

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100720\
 Data File : VN063950.D
 Acq On : 7 Oct 2020 18:07
 Operator : JC/MD
 Sample : L4250-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-08

Manual Integrations
 APPROVED

MMDadoda
 10/8/2020 10:08:53 AM

Quant Time: Oct 08 05:54:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	254195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	449229	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	471010	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	277735	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	198028	47.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.32%	
35) Dibromofluoromethane	7.55	113	144382	46.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.64%	
50) Toluene-d8	10.06	98	580287	49.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	12.38	95	271047	61.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	122.04%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	7031	15.165	ug/l #	71
16) Acetone	3.78	43	33120	25.620	ug/l	94
19) Methyl tert-butyl Ether	4.99	73	164163	17.653	ug/l #	1
25) 2-Butanone	6.80	43	10826	5.907	ug/l	98
31) Cyclohexane	7.61	56	244862	50.224	ug/l	97
39) Methylcyclohexane	9.05	83	200589	44.197	ug/l	99
40) Benzene	8.00	78	1403026	107.932	ug/l	100
52) Toluene	10.13	92	1581028	196.634	ug/l	98
67) Ethyl Benzene	11.49	91	12664241	720.333	ug/l #	7
68) m/p-Xylenes	11.60	106	12651423	1930.796	ug/l #	45
69) o-Xylene	11.93	106	11786374	1924.510	ug/l	39
73) Isopropylbenzene	12.23	105	1720480	84.929	ug/l	99
78) n-propylbenzene	12.57	91	4117582	174.651	ug/l	97
80) 1,3,5-Trimethylbenzene	12.71	105	4298746	252.939	ug/l	91
83) tert-Butylbenzene	12.97	119	7435m	0.535	ug/l	
84) 1,2,4-Trimethylbenzene	13.02	105	12393842m	730.418	ug/l	
85) sec-Butylbenzene	13.15	105	173499m	9.502	ug/l	
86) p-Isopropyltoluene	13.27	119	117498m	7.274	ug/l	
89) n-Butylbenzene	13.59	91	194025m	13.014	ug/l	
95) Naphthalene	15.11	128	9274346	596.972	ug/l #	80

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

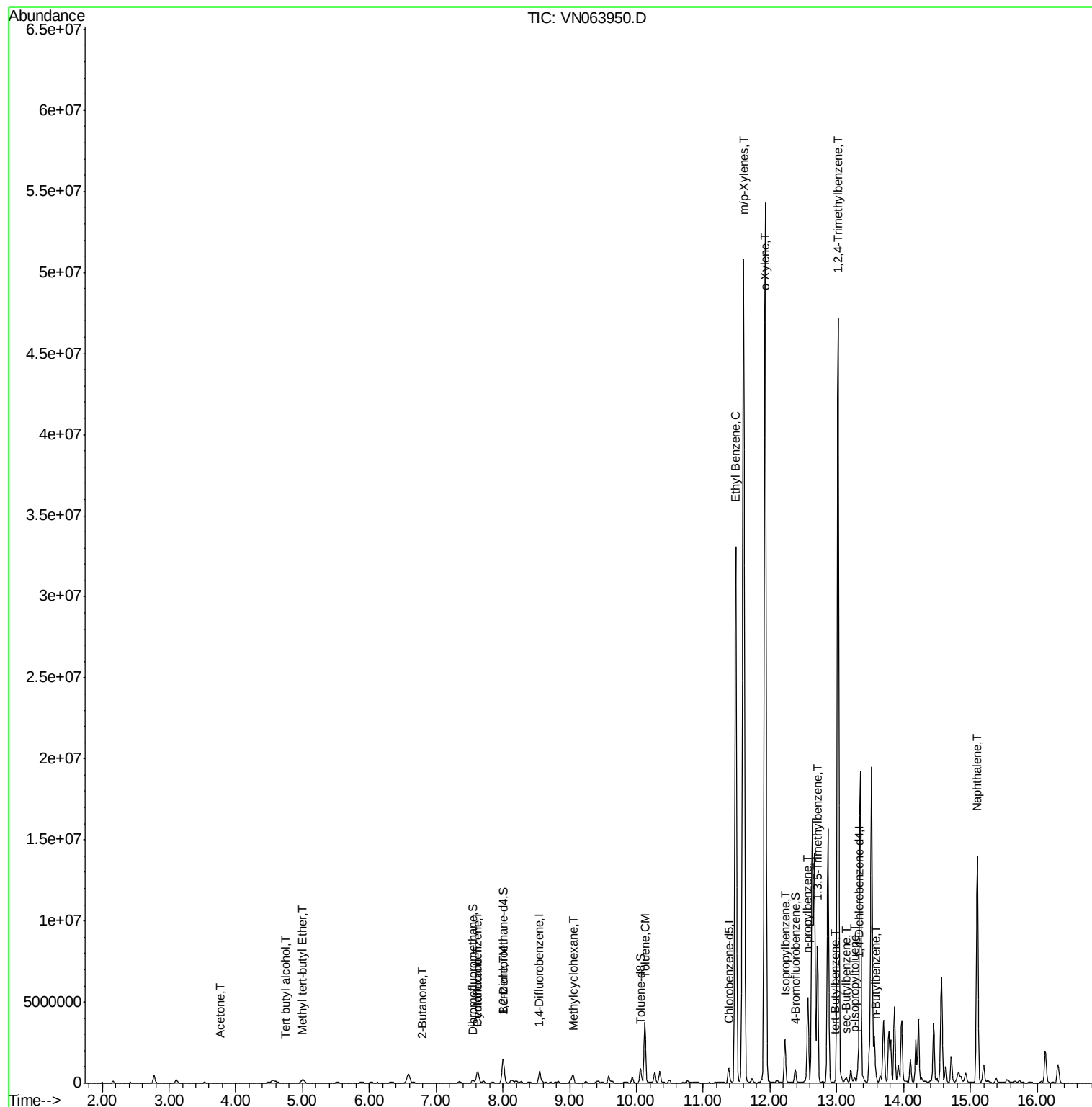
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100720\
Data File : VN063950.D
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ALS Vial : 21 Sample Multiplier: 1

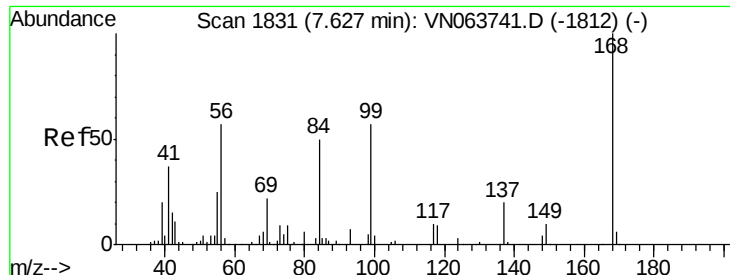
Instrument :
MSVOA_N
ClientSampleId :
MW-08

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10/8/2020 10:08:53 AM

Quant Time: Oct 08 05:54:10 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

Instrument :

MSVOA_N

ClientSampled :

MW-08

Tot Ion:168 Resp: 254195

Ion Ratio Lower Upper

168 100

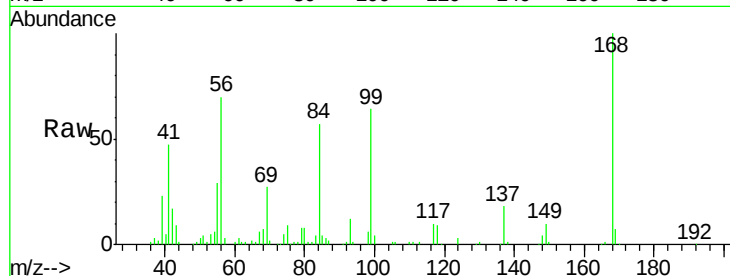
99 63.8 51.8 77.6

Manual Integrations

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10/8/2020 10:08:53 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

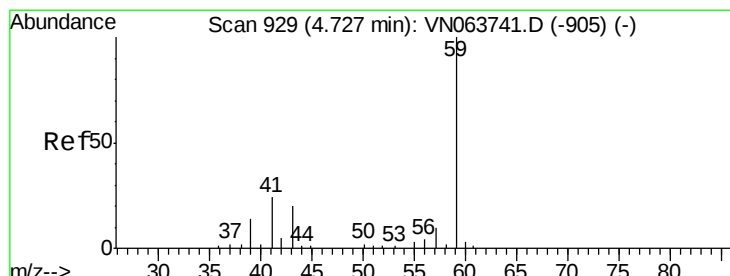
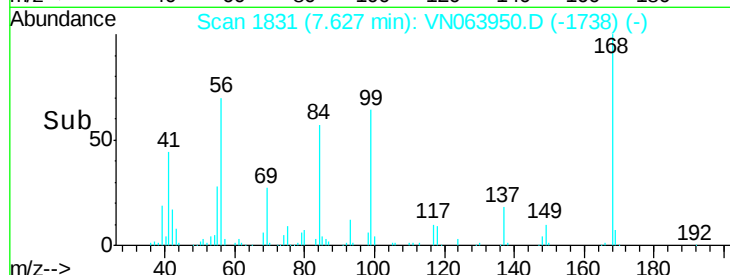
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 15.165 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN063950.D

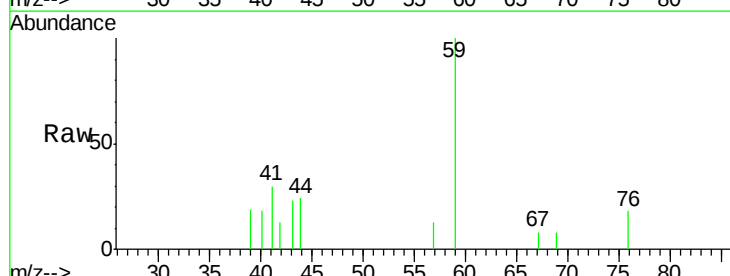
Acq: 7 Oct 2020 18:07

Tgt Ion: 59 Resp: 7031

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

2500

2000

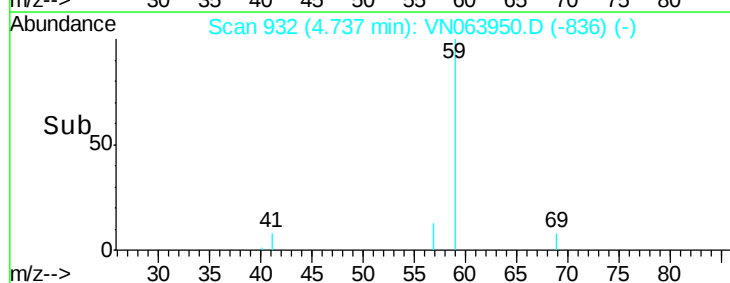
1500

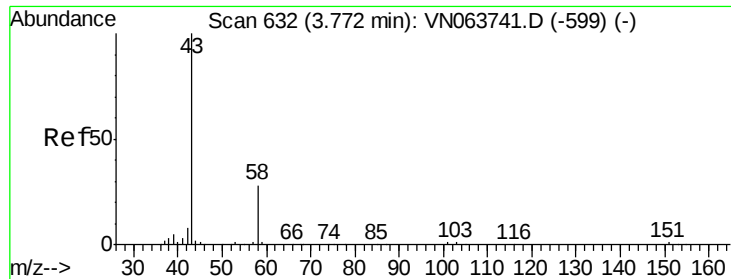
1000

500

0

Time-->





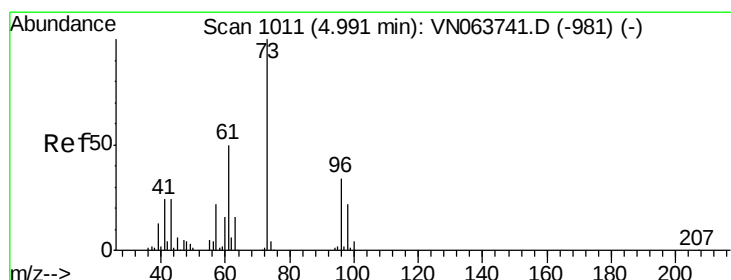
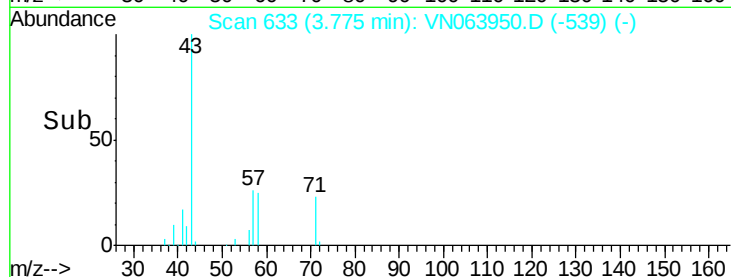
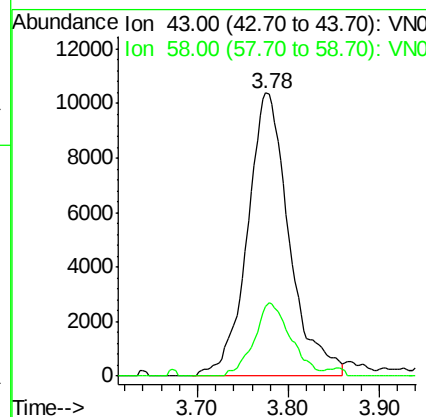
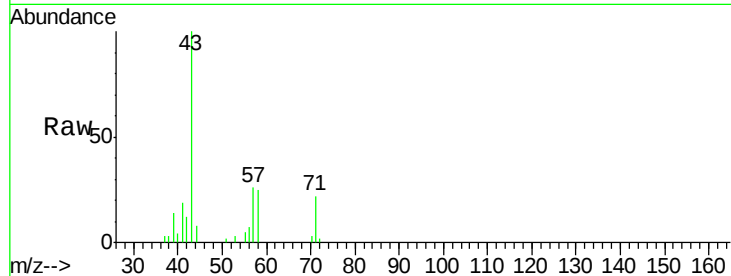
#16
Acetone
Concen: 25.620 ug/l
RT: 3.78 min Scan# 633
Delta R.T. 0.00 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Instrument :
MSVOA_N
ClientSampleId :
MW-08

Tot Ion: 43 Resp: 33120
Ion Ratio Lower Upper
43 100
58 24.6 22.3 33.5

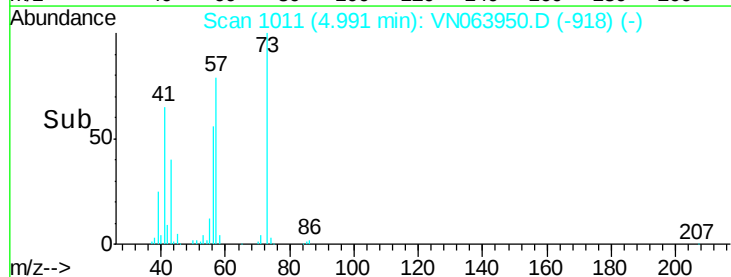
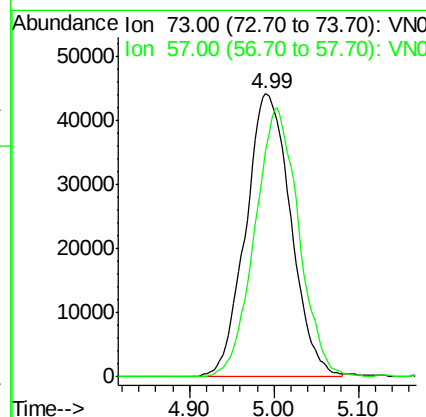
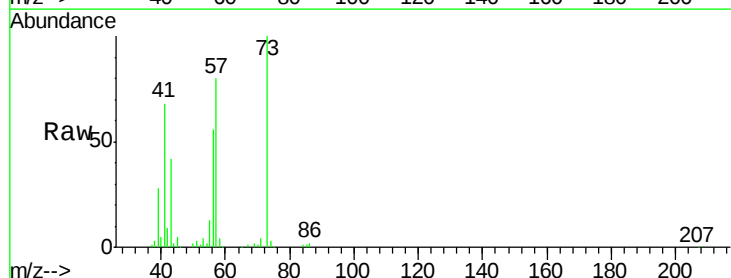
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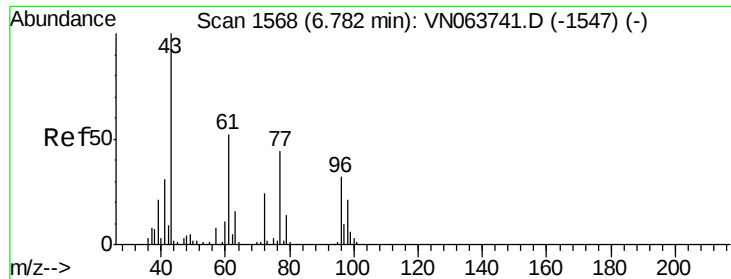
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#19
Methyl tert-butyl Ether
Concen: 17.653 ug/l
RT: 4.99 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Tgt Ion: 73 Resp: 164163
Ion Ratio Lower Upper
73 100
57 79.6 17.6 26.4#





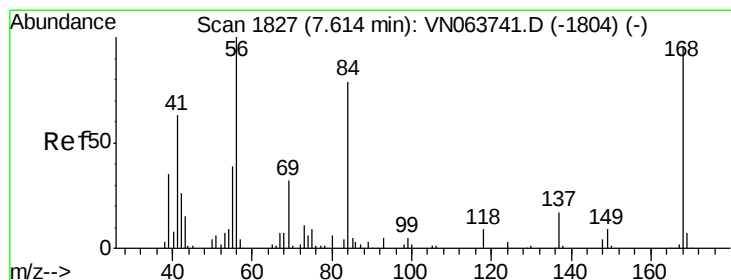
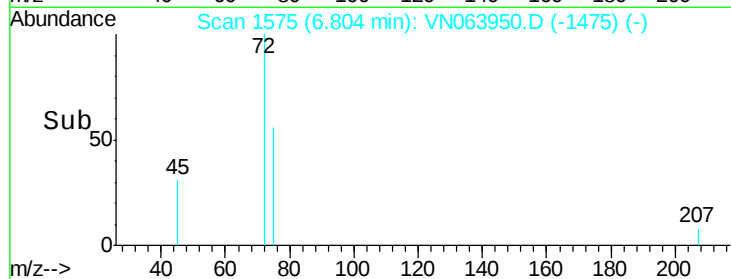
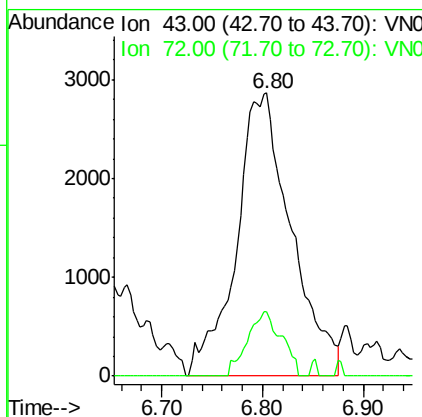
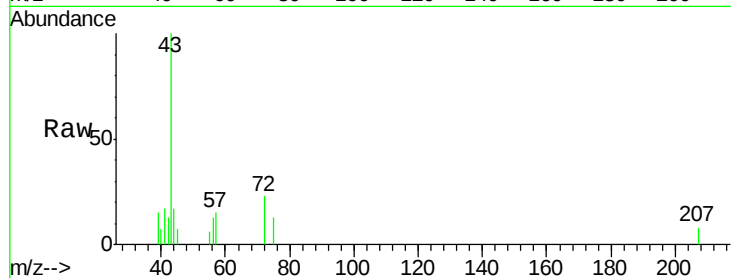
#25
2-Butanone
Concen: 5.907 ug/l
RT: 6.80 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Instrument :
MSVOA_N
ClientSampled :
MW-08

Tot Ion	43	Resp	10826
Ion Ratio	43	100	
Lower	72	22.9	19.3
Upper			28.9

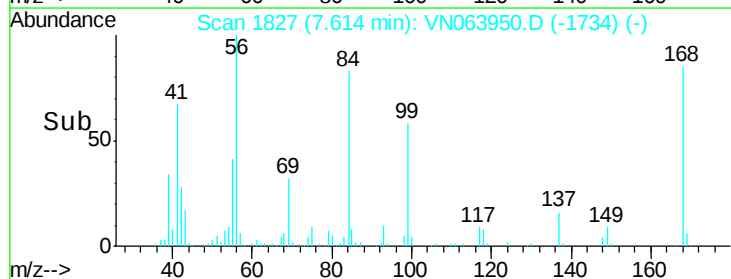
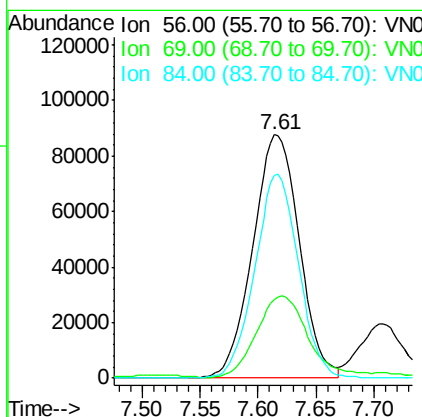
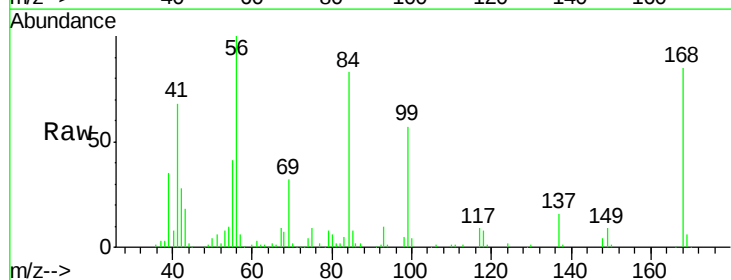
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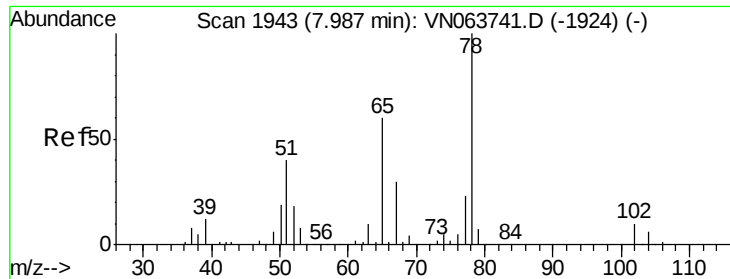
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#31
Cyclohexane
Concen: 50.224 ug/l
RT: 7.61 min Scan# 1827
Delta R.T. 0.00 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Tgt Ion	56	Resp	244862
Ion Ratio	56	100	
Lower	69	31.6	25.4
Upper	84	83.1	63.3
			94.9





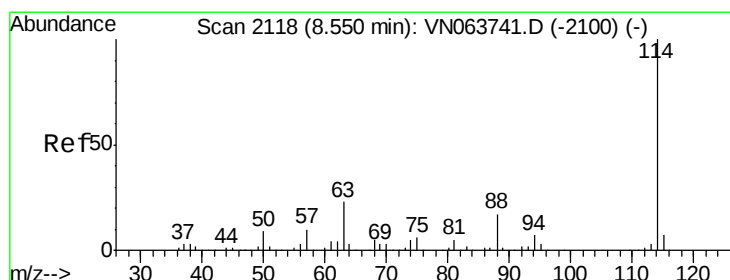
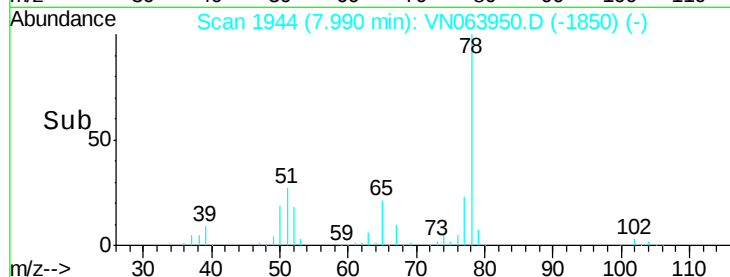
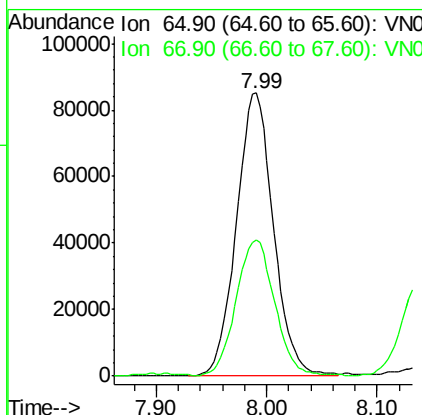
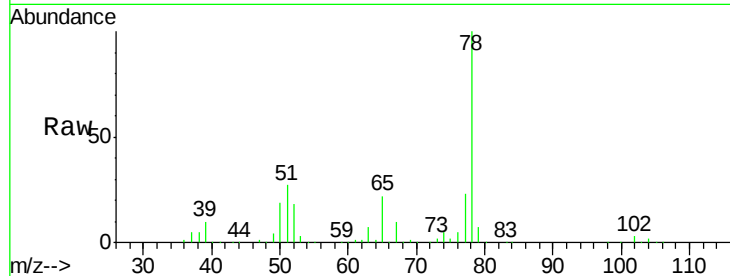
#33
 1,2-Dichloroethane-d4
 Concen: 47.155 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063950.D
 Acq: 7 Oct 2020 18:07

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-08

Tot Ion	Ratio	Resp	Lower	Upper
65	100	198028		
67	49.2	0.0	99.6	

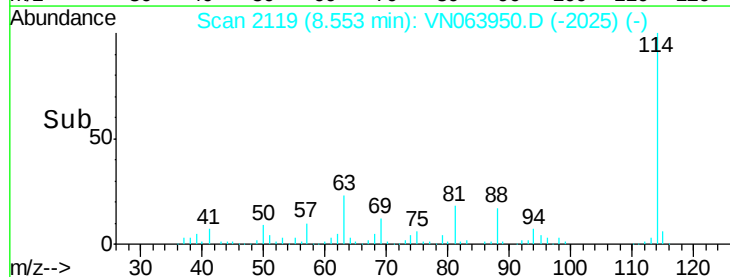
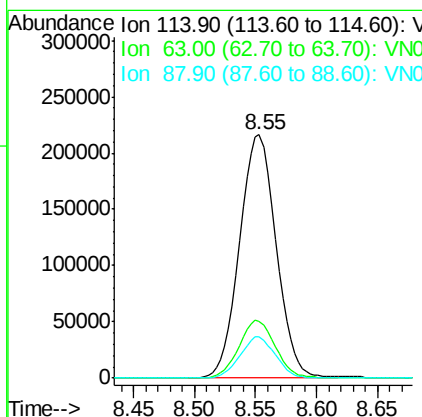
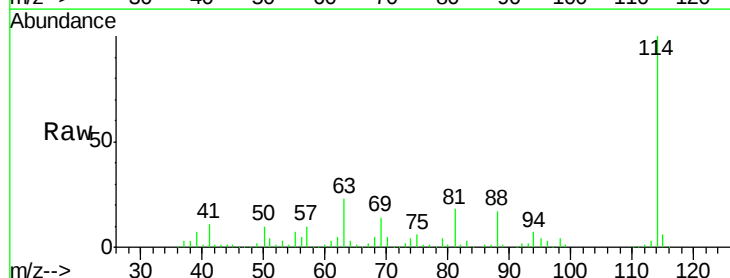
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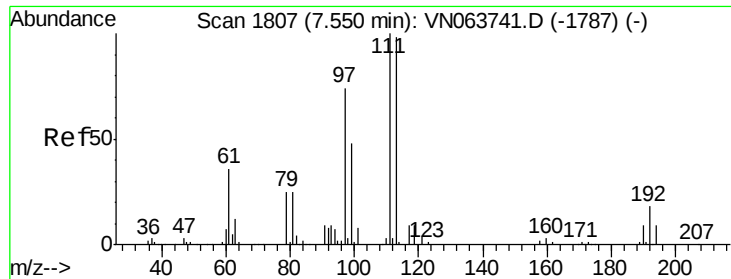
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063950.D
 Acq: 7 Oct 2020 18:07

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	449229		
63	23.3	0.0	45.0	
88	16.9	0.0	34.0	





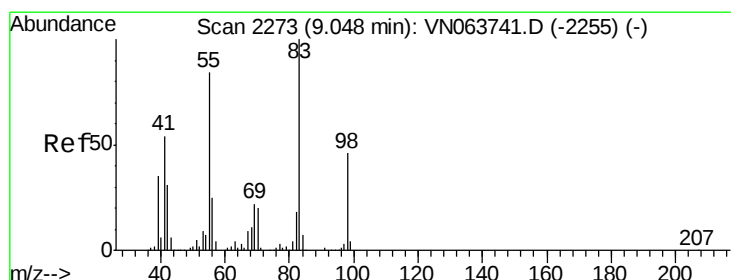
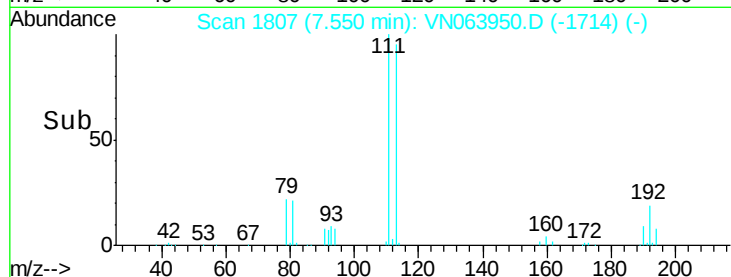
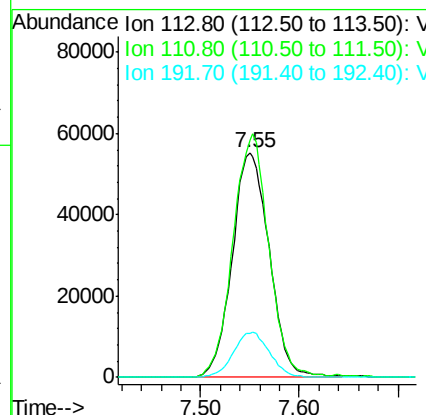
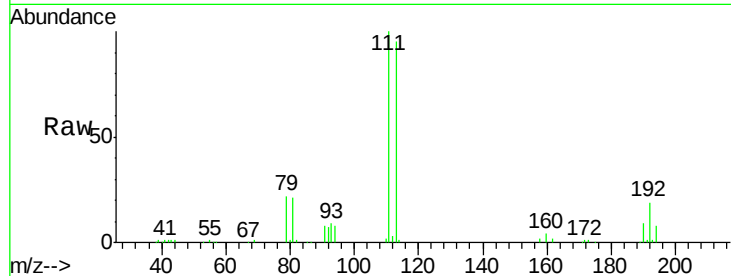
#35
Dibromofluoromethane
Concen: 46.319 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. -0.00 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Instrument :
MSVOA_N
ClientSampled :
MW-08

Tot Ion	Ratio	Lower	Upper
113	100		
111	105.0	81.8	122.8
192	19.5	14.2	21.2

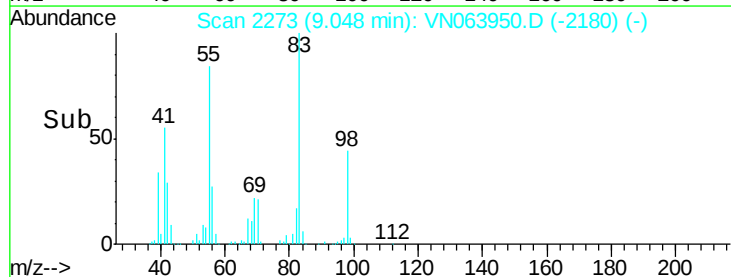
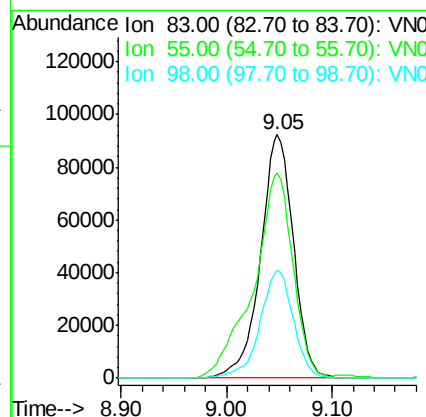
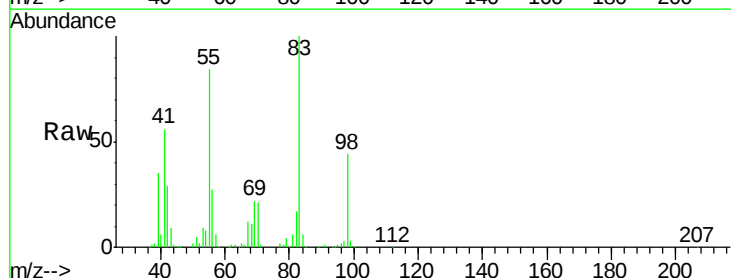
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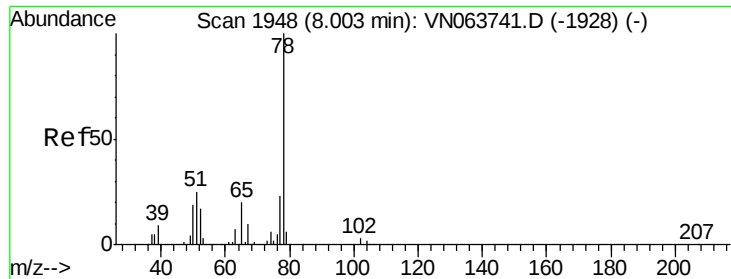
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#39
Methylcyclohexane
Concen: 44.197 ug/l
RT: 9.05 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Tgt Ion	Ratio	Lower	Upper
83	100		
55	84.1	67.1	100.7
98	44.2	36.6	54.8





#40

Benzene

Concen: 107.932 ug/l

RT: 8.00 min Scan# 1948

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

Instrument :

MSVOA_N

ClientSampled :

MW-08

Tot Ion: 78 Resp: 1403026

Ion Ratio Lower Upper

78 100

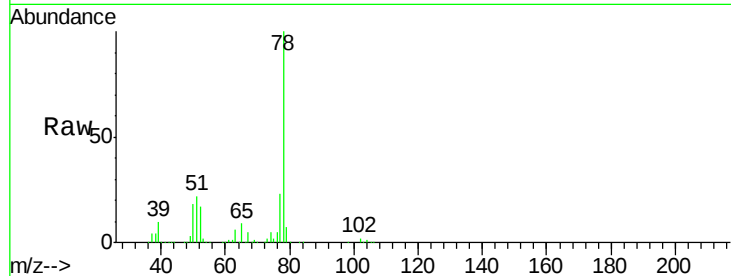
77 23.4 18.7 28.1

Manual Integrations

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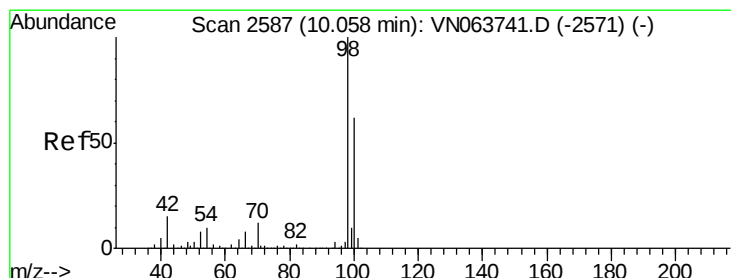
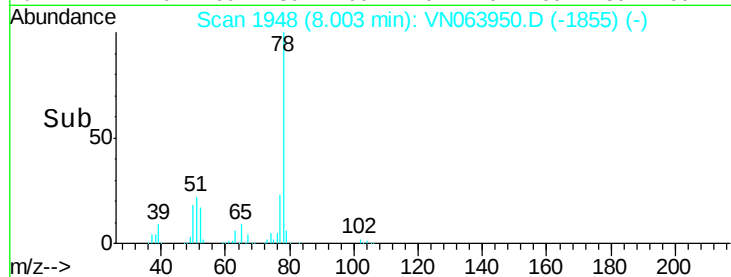
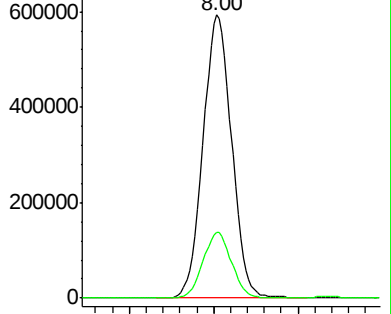
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Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#50

Toluene-d8

Concen: 49.108 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063950.D

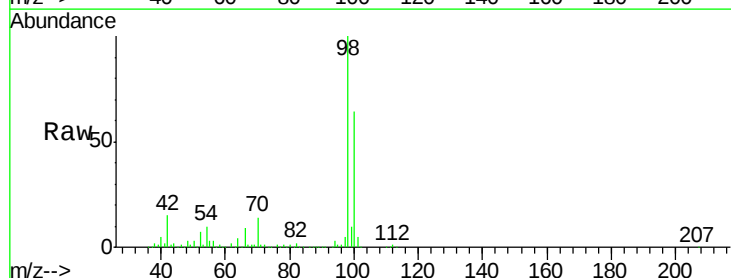
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Tgt Ion: 98 Resp: 580287

Ion Ratio Lower Upper

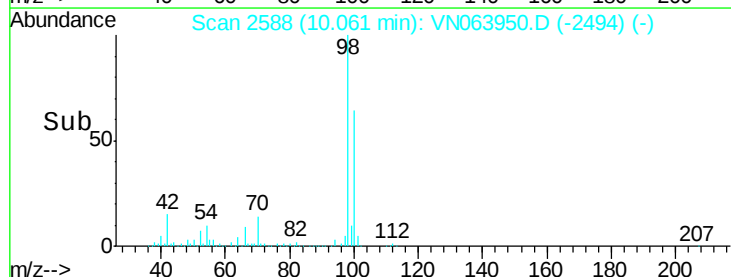
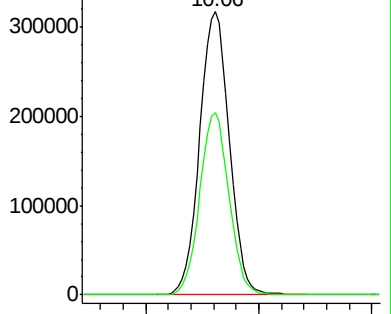
98 100

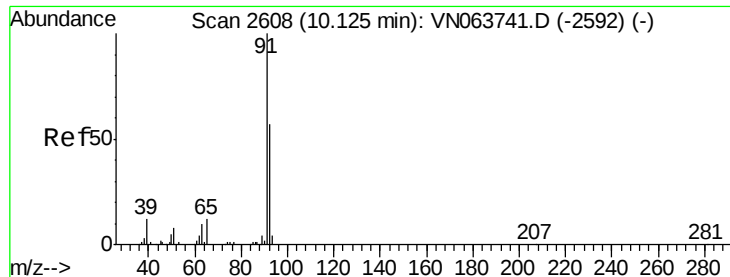
100 63.3 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 196.634 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

Instrument :

MSVOA_N

ClientSampled :

MW-08

Tot Ion: 92 Resp: 1581028

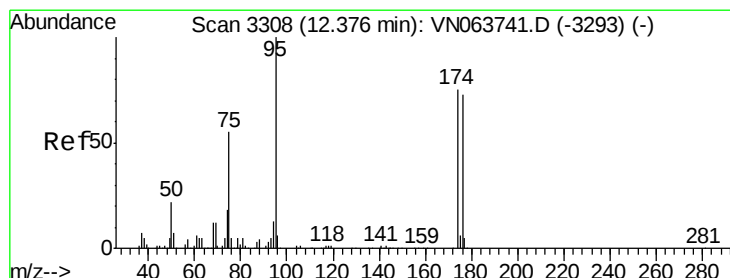
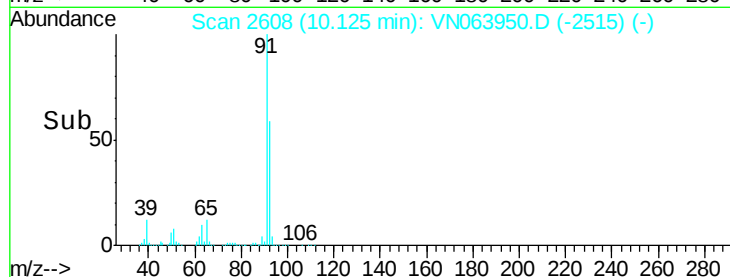
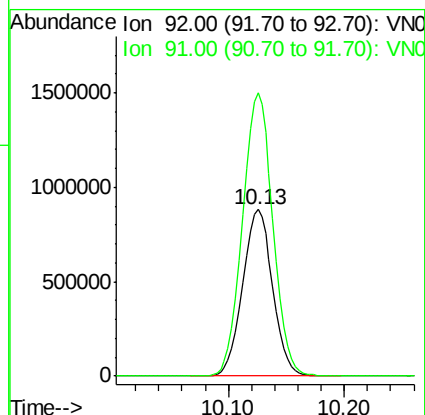
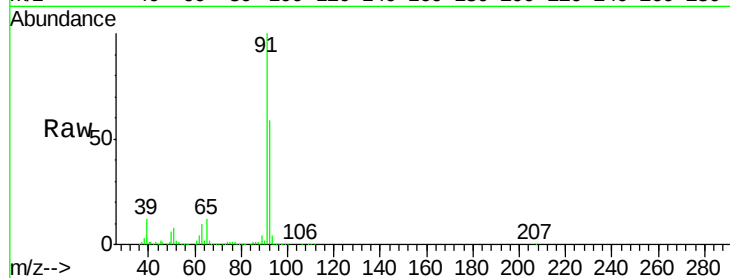
Ion Ratio Lower Upper

92 100

91 172.3 140.6 210.8

Manual Integrations
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10/8/2020 10:08:53 AM



#62

4-Bromofluorobenzene

Concen: 61.020 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

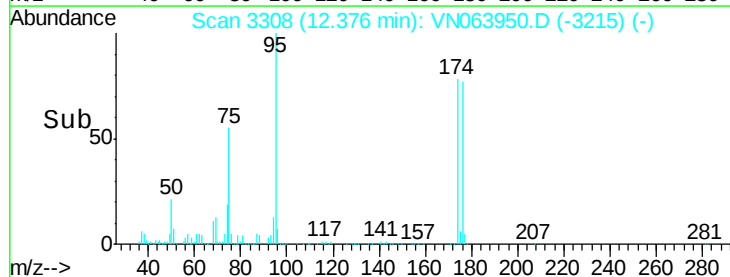
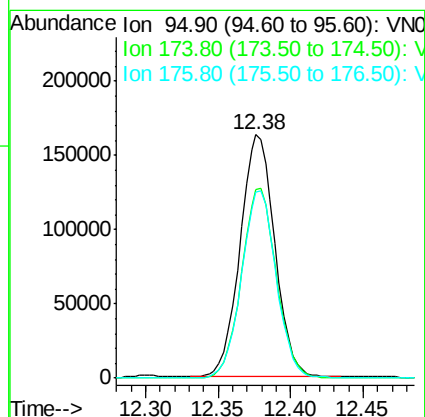
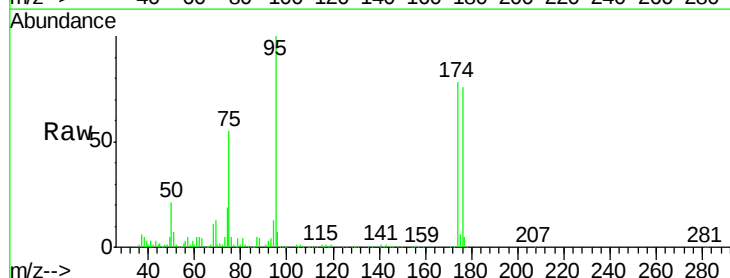
Tgt Ion: 95 Resp: 271047

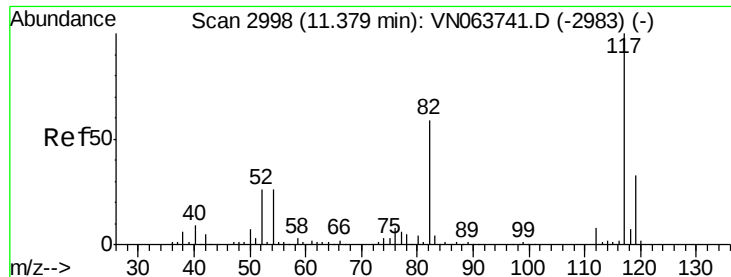
Ion Ratio Lower Upper

95 100

174 79.0 0.0 150.6

176 77.5 0.0 145.4





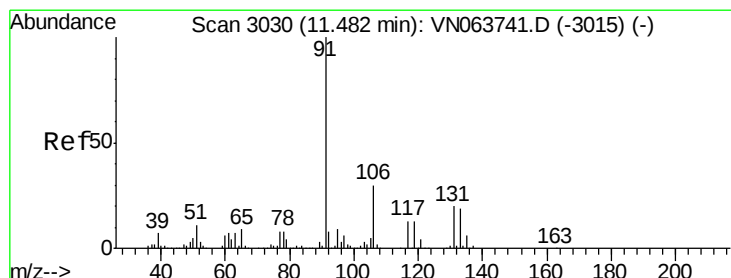
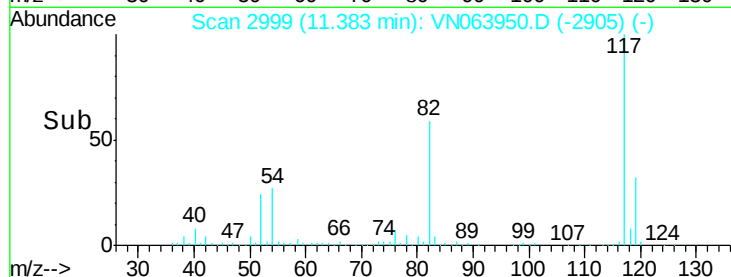
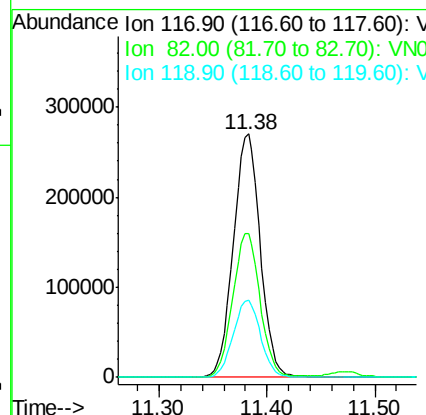
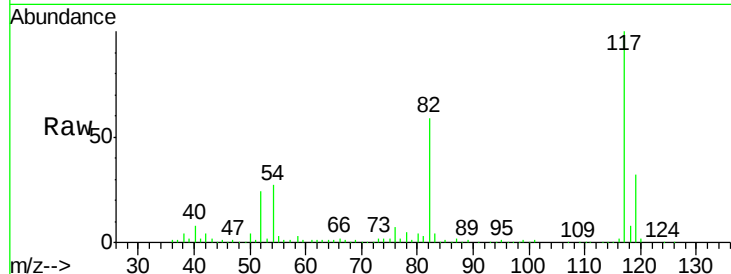
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2999
Delta R.T. 0.00 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Instrument :
MSVOA_N
ClientSampled :
MW-08

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.1	47.4	71.2
119	31.5	26.4	39.6

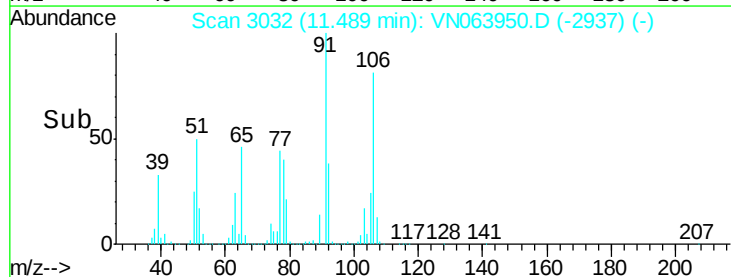
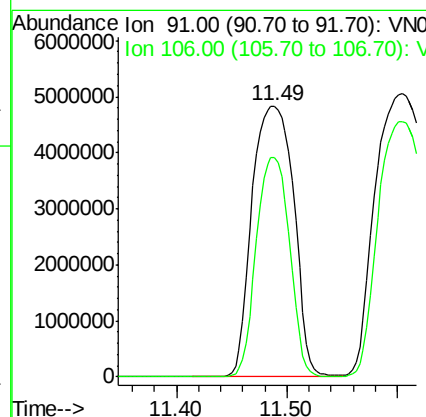
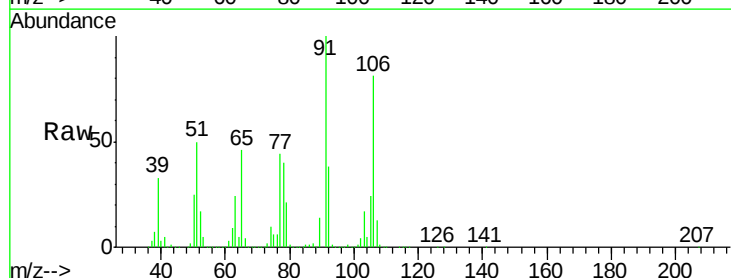
Manual Integrations
APPROVED

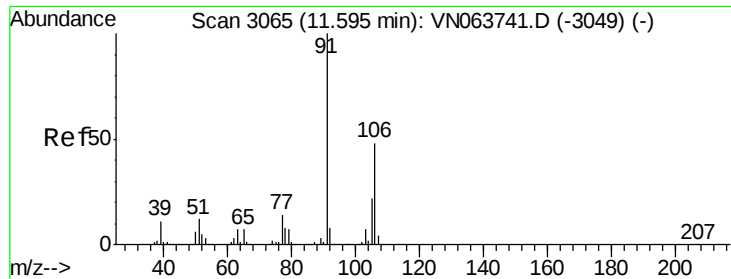
MMDadoda
10/8/2020 10:08:53 AM



#67
Ethyl Benzene
Concen: 720.333 ug/l
RT: 11.49 min Scan# 3032
Delta R.T. 0.01 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Tgt Ion	Ratio	Lower	Upper
91	100		
106	81.0	24.2	36.2





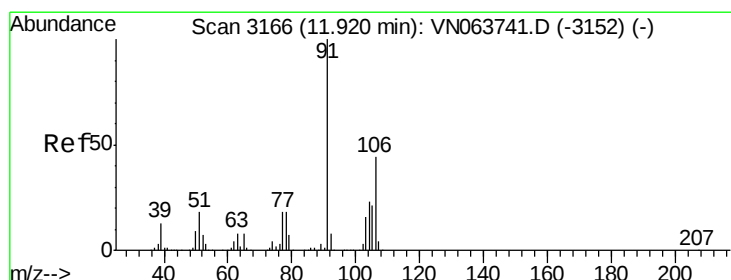
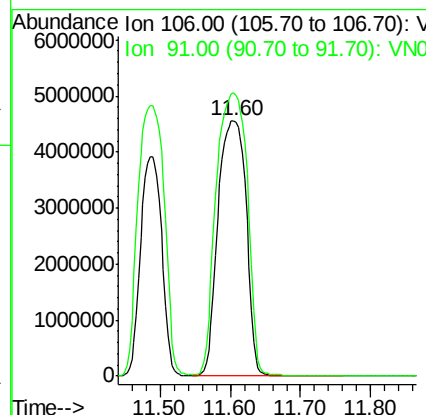
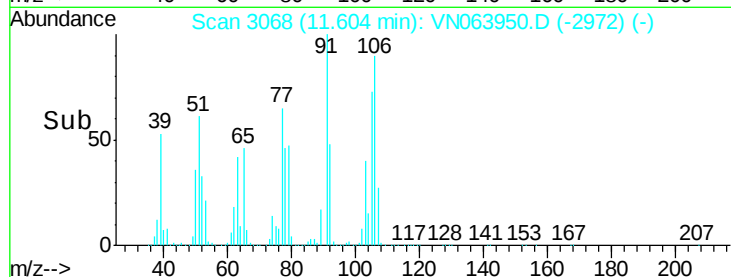
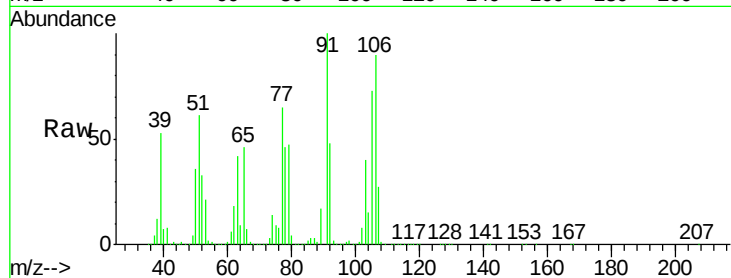
#68
m/p-Xylenes
Concen: 1930.796 ug/l
RT: 11.60 min Scan# 3068
Delta R.T. 0.01 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Instrument :
MSVOA_N
ClientSampled :
MW-08

Tot Ion:106 Resp:12651423
Ion Ratio Lower Upper
106 100
91 123.6 168.0 252.0#

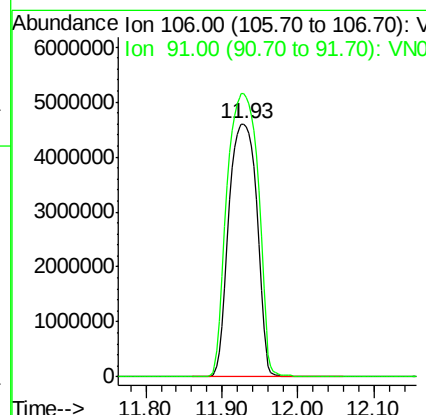
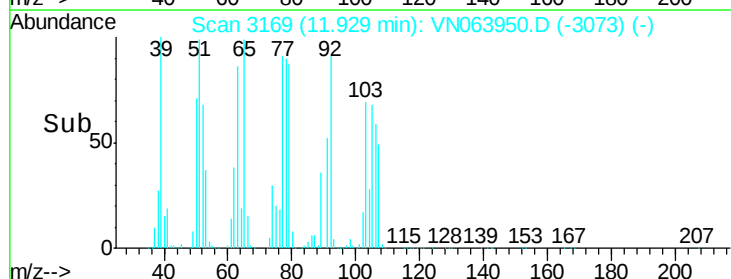
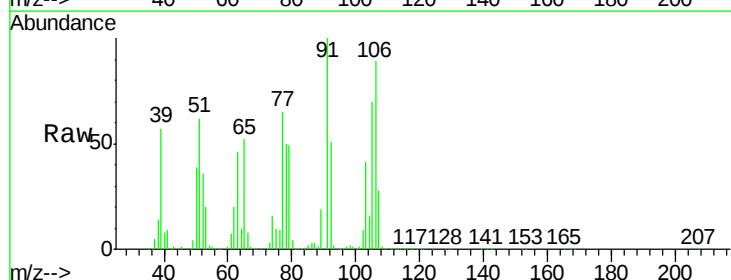
Manual Integrations
APPROVED

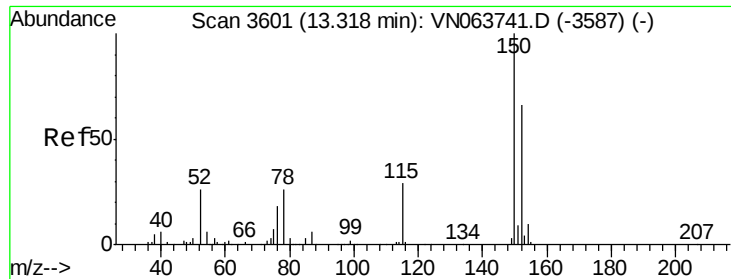
MMDadoda
10/8/2020 10:08:53 AM



#69
o-Xylene
Concen: 1924.510 ug/l
RT: 11.93 min Scan# 3169
Delta R.T. 0.01 min
Lab File: VN063950.D
Acq: 7 Oct 2020 18:07

Tgt Ion:106 Resp:11786374
Ion Ratio Lower Upper
106 100
91 125.0 112.7 338.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

Instrument :

MSVOA_N

ClientSampled :

MW-08

Tot Ion:152 Resp: 277735

Ion Ratio Lower Upper

152 100

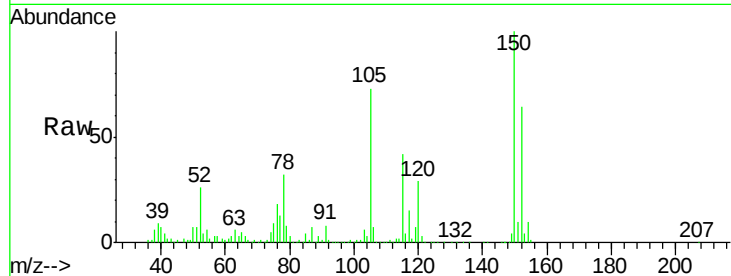
115 0.0 31.3 93.8#

150 157.6 0.0 341.8

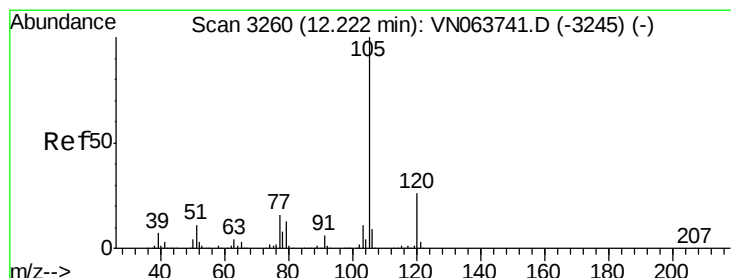
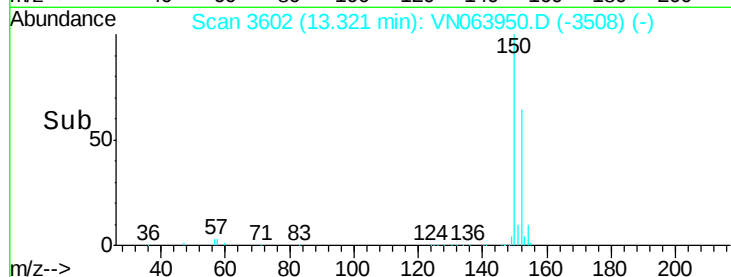
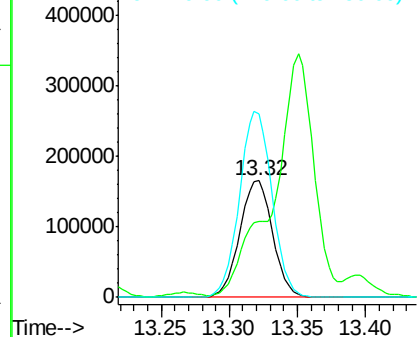
Manual Integrations
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Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 84.929 ug/l

RT: 12.23 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN063950.D

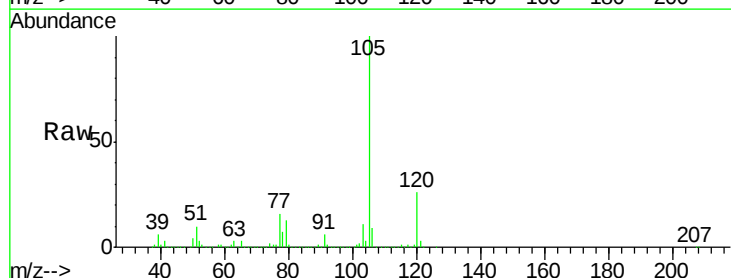
Acq: 7 Oct 2020 18:07

Tgt Ion:105 Resp: 1720480

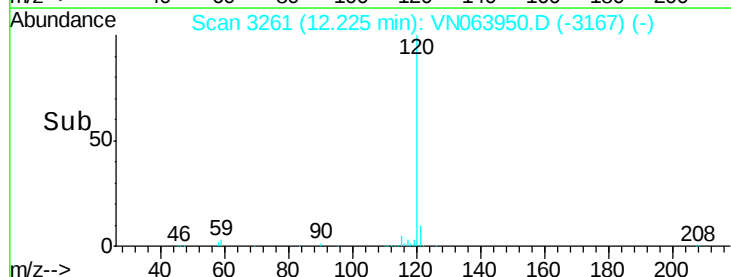
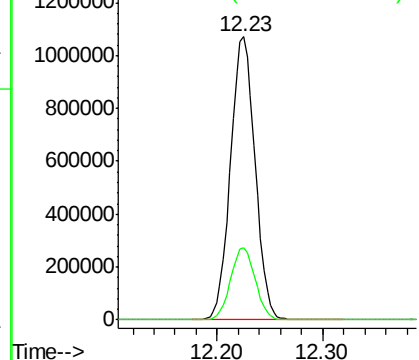
Ion Ratio Lower Upper

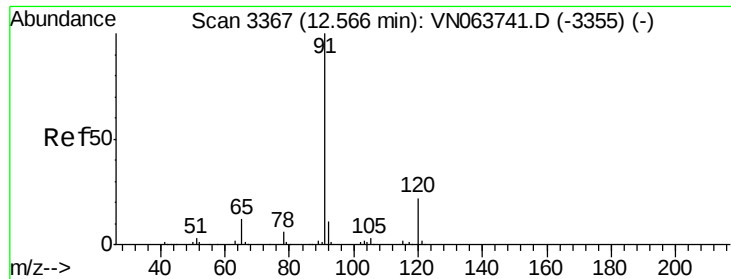
105 100

120 25.7 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 174.651 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

Instrument :

MSVOA_N

ClientSampled :

MW-08

Tot Ion: 91 Resp: 4117582

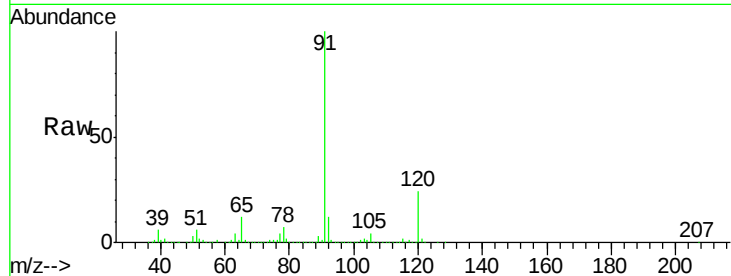
Ion Ratio Lower Upper

91 100

120 23.3 11.1 33.1

Manual Integrations
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10/8/2020 10:08:53 AM



Abundance Ion 91.00 (90.70 to 91.70): VN063950.D (-3274) (-)

Ion 120.00 (119.70 to 120.70): VN063950.D (-3274) (-)

12.57

2500000

2000000

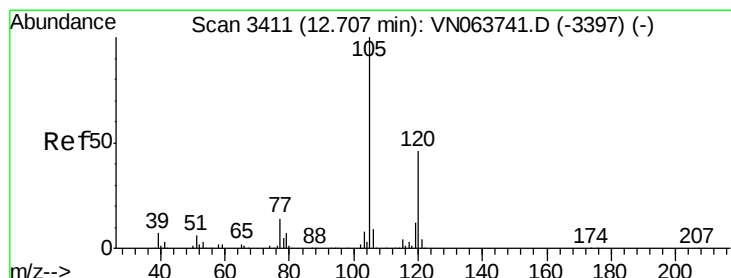
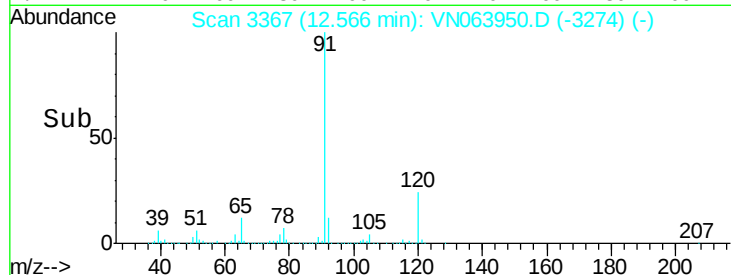
1500000

1000000

500000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 252.939 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063950.D

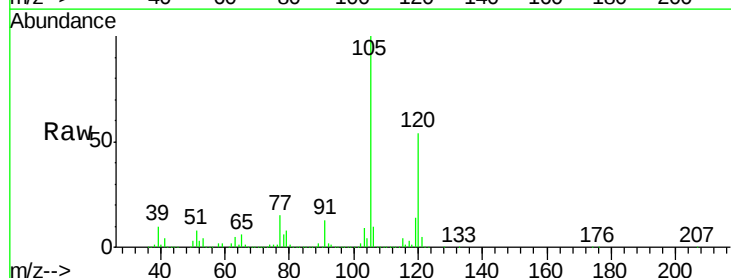
Acq: 7 Oct 2020 18:07

Tgt Ion: 105 Resp: 4298746

Ion Ratio Lower Upper

105 100

120 52.8 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VN063950.D (-3318) (-)

Ion 120.00 (119.70 to 120.70): VN063950.D (-3318) (-)

12.71

4000000

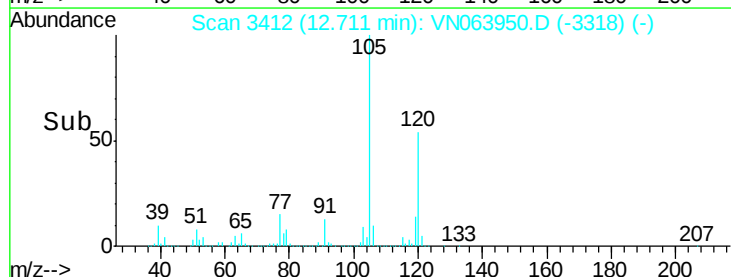
3000000

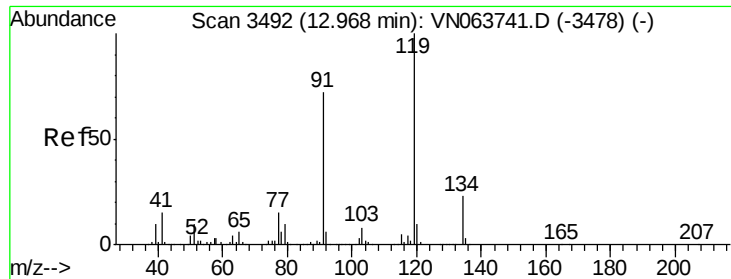
2000000

1000000

0

Time-->





#83

tert-Butylbenzene

Concen: 0.535 ug/l m

RT: 12.97 min Scan# 3493

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

MW-08

Tot Ion:119 Resp: 7435

Ion Ratio Lower Upper

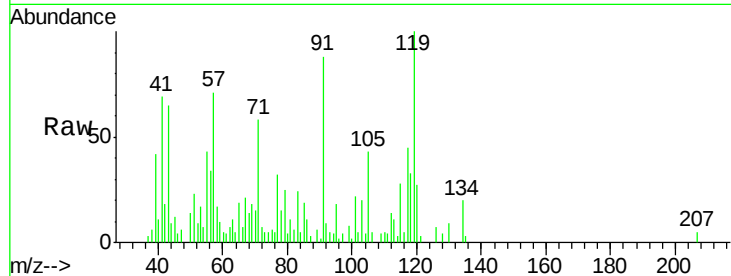
119 100

91 61310.4 35.5 106.

134 0.0 11.7 35.1#

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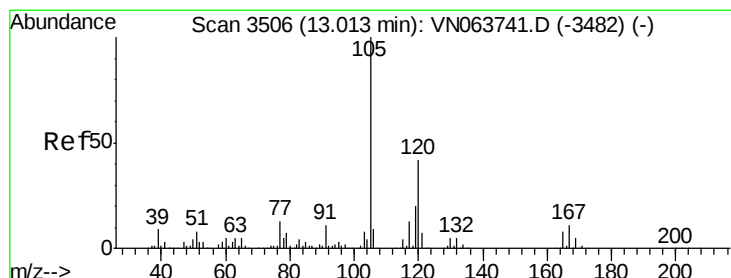
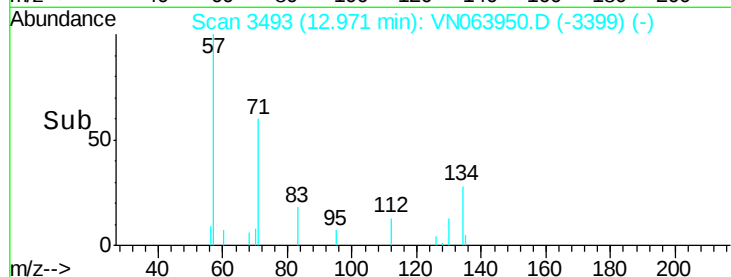
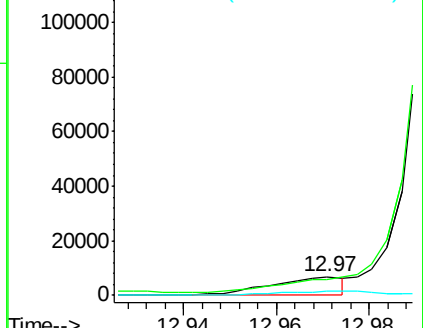
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 730.418 ug/l m

RT: 13.02 min Scan# 3508

Delta R.T. 0.01 min

Lab File: VN063950.D

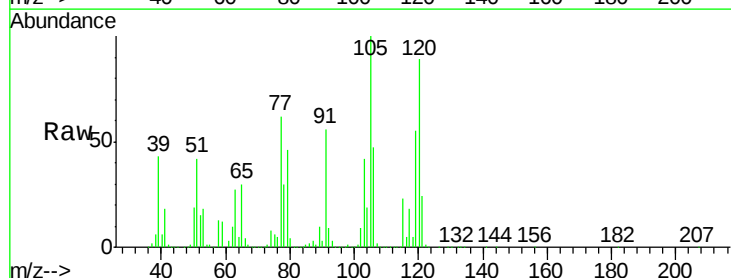
Acq: 7 Oct 2020 18:07

Tgt Ion:105 Resp:12393842

Ion Ratio Lower Upper

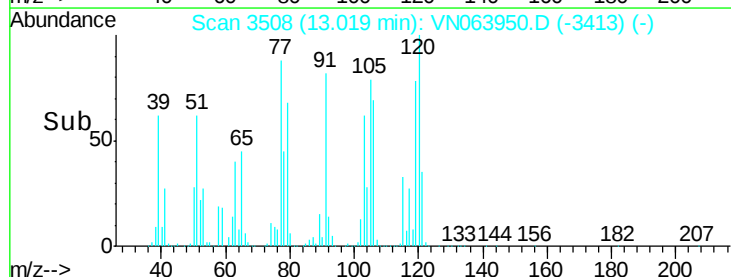
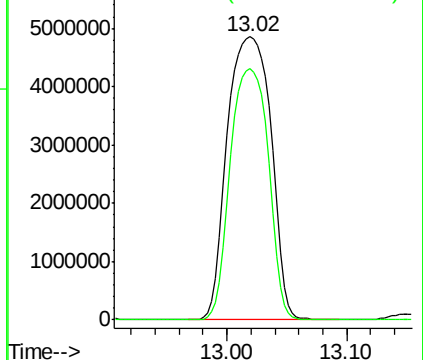
105 100

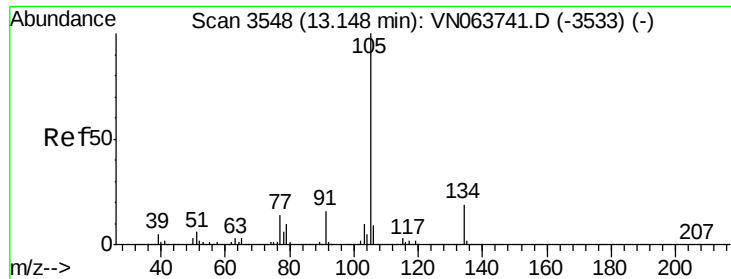
120 28.5 20.9 62.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 9.502 ug/l m

RT: 13.15 min Scan# 3548

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

MW-08

Tot Ion:105 Resp: 173499

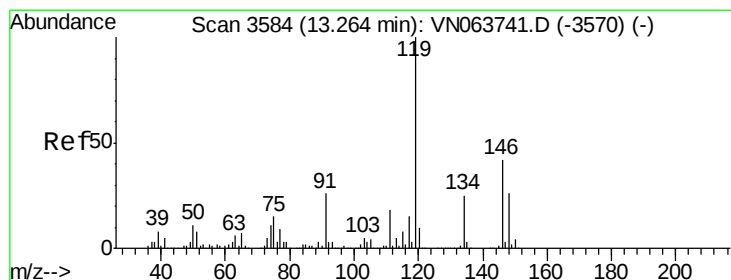
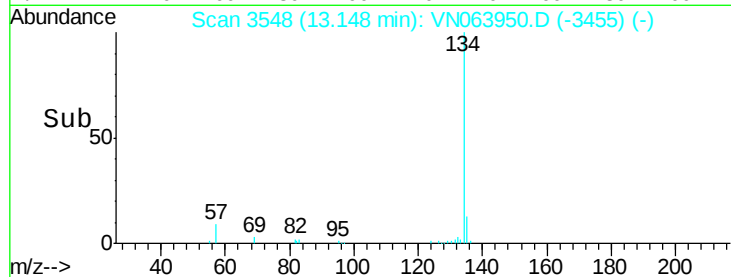
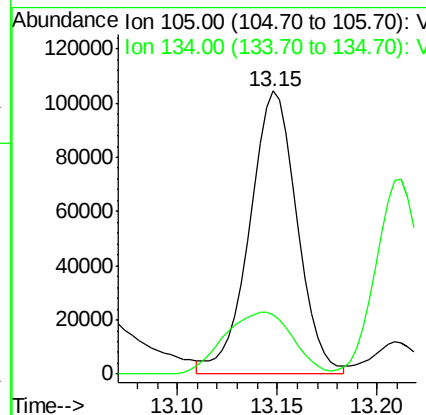
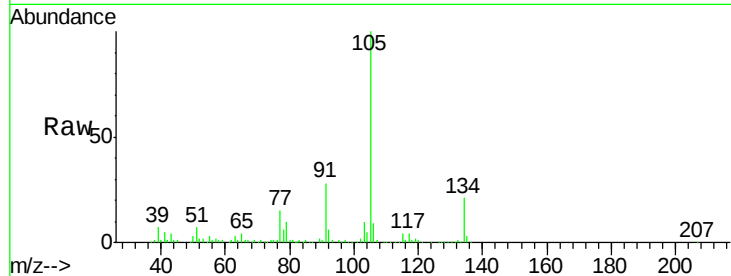
Ion Ratio Lower Upper

105 100

134 0.0 9.5 28.5#

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 7.274 ug/l m

RT: 13.27 min Scan# 3585

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

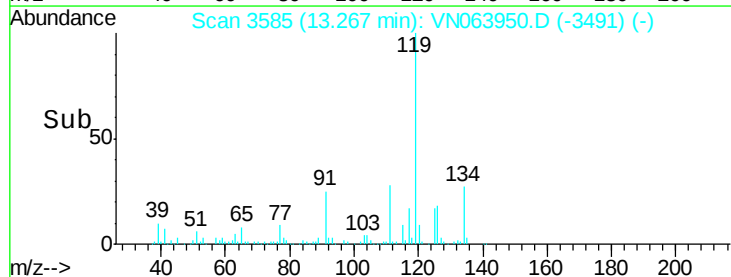
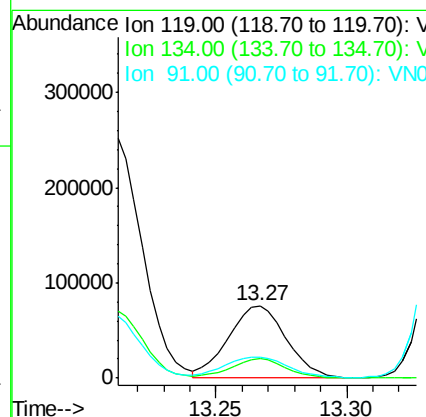
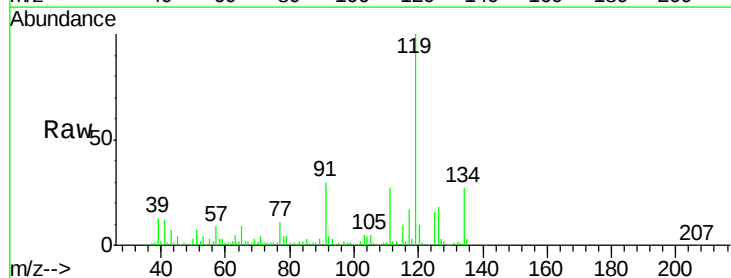
Tgt Ion:119 Resp: 117498

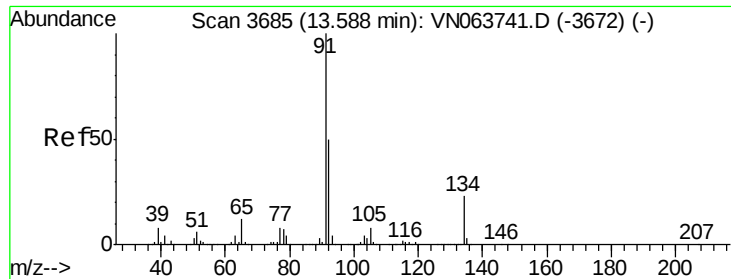
Ion Ratio Lower Upper

119 100

134 95.7 12.6 37.8#

91 0.0 13.4 40.2#





#89

n-Butylbenzene

Concen: 13.014 ug/l m

RT: 13.59 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

Instrument :

MSVOA_N

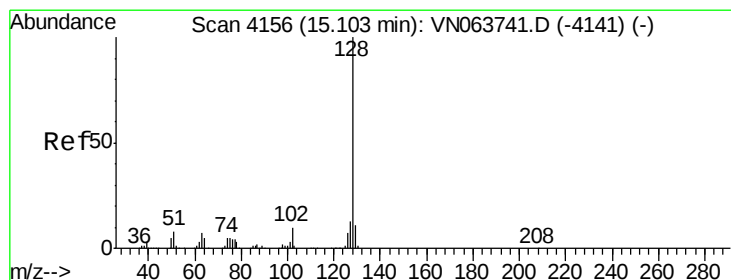
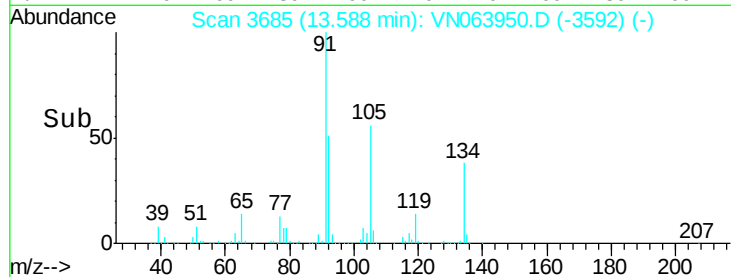
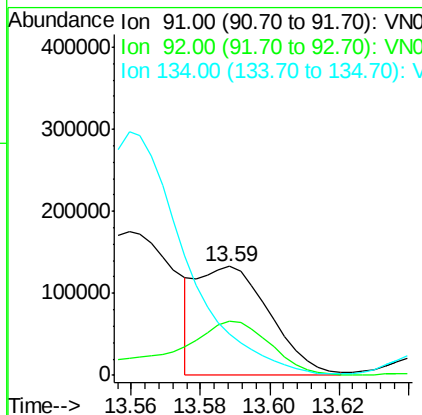
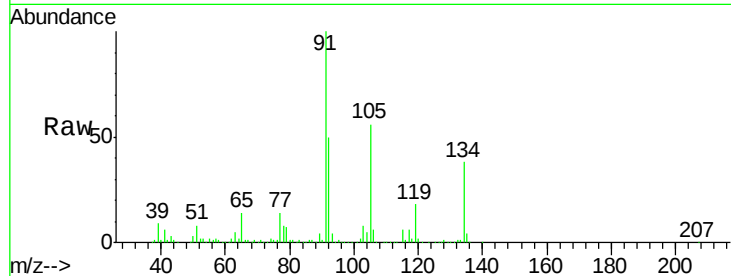
ClientSampled :

MW-08

Tot Ion	Ratio	Lower	Upper
91	100		
92	145.5	25.4	76.4#
134	93.2	11.7	35.1#

Manual Integrations
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#95

Naphthalene

Concen: 596.972 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063950.D

Acq: 7 Oct 2020 18:07

Tgt Ion	Ratio	Lower	Upper
128	100		
127	21.0	10.5	15.7#
129	18.2	8.7	13.1#

