

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112119\
 Data File : VY000778.D
 Acq On : 21 Nov 2019 19:02
 Operator : SY/MD
 Sample : K5959-12
 Misc : 5.72G/5ML/MSVOA Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WS-112019-4-5-GRAB-B2

Quant Time: Nov 22 03:16:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:30:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	322101	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	588297	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	521128	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	225852	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	185395	55.62	ug/l	0.00
Spiked Amount						
			Recovery	=	111.24%	
35) Dibromofluoromethane	7.73	113	167624	48.53	ug/l	0.00
Spiked Amount						
			Recovery	=	97.06%	
50) Toluene-d8	10.18	98	694224	52.97	ug/l	0.00
Spiked Amount						
			Recovery	=	105.94%	
62) 4-Bromofluorobenzene	12.48	95	233916	46.89	ug/l	0.00
Spiked Amount						
			Recovery	=	93.78%	

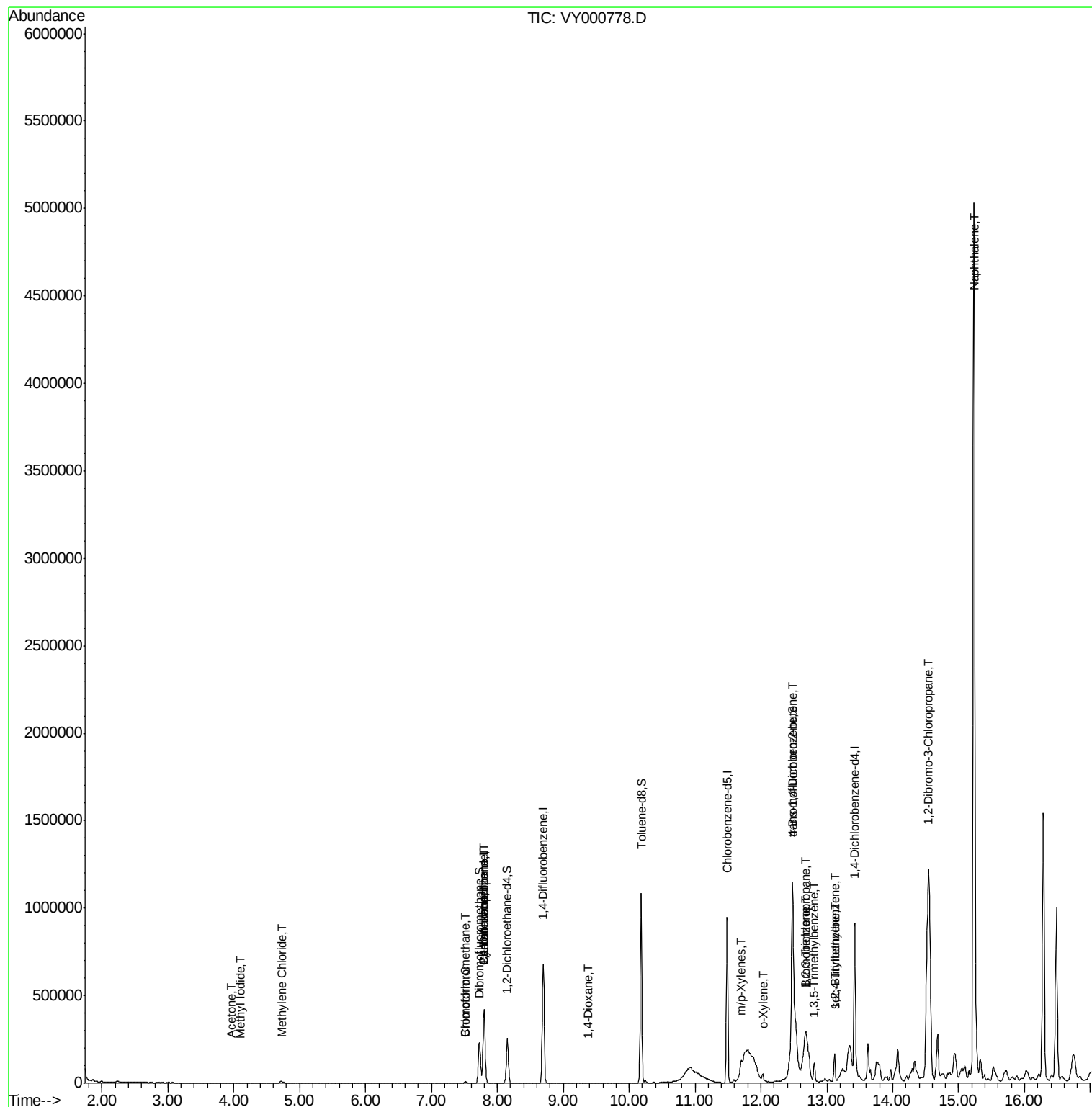
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.10	142	174	3.237	ug/l #	41
16) Acetone	3.96	43	2452	2.669	ug/l #	84
20) Methylene Chloride	4.72	84	7626	1.937	ug/l #	90
28) Bromochloromethane	7.52	49	414	4.228	ug/l #	14
30) Chloroform	7.52	83	6690	1.074	ug/l	98
31) Cyclohexane	7.80	56	6824	1.058	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	26386	4.744	ug/l #	49
38) Carbon Tetrachloride	7.80	117	32047	5.989	ug/l #	15
49) 1,4-Dioxane	9.38	88	53	1.784	ug/l #	23
68) m/p-Xylenes	11.69	106	13573	1.803	ug/l	81
69) o-Xylene	12.03	106	9561	1.352	ug/l	93
76) 1,2,3-Trichloropropane	12.68	75	6604	2.568	ug/l #	100
77) Bromobenzene	12.68	156	346090	91.430	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.81	105	51315	3.691	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.48	75	139645	121.752	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.12	105	87090	6.292	ug/l	96
85) sec-Butylbenzene	13.12	105	87090	5.150	ug/l #	56
92) 1,2-Dibromo-3-Chloropropan	14.54	75	96475	164.935	ug/l #	18
95) Naphthalene	15.23	128	3851133	378.745	ug/l	100

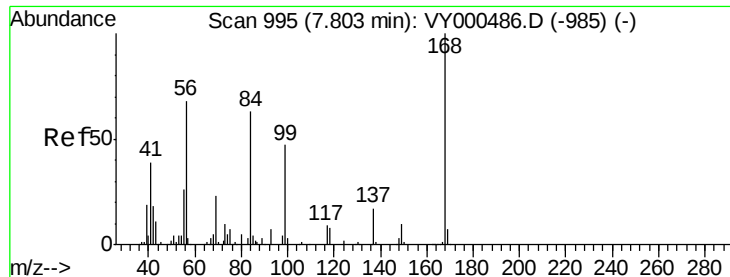
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000778.D

Acq: 21 Nov 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

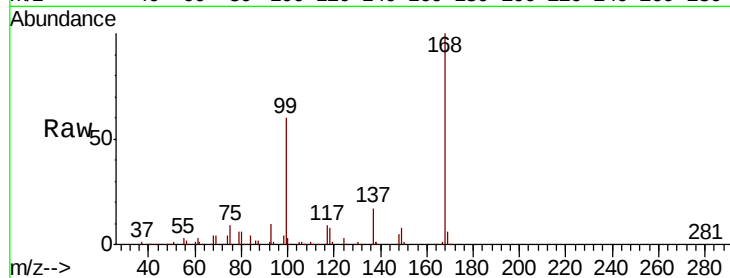
WS-112019-4-5-GRAB-B2

Tot Ion:168 Resp: 322101

Ion Ratio Lower Upper

168 100

99 59.7 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VY0

7.80

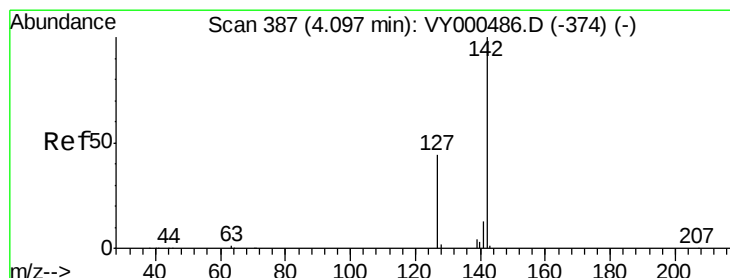
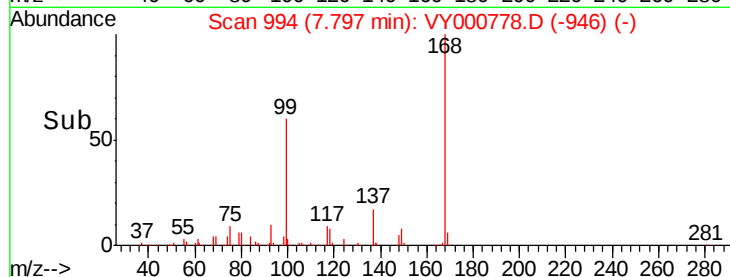
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 3.237 ug/l

RT: 4.10 min Scan# 387

Delta R.T. 0.00 min

Lab File: VY000778.D

Acq: 21 Nov 2019 19:02

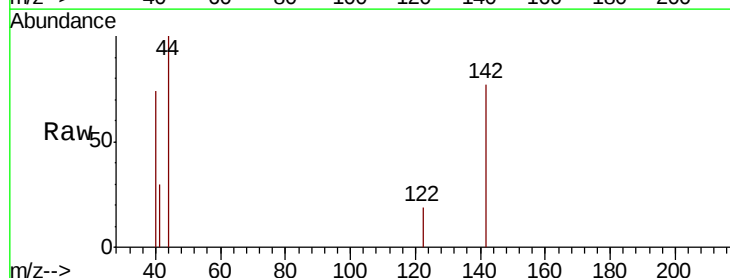
Tgt Ion:142 Resp: 174

Ion Ratio Lower Upper

142 100

127 0.0 33.7 50.5#

141 0.0 10.9 16.3#



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

300

250

200

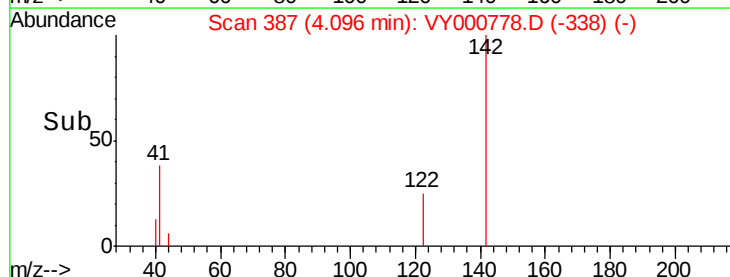
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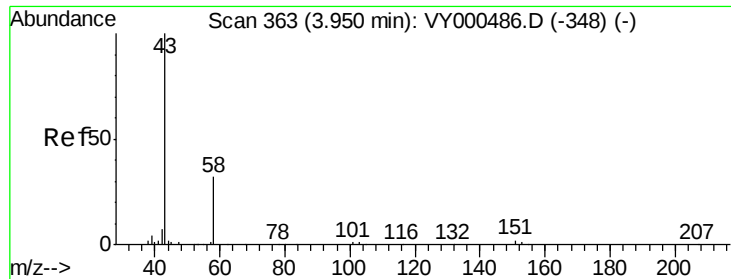
100

50

0

Time-->





#16

Acetone

Concen: 2.669 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000778.D

Acq: 21 Nov 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

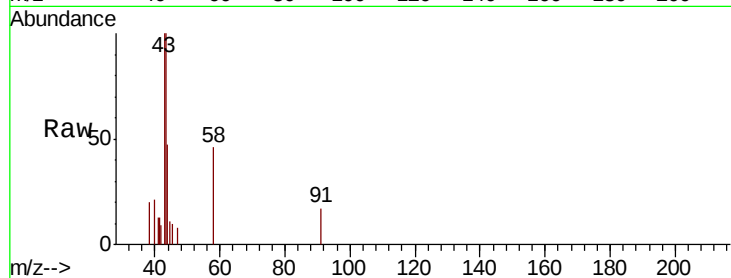
WS-112019-4-5-GRAB-B2

Tot Ion: 43 Resp: 2452

Ion Ratio Lower Upper

43 100

58 23.0 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.96

1500

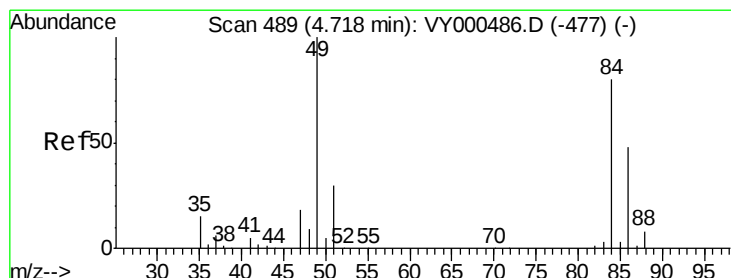
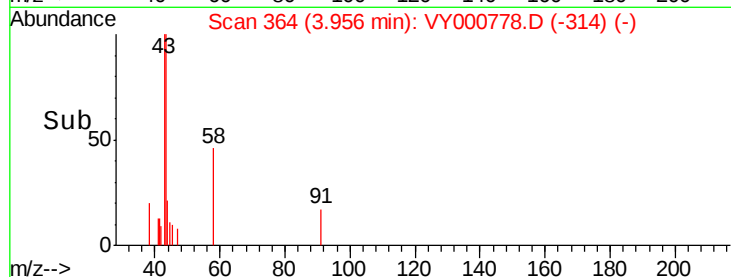
1000

500

0

Time-->

3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 1.937 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.01 min

Lab File: VY000778.D

Acq: 21 Nov 2019 19:02

Tgt Ion: 84 Resp: 7626

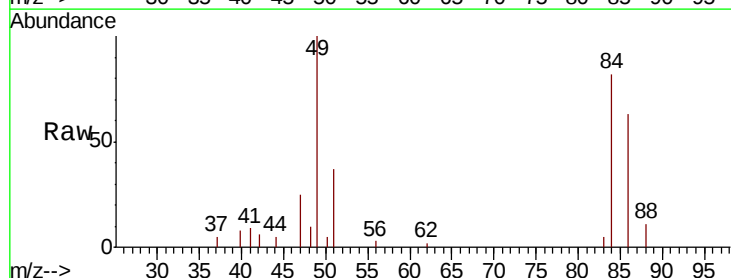
Ion Ratio Lower Upper

84 100

49 121.4 100.2 150.4

51 45.1 29.6 44.4#

86 76.6 48.3 72.5#



Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0

4000

3000

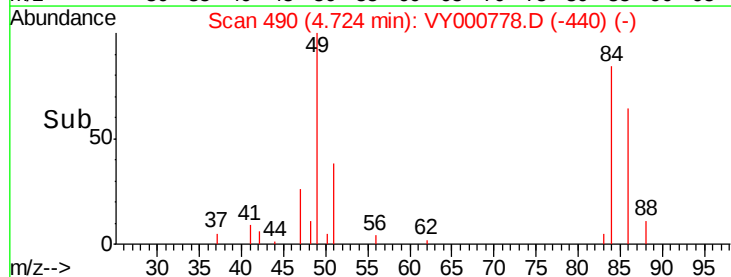
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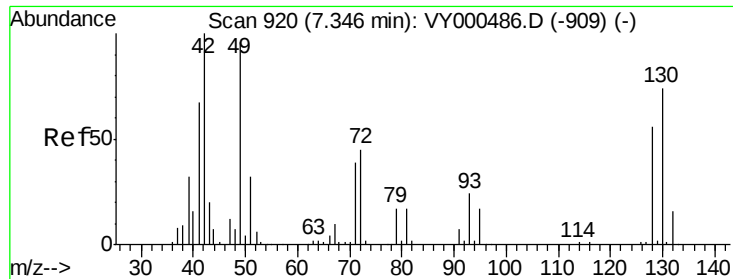
1000

0

Time-->

4.60 4.65 4.70 4.75 4.80





#28

Bromochloromethane

Concen: 4.228 ug/l

RT: 7.52 min Scan# 948

Delta R.T. 0.17 min

Lab File: VY000778.D

Acq: 21 Nov 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

WS-112019-4-5-GRAB-B2

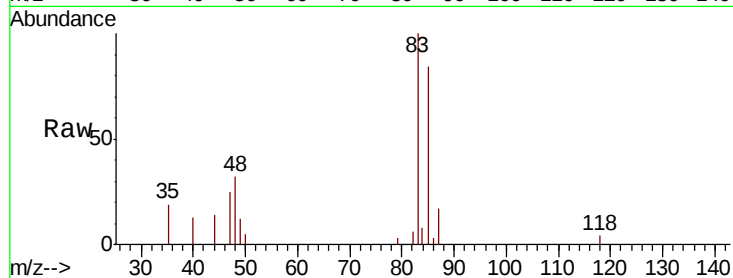
Tot Ion: 49 Resp: 414

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

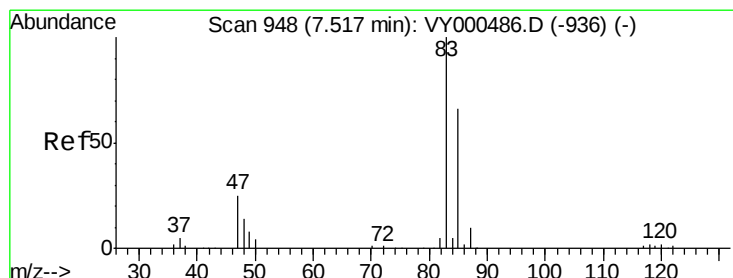
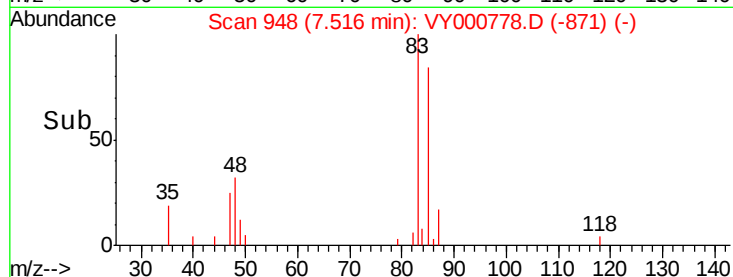
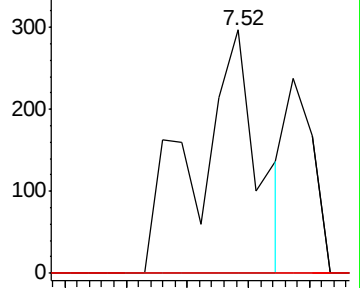
130 0.0 59.4 89.0#



Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 1.074 ug/l

RT: 7.52 min Scan# 949

Delta R.T. 0.01 min

Lab File: VY000778.D

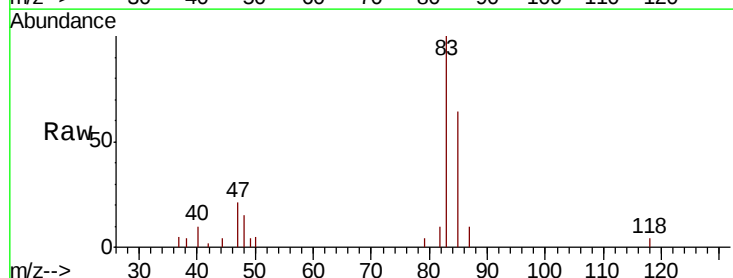
Acq: 21 Nov 2019 19:02

Tgt Ion: 83 Resp: 6690

Ion Ratio Lower Upper

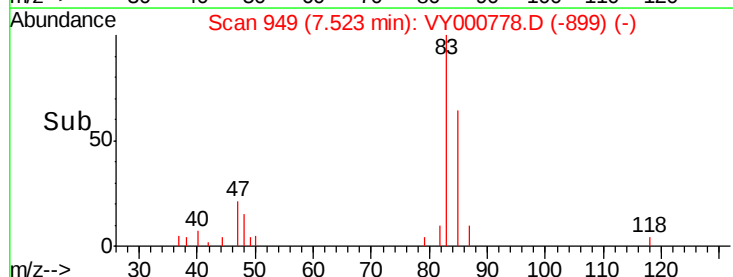
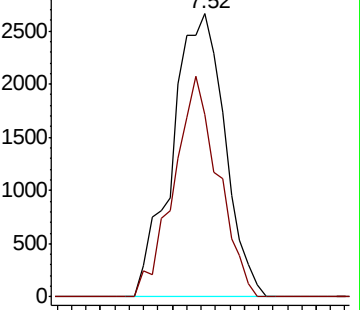
83 100

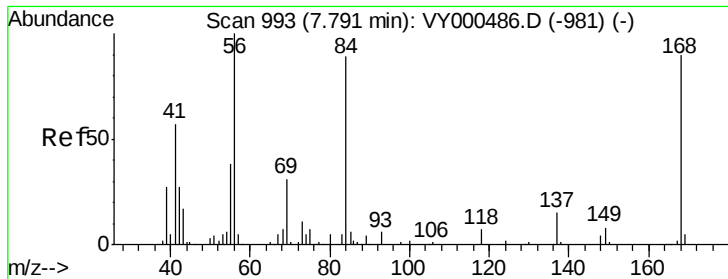
85 64.2 53.0 79.4



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

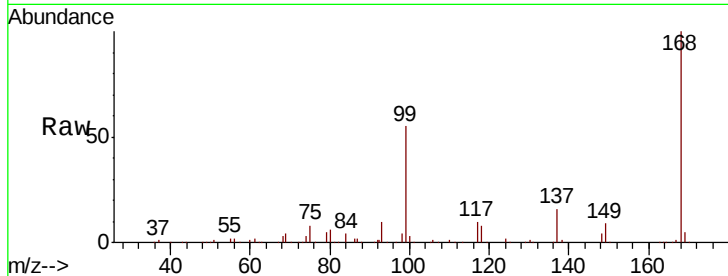




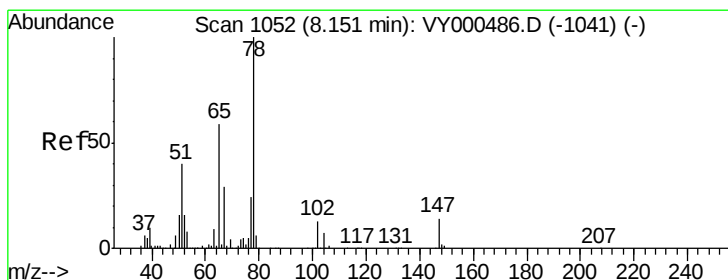
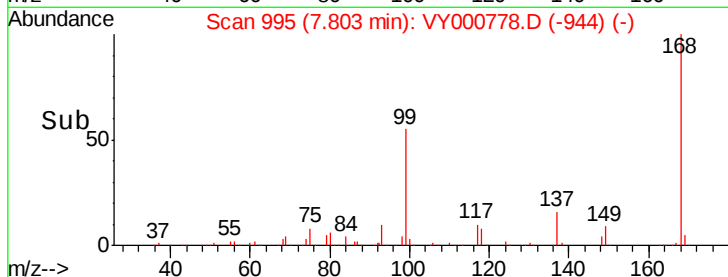
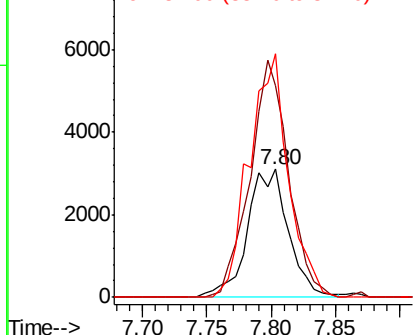
#31
Cyclohexane
Concen: 1.058 ug/l
RT: 7.80 min Scan# 995
Delta R.T. 0.01 min
Lab File: VY000778.D
Acq: 21 Nov 2019 19:02

Instrument :
MSVOA_Y
ClientSampleId :
WS-112019-4-5-GRAB-B2

Tot Ion: 56 Resp: 6824
Ion Ratio Lower Upper
56 100
69 165.4 25.0 37.6#
84 190.1 71.4 107.2#

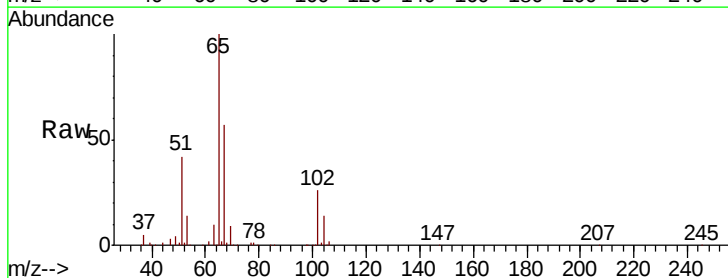


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

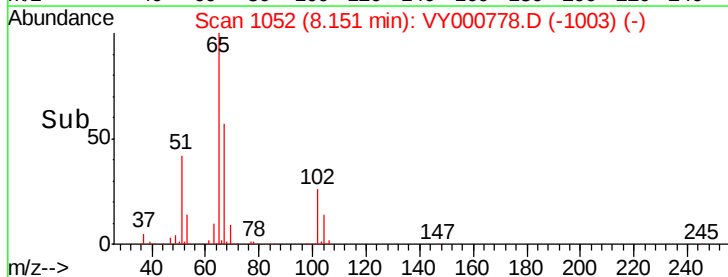
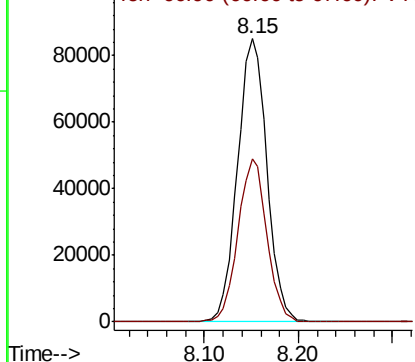


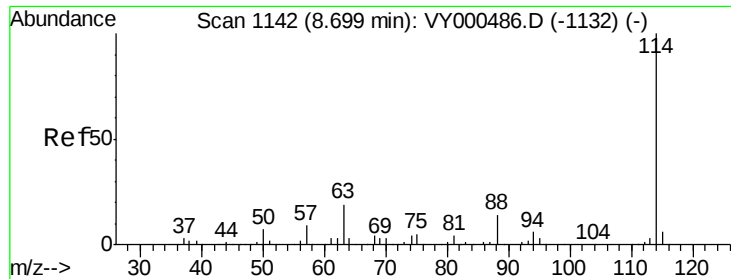
#33
1,2-Dichloroethane-d4
Concen: 55.619 ug/l
RT: 8.15 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VY000778.D
Acq: 21 Nov 2019 19:02

Tgt Ion: 65 Resp: 185395
Ion Ratio Lower Upper
65 100
67 56.5 0.0 107.2



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

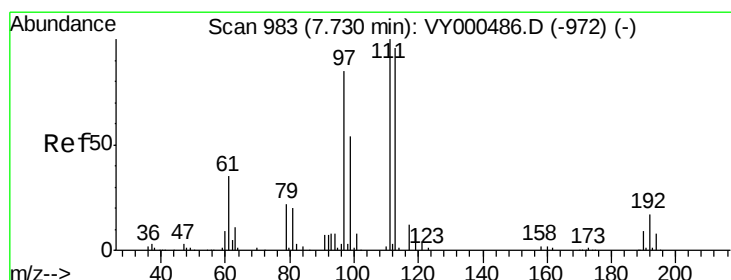
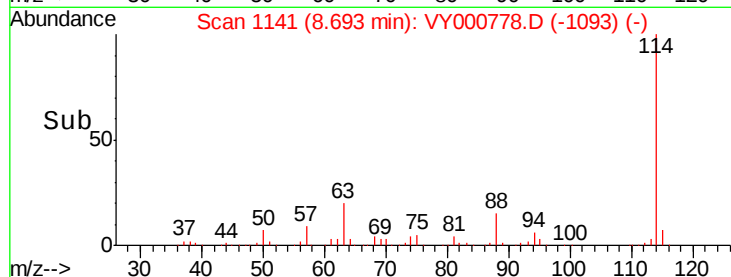
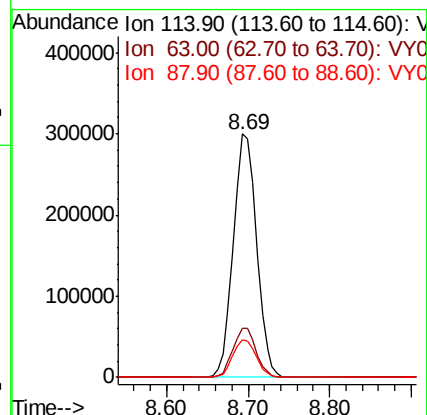
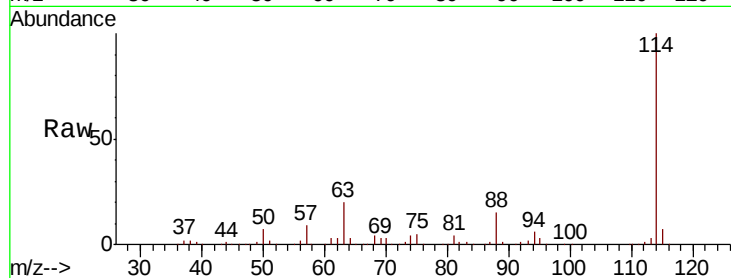




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. -0.01 min
 Lab File: VY000778.D
 Acq: 21 Nov 2019 19:02

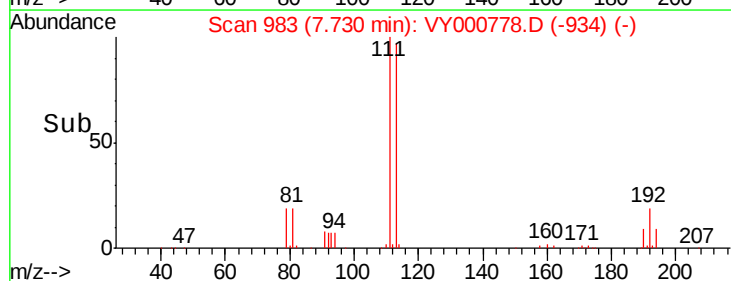
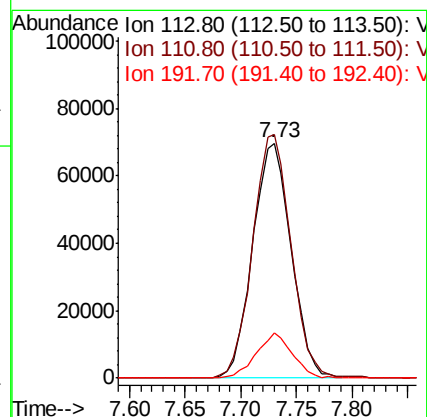
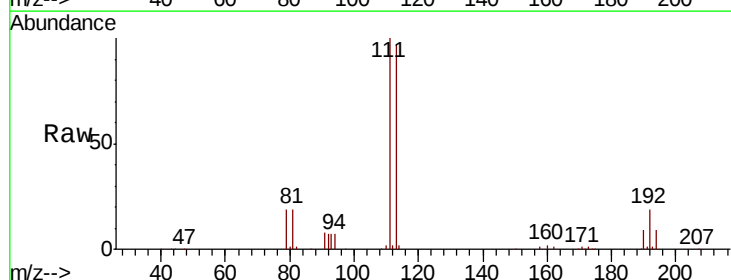
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 WS-112019-4-5-GRAB-B2

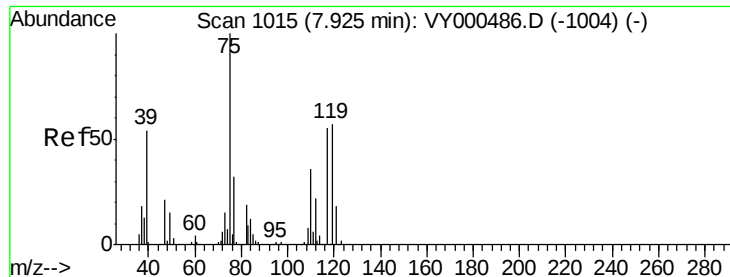
Tot Ion:114	Resp:	588297
Ion Ratio	Lower	Upper
114 100		
63 19.9	0.0	38.0
88 15.3	0.0	28.6



#35
 Dibromofluoromethane
 Concen: 48.535 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.00 min
 Lab File: VY000778.D
 Acq: 21 Nov 2019 19:02

Tgt Ion:113	Resp:	167624
Ion Ratio	Lower	Upper
113 100		
111 103.6	81.7	122.5
192 18.0	15.0	22.4

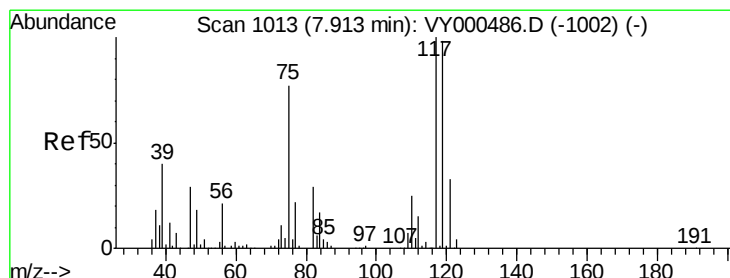
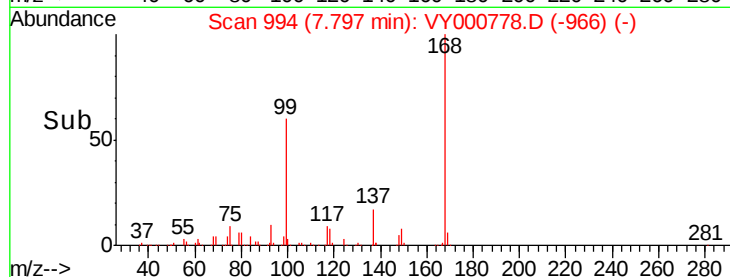
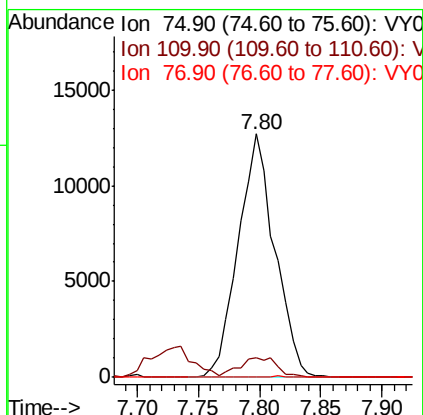
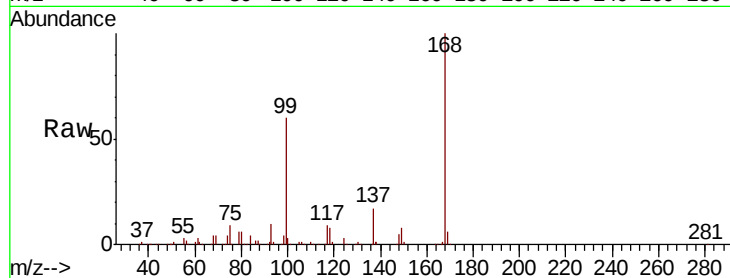




#36
 1,1-Dichloropropene
 Concen: 4.744 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY000778.D
 Acq: 21 Nov 2019 19:02

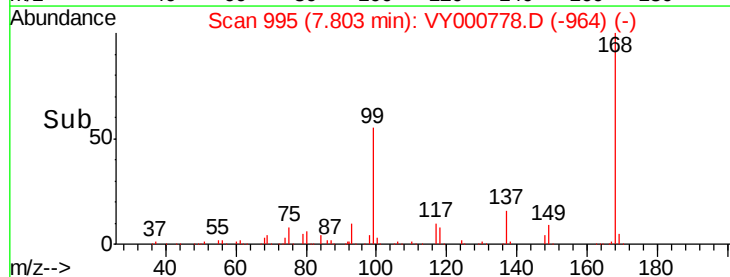
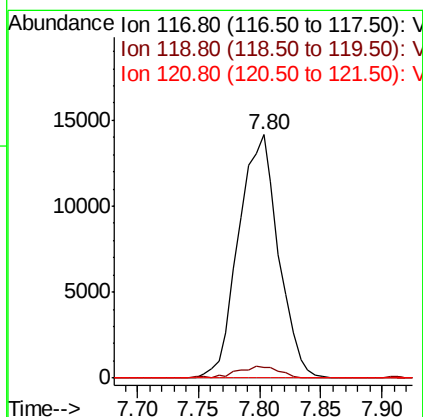
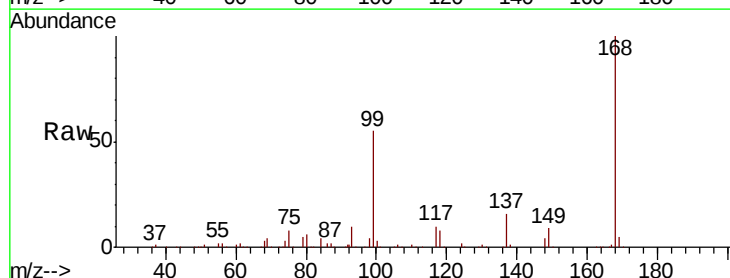
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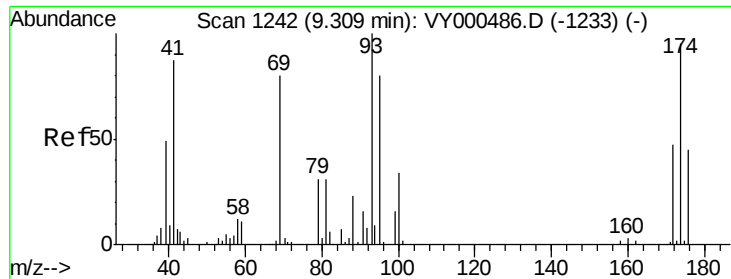
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.1#
77	0.2	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.989 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.11 min
 Lab File: VY000778.D
 Acq: 21 Nov 2019 19:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	78.0	117.0#
121	0.0	26.6	40.0#

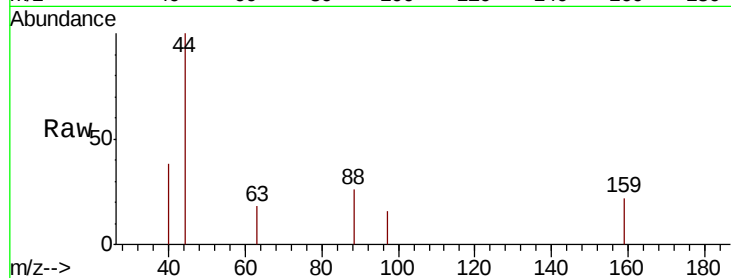




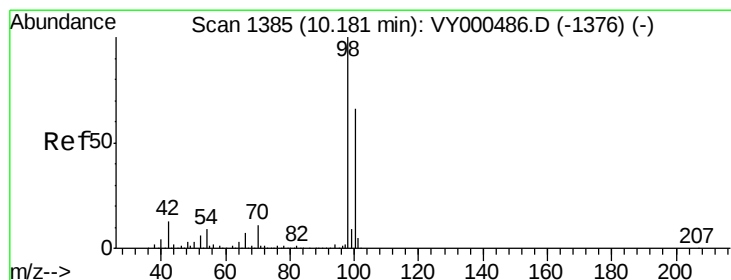
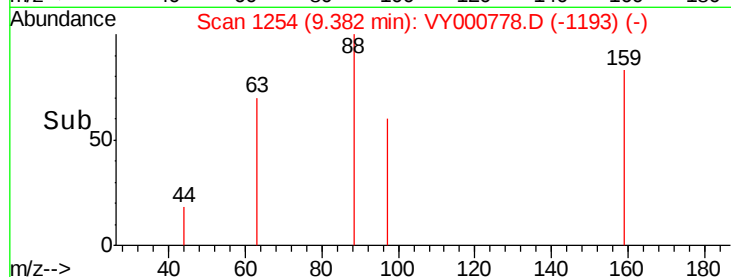
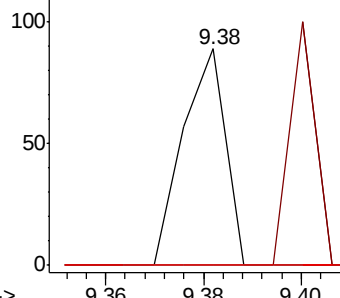
#49
 1,4-Dioxane
 Concen: 1.784 ug/l
 RT: 9.38 min Scan# 1254
 Delta R.T. 0.07 min
 Lab File: VY000778.D
 Acq: 21 Nov 2019 19:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 WS-112019-4-5-GRAB-B2

Tot Ion: 88 Resp: 53
 Ion Ratio Lower Upper
 88 100
 43 69.8 25.1 37.7#
 58 0.0 50.6 75.8#

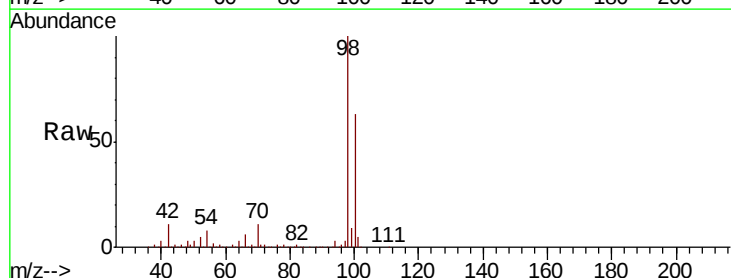


Abundance Ion 88.00 (87.70 to 88.70): VY0
 Ion 43.00 (42.70 to 43.70): VY0
 Ion 58.00 (57.70 to 58.70): VY0

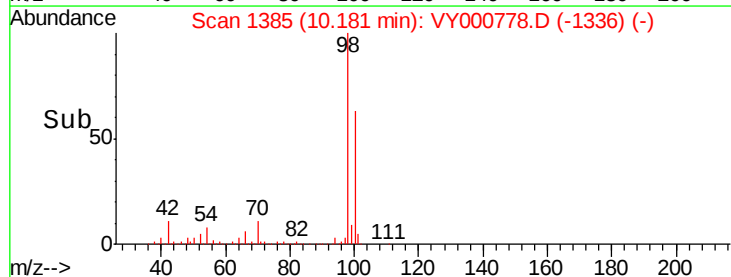
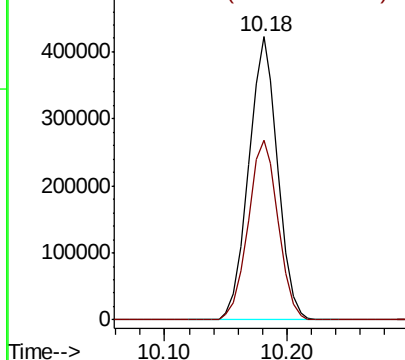


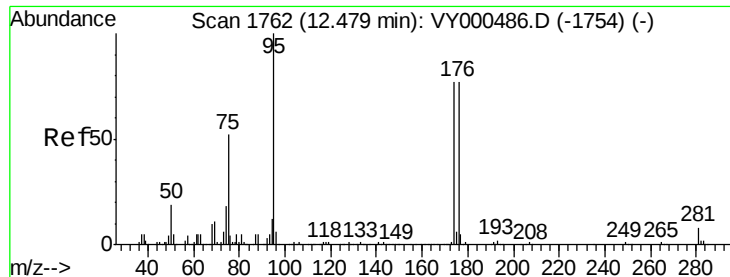
#50
 Toluene-d8
 Concen: 52.974 ug/l
 RT: 10.18 min Scan# 1385
 Delta R.T. -0.00 min
 Lab File: VY000778.D
 Acq: 21 Nov 2019 19:02

Tgt Ion: 98 Resp: 694224
 Ion Ratio Lower Upper
 98 100
 100 65.7 52.9 79.3



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

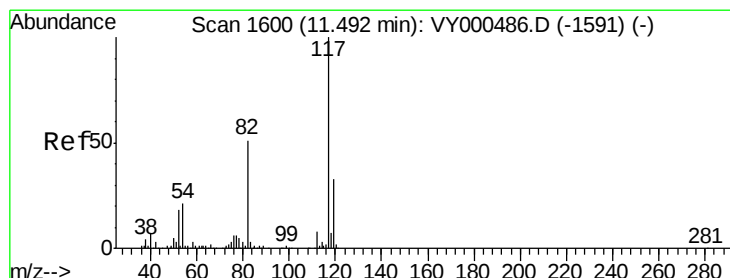
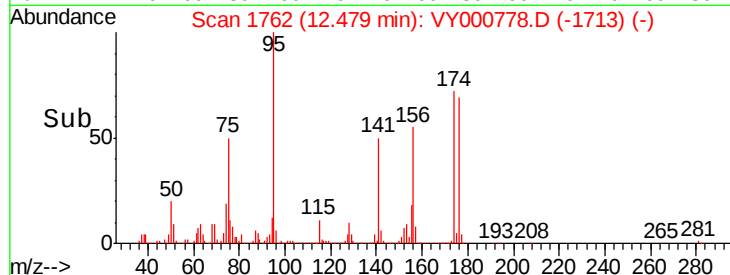
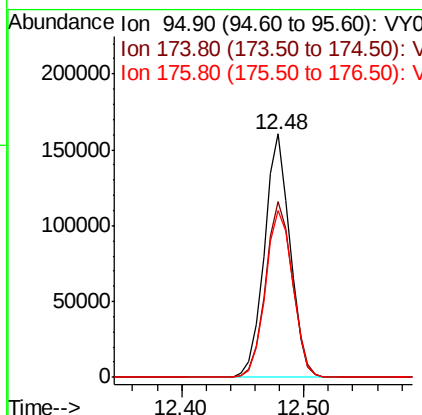
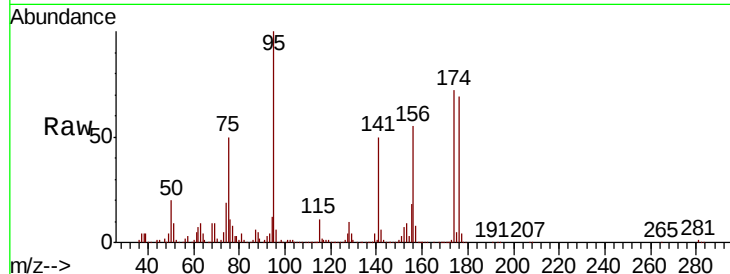




#62
4-Bromofluorobenzene
Concen: 46.887 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY000778.D
Acq: 21 Nov 2019 19:02

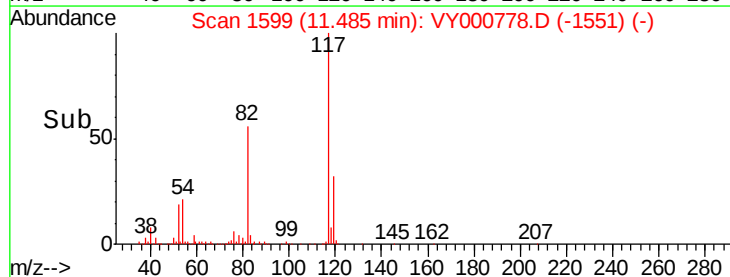
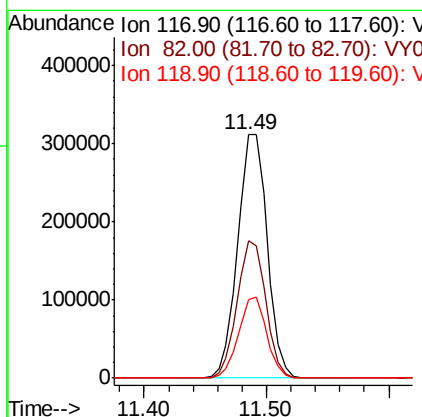
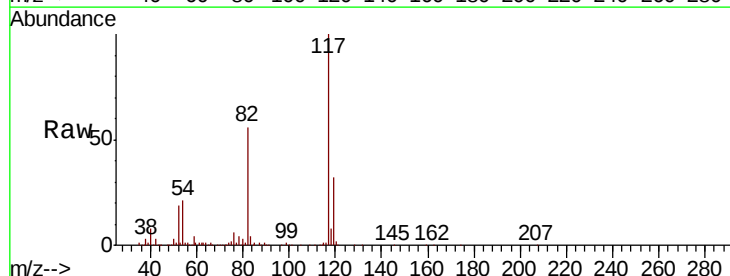
Instrument :
MSVOA_Y
ClientSampleId :
WS-112019-4-5-GRAB-B2

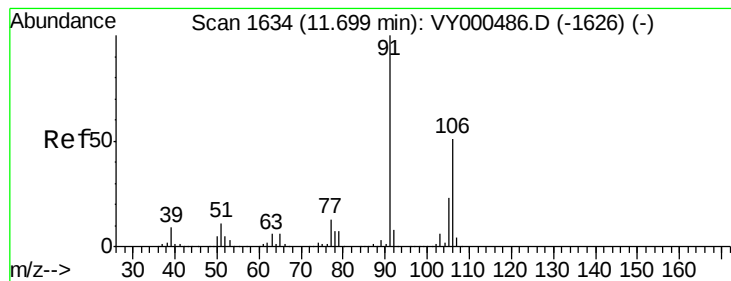
Tot Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	161.6
176	73.0	0.0	157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000778.D
Acq: 21 Nov 2019 19:02

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.4	40.8	61.2
119	32.1	26.2	39.2





#68

m/p-Xylenes

Concen: 1.803 ug/l

RT: 11.69 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VY000778.D

Acq: 21 Nov 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

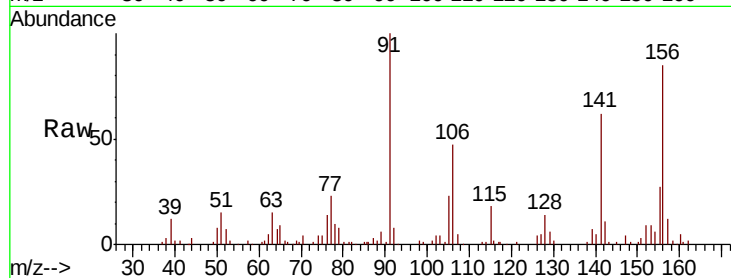
WS-112019-4-5-GRAB-B2

Tot Ion:106 Resp: 13573

Ion Ratio Lower Upper

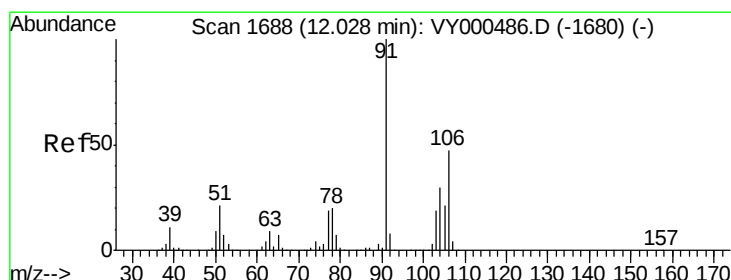
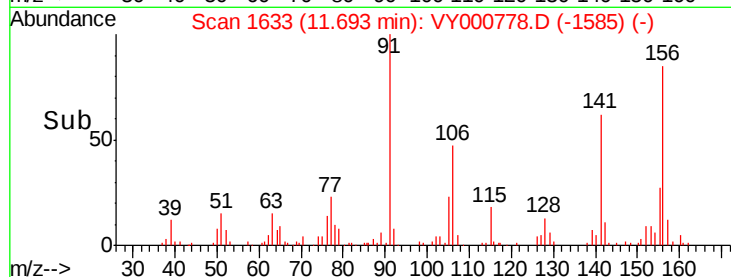
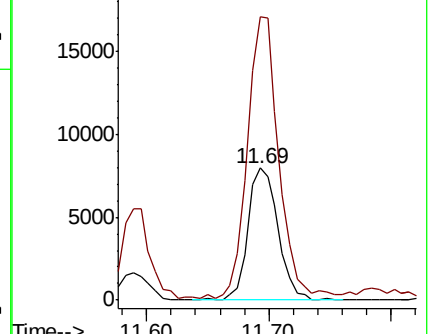
106 100

91 222.5 155.9 233.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#69

o-Xylene

Concen: 1.352 ug/l

RT: 12.03 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VY000778.D

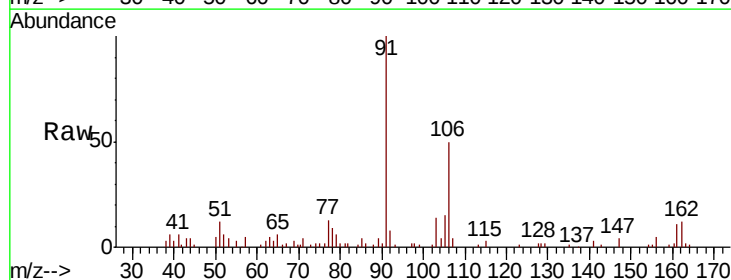
Acq: 21 Nov 2019 19:02

Tgt Ion:106 Resp: 9561

Ion Ratio Lower Upper

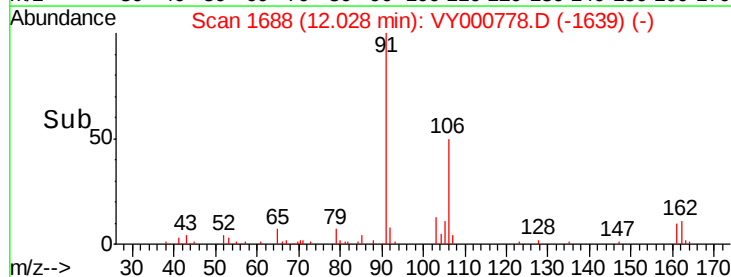
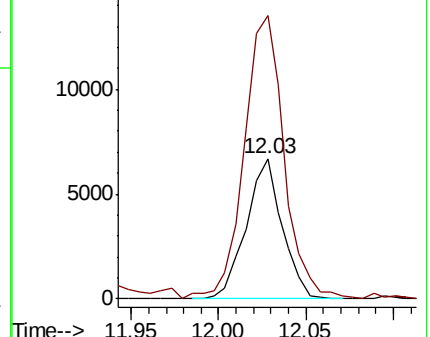
106 100

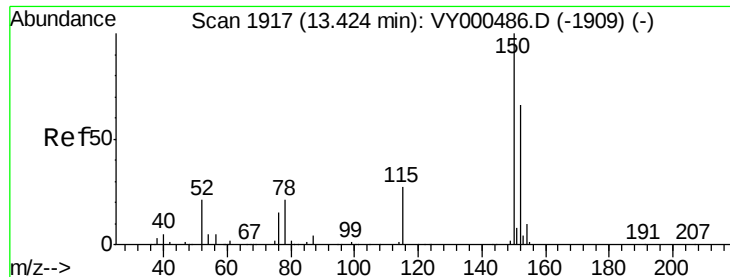
91 224.8 106.5 319.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



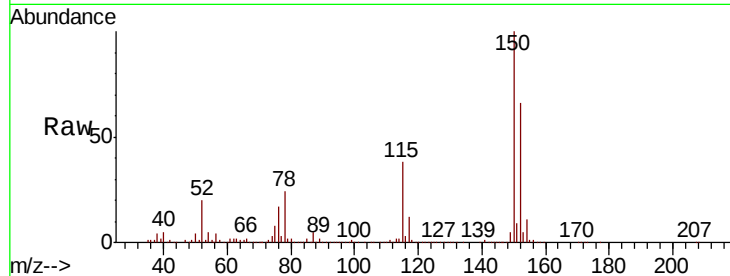


#72

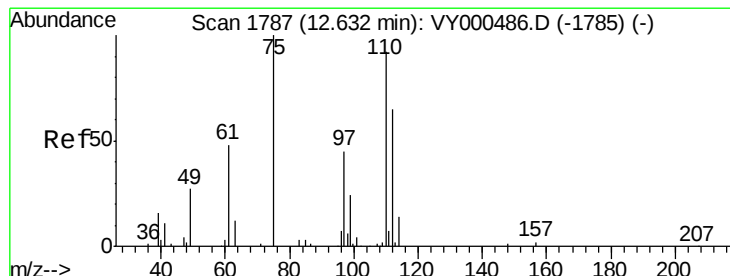
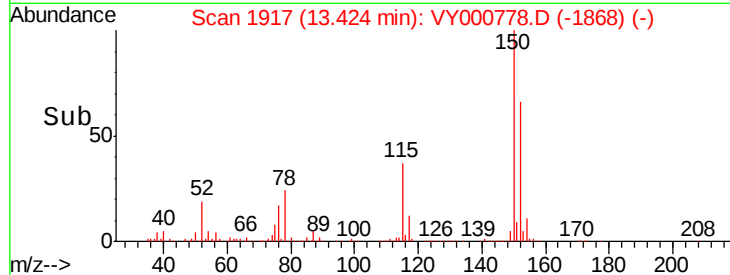
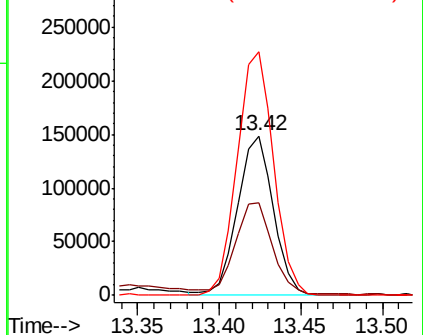
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY000778.D
Acq: 21 Nov 2019 19:02

Instrument :
MSVOA_Y
ClientSampleId :
WS-112019-4-5-GRAB-B2

Tot Ion:152 Resp: 225852
Ion Ratio Lower Upper
152 100
115 59.4 29.1 87.4
150 155.6 0.0 348.8



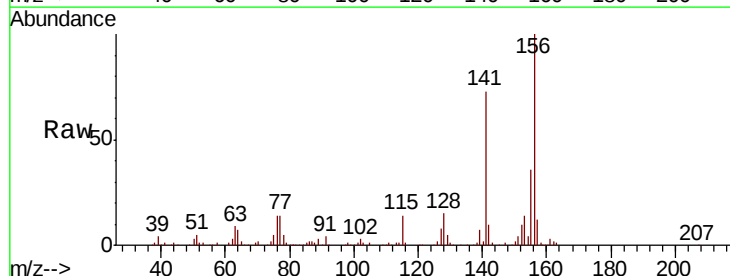
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



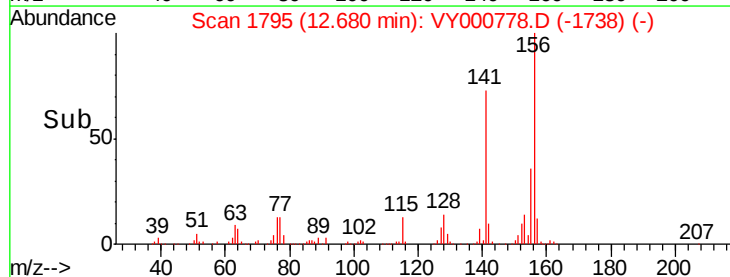
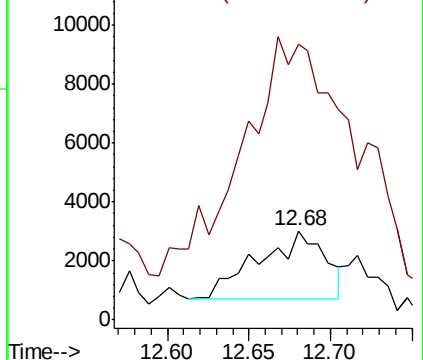
#76

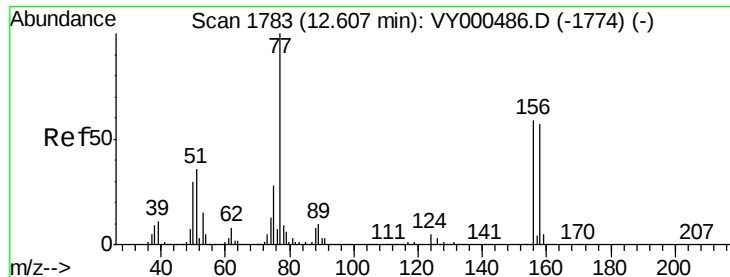
1,2,3-Trichloropropane
Concen: 2.568 ug/l
RT: 12.68 min Scan# 1795
Delta R.T. 0.05 min
Lab File: VY000778.D
Acq: 21 Nov 2019 19:02

Tgt Ion: 75 Resp: 6604
Ion Ratio Lower Upper
75 100
77 782.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 91.430 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.07 min

Lab File: VY000778.D

Acq: 21 Nov 2019 19:02

Instrument :

MSVOA_Y

ClientSampleId :

WS-112019-4-5-GRAB-B2

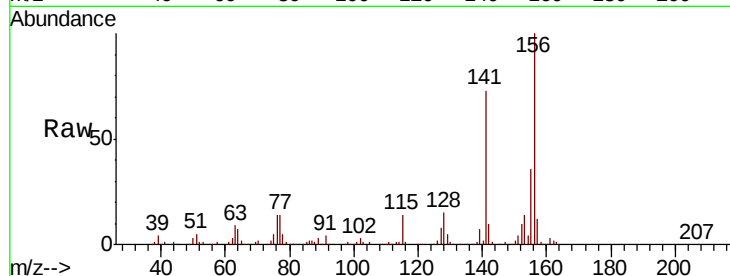
Tot Ion:156 Resp: 346090

Ion Ratio Lower Upper

156 100

77 14.9 98.2 294.4#

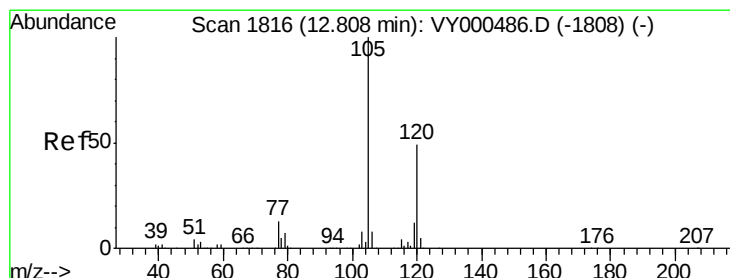
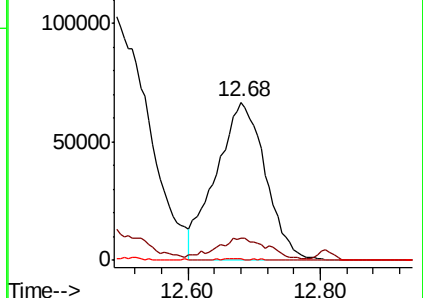
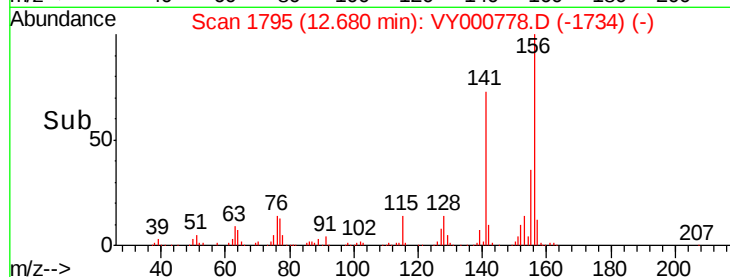
158 0.4 49.6 149.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 3.691 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.00 min

Lab File: VY000778.D

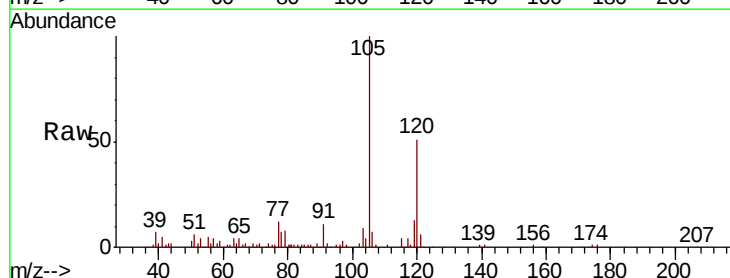
Acq: 21 Nov 2019 19:02

Tgt Ion:105 Resp: 51315

Ion Ratio Lower Upper

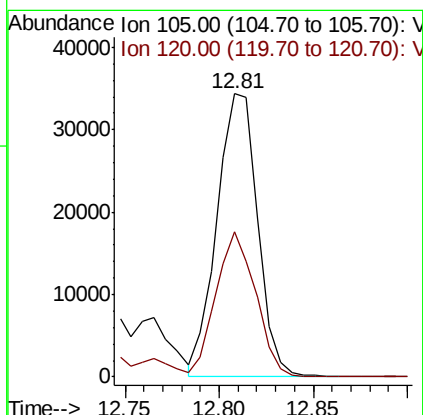
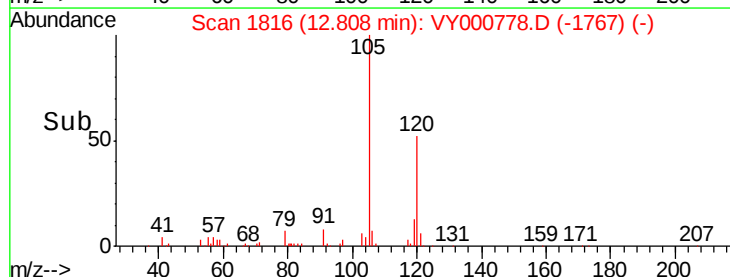
105 100

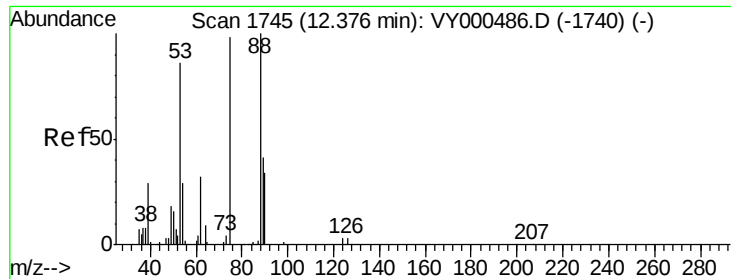
120 50.1 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

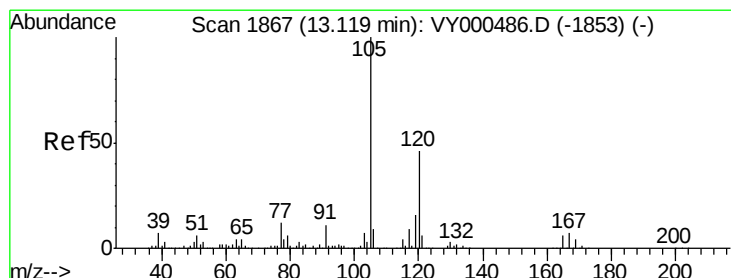
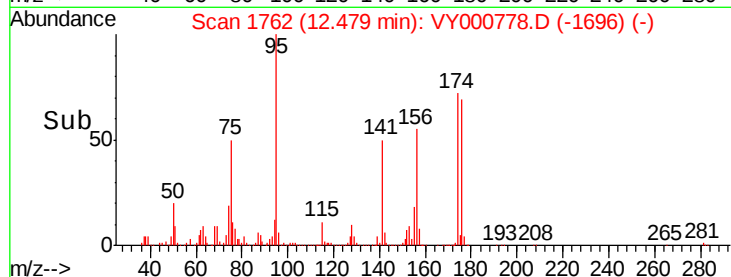
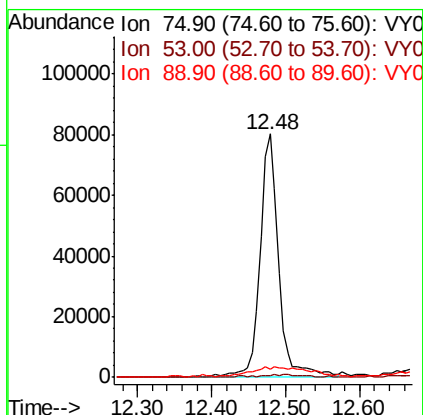
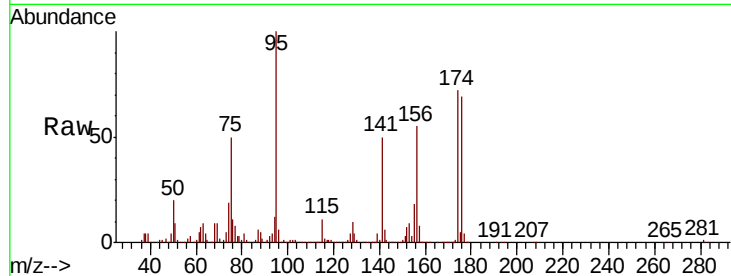




#81
trans-1,4-Dichloro-2-butene
Concen: 121.752 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.10 min
Lab File: VY000778.D
Acq: 21 Nov 2019 19:02

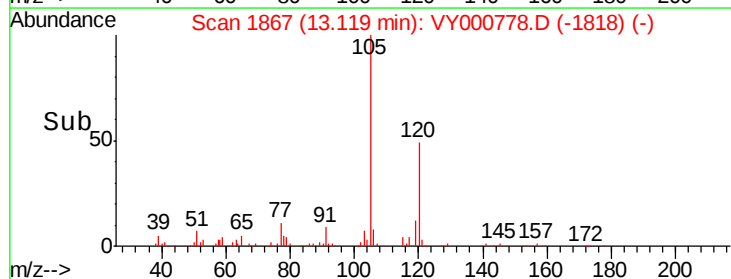
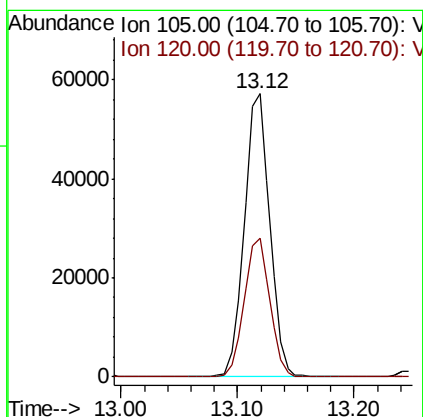
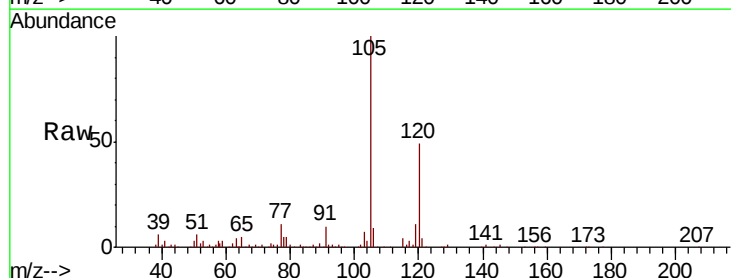
Instrument :
MSVOA_Y
ClientSampleId :
WS-112019-4-5-GRAB-B2

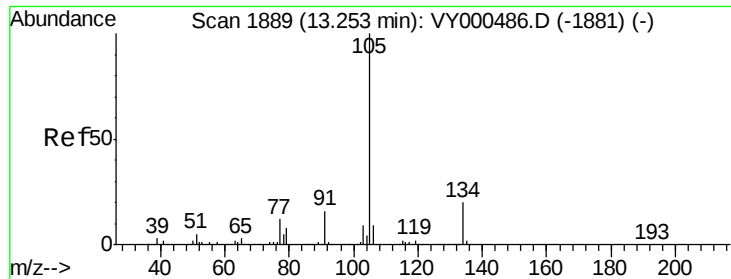
Tot Ion: 75 Resp: 139645
Ion Ratio Lower Upper
75 100
53 0.6 73.2 109.8#
89 7.2 35.9 53.9#



#84
1,2,4-Trimethylbenzene
Concen: 6.292 ug/l
RT: 13.12 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VY000778.D
Acq: 21 Nov 2019 19:02

Tgt Ion:105 Resp: 87090
Ion Ratio Lower Upper
105 100
120 49.3 23.3 69.9

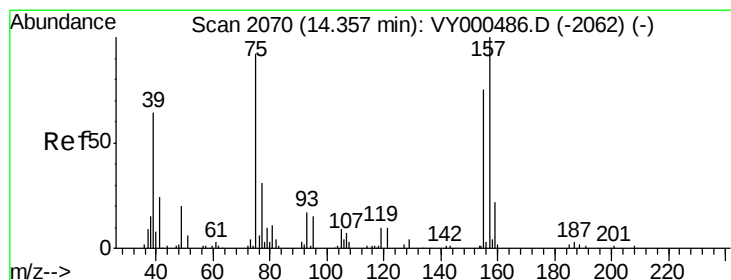
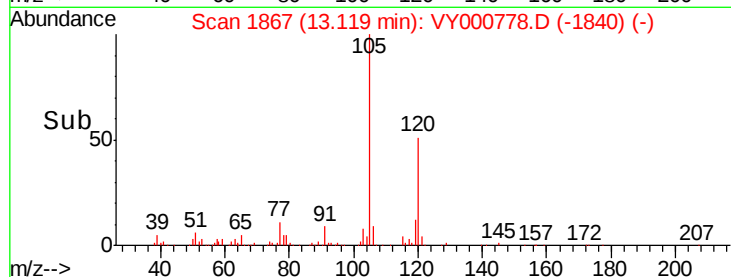
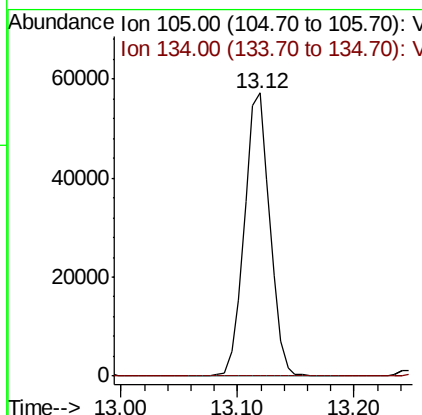
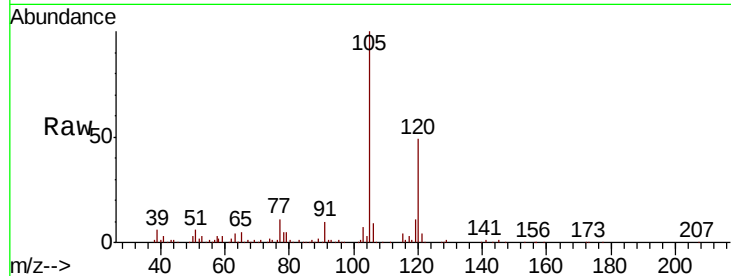




#85
 sec-Butylbenzene
 Concen: 5.150 ug/l
 RT: 13.12 min Scan# 1867
 Delta R.T. -0.13 min
 Lab File: VY000778.D
 Acq: 21 Nov 2019 19:02

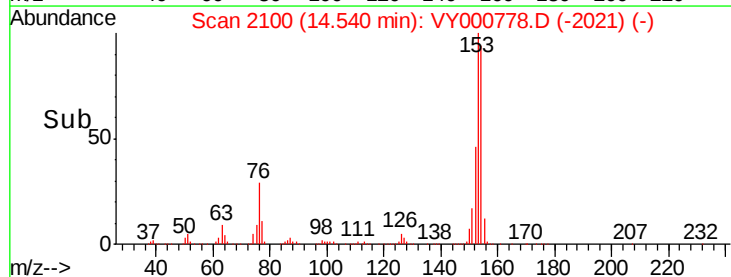
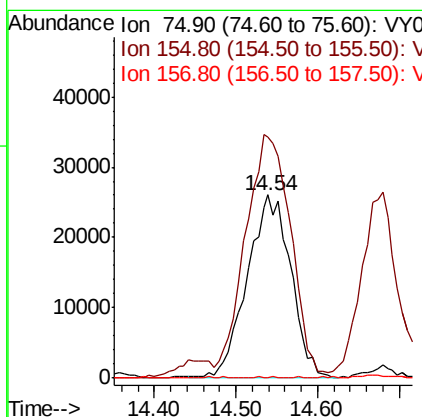
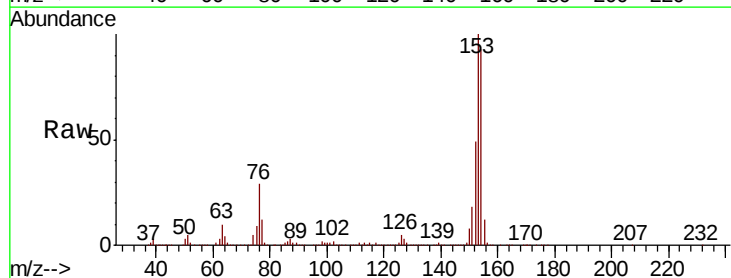
Instrument :
 MSVOA_Y
 ClientSampleId :
 WS-112019-4-5-GRAB-B2

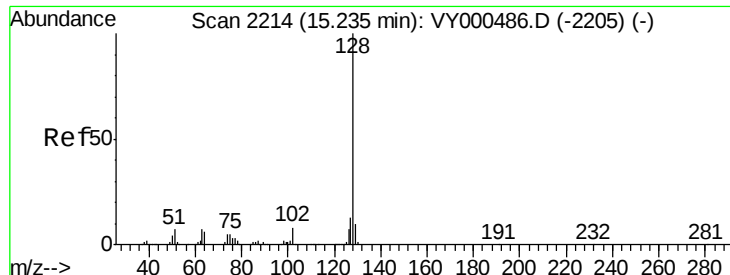
Tot Ion:105 Resp: 87090
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 164.935 ug/l
 RT: 14.54 min Scan# 2100
 Delta R.T. 0.18 min
 Lab File: VY000778.D
 Acq: 21 Nov 2019 19:02

Tgt Ion: 75 Resp: 96475
 Ion Ratio Lower Upper
 75 100
 155 133.8 42.4 127.1#
 157 0.0 55.1 165.3#





#95
Naphthalene
Concen: 378.745 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VY000778.D
Acq: 21 Nov 2019 19:02

Instrument :
MSVOA_Y
ClientSampleId :
WS-112019-4-5-GRAB-B2

Tot Ion:128 Resp: 3851133
Ion Ratio Lower Upper
128 100
127 12.4 9.8 14.6
129 10.9 8.7 13.1

