

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120519\
 Data File : VY000879.D
 Acq On : 05 Dec 2019 13:48
 Operator : SY/MD
 Sample : K6147-03
 Misc : 5.87G/5ML/MSVOA Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 P001-WC003

Quant Time: Dec 06 04:00:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y112719S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 12:40:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	226212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	418530	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	372998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	155476	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	138524	57.63	ug/l	0.00
Spiked Amount			Recovery	=	115.26%	
35) Dibromofluoromethane	7.73	113	122438	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
50) Toluene-d8	10.18	98	499970	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
62) 4-Bromofluorobenzene	12.48	95	160640	43.86	ug/l	0.00
Spiked Amount			Recovery	=	87.72%	

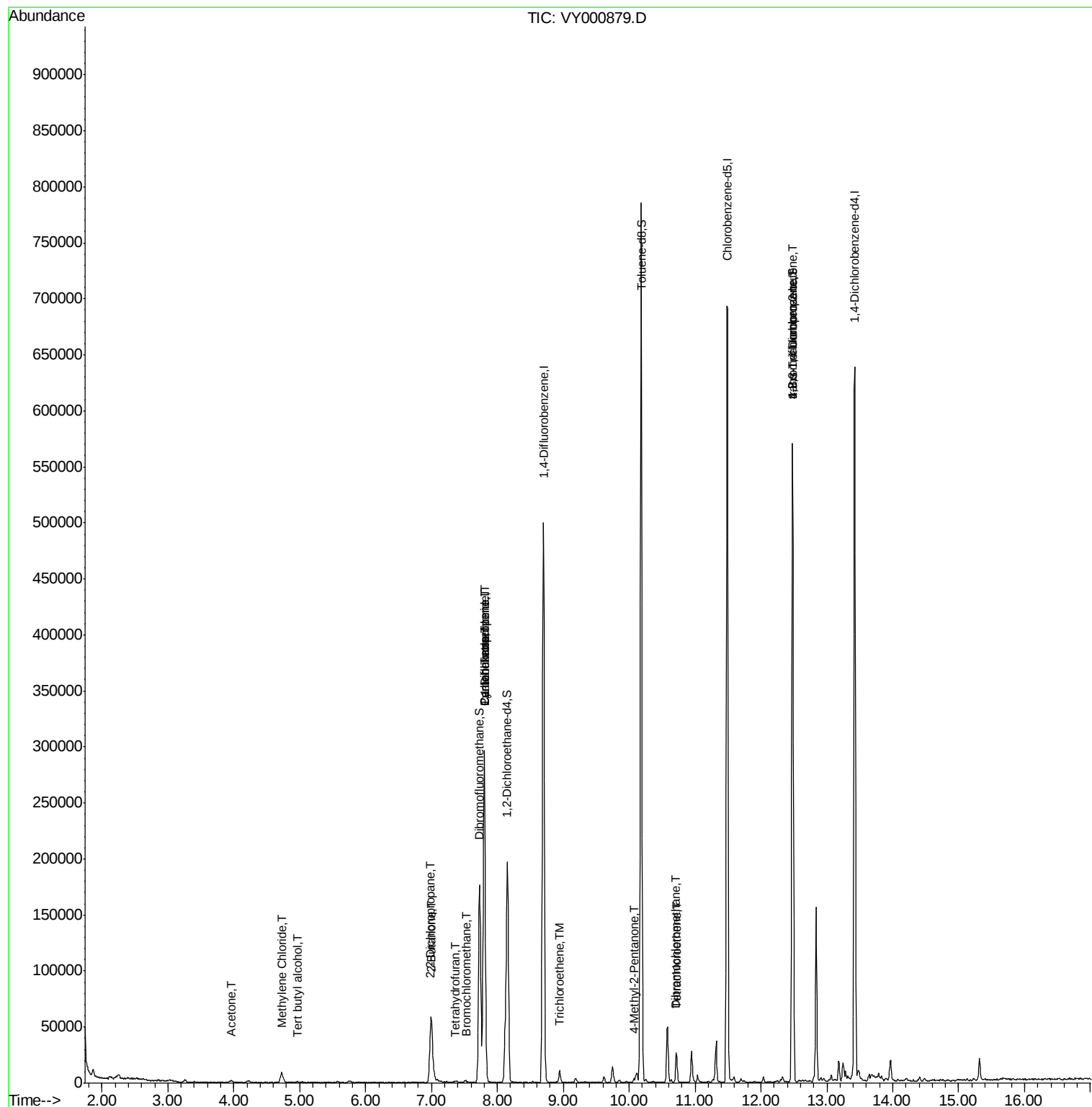
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.65	94	242	Below Cal	#	3
11) Tert butyl alcohol	4.96	59	1920	7.939	ug/l #	74
16) Acetone	3.96	43	3490	6.329	ug/l	90
20) Methylene Chloride	4.72	84	6147	2.115	ug/l	87
25) 2-Butanone	7.00	43	3865	3.794	ug/l #	75
26) 2,2-Dichloropropane	6.98	77	4566	1.126	ug/l #	51
28) Bromochloromethane	7.53	49	30	2.032	ug/l #	15
29) Tetrahydrofuran	7.36	42	736	1.090	ug/l #	86
31) Cyclohexane	7.80	56	5627	1.103	ug/l #	5
36) 1,1-Dichloropropene	7.80	75	19522	4.691	ug/l #	48
38) Carbon Tetrachloride	7.80	117	21280	5.742	ug/l #	15
44) Trichloroethene	8.94	130	3570	1.146	ug/l	82
51) 4-Methyl-2-Pentanone	10.08	43	2732	1.168	ug/l	99
60) Dibromochloromethane	10.72	129	4675	1.848	ug/l #	10
64) Tetrachloroethene	10.72	164	5216	1.610	ug/l #	80
76) 1,2,3-Trichloropropane	12.48	75	85235	48.387	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	85235	95.046	ug/l #	17

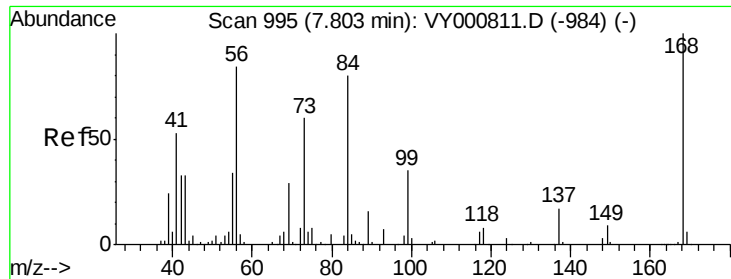
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY000879.D

Acq: 05 Dec 2019 13:48

Instrument :

MSVOA_Y

ClientSampleId :

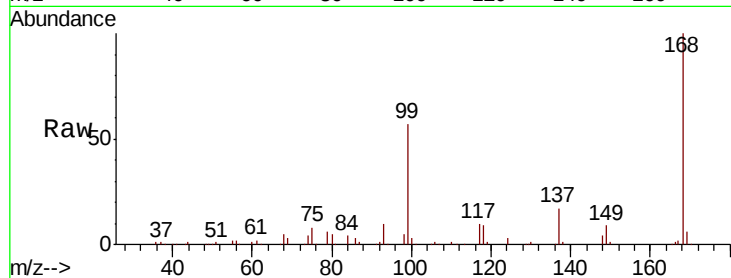
P001-WC003

Tot Ion:168 Resp: 226212

Ion Ratio Lower Upper

168 100

99 56.9 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000811.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000811.D (-984) (-)

7.80

100000

80000

60000

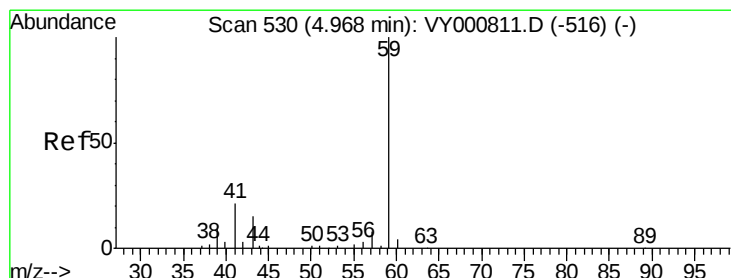
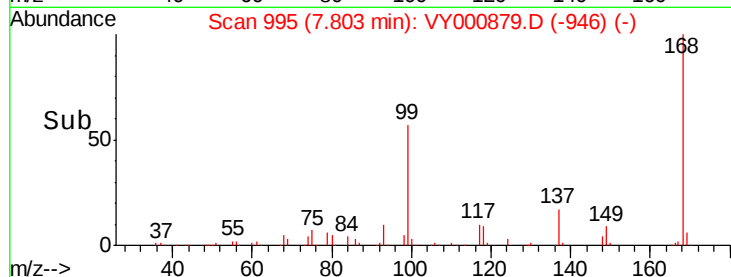
40000

20000

0

Time-->

7.70 7.75 7.80 7.85 7.90



#11

Tert butyl alcohol

Concen: 7.939 ug/l

RT: 4.96 min Scan# 529

Delta R.T. -0.01 min

Lab File: VY000879.D

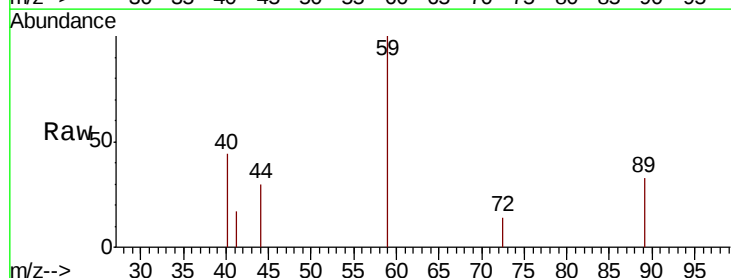
Acq: 05 Dec 2019 13:48

Tgt Ion: 59 Resp: 1920

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY000811.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VY000811.D (-516) (-)

4.96

600

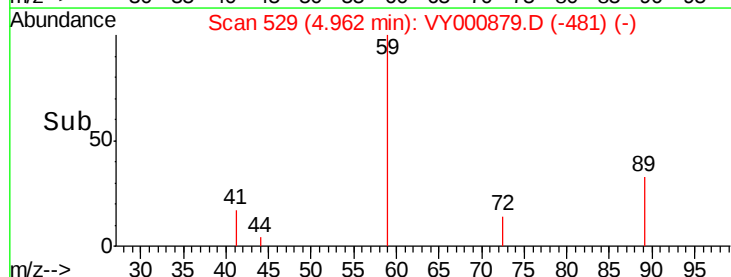
400

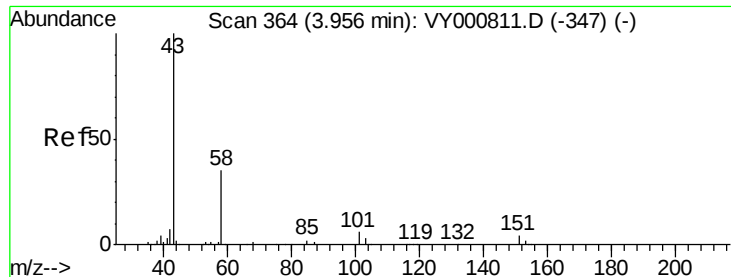
200

0

Time-->

4.85 4.90 4.95 5.00 5.05





#16

Acetone

Concen: 6.329 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VY000879.D

Acq: 05 Dec 2019 13:48

Instrument :

MSVOA_Y

ClientSampleId :

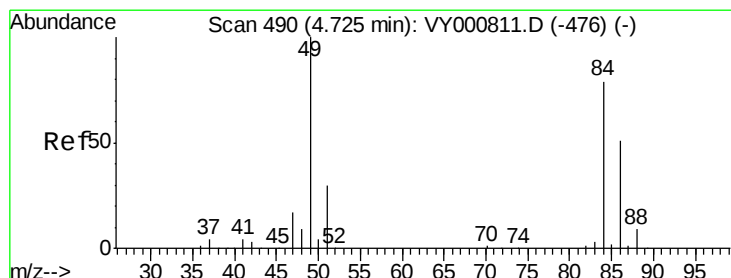
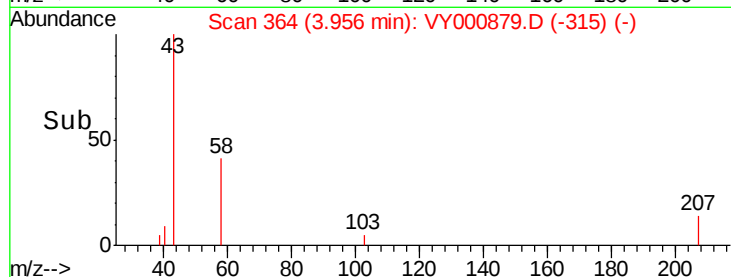
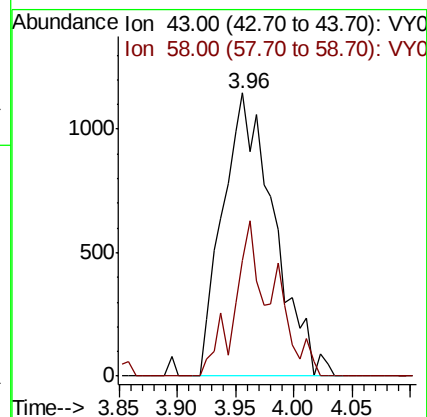
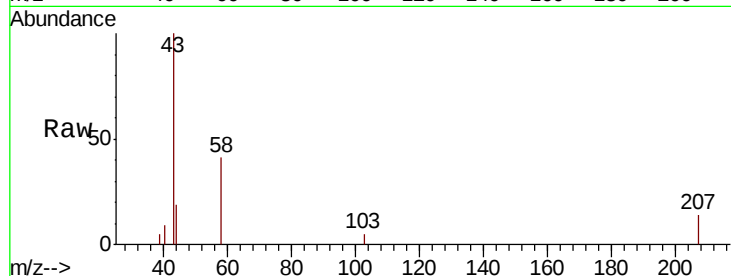
P001-WC003

Tot Ion: 43 Resp: 3490

Ion Ratio Lower Upper

43 100

58 41.0 28.0 42.0



#20

Methylene Chloride

Concen: 2.115 ug/l

RT: 4.72 min Scan# 490

Delta R.T. -0.00 min

Lab File: VY000879.D

Acq: 05 Dec 2019 13:48

Tgt Ion: 84 Resp: 6147

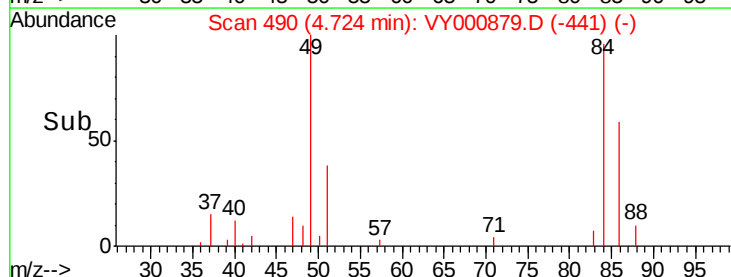
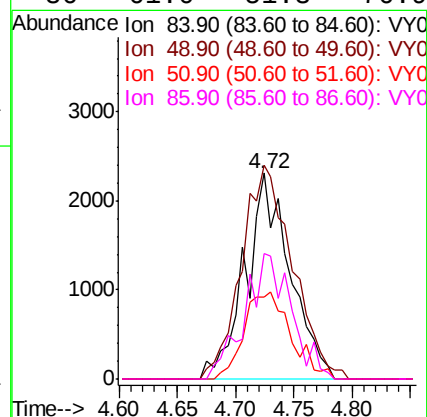
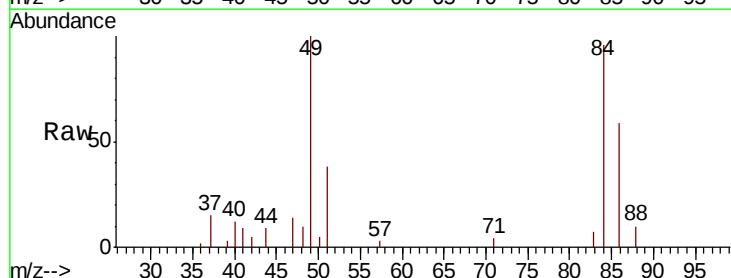
Ion Ratio Lower Upper

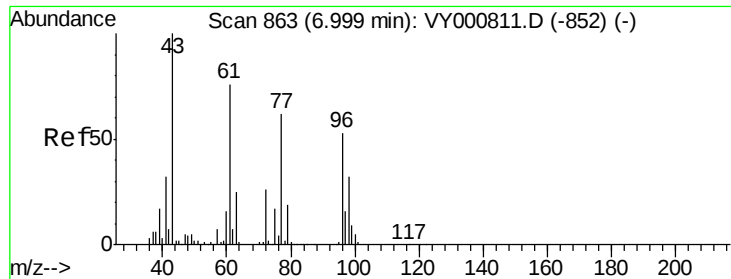
84 100

49 103.7 101.3 151.9

51 39.9 30.6 45.8

86 61.0 51.3 76.9





#25

2-Butanone

Concen: 3.794 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.00 min

Lab File: VY000879.D

Acq: 05 Dec 2019 13:48

Instrument :

MSVOA_Y

ClientSampleId :

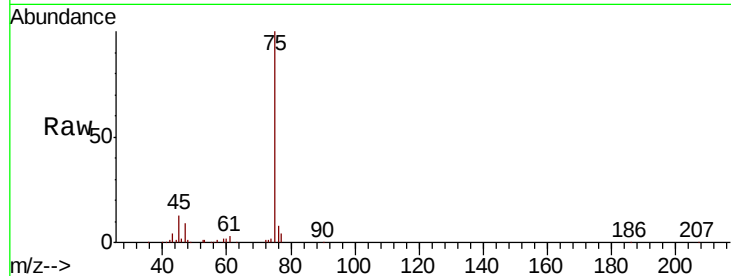
P001-WC003

Tot Ion: 43 Resp: 3865

Ion Ratio Lower Upper

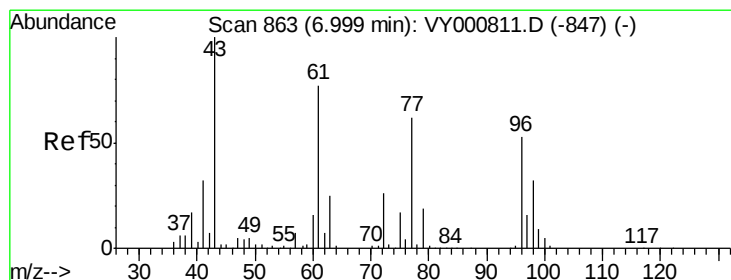
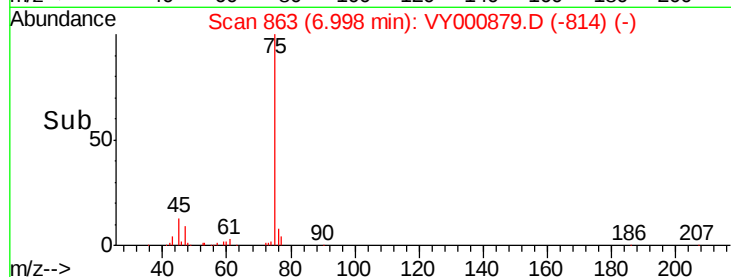
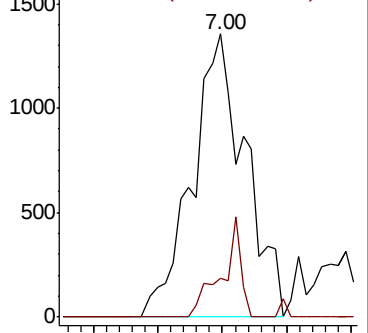
43 100

72 13.7 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#26

2,2-Dichloropropane

Concen: 1.126 ug/l

RT: 6.98 min Scan# 860

Delta R.T. -0.02 min

Lab File: VY000879.D

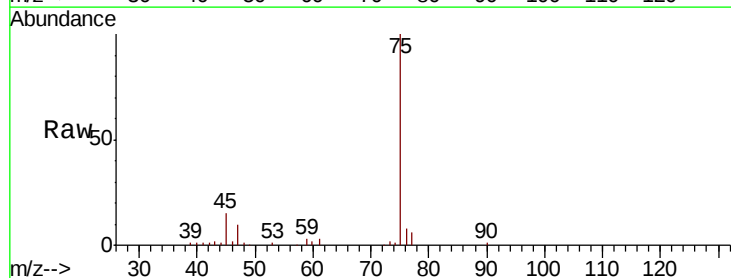
Acq: 05 Dec 2019 13:48

Tgt Ion: 77 Resp: 4566

Ion Ratio Lower Upper

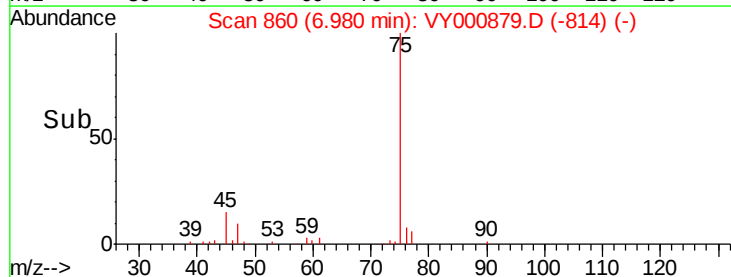
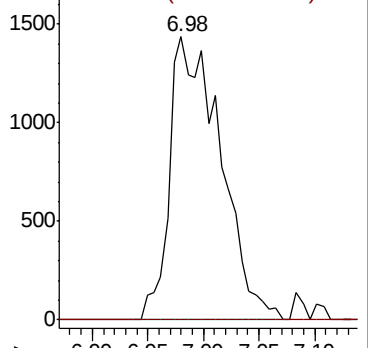
77 100

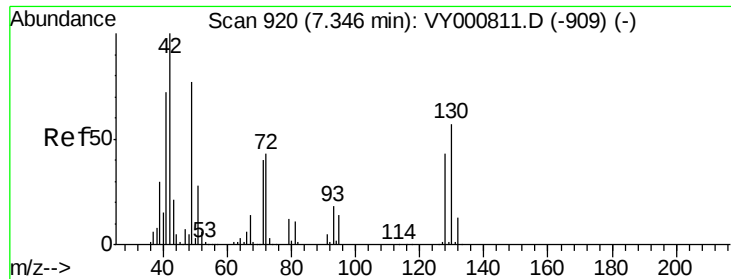
97 0.0 11.9 35.9#



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0

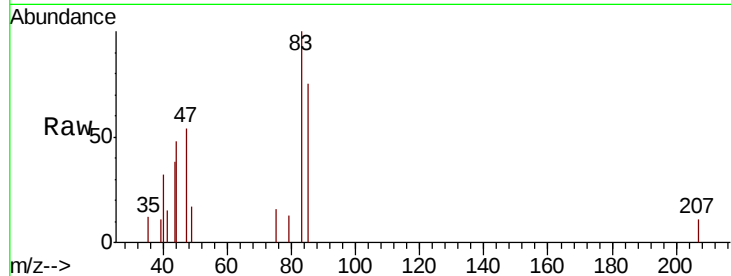




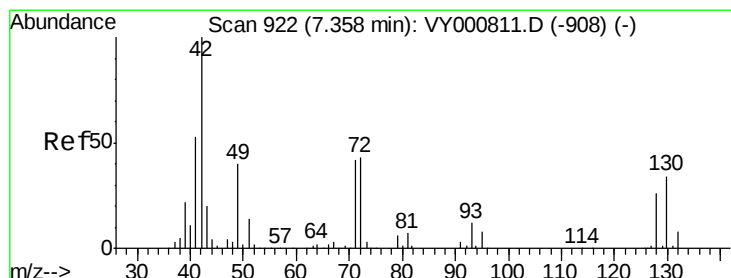
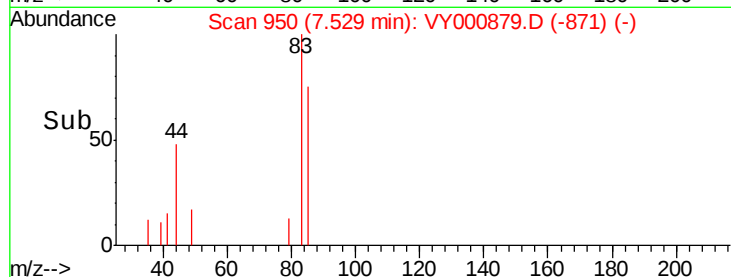
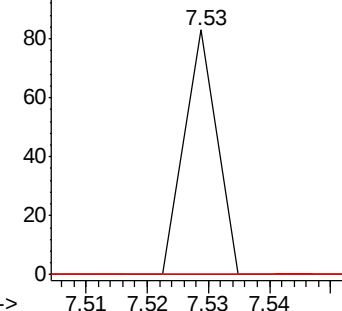
#28
Bromochloromethane
Concen: 2.032 ug/l
RT: 7.53 min Scan# 950
Delta R.T. 0.18 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

Instrument :
MSVOA_Y
ClientSampled :
P001-WC003

Tot Ion: 49 Resp: 30
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 58.7 88.1#

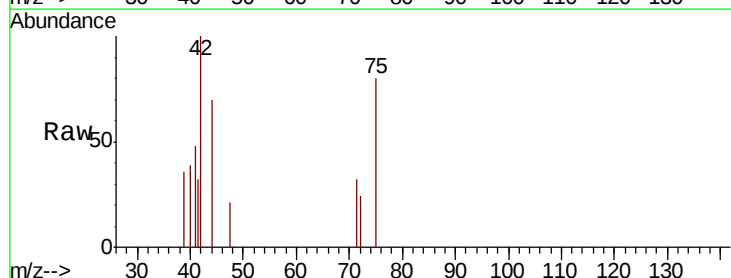


Abundance Ion 48.90 (48.60 to 49.60): VY0
Ion 128.80 (128.50 to 129.50): VY0
Ion 129.80 (129.50 to 130.50): VY0

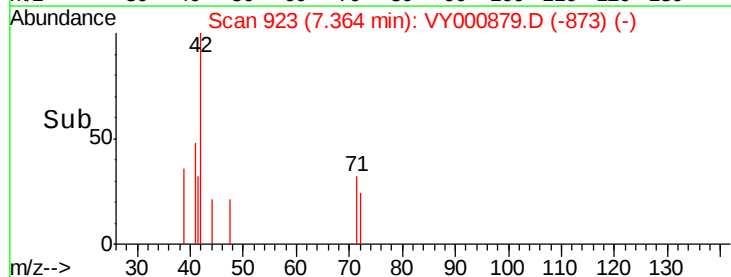
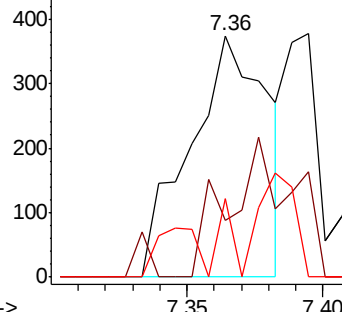


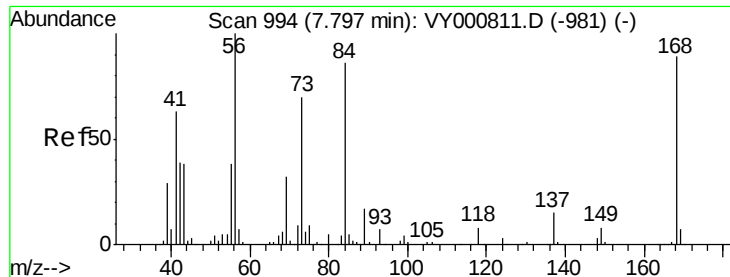
#29
Tetrahydrofuran
Concen: 1.090 ug/l
RT: 7.36 min Scan# 923
Delta R.T. 0.01 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

Tgt Ion: 42 Resp: 736
Ion Ratio Lower Upper
42 100
72 47.7 35.1 52.7
71 26.4 32.8 49.2#



Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0

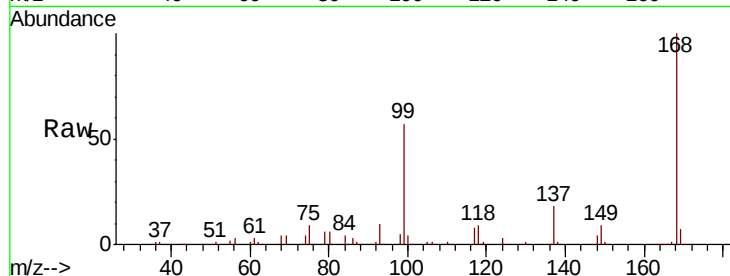




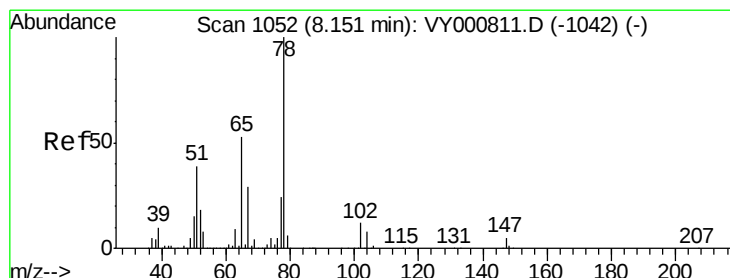
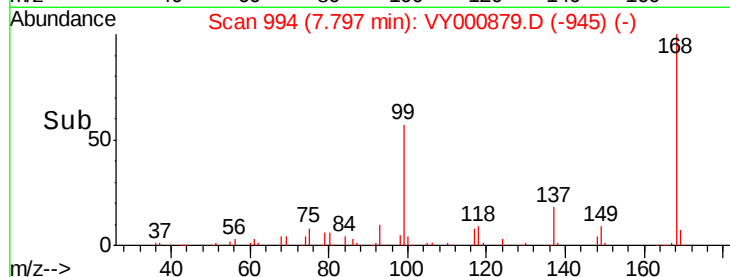
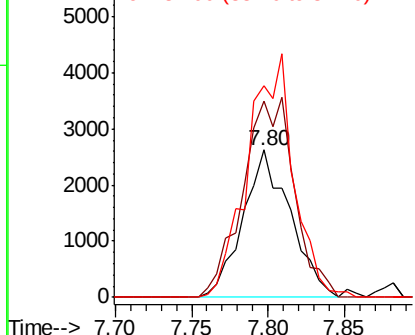
#31
Cyclohexane
Concen: 1.103 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.00 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

Instrument :
MSVOA_Y
ClientSampleId :
P001-WC003

Tot Ion: 56 Resp: 5627
Ion Ratio Lower Upper
56 100
69 133.0 25.9 38.9#
84 143.6 68.6 102.8#

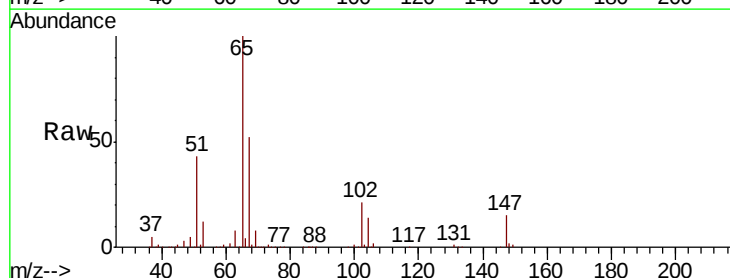


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

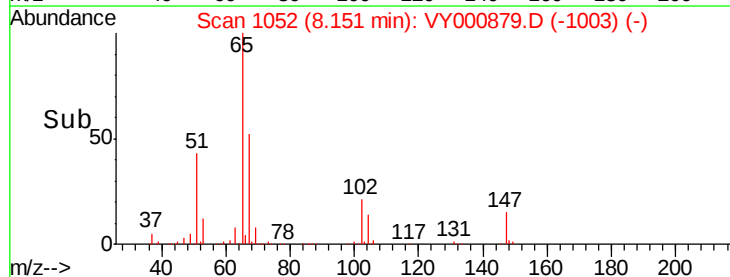
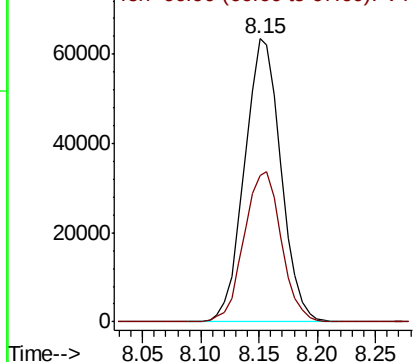


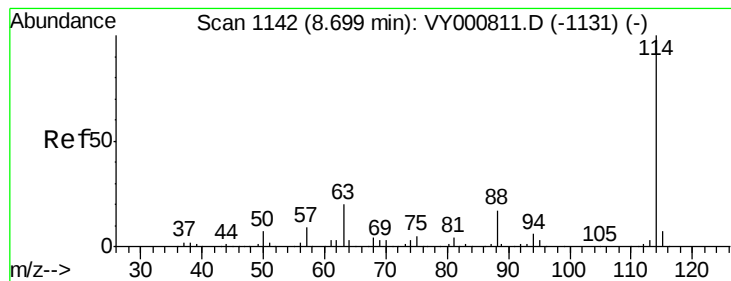
#33
1,2-Dichloroethane-d4
Concen: 57.630 ug/l
RT: 8.15 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

Tgt Ion: 65 Resp: 138524
Ion Ratio Lower Upper
65 100
67 54.4 0.0 112.0



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: 8.70 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VY000879.D

Acq: 05 Dec 2019 13:48

Instrument :

MSVOA_Y

ClientSampleId :

P001-WC003

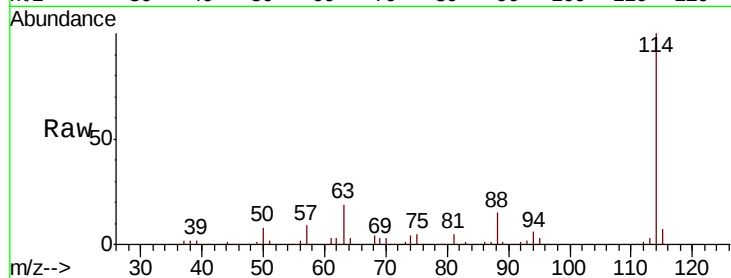
Tot Ion:114 Resp: 418530

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.8

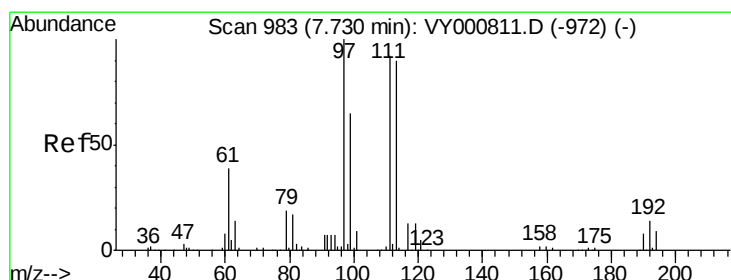
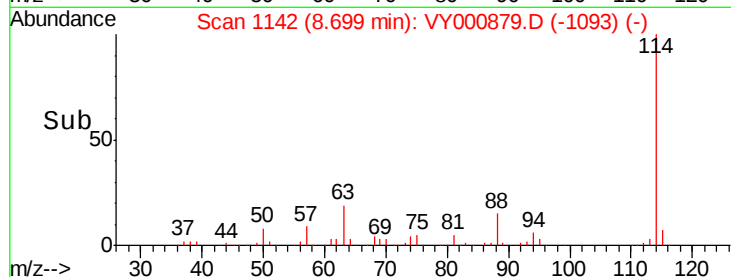
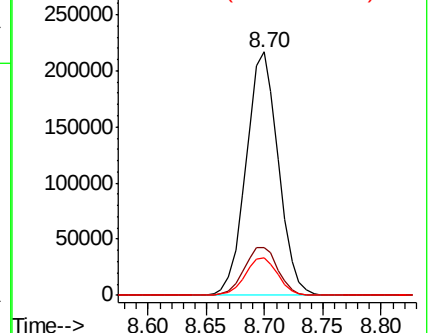
88 15.3 0.0 33.2



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: 50.196 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY000879.D

Acq: 05 Dec 2019 13:48

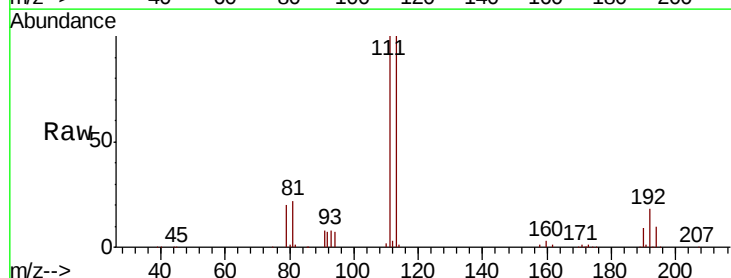
Tgt Ion:113 Resp: 122438

Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

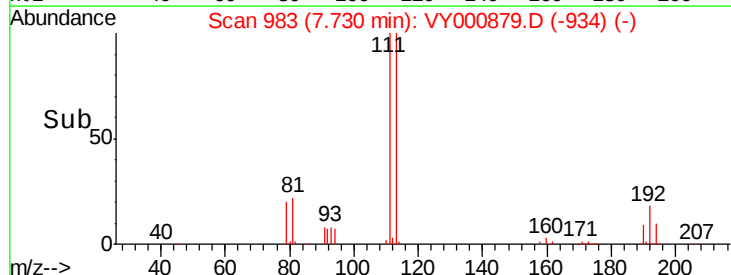
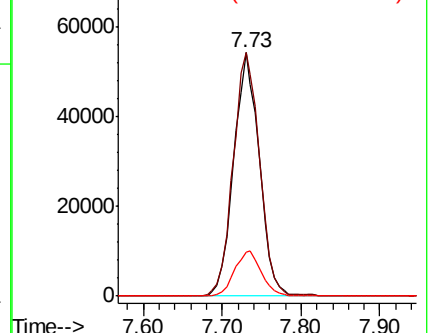
192 19.1 14.2 21.2

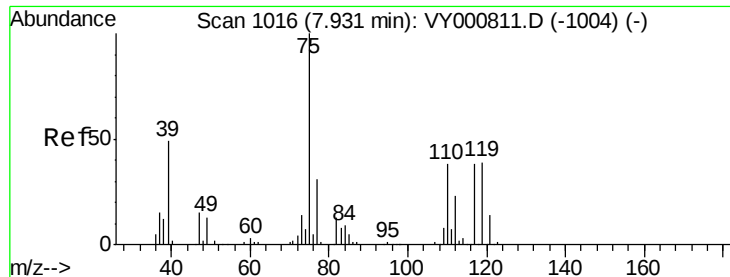


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

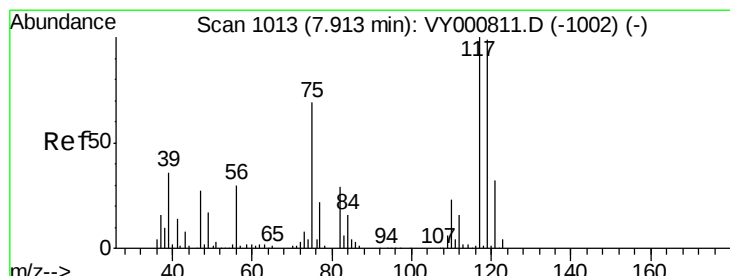
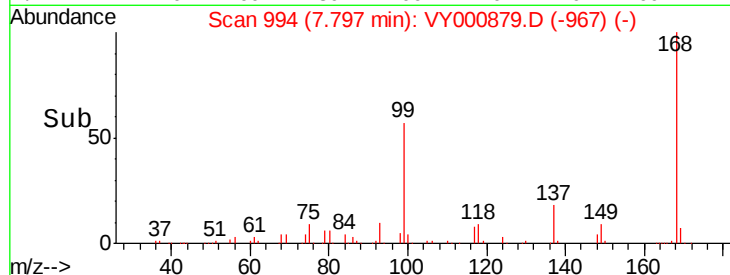
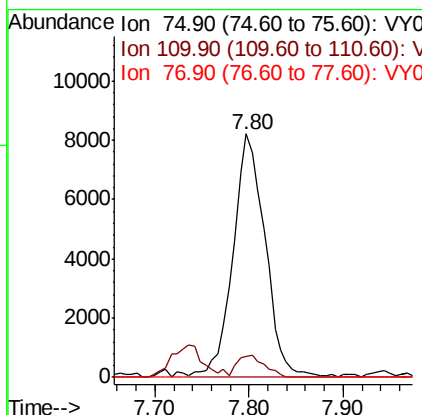
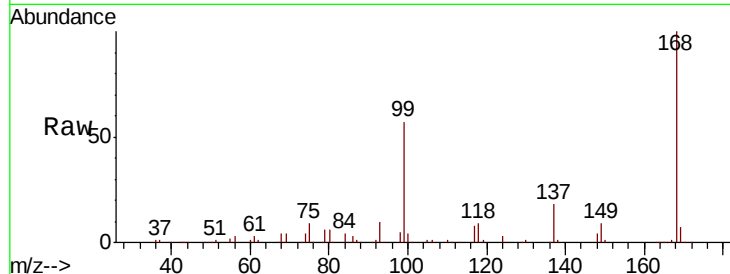




#36
 1,1-Dichloropropene
 Concen: 4.691 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY000879.D
 Acq: 05 Dec 2019 13:48

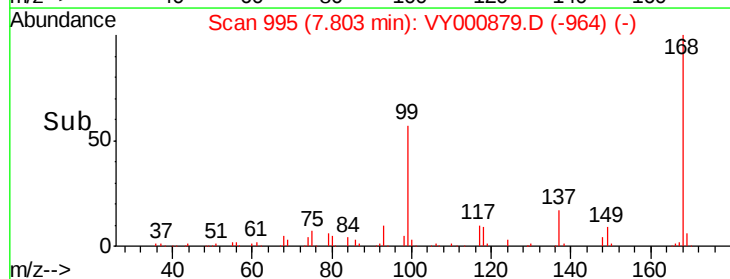
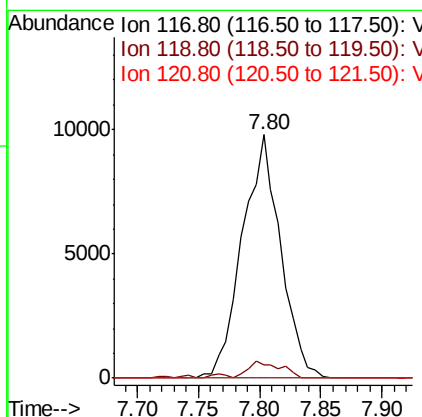
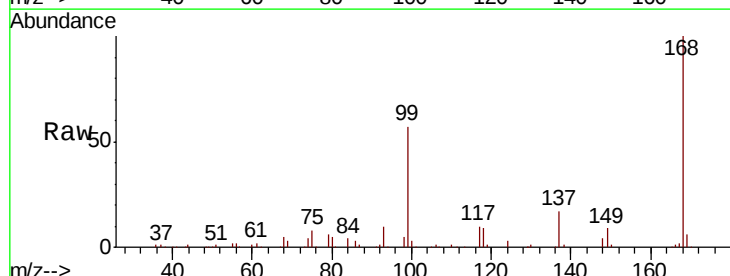
Instrument :
 MSVOA_Y
 ClientSampleId :
 P001-WC003

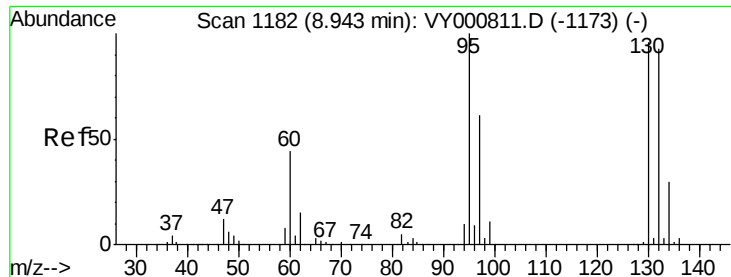
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.7	17.9	53.7#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 5.742 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.11 min
 Lab File: VY000879.D
 Acq: 05 Dec 2019 13:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	79.3	118.9#
121	0.0	25.5	38.3#





#44

Trichloroethene

Concen: 1.146 ug/l

RT: 8.94 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VY000879.D

Acq: 05 Dec 2019 13:48

Instrument :

MSVOA_Y

ClientSampleId :

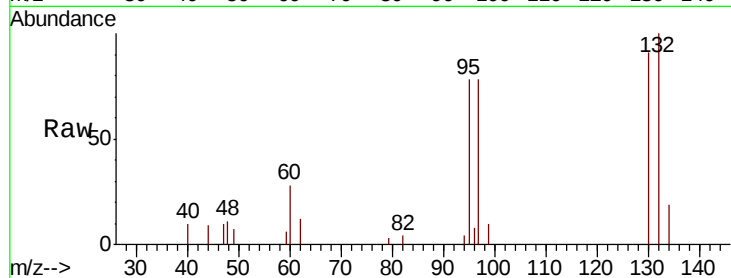
P001-WC003

Tot Ion:130 Resp: 3570

Ion Ratio Lower Upper

130 100

95 86.0 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VY000811.D (-1173) (-)

Ion 94.90 (94.60 to 95.60): VY000811.D (-1173) (-)

8.94

2500

2000

1500

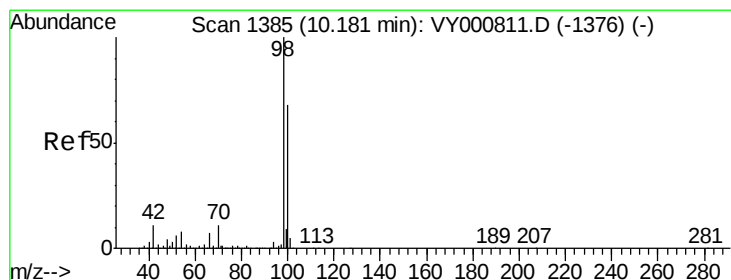
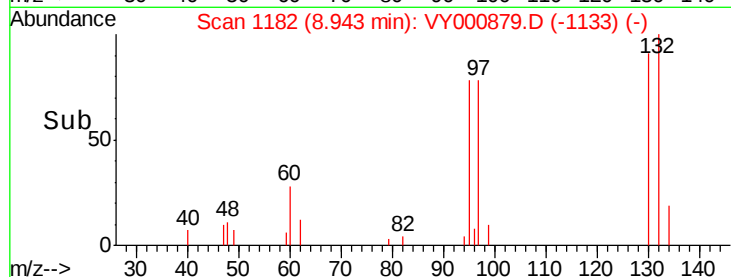
1000

500

0

8.90 8.95 9.00

Time-->



#50

Toluene-d8

Concen: 51.270 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000879.D

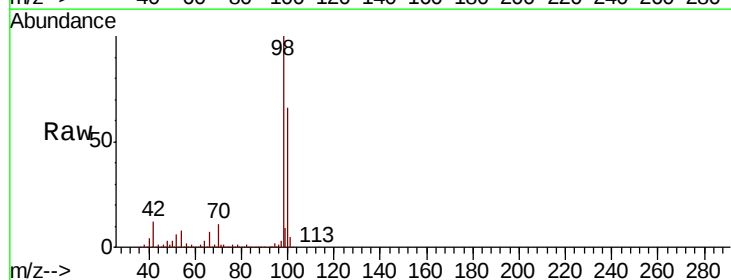
Acq: 05 Dec 2019 13:48

Tgt Ion: 98 Resp: 499970

Ion Ratio Lower Upper

98 100

100 66.0 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY000811.D (-1376) (-)

Ion 100.00 (99.70 to 100.70): VY000811.D (-1376) (-)

10.18

300000

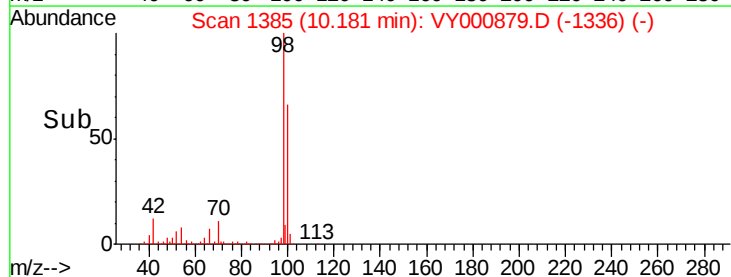
200000

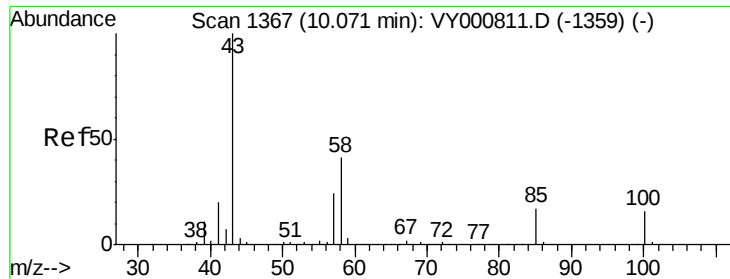
100000

0

10.10 10.20 10.30

Time-->

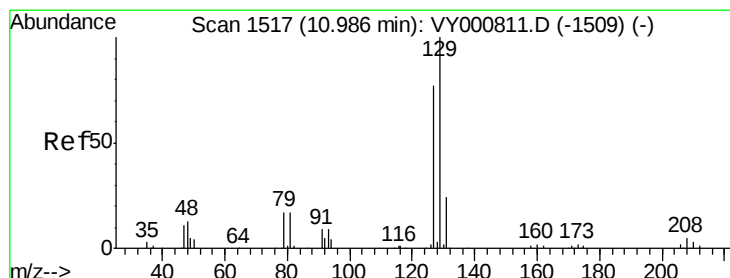
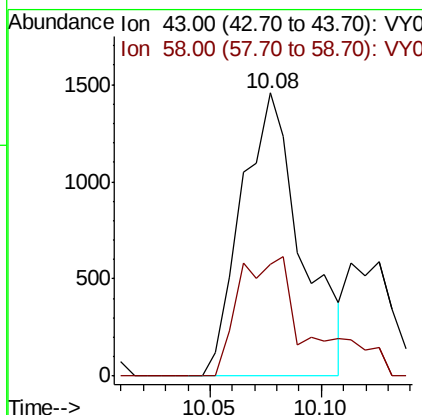
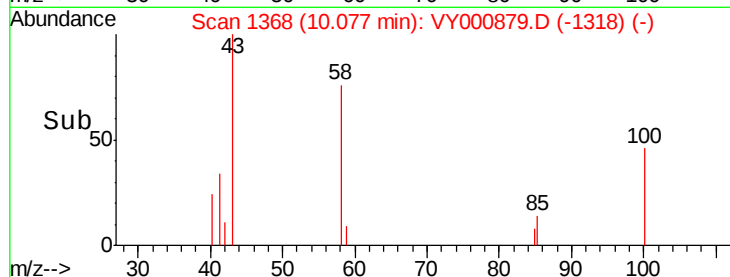
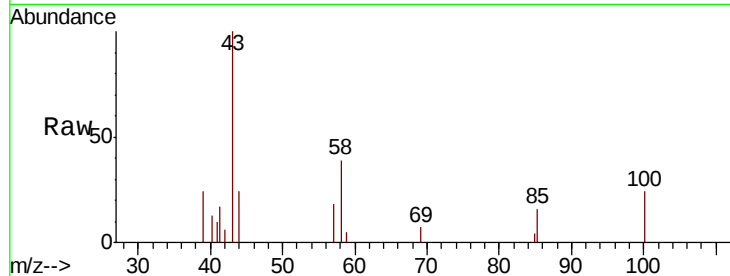




#51
4-Methyl-2-Pentanone
Concen: 1.168 ug/l
RT: 10.08 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

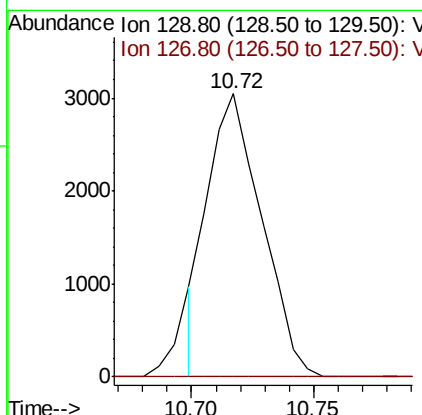
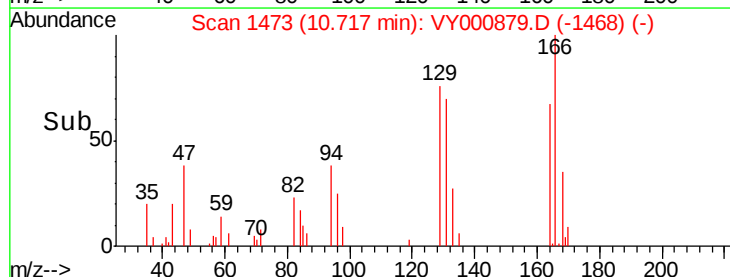
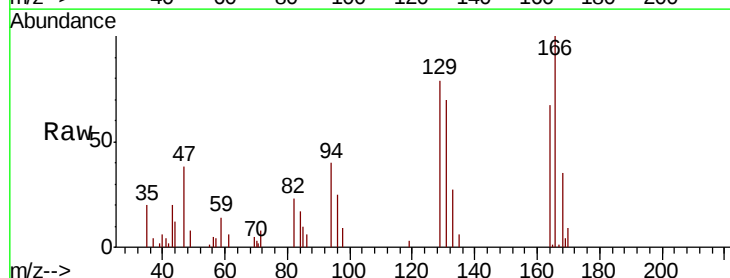
Instrument :
MSVOA_Y
ClientSampleId :
P001-WC003

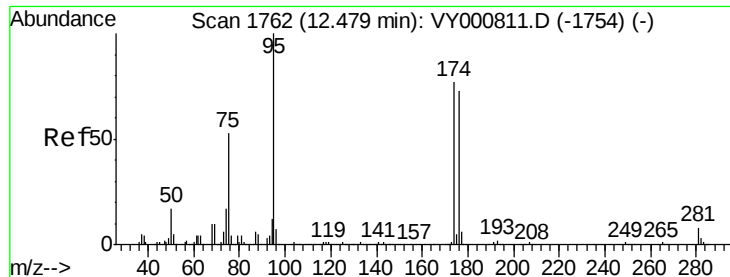
Tot Ion: 43 Resp: 2732
Ion Ratio Lower Upper
43 100
58 40.8 33.1 49.7



#60
Dibromochloromethane
Concen: 1.848 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. -0.27 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

Tgt Ion: 129 Resp: 4675
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#

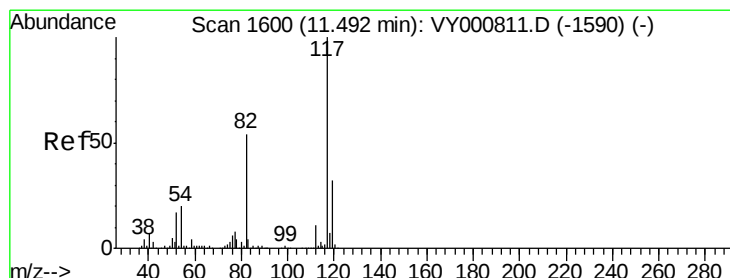
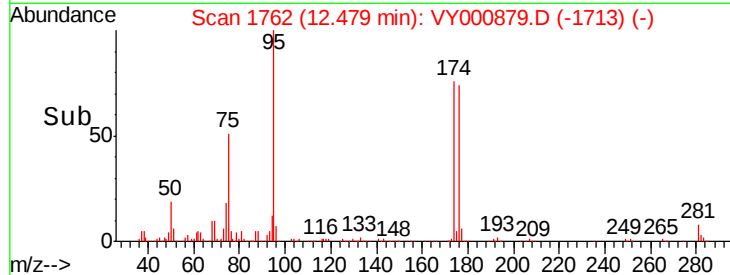
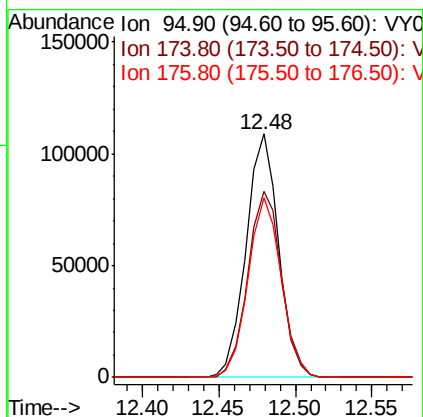
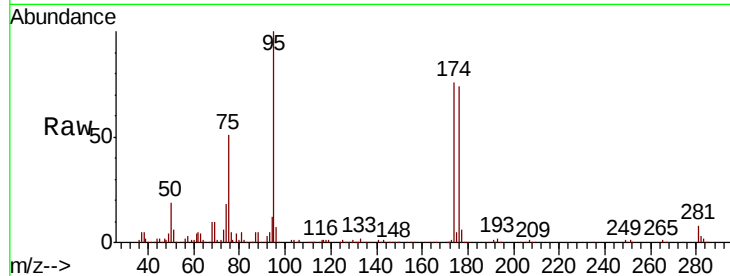




#62
4-Bromofluorobenzene
Concen: 43.863 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

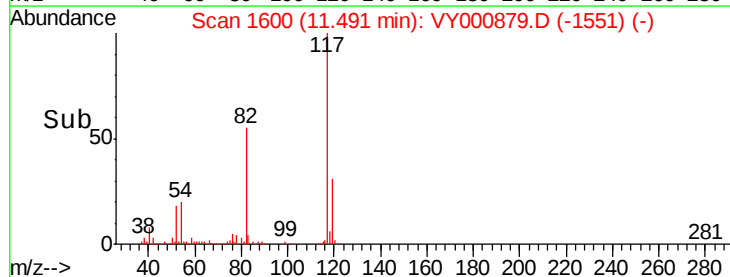
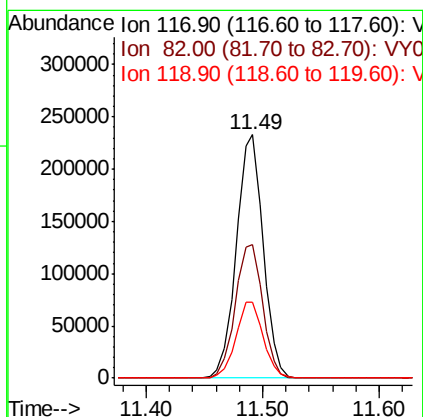
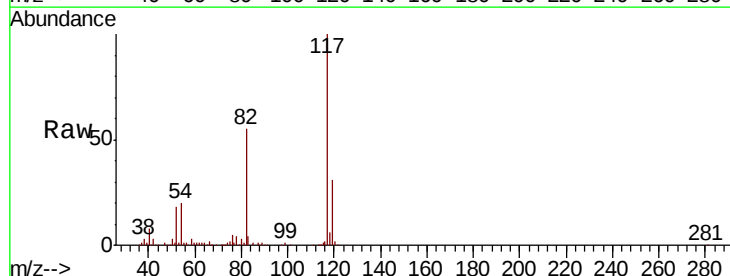
Instrument :
MSVOA_Y
ClientSampled :
P001-WC003

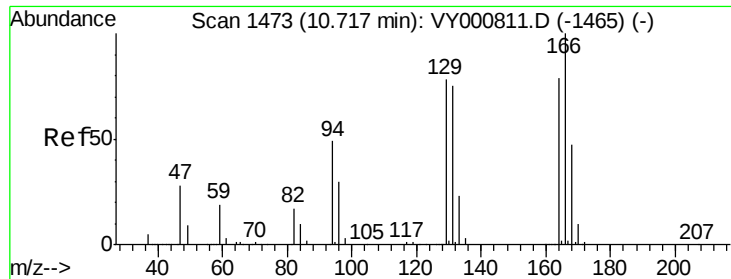
Tot Ion	95	Resp	160640
Ion Ratio	Lower	Upper	
95	100		
174	79.0	0.0	150.6
176	75.5	0.0	145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

Tgt Ion	117	Resp	372998
Ion Ratio	Lower	Upper	
117	100		
82	55.0	43.1	64.7
119	31.2	25.3	37.9

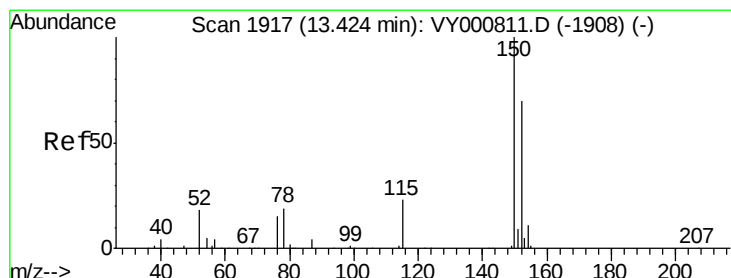
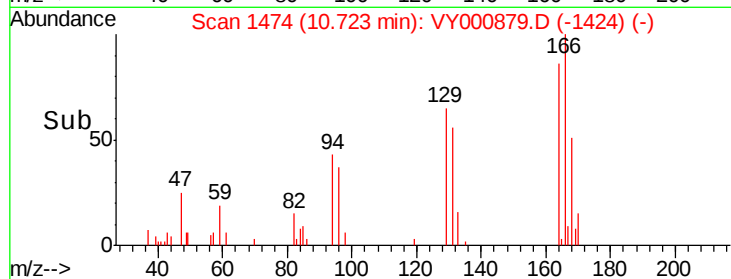
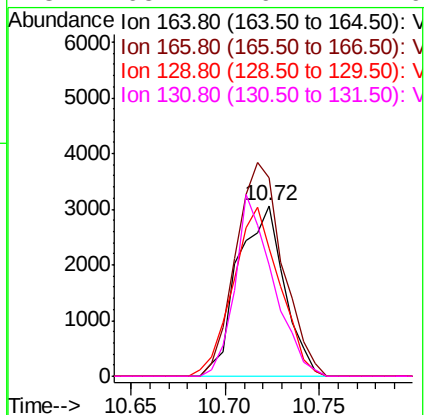
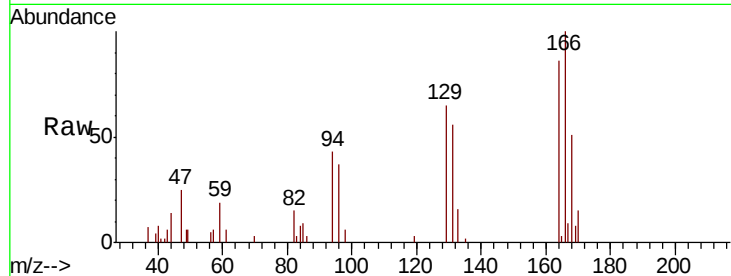




#64
Tetrachloroethene
Concen: 1.610 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

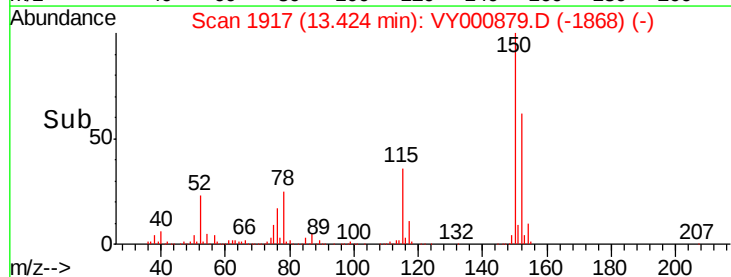
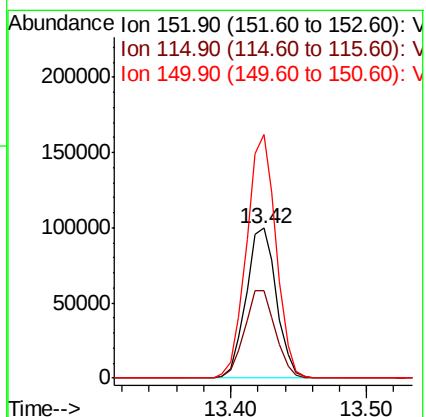
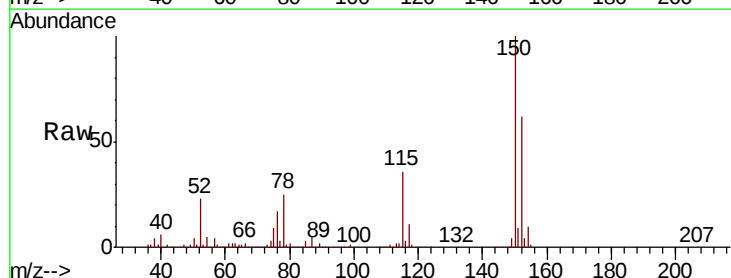
Instrument :
MSVOA_Y
ClientSampleId :
P001-WC003

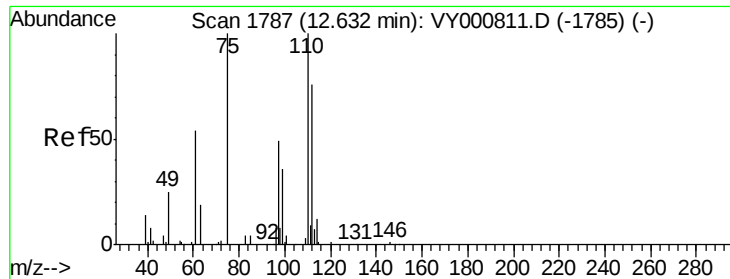
Tot Ion:164 Resp: 5216
Ion Ratio Lower Upper
164 100
166 116.2 101.8 152.8
129 75.0 79.3 118.9#
131 65.4 76.4 114.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY000879.D
Acq: 05 Dec 2019 13:48

Tgt Ion:152 Resp: 155476
Ion Ratio Lower Upper
152 100
115 59.1 29.3 87.8
150 158.3 0.0 351.2





#76

1,2,3-Trichloropropane

Concen: 48.387 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000879.D

Acq: 05 Dec 2019 13:48

Instrument :

MSVOA_Y

ClientSampleId :

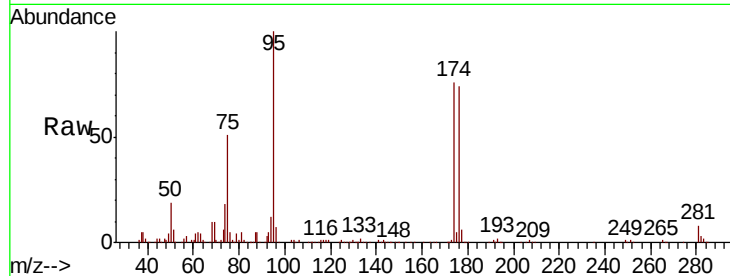
P001-WC003

Tot Ion: 75 Resp: 85235

Ion Ratio Lower Upper

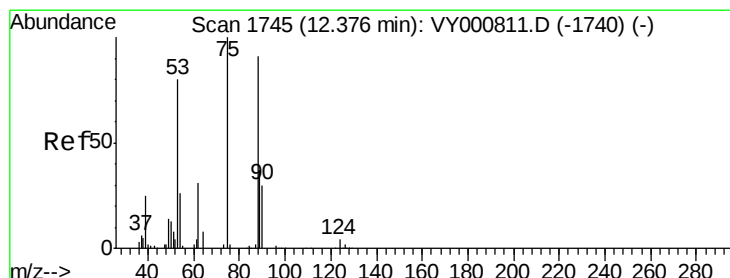
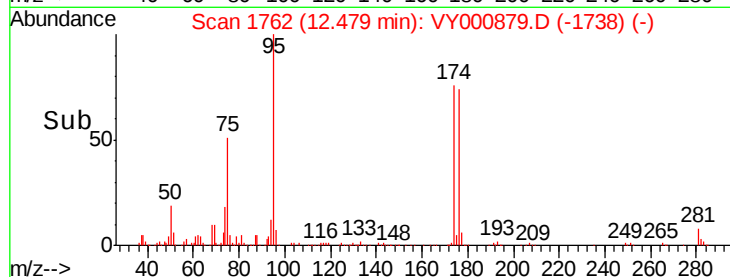
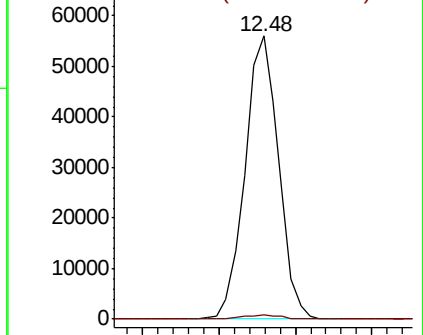
75 100

77 1.6 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: 95.046 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000879.D

Acq: 05 Dec 2019 13:48

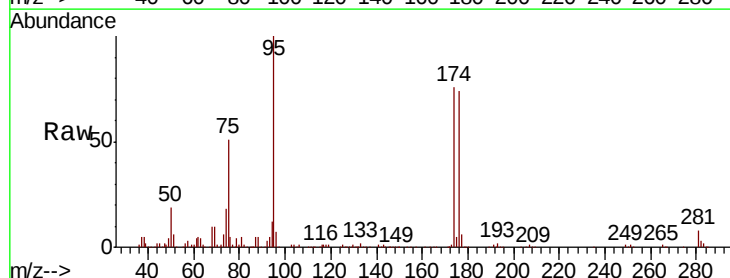
Tgt Ion: 75 Resp: 85235

Ion Ratio Lower Upper

75 100

53 0.0 64.6 96.8#

89 0.2 33.6 50.4#



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

