

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY091319\
 Data File : VY000036.D
 Acq On : 13 Sep 2019 10:54
 Operator : SY/MD
 Sample : VY0913SBL03
 Misc : 5.00g/5.00ml/MSVOA Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 13 12:40:29 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	122187	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	243204	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	205864	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	87108	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	69951	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
35) Dibromofluoromethane	7.72	113	70295	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
50) Toluene-d8	10.18	98	291869	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
62) 4-Bromofluorobenzene	12.48	95	101399	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	

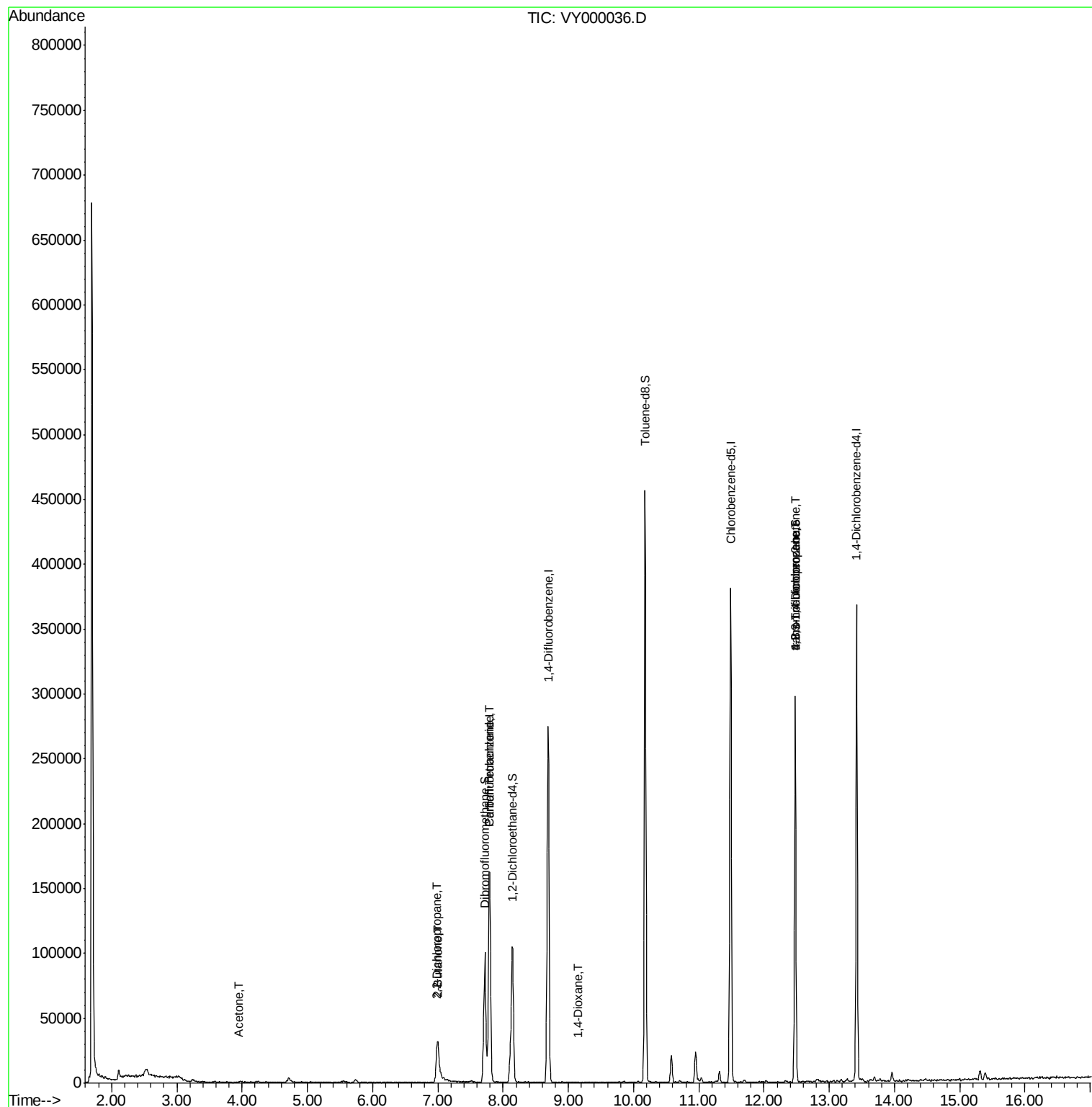
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	5369	Below Cal	#	86
5) Bromomethane	2.60	94	85	Below Cal	#	2
13) Acrolein	3.78	56	89	Below Cal	#	55
16) Acetone	3.95	43	543	1.488	ug/l	96
20) Methylene Chloride	4.71	84	2469	Below Cal	#	71
25) 2-Butanone	6.99	43	1118	1.885	ug/l #	45
26) 2,2-Dichloropropane	6.98	77	2937	1.382	ug/l #	51
31) Cyclohexane	7.79	56	3178	Below Cal	#	1
38) Carbon Tetrachloride	7.79	117	12944	7.680	ug/l #	19
49) 1,4-Dioxane	9.15	88	42	2.411	ug/l #	1
76) 1,2,3-Trichloropropane	12.48	75	47842	39.542	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	47842	78.434	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.33	75	101	Below Cal	#	3

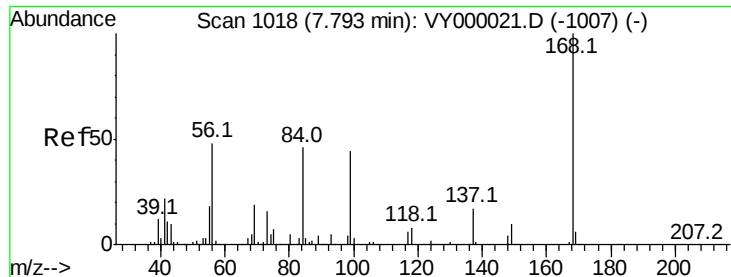
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY000036.D

Acq: 13 Sep 2019 10:54

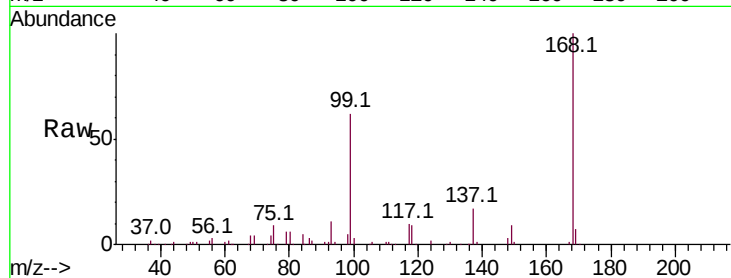
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 122187

Ion Ratio Lower Upper

168 100

99 61.6 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): VY000036.D (-969) (-)

Ion 98.90 (98.60 to 99.60): VY000036.D (-969) (-)

7.79

60000

50000

40000

30000

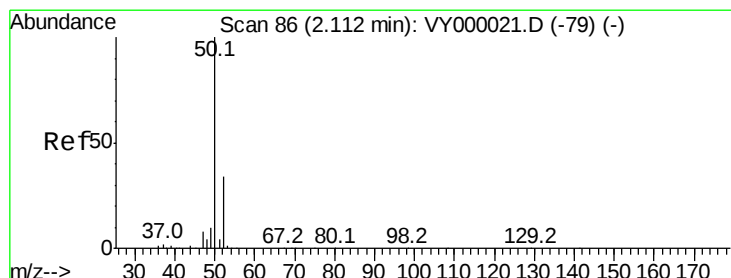
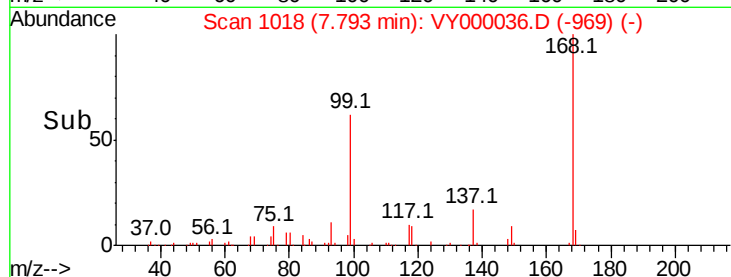
20000

10000

0

7.70 7.75 7.80 7.85 7.90

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY000036.D

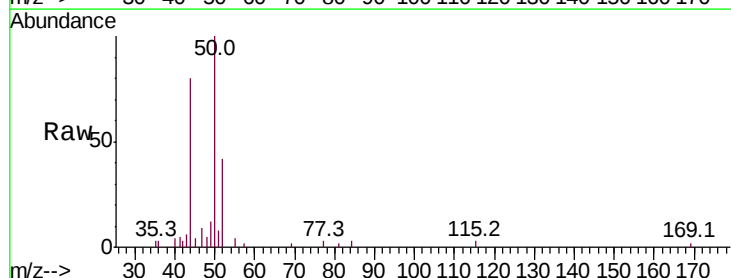
Acq: 13 Sep 2019 10:54

Tgt Ion: 50 Resp: 5369

Ion Ratio Lower Upper

50 100

52 41.6 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VY000036.D (-37) (-)

Ion 51.90 (51.60 to 52.60): VY000036.D (-37) (-)

2.11

3000

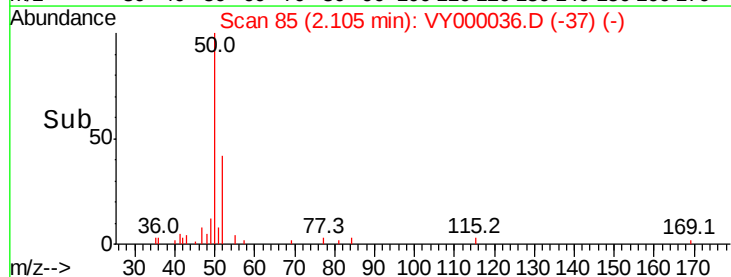
2000

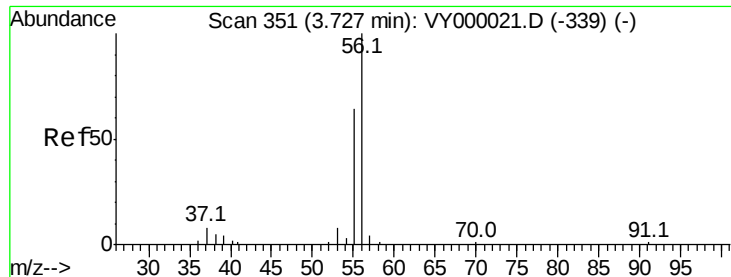
1000

0

2.05 2.10 2.15

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.78 min Scan# 359

Delta R.T. 0.05 min

Lab File: VY000036.D

Acq: 13 Sep 2019 10:54

Instrument :

MSVOA_Y

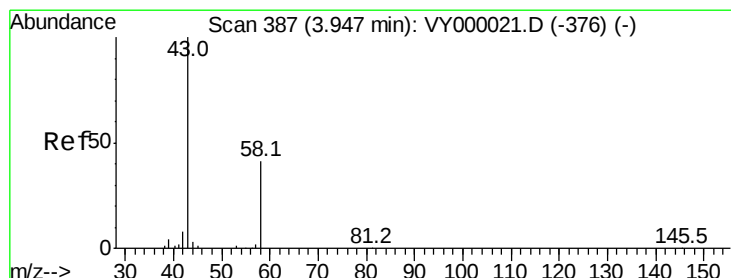
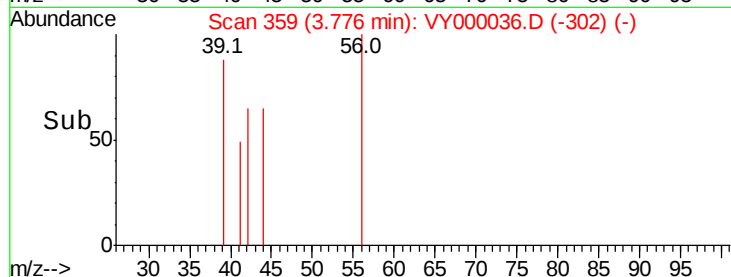
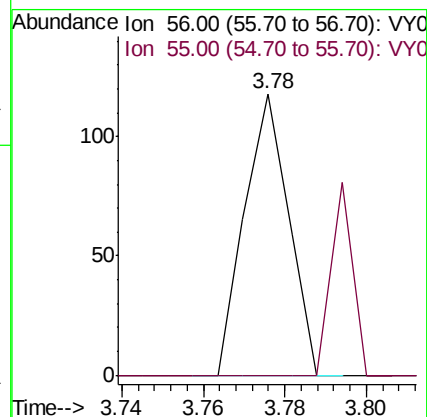
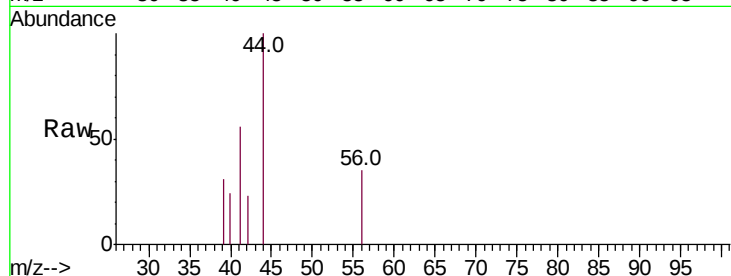
ClientSampled :

Tot Ion: 56 Resp: 89

Ion Ratio Lower Upper

56 100

55 33.7 56.7 85.1#



#16

Acetone

Concen: 1.488 ug/l

RT: 3.95 min Scan# 388

Delta R.T. 0.01 min

Lab File: VY000036.D

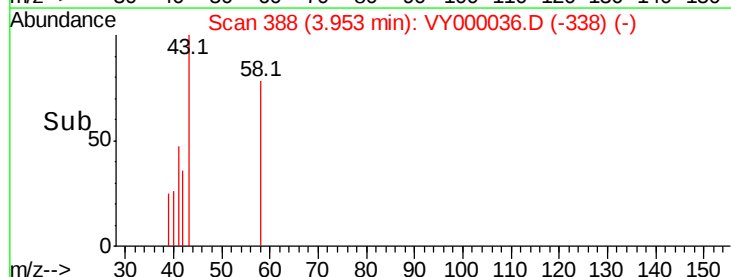
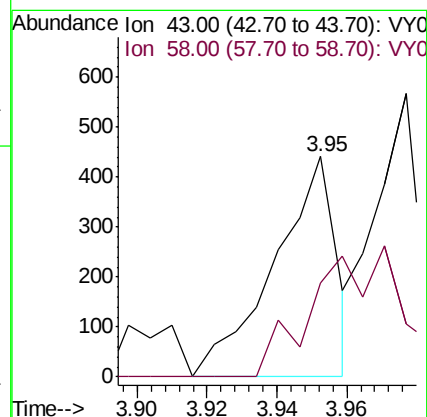
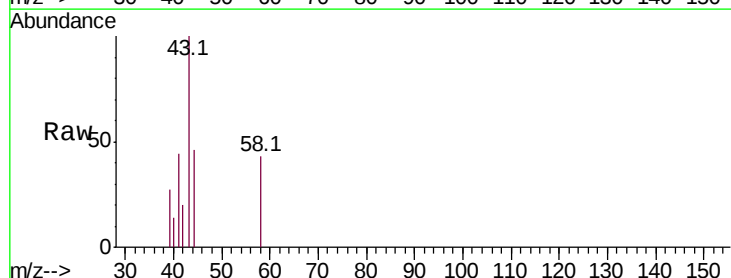
Acq: 13 Sep 2019 10:54

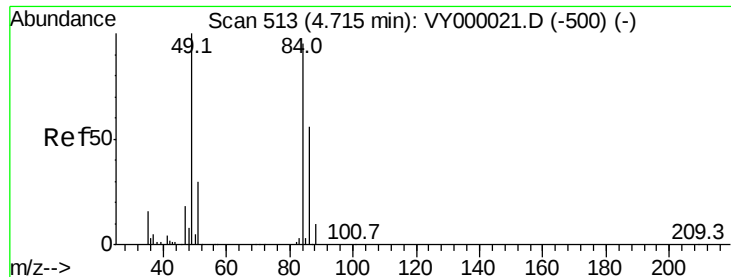
Tgt Ion: 43 Resp: 543

Ion Ratio Lower Upper

43 100

58 42.9 32.5 48.7





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.71 min Scan# 513

Delta R.T. 0.00 min

Lab File: VY000036.D

Acq: 13 Sep 2019 10:54

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 84 Resp: 2469

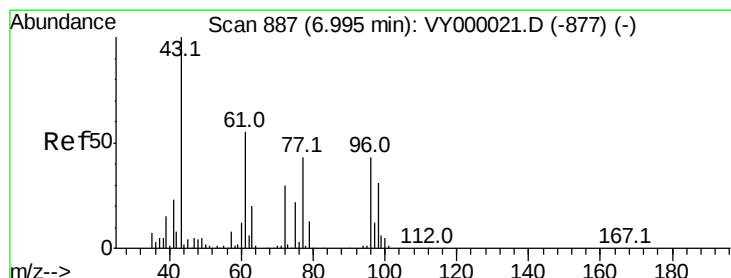
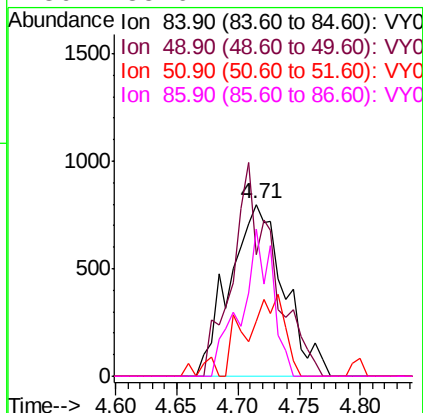
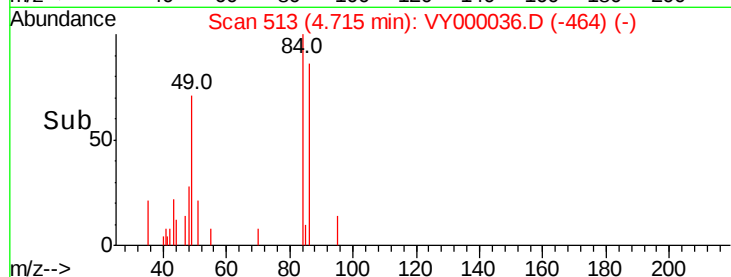
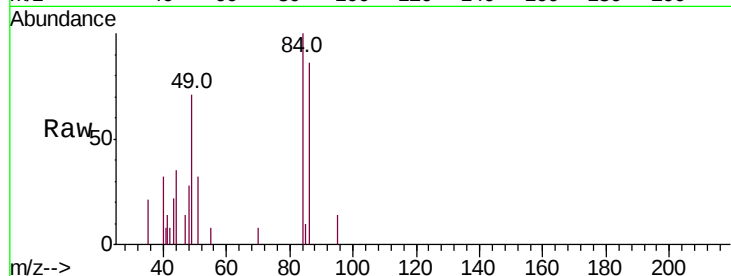
Ion Ratio Lower Upper

84 100

49 71.0 84.4 126.6#

51 32.3 25.4 38.0

86 85.6 47.4 71.2#



#25

2-Butanone

Concen: 1.885 ug/l

RT: 6.99 min Scan# 887

Delta R.T. -0.00 min

Lab File: VY000036.D

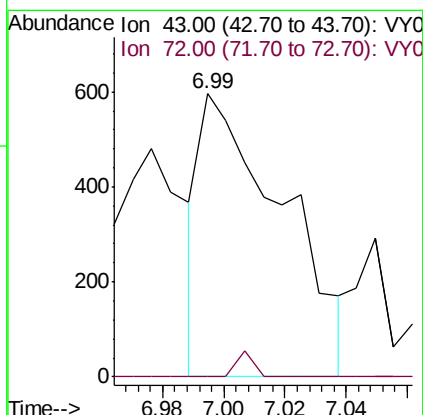
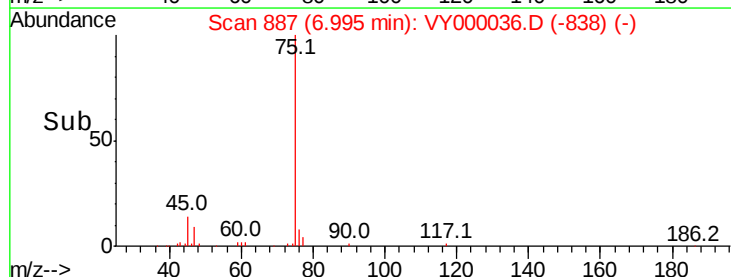
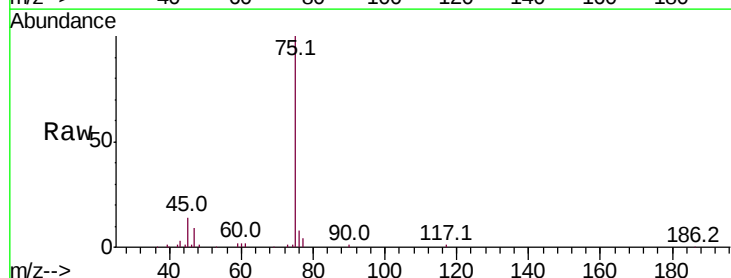
Acq: 13 Sep 2019 10:54

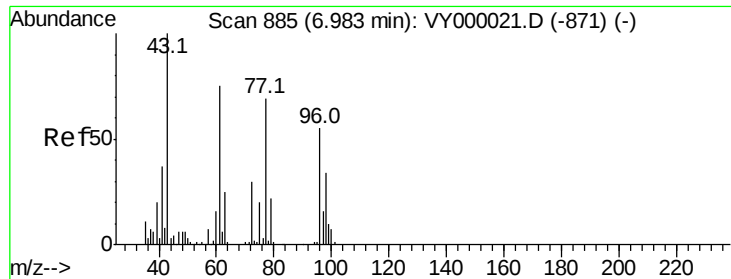
Tgt Ion: 43 Resp: 1118

Ion Ratio Lower Upper

43 100

72 0.0 24.1 36.1#

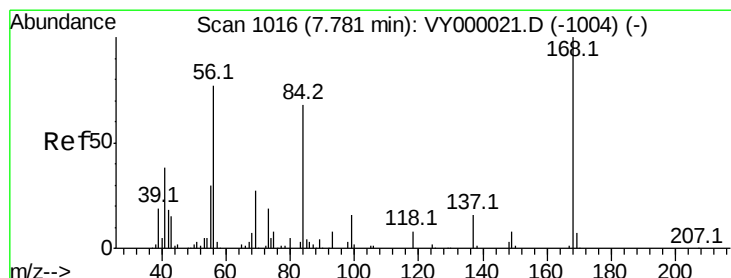
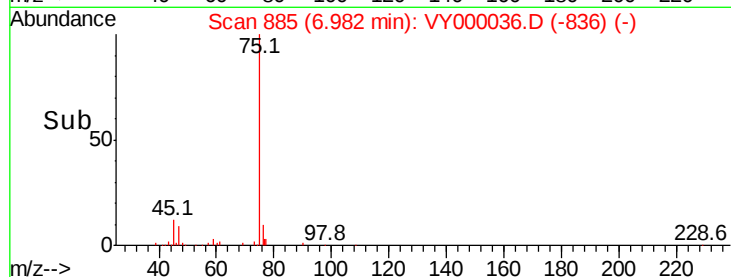
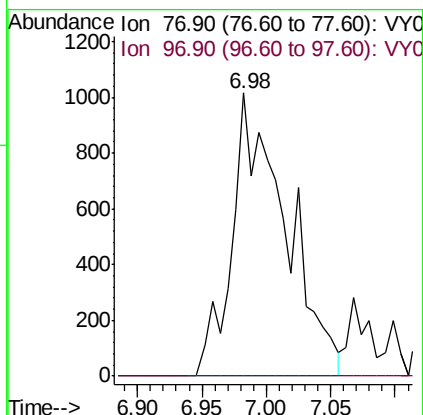
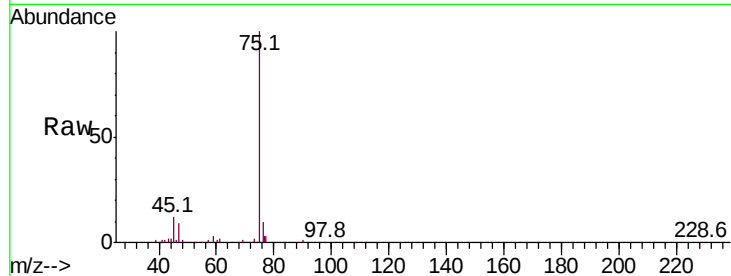




#26
2,2-Dichloropropane
Concen: 1.382 ug/l
RT: 6.98 min Scan# 885
Delta R.T. -0.00 min
Lab File: VY000036.D
Acq: 13 Sep 2019 10:54

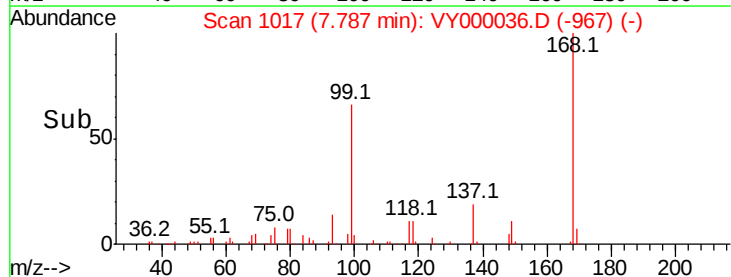
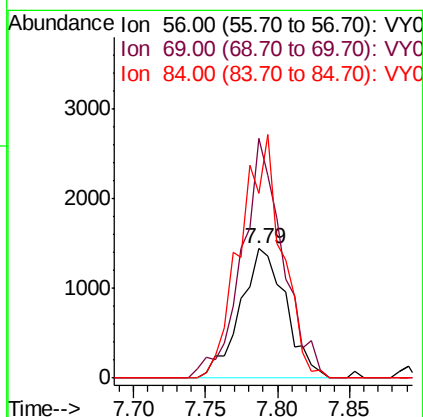
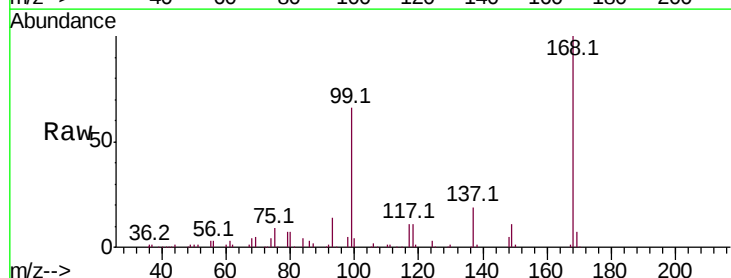
Instrument :
MSVOA_Y
ClientSampled :

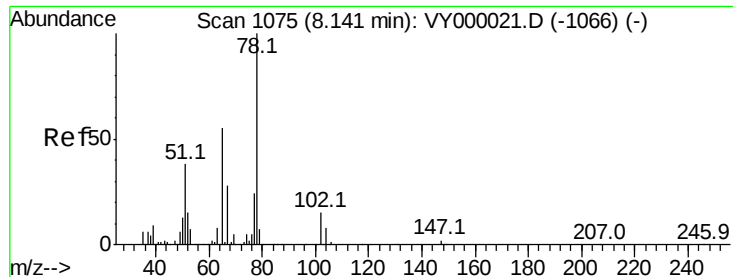
Tot Ion: 77 Resp: 2937
Ion Ratio Lower Upper
77 100
97 0.0 12.0 36.1#



#31
Cyclohexane
Concen: Below Cal
RT: 7.79 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VY000036.D
Acq: 13 Sep 2019 10:54

Tgt Ion: 56 Resp: 3178
Ion Ratio Lower Upper
56 100
69 185.6 28.0 42.0#
84 142.6 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 53.146 ug/l

RT: 8.14 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VY000036.D

Acq: 13 Sep 2019 10:54

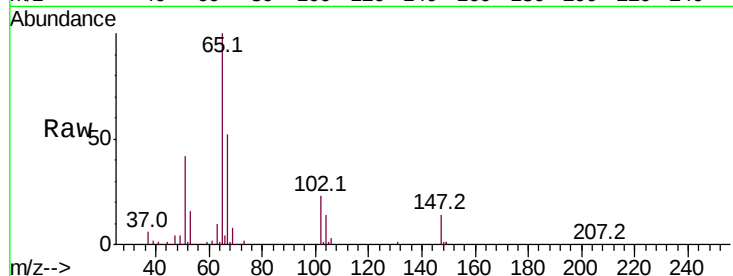
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 65 Resp: 69951

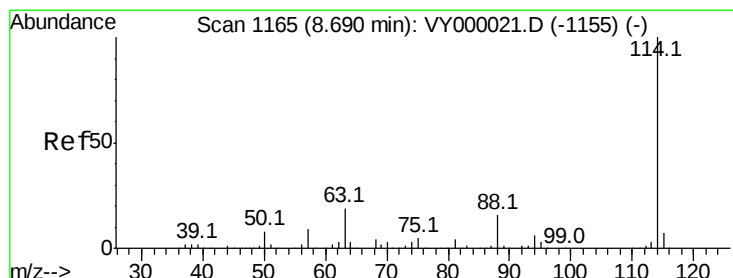
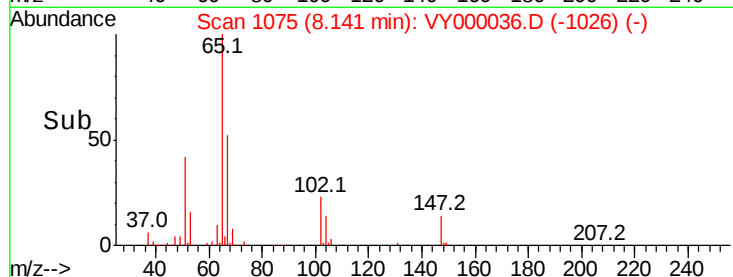
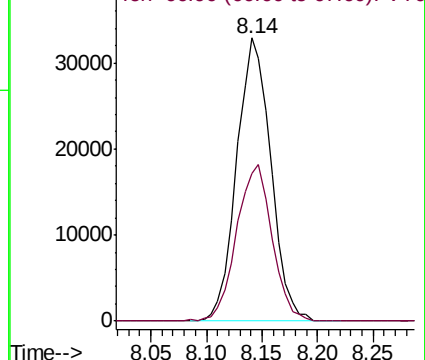
Ion Ratio Lower Upper

65 100

67 57.4 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: VY000036.D

Acq: 13 Sep 2019 10:54

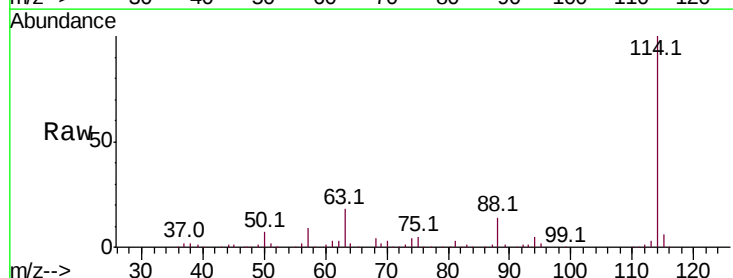
Tgt Ion: 114 Resp: 243204

Ion Ratio Lower Upper

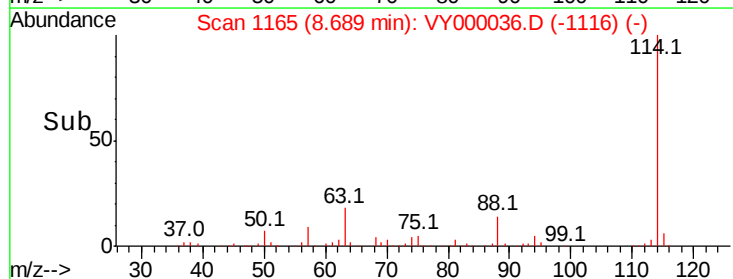
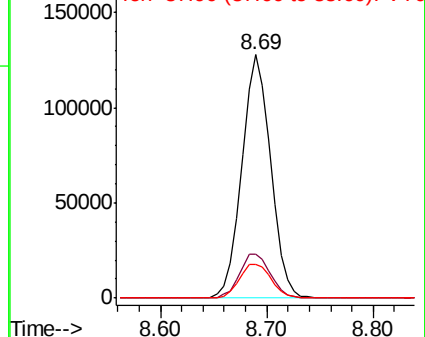
114 100

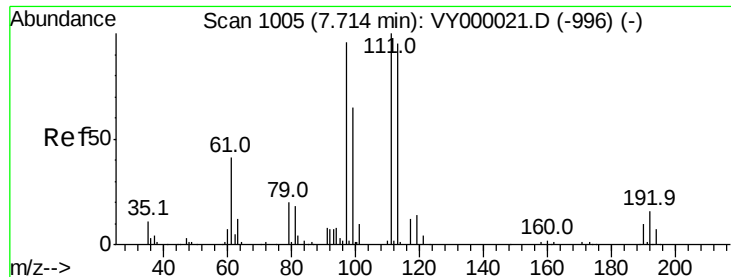
63 18.1 0.0 38.6

88 13.8 0.0 31.8



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: 50.382 ug/l

RT: 7.72 min Scan# 1006

Delta R.T. 0.01 min

Lab File: VY000036.D

Acq: 13 Sep 2019 10:54

Instrument :
MSVOA_Y
ClientSampleId :

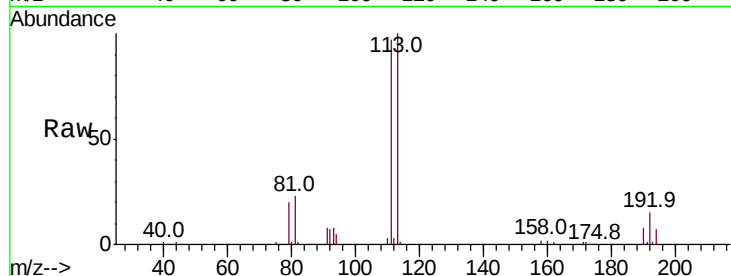
Tot Ion:113 Resp: 70295

Ion Ratio Lower Upper

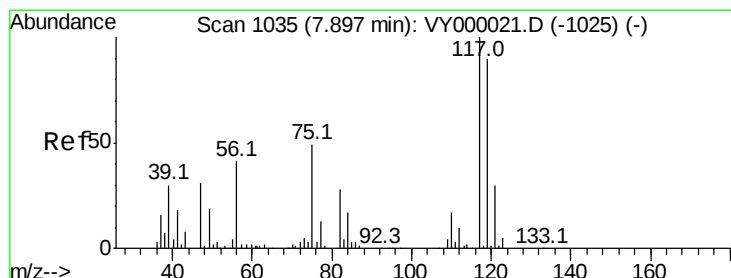
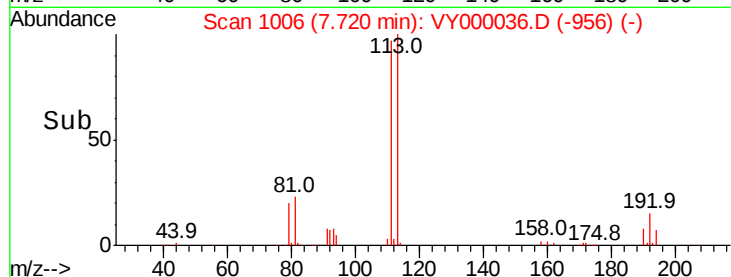
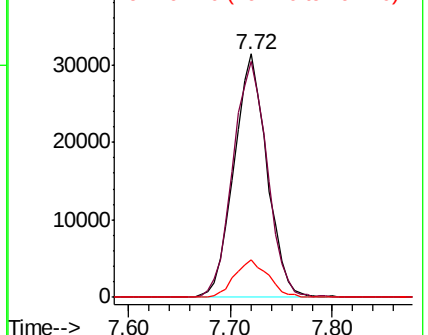
113 100

111 101.3 83.9 125.9

192 15.7 14.5 21.7



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



#38

Carbon Tetrachloride

Concen: 7.680 ug/l

RT: 7.79 min Scan# 1017

Delta R.T. -0.11 min

Lab File: VY000036.D

Acq: 13 Sep 2019 10:54

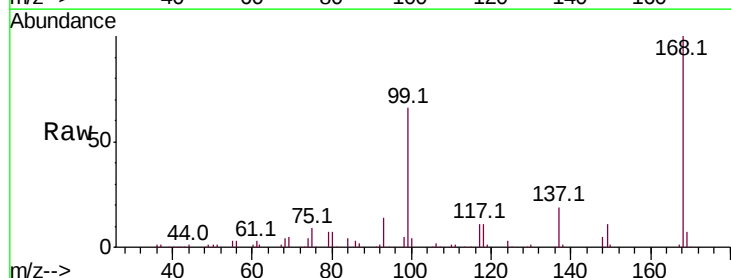
Tgt Ion:117 Resp: 12944

Ion Ratio Lower Upper

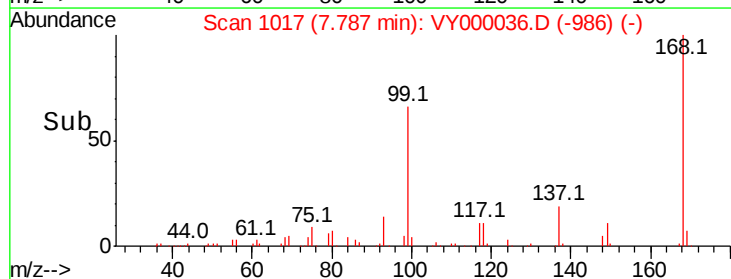
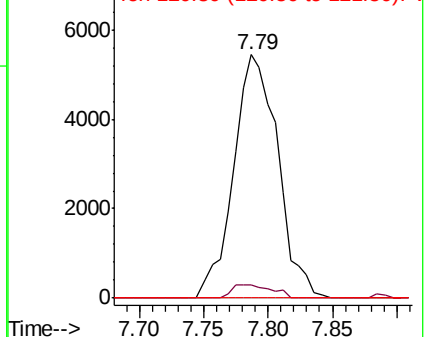
117 100

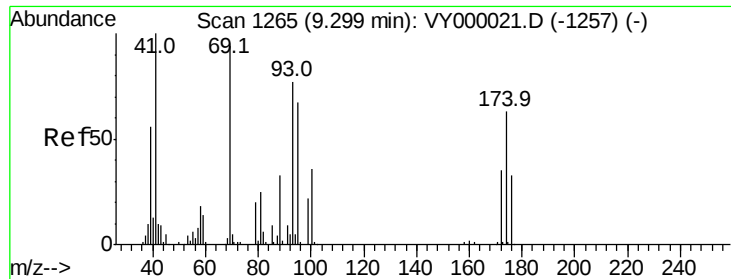
119 5.5 72.1 108.1#

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

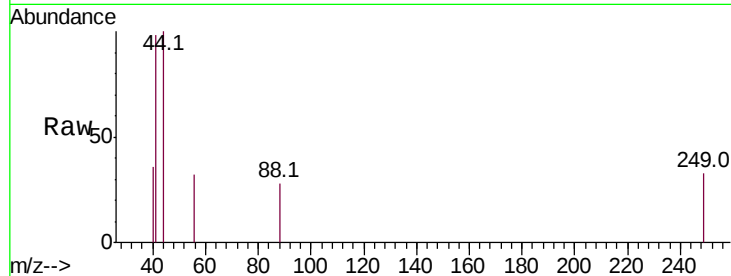




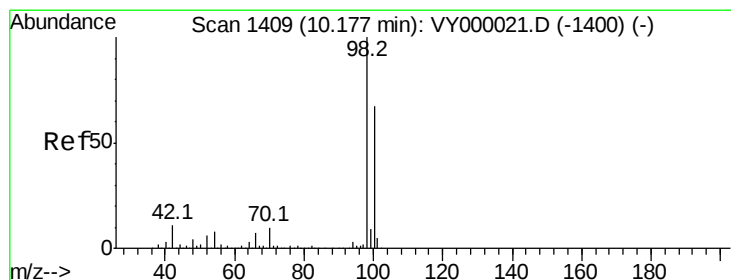
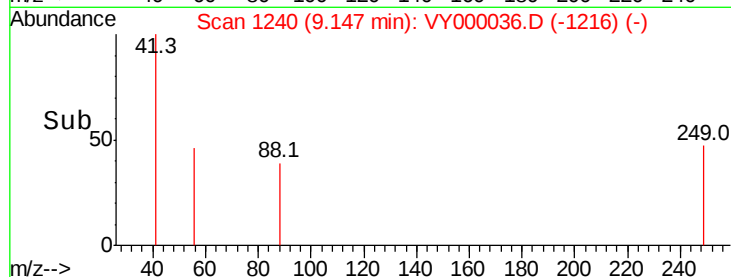
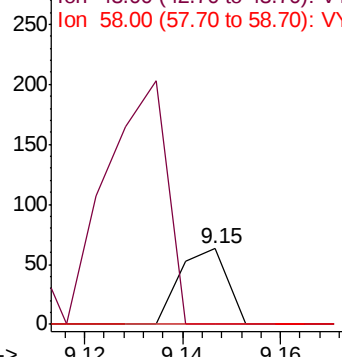
#49
1,4-Dioxane
Concen: 2.411 ug/l
RT: 9.15 min Scan# 1240
Delta R.T. -0.15 min
Lab File: VY000036.D
Acq: 13 Sep 2019 10:54

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 414.3 24.6 37.0#
58 0.0 52.7 79.1#

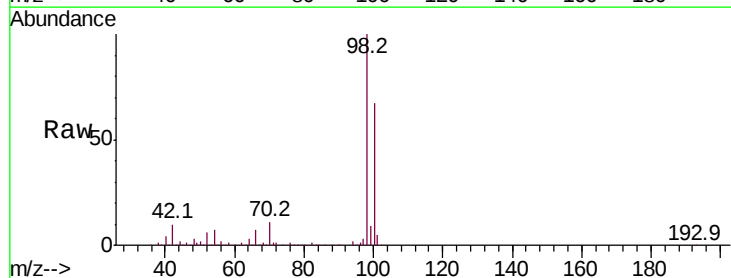


Abundance Ion 88.00 (87.70 to 88.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

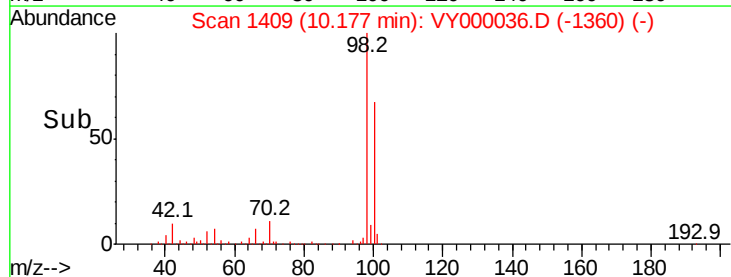
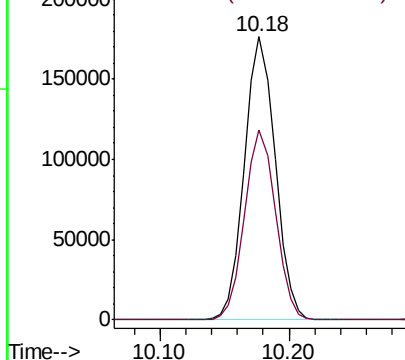


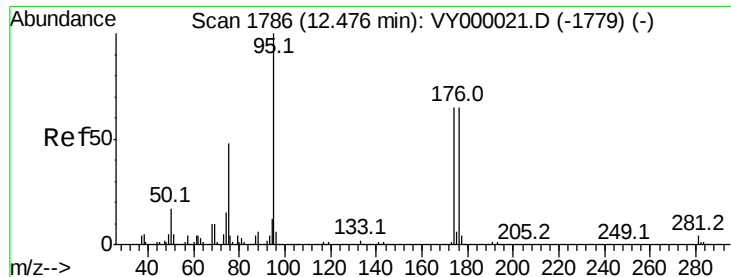
#50
Toluene-d8
Concen: 51.956 ug/l
RT: 10.18 min Scan# 1409
Delta R.T. -0.00 min
Lab File: VY000036.D
Acq: 13 Sep 2019 10:54

Tgt Ion: 98 Resp: 291869
Ion Ratio Lower Upper
98 100
100 67.4 54.0 81.0



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

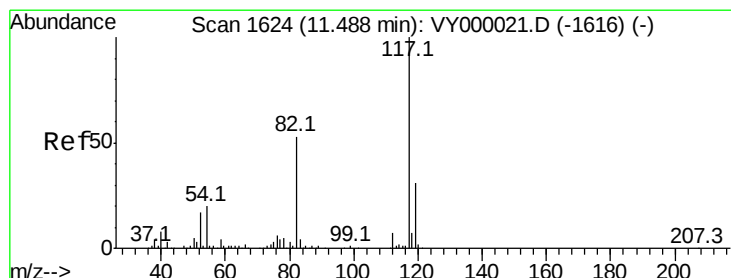
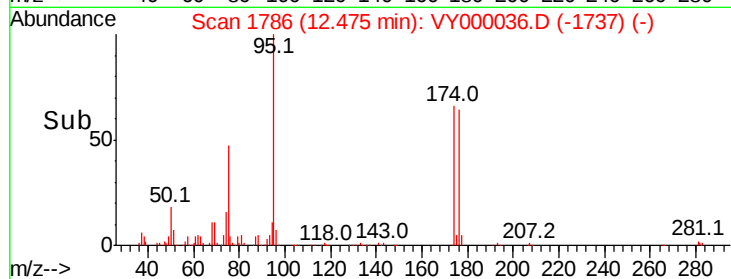
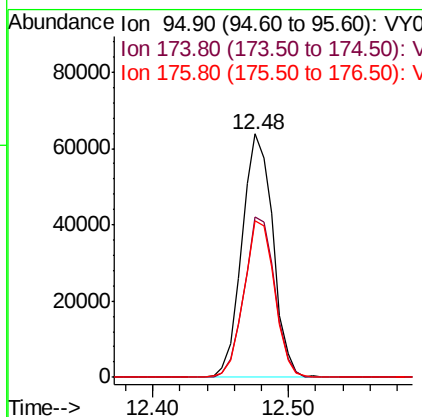
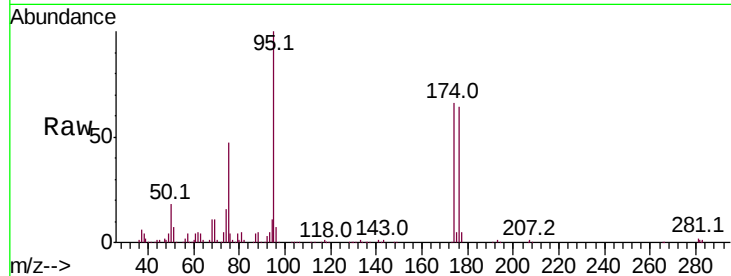




#62
4-Bromofluorobenzene
Concen: 49.661 ug/l
RT: 12.48 min Scan# 1786
Delta R.T. -0.00 min
Lab File: VY000036.D
Acq: 13 Sep 2019 10:54

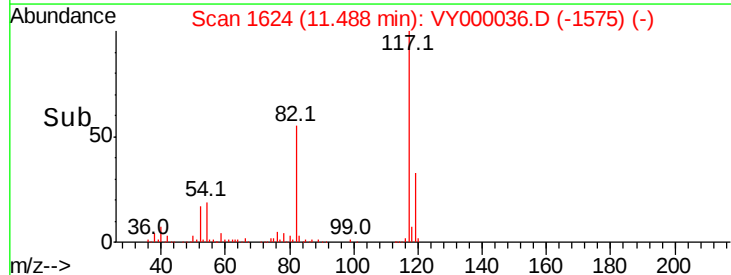
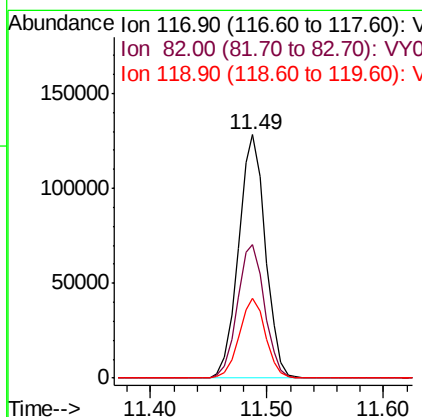
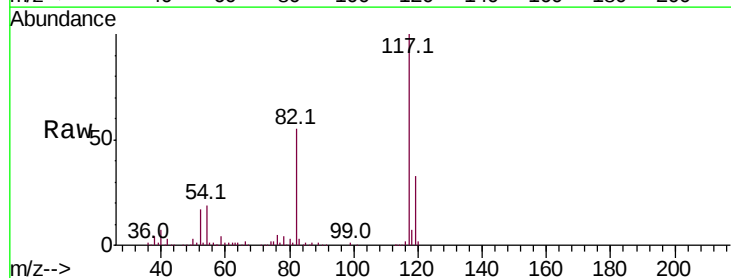
Instrument :
MSVOA_Y
ClientSampled :

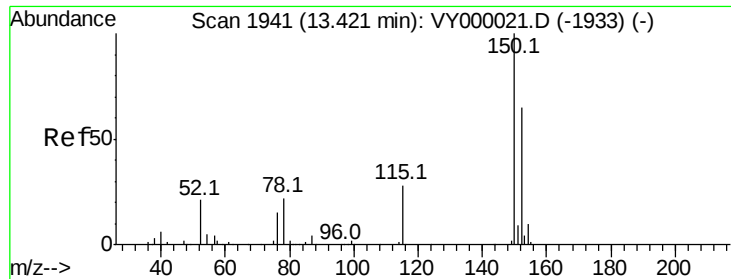
Tot Ion	Ratio	Lower	Upper
95	100		
174	65.6	0.0	137.6
176	63.9	0.0	134.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000036.D
Acq: 13 Sep 2019 10:54

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.9	42.5	63.7
119	32.6	25.1	37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VY000036.D

Acq: 13 Sep 2019 10:54

Instrument :

MSVOA_Y

ClientSampled :

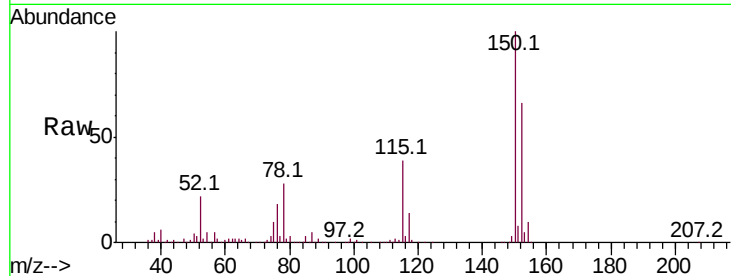
Tot Ion:152 Resp: 87108

Ion Ratio Lower Upper

152 100

115 63.0 29.4 88.2

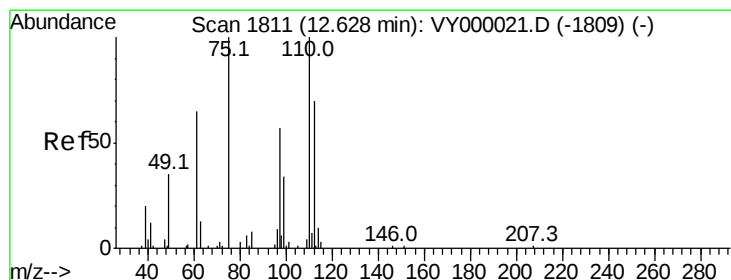
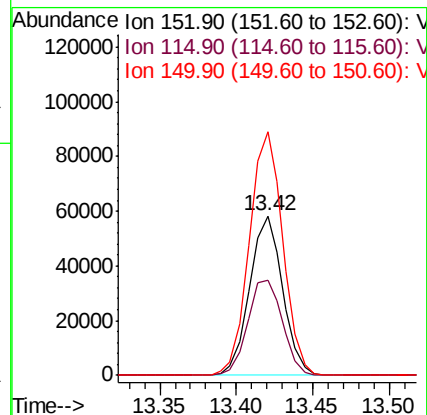
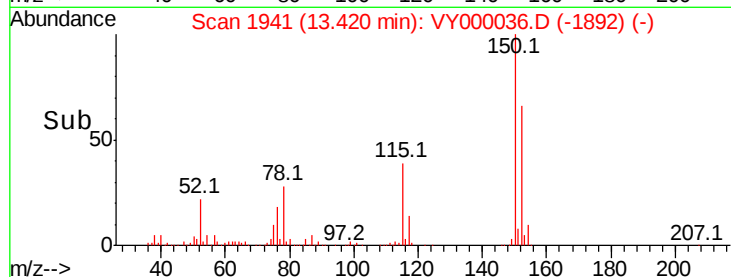
150 155.0 0.0 349.0



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: 39.542 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.15 min

Lab File: VY000036.D

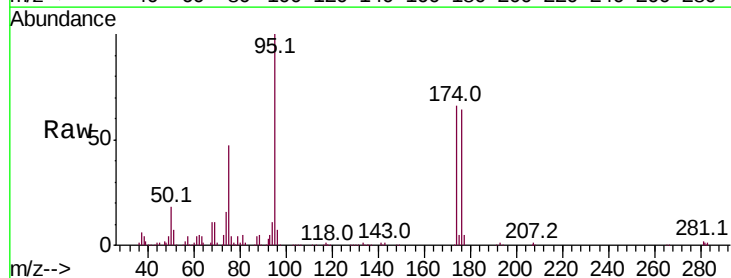
Acq: 13 Sep 2019 10:54

Tgt Ion: 75 Resp: 47842

Ion Ratio Lower Upper

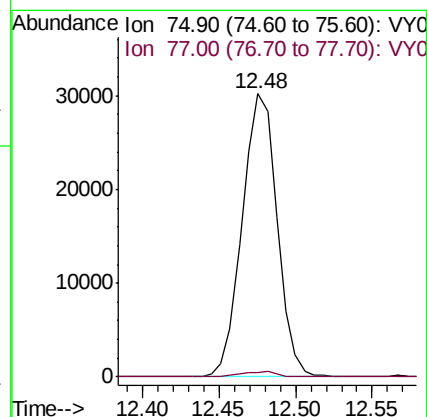
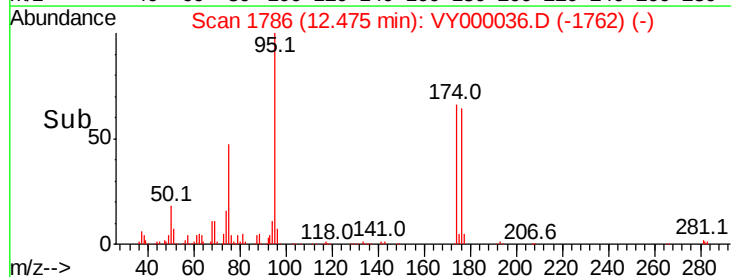
75 100

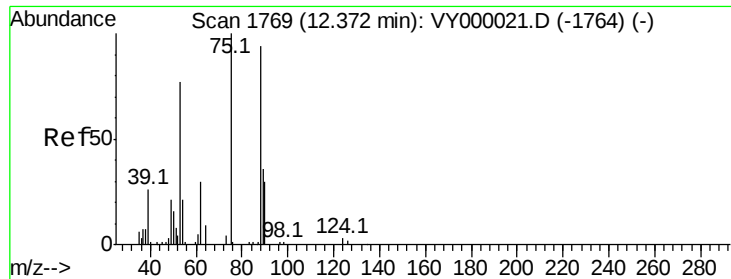
77 1.9 0.0 0.0#



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: 78.434 ug/l

RT: 12.48 min Scan# 1769

Delta R.T. 0.10 min

Lab File: VY000036.D

Acq: 13 Sep 2019 10:54

Instrument :

MSVOA_Y

ClientSampleId :

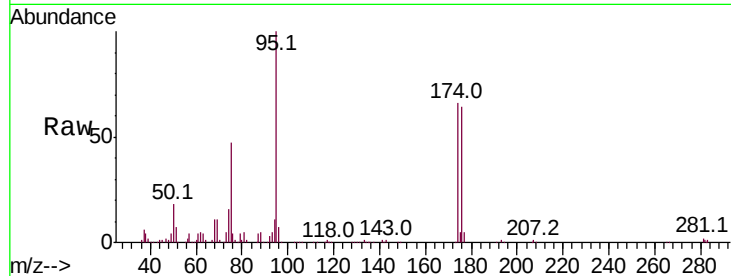
Tot Ion: 75 Resp: 47842

Ion Ratio Lower Upper

75 100

53 0.0 64.2 96.2#

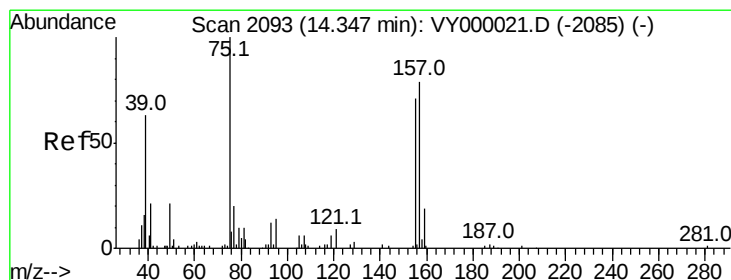
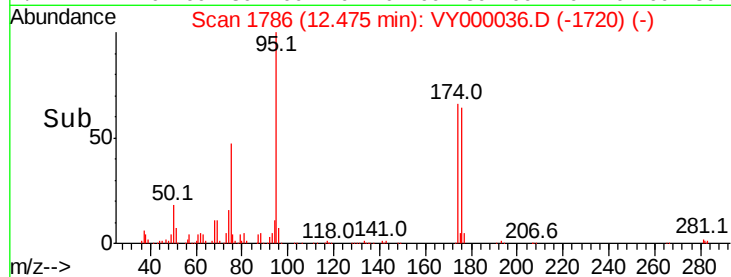
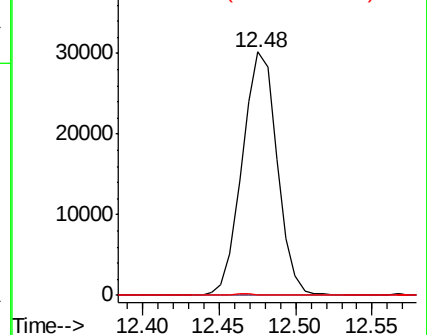
89 0.4 35.5 53.3#



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: Below Cal

RT: 14.33 min Scan# 2090

Delta R.T. -0.02 min

Lab File: VY000036.D

Acq: 13 Sep 2019 10:54

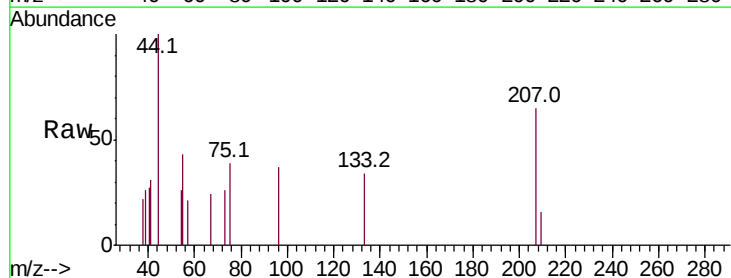
Tgt Ion: 75 Resp: 101

Ion Ratio Lower Upper

75 100

155 0.0 41.8 125.3#

157 0.0 51.3 153.9#



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

