

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090718\
 Data File : VX004416.D
 Acq On : 07 Sep 2018 19:12
 Operator : JC/MD
 Sample : J4812-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-9

Manual Integrations
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MMDadoda
 9/10/2018 11:15:29 AM

Quant Time: Sep 08 04:33:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	320416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	513916	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	499628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	294070	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	201407	48.23	ug/l	0.00
Spiked Amount						
			Recovery	=	96.46%	
35) Dibromofluoromethane	5.50	113	181361	47.44	ug/l	0.00
Spiked Amount						
			Recovery	=	94.88%	
50) Toluene-d8	8.72	98	757479	52.49	ug/l	0.00
Spiked Amount						
			Recovery	=	104.98%	
62) 4-Bromofluorobenzene	11.14	95	282926	52.54	ug/l	0.00
Spiked Amount						
			Recovery	=	105.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.45	43	57267	26.37	ug/l	99
25) 2-Butanone	4.71	43	30988	8.32	ug/l	99
31) Cyclohexane	5.58	56	6821476	1165.04	ug/l	98
39) Methylcyclohexane	7.46	83	4831178	732.40	ug/l	99
40) Benzene	6.15	78	2302409	133.37	ug/l	100
52) Toluene	8.79	92	2424043	224.31	ug/l	97
67) Ethyl Benzene	10.26	91	14173853	696.01	ug/l #	62
68) m/p-Xylenes	10.37	106	10960366	1376.44	ug/l #	66
69) o-Xylene	10.70	106	1896842	251.83	ug/l	96
73) Isopropylbenzene	11.02	105	2568046	132.96	ug/l	98
78) n-propylbenzene	11.36	91	4077674	183.56	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	2570162	160.69	ug/l	100
83) tert-Butylbenzene	11.77	119	45504	2.83	ug/l #	46
84) 1,2,4-Trimethylbenzene	11.81	105	9805782	597.24	ug/l	89
85) sec-Butylbenzene	11.95	105	278708m	14.59	ug/l	
86) p-Isopropyltoluene	12.07	119	327272	19.11	ug/l	98
89) n-Butylbenzene	12.39	91	414119	29.74	ug/l #	33
95) Naphthalene	13.84	128	8933060	465.61	ug/l	96

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

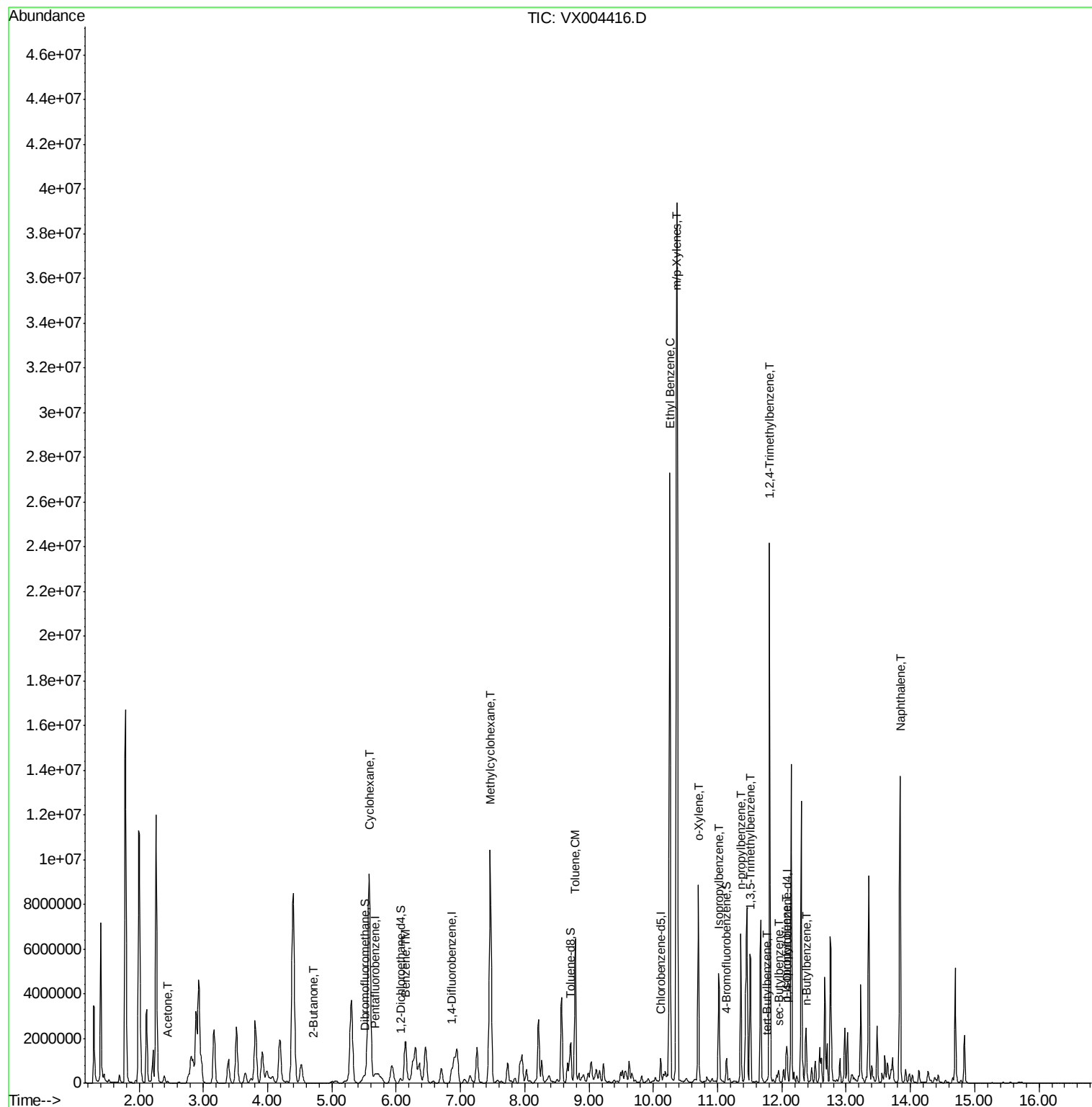
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX090718\
Data File : VX004416.D
Acq On : 07 Sep 2018 19:12
Operator : JC/MD
Sample : J4812-08
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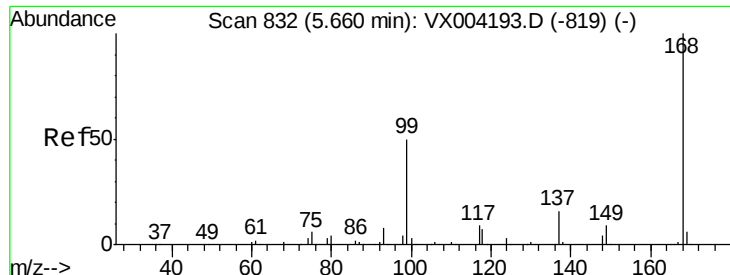
Instrument :
MSVOA_X
ClientSampleId :
MW-9

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Quant Time: Sep 08 04:33:08 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





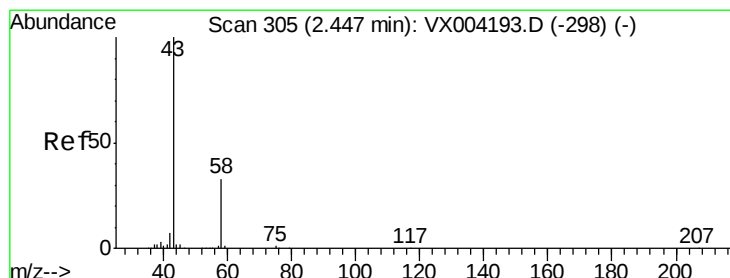
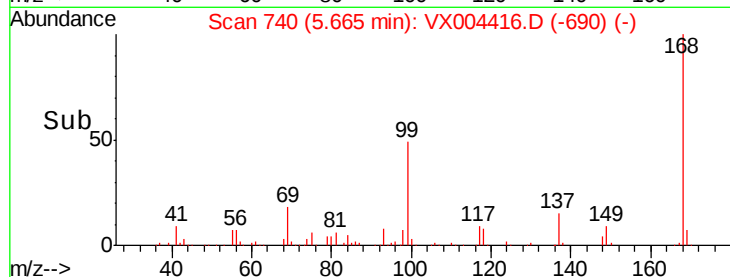
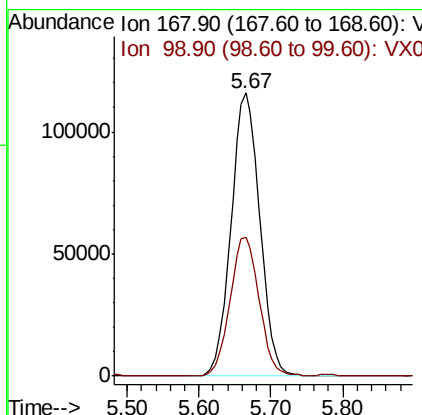
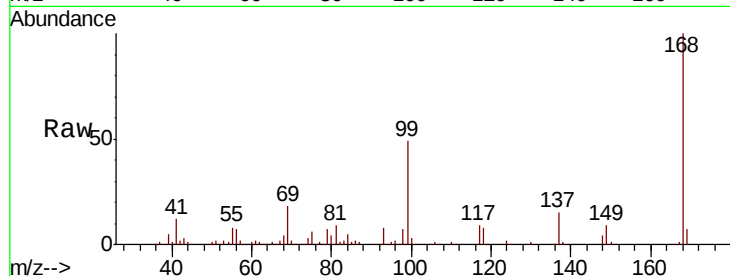
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.01 min
Lab File: VX004416.D
Acq: 07 Sep 2018 19:12

Instrument :
MSVOA_X
ClientSampled :
MW-9

Tot Ion	Ratio	Resp	Lower	Upper
168	100	320416		
99	48.9	39.9	59.9	

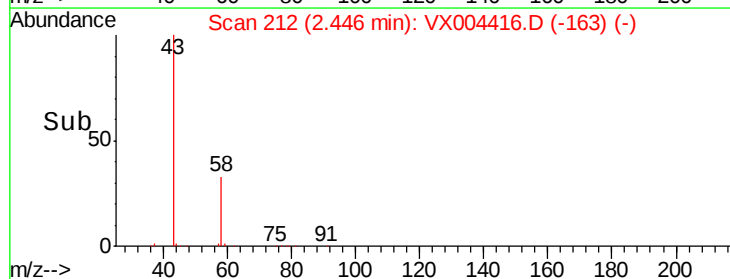
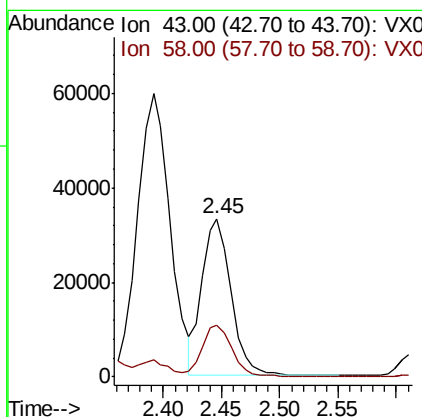
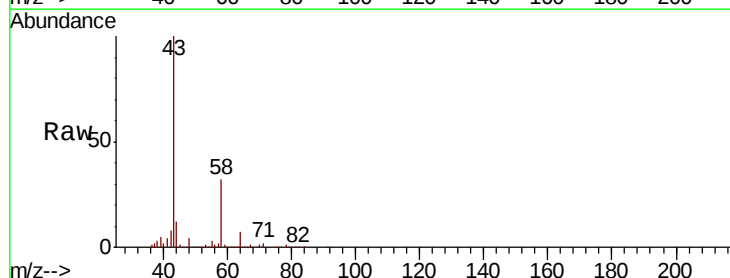
Manual Integrations
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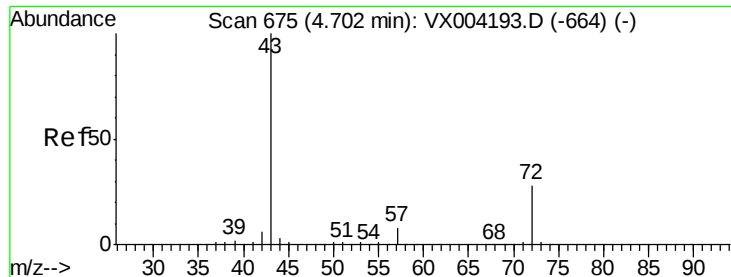
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#16
Acetone
Concen: 26.37 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004416.D
Acq: 07 Sep 2018 19:12

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	57267		
58	32.4	26.2	39.4	





#25

2-Butanone

Concen: 8.32 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

MW-9

Tot Ion: 43 Resp: 30988

Ion Ratio Lower Upper

43 100

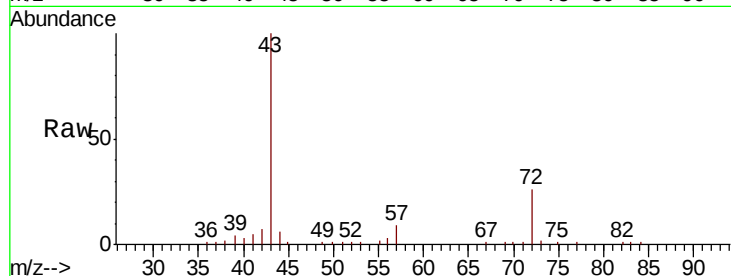
72 26.9 22.0 33.0

Manual Integrations

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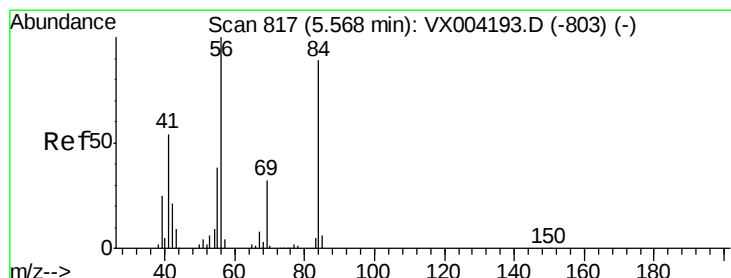
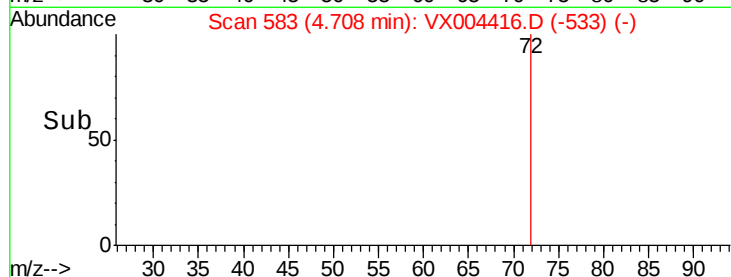
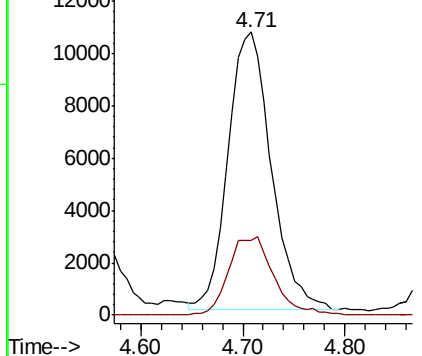
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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 1165.04 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.01 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

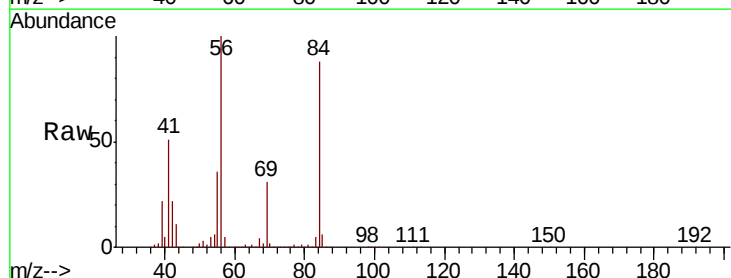
Tgt Ion: 56 Resp: 6821476

Ion Ratio Lower Upper

56 100

69 30.1 25.4 38.2

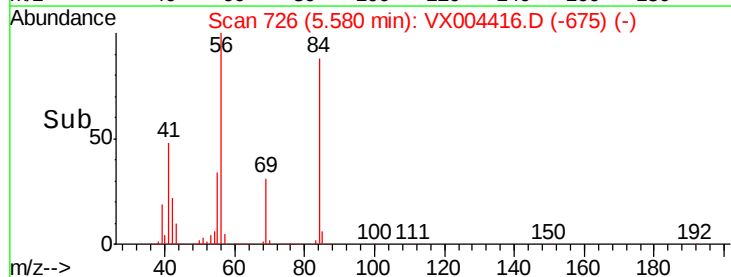
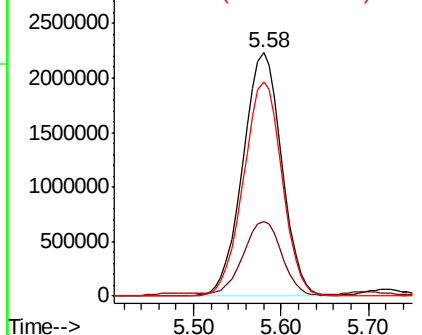
84 88.4 71.4 107.2

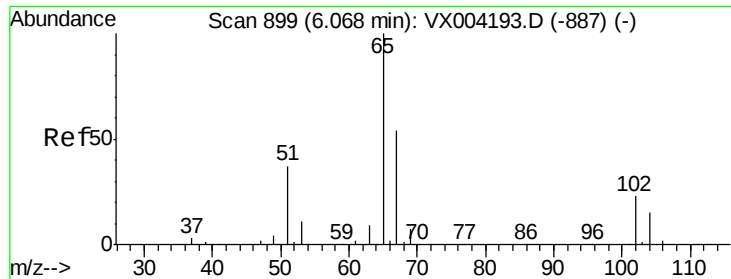


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





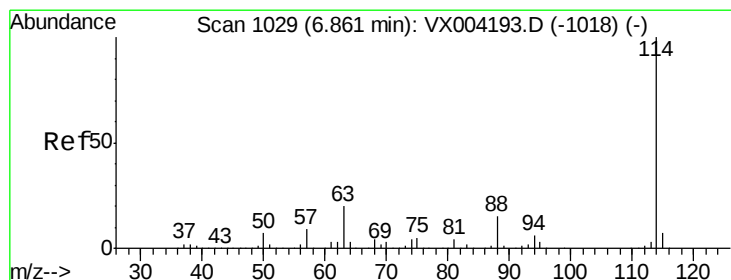
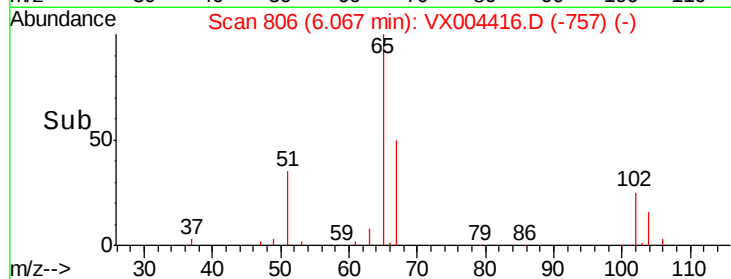
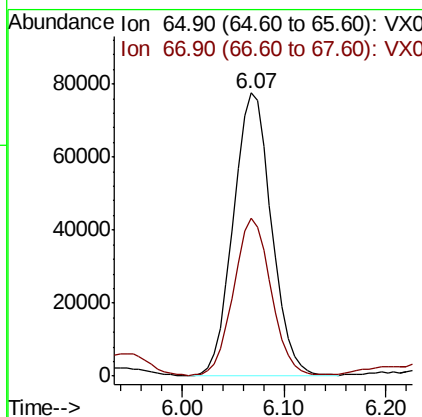
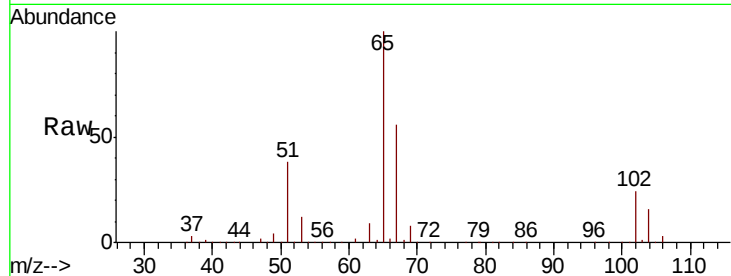
#33
 1,2-Dichloroethane-d4
 Concen: 48.23 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004416.D
 Acq: 07 Sep 2018 19:12

Instrument :
 MSVOA_X
 ClientSampled :
 MW-9

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	106.8

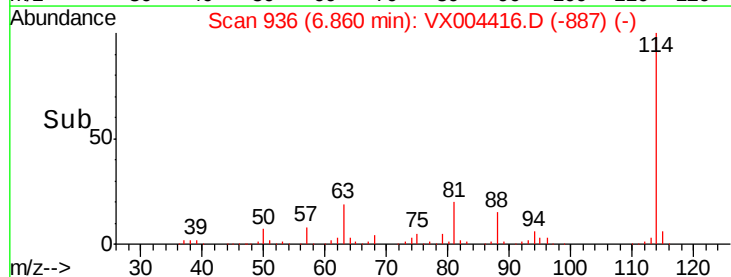
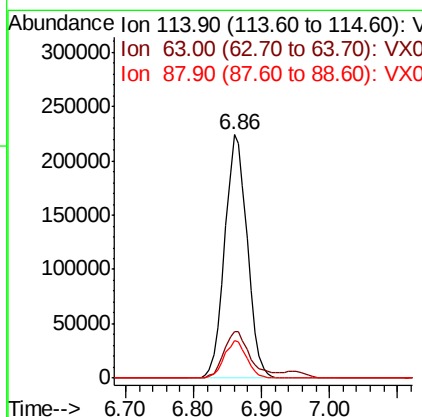
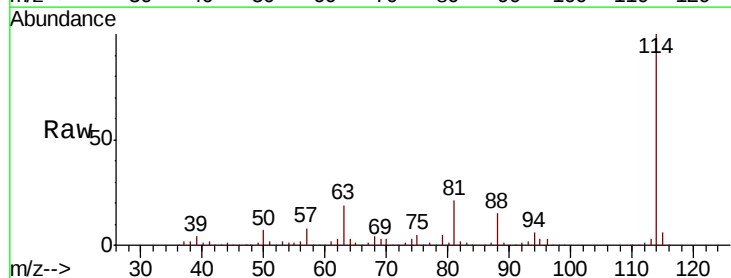
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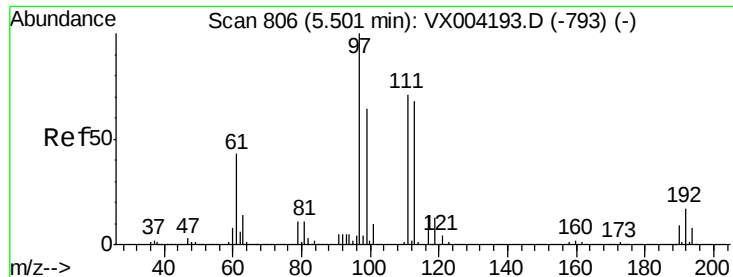
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004416.D
 Acq: 07 Sep 2018 19:12

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.0
88	15.3	0.0	30.4





#35

Dibromofluoromethane

Concen: 47.44 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

Instrument :

MSVOA_X

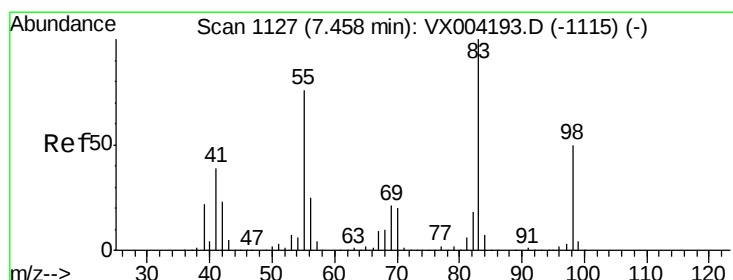
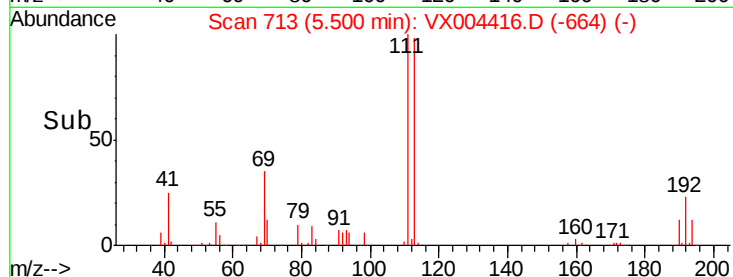
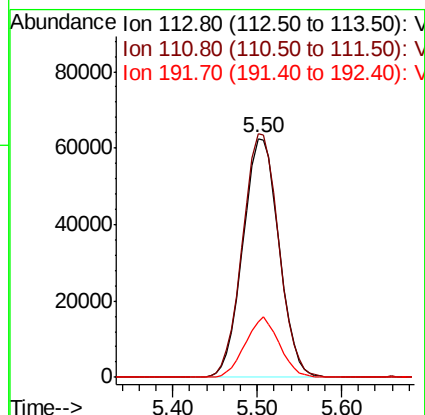
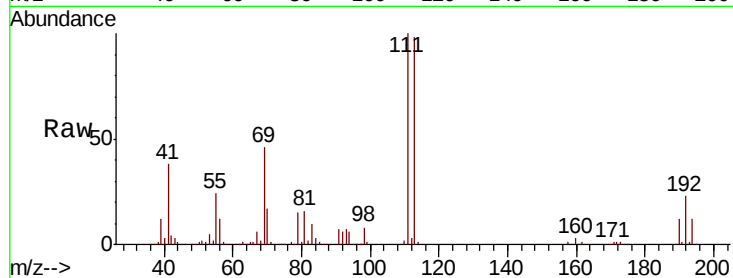
ClientSampleId :

MW-9

Tot Ion:	113	Resp:	181361
Ion Ratio	Lower	Upper	
113	100		
111	102.3	82.4	123.6
192	23.9	19.4	29.2

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#39

Methylcyclohexane

Concen: 732.40 ug/l

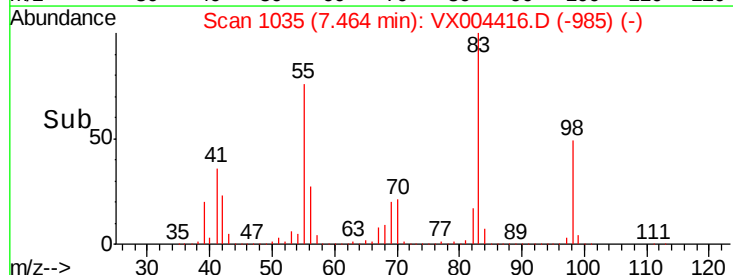
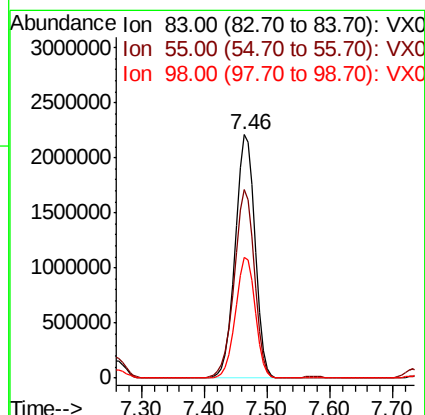
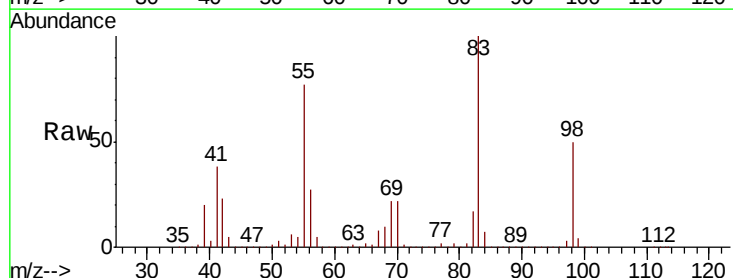
RT: 7.46 min Scan# 1035

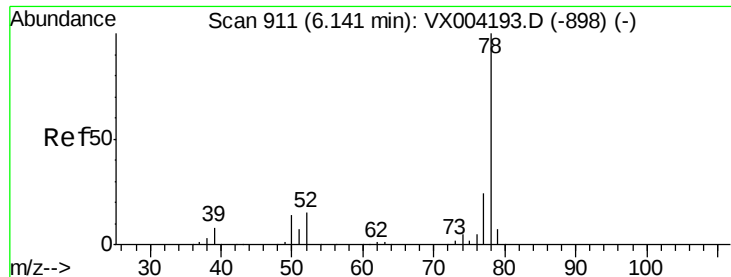
Delta R.T. 0.01 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

Tgt Ion:	83	Resp:	4831178
Ion Ratio	Lower	Upper	
83	100		
55	77.3	61.0	91.4
98	49.6	39.6	59.4





#40

Benzene

Concen: 133.37 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

Instrument :

MSVOA_X

ClientSampled :

MW-9

Tot Ion: 78 Resp: 2302409

Ion Ratio Lower Upper

78 100

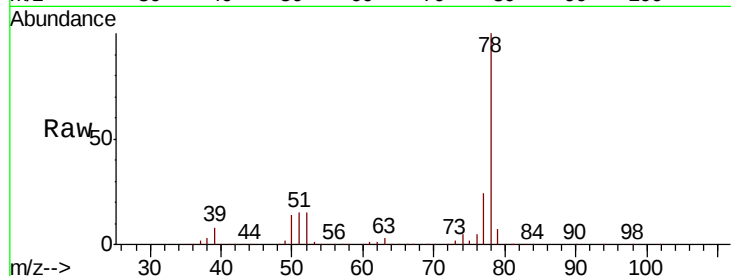
77 23.7 19.0 28.4

Manual Integrations

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Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.15

800000

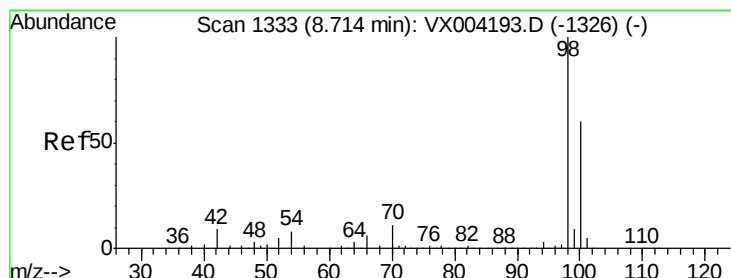
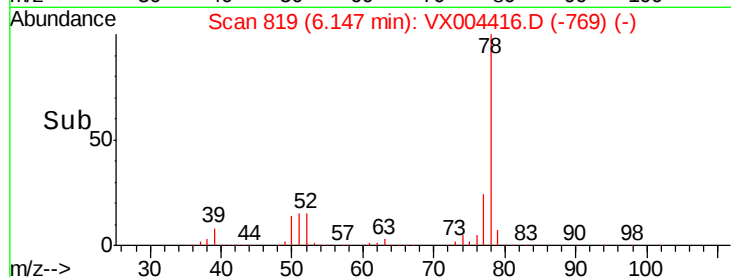
600000

400000

200000

0

Time-->



#50

Toluene-d8

Concen: 52.49 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX004416.D

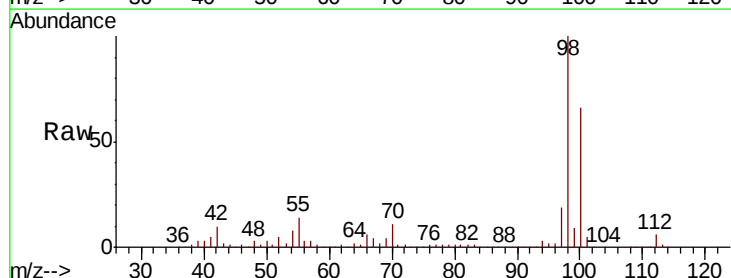
Acq: 07 Sep 2018 19:12

Tgt Ion: 98 Resp: 757479

Ion Ratio Lower Upper

98 100

100 64.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

500000

400000

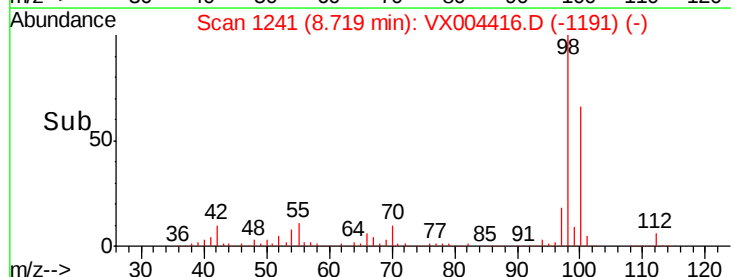
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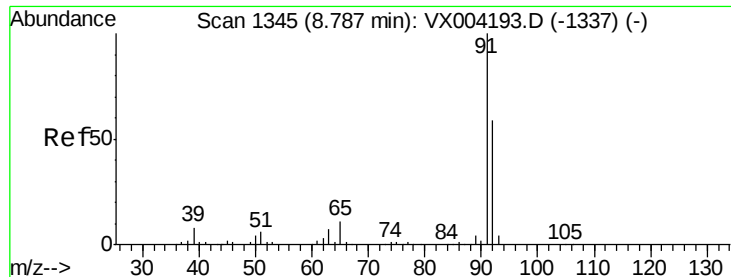
200000

100000

0

Time-->





#52

Toluene

Concen: 224.31 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

Instrument :

MSVOA_X

ClientSampleId :

MW-9

Tot Ion: 92 Resp: 2424043

Ion Ratio Lower Upper

92 100

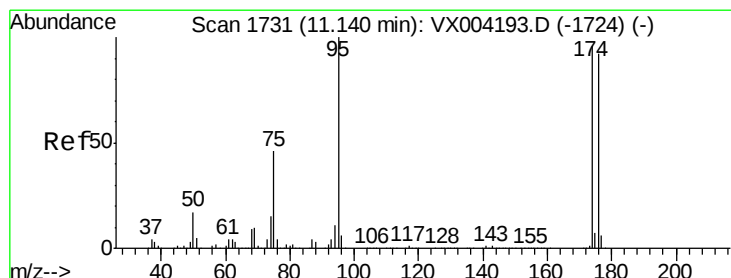
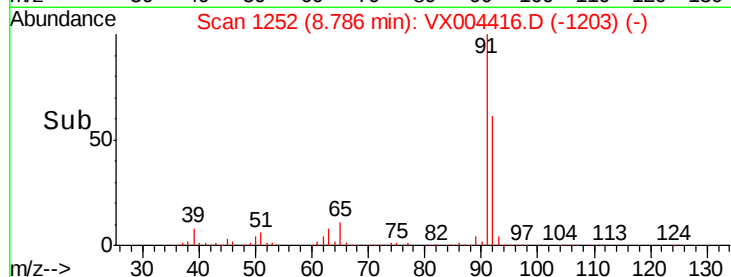
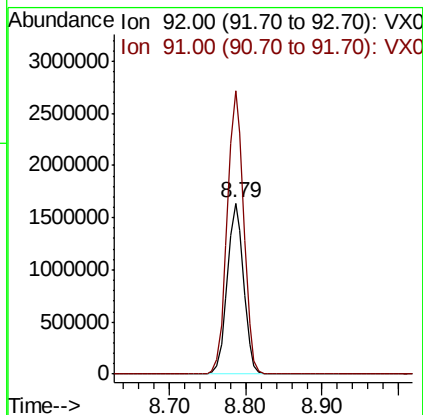
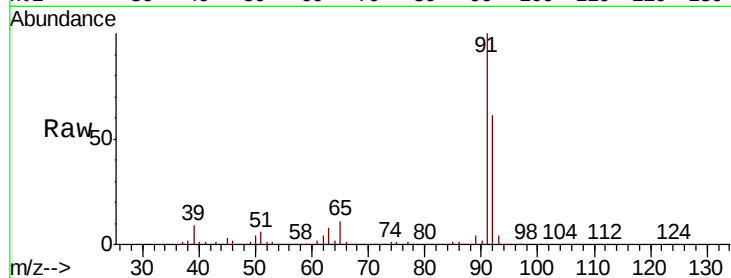
91 166.8 136.4 204.6

Manual Integrations

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9/10/2018 11:15:29 AM



#62

4-Bromofluorobenzene

Concen: 52.54 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

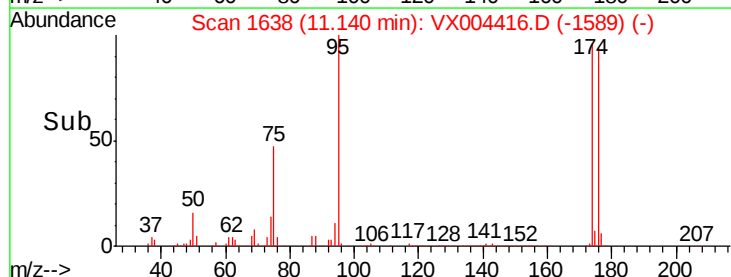
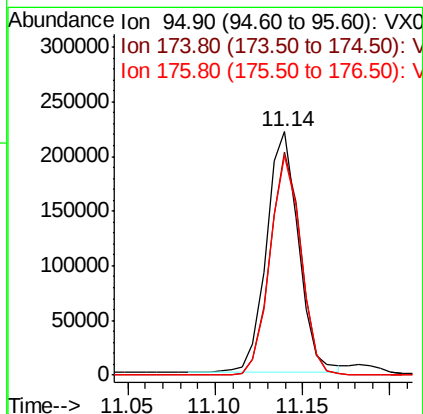
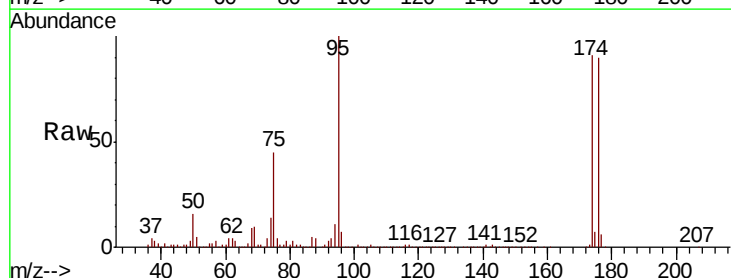
Tgt Ion: 95 Resp: 282926

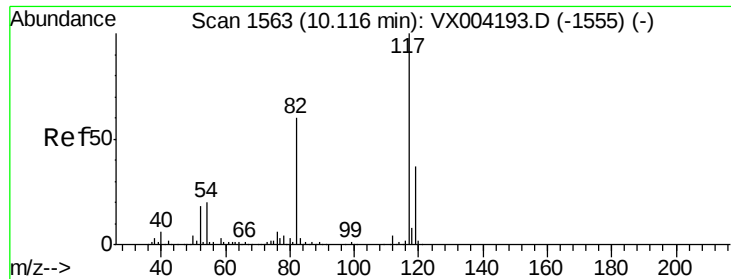
Ion Ratio Lower Upper

95 100

174 88.6 0.0 185.2

176 87.4 0.0 178.6





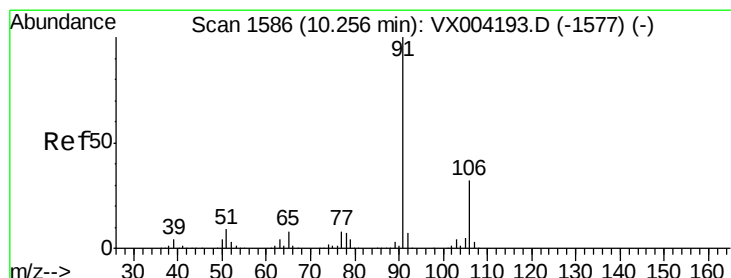
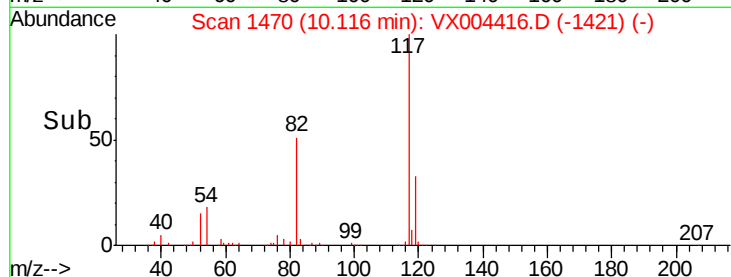
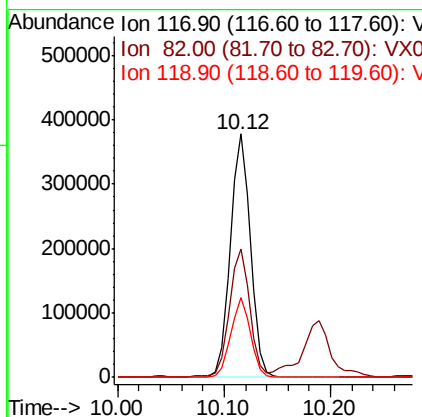
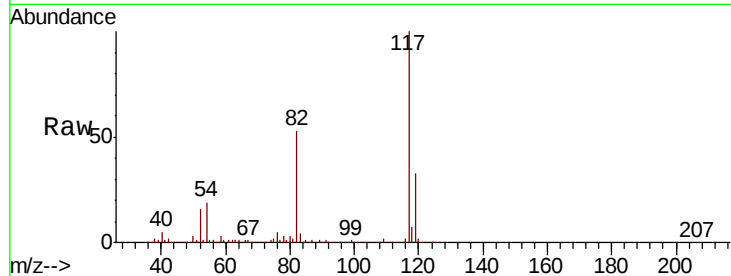
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004416.D
Acq: 07 Sep 2018 19:12

Instrument :
MSVOA_X
ClientSampled :
MW-9

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	47.8	71.6
119	32.6	29.3	43.9

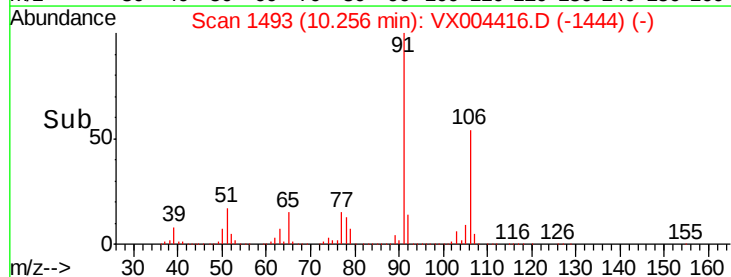
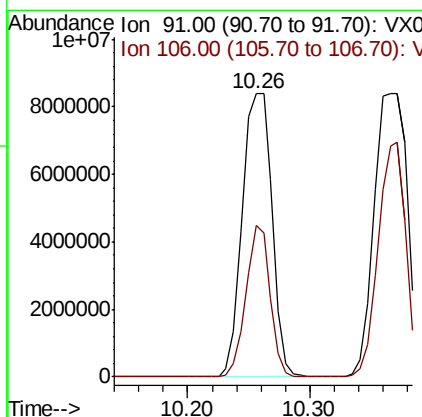
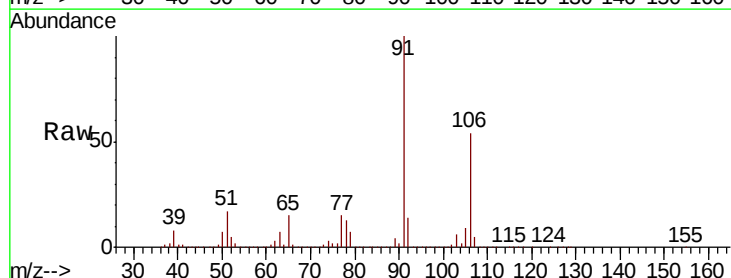
Manual Integrations
APPROVED

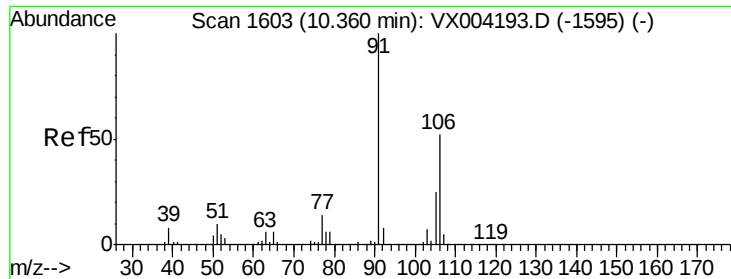
MMDadoda
9/10/2018 11:15:29 AM



#67
Ethyl Benzene
Concen: 696.01 ug/l
RT: 10.26 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VX004416.D
Acq: 07 Sep 2018 19:12

Tgt Ion	Ratio	Lower	Upper
91	100		
106	53.6	25.9	38.9





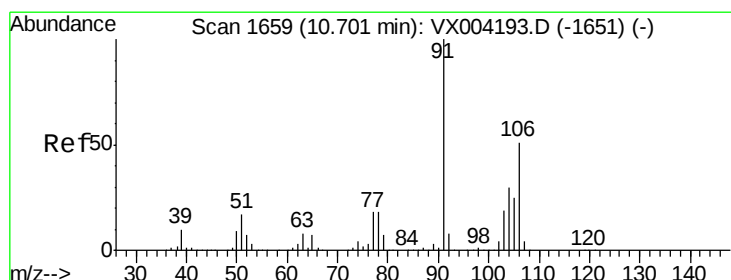
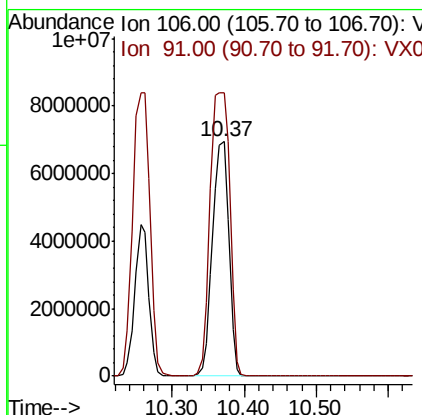
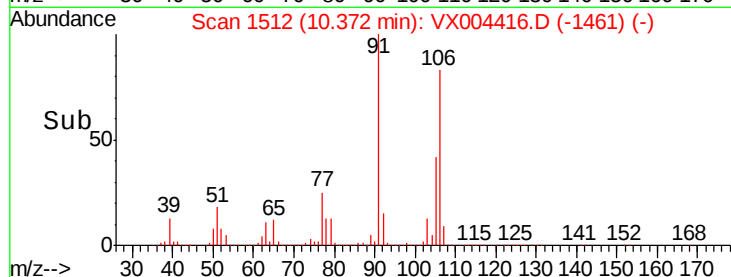
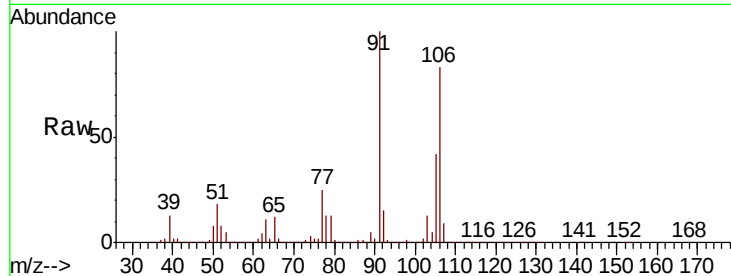
#68
m/p-Xylenes
Concen: 1376.44 ug/l
RT: 10.37 min Scan# 1512
Delta R.T. 0.01 min
Lab File: VX004416.D
Acq: 07 Sep 2018 19:12

Instrument :
MSVOA_X
ClientSampled :
MW-9

Tot Ion:106 Resp:10960366
Ion Ratio Lower Upper
106 100
91 145.0 157.1 235.7#

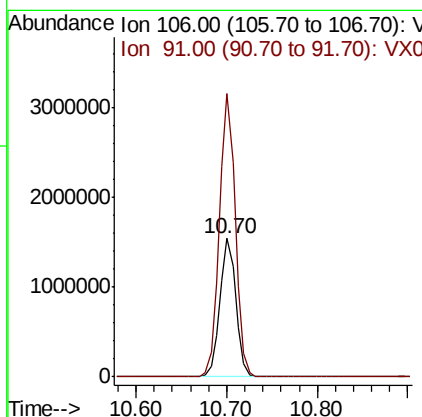
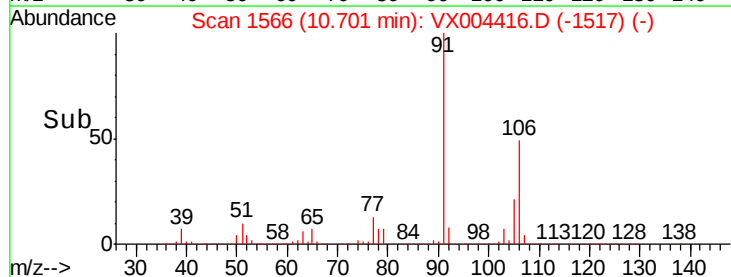
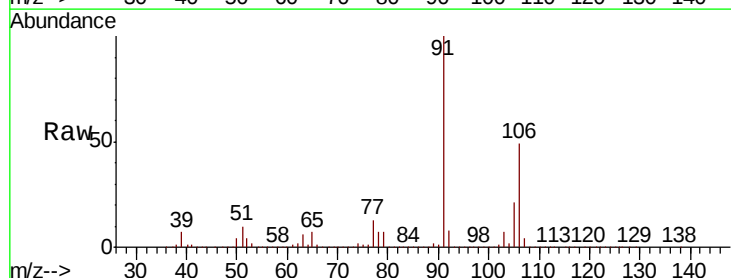
Manual Integrations
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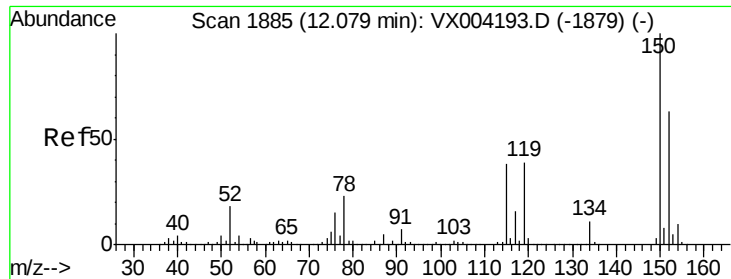
MMDadoda
9/10/2018 11:15:29 AM



#69
o-Xylene
Concen: 251.83 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX004416.D
Acq: 07 Sep 2018 19:12

Tgt Ion:106 Resp: 1896842
Ion Ratio Lower Upper
106 100
91 204.5 105.1 315.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

Instrument :

MSVOA_X

ClientSampled :

MW-9

Tot Ion:152 Resp: 294070

Ion Ratio Lower Upper

152 100

115 62.0 39.0 117.0

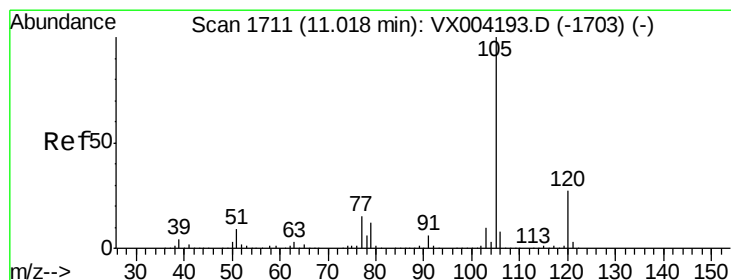
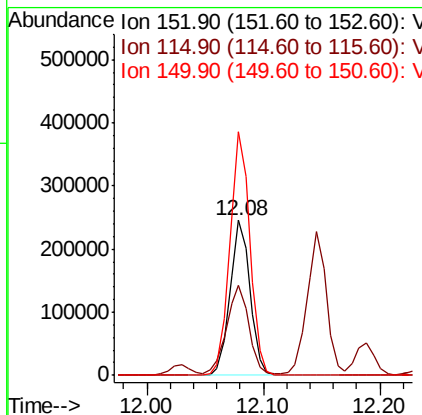
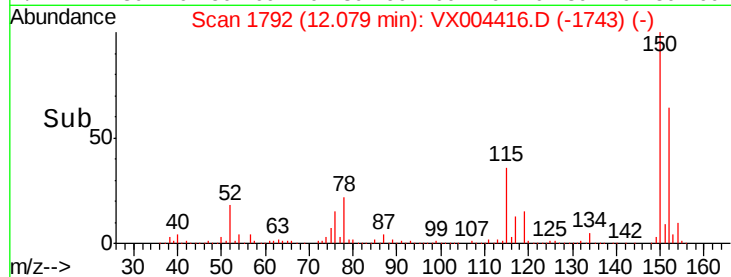
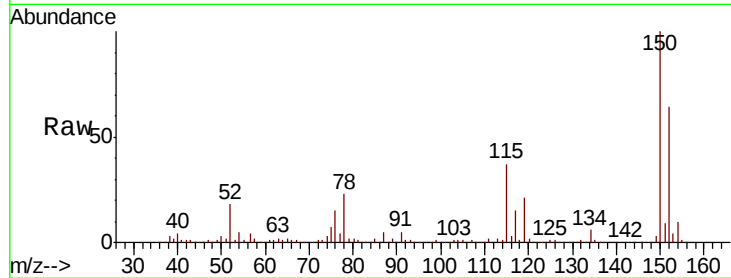
150 156.8 0.0 351.0

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#73

Isopropylbenzene

Concen: 132.96 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX004416.D

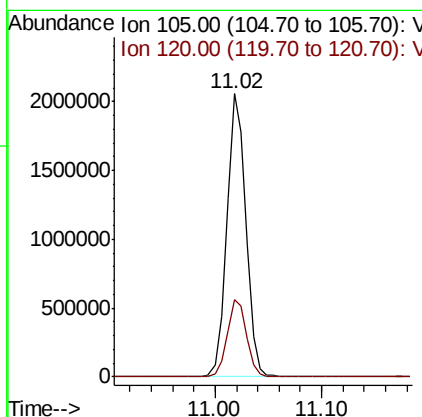
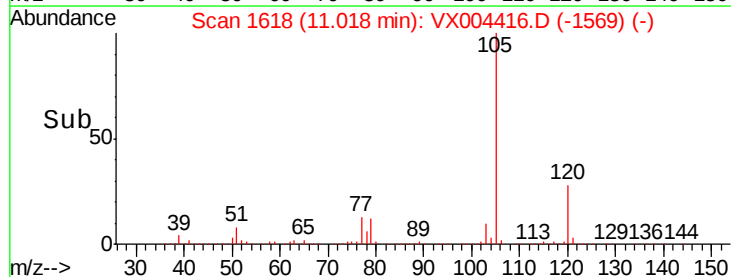
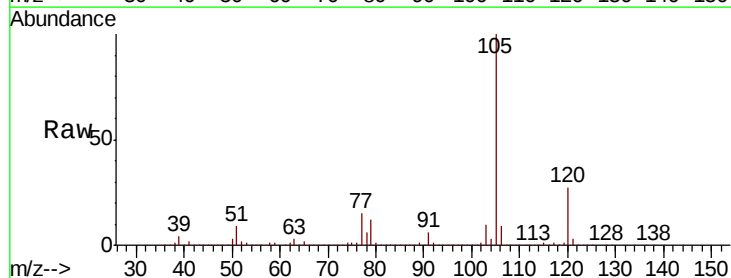
Acq: 07 Sep 2018 19:12

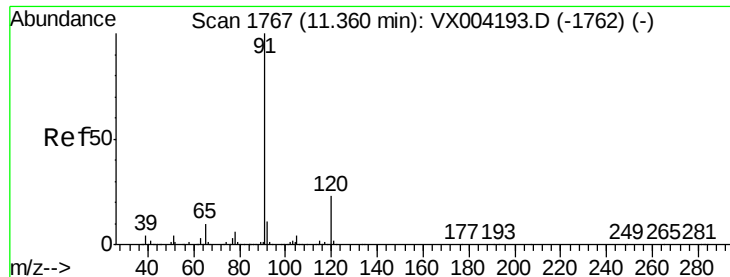
Tgt Ion:105 Resp: 2568046

Ion Ratio Lower Upper

105 100

120 27.7 13.5 40.4





#78

n-propylbenzene

Concen: 183.56 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

Instrument :

MSVOA_X

ClientSampled :

MW-9

Tot Ion: 91 Resp: 4077674

Ion Ratio Lower Upper

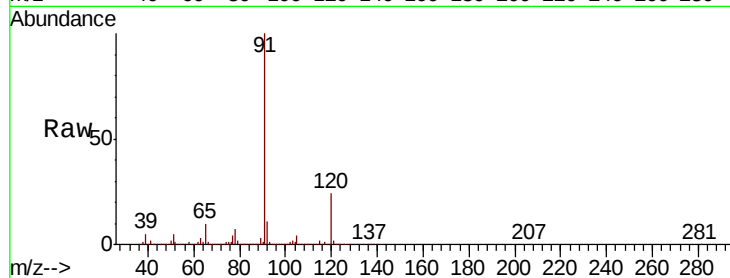
91 100

120 24.4 11.9 35.9

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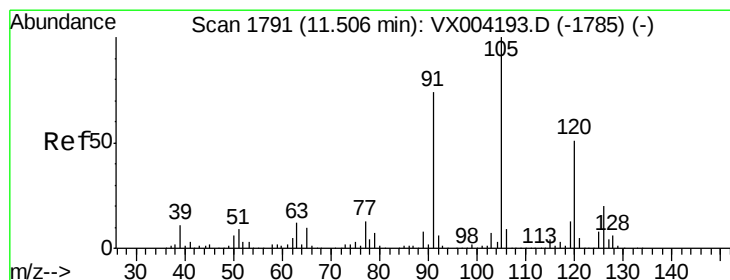
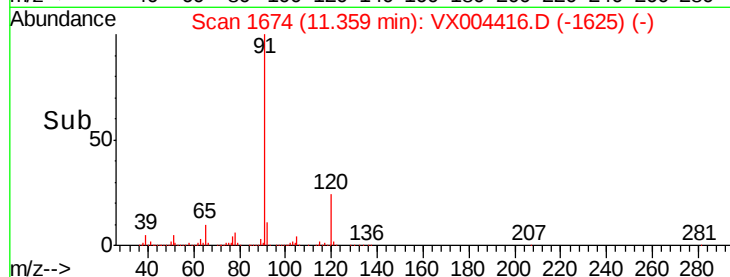
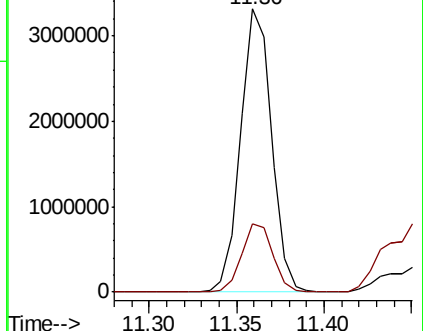
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Abundance Ion 91.00 (90.70 to 91.70): VX004416.D (-1762) (-)

Ion 120.00 (119.70 to 120.70): VX004416.D (-1762) (-)



#80

1,3,5-Trimethylbenzene

Concen: 160.69 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX004416.D

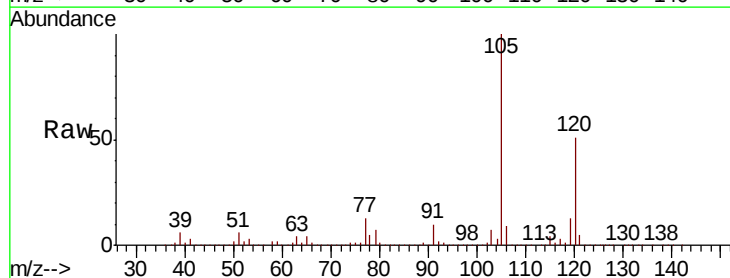
Acq: 07 Sep 2018 19:12

Tgt Ion:105 Resp: 2570162

Ion Ratio Lower Upper

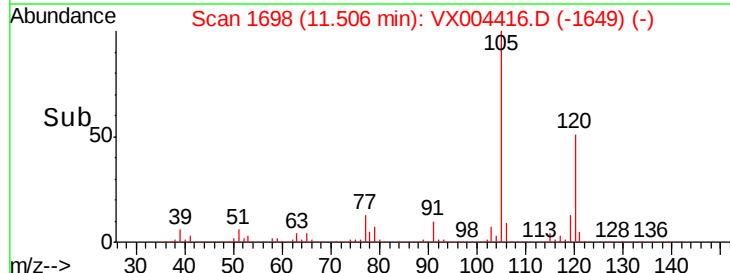
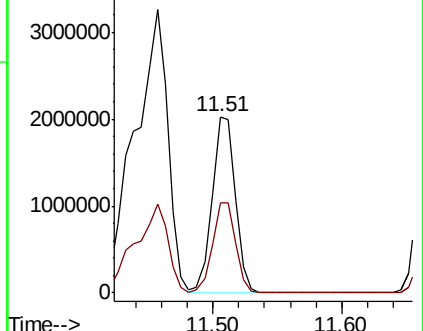
105 100

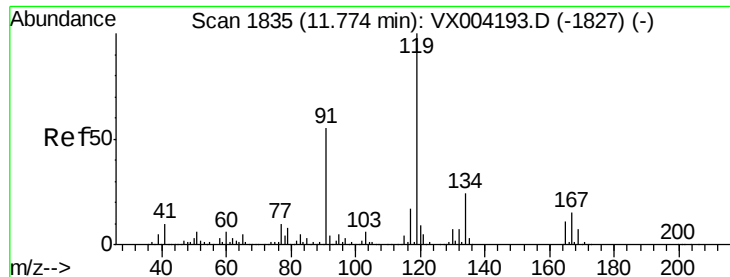
120 51.2 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VX004416.D (-1649) (-)

Ion 120.00 (119.70 to 120.70): VX004416.D (-1649) (-)





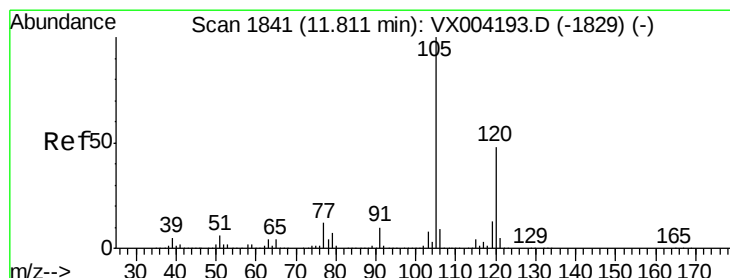
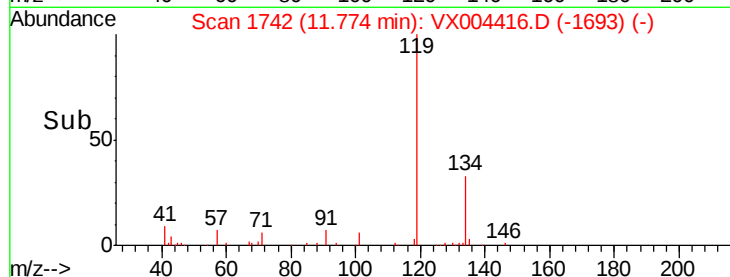
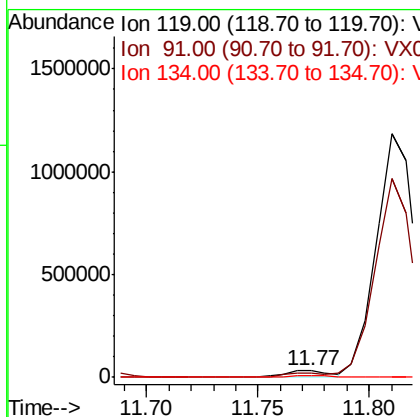
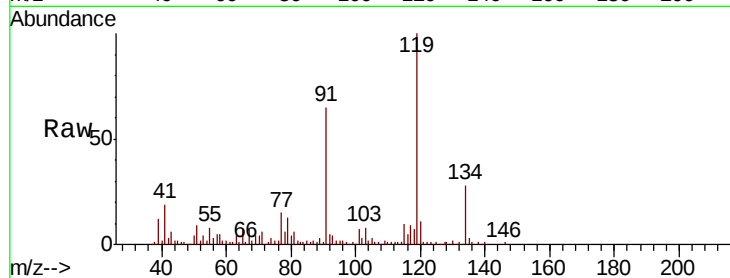
#83
 tert-Butylbenzene
 Concen: 2.83 ug/l
 RT: 11.77 min Scan# 1742
 Delta R.T. -0.00 min
 Lab File: VX004416.D
 Acq: 07 Sep 2018 19:12

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-9

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	27.0	81.0#
134	25.2	11.7	35.1

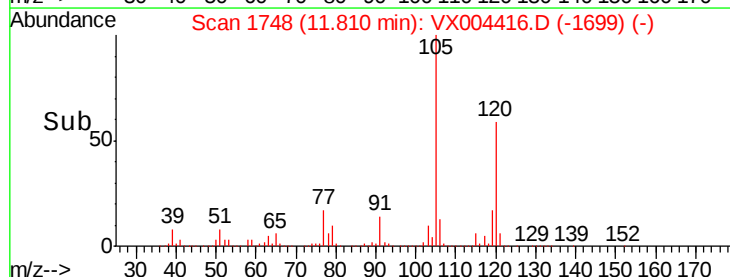
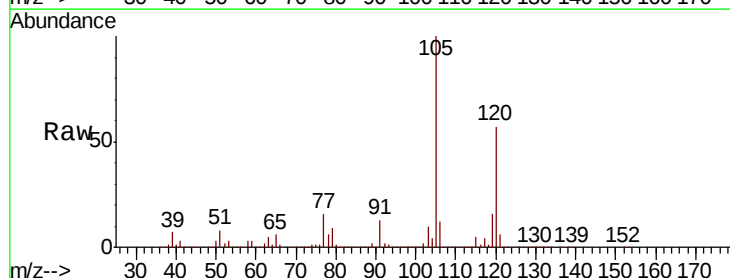
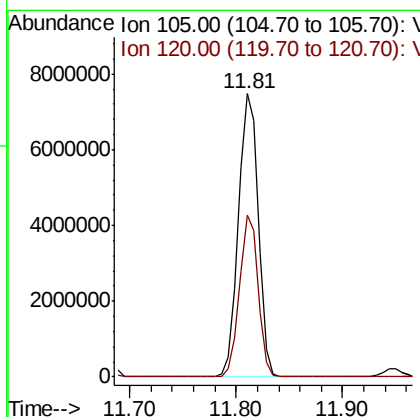
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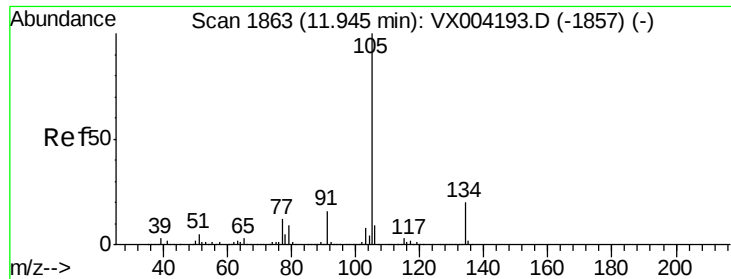
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#84
 1,2,4-Trimethylbenzene
 Concen: 597.24 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX004416.D
 Acq: 07 Sep 2018 19:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.6	23.2	69.6





#85

sec-Butylbenzene

Concen: 14.59 ug/l m

RT: 11.95 min Scan# 1771

Delta R.T. 0.01 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

Instrument :

MSVOA_X

ClientSampled :

MW-9

Tot Ion:105 Resp: 278708

Ion Ratio Lower Upper

105 100

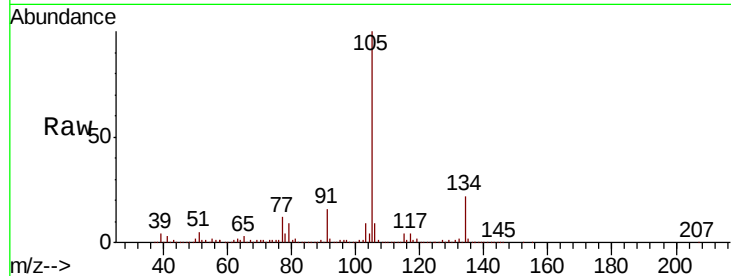
134 0.0 10.5 31.5#

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.95

250000

200000

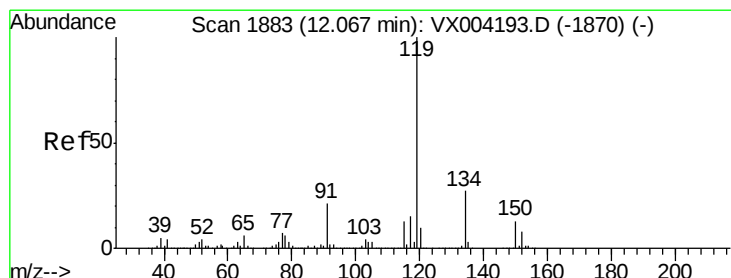
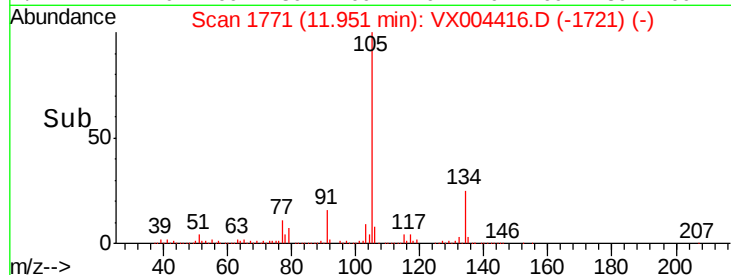
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.11 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. -0.00 min

Lab File: VX004416.D

Acq: 07 Sep 2018 19:12

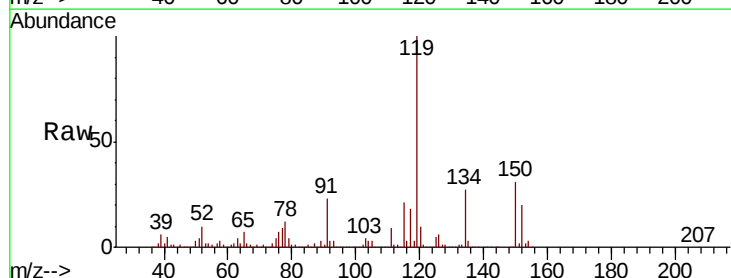
Tgt Ion:119 Resp: 327272

Ion Ratio Lower Upper

119 100

134 27.1 13.4 40.2

91 23.1 10.9 32.7



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): VX0

500000

400000

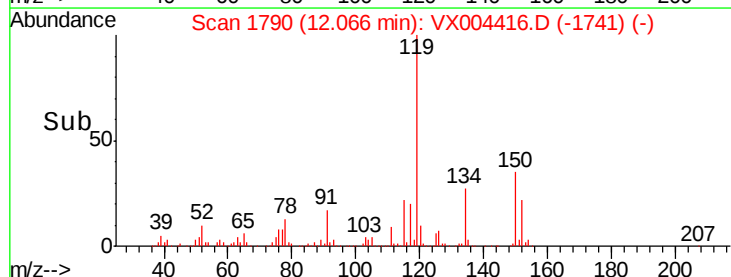
300000

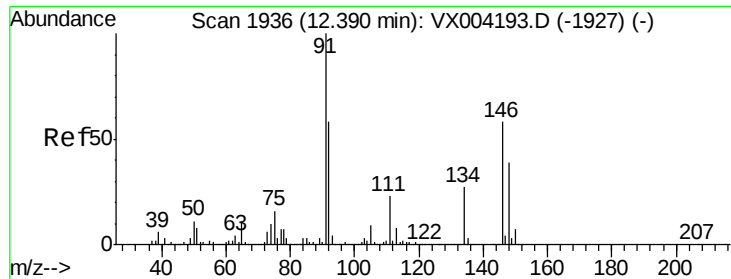
200000

100000

0

Time-->





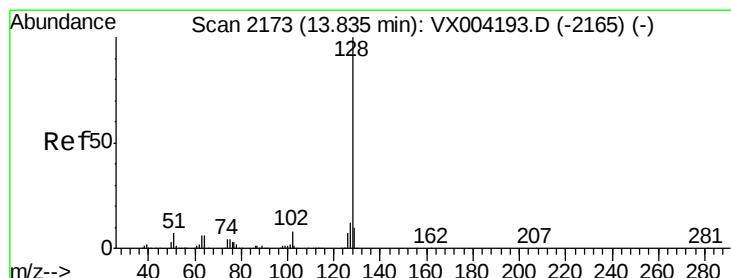
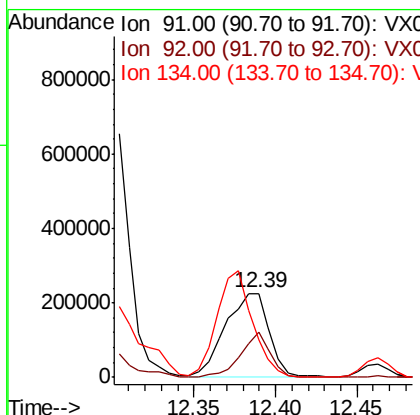
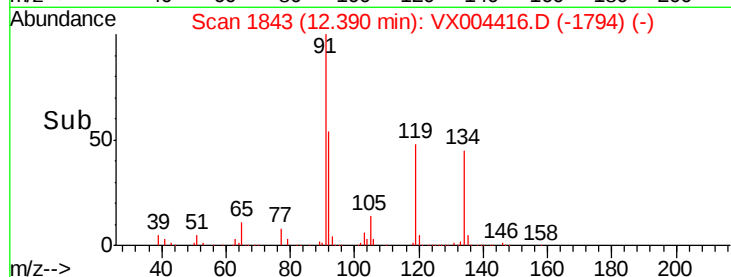
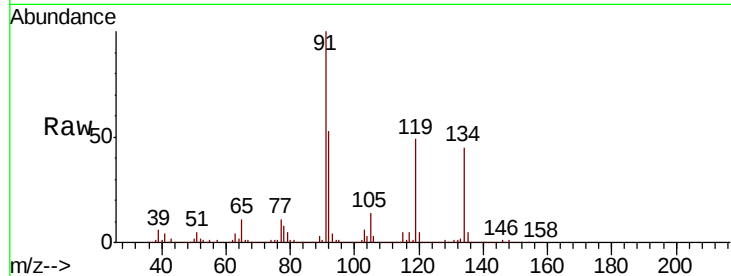
#89
n-Butylbenzene
Concen: 29.74 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX004416.D
Acq: 07 Sep 2018 19:12

Instrument :
MSVOA_X
ClientSampled :
MW-9

Tot Ion	Ratio	Lower	Upper
91	100		
92	36.5	27.3	81.9
134	105.5	13.6	40.7#

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#95
Naphthalene
Concen: 465.61 ug/l
RT: 13.84 min Scan# 2081
Delta R.T. 0.01 min
Lab File: VX004416.D
Acq: 07 Sep 2018 19:12

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.2	15.2
129	12.3	8.6	12.8

