

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
 Data File : VN054312.D
 Acq On : 15 Mar 2019 16:25
 Operator : JC/SP
 Sample : K1894-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RFK-RMAB-MW06-GW

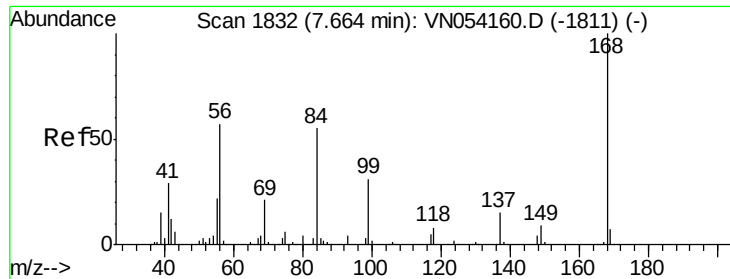
Manual Integrations
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 3/16/2019 11:09:09 AM

Quant Time: Mar 16 04:02:09 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	1362398	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2223701	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2349416	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1057284	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	708809	48.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.98%	
35) Dibromofluoromethane	7.59	113	685208	47.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.56%	
50) Toluene-d8	10.09	98	2785325	52.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.18%	
62) 4-Bromofluorobenzene	12.40	95	1070119	57.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.48%	
Target Compounds						
					Qvalue	
31) Cyclohexane	7.65	56	137438	5.217	ug/l #	93
39) Methylcyclohexane	9.08	83	105383	4.183	ug/l #	87
40) Benzene	8.04	78	1065878	18.189	ug/l	100
52) Toluene	10.16	92	19361	0.521	ug/l	98
67) Ethyl Benzene	11.51	91	58378	0.683	ug/l	98
68) m/p-Xylenes	11.62	106	45349	1.357	ug/l	94
69) o-Xylene	11.95	106	13171	0.404	ug/l	90
73) Isopropylbenzene	12.25	105	2514059	29.721	ug/l	100
78) n-propylbenzene	12.59	91	2223467	24.225	ug/l	100
83) tert-Butylbenzene	12.99	119	28865	0.446	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	35075	0.508	ug/l	97
85) sec-Butylbenzene	13.17	105	378492	4.506	ug/l #	59
95) Naphthalene	15.13	128	1589783	35.373	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054312.D

Acq: 15 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW06-GW

Tgt Ion:168 Resp: 1362398

Ion Ratio Lower Upper

168 100

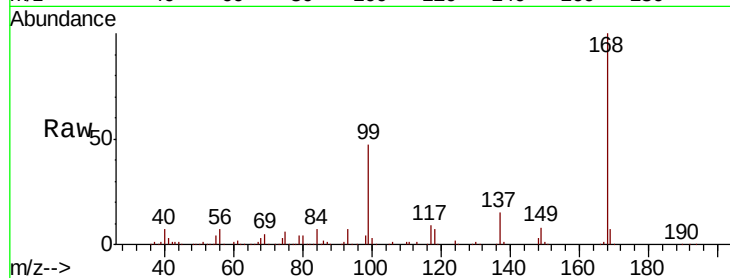
99 46.5 37.1 55.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

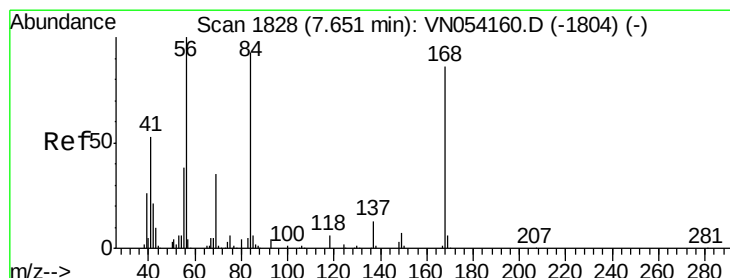
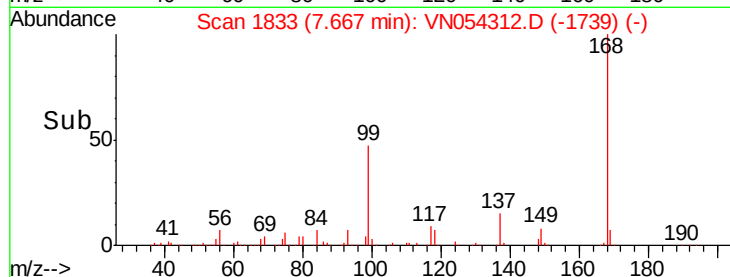
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#31

Cyclohexane

Concen: 5.217 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054312.D

Acq: 15 Mar 2019 16:25

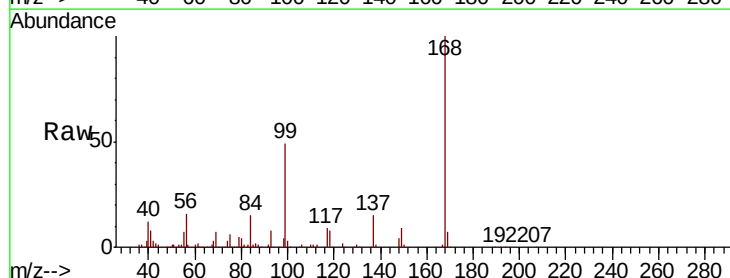
Tgt Ion: 56 Resp: 137438

Ion Ratio Lower Upper

56 100

69 46.3 27.8 41.6#

84 94.8 74.6 111.8



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 69.00 (68.70 to 69.70): VN

Ion 84.00 (83.70 to 84.70): VN

250000

200000

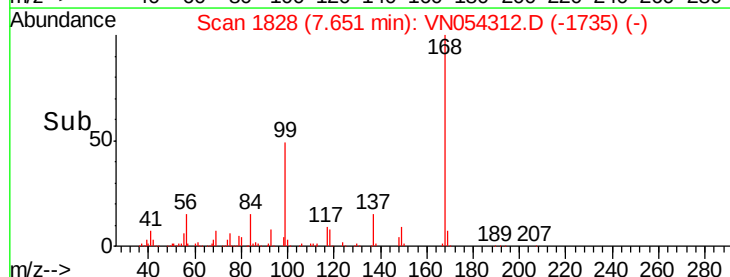
150000

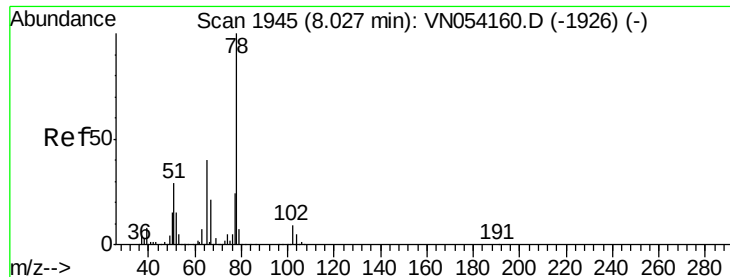
100000

50000

0

Time--> 7.55 7.60 7.65 7.70





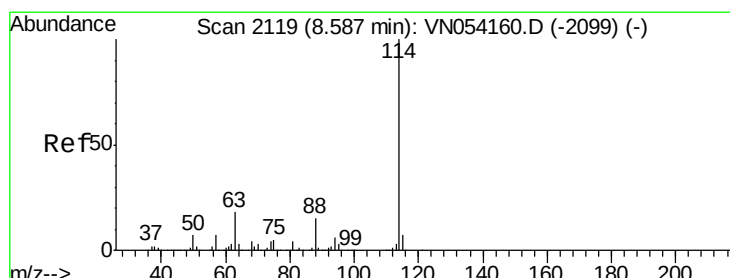
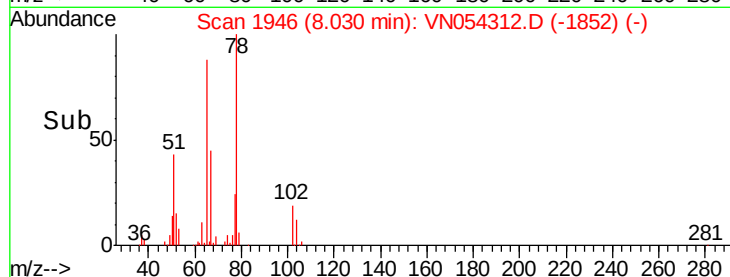
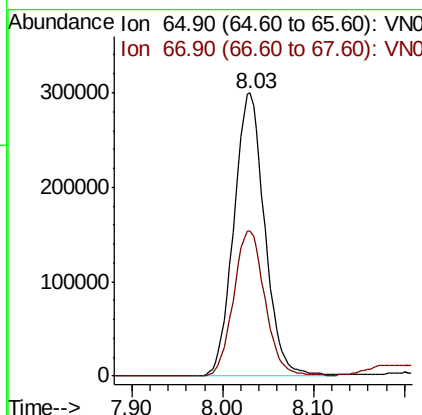
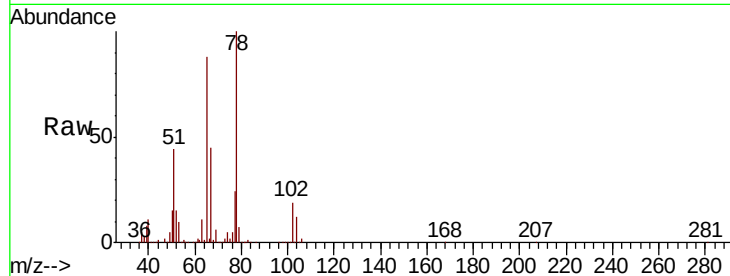
#33
 1,2-Dichloroethane-d4
 Concen: 48.989 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054312.D
 Acq: 15 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 RFK-RMAB-MW06-GW

Tgt Ion: 65 Resp: 708809
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.6

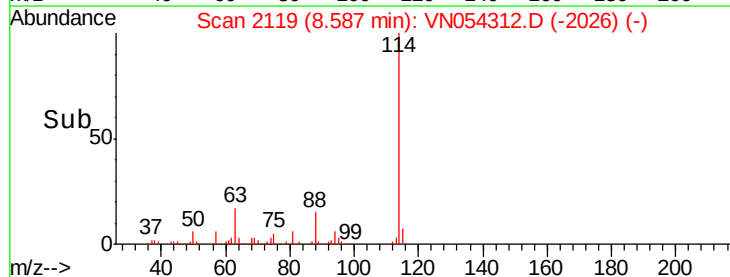
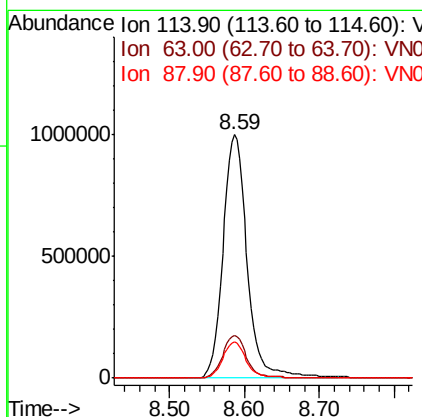
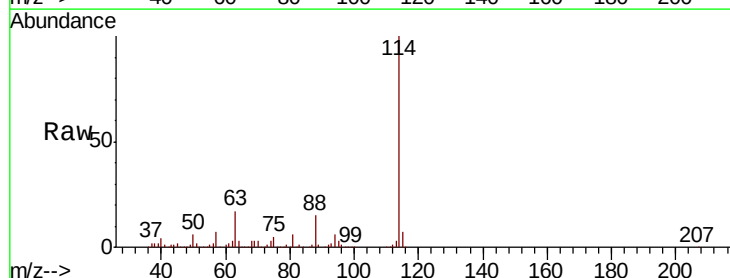
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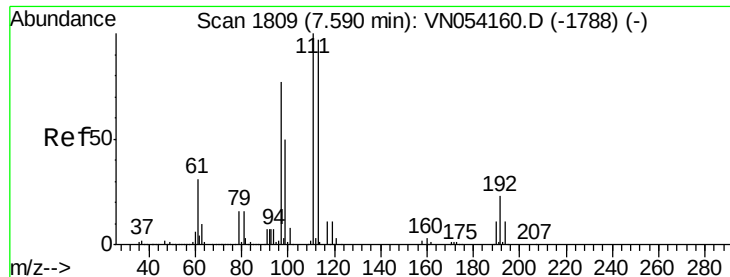
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054312.D
 Acq: 15 Mar 2019 16:25

Tgt Ion: 114 Resp: 2223701
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 35.2
 88 14.7 0.0 30.2





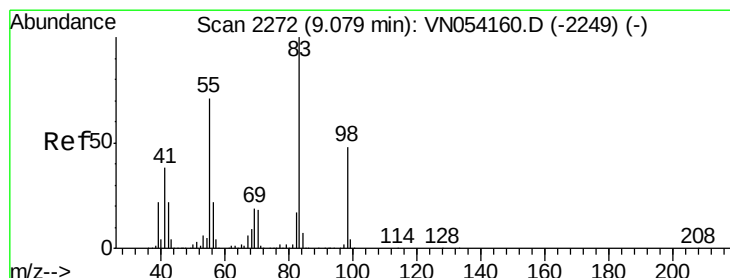
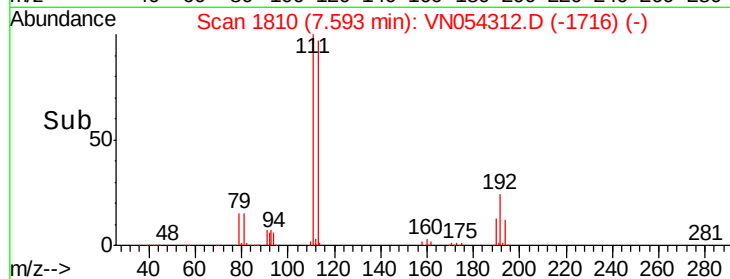
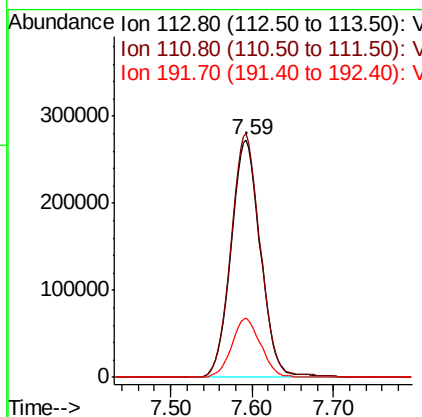
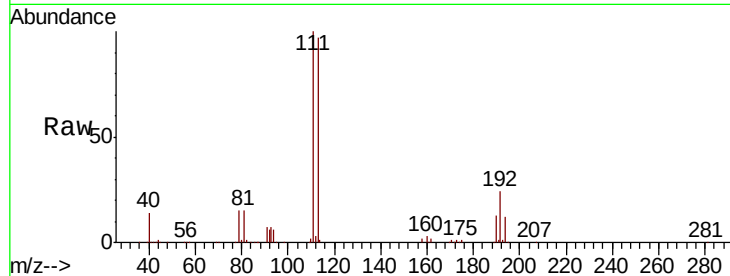
#35
Dibromofluoromethane
Concen: 47.776 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN054312.D
Acq: 15 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
RFK-RMAB-MW06-GW

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	685208		
111	101.7	82.2	123.4	
192	24.6	19.2	28.8	

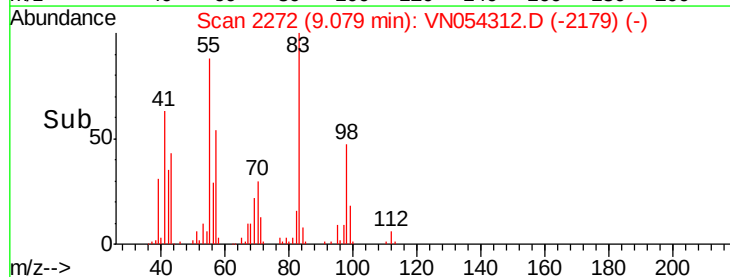
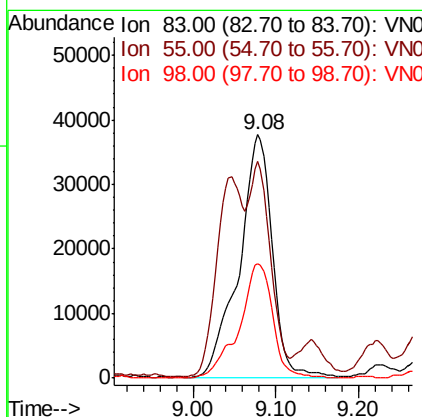
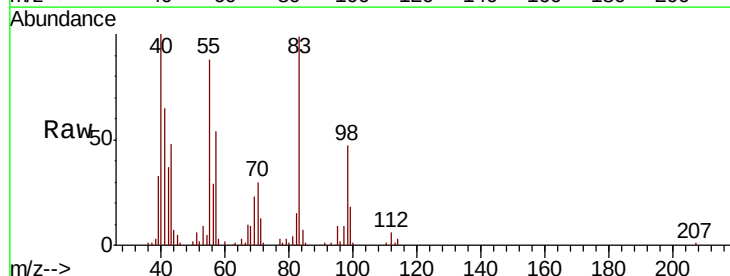
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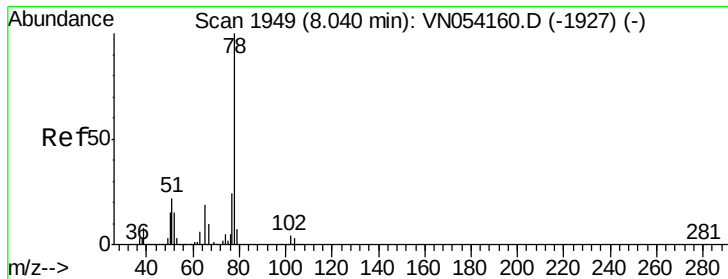
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#39
Methylcyclohexane
Concen: 4.183 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054312.D
Acq: 15 Mar 2019 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	105383		
55	88.2	56.6	84.8#	
98	47.2	38.4	57.6	





#40

Benzene

Concen: 18.189 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN054312.D

Acq: 15 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW06-GW

Tgt Ion: 78 Resp: 1065878

Ion Ratio Lower Upper

78 100

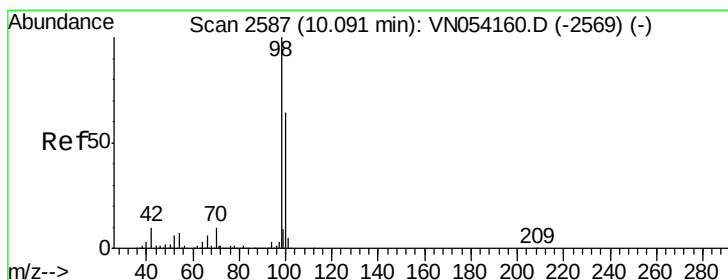
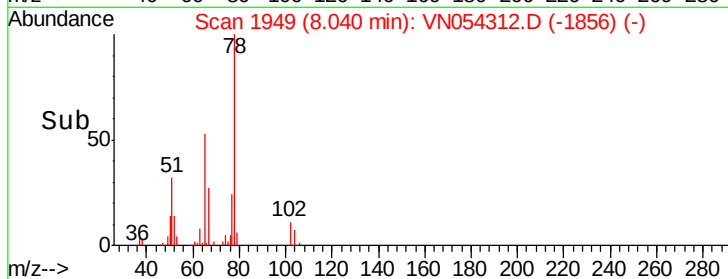
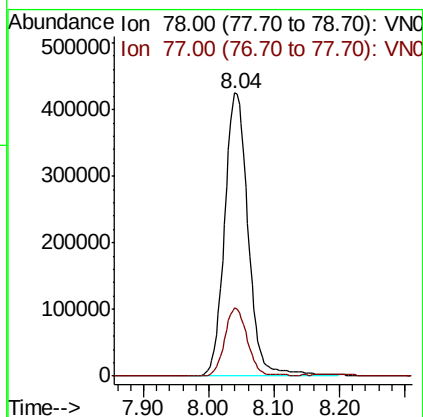
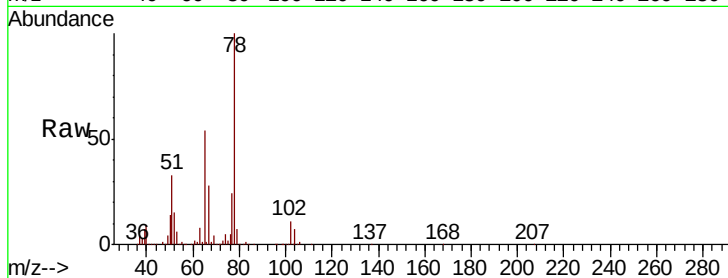
77 24.0 19.1 28.7

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3/16/2019 11:09:09 AM



#50

Toluene-d8

Concen: 52.586 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054312.D

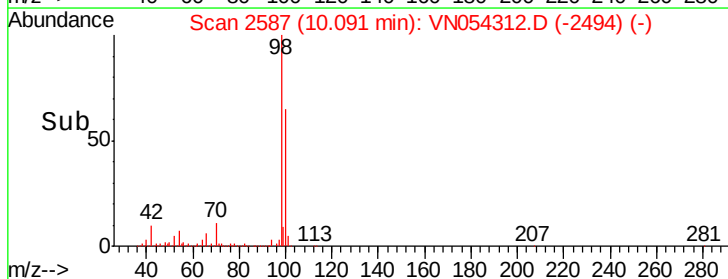
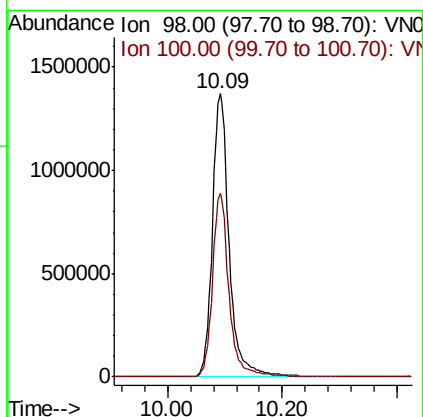
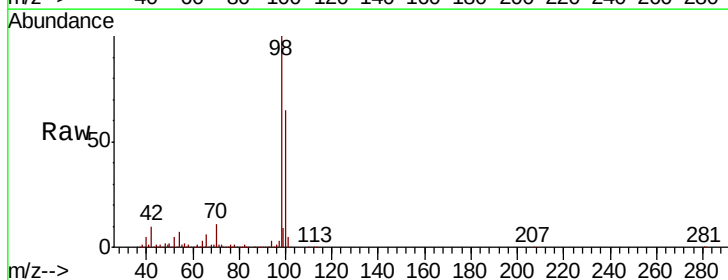
Acq: 15 Mar 2019 16:25

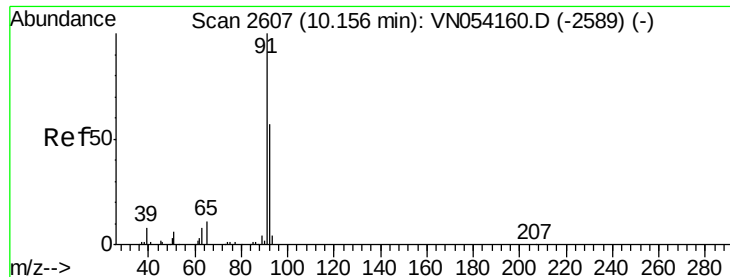
Tgt Ion: 98 Resp: 2785325

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8





#52

Toluene

Concen: 0.521 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054312.D

Acq: 15 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW06-GW

Tgt Ion: 92 Resp: 19361

Ion Ratio Lower Upper

92 100

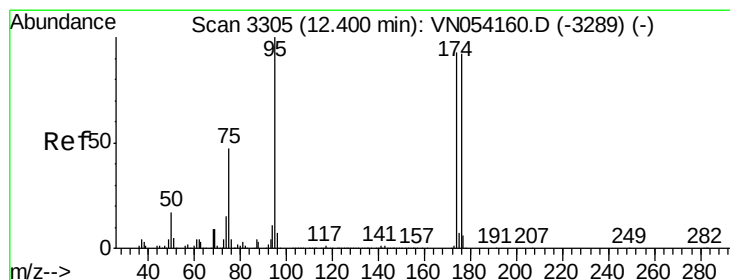
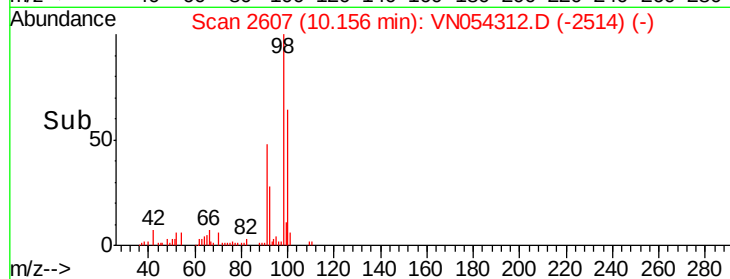
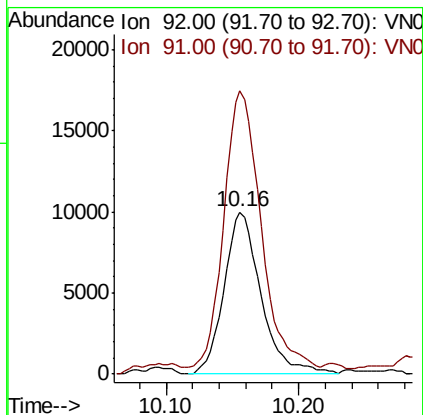
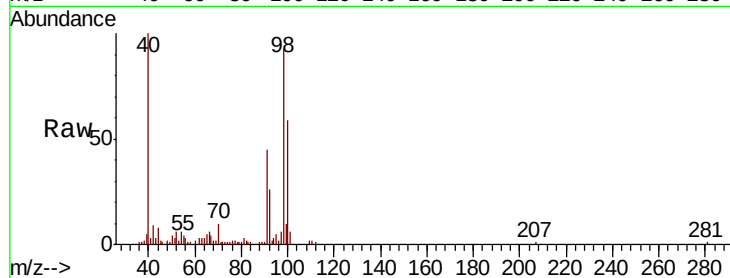
91 173.2 140.7 211.1

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 57.741 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054312.D

Acq: 15 Mar 2019 16:25

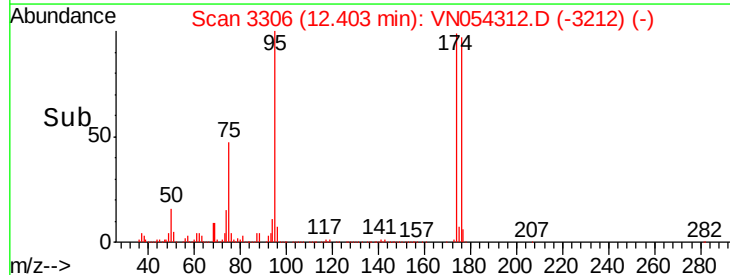
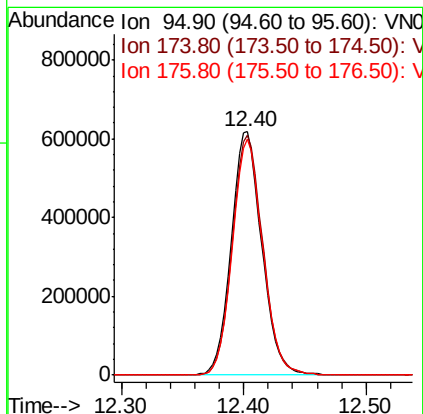
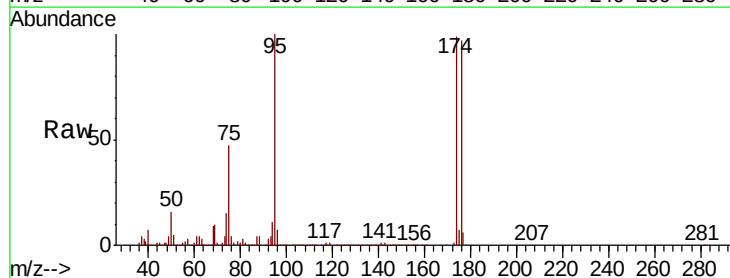
Tgt Ion: 95 Resp: 1070119

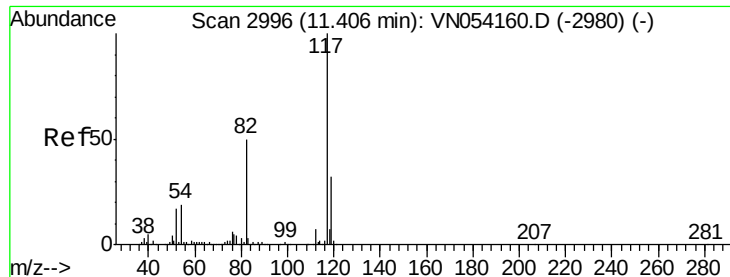
Ion Ratio Lower Upper

95 100

174 99.0 0.0 191.0

176 96.4 0.0 187.4





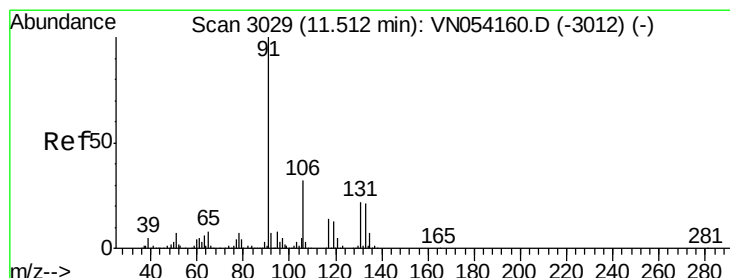
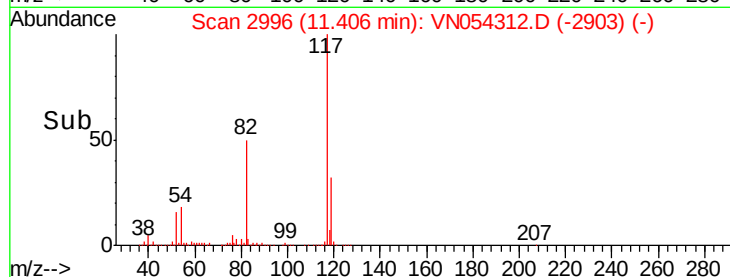
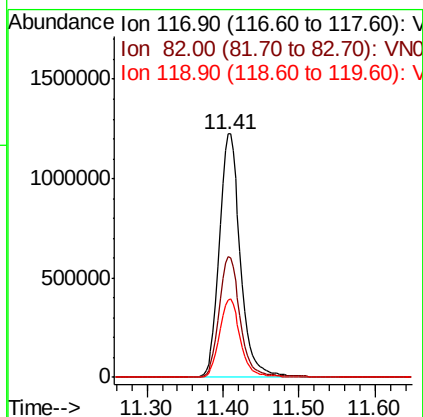
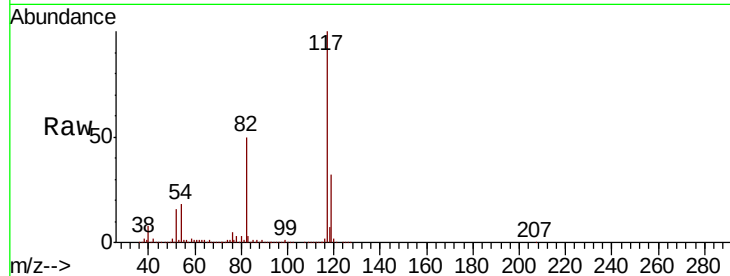
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054312.D
Acq: 15 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
RFK-RMAB-MW06-GW

Tgt Ion: 117 Resp: 2349416
Ion Ratio Lower Upper
117 100
82 49.8 40.0 60.0
119 31.9 25.8 38.6

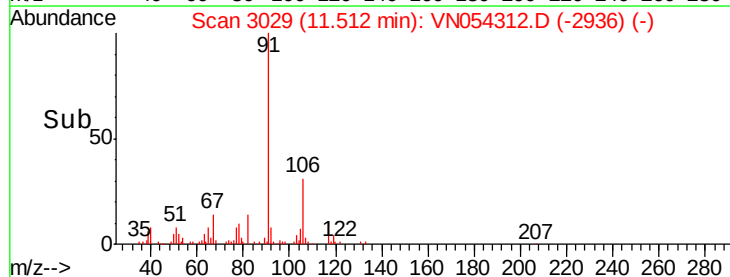
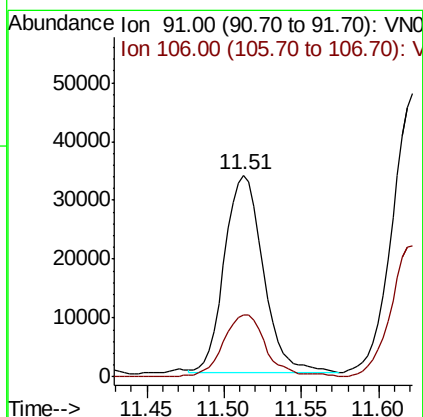
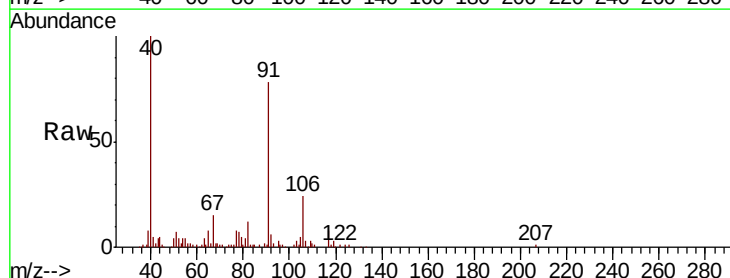
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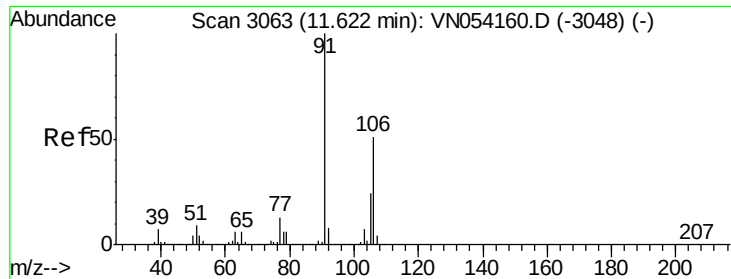
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3/16/2019 11:09:09 AM



#67
Ethyl Benzene
Concen: 0.683 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054312.D
Acq: 15 Mar 2019 16:25

Tgt Ion: 91 Resp: 58378
Ion Ratio Lower Upper
91 100
106 31.0 25.5 38.3





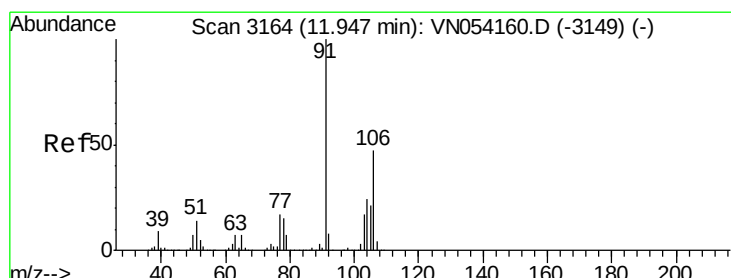
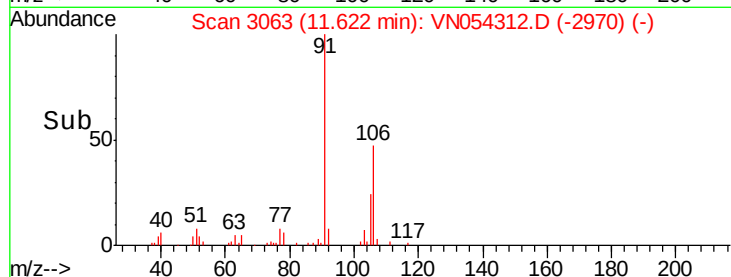
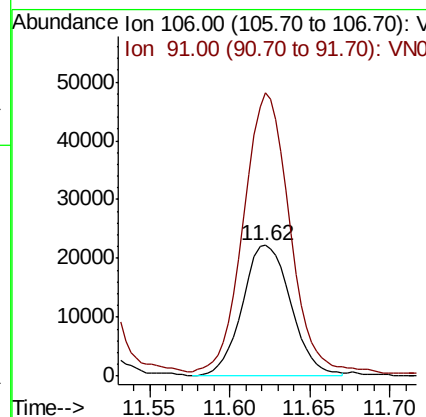
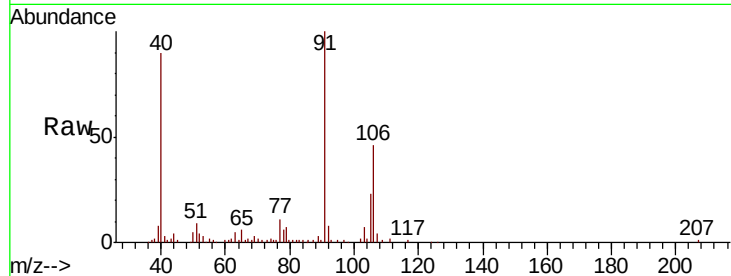
#68
m/p-Xylenes
Concen: 1.357 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054312.D
Acq: 15 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
RFK-RMAB-MW06-GW

Tgt Ion:106 Resp: 45349
Ion Ratio Lower Upper
106 100
91 208.8 159.4 239.2

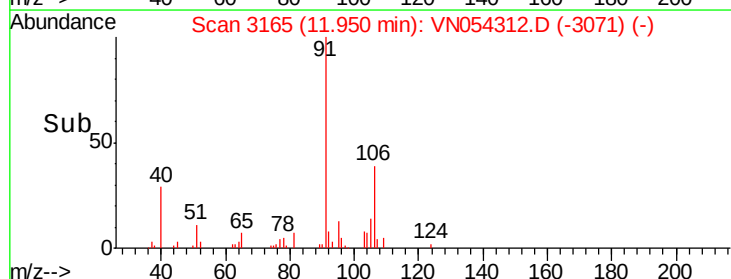
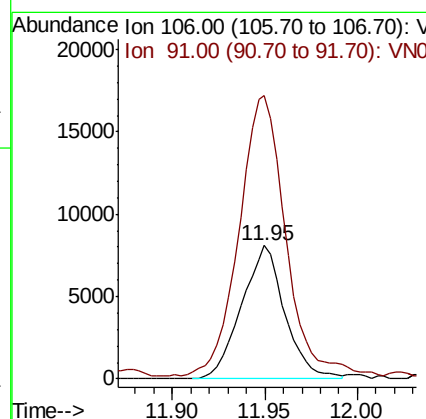
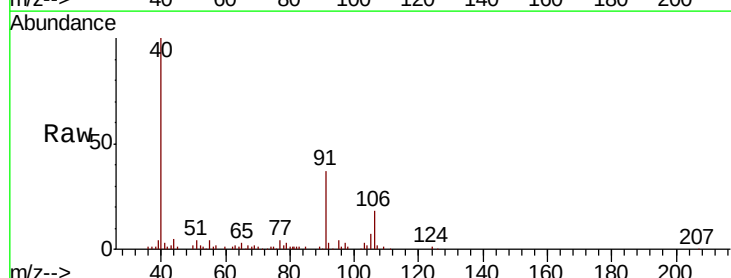
Manual Integrations
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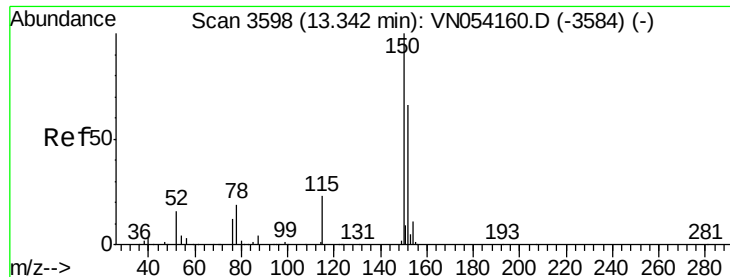
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#69
o-Xylene
Concen: 0.404 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN054312.D
Acq: 15 Mar 2019 16:25

Tgt Ion:106 Resp: 13171
Ion Ratio Lower Upper
106 100
91 226.7 105.7 317.1





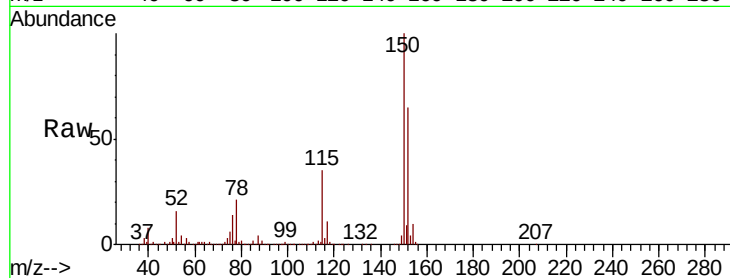
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. 0.00 min
 Lab File: VN054312.D
 Acq: 15 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 RFK-RMAB-MW06-GW

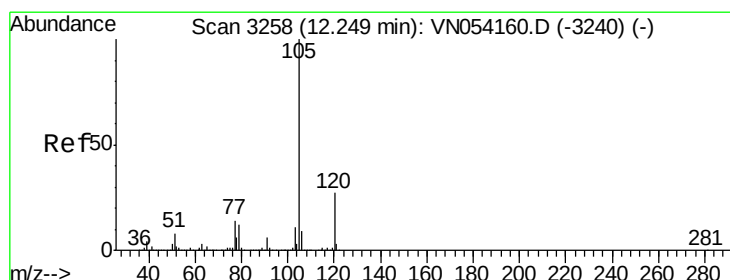
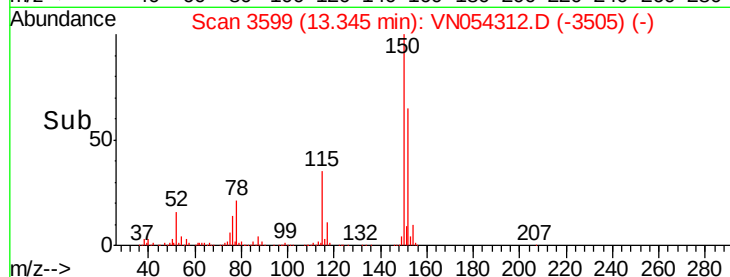
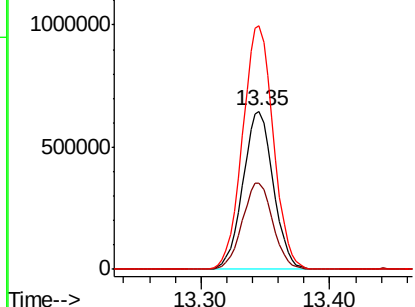
Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	27.2	81.6
150	156.2	0.0	349.2

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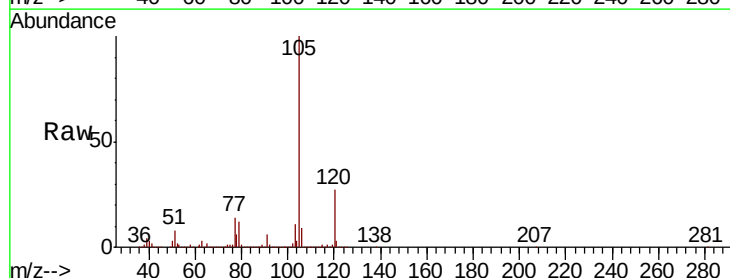


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

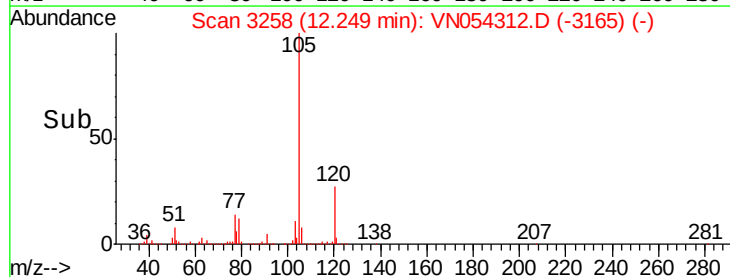
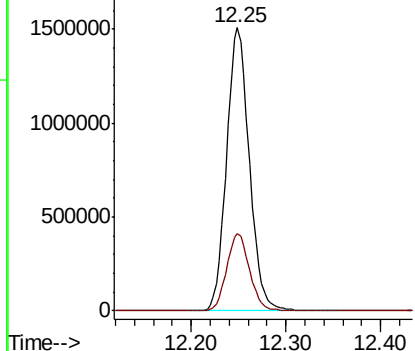


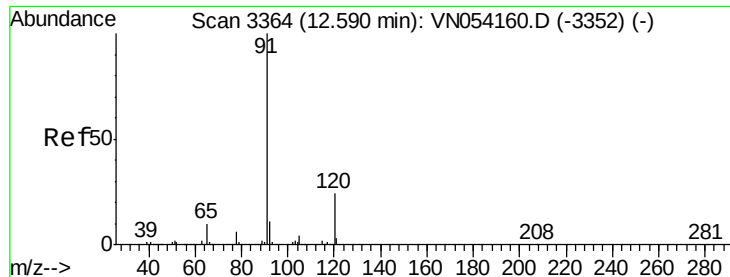
#73
 Isopropylbenzene
 Concen: 29.721 ug/l
 RT: 12.25 min Scan# 3258
 Delta R.T. 0.00 min
 Lab File: VN054312.D
 Acq: 15 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.8	41.3



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





#78

n-propylbenzene

Concen: 24.225 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054312.D

Acq: 15 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW06-GW

Tgt Ion: 91 Resp: 2223467

Ion Ratio Lower Upper

91 100

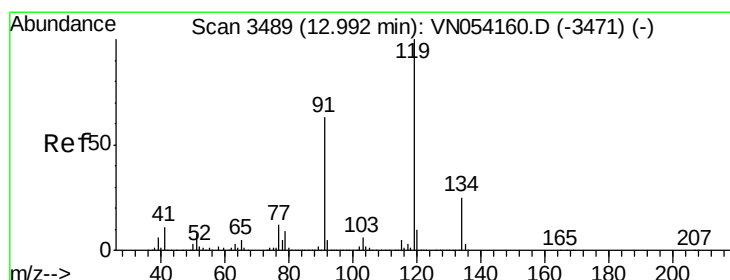
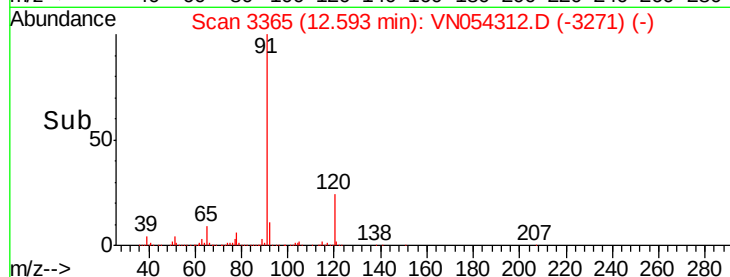
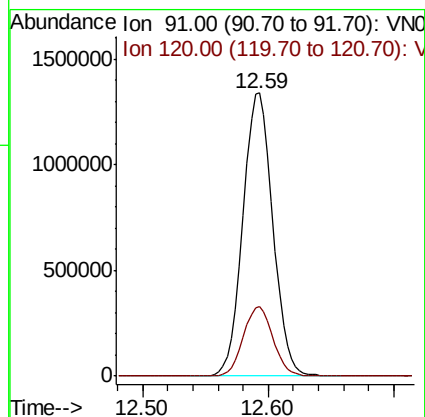
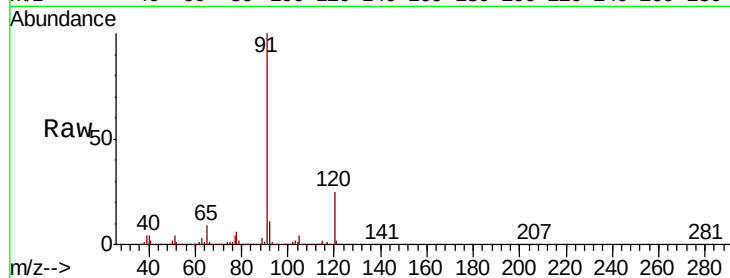
120 24.4 12.3 36.9

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#83

tert-Butylbenzene

Concen: 0.446 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN054312.D

Acq: 15 Mar 2019 16:25

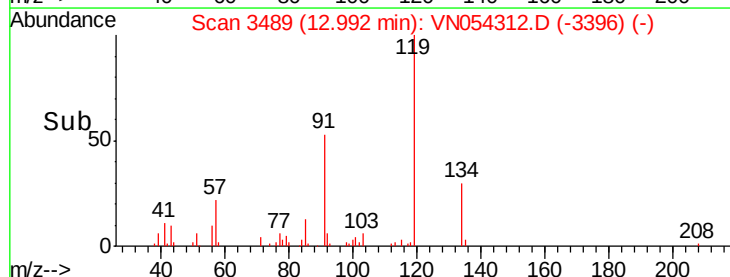
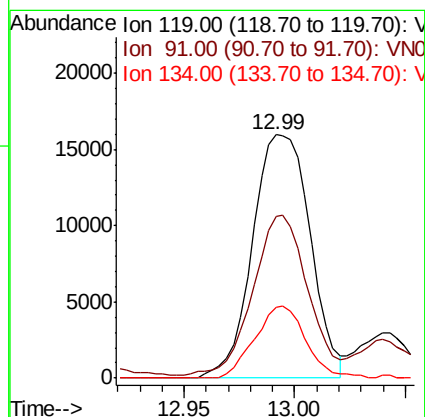
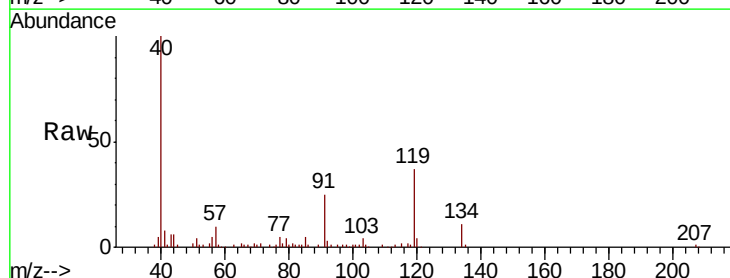
Tgt Ion: 119 Resp: 28865

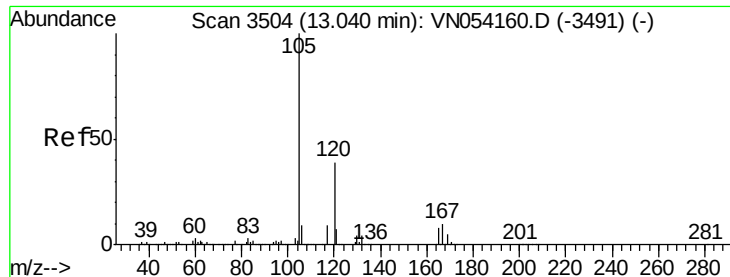
Ion Ratio Lower Upper

119 100

91 62.2 30.9 92.8

134 26.2 13.2 39.6





#84

1,2,4-Trimethylbenzene

Concen: 0.508 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054312.D

Acq: 15 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

RFK-RMAB-MW06-GW

Tgt Ion:105 Resp: 35075

Ion Ratio Lower Upper

105 100

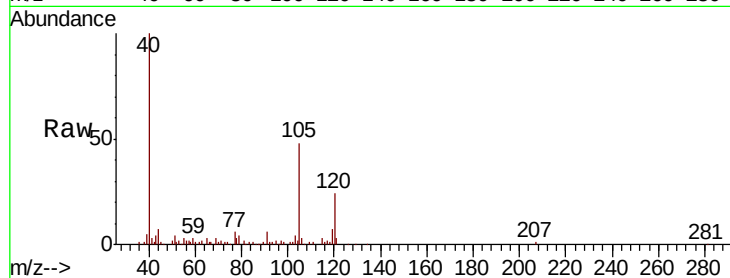
120 48.8 23.4 70.3

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

20000

15000

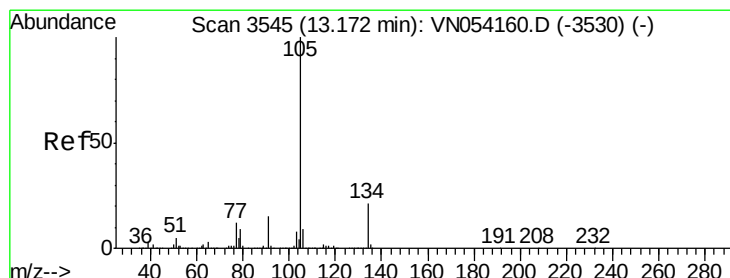
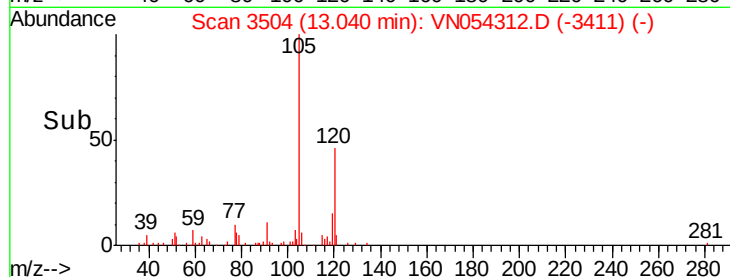
10000

5000

0

13.00 13.05 13.10

Time-->



#85

sec-Butylbenzene

Concen: 4.506 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054312.D

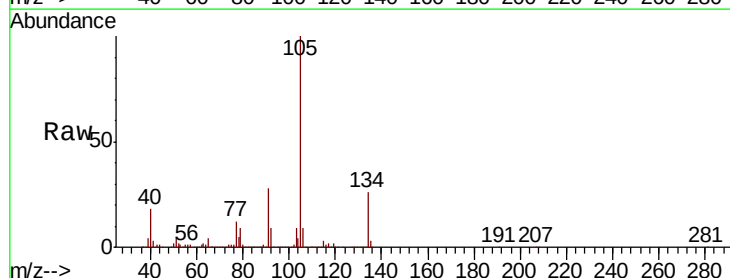
Acq: 15 Mar 2019 16:25

Tgt Ion:105 Resp: 378492

Ion Ratio Lower Upper

105 100

134 40.7 10.7 32.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

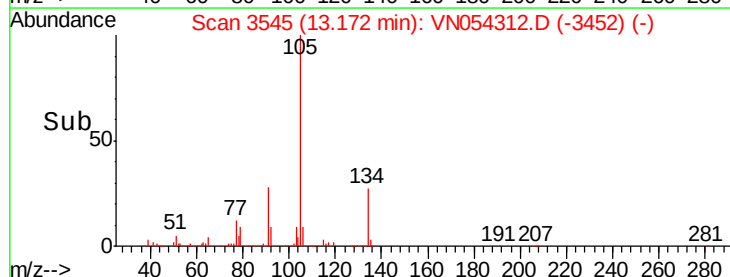
100000

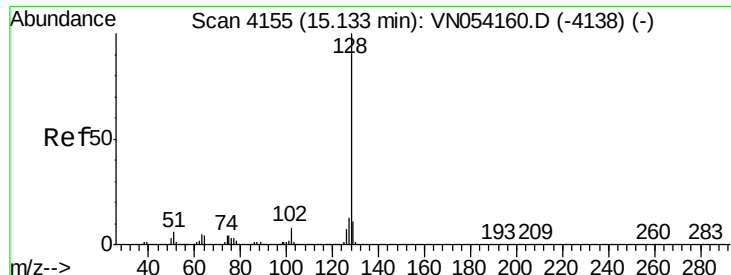
50000

0

13.10 13.20

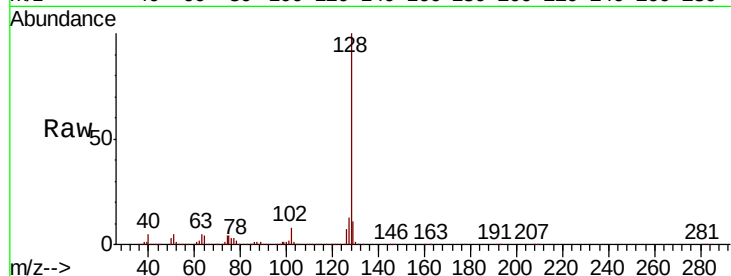
Time-->





#95
Naphthalene
Concen: 35.373 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054312.D
Acq: 15 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
RFK-RMAB-MW06-GW



Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.9	8.7	13.1

Manual Integrations
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