

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101019\
 Data File : VN058659.D
 Acq On : 9 Oct 2019 22:28
 Operator : JC/SP
 Sample : K5184-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Manual Integrations
 APPROVED

MMDadoda
 10/10/2019 3:19:50 PM

Quant Time: Oct 10 05:35:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	469563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	744931	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	650518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	287778	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	318849	46.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.94%	
35) Dibromofluoromethane	7.57	113	229877	50.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.70%	
50) Toluene-d8	10.09	98	938652	52.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.96%	
62) 4-Bromofluorobenzene	12.40	95	324635	50.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.40%	
Target Compounds						
					Qvalue	
16) Acetone	3.79	43	251944	107.707	ug/l #	86
25) 2-Butanone	6.82	43	128235	39.929	ug/l	93
31) Cyclohexane	7.63	56	556517	58.602	ug/l	97
39) Methylcyclohexane	9.07	83	458220	55.087	ug/l	95
40) Benzene	8.03	78	460549	22.493	ug/l	99
52) Toluene	10.15	92	108895	8.450	ug/l	99
67) Ethyl Benzene	11.51	91	233155	9.955	ug/l	99
68) m/p-Xylenes	11.62	106	430416	48.844	ug/l	98
69) o-Xylene	11.95	106	13549	1.597	ug/l	91
73) Isopropylbenzene	12.25	105	2448372	115.123	ug/l	98
78) n-propylbenzene	12.59	91	2034324	84.905	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	27668m	1.554	ug/l	
83) tert-Butylbenzene	13.00	119	29041	1.933	ug/l	95
84) 1,2,4-Trimethylbenzene	13.05	105	18851m	1.057	ug/l	
85) sec-Butylbenzene	13.18	105	113791	5.755	ug/l #	64
86) p-Isopropyltoluene	13.29	119	37089	2.131	ug/l #	75
89) n-Butylbenzene	13.62	91	135431m	8.590	ug/l	
95) Naphthalene	15.13	128	619271	44.042	ug/l	100

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

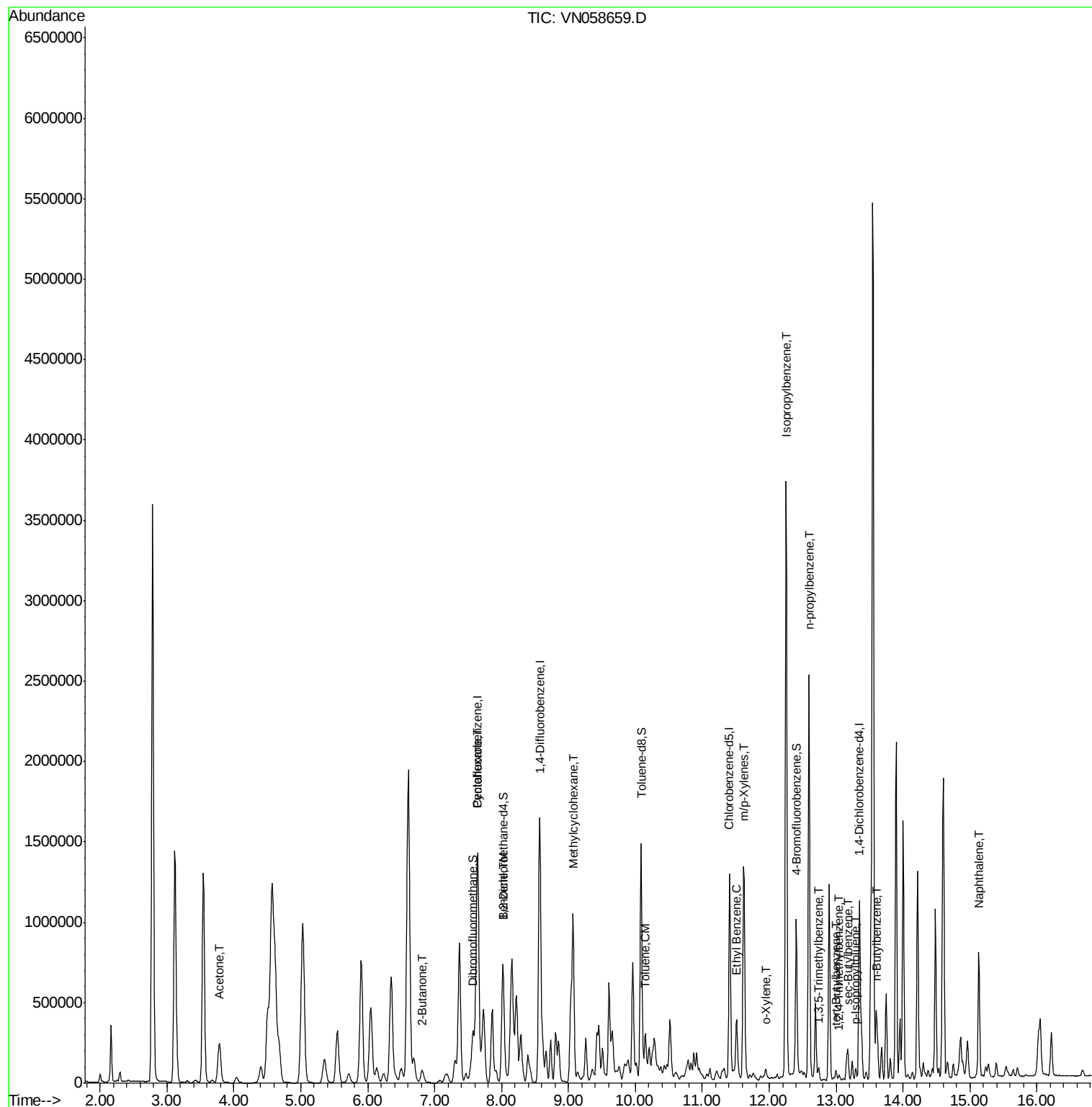
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN101019\
Data File : VN058659.D
Acq On : 9 Oct 2019 22:28
Operator : JC/SP
Sample : K5184-04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 20 Sample Multiplier: 1

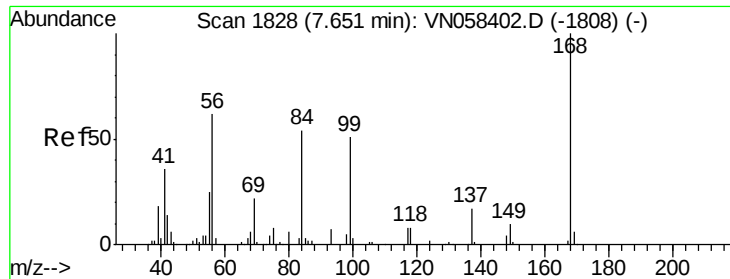
Instrument :
MSVOA_N
ClientSampleId :
MW-2

Manual Integrations
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion:168 Resp: 469563

Ion Ratio Lower Upper

168 100

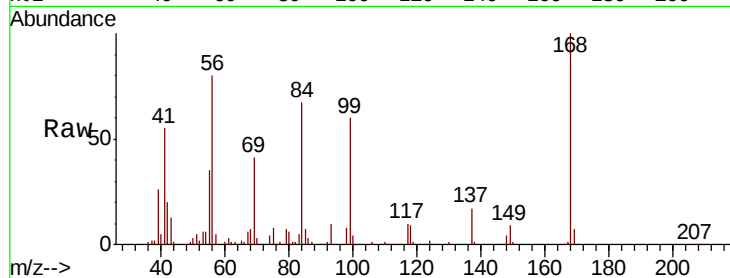
99 59.8 47.7 71.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN058402.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058402.D (-1808) (-)

7.65

200000

150000

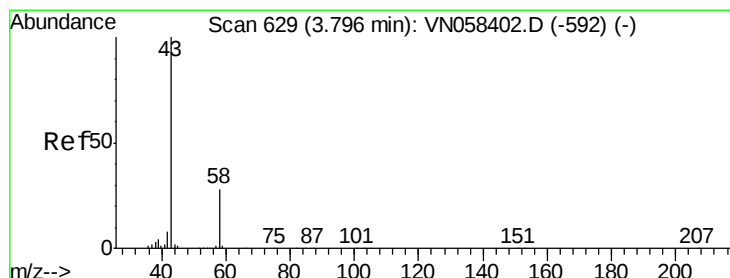
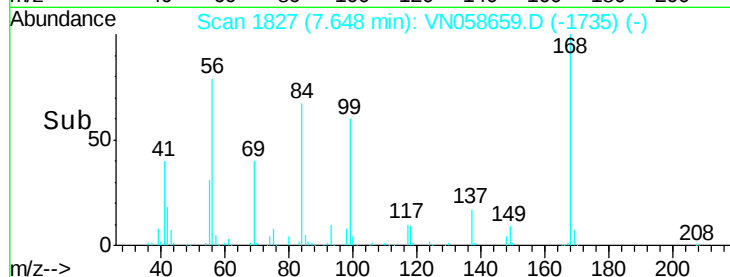
100000

50000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 107.707 ug/l

RT: 3.79 min Scan# 627

Delta R.T. -0.01 min

Lab File: VN058659.D

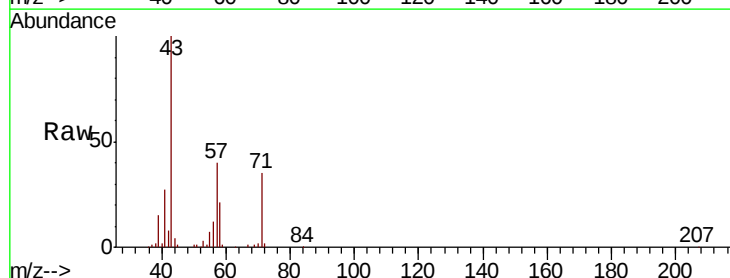
Acq: 9 Oct 2019 22:28

Tgt Ion: 43 Resp: 251944

Ion Ratio Lower Upper

43 100

58 20.6 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-592) (-)

Ion 58.00 (57.70 to 58.70): VN058402.D (-592) (-)

3.79

80000

60000

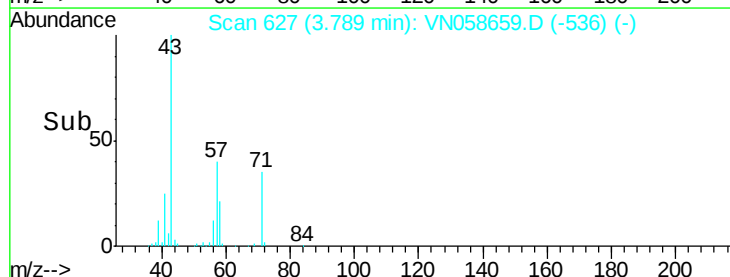
40000

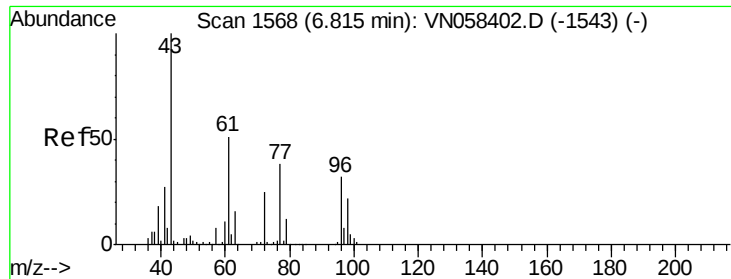
20000

0

3.70 3.80 3.90

Time-->





#25

2-Butanone

Concen: 39.929 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tot Ion: 43 Resp: 128235

Ion Ratio Lower Upper

43 100

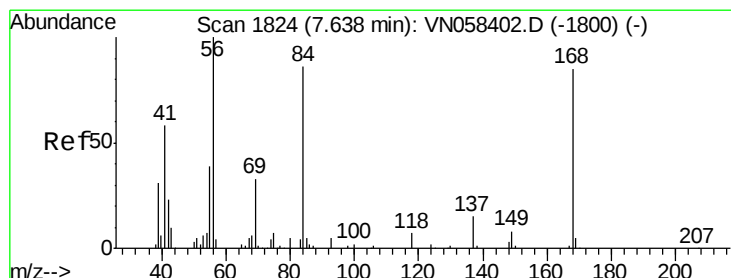
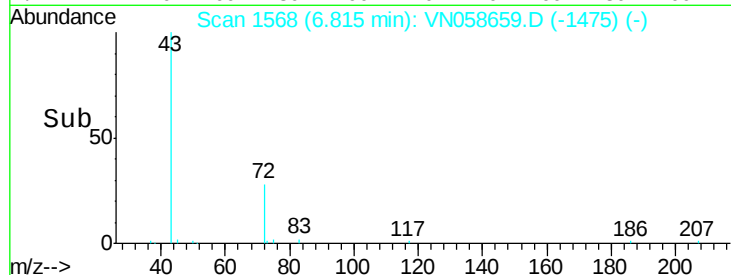
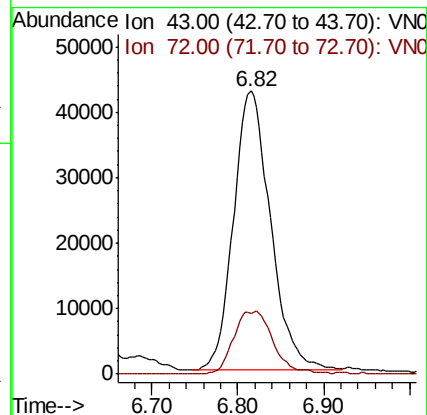
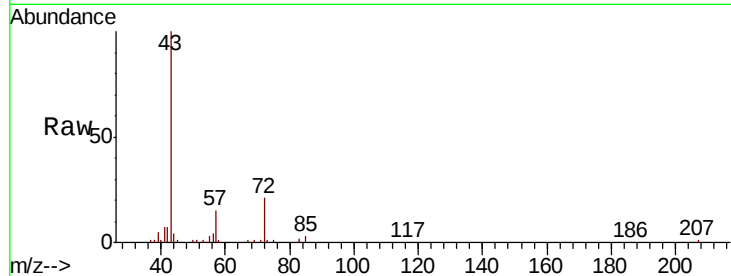
72 21.7 20.2 30.4

Manual Integrations

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#31

Cyclohexane

Concen: 58.602 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. -0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

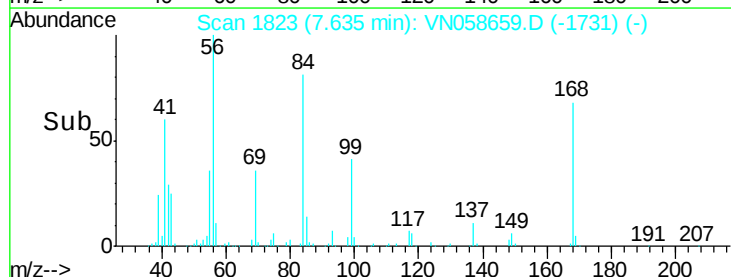
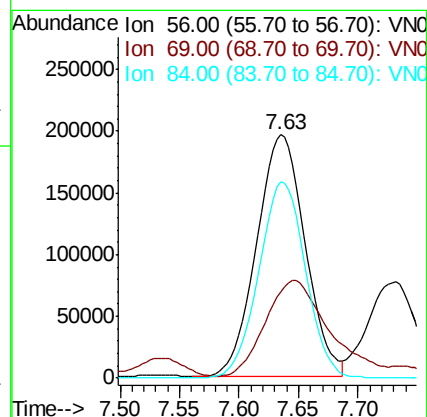
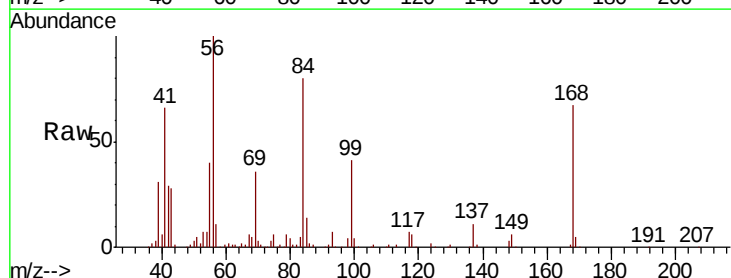
Tgt Ion: 56 Resp: 556517

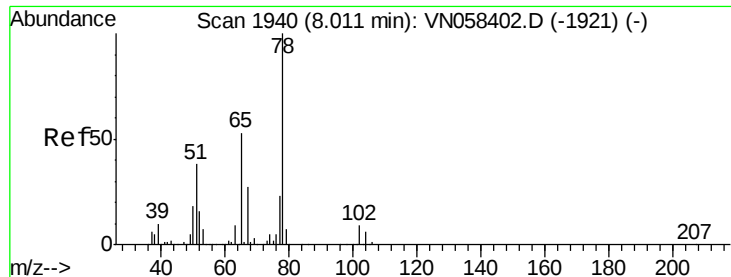
Ion Ratio Lower Upper

56 100

69 32.5 26.2 39.4

84 80.8 67.6 101.4





#33

1,2-Dichloroethane-d4

Concen: 46.467 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tot Ion: 65 Resp: 318849

Ion Ratio Lower Upper

65 100

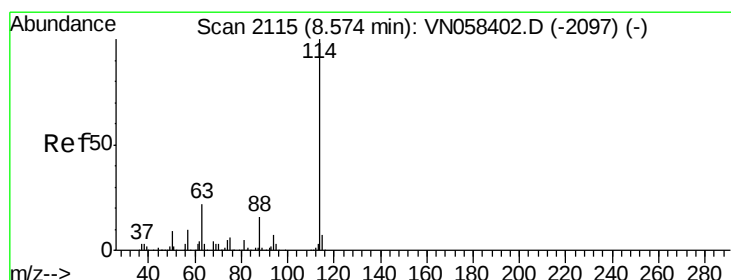
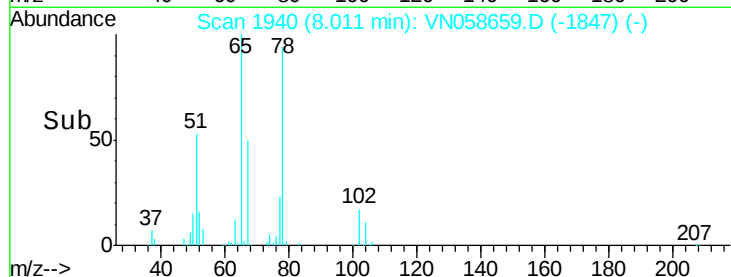
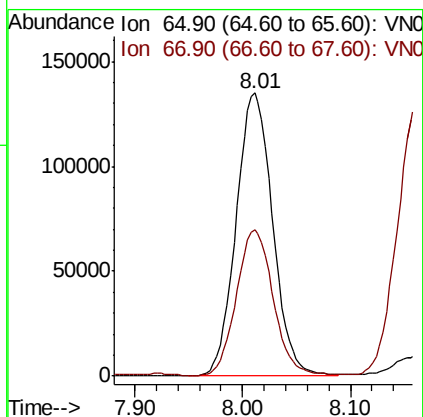
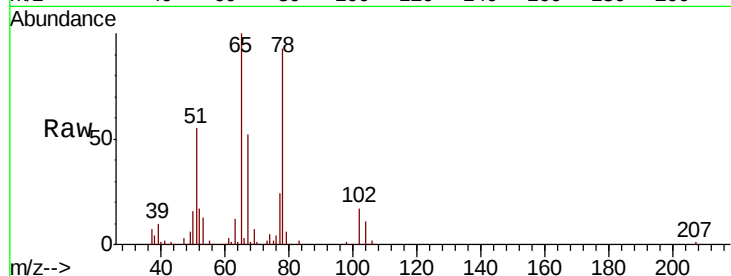
67 51.9 0.0 102.4

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

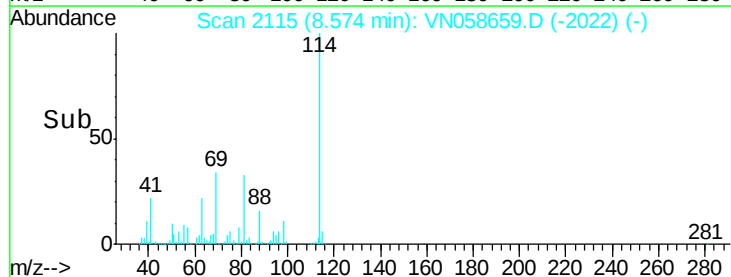
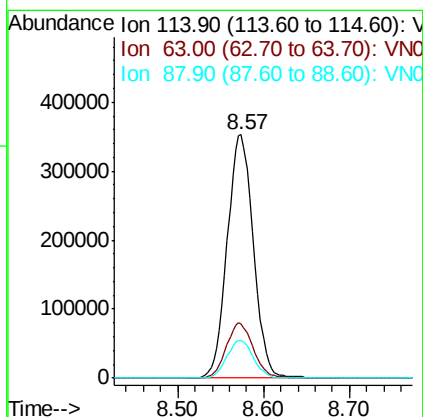
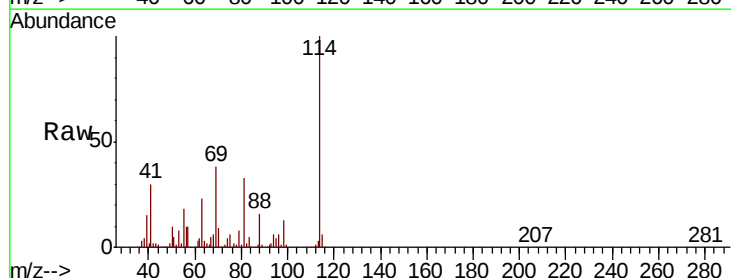
Tgt Ion: 114 Resp: 744931

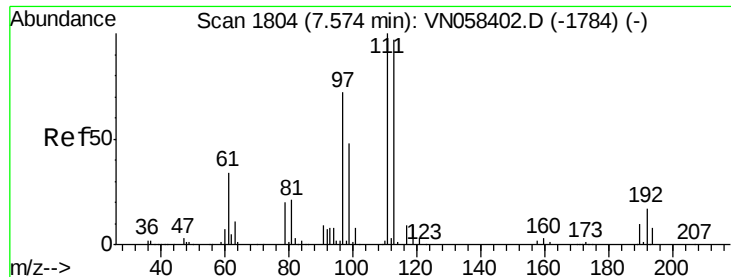
Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.0

88 15.6 0.0 32.2





#35

Dibromofluoromethane

Concen: 50.350 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

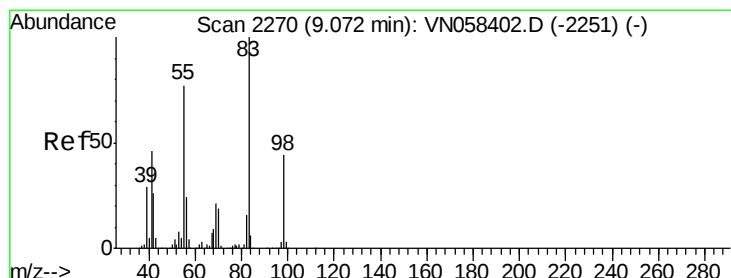
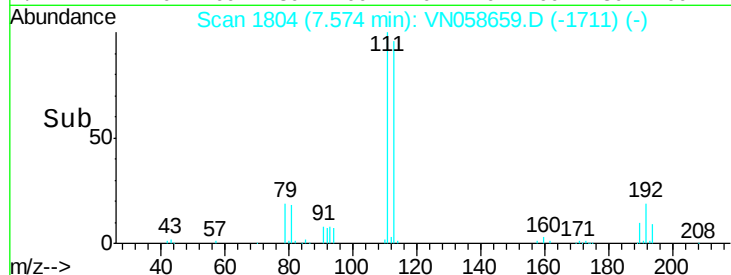
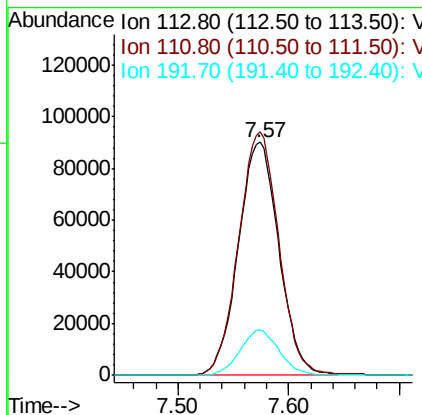
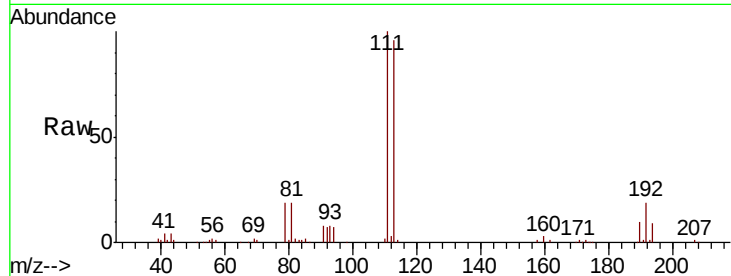
ClientSampled :

MW-2

Tot Ion:	113	Resp:	229877
Ion Ratio	Lower	Upper	
113	100		
111	103.6	83.4	125.2
192	18.8	14.9	22.3

Manual Integrations
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#39

Methylcyclohexane

Concen: 55.087 ug/l

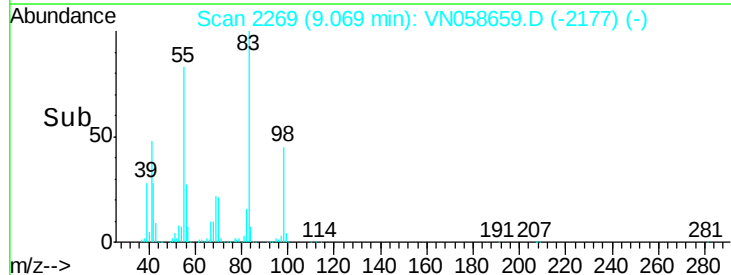
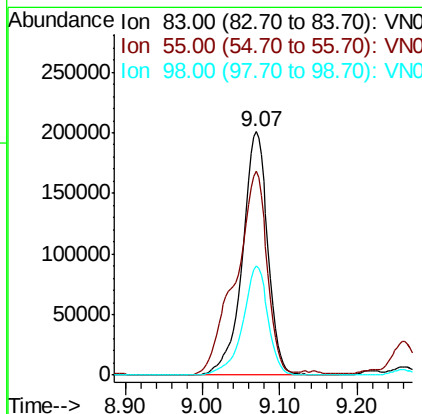
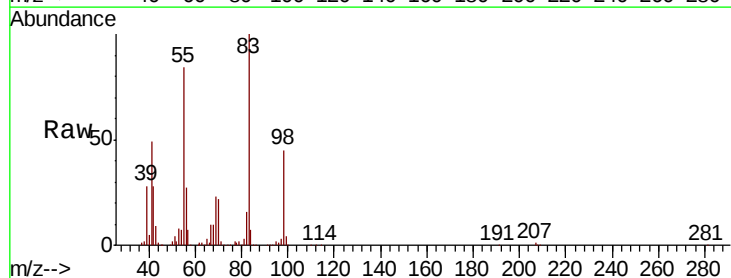
RT: 9.07 min Scan# 2269

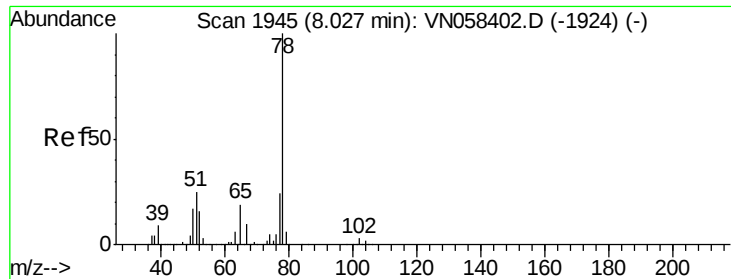
Delta R.T. -0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Tgt Ion:	83	Resp:	458220
Ion Ratio	Lower	Upper	
83	100		
55	83.5	61.8	92.6
98	45.0	35.4	53.0





#40

Benzene

Concen: 22.493 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tot Ion: 78 Resp: 460549

Ion Ratio Lower Upper

78 100

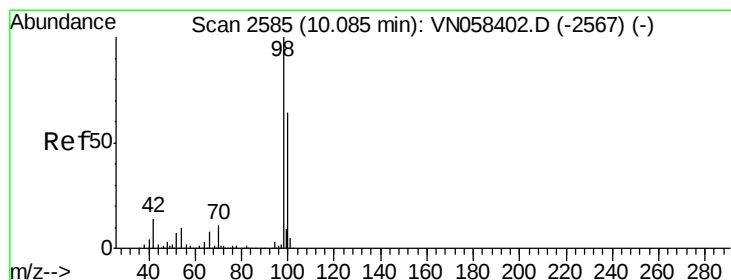
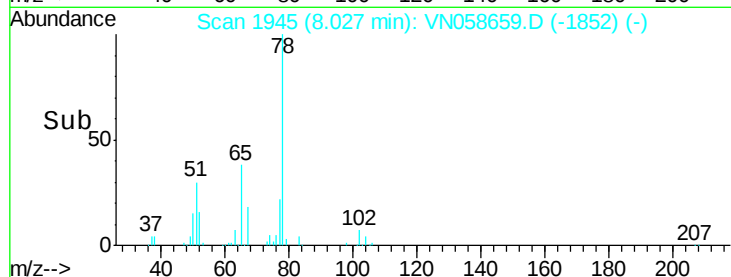
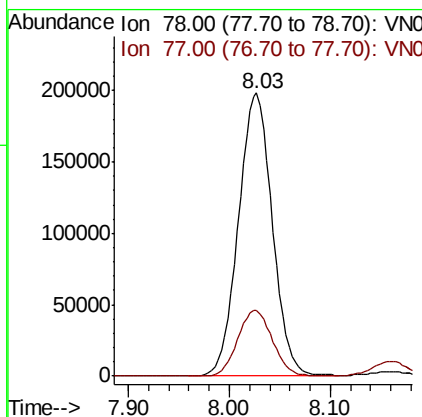
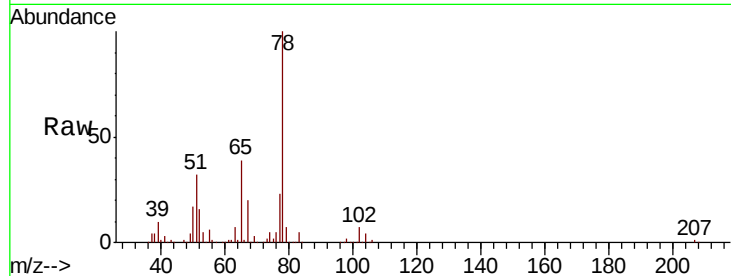
77 23.3 18.9 28.3

Manual Integrations

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#50

Toluene-d8

Concen: 52.481 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058659.D

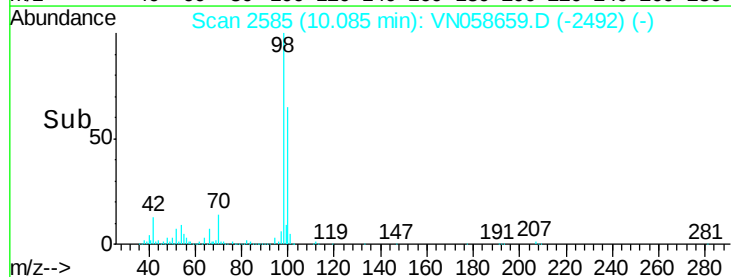
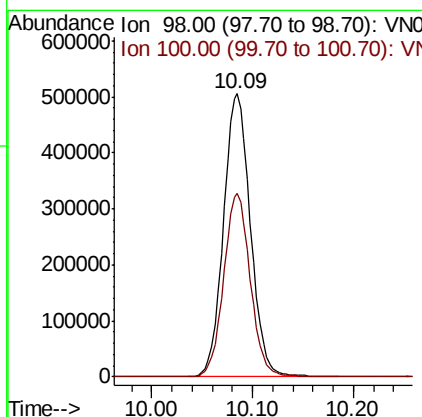
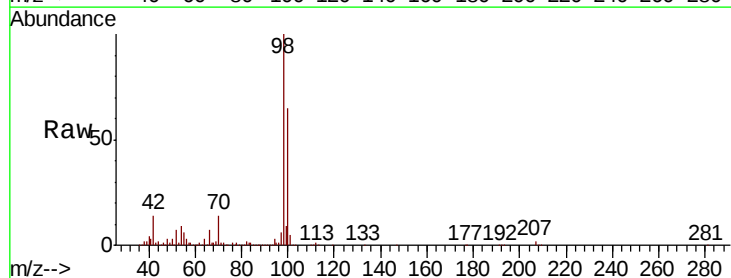
Acq: 9 Oct 2019 22:28

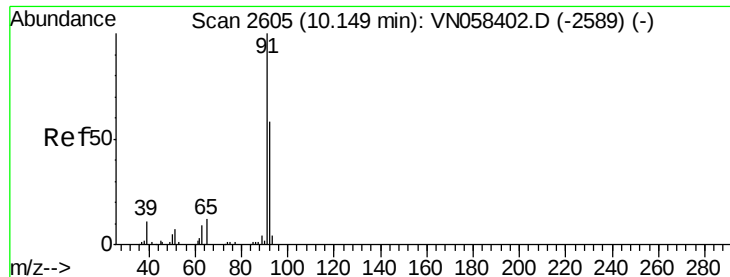
Tgt Ion: 98 Resp: 938652

Ion Ratio Lower Upper

98 100

100 64.3 51.0 76.6





#52

Toluene

Concen: 8.450 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion: 92 Resp: 108895

Ion Ratio Lower Upper

92 100

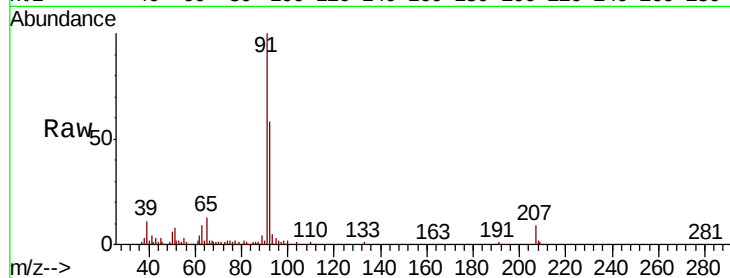
91 174.2 140.2 210.4

Manual Integrations

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10/10/2019 3:19:50 PM



Abundance Ion 92.00 (91.70 to 92.70): VN058402.D (-2589) (-)

Ion 91.00 (90.70 to 91.70): VN058402.D (-2589) (-)

120000

100000

80000

60000

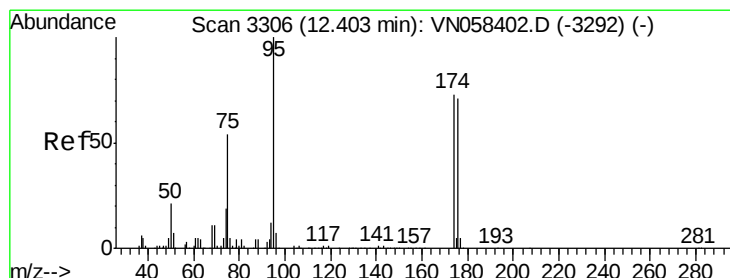
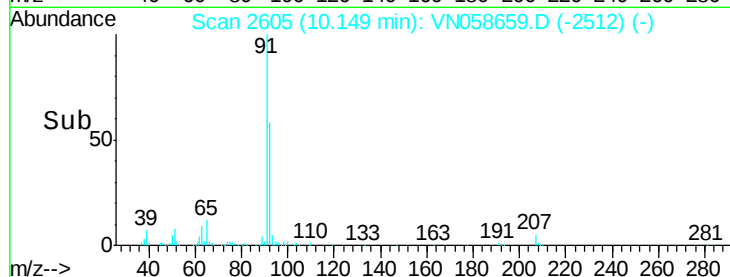
40000

20000

0

10.10 10.15 10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 50.199 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

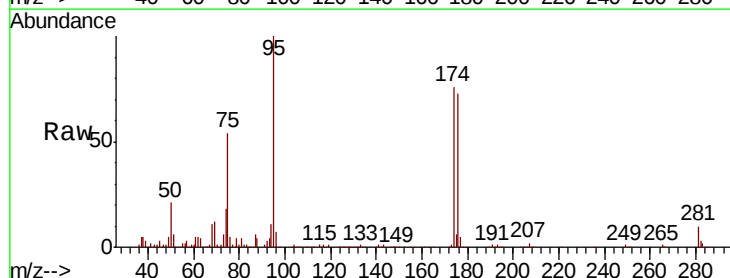
Tgt Ion: 95 Resp: 324635

Ion Ratio Lower Upper

95 100

174 76.0 0.0 150.6

176 74.5 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

250000

200000

150000

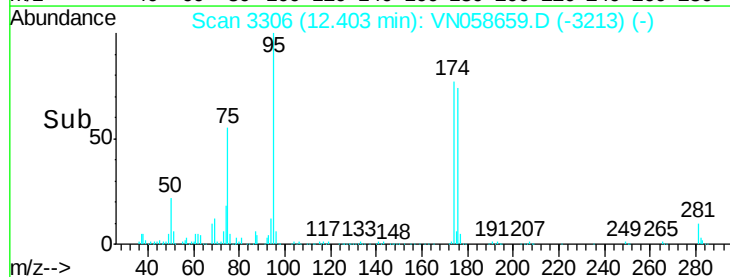
100000

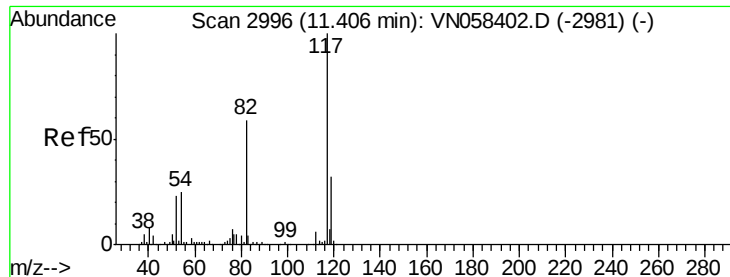
50000

0

12.35 12.40 12.45

Time-->





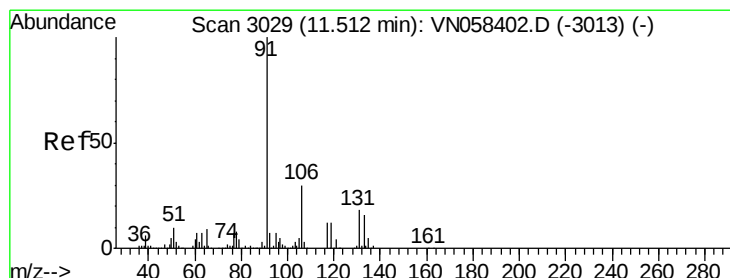
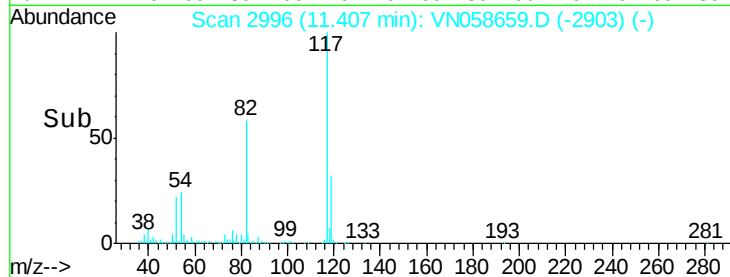
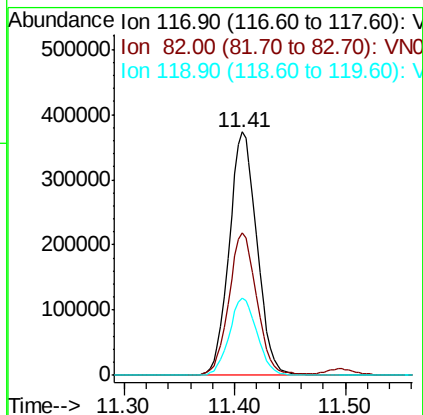
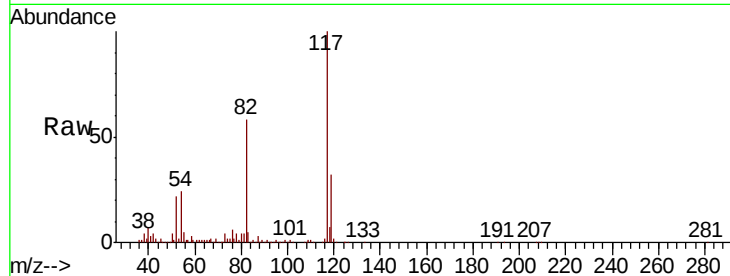
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058659.D
Acq: 9 Oct 2019 22:28

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.4	71.0
119	31.9	25.5	38.3

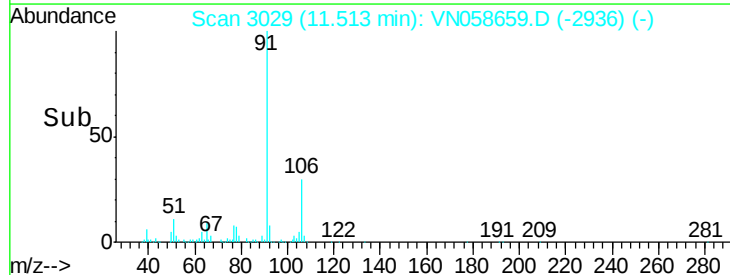
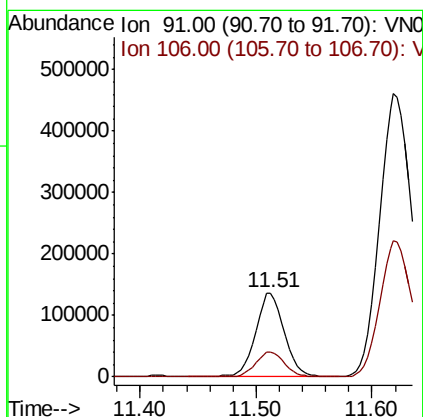
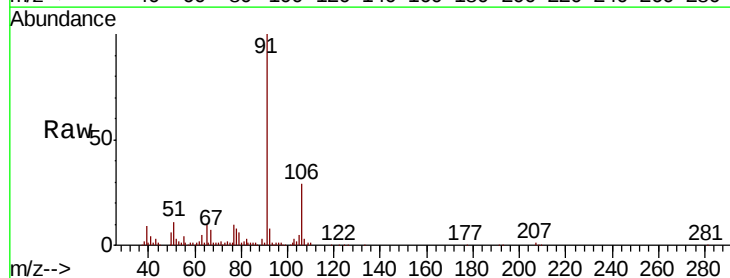
Manual Integrations
APPROVED

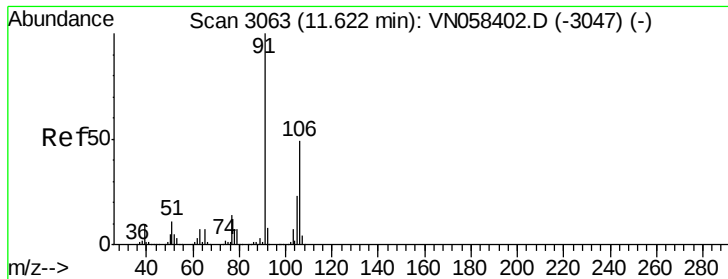
MMDadoda
10/10/2019 3:19:50 PM



#67
Ethyl Benzene
Concen: 9.955 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058659.D
Acq: 9 Oct 2019 22:28

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.3	36.5





#68

m/p-Xylenes

Concen: 48.844 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion:106 Resp: 430416

Ion Ratio Lower Upper

106 100

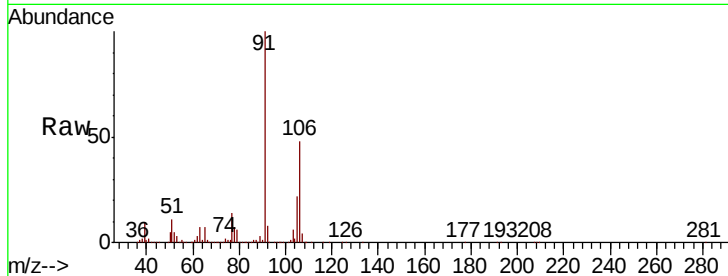
91 209.1 165.0 247.4

Manual Integrations

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

500000

400000

300000

200000

100000

0

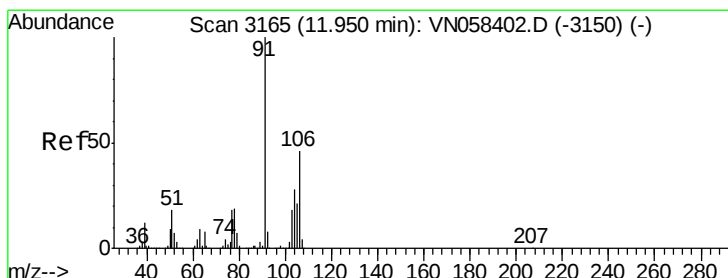
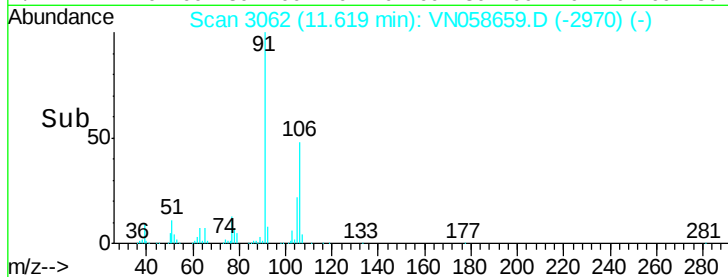
11.62

11.50

11.60

11.70

Time-->



#69

o-Xylene

Concen: 1.597 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN058659.D

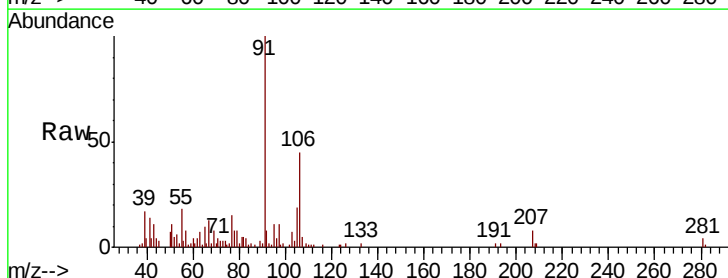
Acq: 9 Oct 2019 22:28

Tgt Ion:106 Resp: 13549

Ion Ratio Lower Upper

106 100

91 232.7 109.1 327.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

20000

15000

10000

5000

0

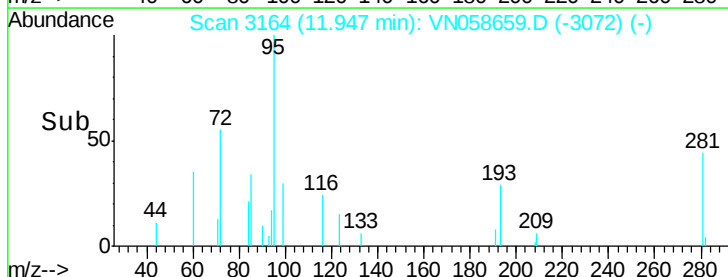
11.95

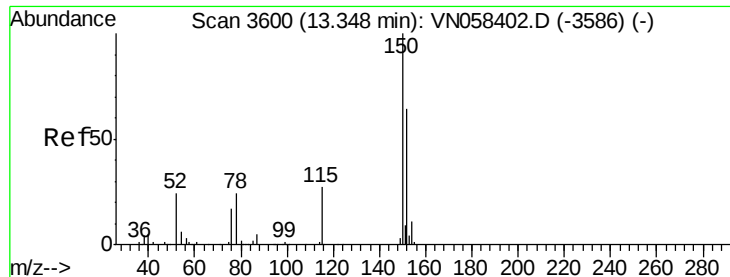
11.90

11.95

12.00

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion:152 Resp: 287778

Ion Ratio Lower Upper

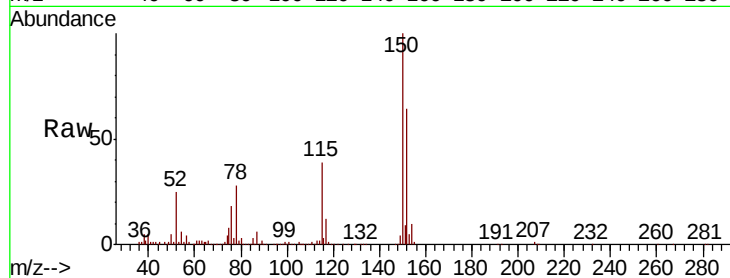
152 100

115 62.3 30.0 90.0

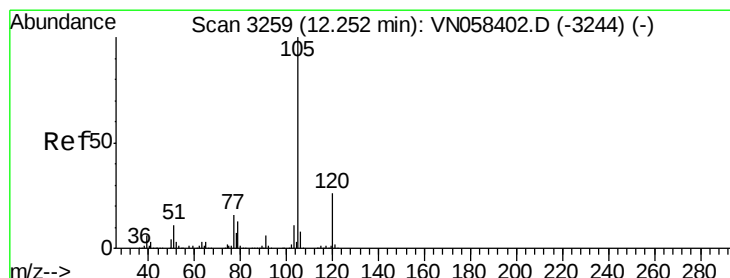
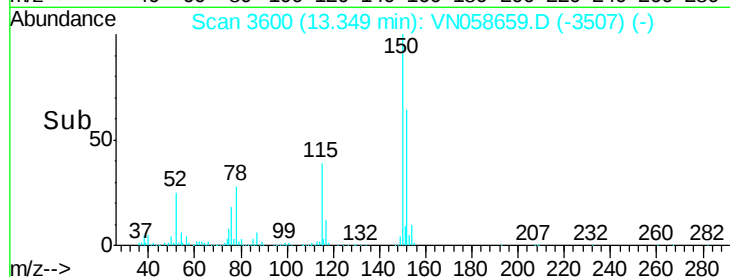
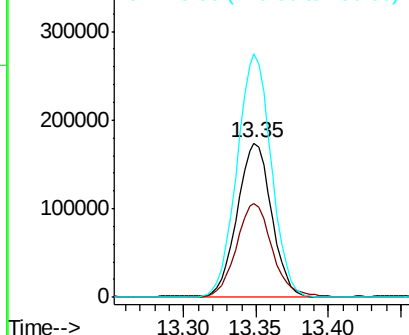
150 156.7 0.0 348.2

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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: 115.123 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058659.D

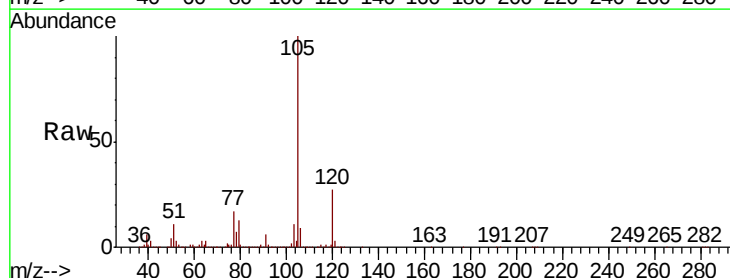
Acq: 9 Oct 2019 22:28

Tgt Ion:105 Resp: 2448372

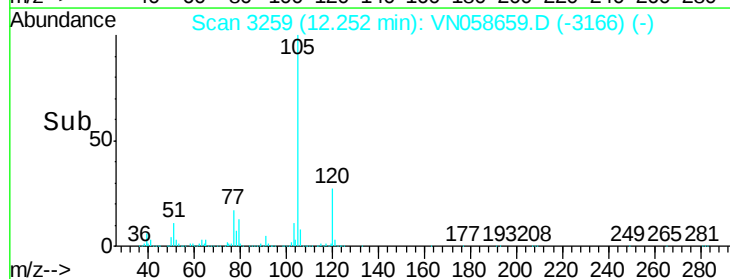
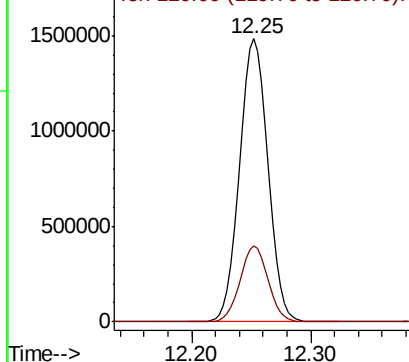
Ion Ratio Lower Upper

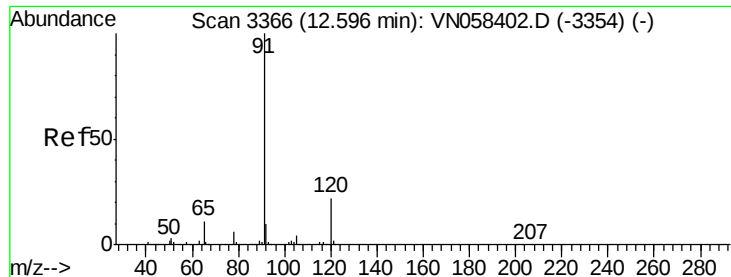
105 100

120 26.4 12.8 38.4



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





#78

n-propylbenzene

Concen: 84.905 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion: 91 Resp: 2034324

Ion Ratio Lower Upper

91 100

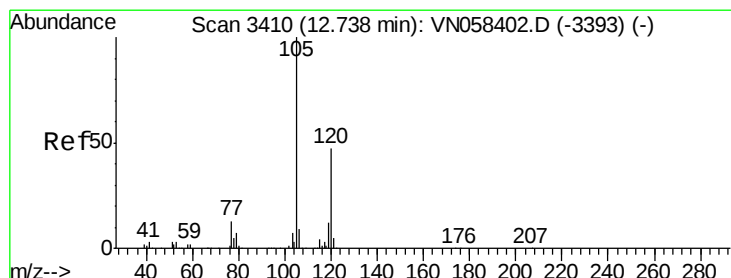
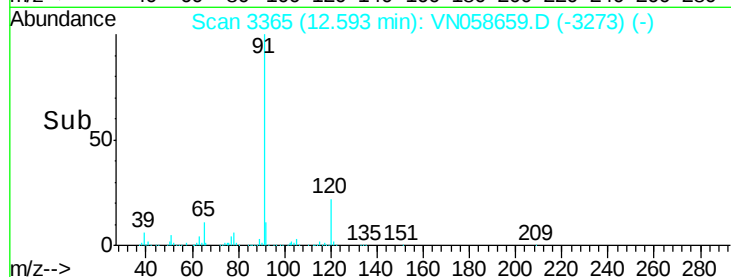
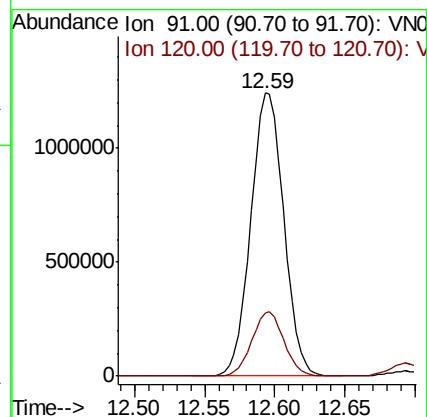
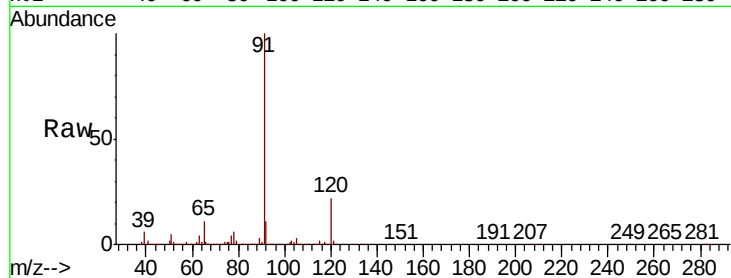
120 22.2 10.9 32.9

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 1.554 ug/l m

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058659.D

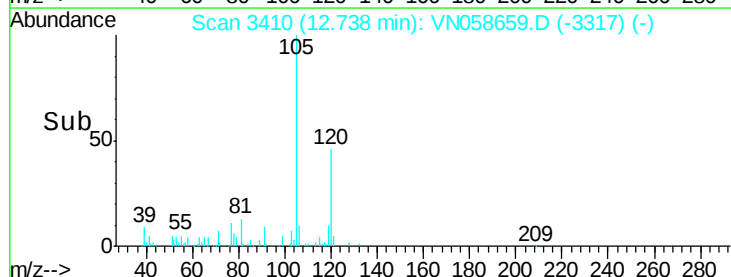
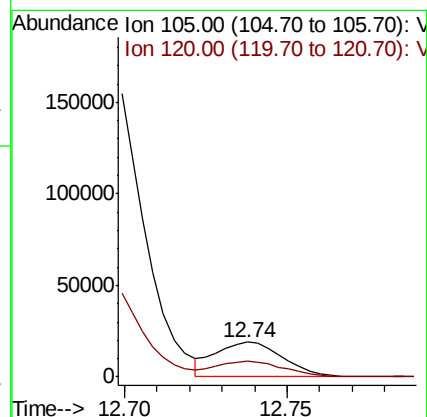
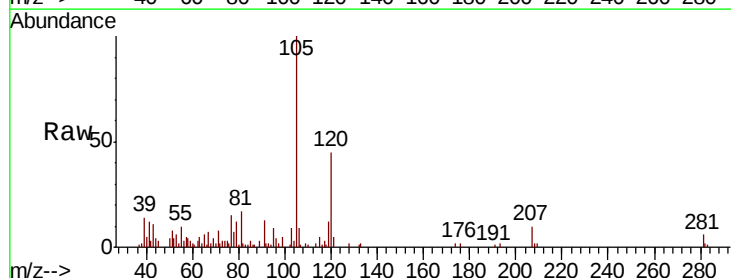
Acq: 9 Oct 2019 22:28

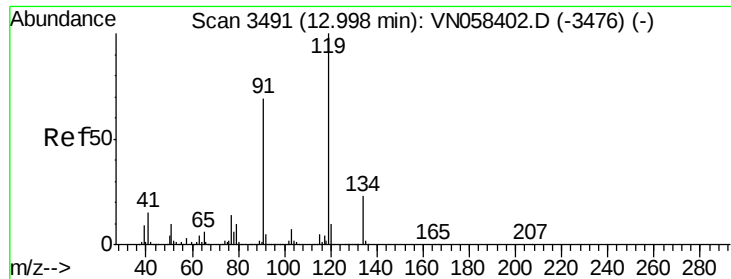
Tgt Ion: 105 Resp: 27668

Ion Ratio Lower Upper

105 100

120 327.7 23.5 70.6#





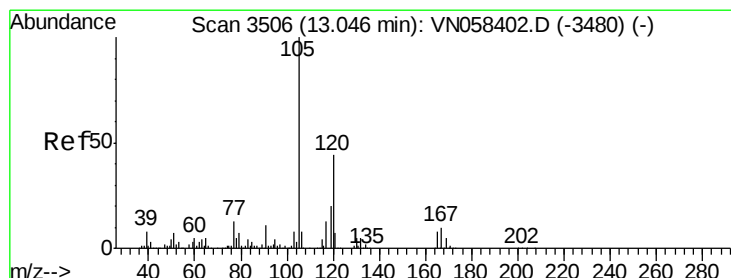
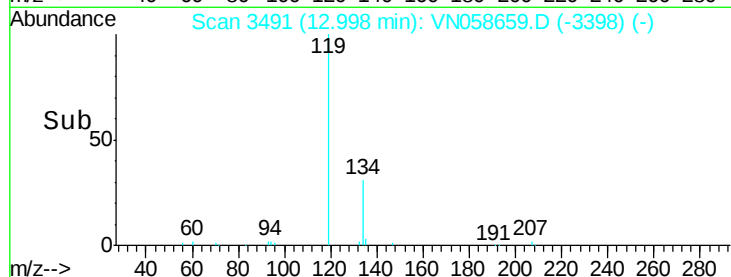
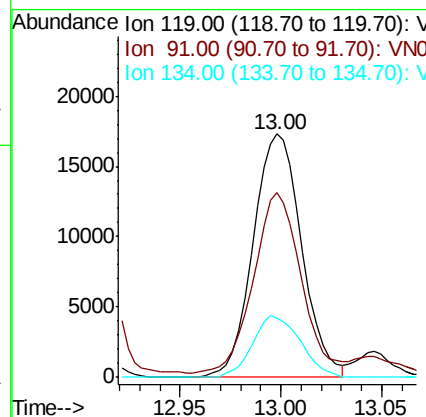
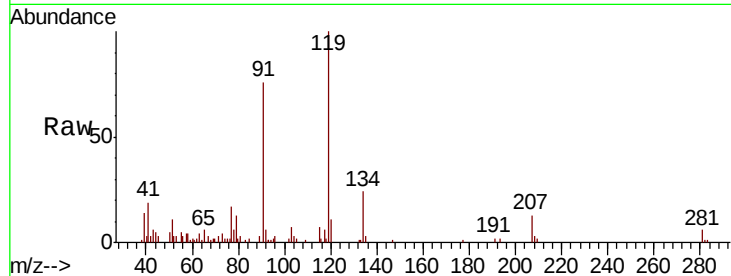
#83
tert-Butylbenzene
Concen: 1.933 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058659.D
Acq: 9 Oct 2019 22:28

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
119	100		
91	73.2	34.2	102.6
134	24.9	11.6	34.8

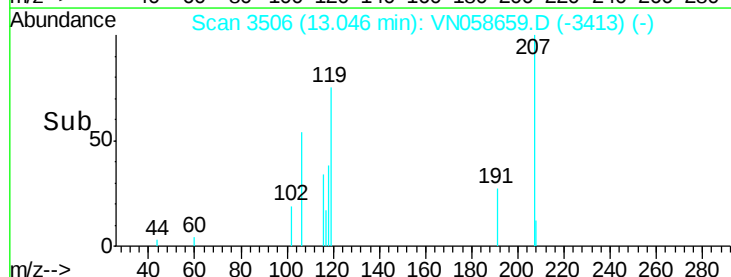
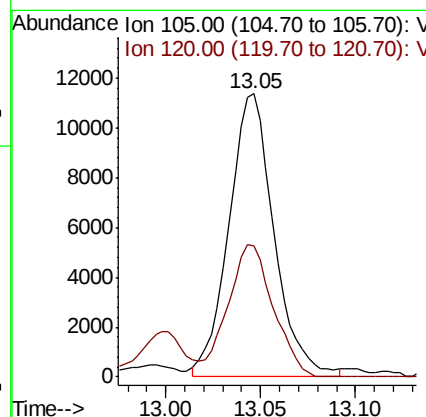
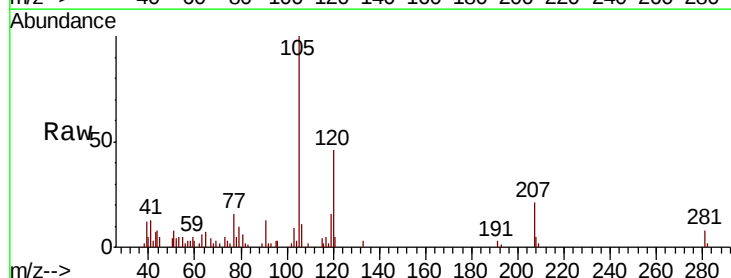
Manual Integrations
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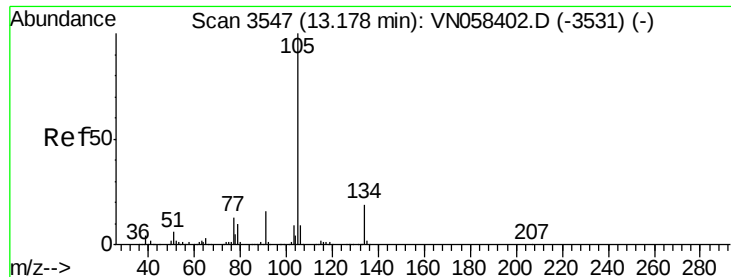
MMDadoda
10/10/2019 3:19:50 PM



#84
1,2,4-Trimethylbenzene
Concen: 1.057 ug/l m
RT: 13.05 min Scan# 3506
Delta R.T. 0.00 min
Lab File: VN058659.D
Acq: 9 Oct 2019 22:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	1232.0	21.7	65.1#





#85

sec-Butylbenzene

Concen: 5.755 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

Instrument :

MSVOA_N

ClientSampled :

MW-2

Tot Ion:105 Resp: 113791

Ion Ratio Lower Upper

105 100

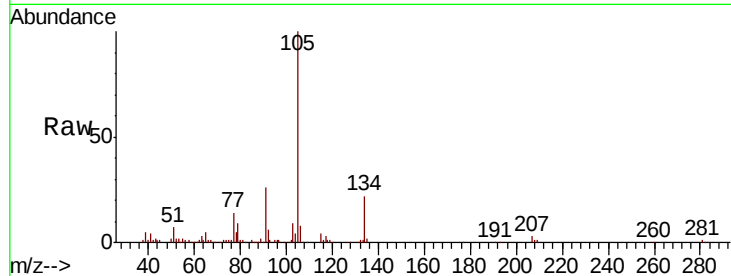
134 34.9 9.4 28.2#

Manual Integrations

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10/10/2019 3:19:50 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.18

80000

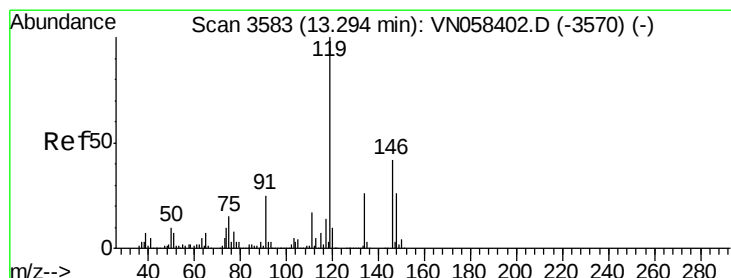
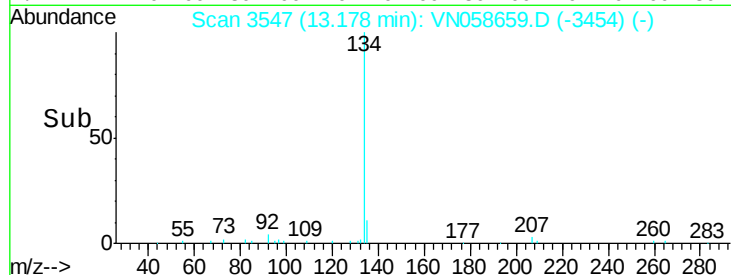
60000

40000

20000

0

Time-->



#86

p-Isopropyltoluene

Concen: 2.131 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058659.D

Acq: 9 Oct 2019 22:28

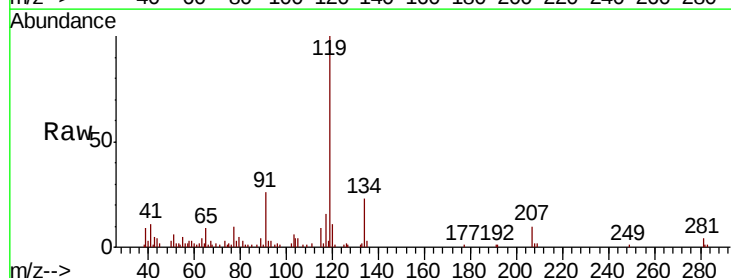
Tgt Ion:119 Resp: 37089

Ion Ratio Lower Upper

119 100

134 24.9 13.0 39.0

91 0.0 12.4 37.0#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

50000

40000

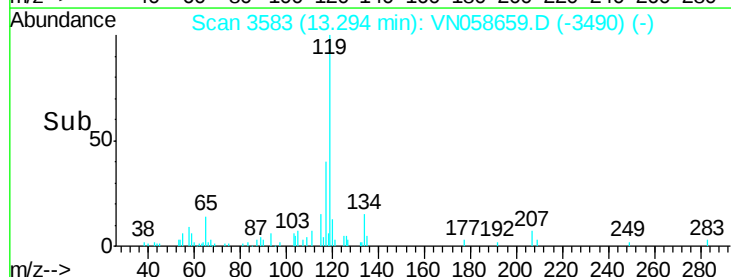
30000

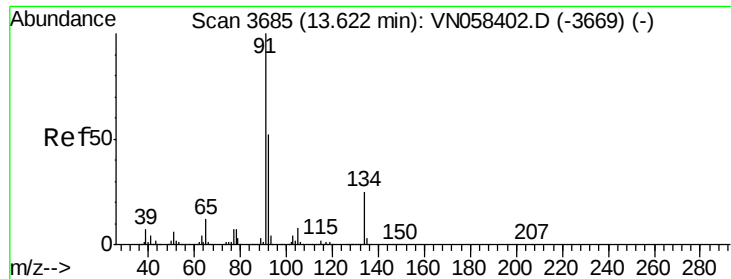
20000

10000

0

Time-->





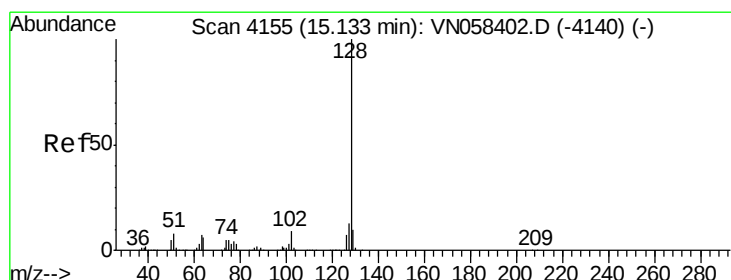
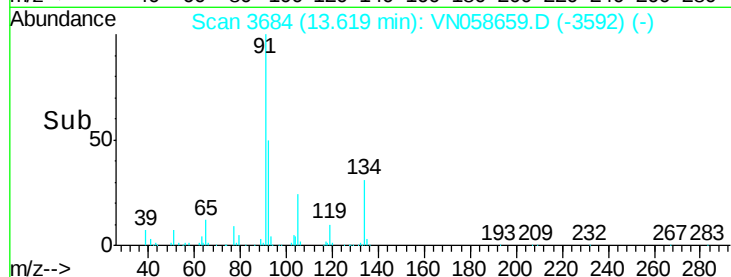
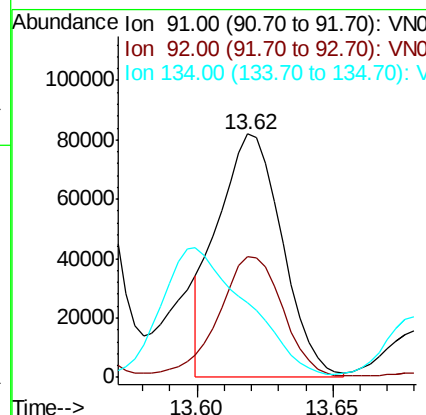
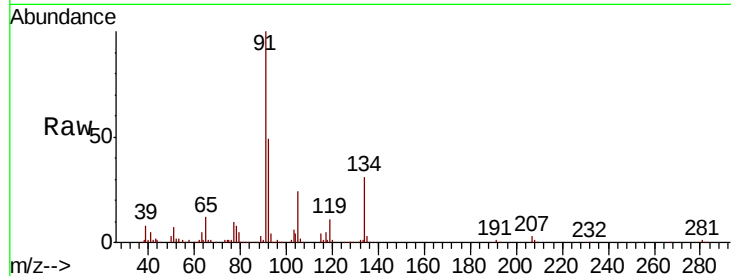
#89
n-Butylbenzene
Concen: 8.590 ug/l m
RT: 13.62 min Scan# 3684
Delta R.T. -0.00 min
Lab File: VN058659.D
Acq: 9 Oct 2019 22:28

Instrument :
MSVOA_N
ClientSampleId :
MW-2

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.1	25.7	77.1
134	68.0	12.2	36.6

Manual Integrations
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#95
Naphthalene
Concen: 44.042 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058659.D
Acq: 9 Oct 2019 22:28

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.6	8.3	12.5

