

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091715\
 Data File : VN027259.D
 Acq On : 17 Sep 2015 17:03
 Operator : MD\FY
 Sample : G3704-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-9-15-15

Manual Integrations
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 9/18/2015 12:23:17 PM

Quant Time: Sep 18 12:18:09 2015
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N091515W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 15 21:12:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.75	168	717945	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1283422	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	1086068	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	403418	50.00	ug/l	0.00
System Monitoring Compounds						
34) 1,2-Dichloroethane-d4	8.12	65	723951	49.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.42%	
36) Dibromofluoromethane	7.68	113	461461	51.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.74%	
51) Toluene-d8	10.19	98	1868756	53.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.30%	
63) 4-Bromofluorobenzene	12.52	95	640155	51.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.56%	
Target Compounds						
40) Methylcyclohexane	9.19	83	29268	1.60	ug/l	92
68) Ethyl Benzene	11.62	91	724857	14.91	ug/l	100
69) m/p-Xylenes	11.72	106	703658	41.95	ug/l	89
70) o-Xylene	12.06	106	54643	3.25	ug/l	87
74) Isopropylbenzene	12.36	105	161510	3.63	ug/l	96
79) n-propylbenzene	12.71	91	343028	6.56	ug/l	97
81) 1,3,5-Trimethylbenzene	12.85	105	667100	18.68	ug/l	96
85) 1,2,4-Trimethylbenzene	13.16	105	2713202	75.64	ug/l	96
86) sec-Butylbenzene	13.29	105	84054	1.95	ug/l	89
87) p-Isopropyltoluene	13.41	119	76595	2.30	ug/l	97
90) n-Butylbenzene	13.74	91	49728m	1.54	ug/l	
96) Naphthalene	15.29	128	388188	16.63	ug/l	100

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

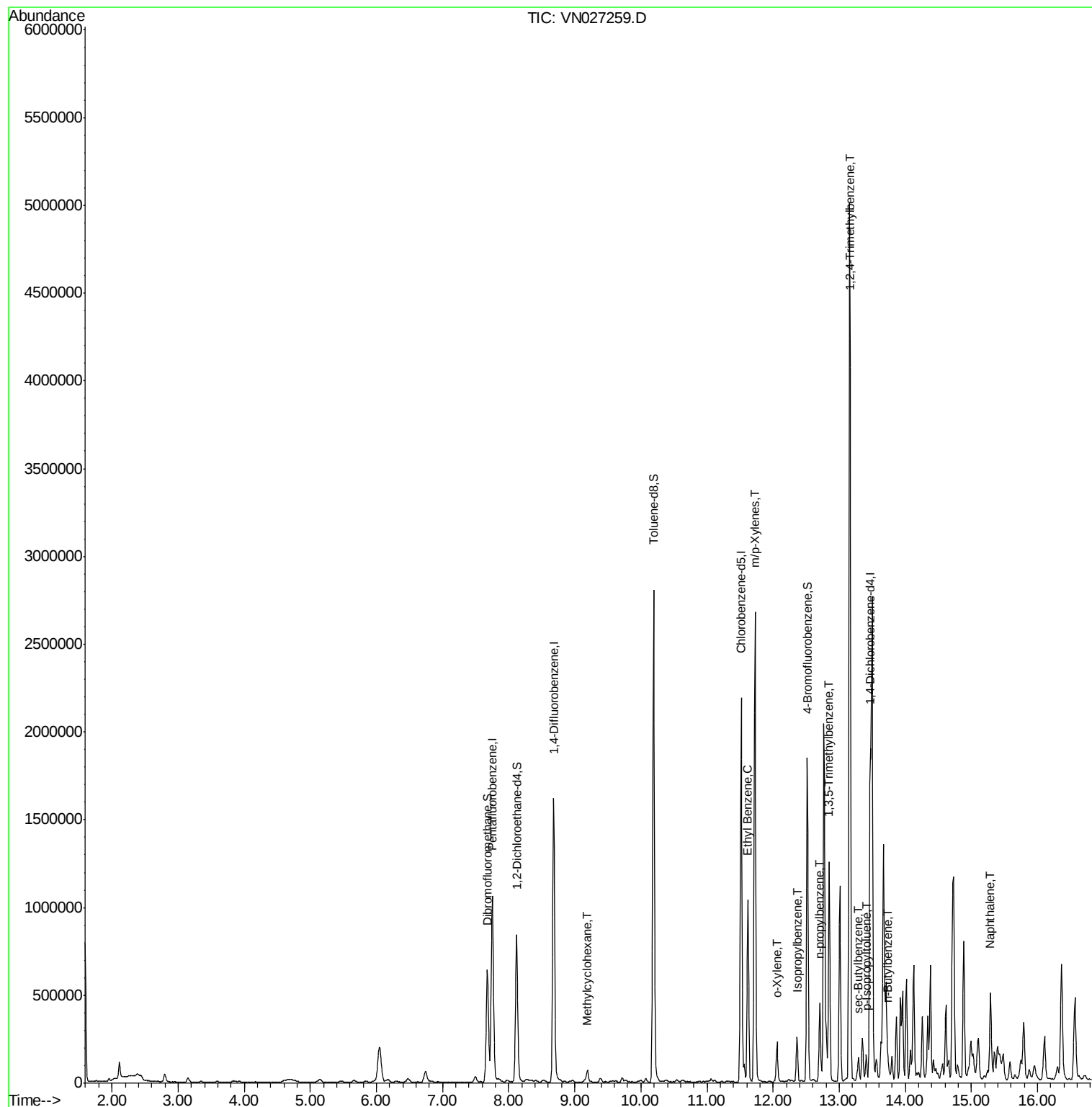
Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091715\
Data File : VN027259.D
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Sample : G3704-03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

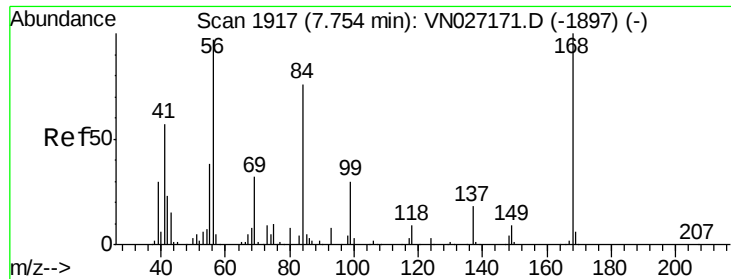
Instrument :
MSVOA_N
ClientSampleId :
MW-4-9-15-15

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9/18/2015 12:23:17 PM

Quant Time: Sep 18 12:18:09 2015
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N091515W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 15 21:12:09 2015
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VN027259.D

Acq: 17 Sep 2015 17:03

Instrument :

MSVOA_N

ClientSampleId :

MW-4-9-15-15

Tot Ion:168 Resp: 717945

Ion Ratio Lower Upper

168 100

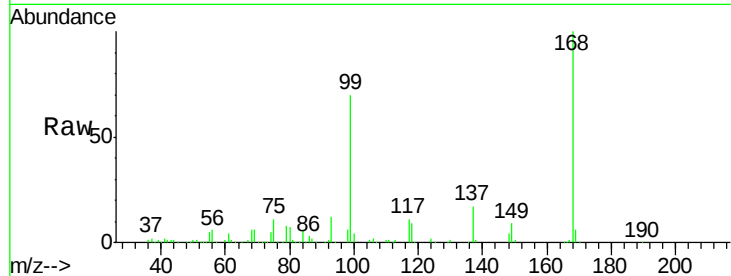
99 69.9 50.4 75.6

Manual Integrations

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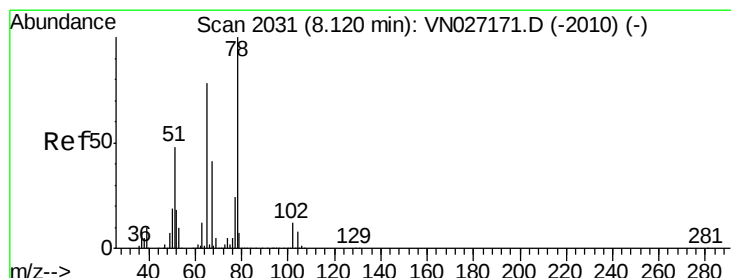
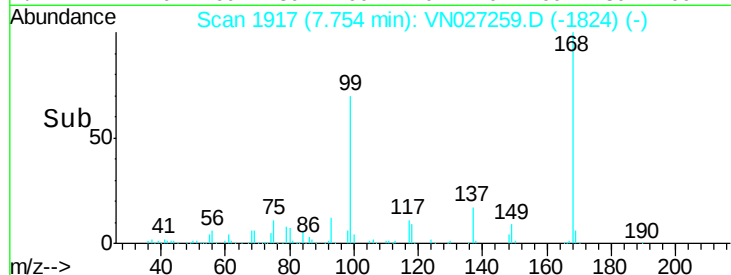
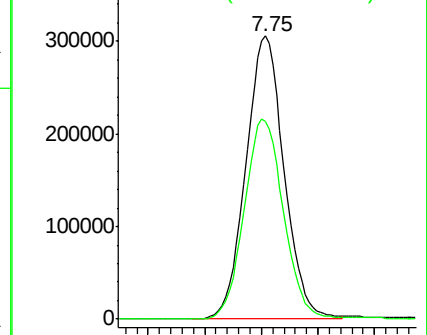
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#34

1,2-Dichloroethane-d4

Concen: 49.21 ug/l

RT: 8.12 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VN027259.D

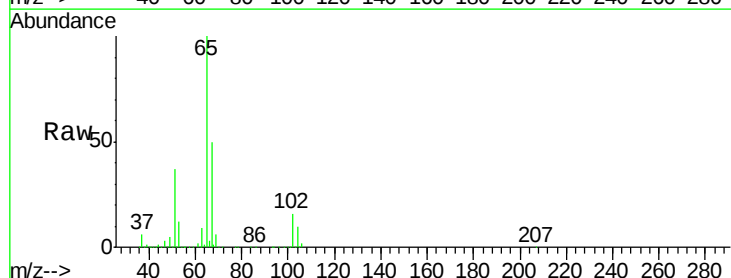
Acq: 17 Sep 2015 17:03

Tgt Ion: 65 Resp: 723951

Ion Ratio Lower Upper

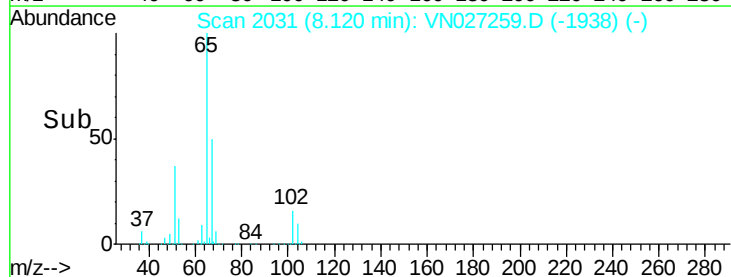
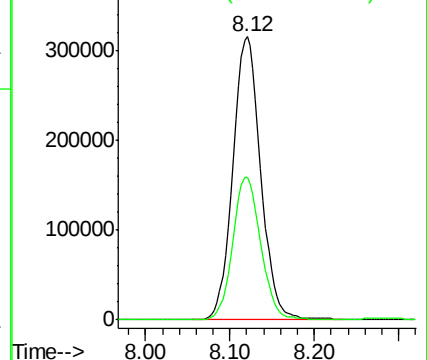
65 100

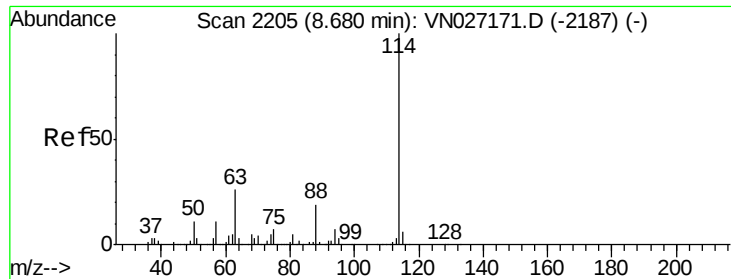
67 51.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO





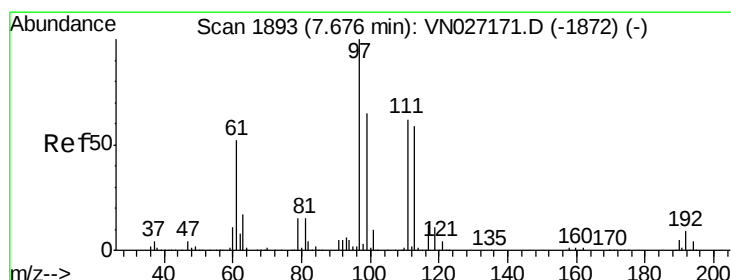
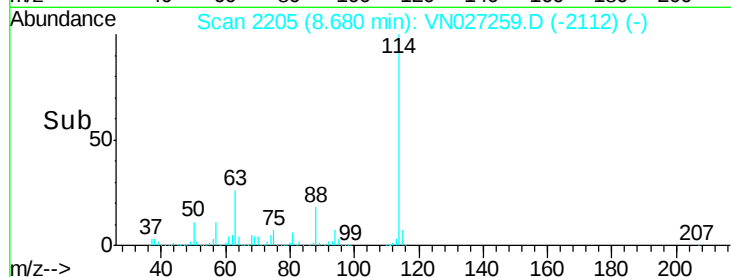
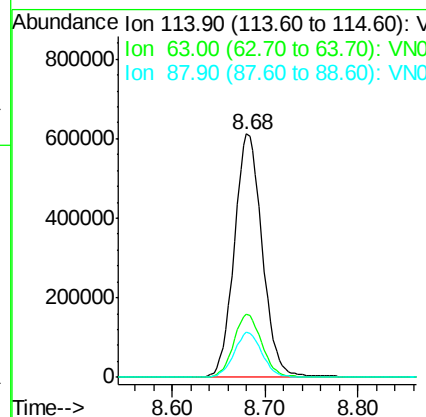
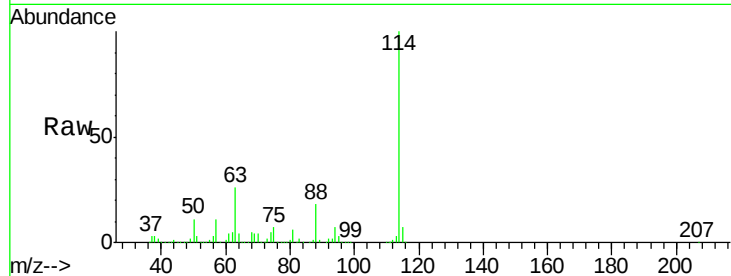
#35
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.68 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VN027259.D
 Acq: 17 Sep 2015 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-9-15-15

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.9	0.0	48.8
88	18.3	0.0	32.2

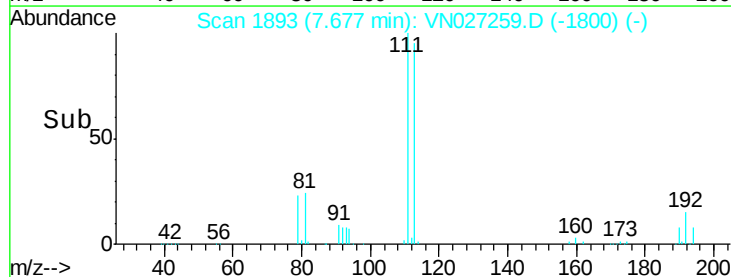
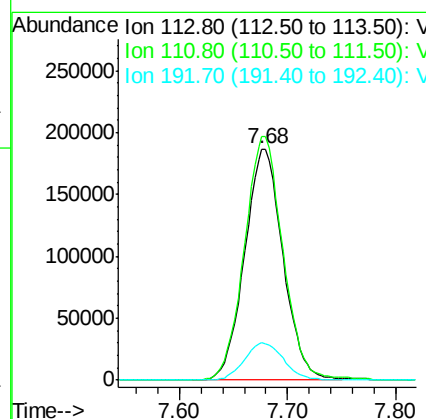
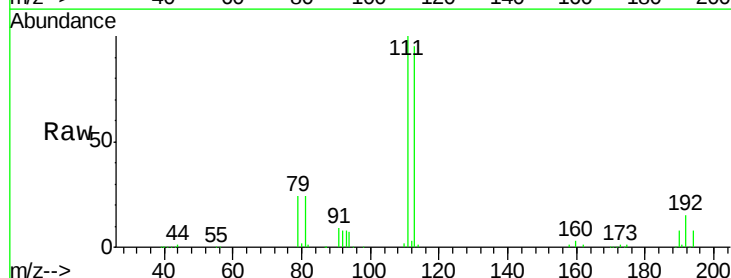
Manual Integrations
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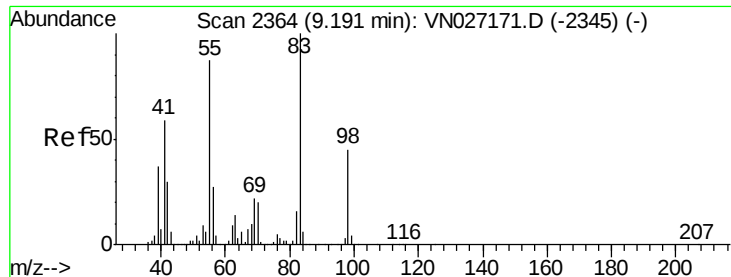
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#36
 Dibromofluoromethane
 Concen: 51.87 ug/l
 RT: 7.68 min Scan# 1893
 Delta R.T. 0.00 min
 Lab File: VN027259.D
 Acq: 17 Sep 2015 17:03

Tgt Ion	Ratio	Lower	Upper
113	100		
111	106.7	83.0	124.4
192	16.4	14.1	21.1





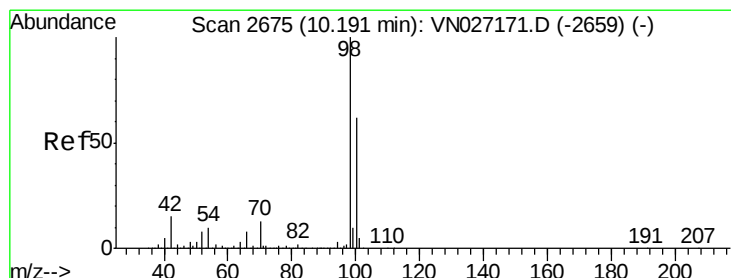
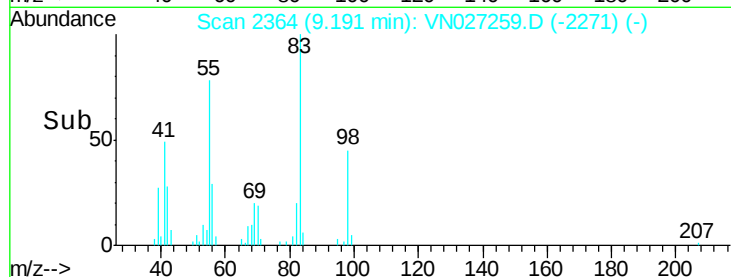
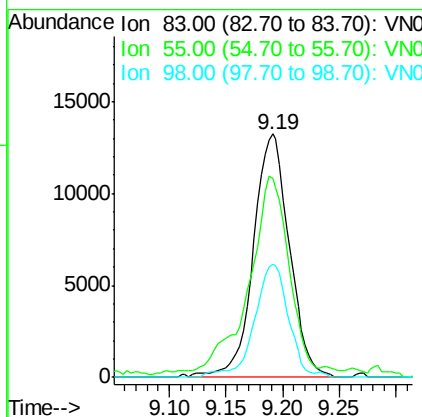
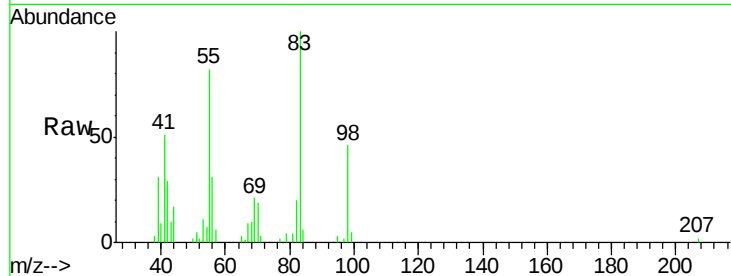
#40
Methvlcvclohexane
Concen: 1.60 ug/l
RT: 9.19 min Scan# 2364
Delta R.T. 0.00 min
Lab File: VN027259.D
Acq: 17 Sep 2015 17:03

Instrument :
MSVOA_N
ClientSampleId :
MW-4-9-15-15

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.0	69.8	104.8
98	46.2	34.3	51.5

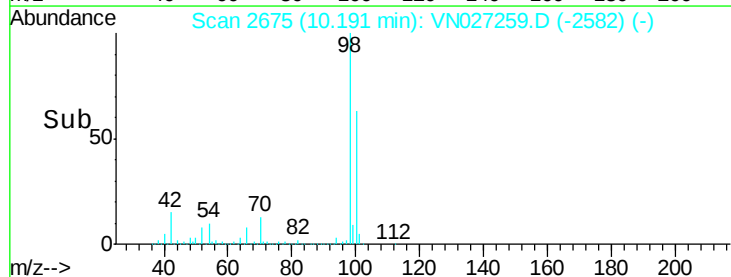
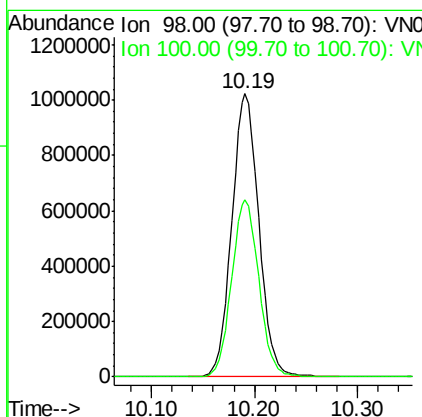
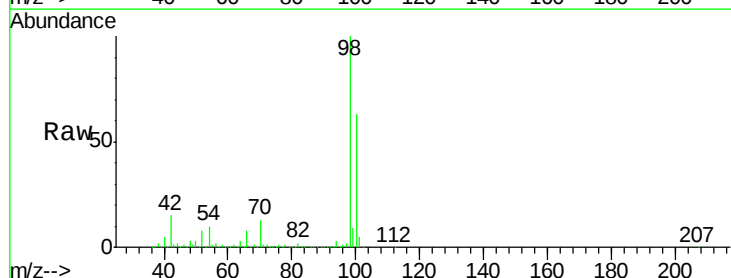
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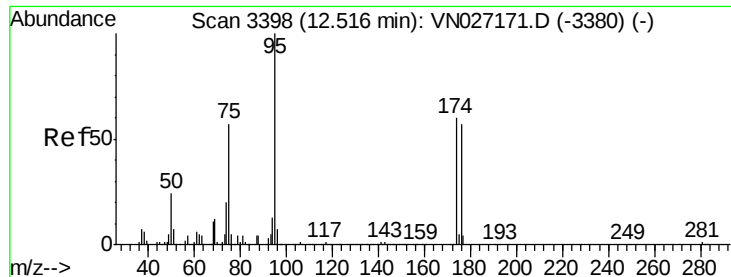
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#51
Toluene-d8
Concen: 53.65 ug/l
RT: 10.19 min Scan# 2675
Delta R.T. 0.00 min
Lab File: VN027259.D
Acq: 17 Sep 2015 17:03

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.2	50.5	75.7





#63

4-Bromofluorobenzene

Concen: 51.78 ug/l

RT: 12.52 min Scan# 3399

Delta R.T. 0.00 min

Lab File: VN027259.D

Acq: 17 Sep 2015 17:03

Instrument :

MSVOA_N

ClientSampleId :

MW-4-9-15-15

Tot Ion: 95 Resp: 640155

Ion Ratio Lower Upper

95 100

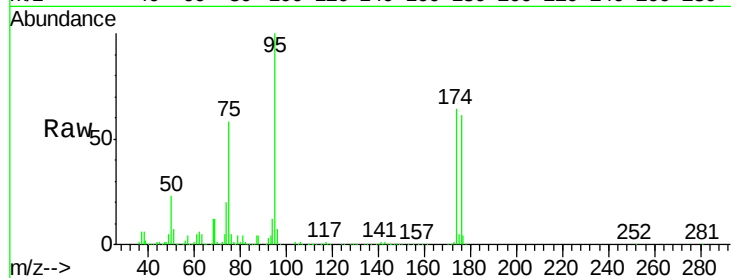
174 62.4 0.0 137.0

176 60.1 0.0 130.8

Manual Integrations
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Abundance Ion 94.90 (94.60 to 95.60): VN027171.D (-3380) (-)

Ion 173.80 (173.50 to 174.50): VN027171.D (-3380) (-)

Ion 175.80 (175.50 to 176.50): VN027171.D (-3380) (-)

12.52

400000

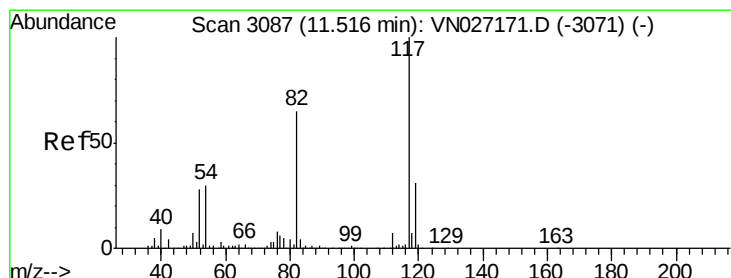
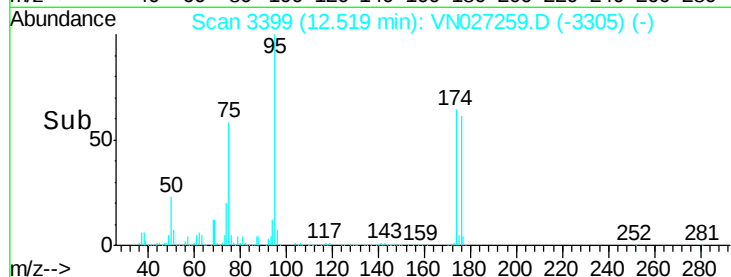
300000

200000

100000

0

Time--> 12.40 12.50 12.60



#64

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.52 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VN027259.D

Acq: 17 Sep 2015 17:03

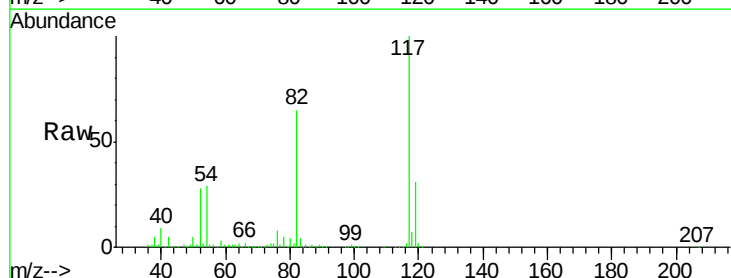
Tgt Ion: 117 Resp: 1086068

Ion Ratio Lower Upper

117 100

82 65.0 49.6 74.4

119 31.2 24.6 36.8



Abundance Ion 116.90 (116.60 to 117.60): VN027171.D (-3071) (-)

Ion 82.00 (81.70 to 82.70): VN027171.D (-3071) (-)

Ion 118.90 (118.60 to 119.60): VN027171.D (-3071) (-)

11.52

800000

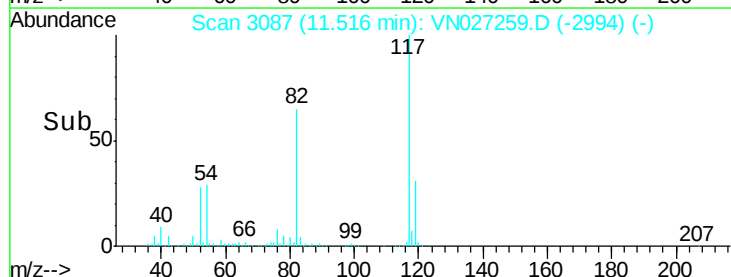
600000

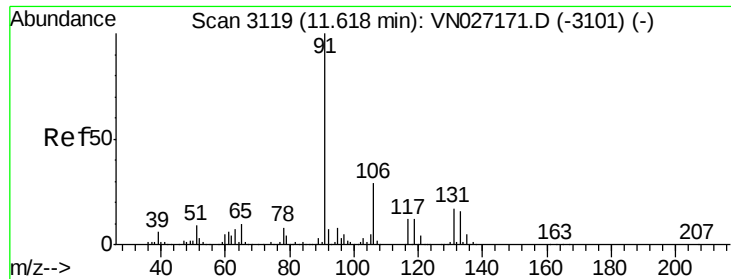
400000

200000

0

Time--> 11.40 11.50 11.60





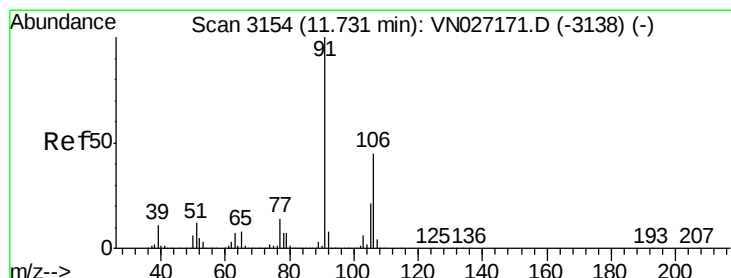
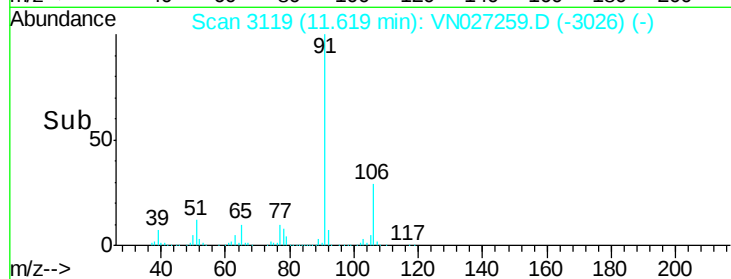
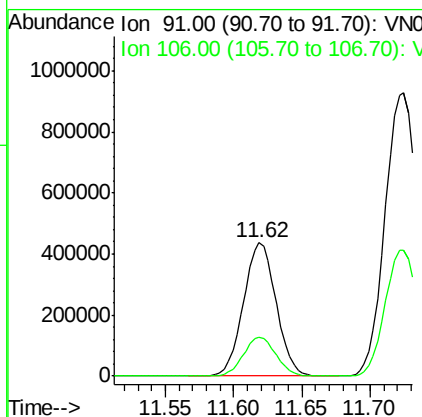
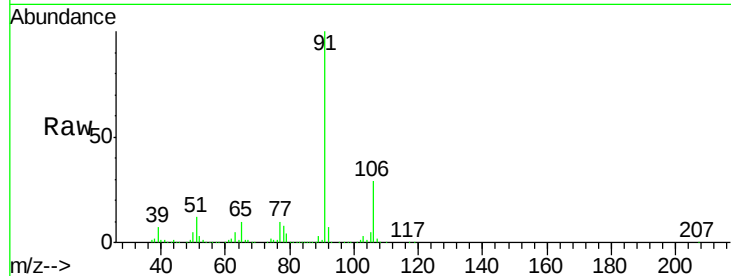
#68
Ethyl Benzene
Concen: 14.91 ug/l
RT: 11.62 min Scan# 3119
Delta R.T. 0.00 min
Lab File: VN027259.D
Acq: 17 Sep 2015 17:03

Instrument :
MSVOA_N
ClientSampled :
MW-4-9-15-15

Tot Ion: 91 Resp: 724857
Ion Ratio Lower Upper
91 100
106 29.1 23.1 34.7

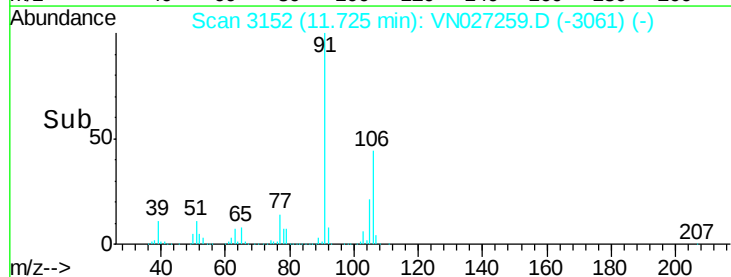
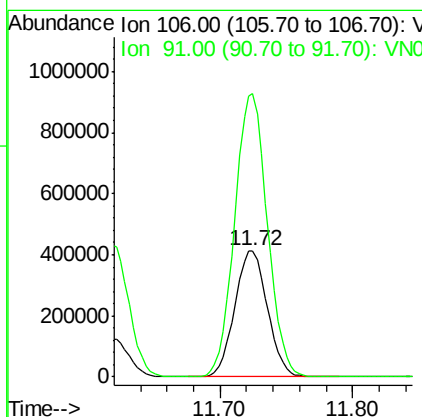
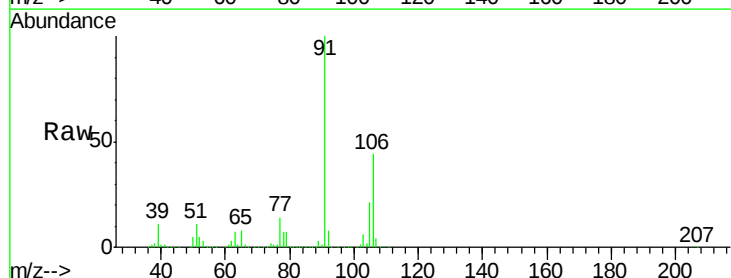
Manual Integrations
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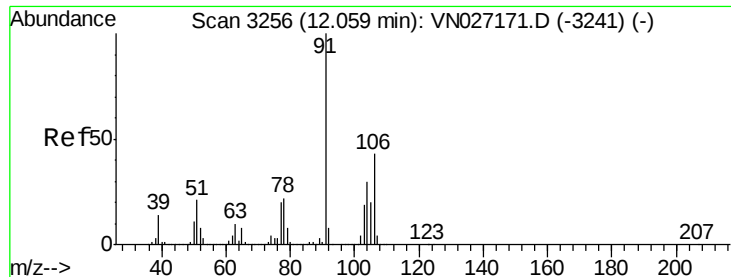
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#69
m/p-Xylenes
Concen: 41.95 ug/l
RT: 11.72 min Scan# 3152
Delta R.T. -0.01 min
Lab File: VN027259.D
Acq: 17 Sep 2015 17:03

Tgt Ion: 106 Resp: 703658
Ion Ratio Lower Upper
106 100
91 225.3 167.1 250.7





#70

o-Xylene

Concen: 3.25 ug/l

RT: 12.06 min Scan# 3256

Delta R.T. 0.00 min

Lab File: VN027259.D

Acq: 17 Sep 2015 17:03

Instrument :

MSVOA_N

ClientSampled :

MW-4-9-15-15

Tot Ion:106 Resp: 54643

Ion Ratio Lower Upper

106 100

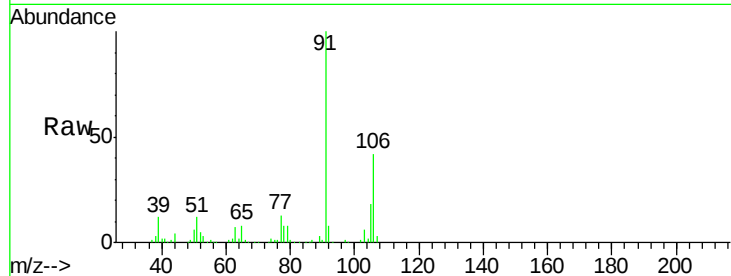
91 242.6 110.7 331.9

Manual Integrations

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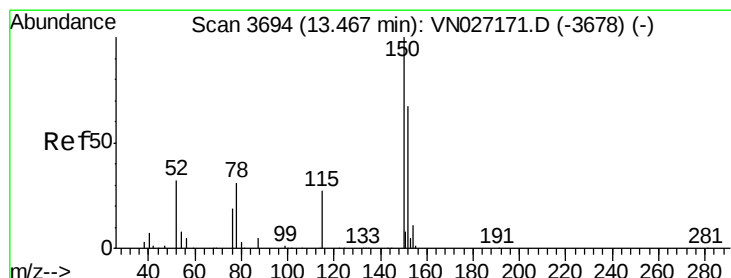
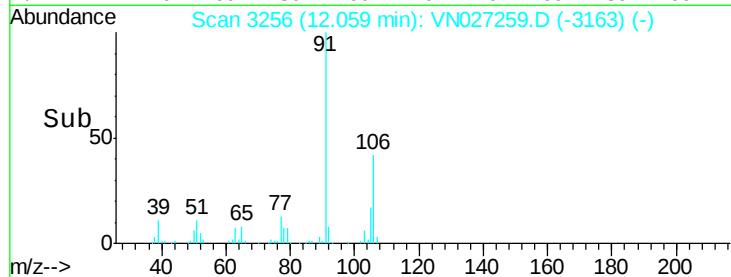
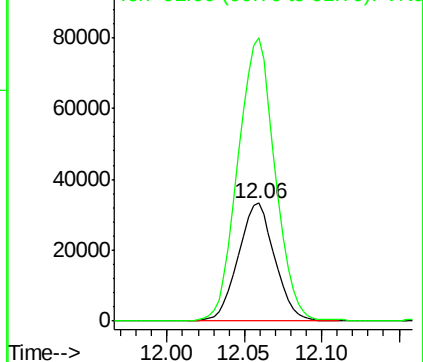
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#73

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.47 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN027259.D

Acq: 17 Sep 2015 17:03

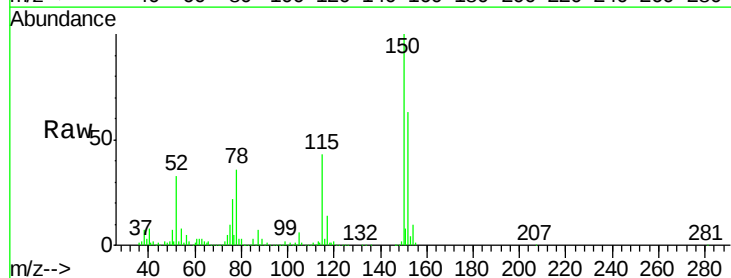
Tgt Ion:152 Resp: 403418

Ion Ratio Lower Upper

152 100

115 81.6 30.8 92.3

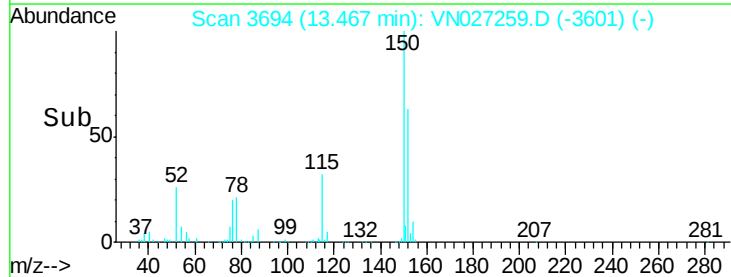
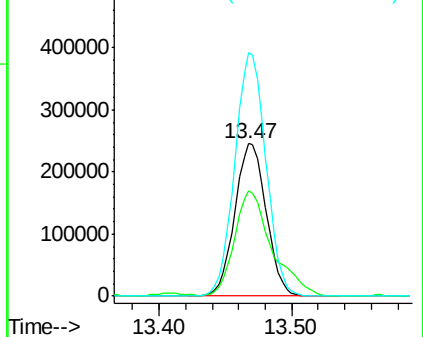
150 158.0 0.0 345.0

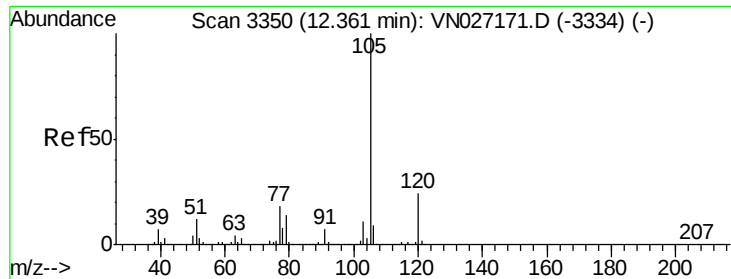


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

Isopropylbenzene

Concen: 3.63 ug/l

RT: 12.36 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VN027259.D

Acq: 17 Sep 2015 17:03

Instrument :

MSVOA_N

ClientSampleId :

MW-4-9-15-15

Tot Ion: 105 Resp: 161510

Ion Ratio Lower Upper

105 100

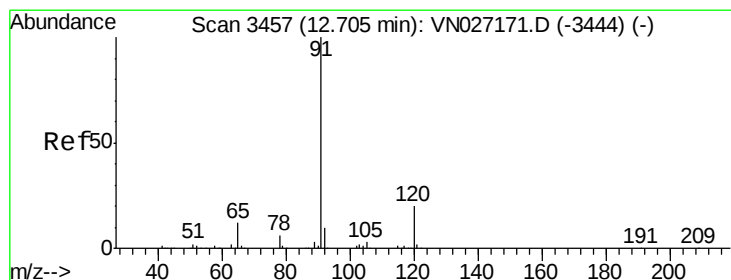
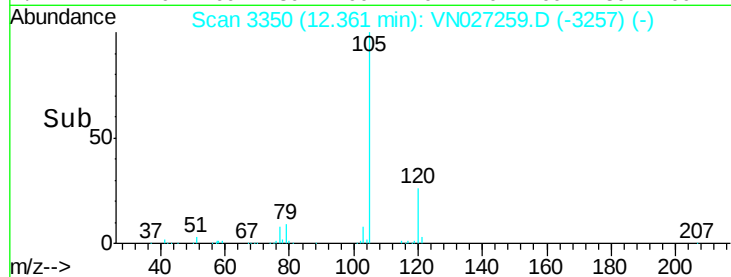
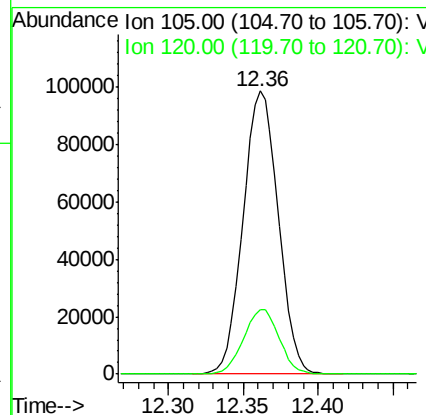
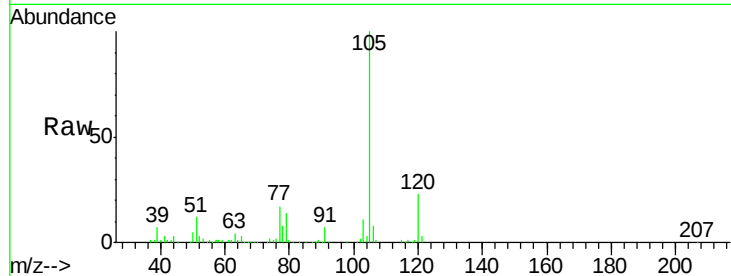
120 23.0 12.4 37.2

Manual Integrations

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#79

n-propylbenzene

Concen: 6.56 ug/l

RT: 12.71 min Scan# 3457

Delta R.T. 0.00 min

Lab File: VN027259.D

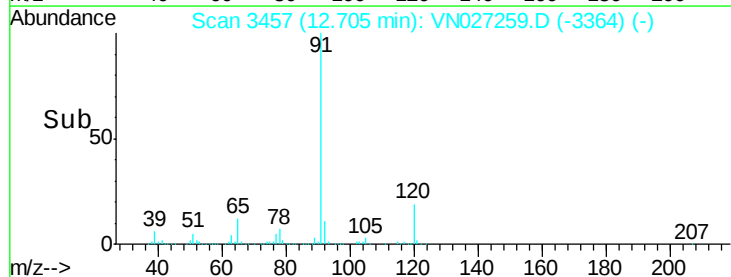
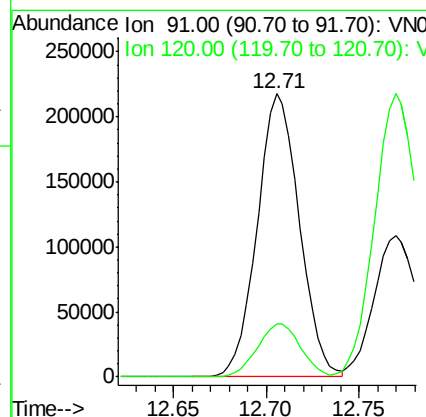
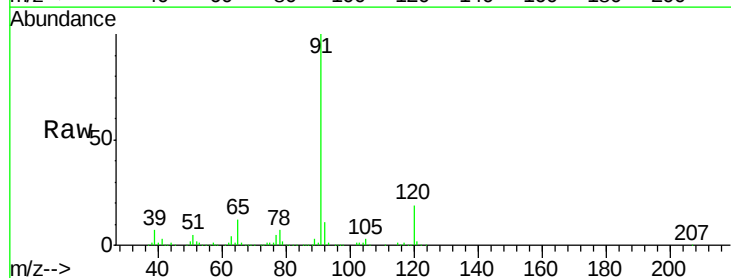
Acq: 17 Sep 2015 17:03

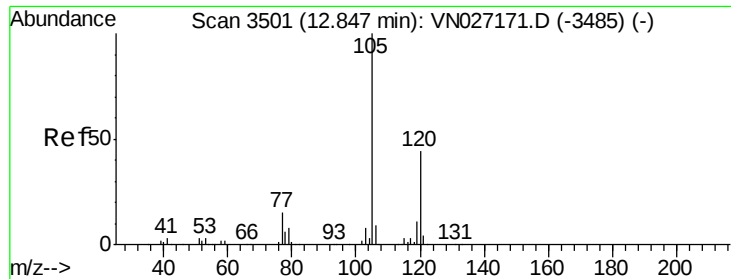
Tgt Ion: 91 Resp: 343028

Ion Ratio Lower Upper

91 100

120 19.3 10.3 30.8





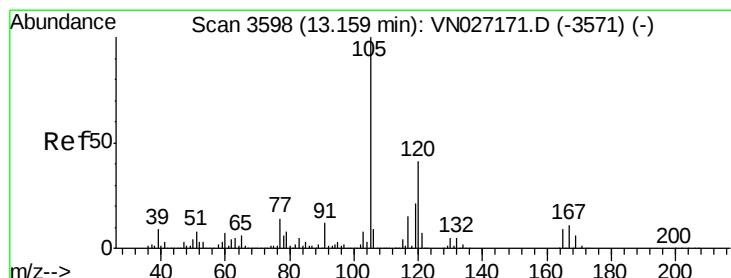
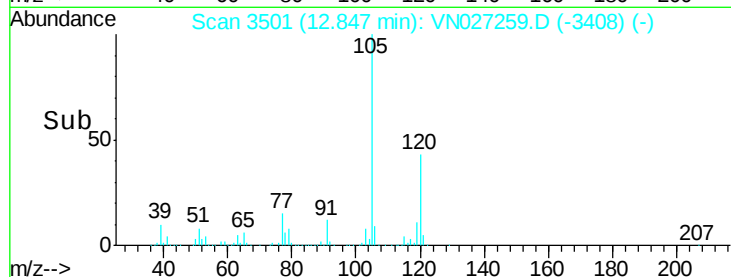
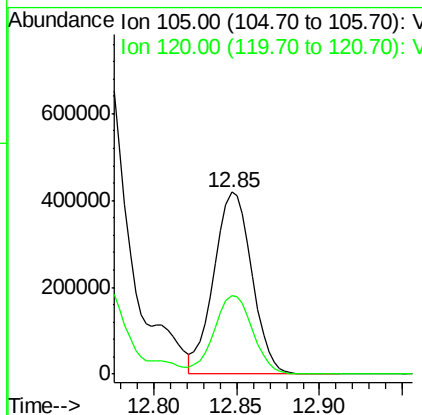
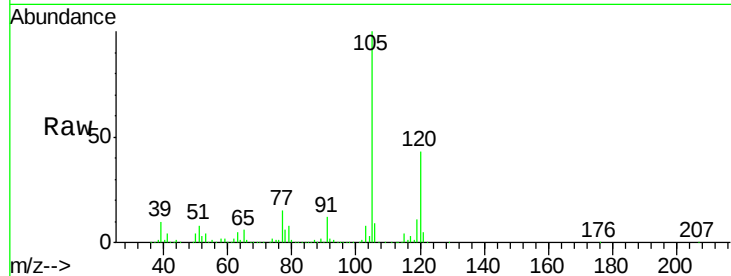
#81
 1,3,5-Trimethylbenzene
 Concen: 18.68 ug/l
 RT: 12.85 min Scan# 3501
 Delta R.T. 0.00 min
 Lab File: VN027259.D
 Acq: 17 Sep 2015 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-9-15-15

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.1	23.4	70.0

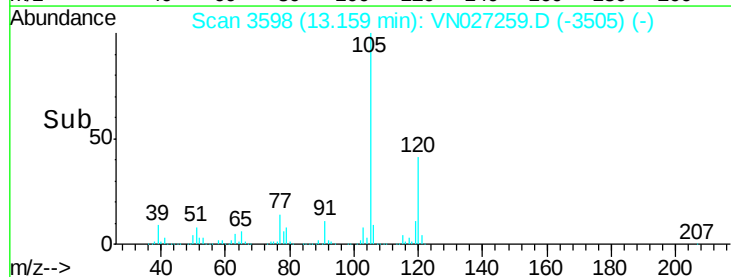
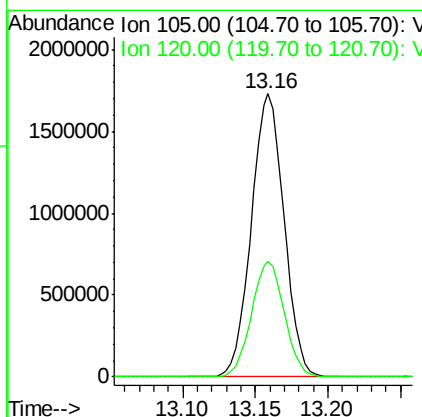
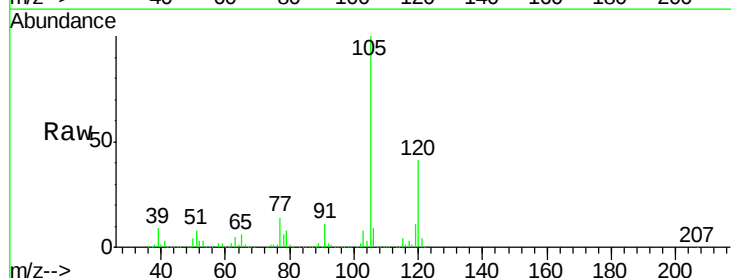
Manual Integrations
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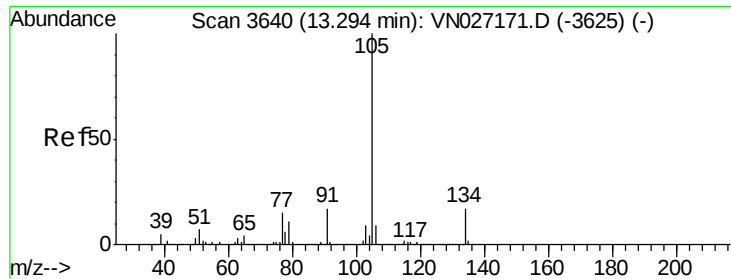
MMDadoda
 9/18/2015 12:23:17 PM



#85
 1,2,4-Trimethylbenzene
 Concen: 75.64 ug/l
 RT: 13.16 min Scan# 3598
 Delta R.T. 0.00 min
 Lab File: VN027259.D
 Acq: 17 Sep 2015 17:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.0	21.9	65.5





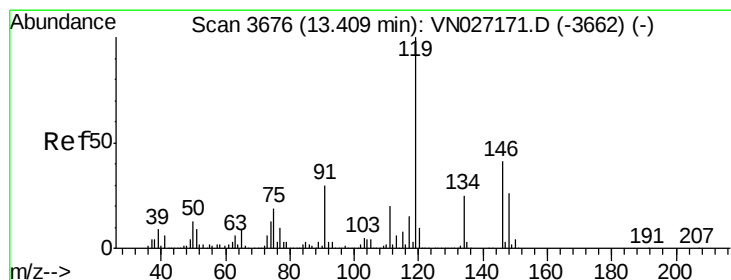
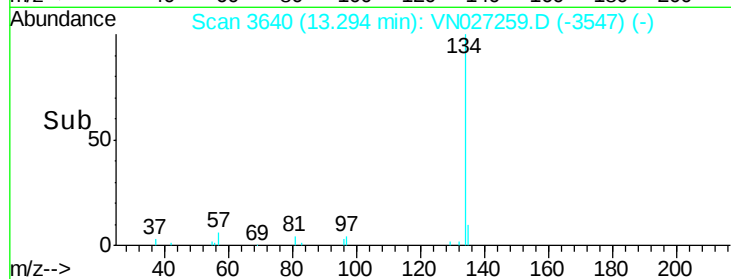
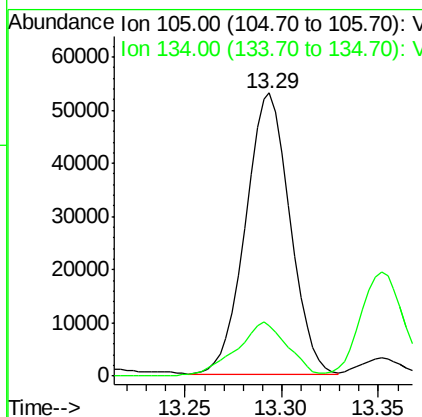
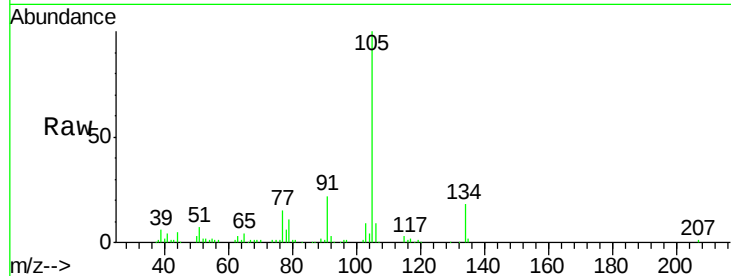
#86
 sec-Butylbenzene
 Concen: 1.95 ug/l
 RT: 13.29 min Scan# 3640
 Delta R.T. 0.00 min
 Lab File: VN027259.D
 Acq: 17 Sep 2015 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-9-15-15

Tot Ion	Ratio	Lower	Upper
105	100		
134	22.2	8.8	26.4

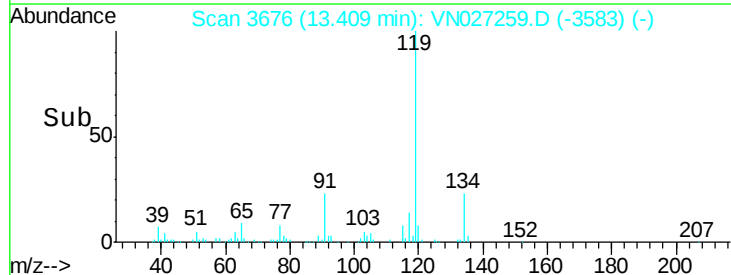
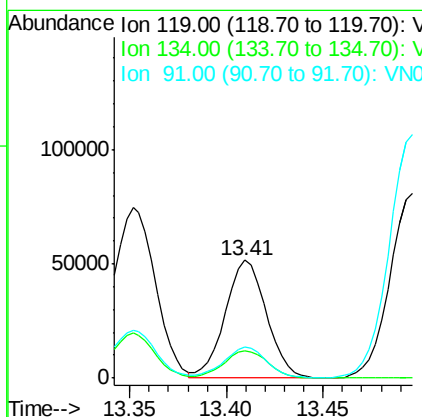
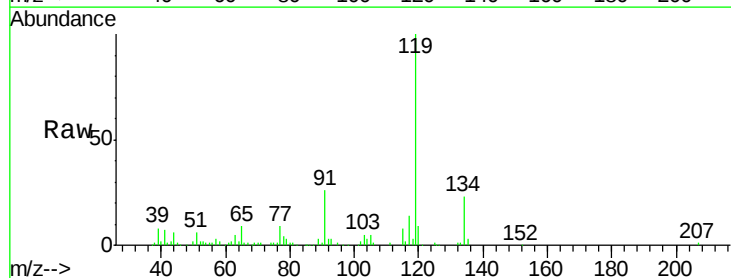
Manual Integrations
 APPROVED

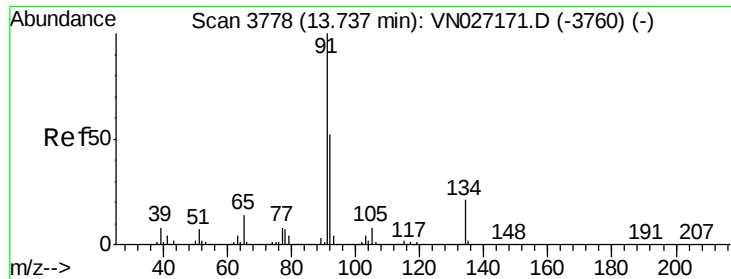
MMDadoda
 9/18/2015 12:23:17 PM



#87
 p-Isopropyltoluene
 Concen: 2.30 ug/l
 RT: 13.41 min Scan# 3676
 Delta R.T. 0.00 min
 Lab File: VN027259.D
 Acq: 17 Sep 2015 17:03

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.8	12.4	37.0
91	26.8	12.0	36.1





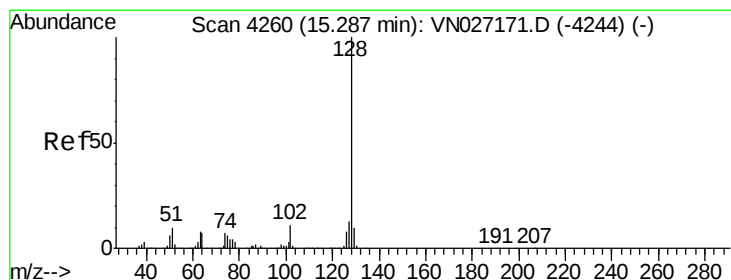
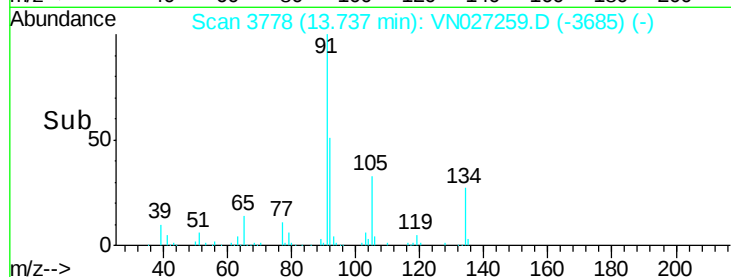
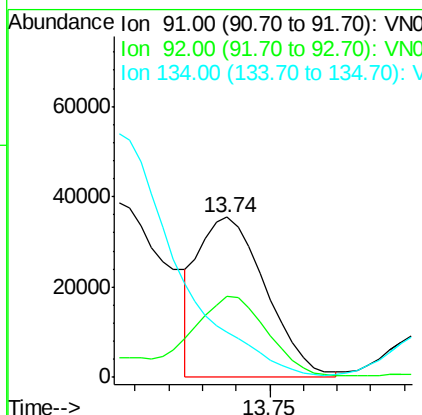
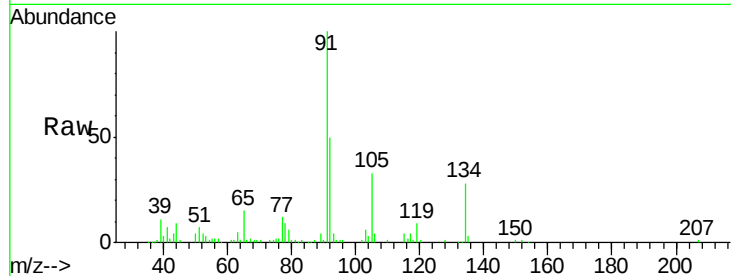
#90
n-Butylbenzene
Concen: 1.54 ug/l m
RT: 13.74 min Scan# 3778
Delta R.T. 0.00 min
Lab File: VN027259.D
Acq: 17 Sep 2015 17:03

Instrument :
MSVOA_N
ClientSampleId :
MW-4-9-15-15

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.1	78.2
134	56.4	11.1	33.1#

Manual Integrations
APPROVED

MMDadoda
9/18/2015 12:23:17 PM



#96
Naphthalene
Concen: 16.63 ug/l
RT: 15.29 min Scan# 4260
Delta R.T. 0.00 min
Lab File: VN027259.D
Acq: 17 Sep 2015 17:03

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.5	8.6	12.8

