

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
 Data File : VN054265.D
 Acq On : 14 Mar 2019 16:42
 Operator : JC/SP
 Sample : K1899-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2A

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:13:57 AM

Quant Time: Mar 15 07:42:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1475331	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2365323	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2542050	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1379819	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	725491	46.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.60%	
35) Dibromofluoromethane	7.59	113	710213	46.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.10%	
50) Toluene-d8	10.09	98	2974676	52.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.60%	
62) 4-Bromofluorobenzene	12.40	95	1235538	62.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	125.34%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	25879	5.769	ug/l	97
25) 2-Butanone	6.87	43	9072m	1.723	ug/l	
29) Tetrahydrofuran	7.22	42	15396	4.548	ug/l	92
30) Chloroform	7.37	83	26220	0.997	ug/l	99
39) Methylcyclohexane	9.09	83	11657	0.435	ug/l	90
40) Benzene	8.04	78	569741	9.140	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	17209	1.480	ug/l	96
52) Toluene	10.16	92	338438	8.563	ug/l	100
67) Ethyl Benzene	11.51	91	2850747	30.810	ug/l	100
68) m/p-Xylenes	11.62	106	1511634	41.800	ug/l	100
69) o-Xylene	11.95	106	1128286	32.005	ug/l	99
73) Isopropylbenzene	12.25	105	1320090	11.958	ug/l	100
78) n-propylbenzene	12.59	91	666664	5.566	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	4297650	46.803	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	11699271	129.870	ug/l	99
85) sec-Butylbenzene	13.17	105	94681m	0.864	ug/l	
86) p-Isopropyltoluene	13.29	119	3237273	33.665	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	39718	0.821	ug/l	89
89) n-Butylbenzene	13.61	91	127939m	1.751	ug/l	
95) Naphthalene	15.11	128	31275134m	484.389	ug/l	

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

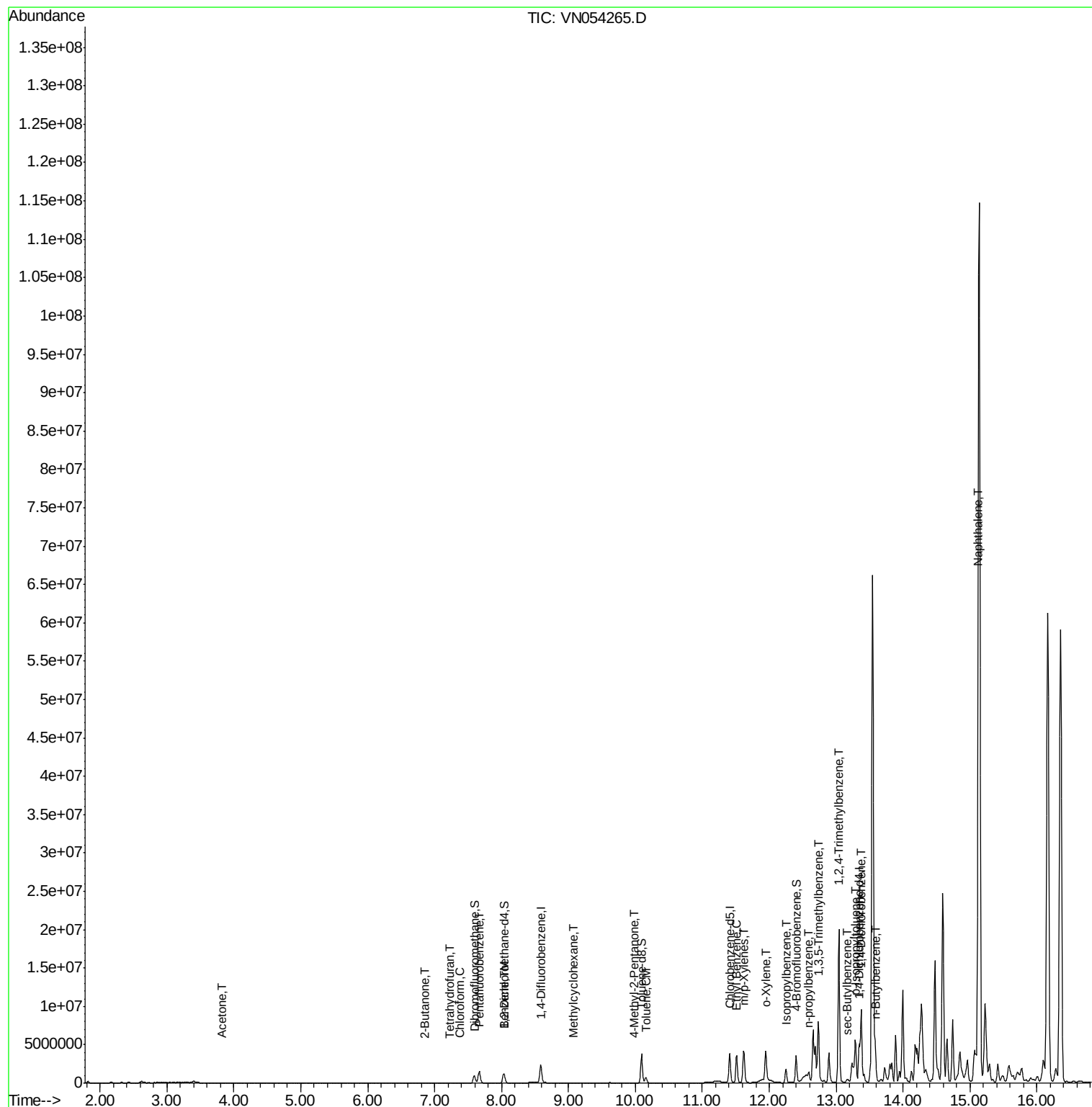
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
Data File : VN054265.D
Acq On : 14 Mar 2019 16:42
Operator : JC/SP
Sample : K1899-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

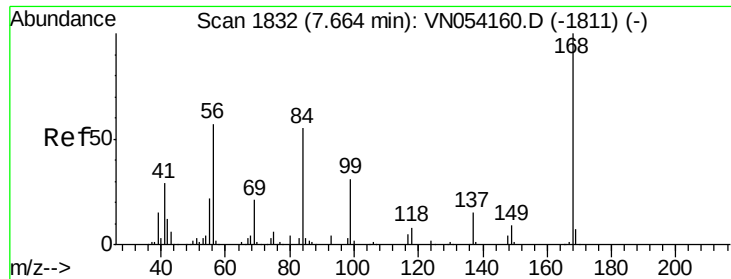
Instrument :
MSVOA_N
ClientSampleId :
MW-2A

Manual Integrations
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3/15/2019 10:13:57 AM

Quant Time: Mar 15 07:42:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

Instrument :

MSVOA_N

ClientSampled :

MW-2A

Tgt Ion:168 Resp: 1475331

Ion Ratio Lower Upper

168 100

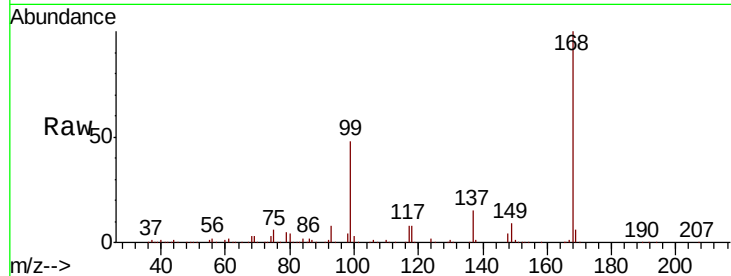
99 47.8 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN054160.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN054160.D (-1811) (-)

7.67

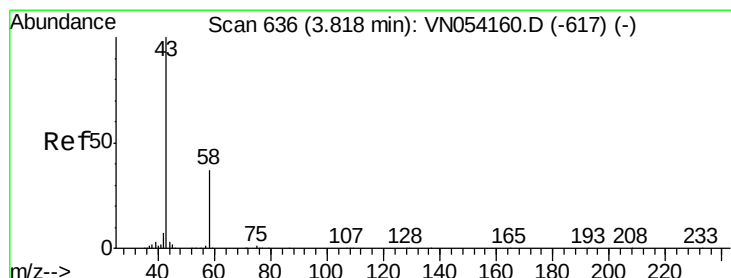
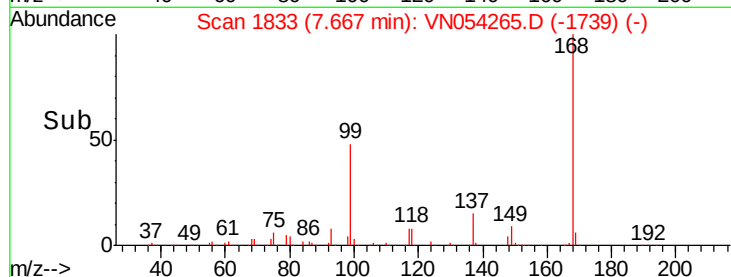
600000

400000

200000

0

Time-->



#16

Acetone

Concen: 5.769 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN054265.D

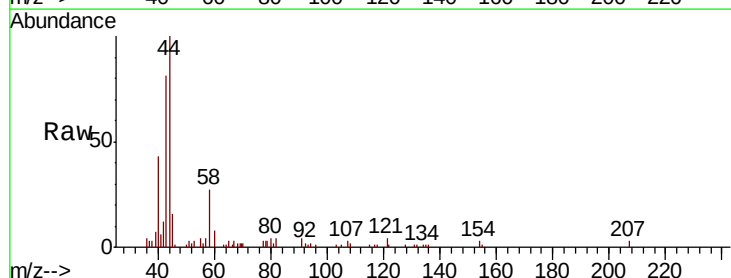
Acq: 14 Mar 2019 16:42

Tgt Ion: 43 Resp: 25879

Ion Ratio Lower Upper

43 100

58 39.1 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-617) (-)

Ion 58.00 (57.70 to 58.70): VN054160.D (-617) (-)

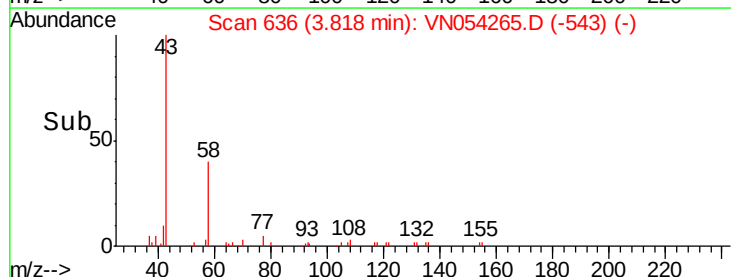
3.82

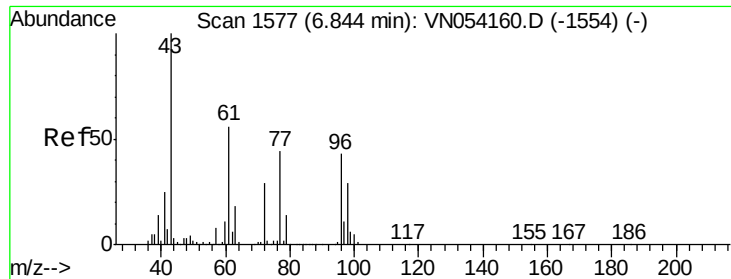
10000

5000

0

Time-->





#25

2-Butanone

Concen: 1.723 ug/l m

RT: 6.87 min Scan# 1585

Delta R.T. 0.03 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

Instrument :

MSVOA_N

ClientSampled :

MW-2A

Tgt Ion: 43 Resp: 9072

Ion Ratio Lower Upper

43 100

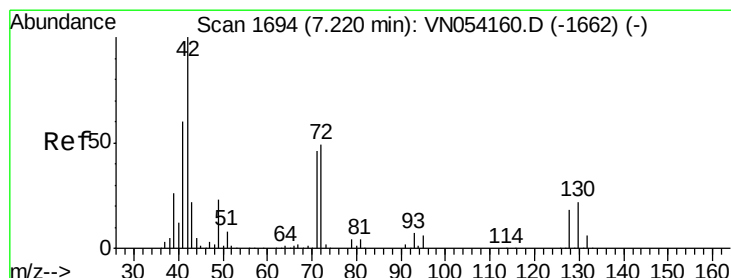
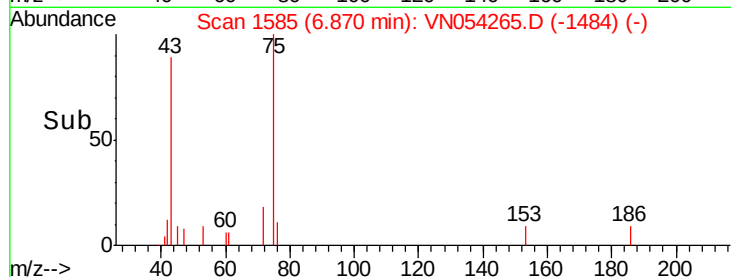
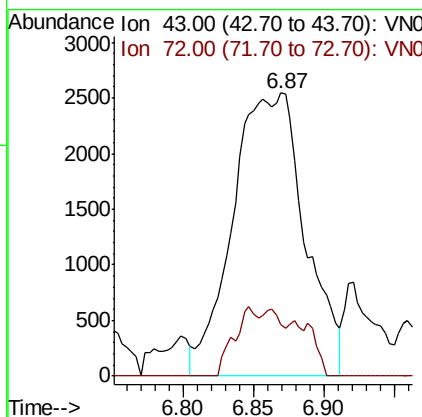
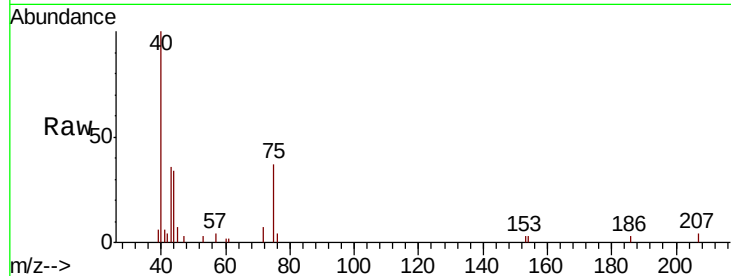
72 18.5 23.0 34.6#

Manual Integrations

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#29

Tetrahydrofuran

Concen: 4.548 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

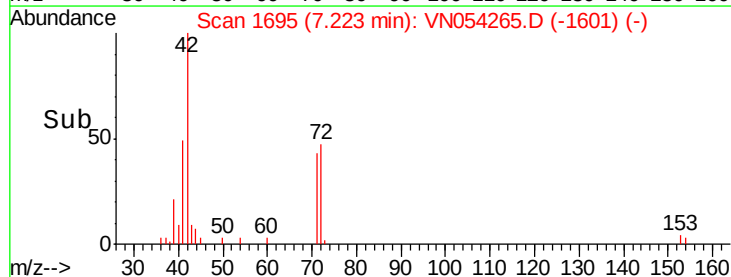
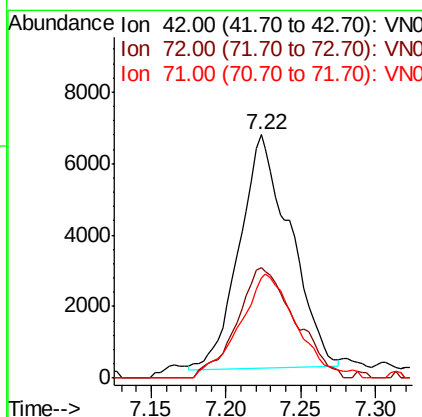
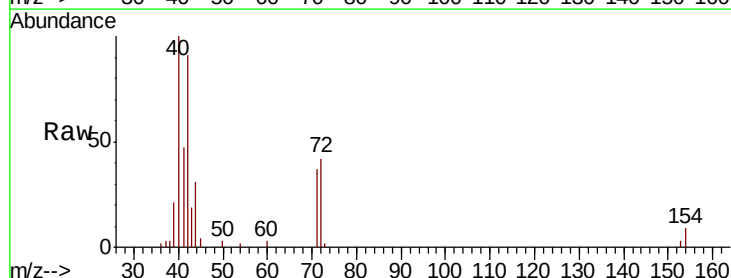
Tgt Ion: 42 Resp: 15396

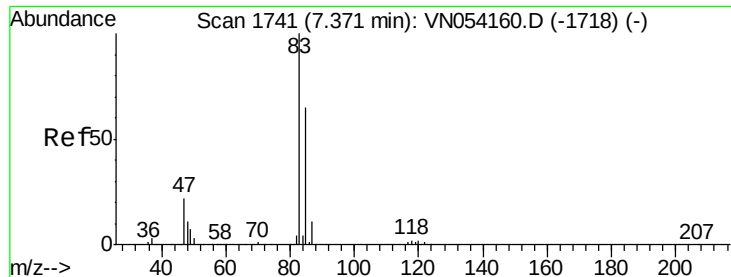
Ion Ratio Lower Upper

42 100

72 53.8 37.8 56.6

71 49.3 36.2 54.2





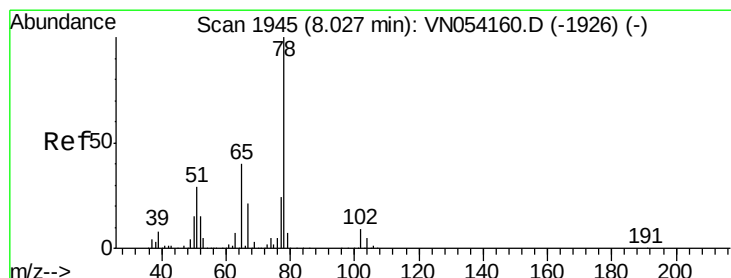
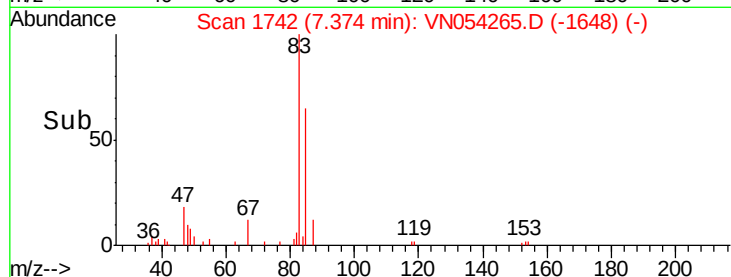
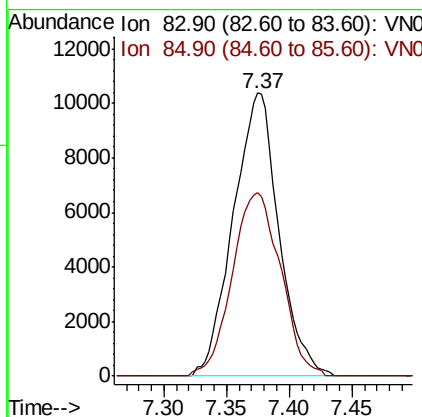
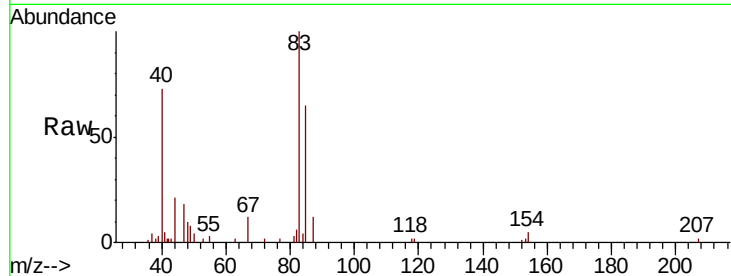
#30
Chloroform
Concen: 0.997 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054265.D
Acq: 14 Mar 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MW-2A

Tgt Ion: 83 Resp: 26220
Ion Ratio Lower Upper
83 100
85 64.6 52.2 78.4

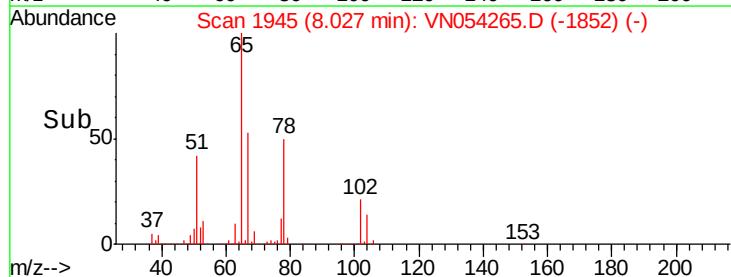
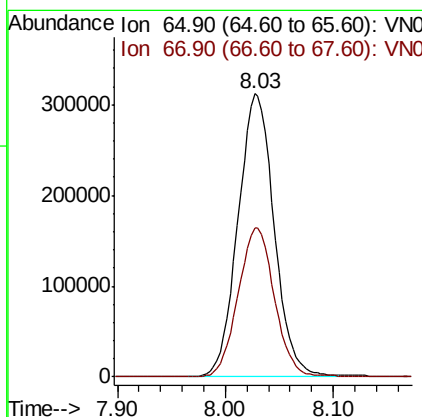
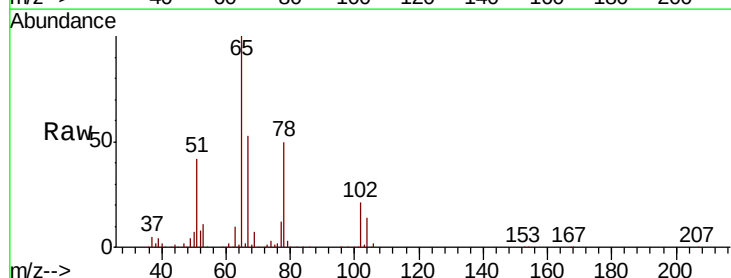
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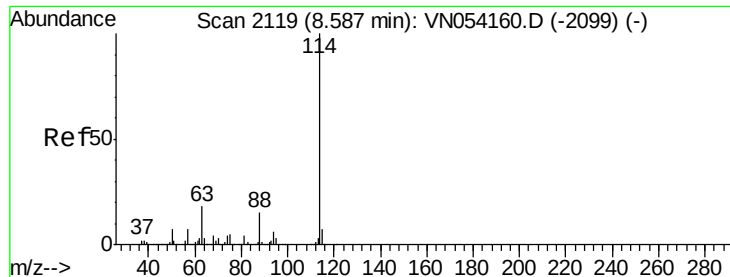
MMDadoda
3/15/2019 10:13:57 AM



#33
1,2-Dichloroethane-d4
Concen: 46.304 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054265.D
Acq: 14 Mar 2019 16:42

Tgt Ion: 65 Resp: 725491
Ion Ratio Lower Upper
65 100
67 52.9 0.0 104.6





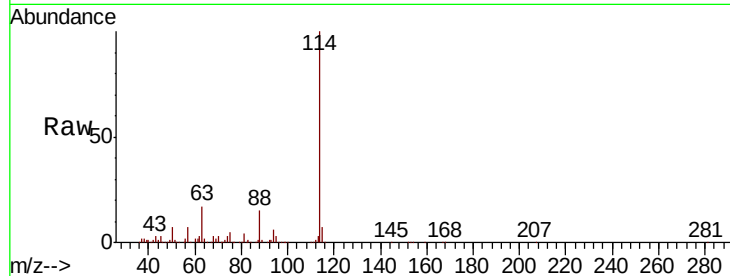
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN054265.D
Acq: 14 Mar 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MW-2A

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.2	0.0	35.2
88	14.5	0.0	30.2

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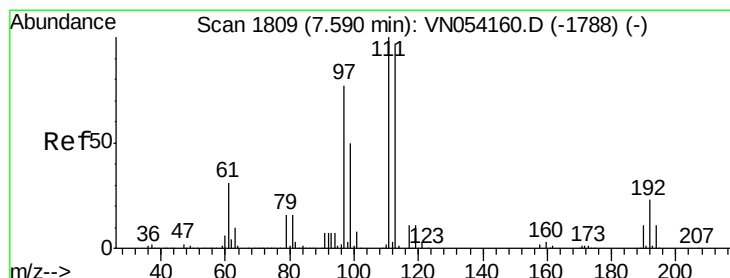
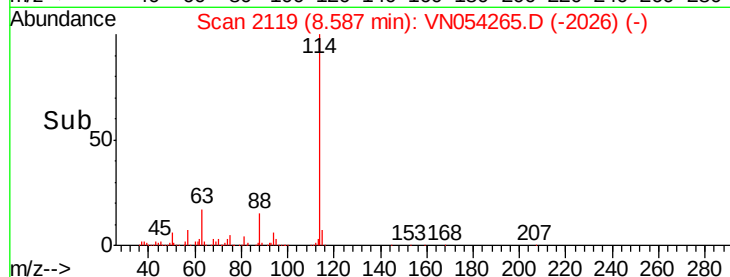
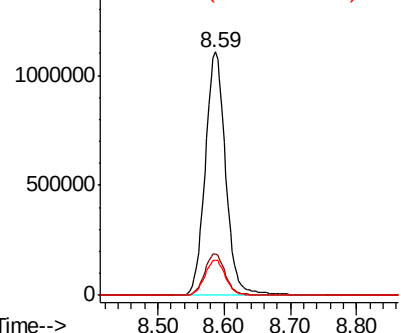


Abundance

Ion 113.90 (113.60 to 114.60): V

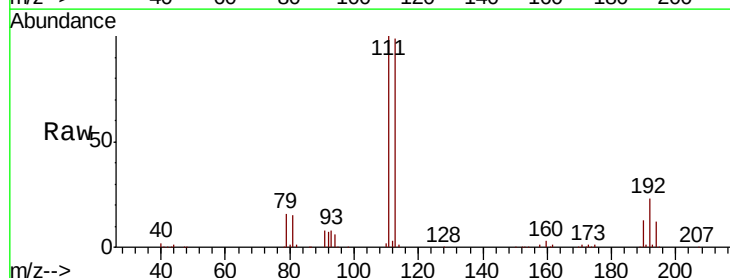
Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35
Dibromofluoromethane
Concen: 46.555 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN054265.D
Acq: 14 Mar 2019 16:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	23.9	19.2	28.8

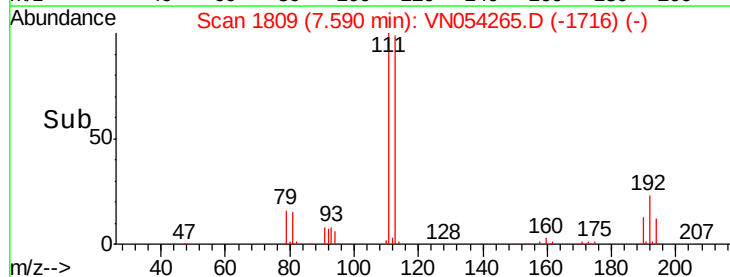
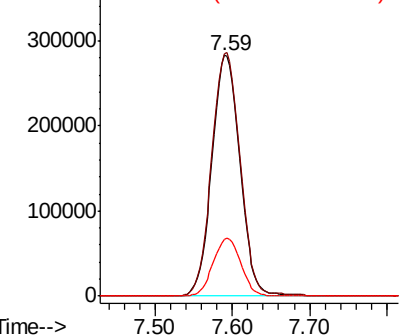


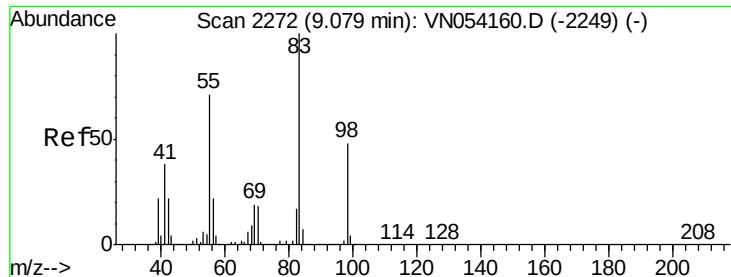
Abundance

Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





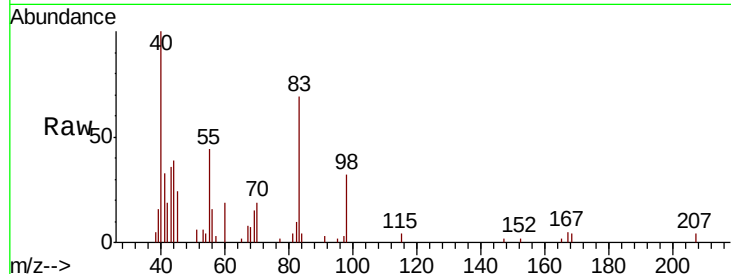
#39
Methylcyclohexane
Concen: 0.435 ug/l
RT: 9.09 min Scan# 2274
Delta R.T. 0.01 min
Lab File: VN054265.D
Acq: 14 Mar 2019 16:42

Instrument :
MSVOA_N
ClientSampled :
MW-2A

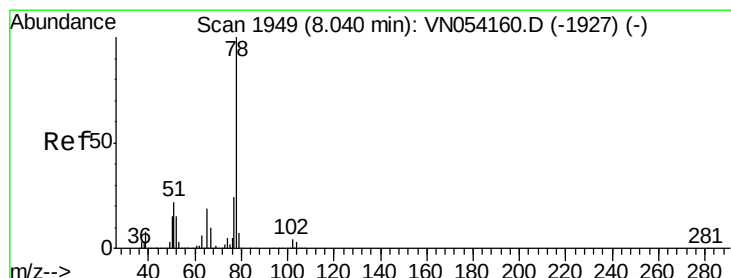
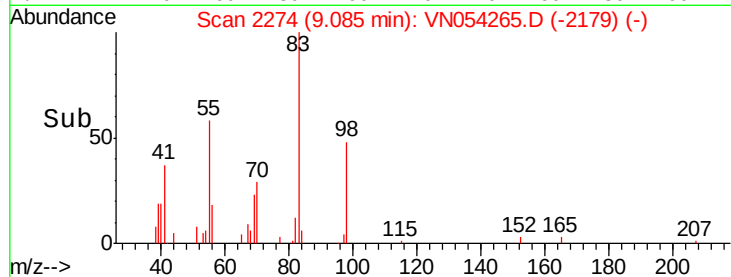
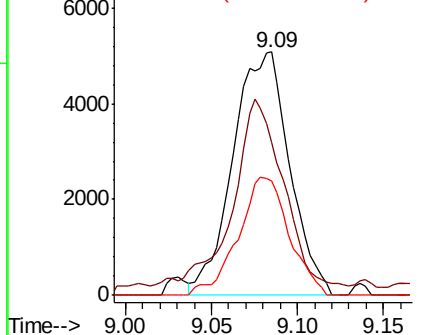
Tgt Ion	Ratio	Lower	Upper
83	100		
55	58.2	56.6	84.8
98	46.8	38.4	57.6

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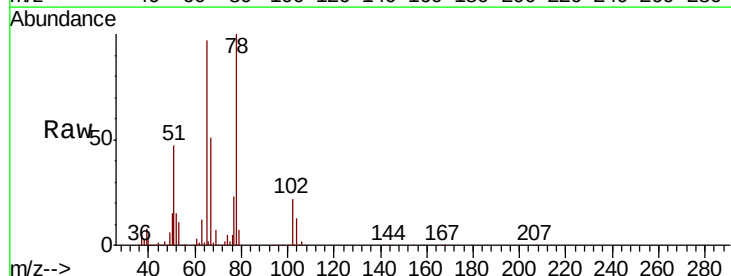


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

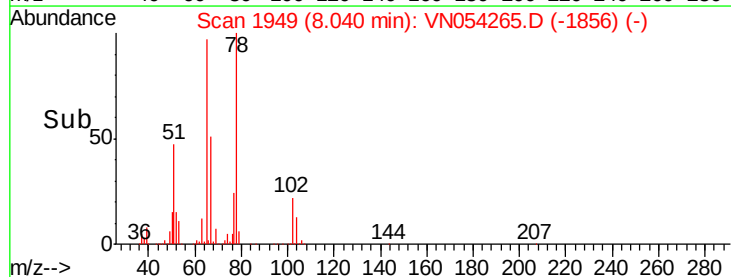
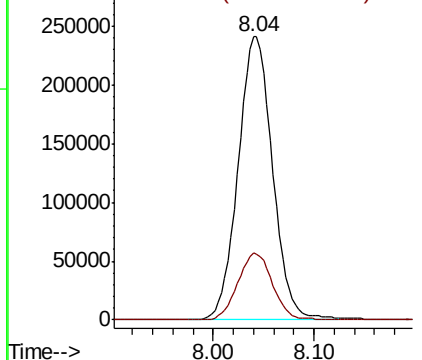


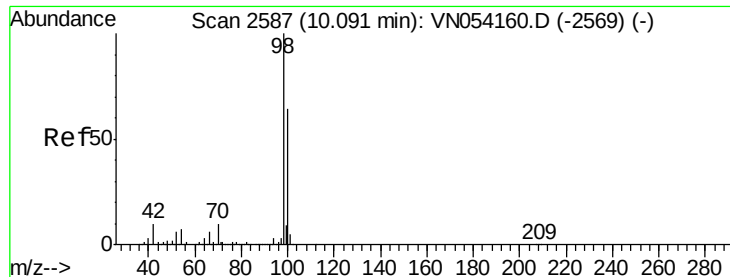
#40
Benzene
Concen: 9.140 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054265.D
Acq: 14 Mar 2019 16:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.1	28.7



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#50

Toluene-d8

Concen: 52.798 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MW-2A

Tgt Ion: 98 Resp: 2974676

Ion Ratio Lower Upper

98 100

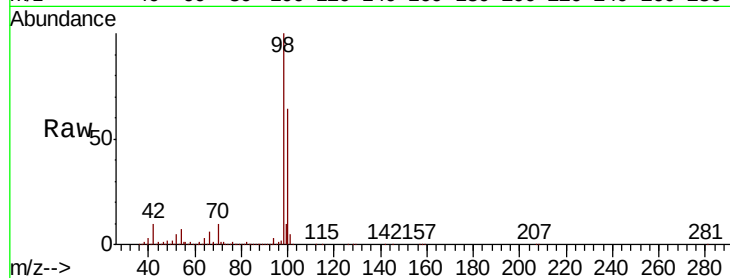
100 64.1 51.2 76.8

Manual Integrations

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Abundance Ion 98.00 (97.70 to 98.70): VN054160.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054160.D (-2569) (-)

1500000

1000000

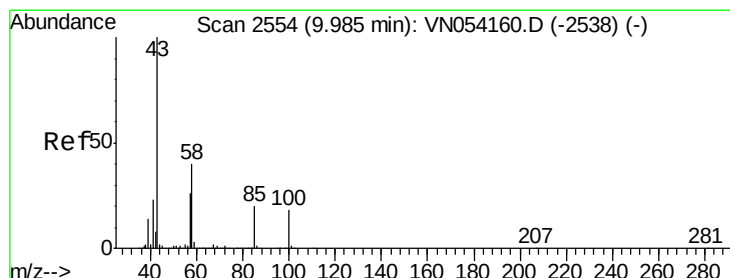
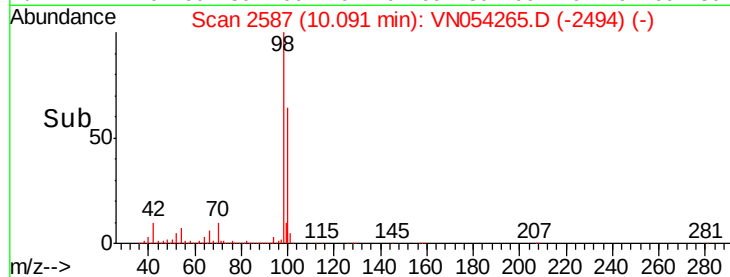
500000

0

10.09

10.00 10.10 10.20 10.30

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.480 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054265.D

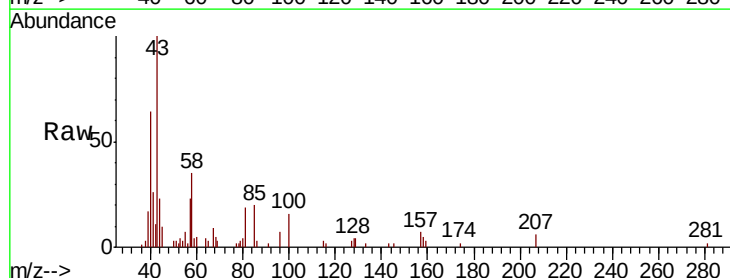
Acq: 14 Mar 2019 16:42

Tgt Ion: 43 Resp: 17209

Ion Ratio Lower Upper

43 100

58 42.1 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054160.D (-2538) (-)

12000

10000

8000

6000

4000

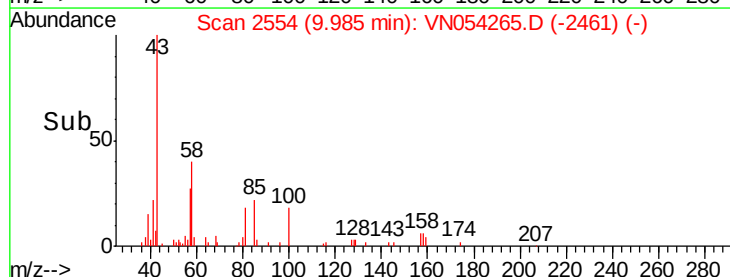
2000

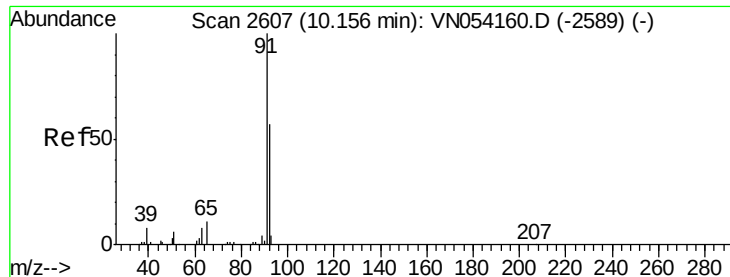
0

9.99

9.95 10.00 10.05

Time-->





#52

Toluene

Concen: 8.563 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MW-2A

Tgt Ion: 92 Resp: 338438

Ion Ratio Lower Upper

92 100

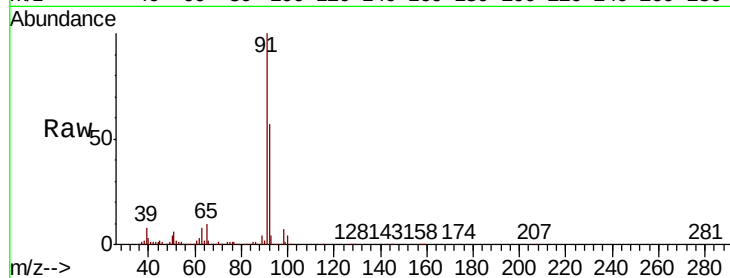
91 175.3 140.7 211.1

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Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

300000

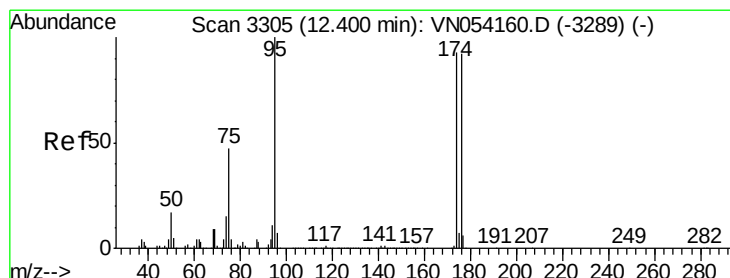
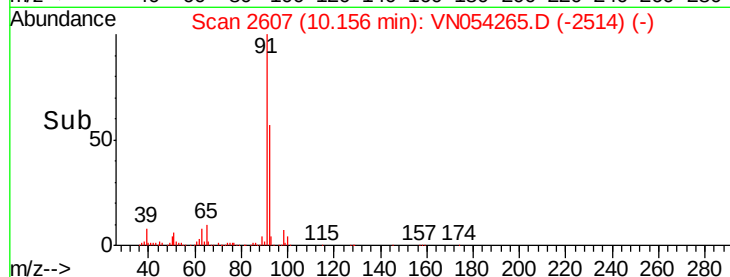
200000

100000

0

10.16

Time-->



#62

4-Bromofluorobenzene

Concen: 62.675 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

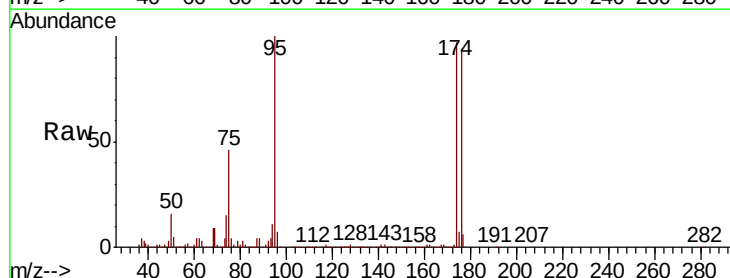
Tgt Ion: 95 Resp: 1235538

Ion Ratio Lower Upper

95 100

174 95.9 0.0 191.0

176 93.8 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

800000

600000

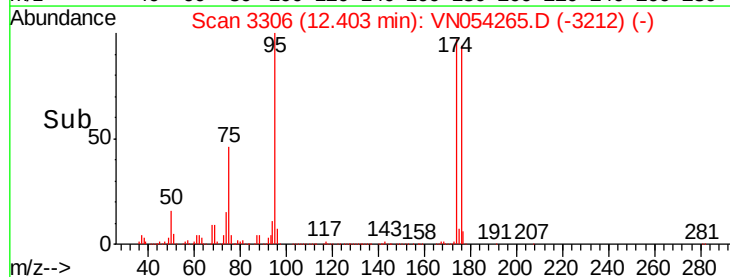
400000

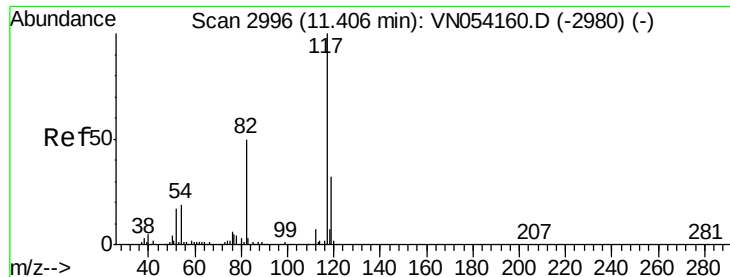
200000

0

12.40

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

Instrument :

MSVOA_N

ClientSampled :

MW-2A

Tgt Ion:117 Resp: 2542050

Ion Ratio Lower Upper

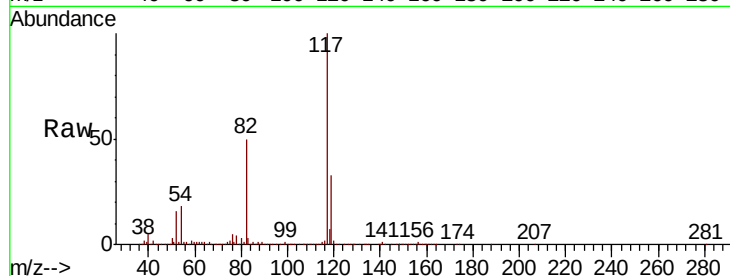
117 100

82 50.2 40.0 60.0

119 32.9 25.8 38.6

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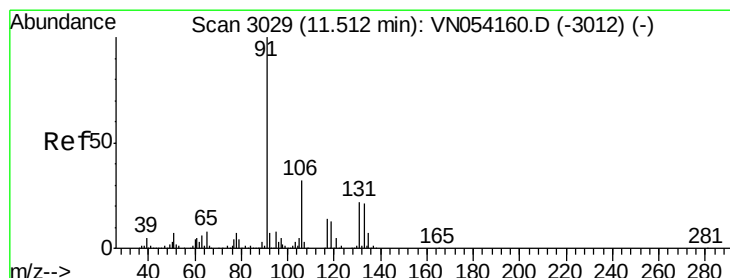
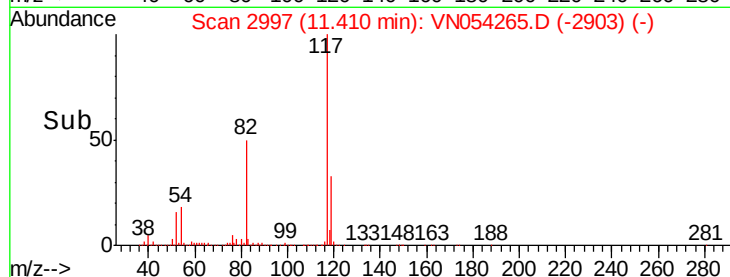
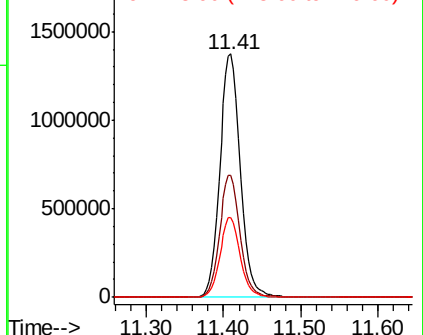
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 30.810 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN054265.D

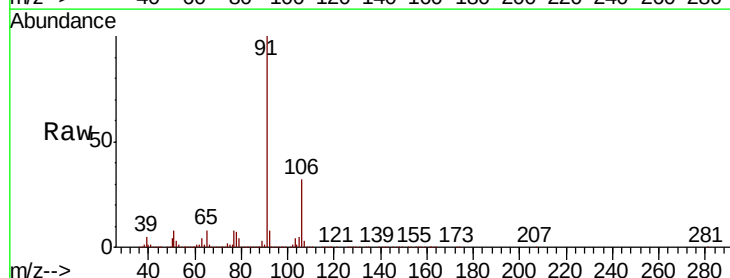
Acq: 14 Mar 2019 16:42

Tgt Ion: 91 Resp: 2850747

Ion Ratio Lower Upper

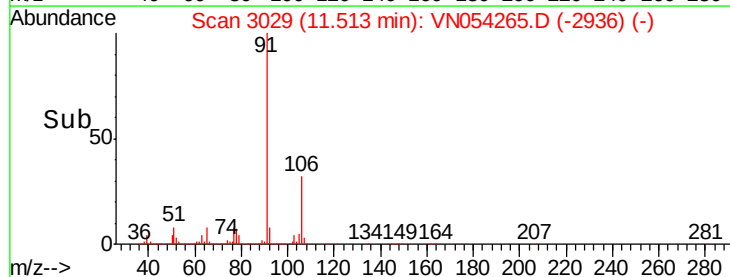
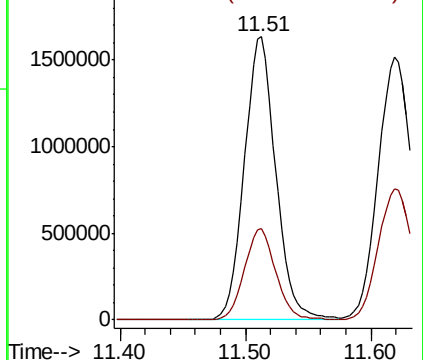
91 100

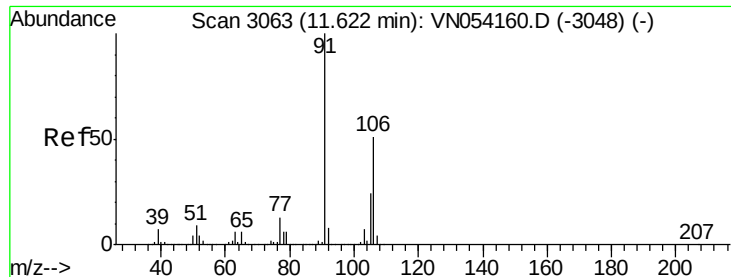
106 32.1 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 41.800 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

Instrument :

MSVOA_N

ClientSampled :

MW-2A

Tgt Ion:106 Resp: 1511634

Ion Ratio Lower Upper

106 100

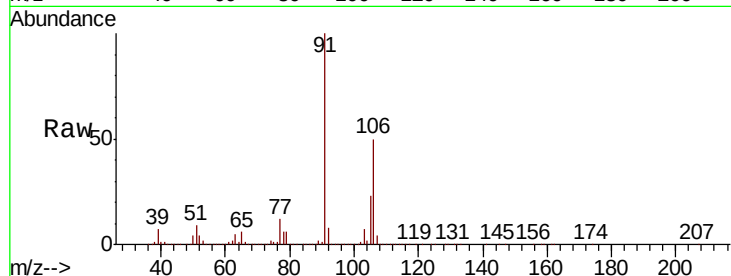
91 198.6 159.4 239.2

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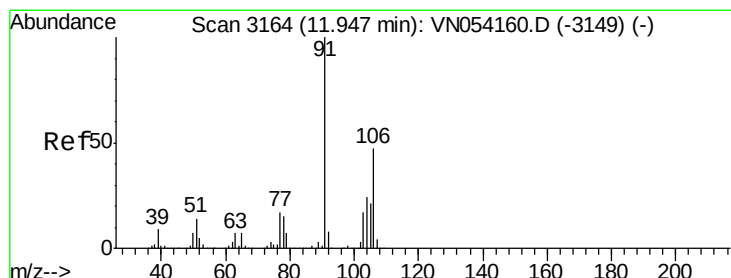
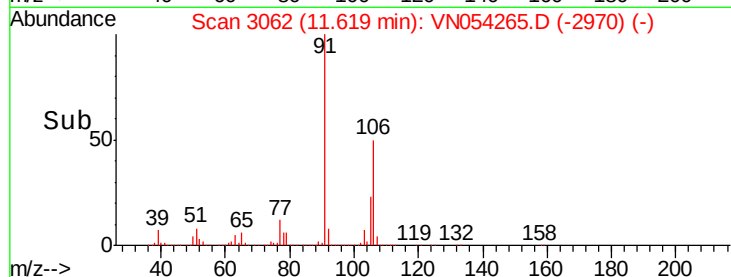
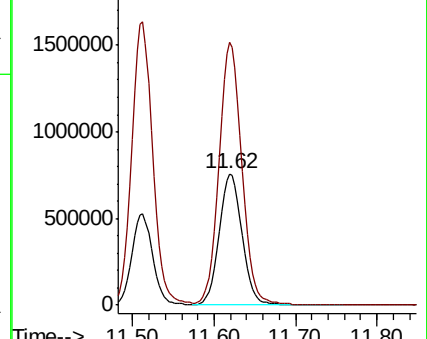
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#69

o-Xylene

Concen: 32.005 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN054265.D

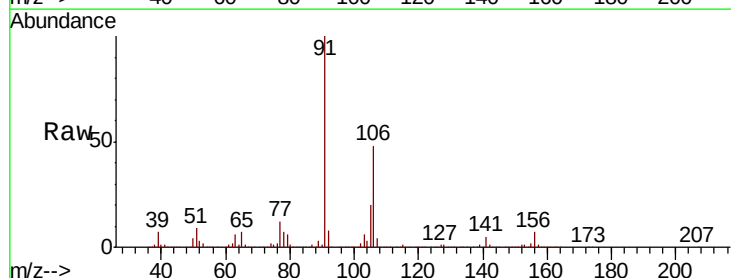
Acq: 14 Mar 2019 16:42

Tgt Ion:106 Resp: 1128286

Ion Ratio Lower Upper

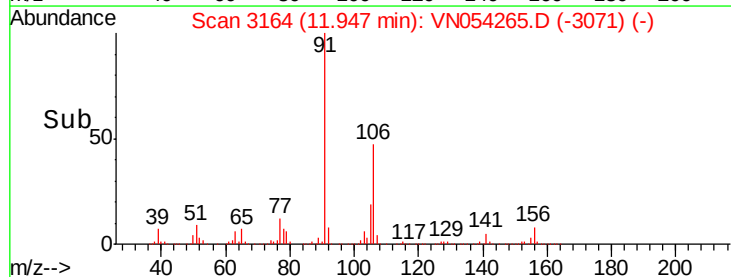
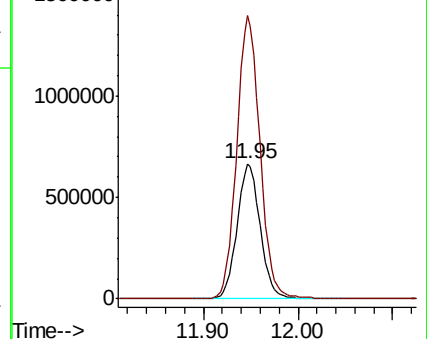
106 100

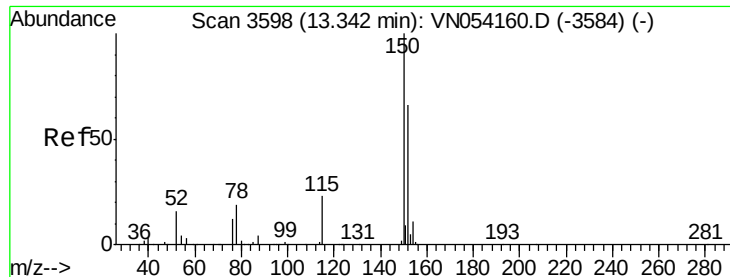
91 209.8 105.7 317.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MW-2A

Tgt Ion:152 Resp: 1379819

Ion Ratio Lower Upper

152 100

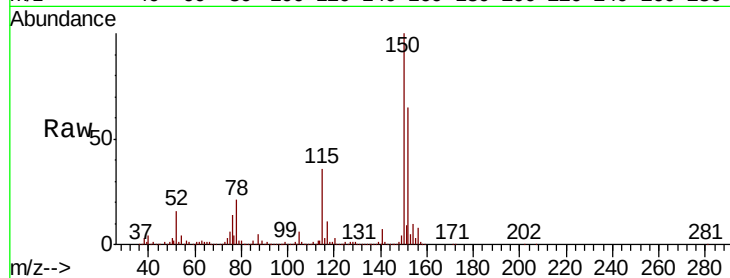
115 63.0 27.2 81.6

150 152.0 0.0 349.2

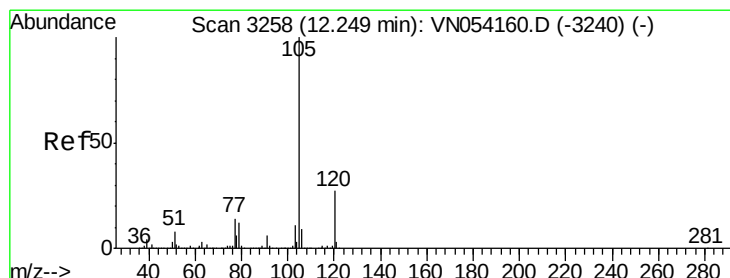
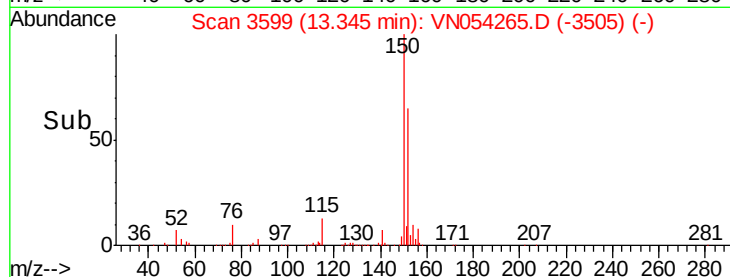
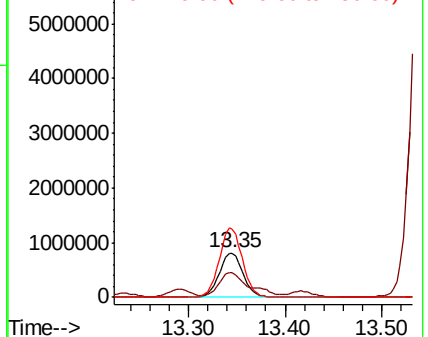
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Abundance Ion 151.90 (151.60 to 152.60): V
6000000
Ion 114.90 (114.60 to 115.60): V
5000000
Ion 149.90 (149.60 to 150.60): V
4000000
3000000
2000000
1000000
0



#73

Isopropylbenzene

Concen: 11.958 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054265.D

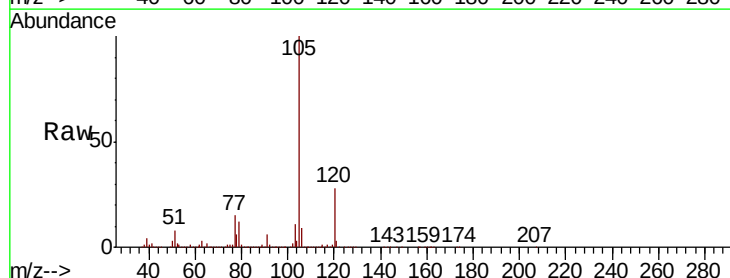
Acq: 14 Mar 2019 16:42

Tgt Ion:105 Resp: 1320090

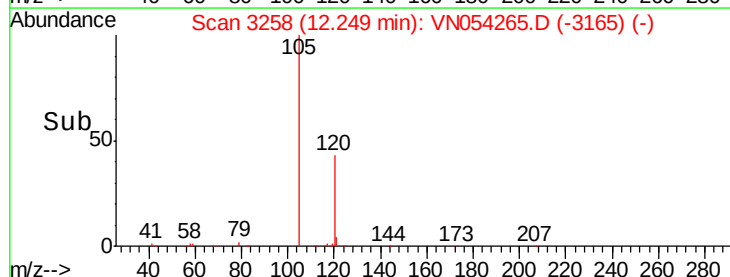
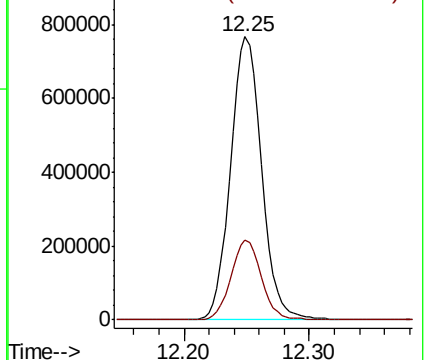
Ion Ratio Lower Upper

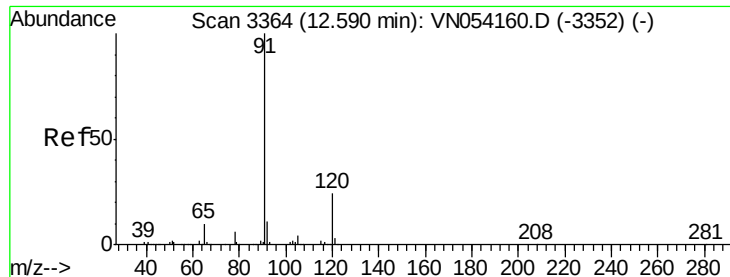
105 100

120 27.6 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V
800000
Ion 120.00 (119.70 to 120.70): V
600000
400000
200000
0





#78

n-propylbenzene

Concen: 5.566 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

Instrument :

MSVOA_N

ClientSampled :

MW-2A

Tgt Ion: 91 Resp: 666664

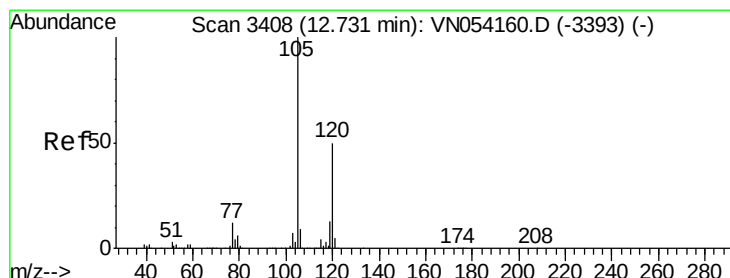
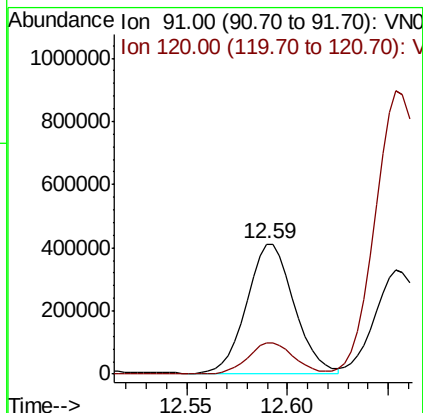
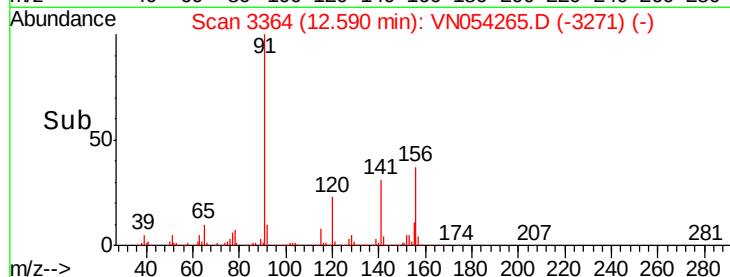
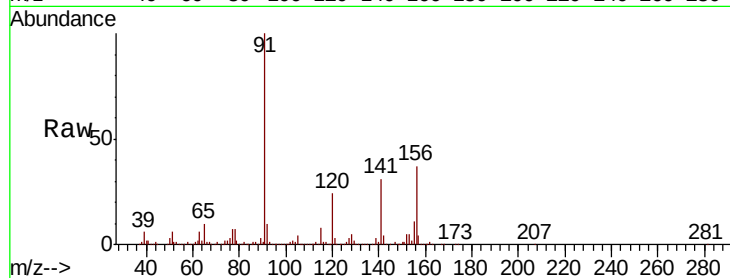
Ion Ratio Lower Upper

91 100

120 24.0 12.3 36.9

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#80

1,3,5-Trimethylbenzene

Concen: 46.803 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054265.D

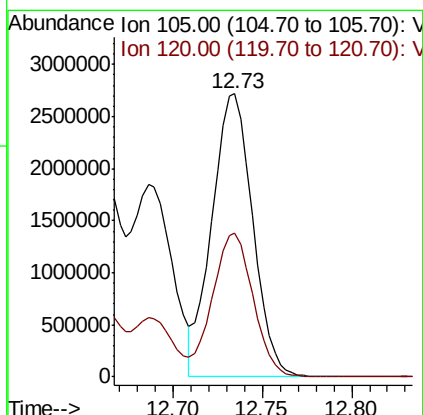
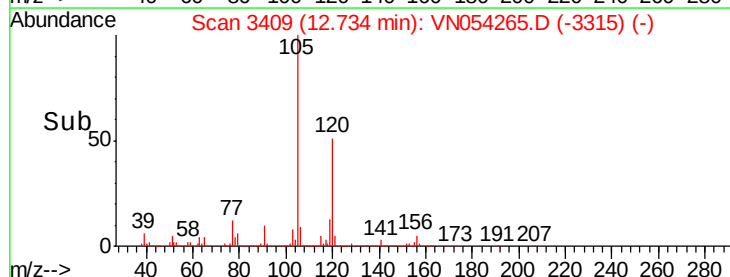
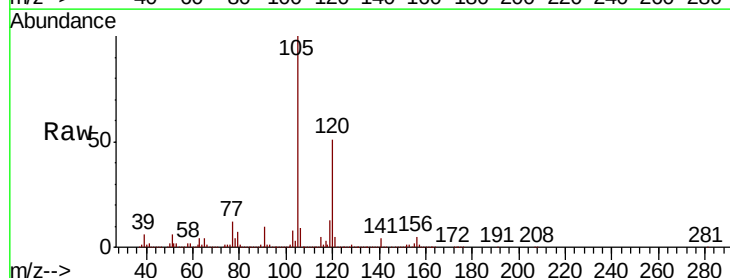
Acq: 14 Mar 2019 16:42

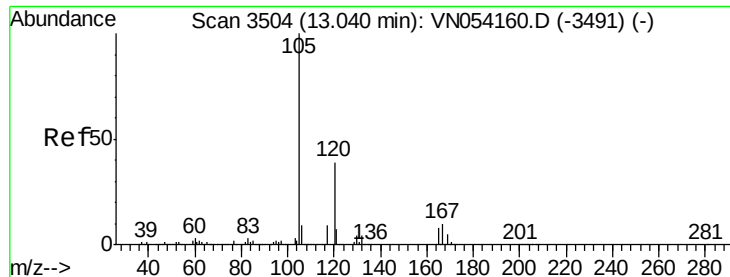
Tgt Ion: 105 Resp: 4297650

Ion Ratio Lower Upper

105 100

120 50.5 25.0 75.0





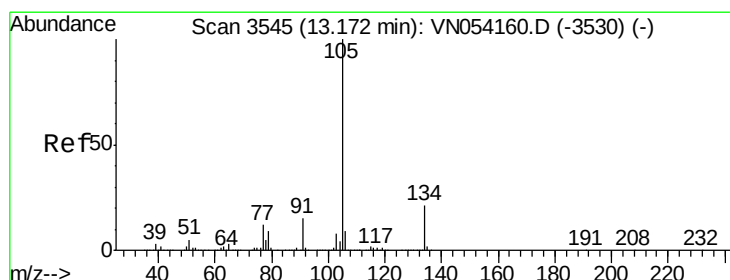
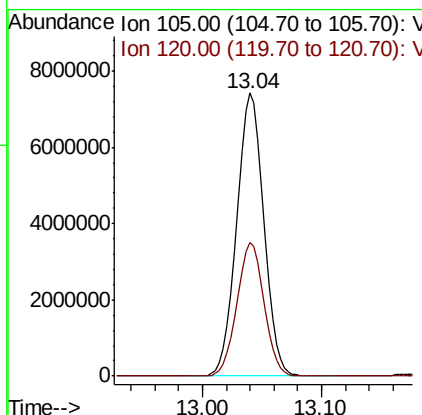
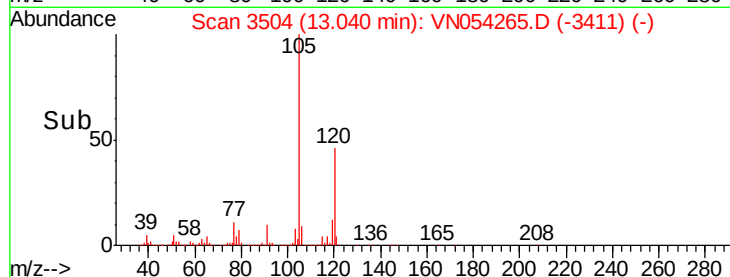
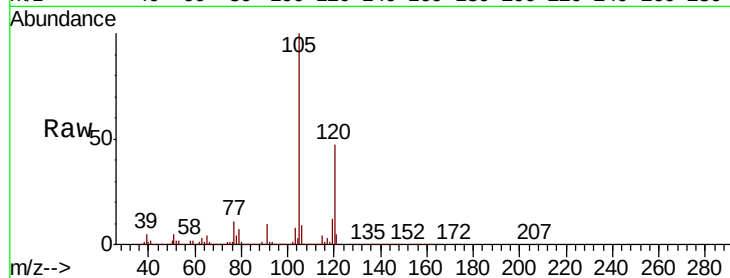
#84
 1,2,4-Trimethylbenzene
 Concen: 129.870 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054265.D
 Acq: 14 Mar 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2A

Tgt Ion:105 Resp:11699271
 Ion Ratio Lower Upper
 105 100
 120 47.3 23.4 70.3

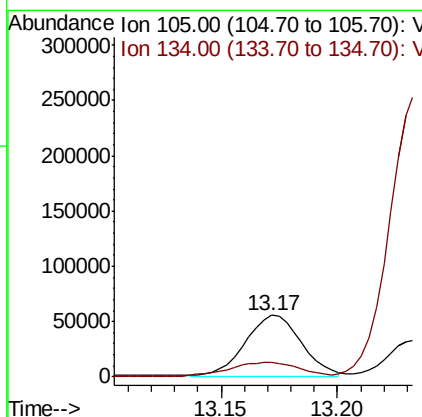
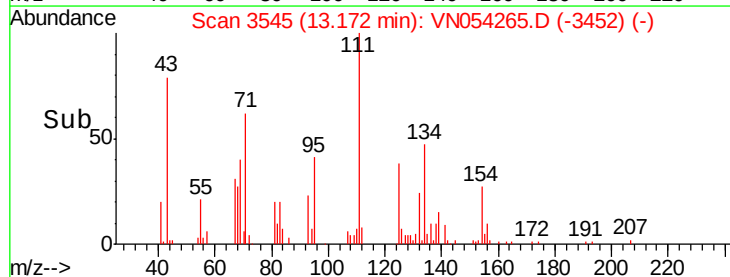
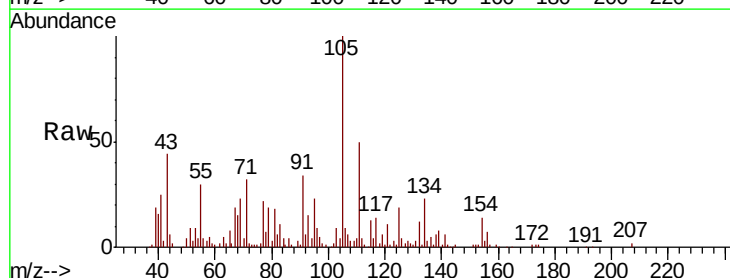
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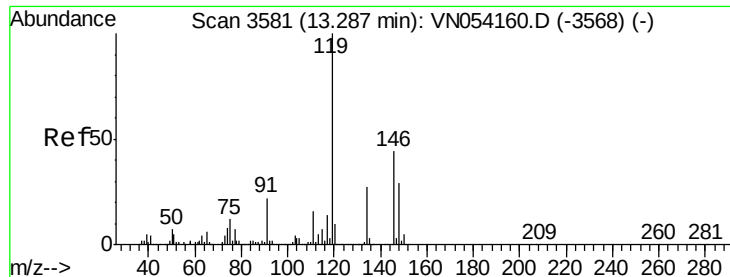
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#85
 sec-Butylbenzene
 Concen: 0.864 ug/l m
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN054265.D
 Acq: 14 Mar 2019 16:42

Tgt Ion:105 Resp: 94681
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.7 32.1#





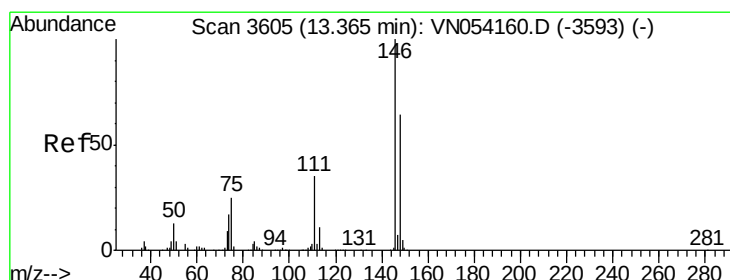
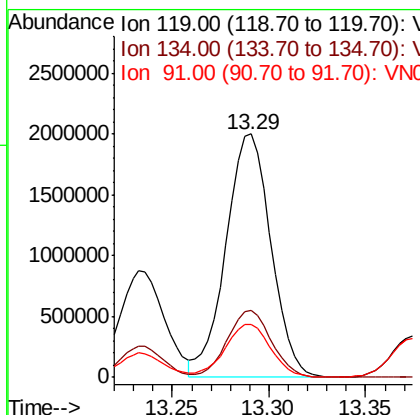
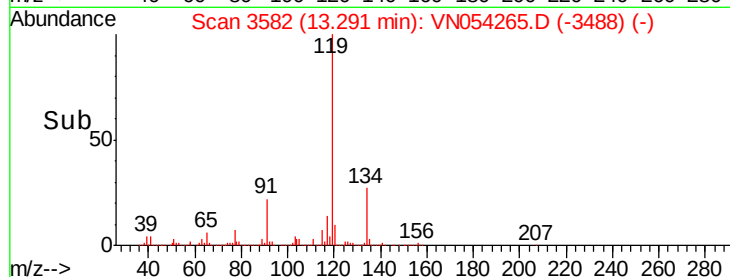
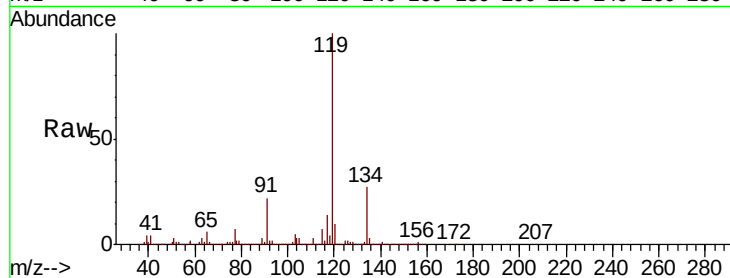
#86
p-Isopropyltoluene
Concen: 33.665 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN054265.D
Acq: 14 Mar 2019 16:42

Instrument :
MSVOA_N
ClientSampled :
MW-2A

Tgt Ion:119 Resp: 3237273
Ion Ratio Lower Upper
119 100
134 27.0 13.6 40.8
91 21.9 11.1 33.3

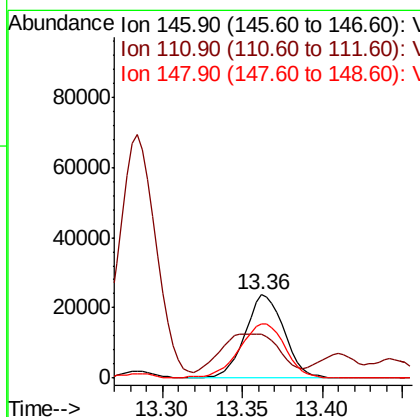
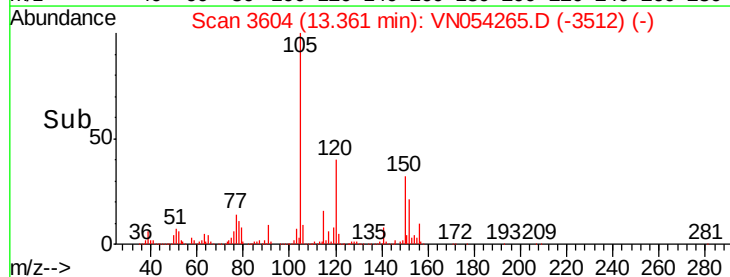
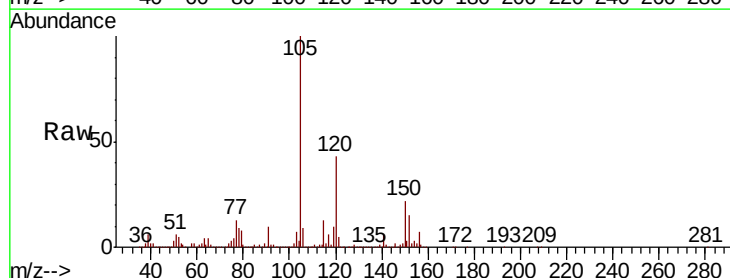
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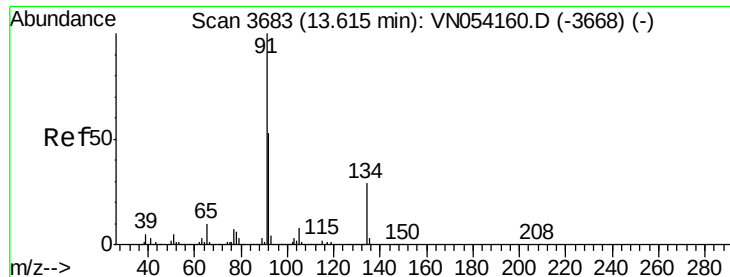
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#88
1,4-Dichlorobenzene
Concen: 0.821 ug/l
RT: 13.36 min Scan# 3604
Delta R.T. -0.00 min
Lab File: VN054265.D
Acq: 14 Mar 2019 16:42

Tgt Ion:146 Resp: 39718
Ion Ratio Lower Upper
146 100
111 37.1 18.1 54.1
148 76.5 32.0 96.0





#89

n-Butylbenzene

Concen: 1.751 ug/l m

RT: 13.61 min Scan# 3680

Delta R.T. -0.01 min

Lab File: VN054265.D

Acq: 14 Mar 2019 16:42

Instrument :

MSVOA_N

ClientSampled :

MW-2A

Tgt Ion: 91 Resp: 127939
Ion Ratio Lower Upper

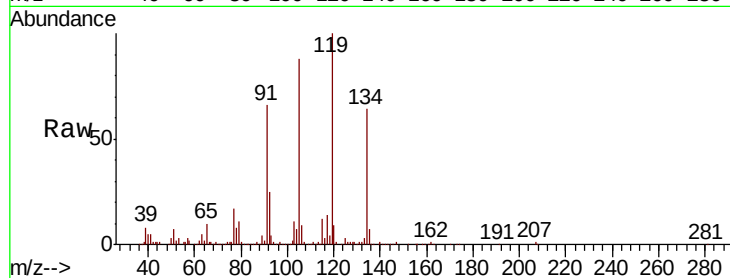
91 100

92 557.4 26.2 78.6#

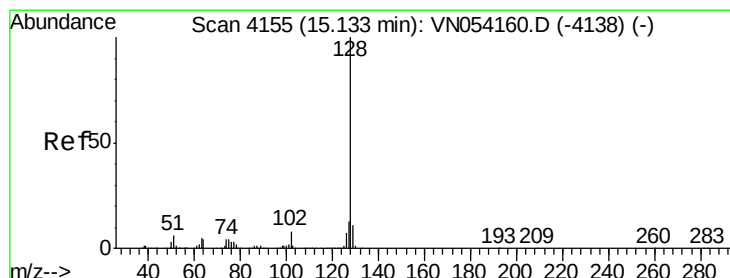
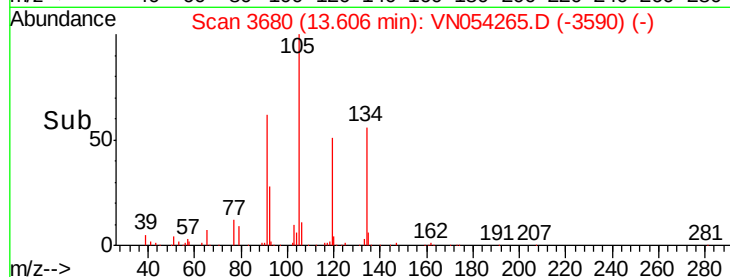
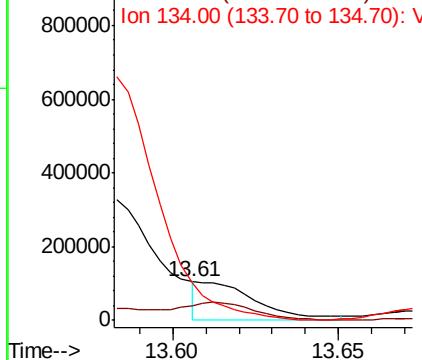
134 0.0 14.3 42.9#

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN054160.D (-3668) (-)
Ion 92.00 (91.70 to 92.70): VN054160.D (-3668) (-)
Ion 134.00 (133.70 to 134.70): VN054160.D (-3668) (-)



#95

Naphthalene

Concen: 484.389 ug/l m

RT: 15.11 min Scan# 4148

Delta R.T. -0.02 min

Lab File: VN054265.D

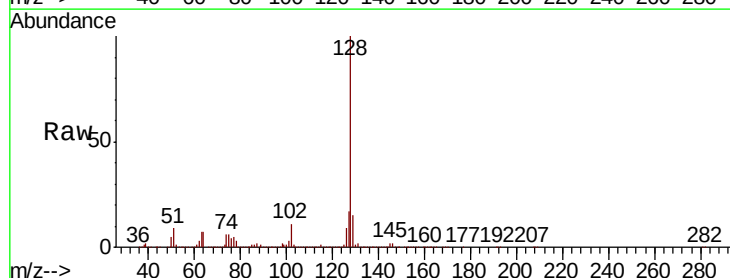
Acq: 14 Mar 2019 16:42

Tgt Ion: 128 Resp: 31275134
Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN054160.D (-4138) (-)
Ion 127.00 (126.70 to 127.70): VN054160.D (-4138) (-)
Ion 129.00 (128.70 to 129.70): VN054160.D (-4138) (-)

