

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN092115\
 Data File : VN027358.D
 Acq On : 22 Sep 2015 4:48
 Operator : MD\FY
 Sample : G3754-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2B

Manual Integrations
 APPROVED

MMDadoda
 9/22/2015 2:29:12 PM

Quant Time: Sep 22 08:03:49 2015
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N092115W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 21 13:12:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.75	168	695428	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1259149	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	1078288	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	438963	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) 1,2-Dichloroethane-d4	8.12	65	702317	51.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.18%	
36) Dibromofluoromethane	7.68	113	446554	54.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.70%	
51) Toluene-d8	10.19	98	1854906	58.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.80%	
63) 4-Bromofluorobenzene	12.52	95	660058	57.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
17) Acetone	3.83	43	129380	34.93	ug/l	95
18) Carbon Disulfide	4.11	76	10450	0.44	ug/l #	93
26) 2-Butanone	6.95	43	19346	3.99	ug/l	96
32) Cyclohexane	7.76	56	129834	6.08	ug/l #	83
40) Methylcyclohexane	9.19	83	178665	11.08	ug/l	99
41) Benzene	8.14	78	20436216	518.90	ug/l	99
53) Toluene	10.26	92	14802286	635.38	ug/l #	1
68) Ethyl Benzene	11.61	91	16762680m	384.38	ug/l	
69) m/p-Xylenes	11.72	106	8249842	545.69	ug/l #	1
70) o-Xylene	12.06	106	2703803	176.99	ug/l	89
71) Styrene	12.07	104	1200855	49.38	ug/l #	63
74) Isopropylbenzene	12.36	105	904483	20.57	ug/l	99
79) n-propylbenzene	12.71	91	681299	12.99	ug/l	98
81) 1,3,5-Trimethylbenzene	12.85	105	1733666	48.77	ug/l	96
85) 1,2,4-Trimethylbenzene	13.16	105	3901042	110.35	ug/l	95
87) p-Isopropyltoluene	13.41	119	854204	26.68	ug/l	92
90) n-Butylbenzene	13.73	91	41320m	1.29	ug/l	
96) Naphthalene	15.27	128	25922741m	1023.42	ug/l	

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

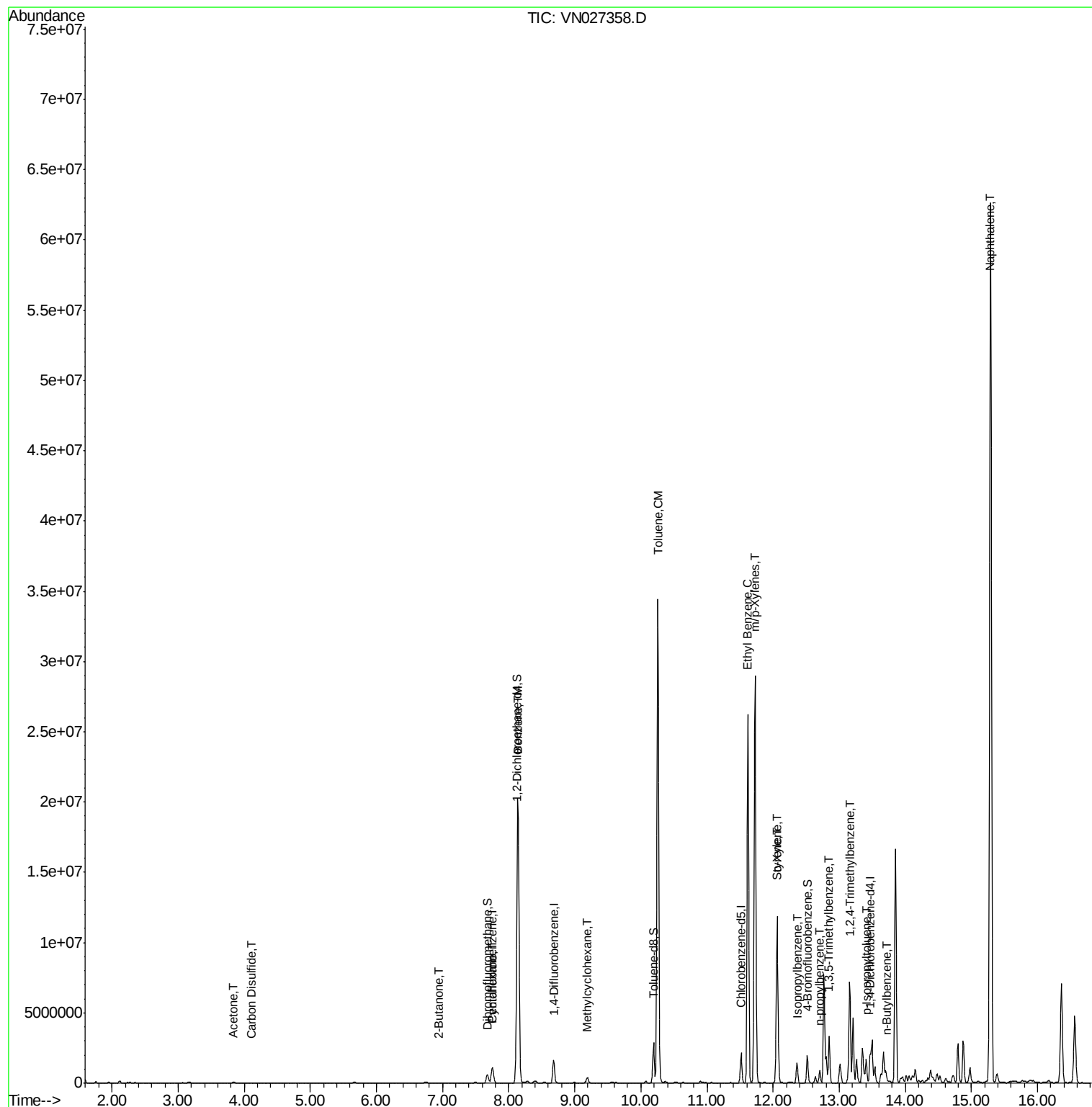
Data Path : W:\HPCHEM1\MSVOA N\DATA\VN092115\
Data File : VN027358.D
Acq On : 22 Sep 2015 4:48
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 35 Sample Multiplier: 1

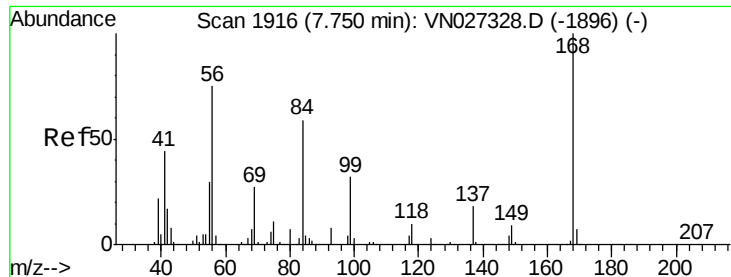
Instrument :
MSVOA_N
ClientSampleId :
MW-2B

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Quant Time: Sep 22 08:03:49 2015
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N092115W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 21 13:12:32 2015
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VN027358.D

Acq: 22 Sep 2015 4:48

Instrument :

MSVOA_N

ClientSampleId :

MW-2B

Tot Ion:168 Resp: 695428

Ion Ratio Lower Upper

168 100

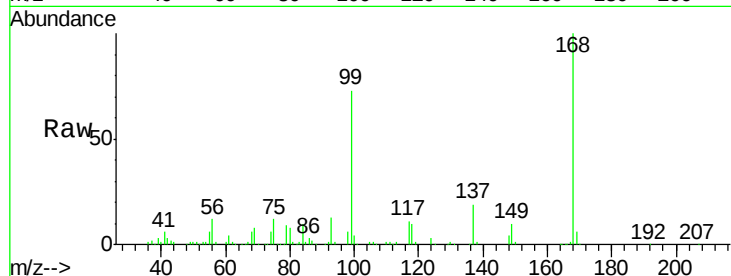
99 72.8 50.4 75.6

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.75

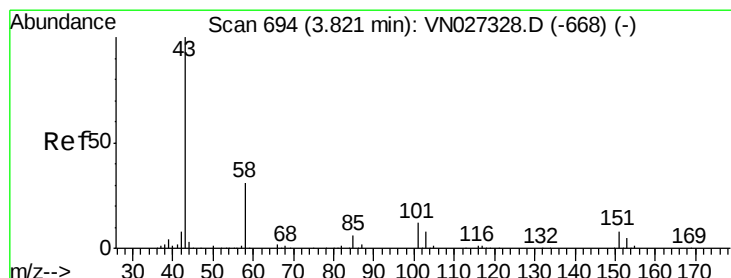
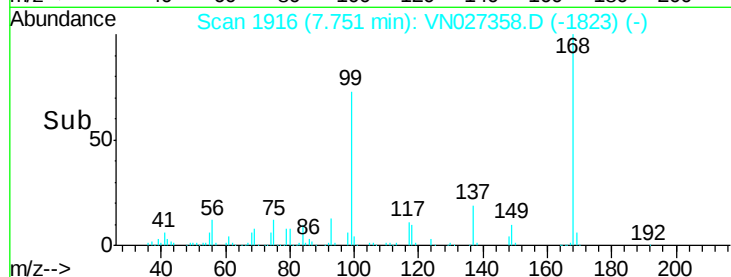
300000

200000

100000

0

Time-->



#17

Acetone

Concen: 34.93 ug/l

RT: 3.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VN027358.D

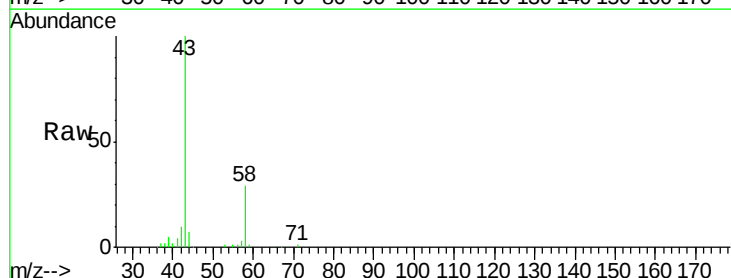
Acq: 22 Sep 2015 4:48

Tgt Ion: 43 Resp: 129380

Ion Ratio Lower Upper

43 100

58 28.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.83

50000

40000

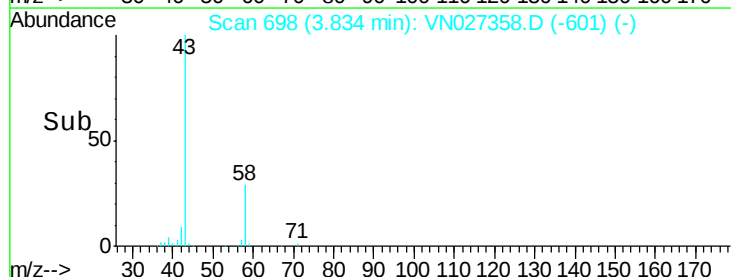
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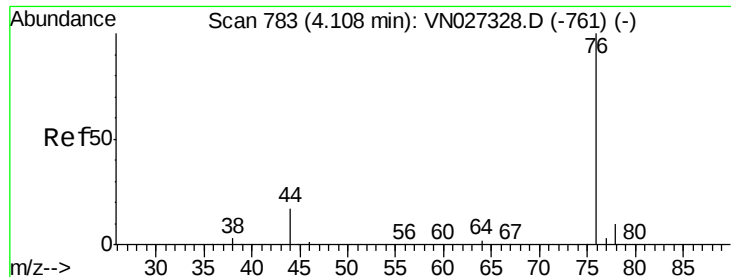
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Time-->





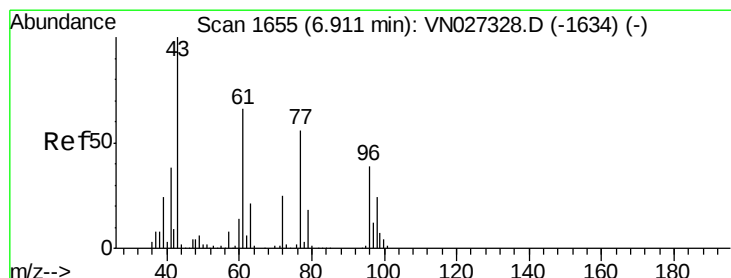
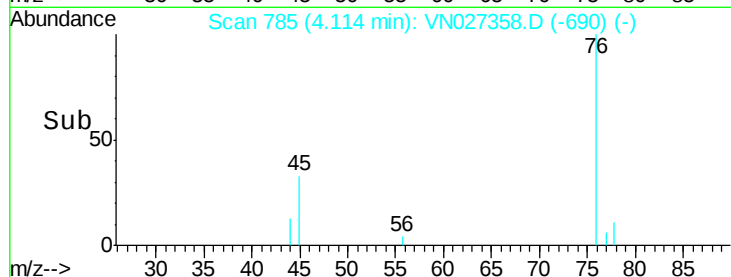
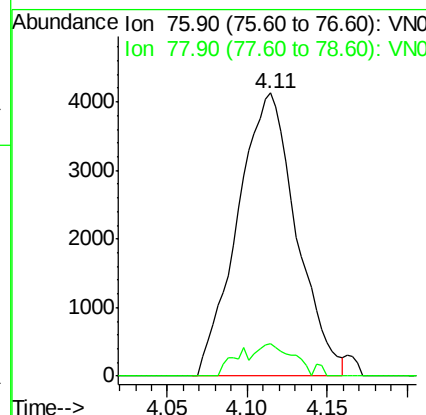
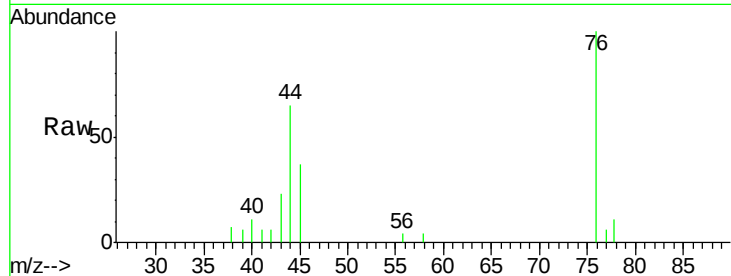
#18
Carbon Disulfide
Concen: 0.44 ug/l
RT: 4.11 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Instrument :
MSVOA_N
ClientSampleId :
MW-2B

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.4	7.1	10.7#

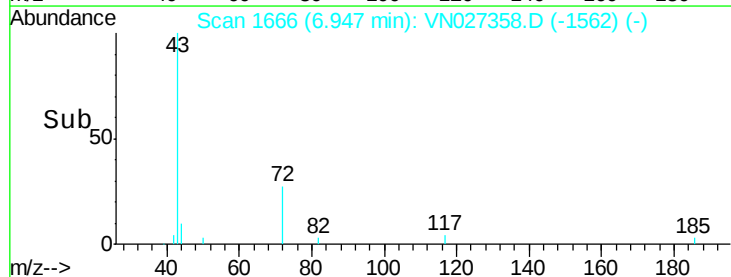
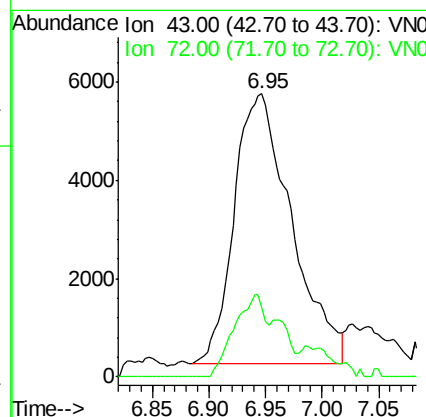
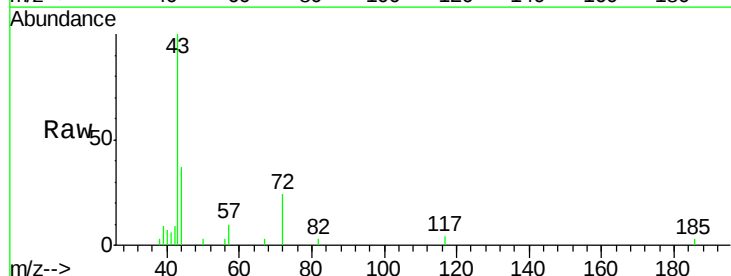
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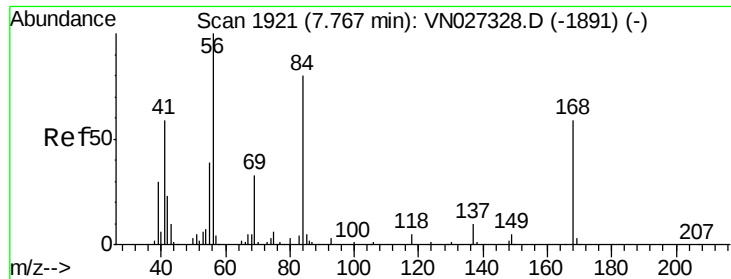
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#26
2-Butanone
Concen: 3.99 ug/l
RT: 6.95 min Scan# 1666
Delta R.T. 0.04 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.6	18.8	28.2





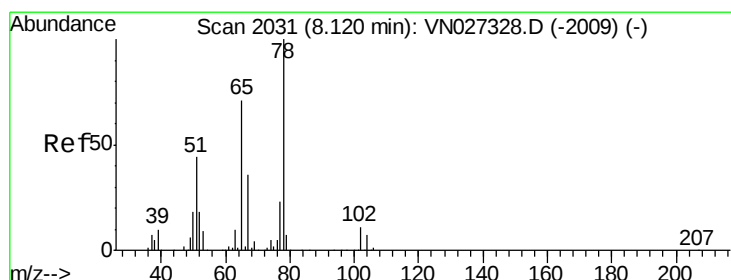
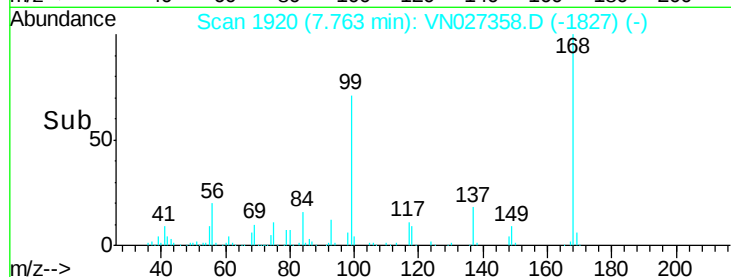
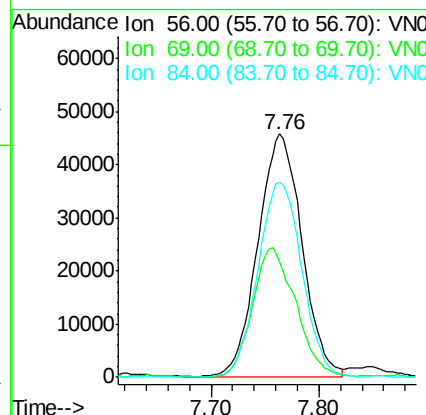
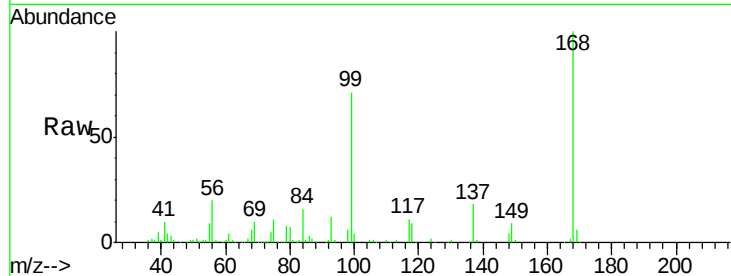
#32
Cyclohexane
Concen: 6.08 ug/l
RT: 7.76 min Scan# 1920
Delta R.T. -0.00 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Instrument :
MSVOA_N
ClientSampled :
MW-2B

Tot Ion	Ratio	Resp	Lower	Upper
56	100	129834		
69	47.3	23.0	34.4#	
84	80.3	57.8	86.8	

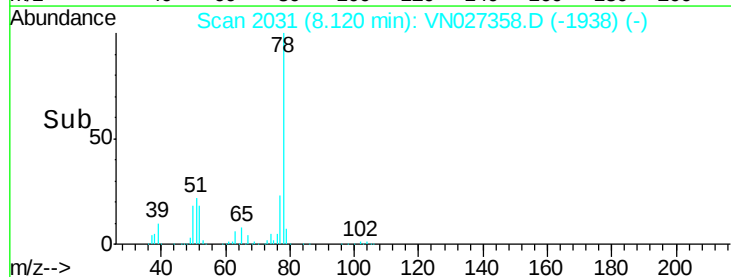
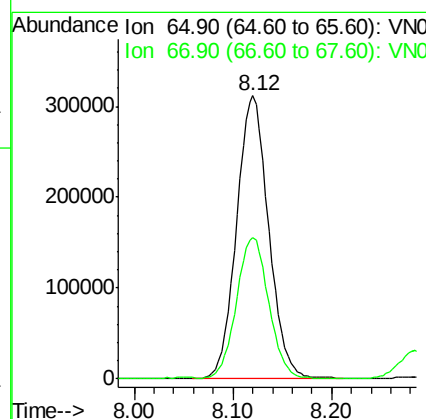
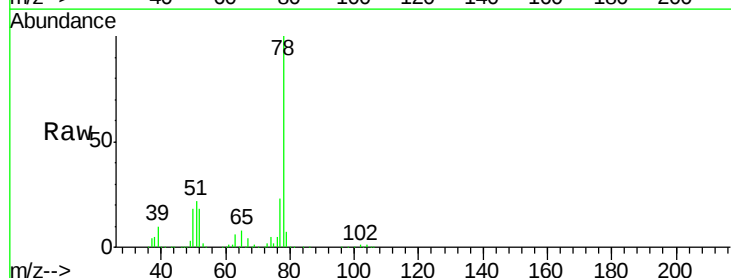
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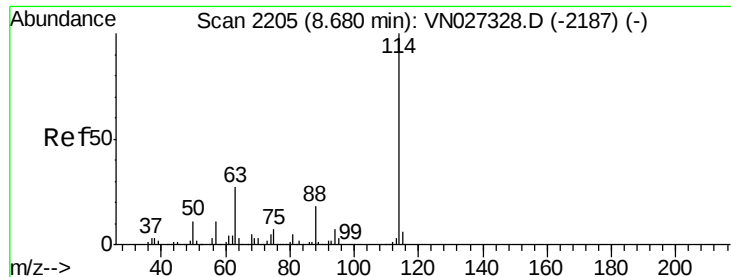
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#34
1,2-Dichloroethane-d4
Concen: 51.59 ug/l
RT: 8.12 min Scan# 2031
Delta R.T. 0.00 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	702317		
67	49.8	0.0	110.6	





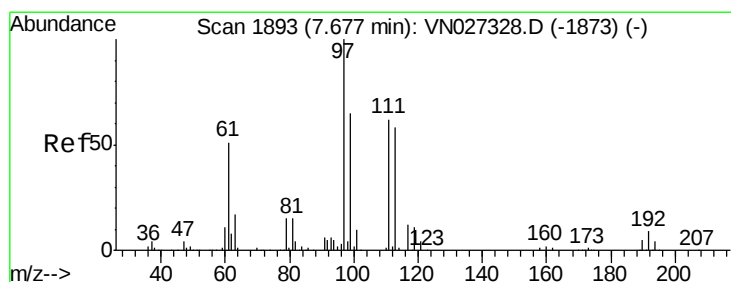
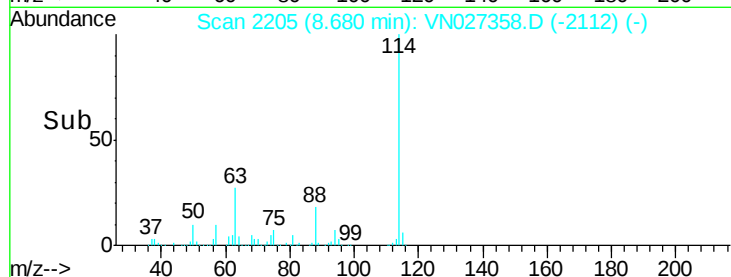
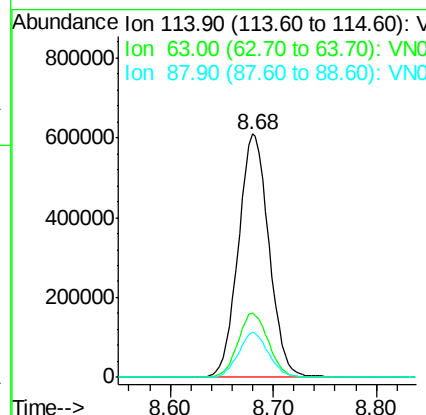
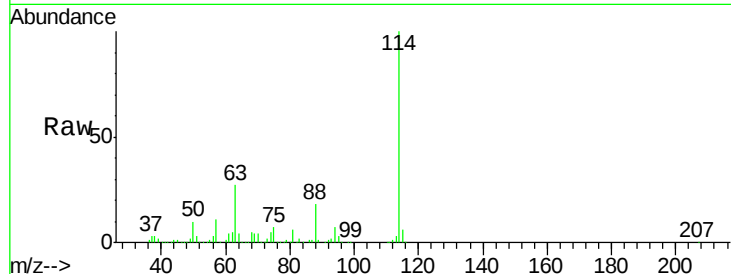
#35
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.68 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VN027358.D
 Acq: 22 Sep 2015 4:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2B

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	0.0	48.8
88	18.3	0.0	32.2

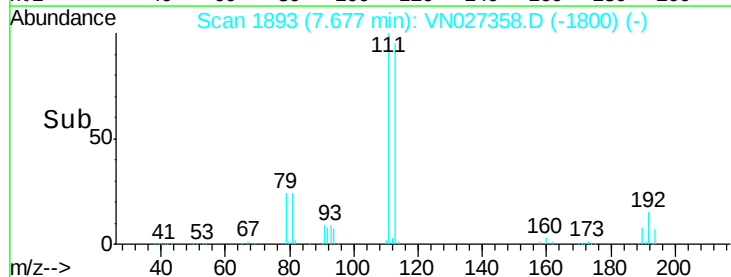
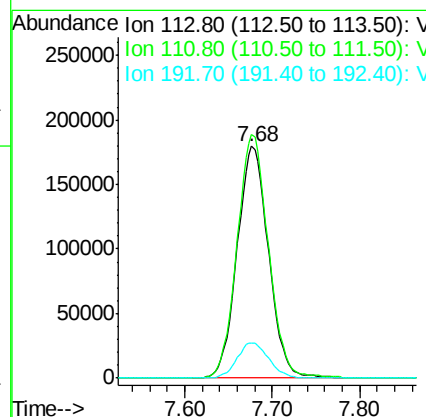
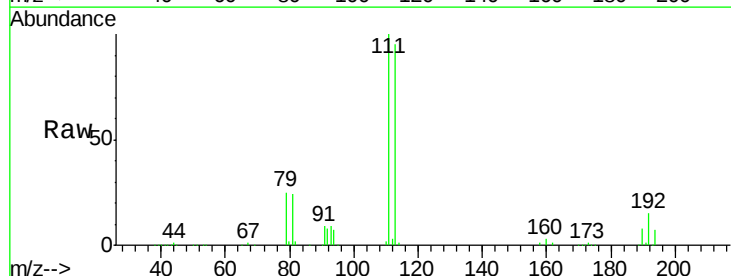
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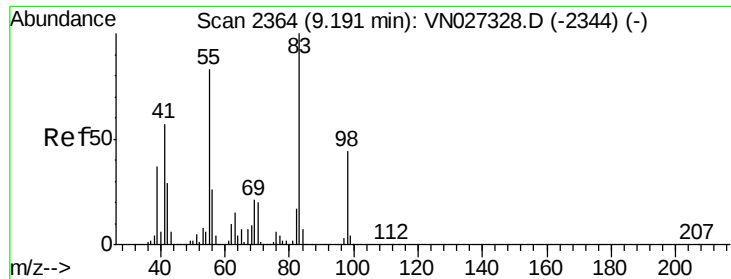
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#36
 Dibromofluoromethane
 Concen: 54.35 ug/l
 RT: 7.68 min Scan# 1893
 Delta R.T. 0.00 min
 Lab File: VN027358.D
 Acq: 22 Sep 2015 4:48

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.3	83.0	124.4
192	15.4	14.1	21.1





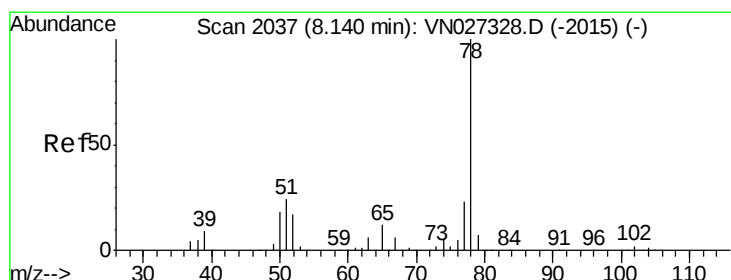
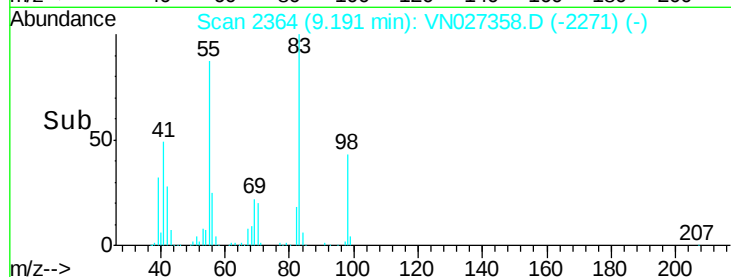
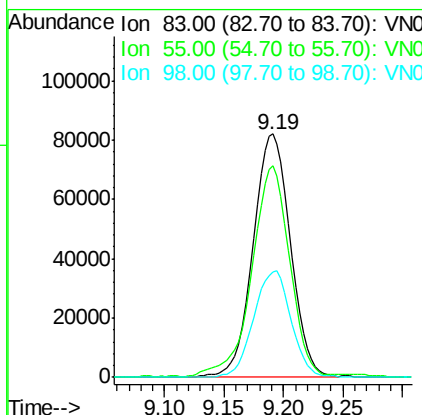
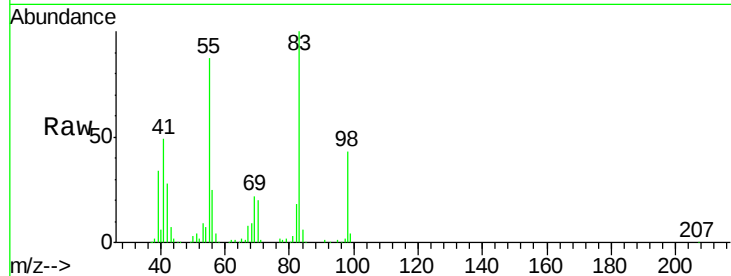
#40
Methvlcvclohexane
Concen: 11.08 ug/l
RT: 9.19 min Scan# 2364
Delta R.T. 0.00 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Instrument :
MSVOA_N
ClientSampled :
MW-2B

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.2	69.8	104.8
98	43.4	34.3	51.5

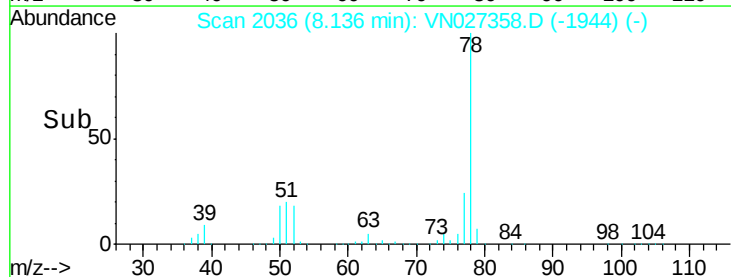
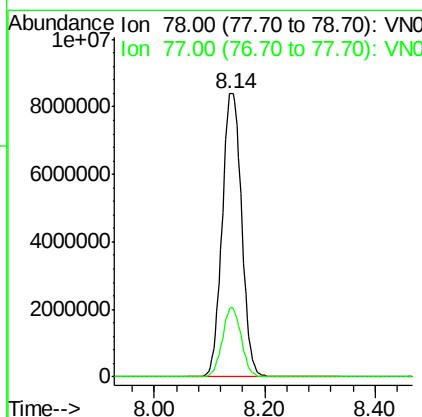
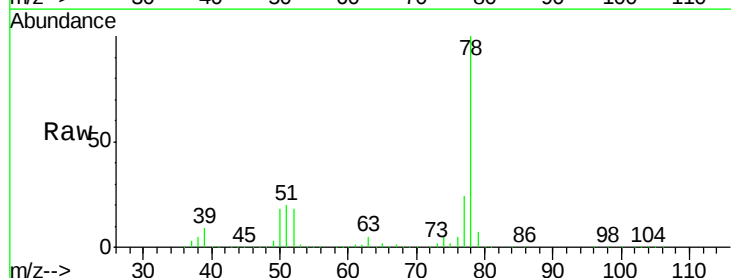
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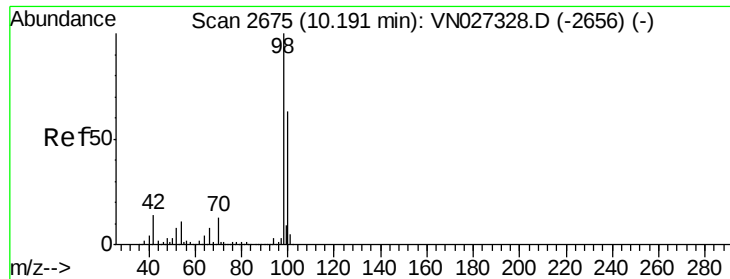
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#41
Benzene
Concen: 518.90 ug/l
RT: 8.14 min Scan# 2036
Delta R.T. -0.00 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4





#51

Toluene-d8

Concen: 58.40 ug/l

RT: 10.19 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN027358.D

Acq: 22 Sep 2015 4:48

Instrument :

MSVOA_N

ClientSampleId :

MW-2B

Tot Ion: 98 Resp: 1854906

Ion Ratio Lower Upper

98 100

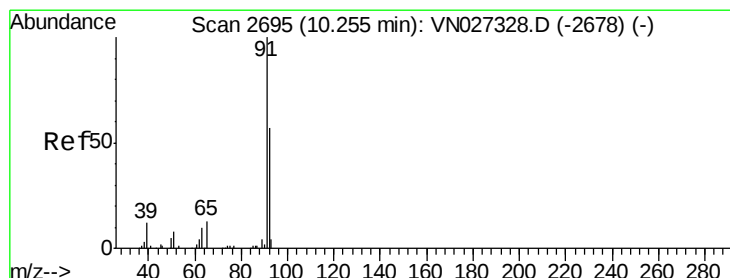
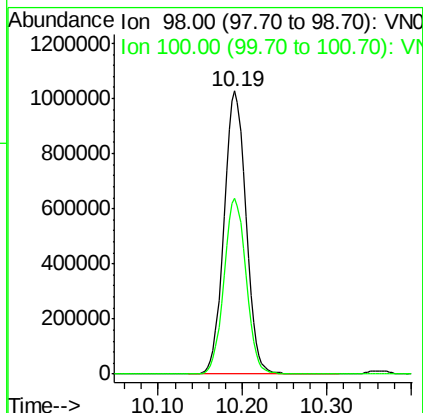
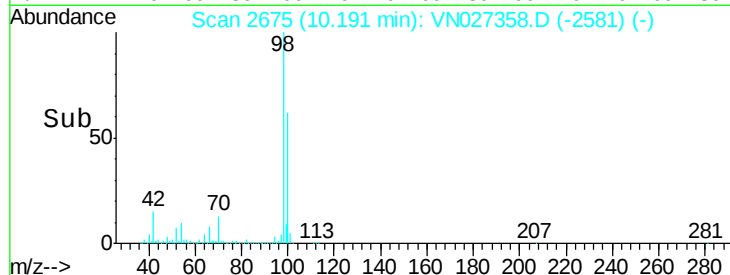
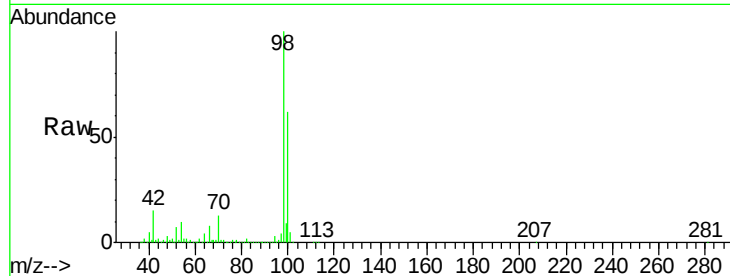
100 62.6 50.5 75.7

Manual Integrations

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#53

Toluene

Concen: 635.38 ug/l

RT: 10.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VN027358.D

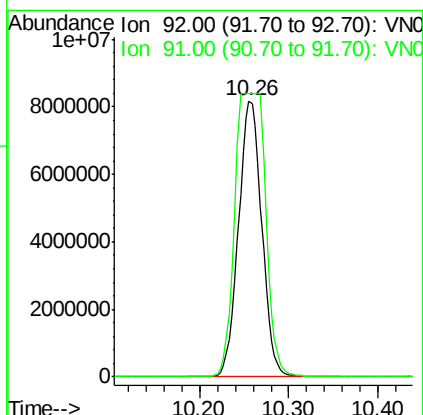
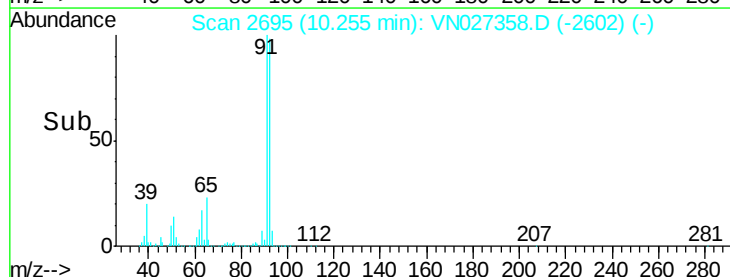
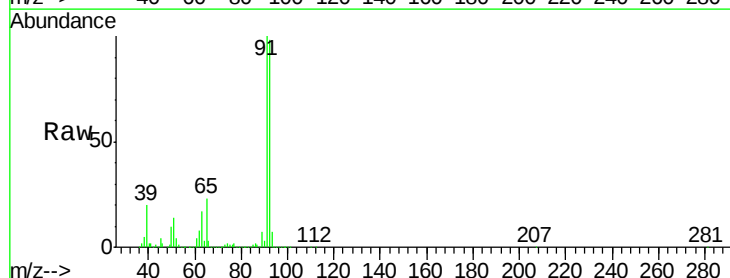
Acq: 22 Sep 2015 4:48

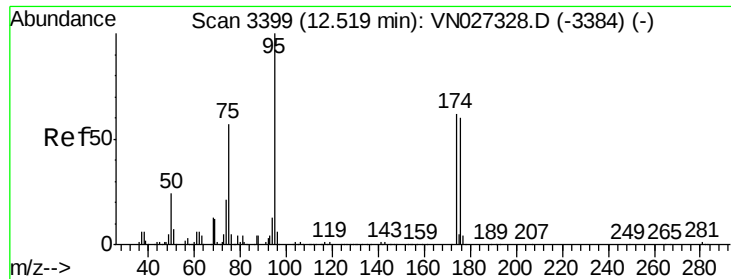
Tgt Ion: 92 Resp: 14802286

Ion Ratio Lower Upper

92 100

91 0.0 141.4 212.2#





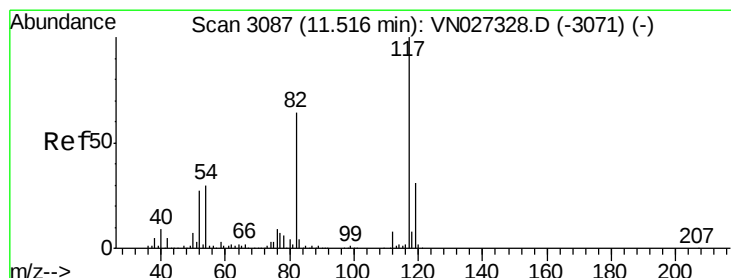
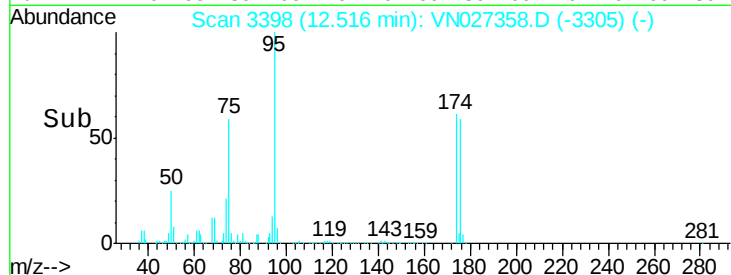
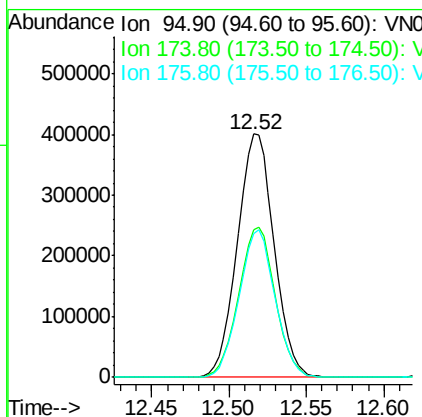
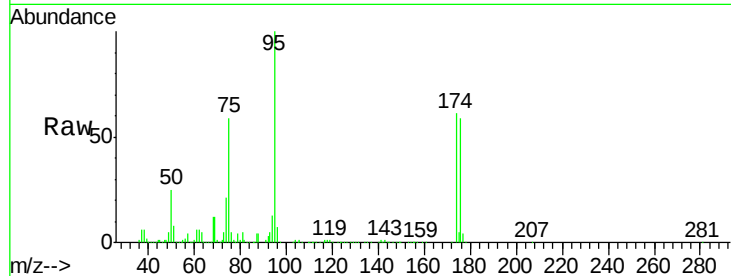
#63
4-Bromofluorobenzene
Concen: 57.20 ug/l
RT: 12.52 min Scan# 3398
Delta R.T. -0.00 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Instrument :
MSVOA_N
ClientSampled :
MW-2B

Tot Ion	Ratio	Resp	Lower	Upper
95	100	660058		
174	61.6	0.0	137.0	
176	59.4	0.0	130.8	

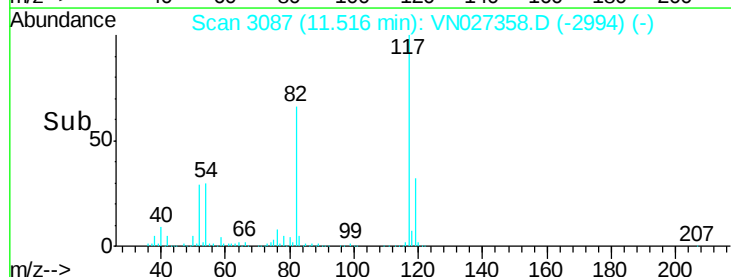
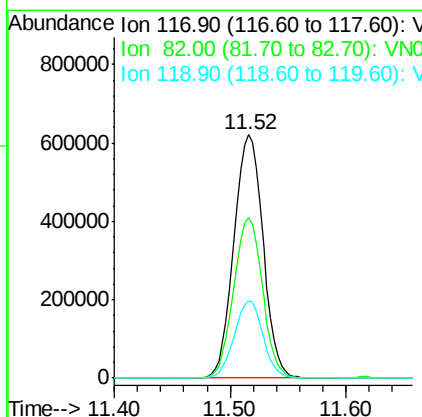
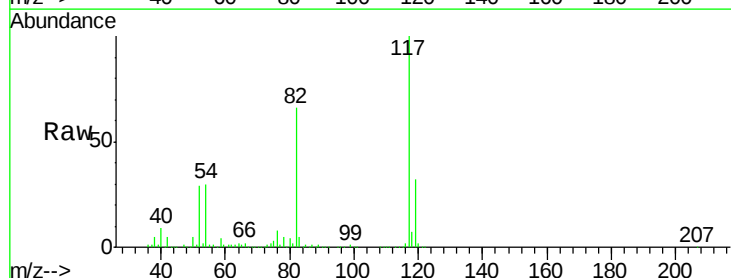
Manual Integrations
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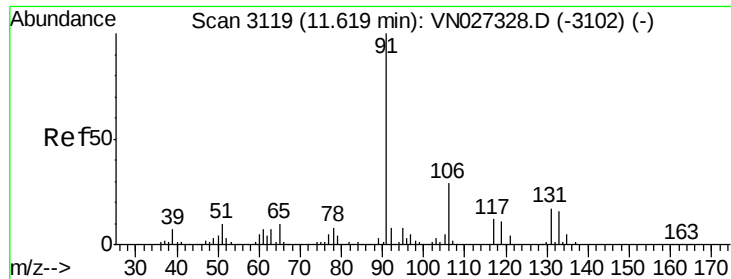
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#64
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.52 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1078288		
82	65.9	49.6	74.4	
119	32.0	24.6	36.8	





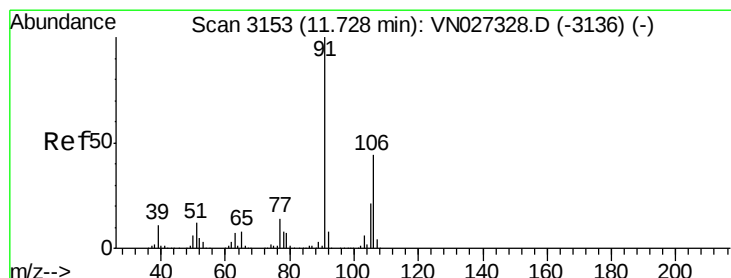
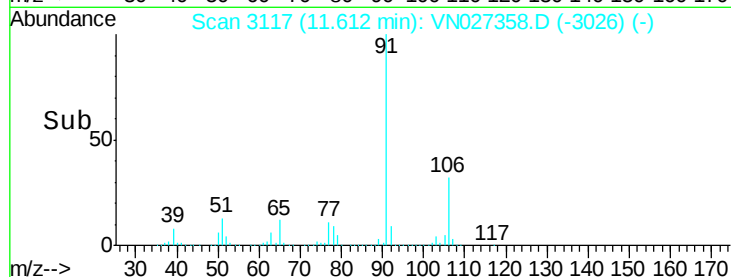
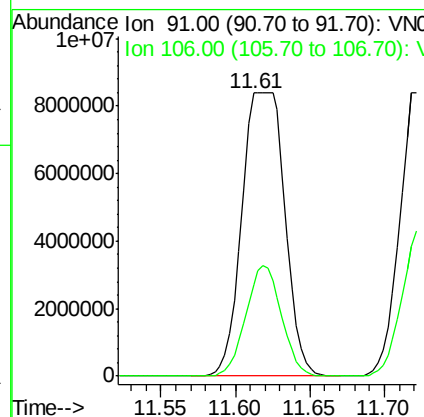
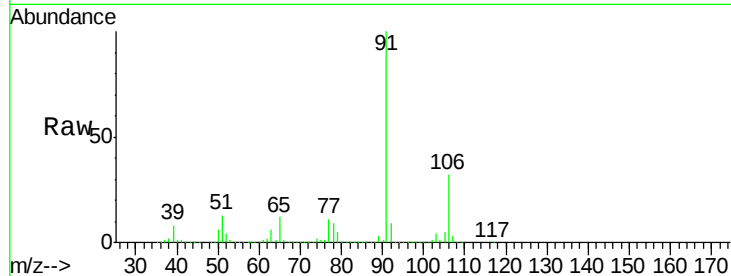
#68
Ethyl Benzene
Concen: 384.38 ug/l m
RT: 11.61 min Scan# 3117
Delta R.T. -0.01 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Instrument :
MSVOA_N
ClientSampleId :
MW-2B

Tot Ion: 91 Resp:16762680
Ion Ratio Lower Upper
91 100
106 32.3 23.1 34.7

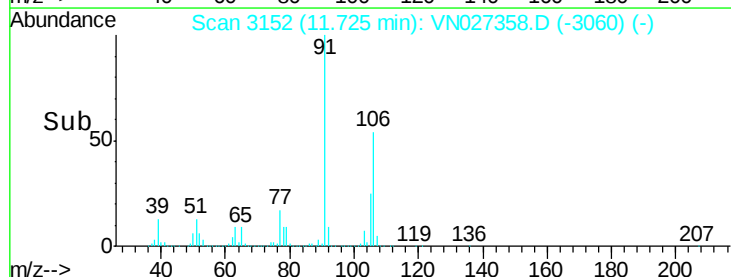
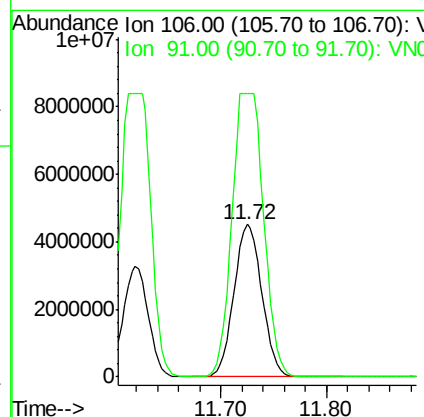
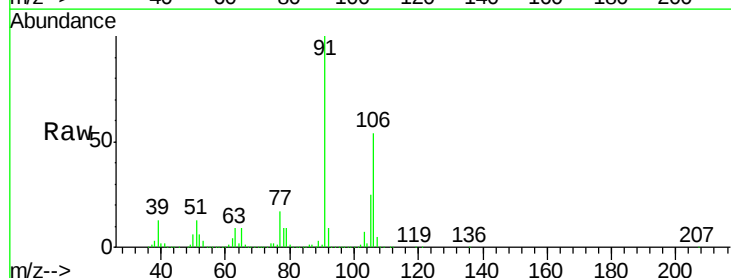
Manual Integrations
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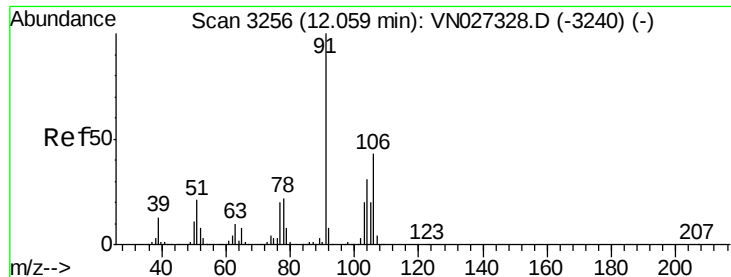
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#69
m/p-Xylenes
Concen: 545.69 ug/l
RT: 11.72 min Scan# 3152
Delta R.T. -0.00 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Tgt Ion:106 Resp: 8249842
Ion Ratio Lower Upper
106 100
91 0.0 167.1 250.7#





#70

o-Xylene

Concen: 176.99 ug/l

RT: 12.06 min Scan# 3255

Delta R.T. -0.00 min

Lab File: VN027358.D

Acq: 22 Sep 2015 4:48

Instrument :

MSVOA_N

ClientSampled :

MW-2B

Tot Ion:106 Resp: 2703803

Ion Ratio Lower Upper

106 100

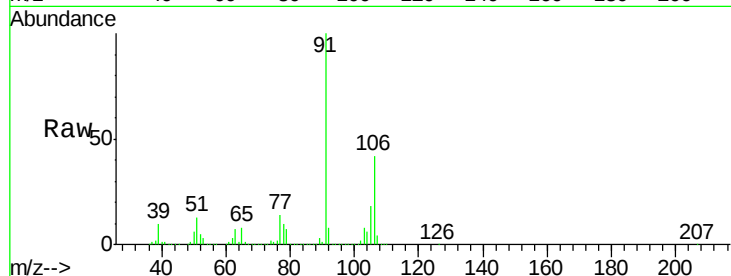
91 238.7 110.7 331.9

Manual Integrations

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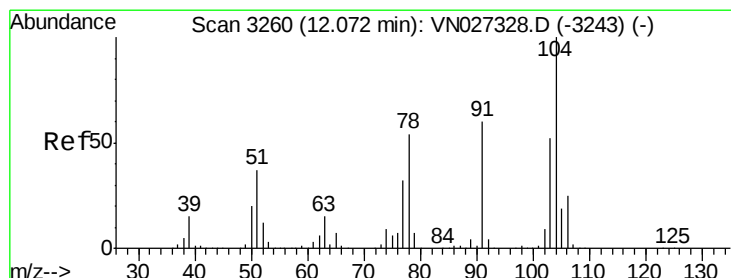
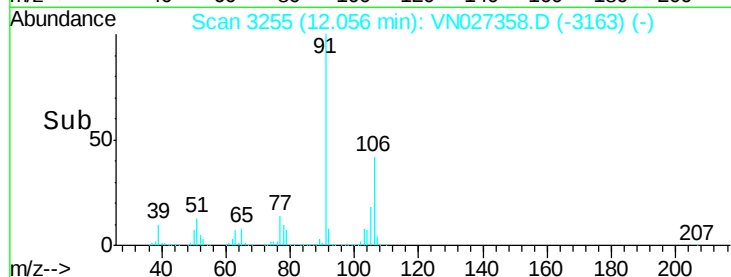
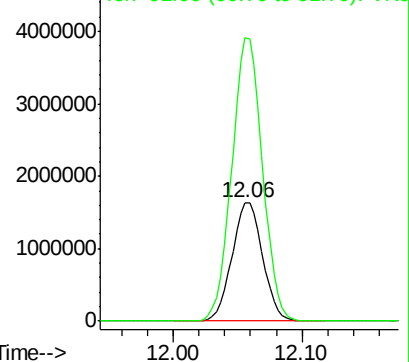
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#71

Styrene

Concen: 49.38 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN027358.D

Acq: 22 Sep 2015 4:48

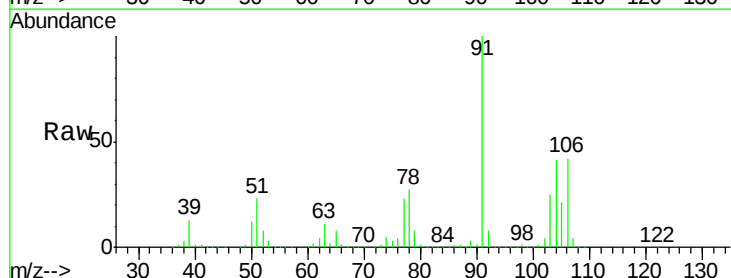
Tgt Ion:104 Resp: 1200855

Ion Ratio Lower Upper

104 100

78 85.6 41.6 62.4#

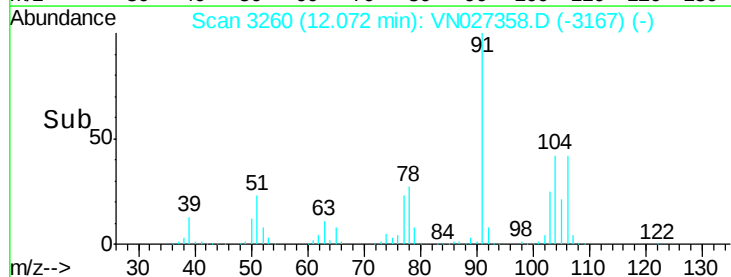
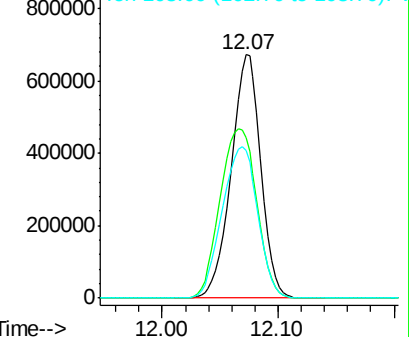
103 74.4 44.2 66.2#

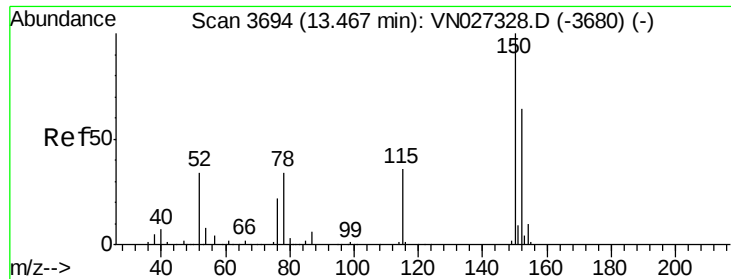


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#73

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.47 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN027358.D

Acq: 22 Sep 2015 4:48

Instrument :

MSVOA_N

ClientSampled :

MW-2B

Tot Ion:152 Resp: 438963

Ion Ratio Lower Upper

152 100

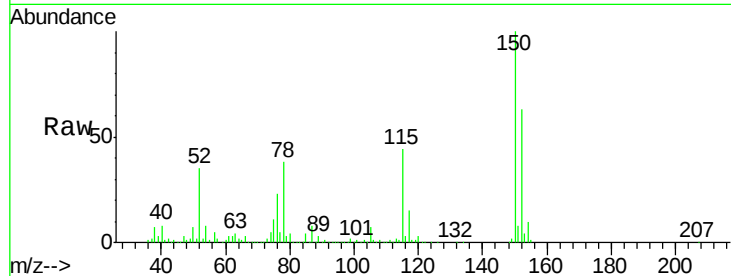
115 78.3 30.8 92.3

150 158.1 0.0 345.0

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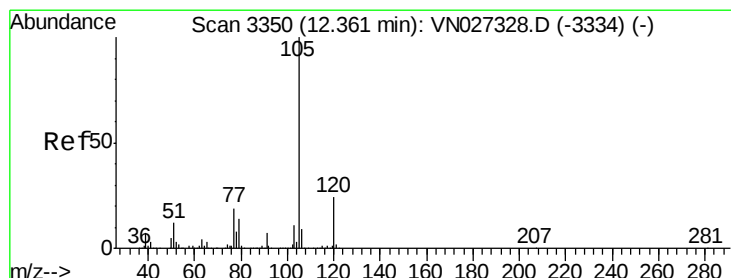
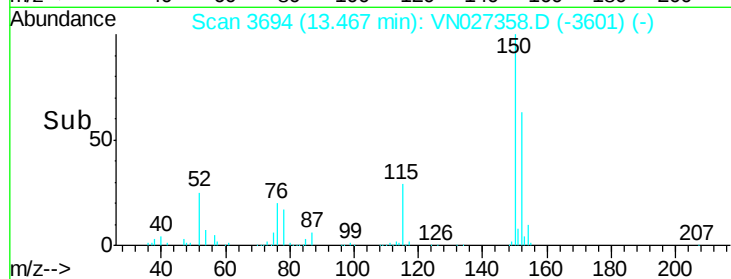
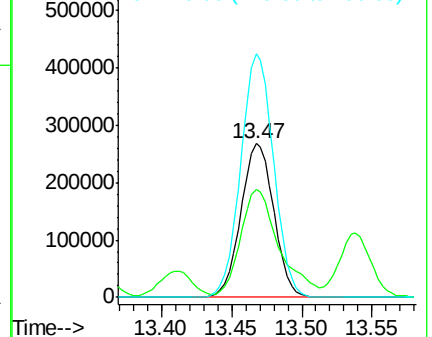
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

Isopropylbenzene

Concen: 20.57 ug/l

RT: 12.36 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VN027358.D

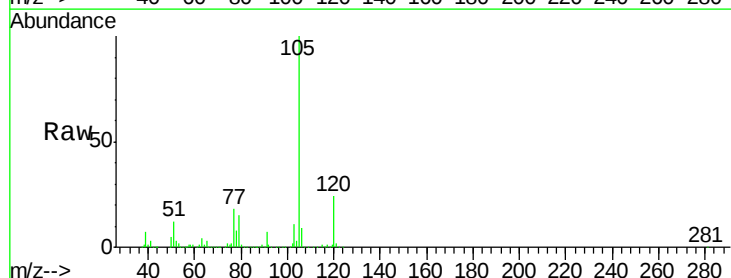
Acq: 22 Sep 2015 4:48

Tgt Ion:105 Resp: 904483

Ion Ratio Lower Upper

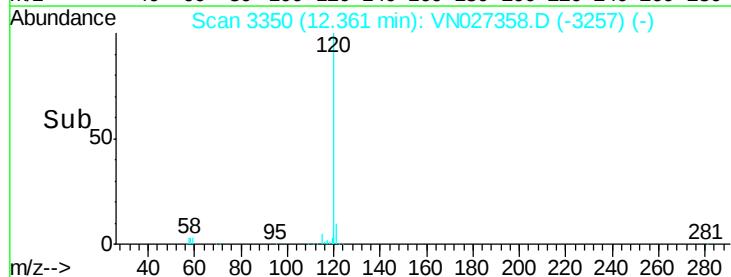
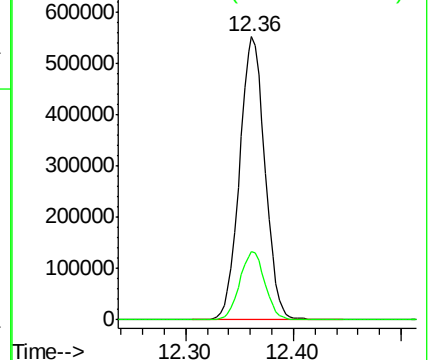
105 100

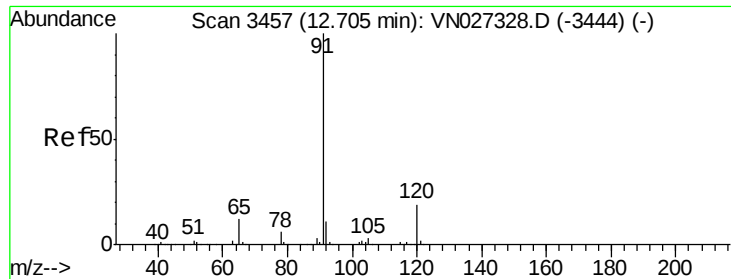
120 24.1 12.4 37.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#79

n-propylbenzene

Concen: 12.99 ug/l

RT: 12.71 min Scan# 3457

Delta R.T. 0.00 min

Lab File: VN027358.D

Acq: 22 Sep 2015 4:48

Instrument :

MSVOA_N

ClientSampled :

MW-2B

Tot Ion: 91 Resp: 681299

Ion Ratio Lower Upper

91 100

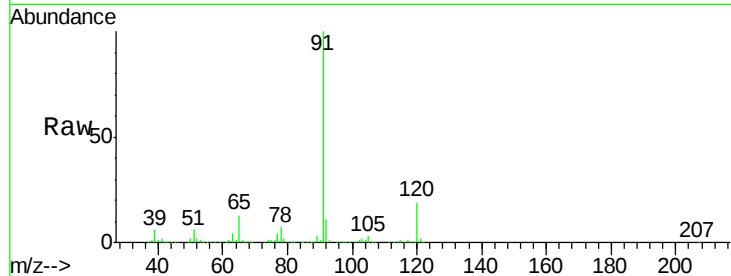
120 19.8 10.3 30.8

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN027328.D (-3444) (-)

Ion 120.00 (119.70 to 120.70): VN027328.D (-3444) (-)

800000

600000

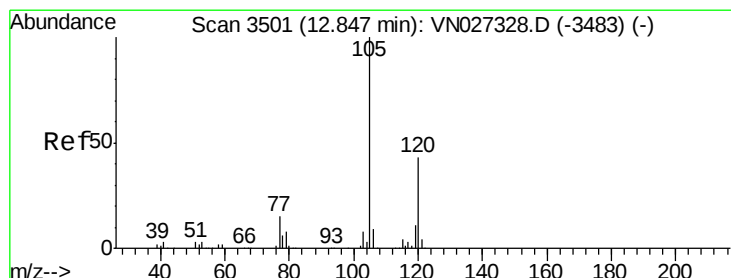
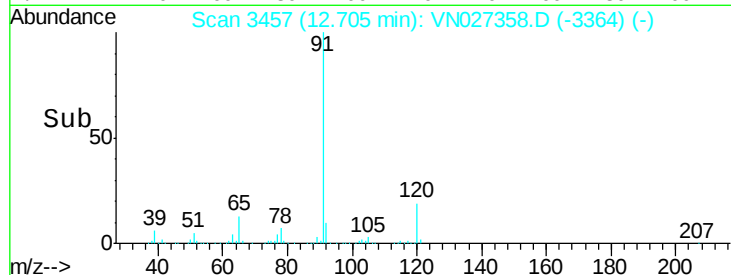
400000

200000

0

12.65 12.70 12.75

Time-->



#81

1,3,5-Trimethylbenzene

Concen: 48.77 ug/l

RT: 12.85 min Scan# 3501

Delta R.T. 0.00 min

Lab File: VN027358.D

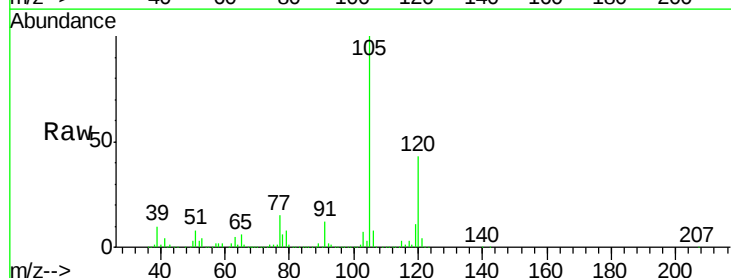
Acq: 22 Sep 2015 4:48

Tgt Ion:105 Resp: 1733666

Ion Ratio Lower Upper

105 100

120 44.1 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN027328.D (-3483) (-)

Ion 120.00 (119.70 to 120.70): VN027328.D (-3483) (-)

2500000

2000000

1500000

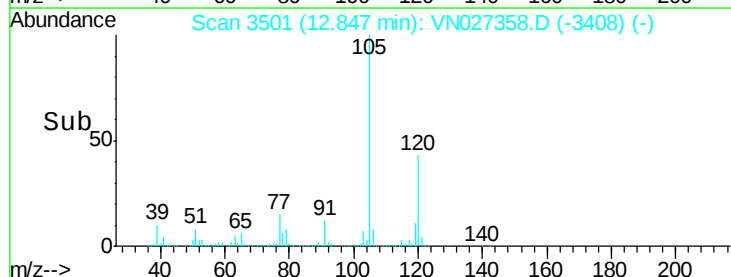
1000000

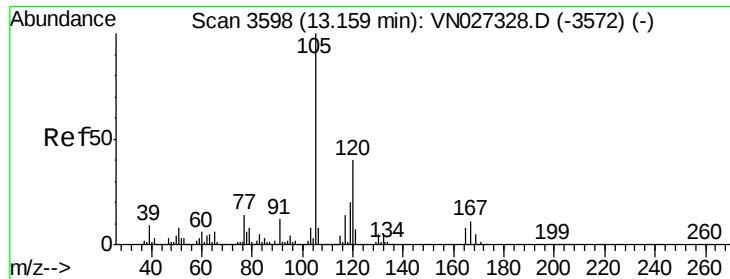
500000

0

12.80 12.85 12.90 12.95

Time-->





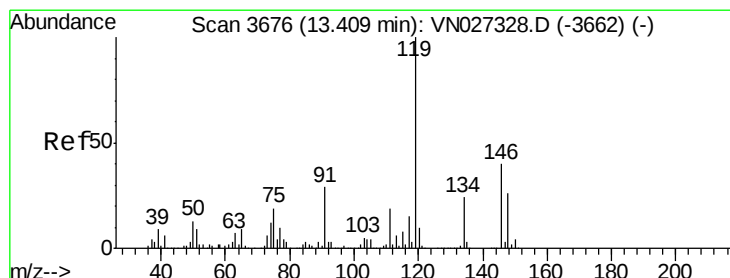
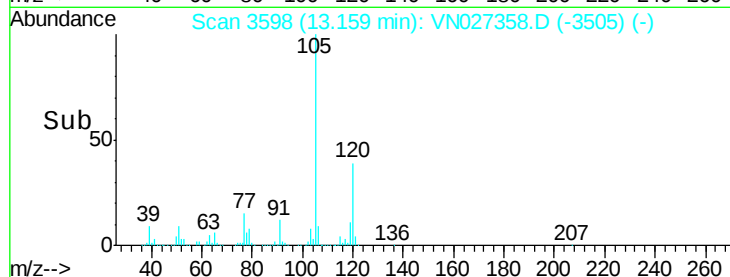
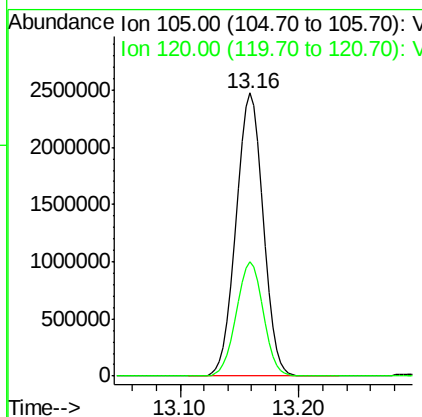
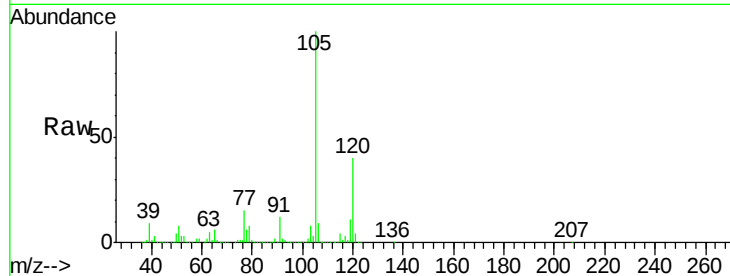
#85
 1,2,4-Trimethylbenzene
 Concen: 110.35 ug/l
 RT: 13.16 min Scan# 3598
 Delta R.T. 0.00 min
 Lab File: VN027358.D
 Acq: 22 Sep 2015 4:48

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2B

Tot Ion:105 Resp: 3901042
 Ion Ratio Lower Upper
 105 100
 120 40.3 21.9 65.5

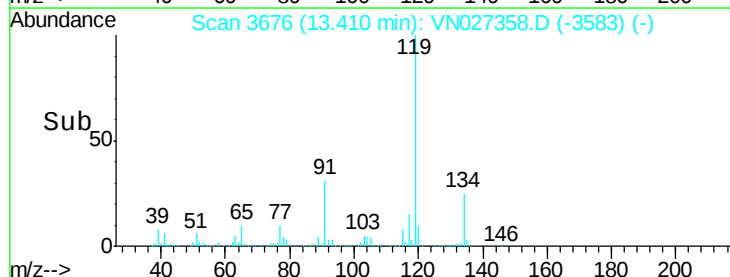
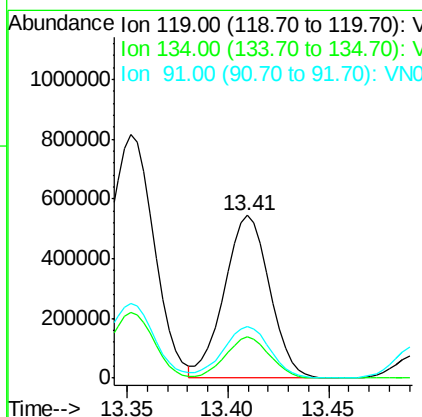
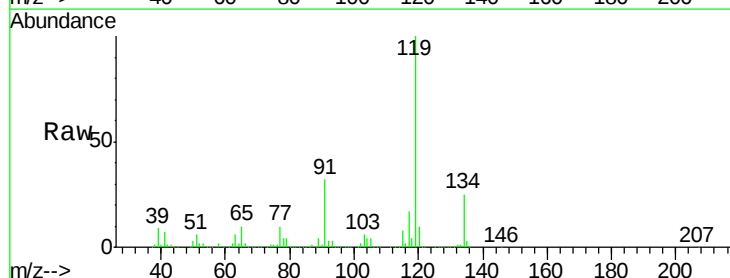
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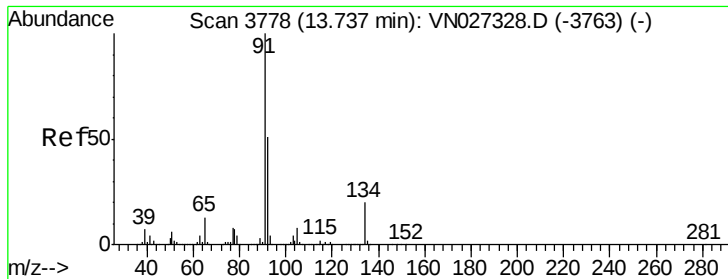
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#87
 p-Isopropyltoluene
 Concen: 26.68 ug/l
 RT: 13.41 min Scan# 3676
 Delta R.T. 0.00 min
 Lab File: VN027358.D
 Acq: 22 Sep 2015 4:48

Tgt Ion:119 Resp: 854204
 Ion Ratio Lower Upper
 119 100
 134 24.6 12.4 37.0
 91 32.4 12.0 36.1





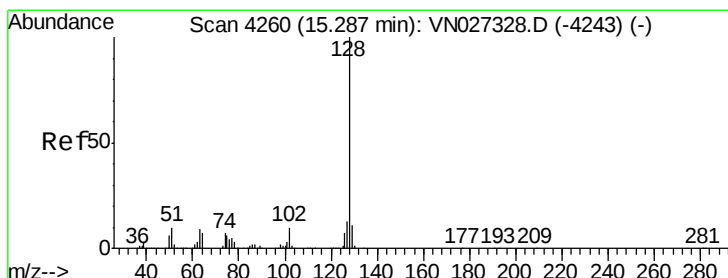
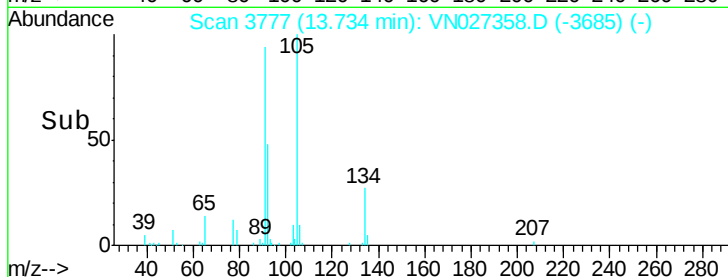
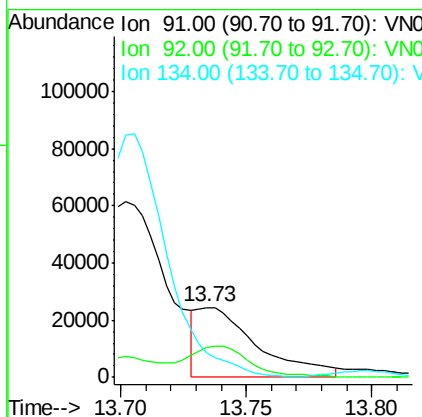
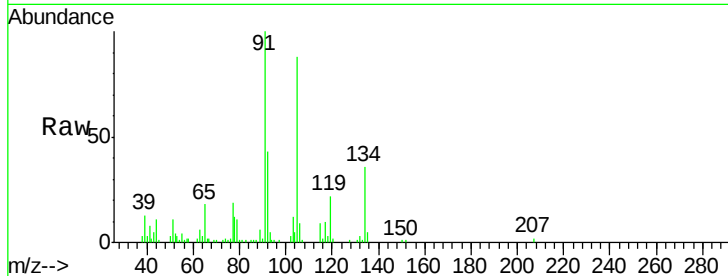
#90
n-Butylbenzene
Concen: 1.29 ug/l m
RT: 13.73 min Scan# 3777
Delta R.T. -0.00 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Instrument :
MSVOA_N
ClientSampleId :
MW-2B

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.1	78.2#
134	158.8	11.1	33.1#

Manual Integrations
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#96
Naphthalene
Concen: 1023.42 ug/l m
RT: 15.27 min Scan# 4255
Delta R.T. -0.02 min
Lab File: VN027358.D
Acq: 22 Sep 2015 4:48

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	12.8#

