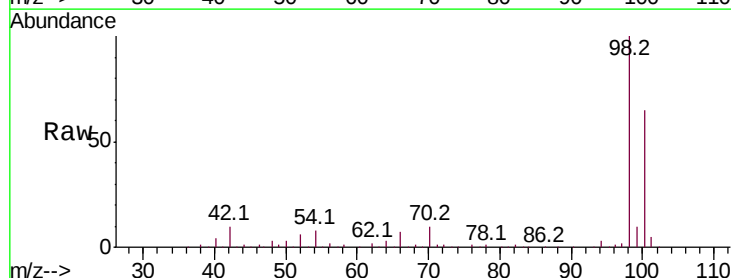
Acq: 13 Sep 2019 10:31

Tgt Ion: 98 Resp: 291375

Ion Ratio Lower Upper

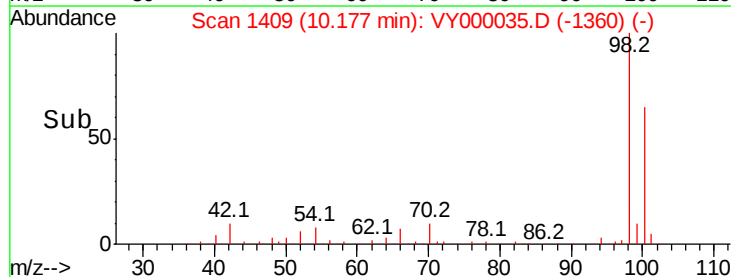
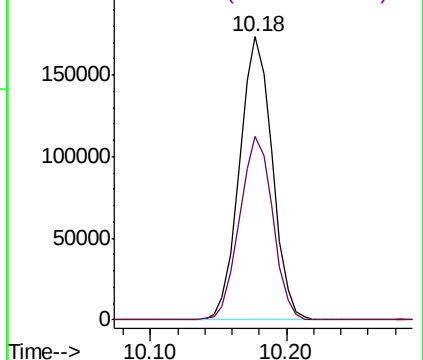
98 100

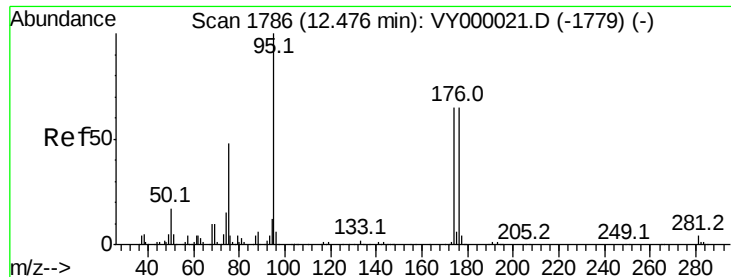
100 65.9 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#62

4-Bromofluorobenzene

Concen: 46.634 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.00 min

Lab File: VY000035.D

Acq: 13 Sep 2019 10:31

Instrument :

MSVOA_Y

ClientSampleId :

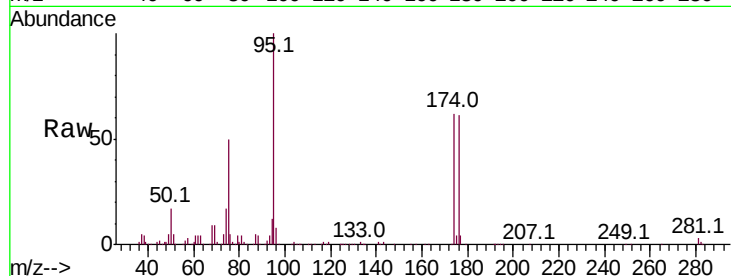
Tot Ion: 95 Resp: 99897

Ion Ratio Lower Upper

95 100

174 64.4 0.0 137.6

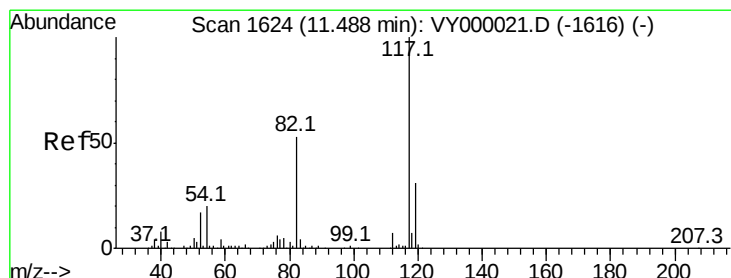
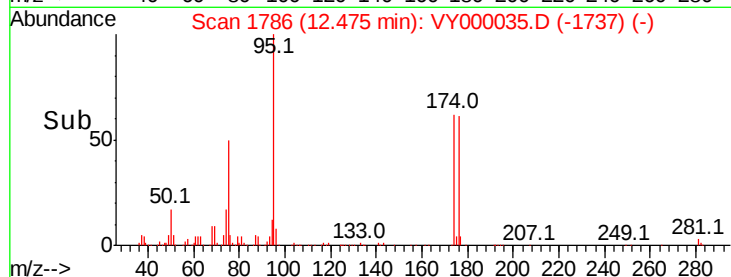
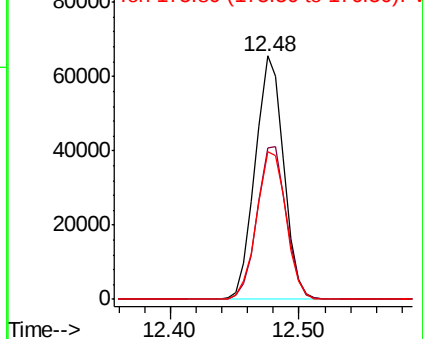
176 62.9 0.0 134.8



Abundance Ion 94.90 (94.60 to 95.60): VY000035.D (-1737) (-)

Ion 173.80 (173.50 to 174.50): VY000035.D (-1737) (-)

Ion 175.80 (175.50 to 176.50): VY000035.D (-1737) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1624

Delta R.T. -0.00 min

Lab File: VY000035.D

Acq: 13 Sep 2019 10:31

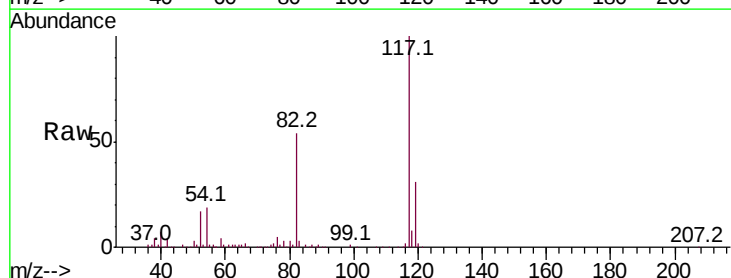
Tgt Ion: 117 Resp: 213104

Ion Ratio Lower Upper

117 100

82 53.7 42.5 63.7

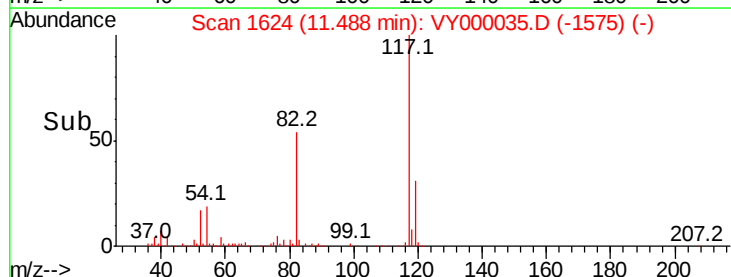
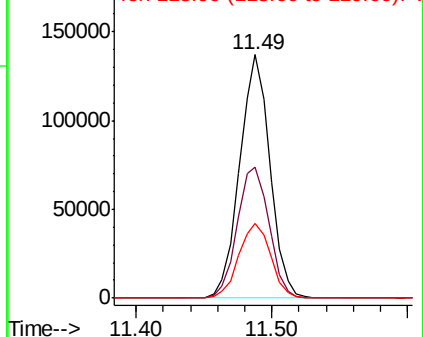
119 30.6 25.1 37.7

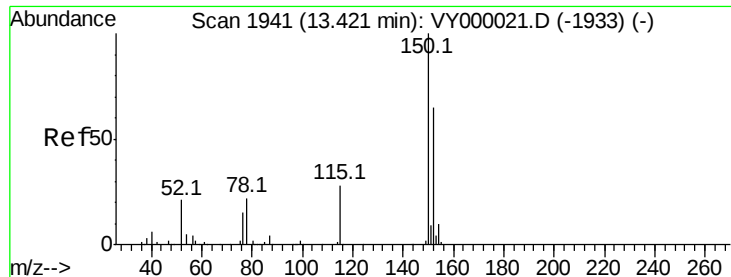


Abundance Ion 116.90 (116.60 to 117.60): VY000035.D (-1575) (-)

Ion 82.00 (81.70 to 82.70): VY000035.D (-1575) (-)

Ion 118.90 (118.60 to 119.60): VY000035.D (-1575) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VY000035.D

Acq: 13 Sep 2019 10:31

Instrument :

MSVOA_Y

ClientSampleId :

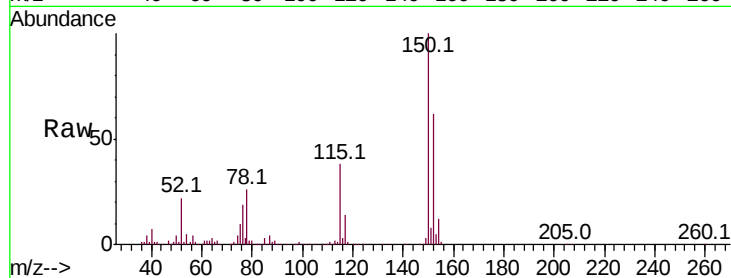
Tot Ion:152 Resp: 89754

Ion Ratio Lower Upper

152 100

115 62.4 29.4 88.2

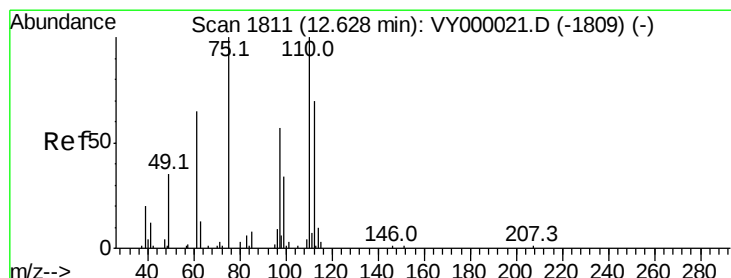
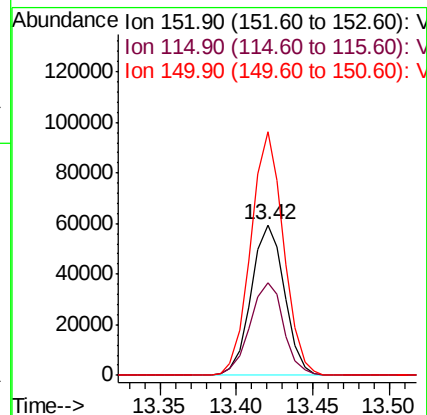
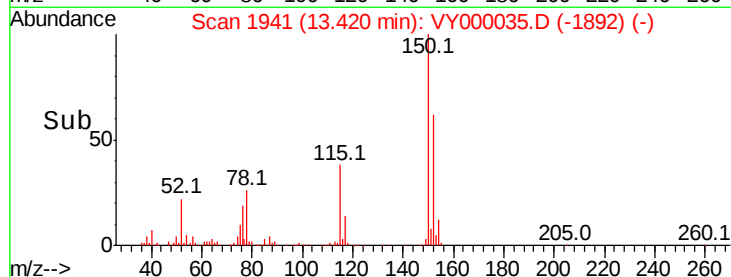
150 159.8 0.0 349.0



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: 38.973 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.15 min

Lab File: VY000035.D

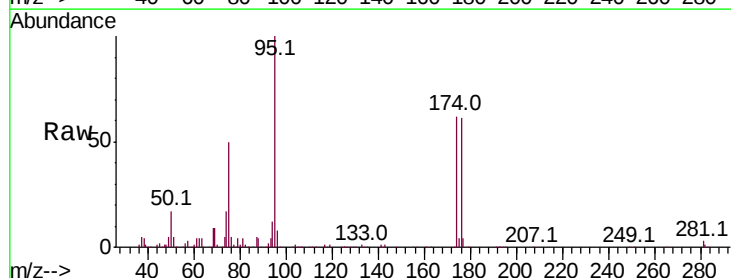
Acq: 13 Sep 2019 10:31

Tgt Ion: 75 Resp: 48585

Ion Ratio Lower Upper

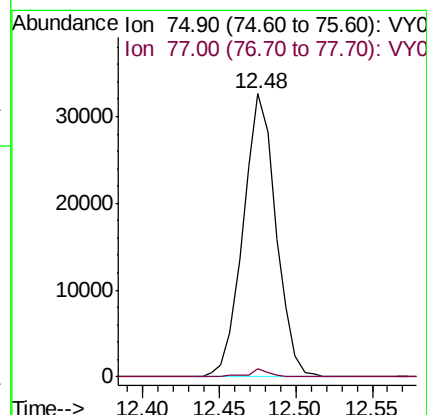
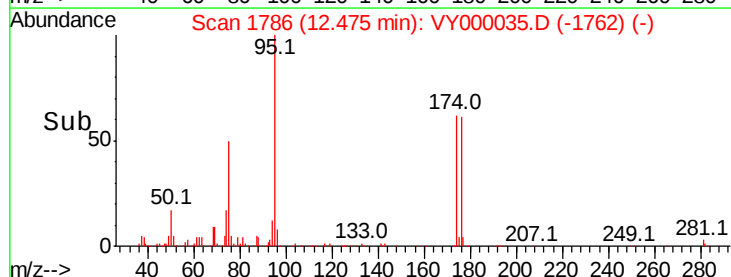
75 100

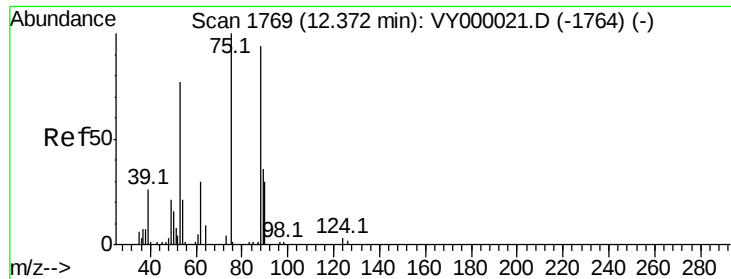
77 2.0 0.0 0.0#



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: 77.304 ug/l

RT: 12.48 min Scan# 1766

Delta R.T. 0.10 min

Lab File: VY000035.D

Acq: 13 Sep 2019 10:31

Instrument :

MSVOA_Y

ClientSampleId :

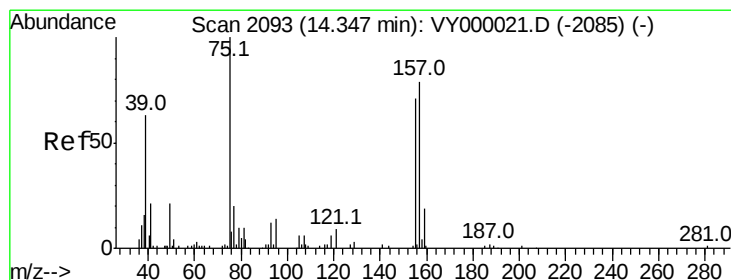
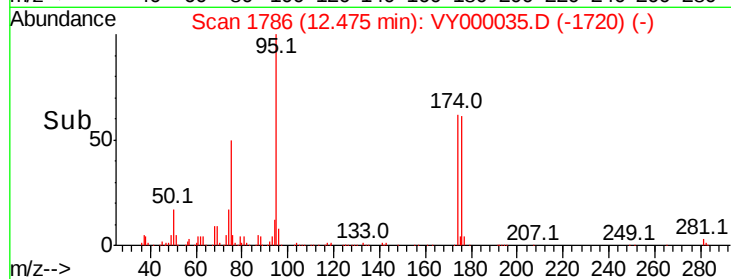
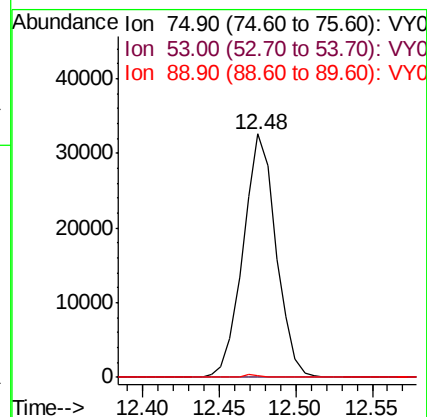
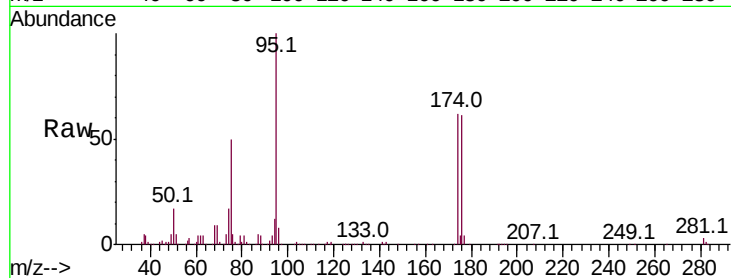
Tot Ion: 75 Resp: 48585

Ion Ratio Lower Upper

75 100

53 0.0 64.2 96.2#

89 0.5 35.5 53.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.35 min Scan# 2094

Delta R.T. 0.01 min

Lab File: VY000035.D

Acq: 13 Sep 2019 10:31

Tgt Ion: 75 Resp: 153

Ion Ratio Lower Upper

75 100

155 0.0 41.8 125.3#

157 0.0 51.3 153.9#

