

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY102319\
 Data File : VY000380.D
 Acq On : 23 Oct 2019 14:51
 Operator : SY/MD
 Sample : K5494-09
 Misc : 4.49G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 24 04:45:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 17 02:03:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	73775	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	129300	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	112788	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	45469	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	48376	62.16	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.72	113	38789	49.73	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.19	98	147596	49.19	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.48	95	47391	41.58	ug/l	0.00
Spiked Amount						

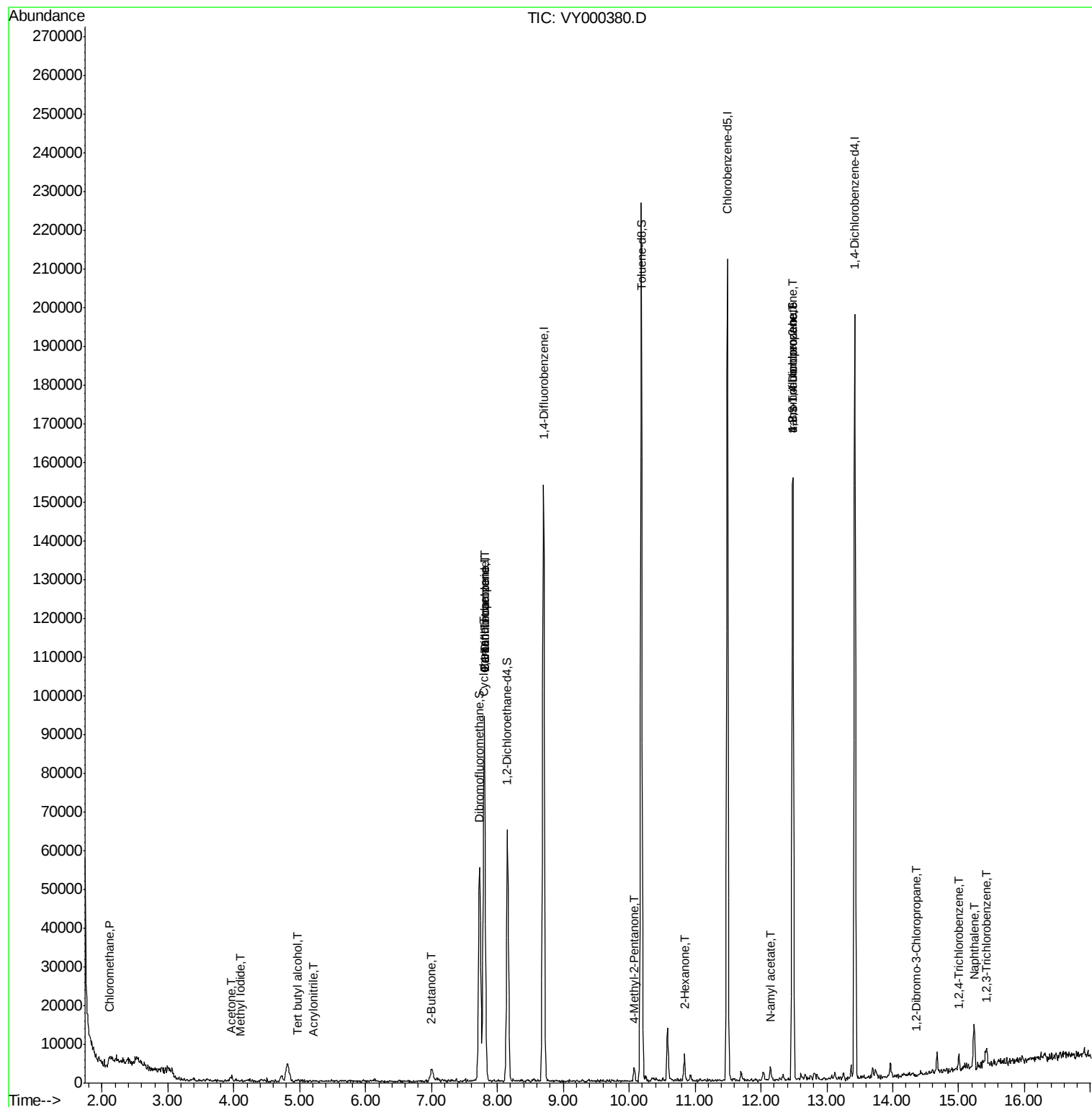
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	1039	1.153	ug/l #	73
10) Methyl Iodide	4.11	142	82	1.260	ug/l #	41
11) Tert butyl alcohol	4.97	59	528	6.483	ug/l #	73
15) Acrylonitrile	5.19	53	364	1.479	ug/l #	43
16) Acetone	3.95	43	1049	4.162	ug/l #	42
20) Methylene Chloride	4.72	84	644	Below Cal	#	79
25) 2-Butanone	6.99	43	857	2.414	ug/l #	48
31) Cyclohexane	7.79	56	1540	1.034	ug/l #	33
36) 1,1-Dichloropropene	7.80	75	5715	4.514	ug/l #	47
38) Carbon Tetrachloride	7.80	117	8079	6.591	ug/l #	18
51) 4-Methyl-2-Pentanone	10.08	43	2379	3.236	ug/l #	82
59) 2-Hexanone	10.84	43	3934	7.624	ug/l	95
74) N-amyl acetate	12.14	43	1836	2.109	ug/l #	92
76) 1,2,3-Trichloropropane	12.48	75	24206	43.294	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	24206	94.725	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	14.37	75	163	1.291	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.00	180	1268	1.295	ug/l	92
95) Naphthalene	15.23	128	8322	3.808	ug/l	96
96) 1,2,3-Trichlorobenzene	15.42	180	1346	1.525	ug/l	89

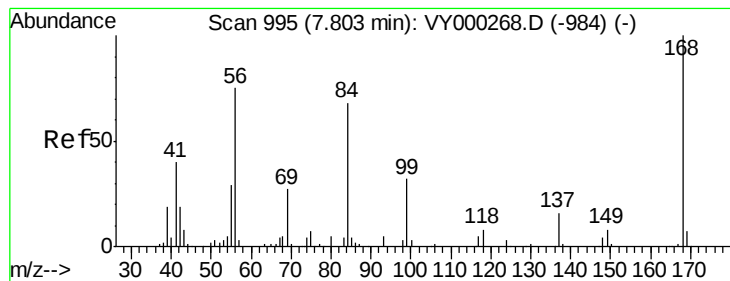
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY000380.D

Acq: 23 Oct 2019 14:51

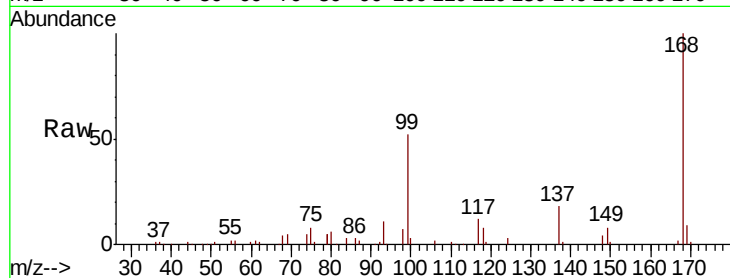
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 73775

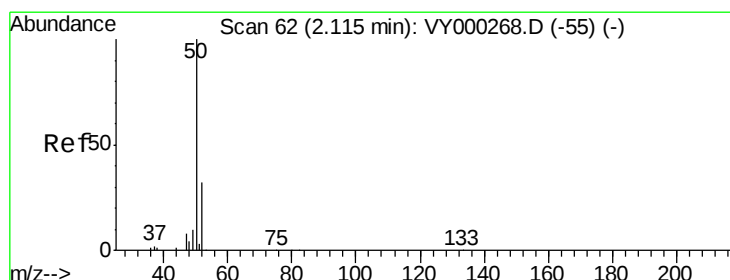
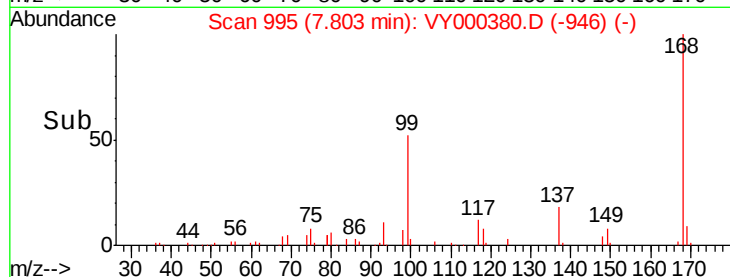
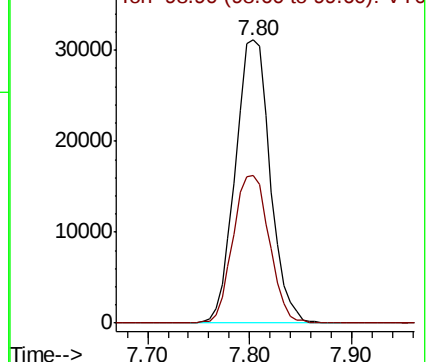
Ion Ratio Lower Upper

168 100

99 52.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000380.D (-946) (-)



#3

Chloromethane

Concen: 1.153 ug/l

RT: 2.11 min Scan# 61

Delta R.T. -0.01 min

Lab File: VY000380.D

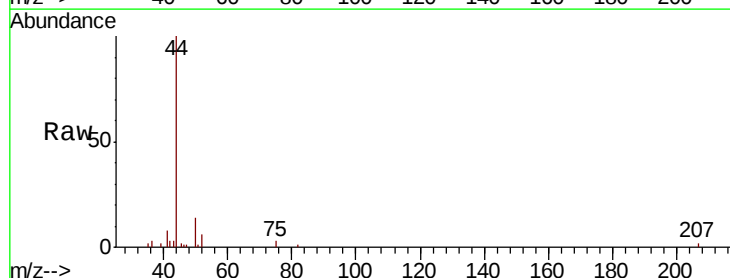
Acq: 23 Oct 2019 14:51

Tgt Ion: 50 Resp: 1039

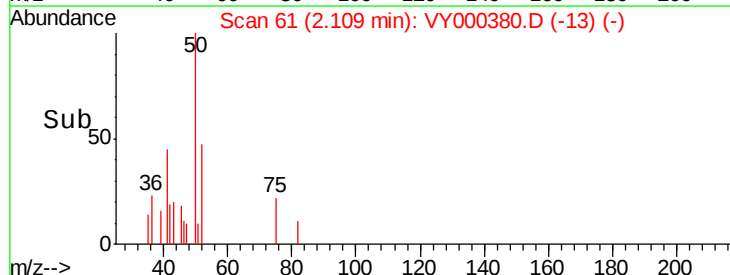
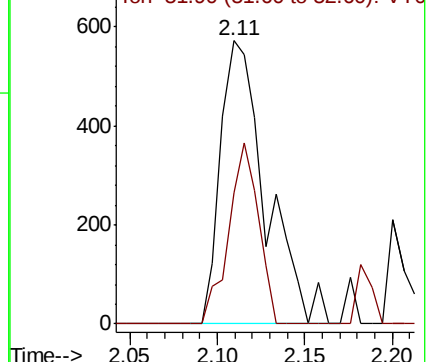
Ion Ratio Lower Upper

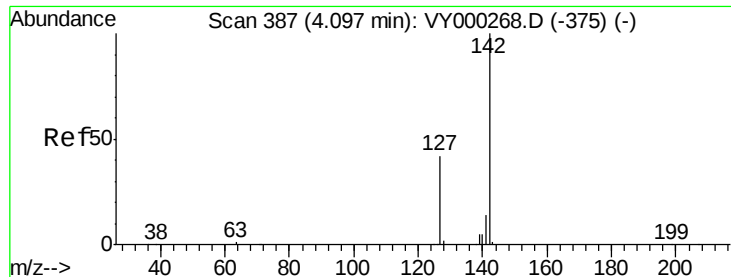
50 100

52 46.5 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VY000380.D (-13) (-)

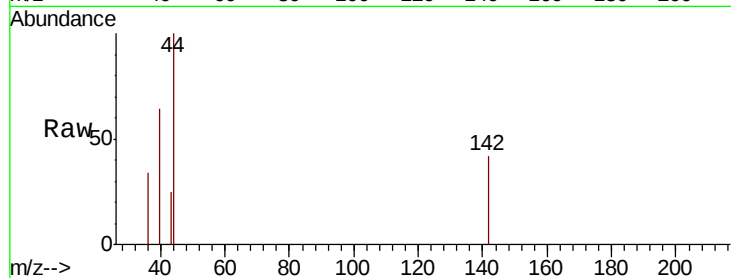




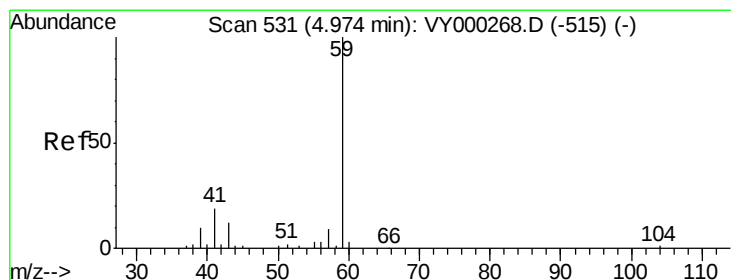
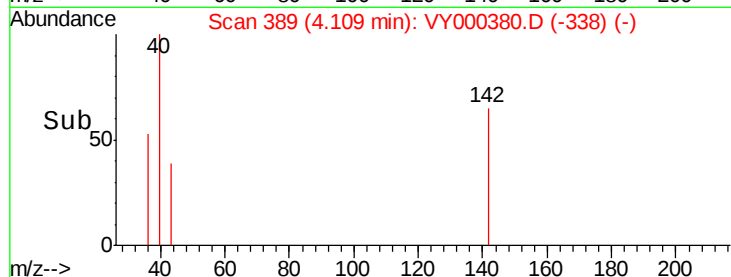
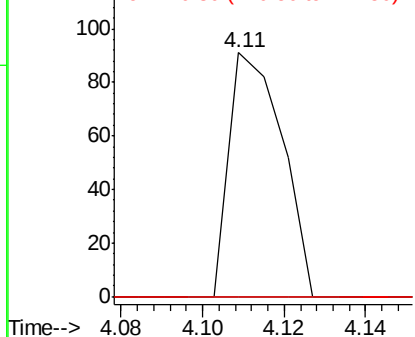
#10
Methyl Iodide
Concen: 1.260 ug/l
RT: 4.11 min Scan# 389
Delta R.T. 0.01 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:142 Resp: 82
Ion Ratio Lower Upper
142 100
127 0.0 33.9 50.9#
141 0.0 11.2 16.8#

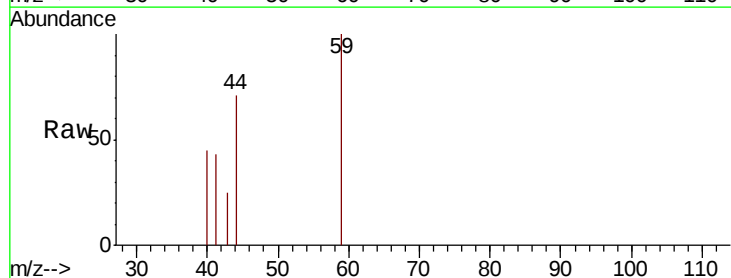


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

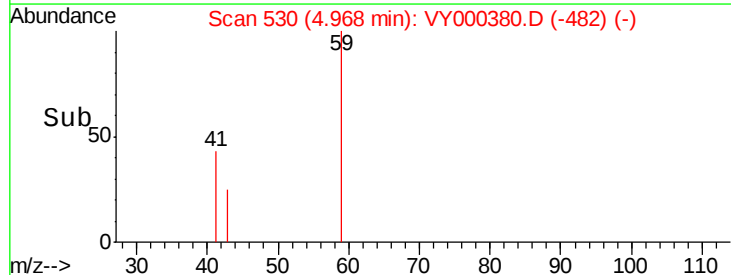
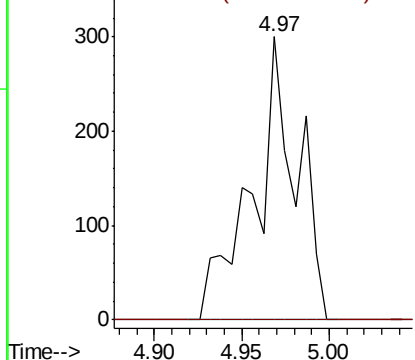


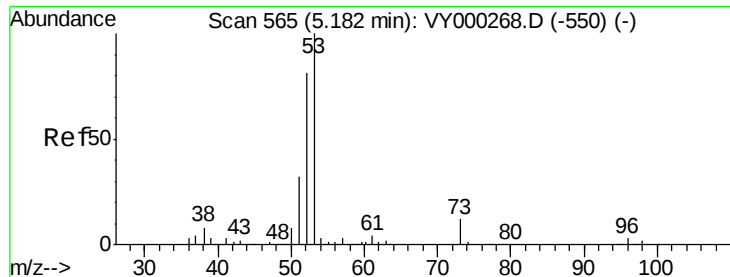
#11
Tert butyl alcohol
Concen: 6.483 ug/l
RT: 4.97 min Scan# 530
Delta R.T. -0.01 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

Tgt Ion: 59 Resp: 528
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VY0
Ion 57.00 (56.70 to 57.70): VY0





#15

Acrylonitrile

Concen: 1.479 ug/l

RT: 5.19 min Scan# 567

Delta R.T. 0.01 min

Lab File: VY000380.D

Acq: 23 Oct 2019 14:51

Instrument :

MSVOA_Y

ClientSampleId :

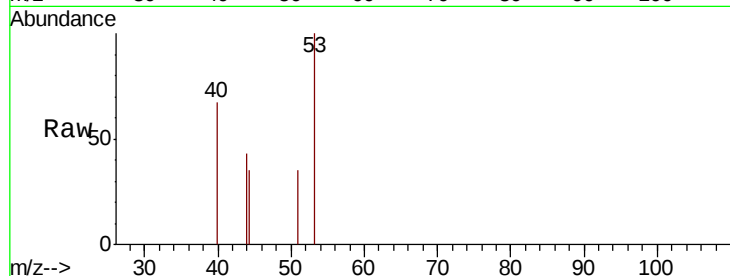
Tot Ion: 53 Resp: 364

Ion Ratio Lower Upper

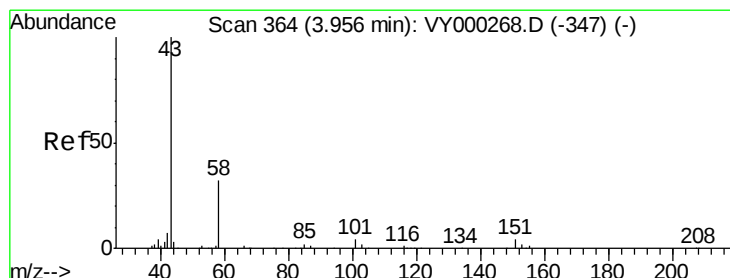
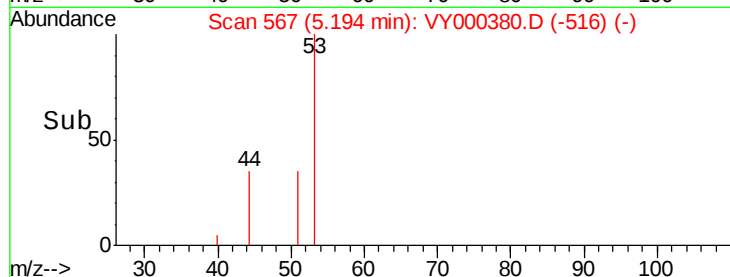
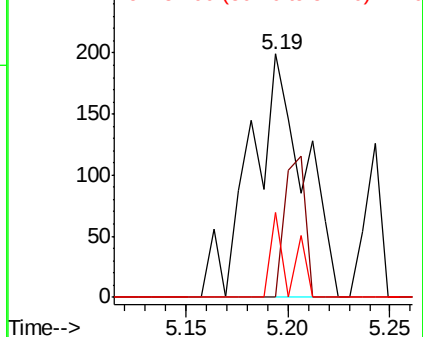
53 100

52 22.0 62.9 94.3#

51 12.1 26.9 40.3#



Abundance Ion 53.00 (52.70 to 53.70): VY0
Ion 52.00 (51.70 to 52.70): VY0
Ion 51.00 (50.70 to 51.70): VY0



#16

Acetone

Concen: 4.162 ug/l

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VY000380.D

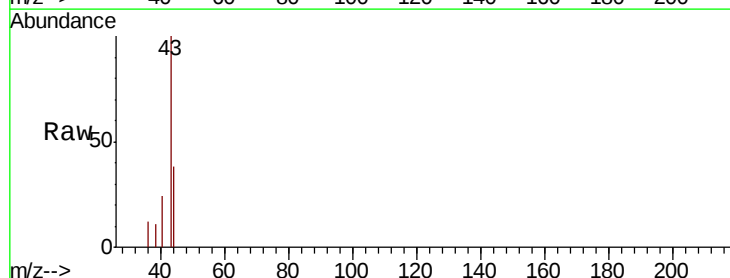
Acq: 23 Oct 2019 14:51

Tgt Ion: 43 Resp: 1049

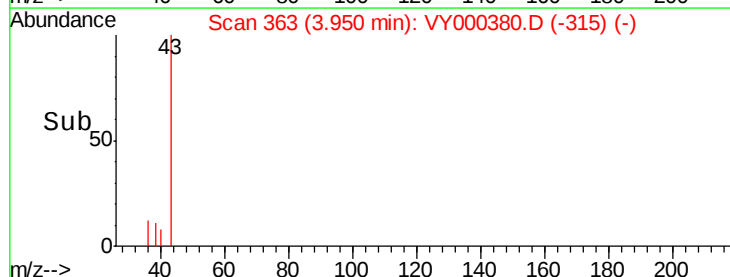
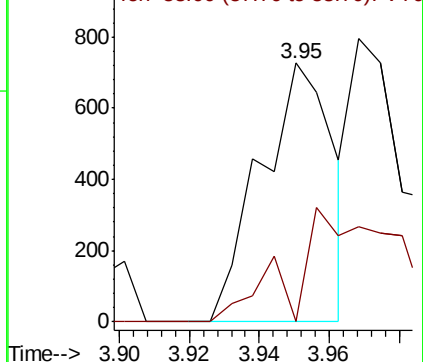
Ion Ratio Lower Upper

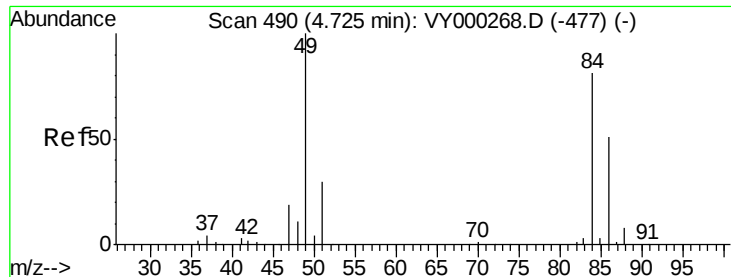
43 100

58 0.0 25.8 38.6#



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

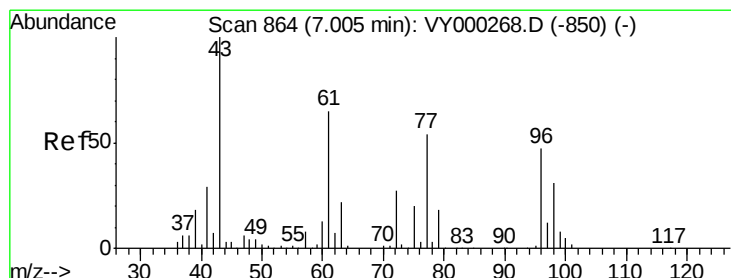
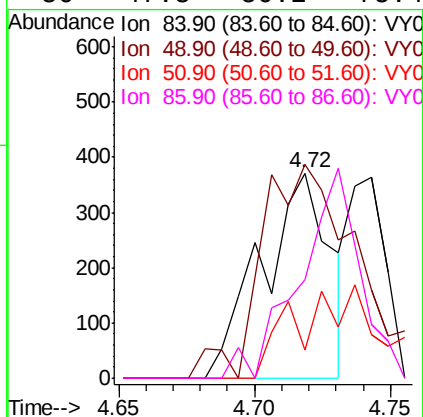
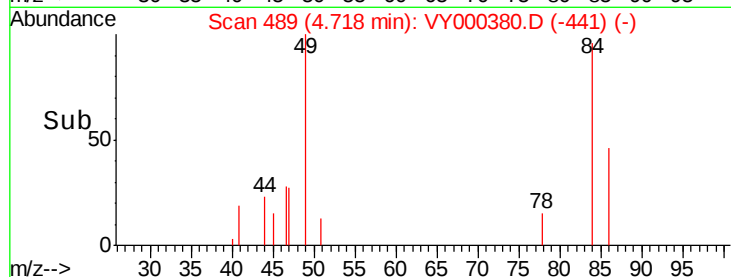
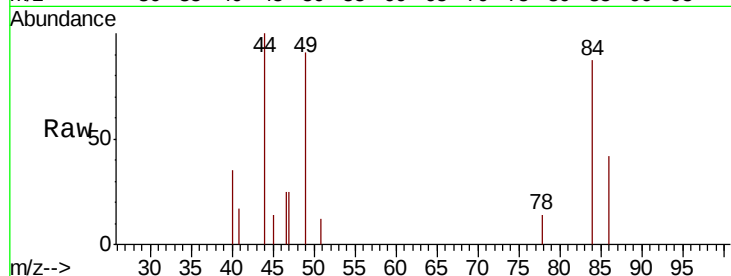




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.72 min Scan# 489
Delta R.T. -0.01 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

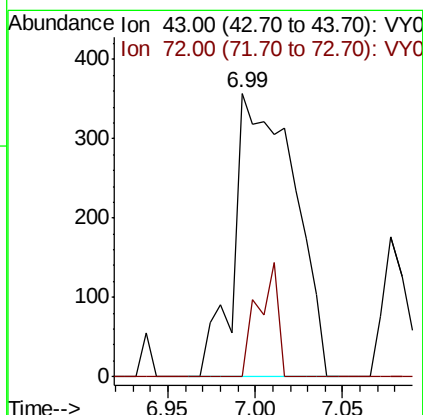
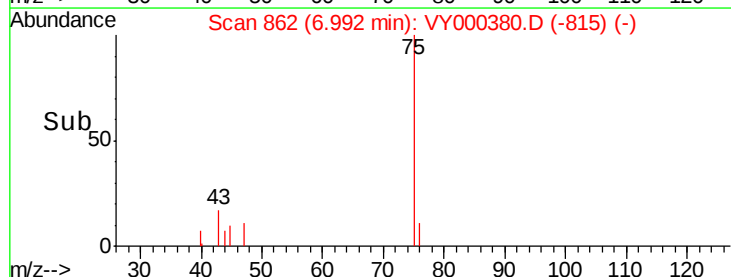
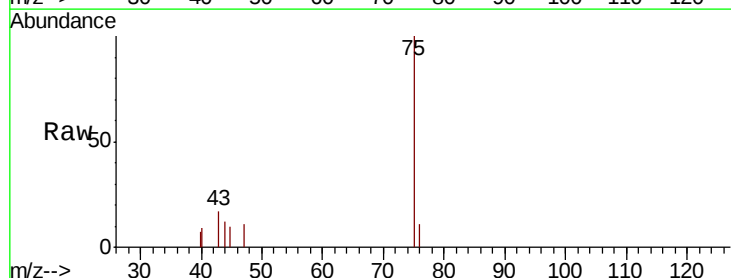
Instrument :
MSVOA_Y
ClientSampleId :

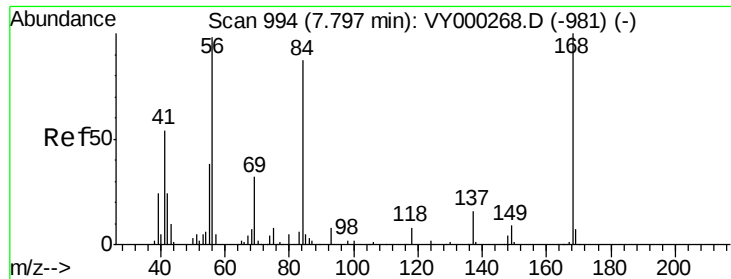
Tot Ion: 84 Resp: 644
Ion Ratio Lower Upper
84 100
49 104.0 99.0 148.4
51 13.7 29.3 43.9#
86 47.8 50.2 75.4#



#25
2-Butanone
Concen: 2.414 ug/l
RT: 6.99 min Scan# 862
Delta R.T. -0.01 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

Tgt Ion: 43 Resp: 857
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#

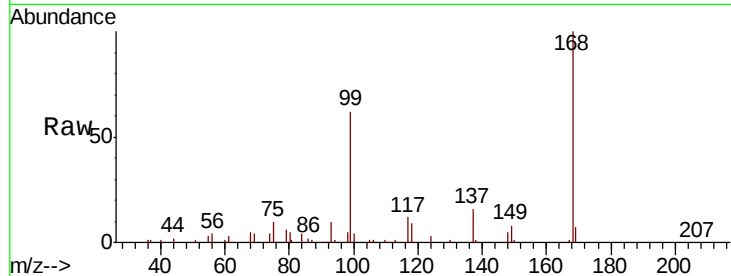




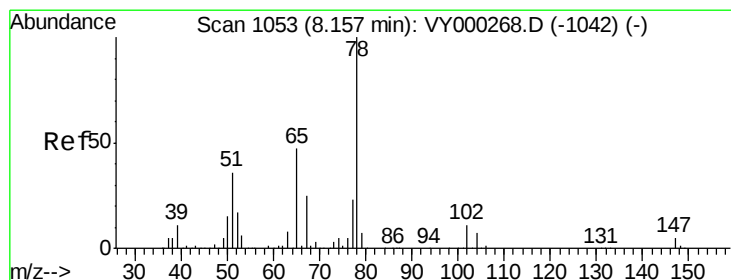
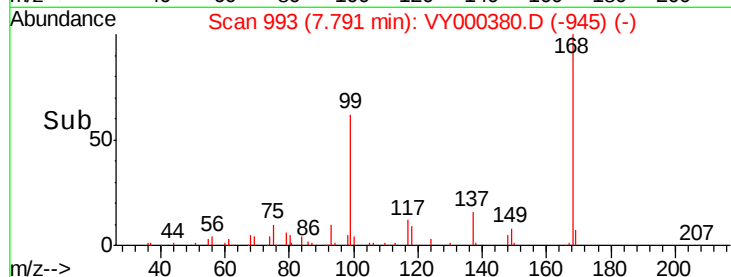
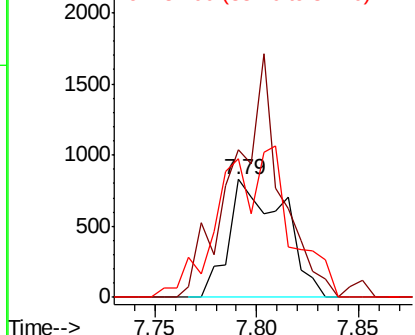
#31
Cyclohexane
Concen: 1.034 ug/l
RT: 7.79 min Scan# 993
Delta R.T. -0.01 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 56 Resp: 1540
Ion Ratio Lower Upper
56 100
69 124.8 26.3 39.5#
84 117.2 70.8 106.2#

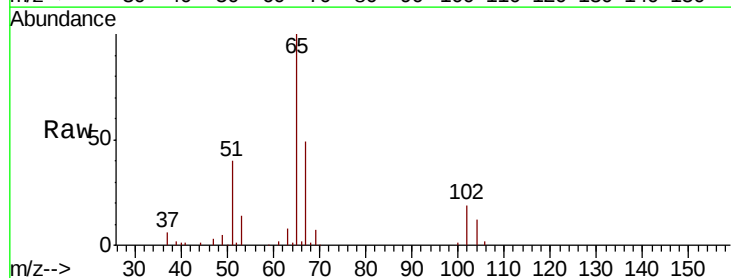


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

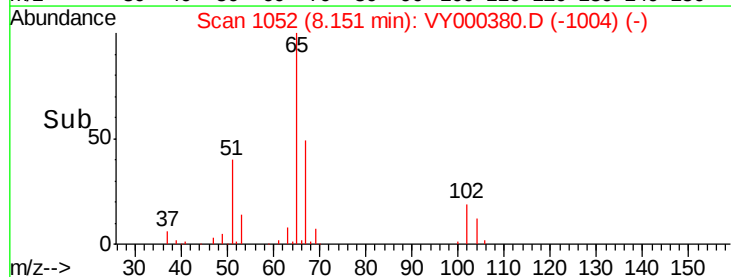
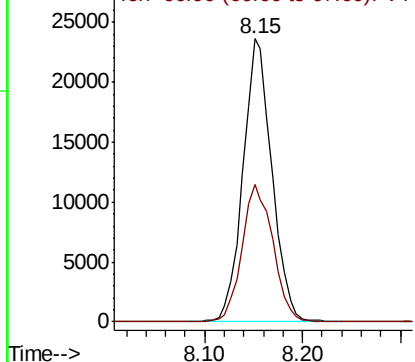


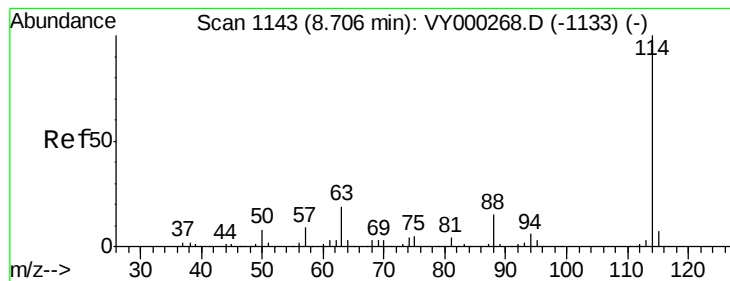
#33
1,2-Dichloroethane-d4
Concen: 62.163 ug/l
RT: 8.15 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

Tgt Ion: 65 Resp: 48376
Ion Ratio Lower Upper
65 100
67 51.6 0.0 109.4



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: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY000380.D

Acq: 23 Oct 2019 14:51

Instrument :

MSVOA_Y

ClientSampleId :

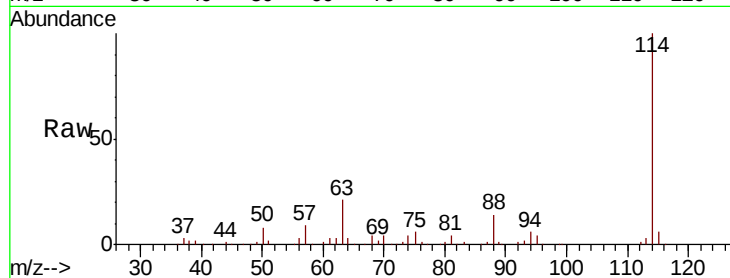
Tot Ion:114 Resp: 129300

Ion Ratio Lower Upper

114 100

63 21.0 0.0 37.2

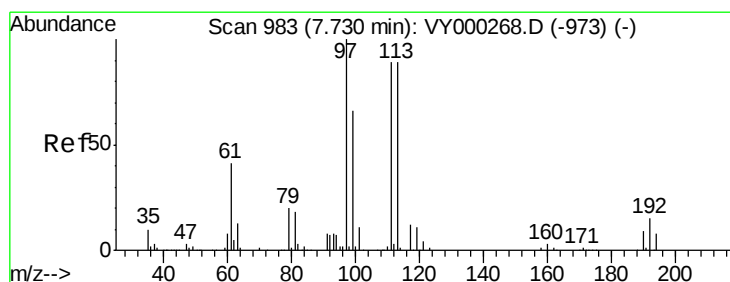
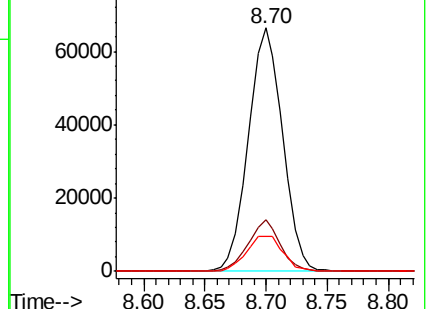
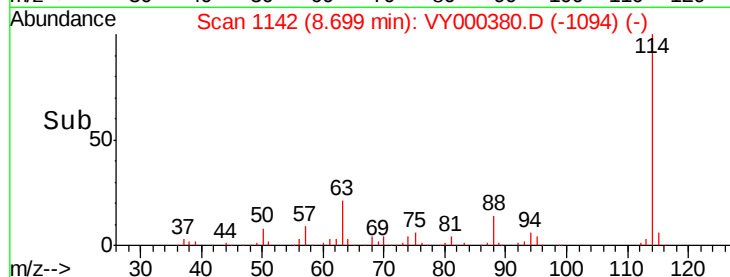
88 14.3 0.0 30.2



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: 49.733 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.01 min

Lab File: VY000380.D

Acq: 23 Oct 2019 14:51

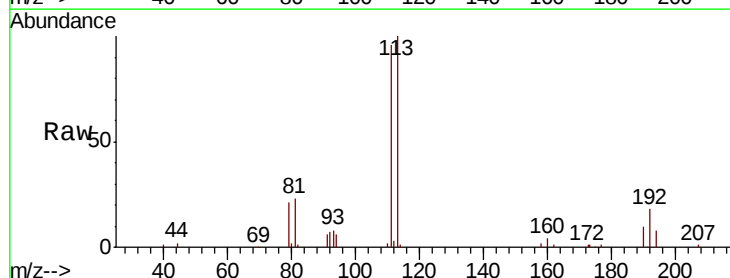
Tgt Ion:113 Resp: 38789

Ion Ratio Lower Upper

113 100

111 100.6 81.6 122.4

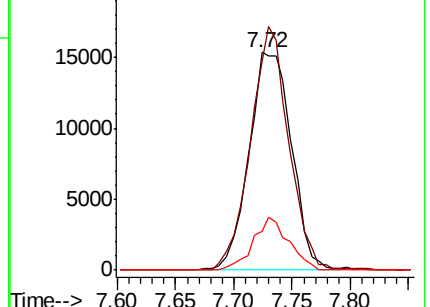
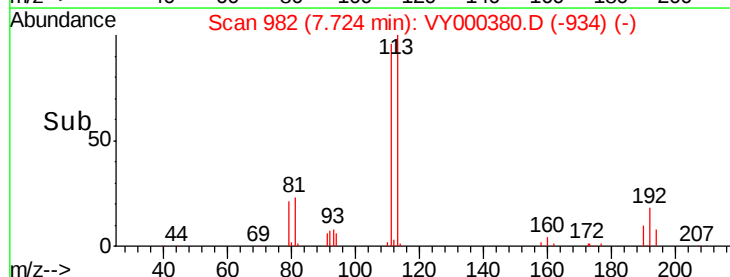
192 20.2 15.3 22.9

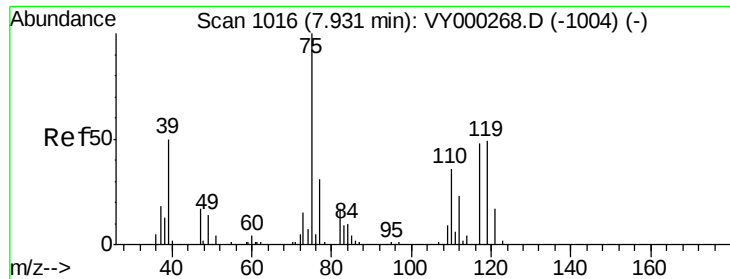


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

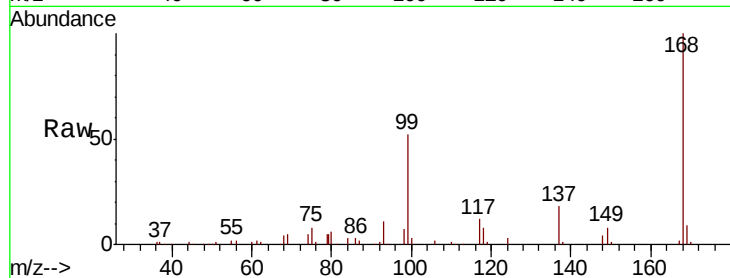




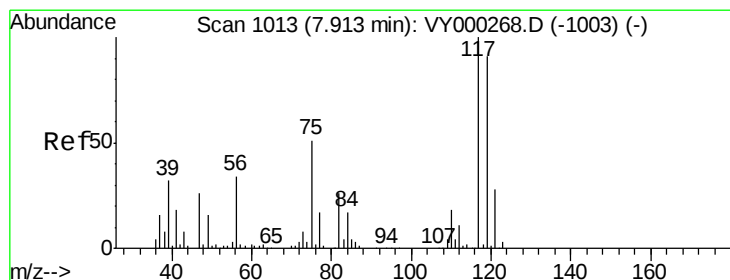
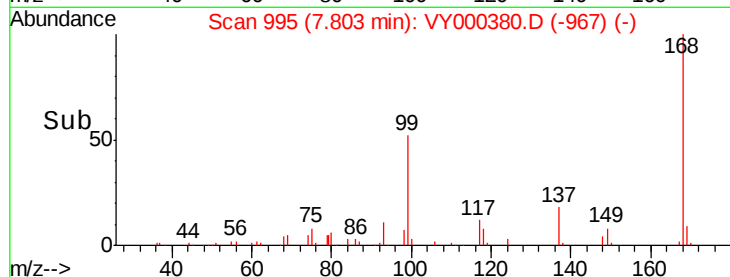
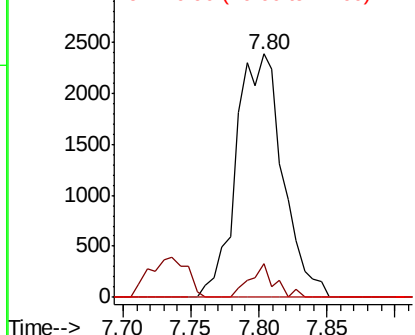
#36
 1,1-Dichloropropene
 Concen: 4.514 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.13 min
 Lab File: VY000380.D
 Acq: 23 Oct 2019 14:51

Instrument :
 MSVOA_Y
 ClientSampled :

Tot Ion	75	Resp	5715
Ion Ratio	Lower	Upper	
75	100		
110	7.2	18.4	55.4#
77	0.0	25.0	37.6#

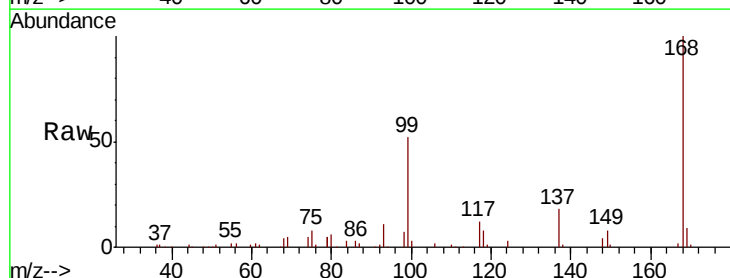


Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): VY0
 Ion 76.90 (76.60 to 77.60): VY0

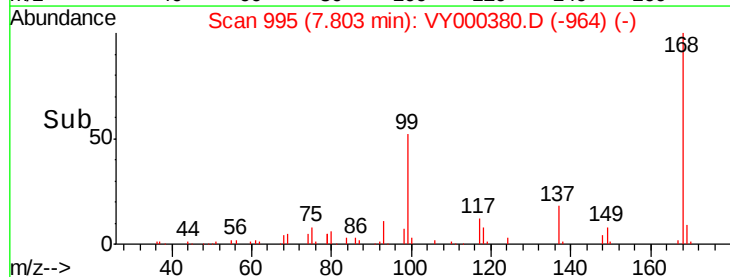
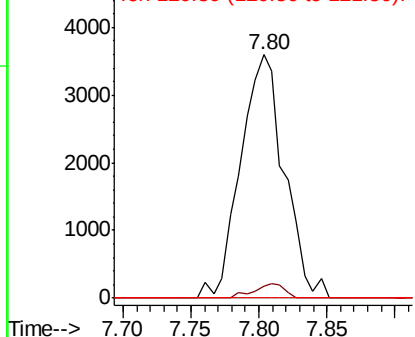


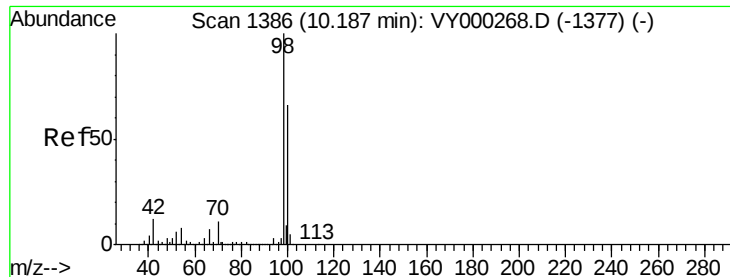
#38
 Carbon Tetrachloride
 Concen: 6.591 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.11 min
 Lab File: VY000380.D
 Acq: 23 Oct 2019 14:51

Tgt Ion	117	Resp	8079
Ion Ratio	Lower	Upper	
117	100		
119	5.1	72.8	109.2#
121	0.0	22.2	33.2#



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





#50

Toluene-d8

Concen: 49.194 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. 0.00 min

Lab File: VY000380.D

Acq: 23 Oct 2019 14:51

Instrument :

MSVOA_Y

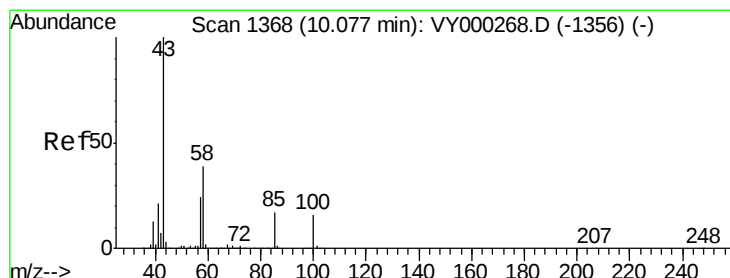
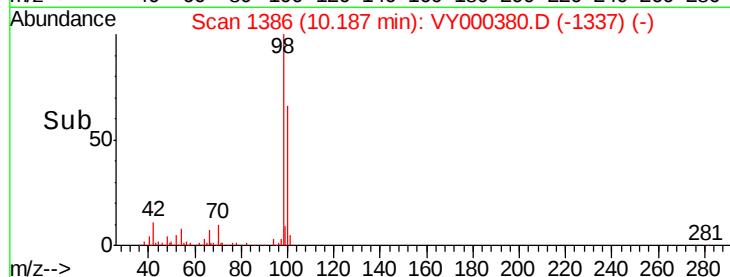
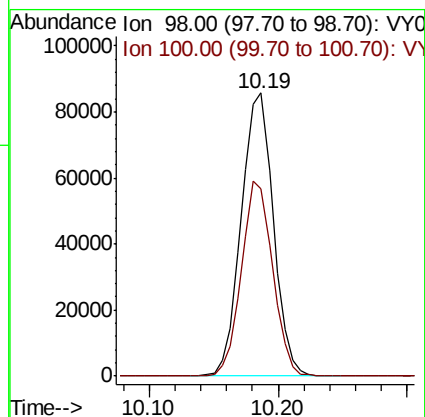
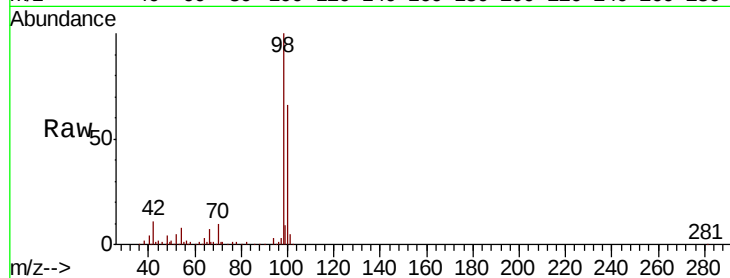
ClientSampleId :

Tot Ion: 98 Resp: 147596

Ion Ratio Lower Upper

98 100

100 67.0 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 3.236 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VY000380.D

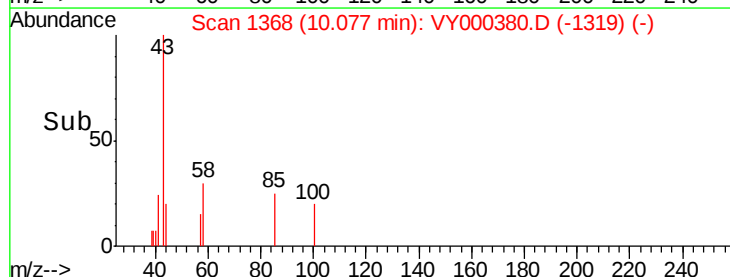
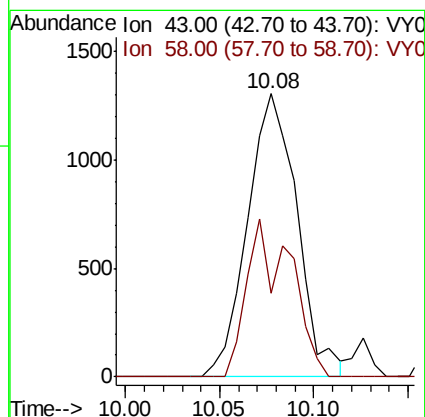
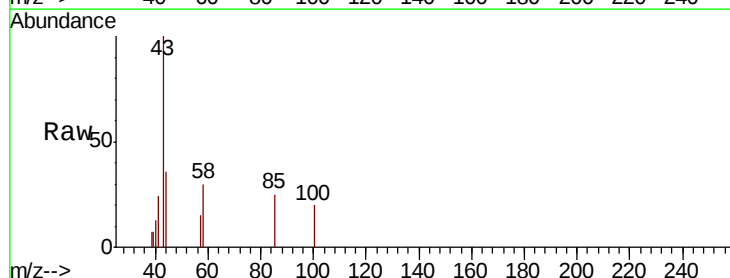
Acq: 23 Oct 2019 14:51

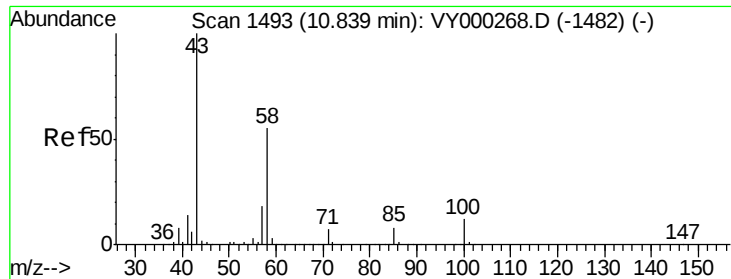
Tgt Ion: 43 Resp: 2379

Ion Ratio Lower Upper

43 100

58 49.5 31.0 46.6#





#59

2-Hexanone

Concen: 7.624 ug/l

RT: 10.84 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VY000380.D

Acq: 23 Oct 2019 14:51

Instrument :

MSVOA_Y

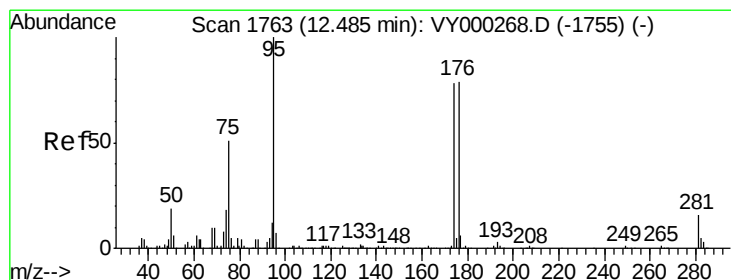
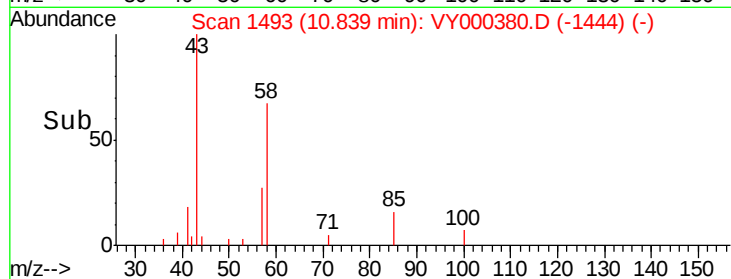
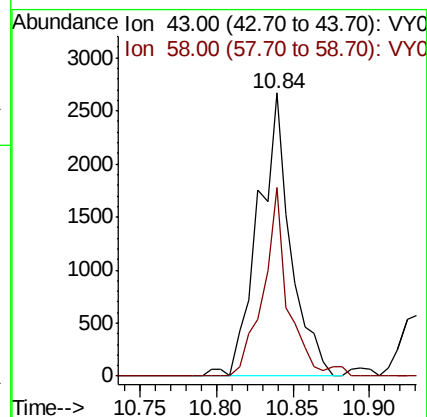
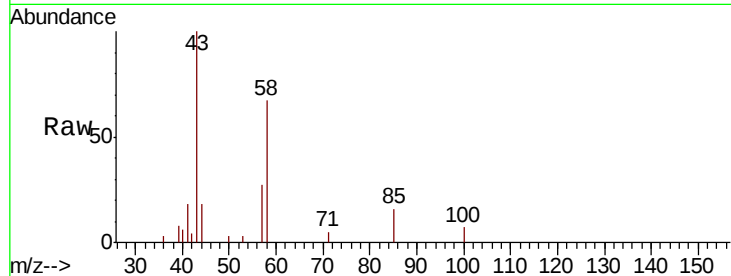
ClientSampleId :

Tot Ion: 43 Resp: 3934

Ion Ratio Lower Upper

43 100

58 51.4 27.7 83.1



#62

4-Bromofluorobenzene

Concen: 41.577 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.01 min

Lab File: VY000380.D

Acq: 23 Oct 2019 14:51

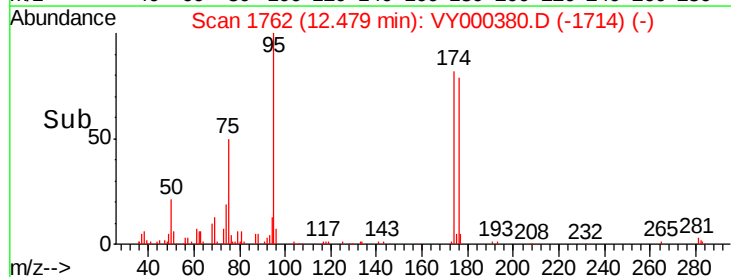
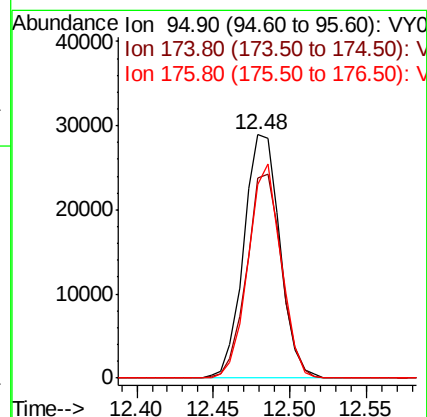
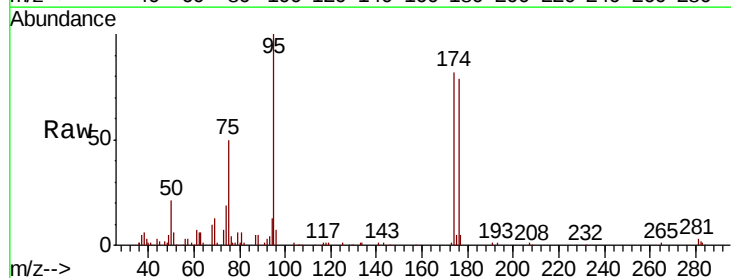
Tgt Ion: 95 Resp: 47391

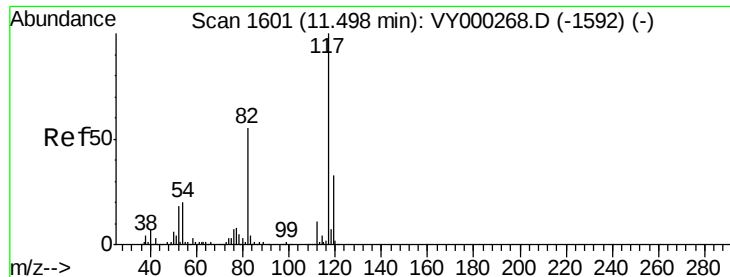
Ion Ratio Lower Upper

95 100

174 81.0 0.0 159.6

176 80.4 0.0 153.8

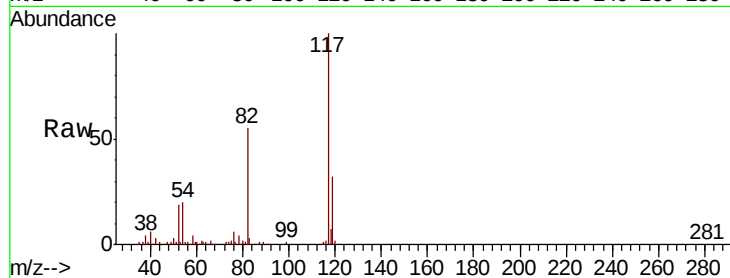




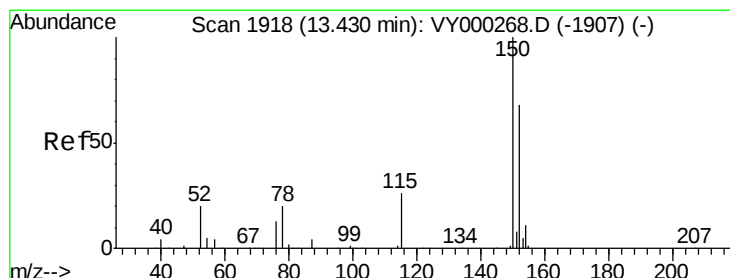
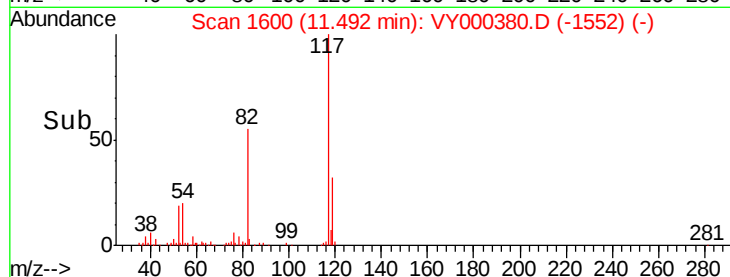
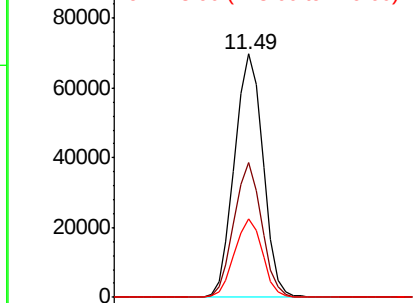
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 112788
Ion Ratio Lower Upper
117 100
82 55.3 43.7 65.5
119 32.1 26.6 39.8

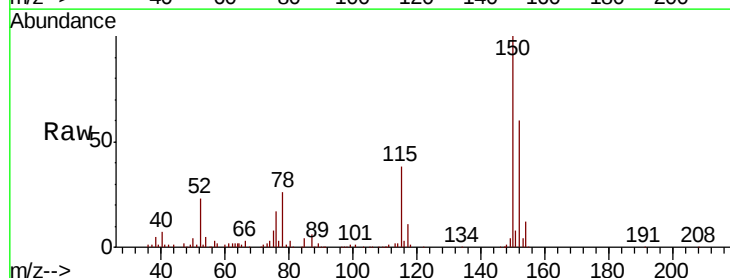


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

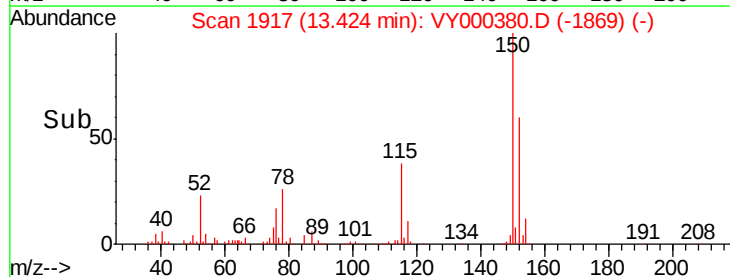
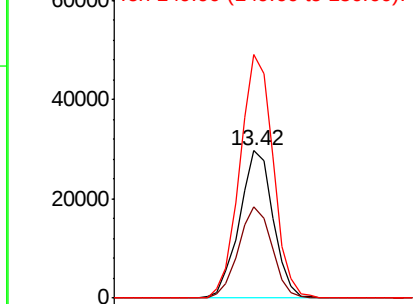


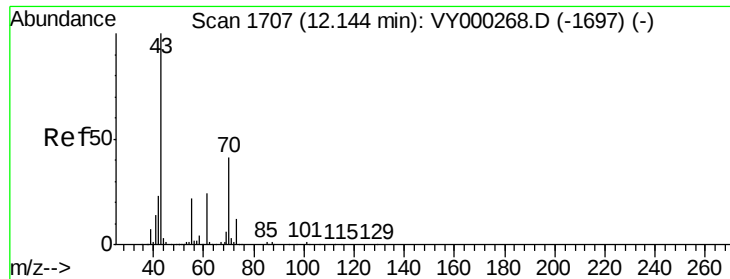
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

Tgt Ion:152 Resp: 45469
Ion Ratio Lower Upper
152 100
115 61.4 29.3 88.0
150 162.8 0.0 348.4



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





#74

N-amvl acetate

Concen: 2.109 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VY000380.D

Acq: 23 Oct 2019 14:51

Instrument :

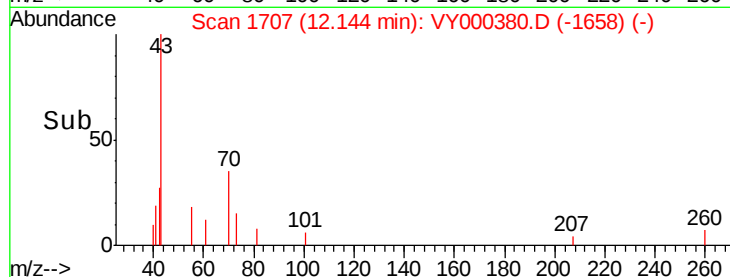
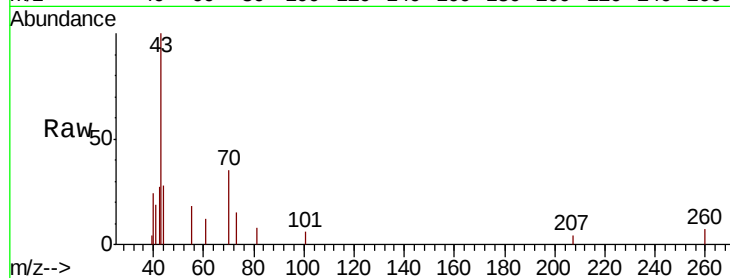
MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 1836

Ion Ratio Lower Upper

43	100		
70	43.9	32.9	49.3
55	23.0	17.8	26.6
61	13.9	19.5	29.3

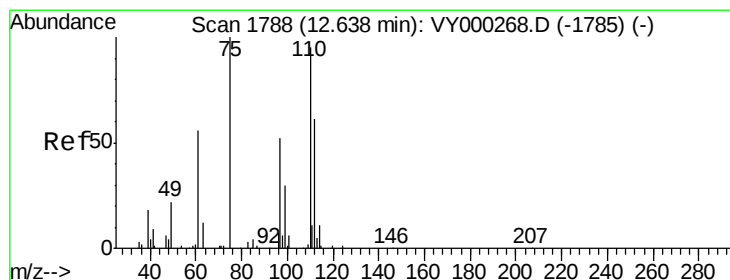
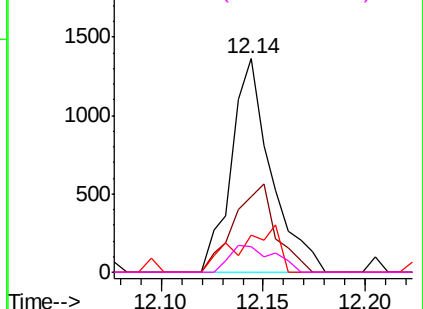


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0



#76

1,2,3-Trichloropropane

Concen: 43.294 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.16 min

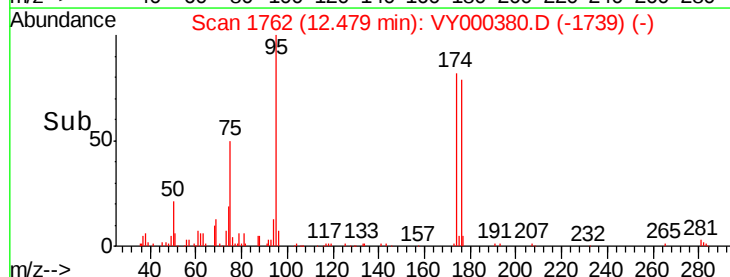
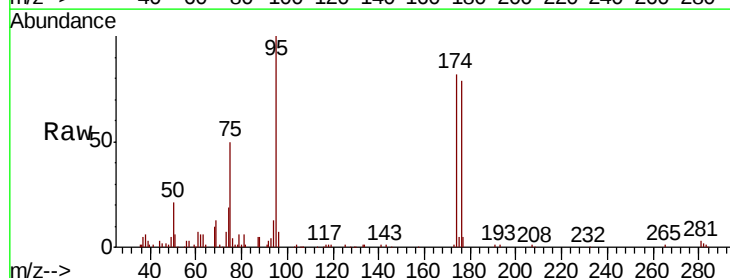
Lab File: VY000380.D

Acq: 23 Oct 2019 14:51

Tgt Ion: 75 Resp: 24206

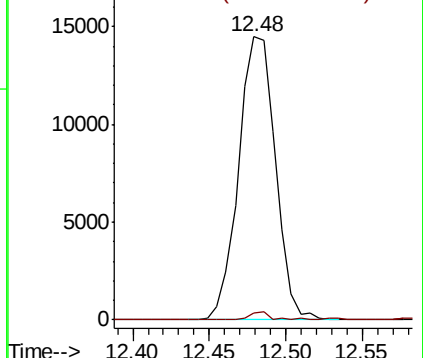
Ion Ratio Lower Upper

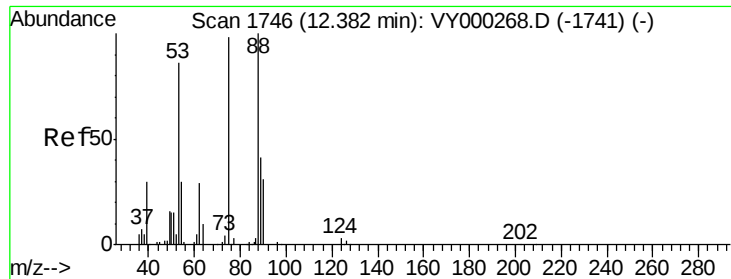
75	100		
77	1.7	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

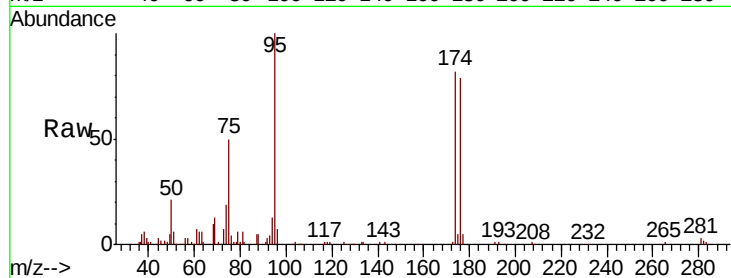




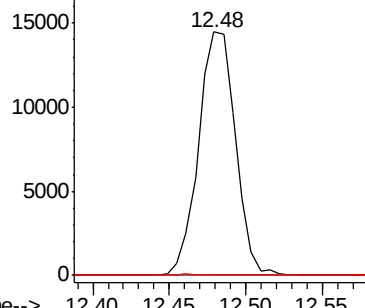
#81
trans-1,4-Dichloro-2-butene
Concen: 94.725 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.10 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

Instrument :
MSVOA_Y
ClientSampleId :

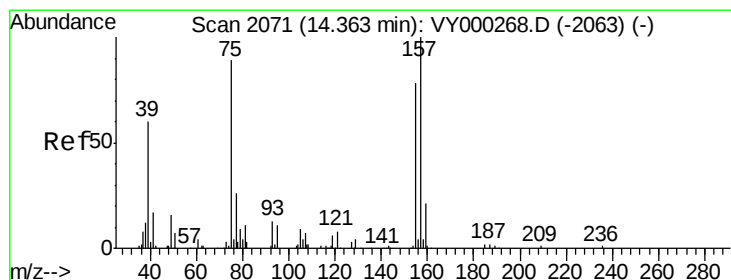
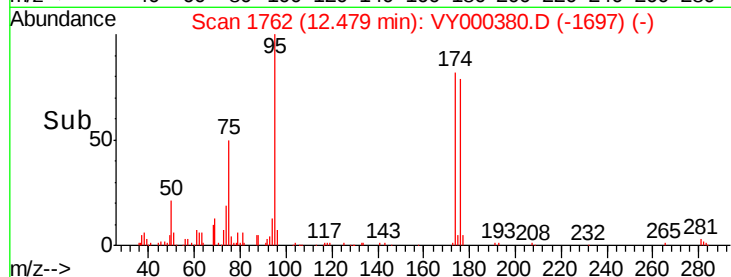
Tot Ion: 75 Resp: 24206
Ion Ratio Lower Upper
75 100
53 0.0 71.3 106.9#
89 0.1 35.1 52.7#



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

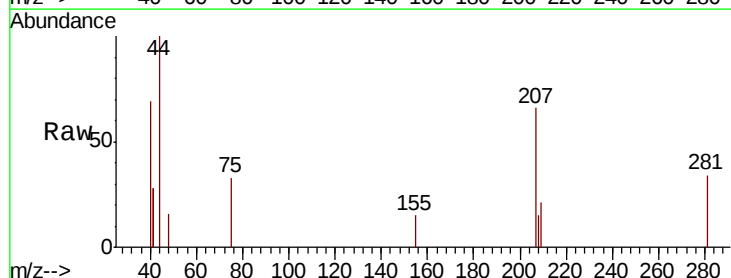


Time--> 12.40 12.45 12.50 12.55

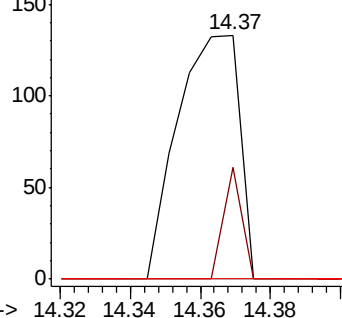


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.291 ug/l
RT: 14.37 min Scan# 2072
Delta R.T. 0.01 min
Lab File: VY000380.D
Acq: 23 Oct 2019 14:51

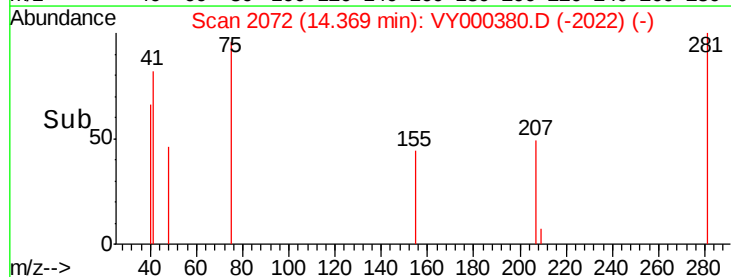
Tgt Ion: 75 Resp: 163
Ion Ratio Lower Upper
75 100
155 13.5 45.8 137.3#
157 0.0 55.6 166.9#

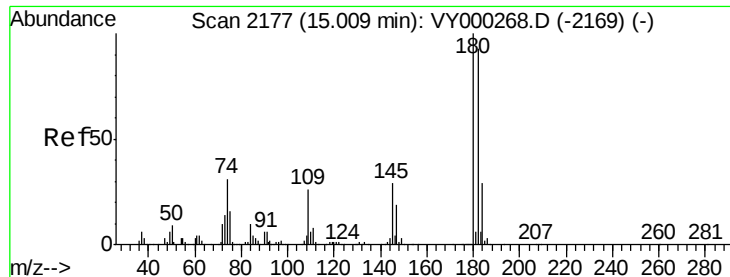


Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V



Time--> 14.32 14.34 14.36 14.38

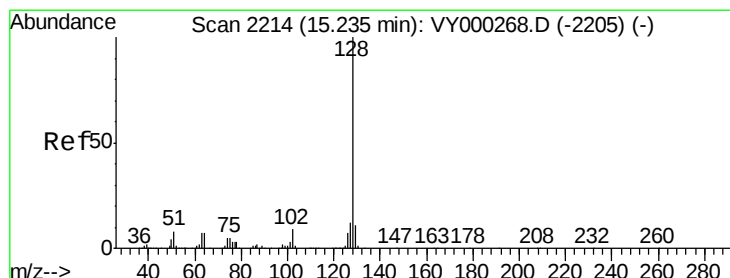
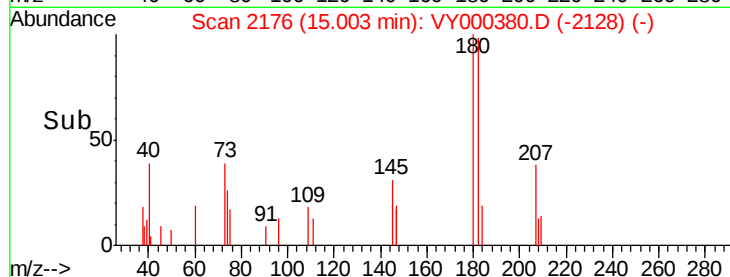
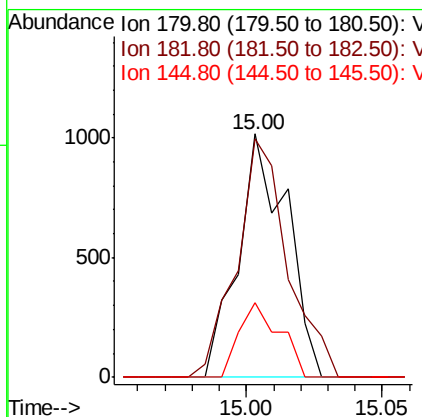
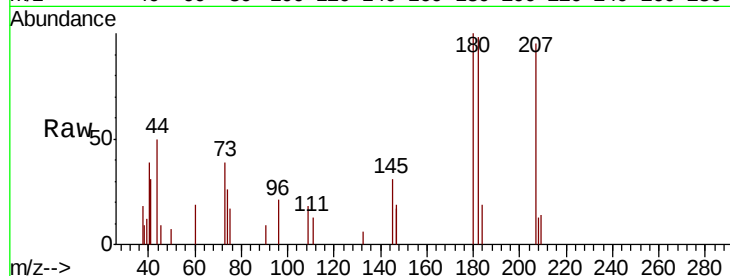




#93
 1,2,4-Trichlorobenzene
 Concen: 1.295 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY000380.D
 Acq: 23 Oct 2019 14:51

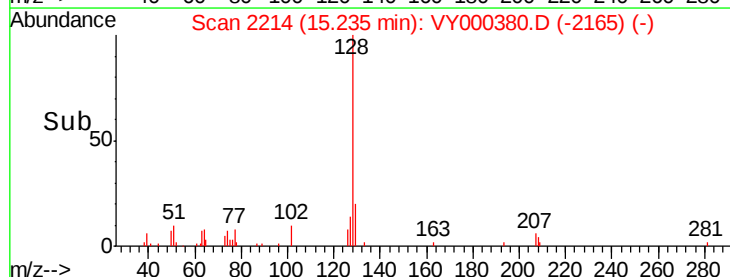
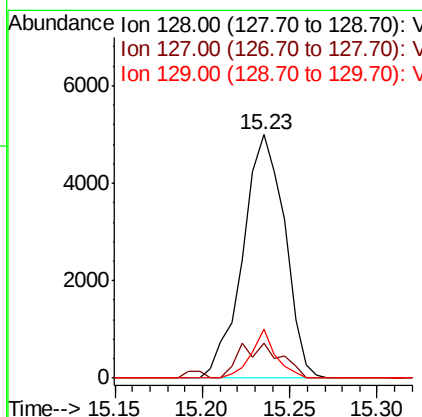
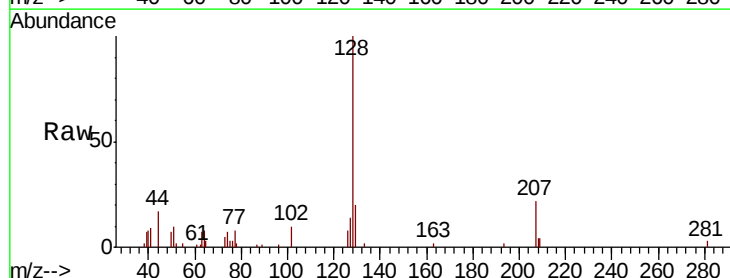
Instrument :
 MSVOA_Y
 ClientSampleId :

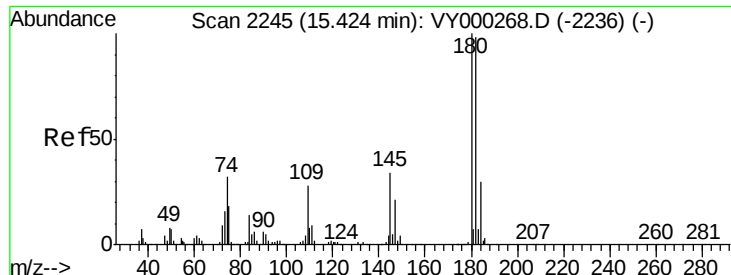
Tot Ion	Ratio	Lower	Upper
180	100		
182	102.2	47.5	142.6
145	25.2	15.4	46.1



#95
 Naphthalene
 Concen: 3.808 ug/l
 RT: 15.23 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VY000380.D
 Acq: 23 Oct 2019 14:51

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.1	9.6	14.4
129	11.7	8.7	13.1

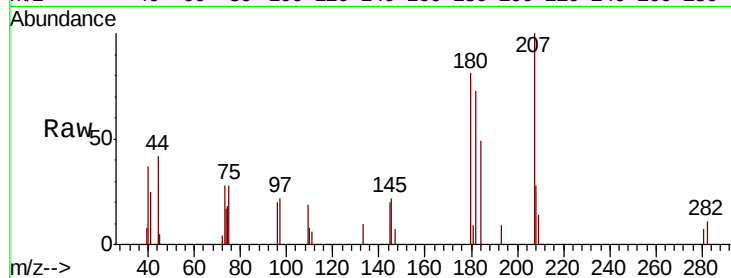




#96
 1,2,3-Trichlorobenzene
 Concen: 1.525 ug/l
 RT: 15.42 min Scan# 2244
 Delta R.T. -0.01 min
 Lab File: VY000380.D
 Acq: 23 Oct 2019 14:51

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.9	46.5	139.5
145	42.3	16.2	48.5



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

