

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
 Data File : VX004535.D
 Acq On : 14 Sep 2018 13:07
 Operator : JC/MD
 Sample : J4892-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-05-091218

Manual Integrations
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 9/17/2018 5:09:22 PM

Quant Time: Sep 15 05:13:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	274068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	374148	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	343674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	209032	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	170631	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	
35) Dibromofluoromethane	5.51	113	153706	44.89	ug/l	0.00
Spiked Amount			Recovery	=	89.78%	
50) Toluene-d8	8.72	98	529349	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
62) 4-Bromofluorobenzene	11.14	95	195495	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Cyclohexane	5.57	56	97241	19.02	ug/l	# 90
39) Methylcyclohexane	7.46	83	95984	20.25	ug/l	95
40) Benzene	6.14	78	44035	3.27	ug/l	99
52) Toluene	8.79	92	8501624	1070.67	ug/l	87
67) Ethyl Benzene	10.26	91	12554561	904.45	ug/l	# 83
68) m/p-Xylenes	10.38	106	15250553	2852.21	ug/l	# 54
69) o-Xylene	10.70	106	636923	123.90	ug/l	99
73) Isopropylbenzene	11.02	105	1635746	118.82	ug/l	99
78) n-propylbenzene	11.36	91	1676674	105.93	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	2462662	212.79	ug/l	98
84) 1,2,4-Trimethylbenzene	11.81	105	8713913	737.47	ug/l	94
85) sec-Butylbenzene	11.94	105	98454m	7.01	ug/l	
86) p-Isopropyltoluene	12.07	119	56815m	4.58	ug/l	
89) n-Butylbenzene	12.38	91	179507	15.89	ug/l	# 12
95) Naphthalene	13.83	128	3466177	242.89	ug/l	99

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

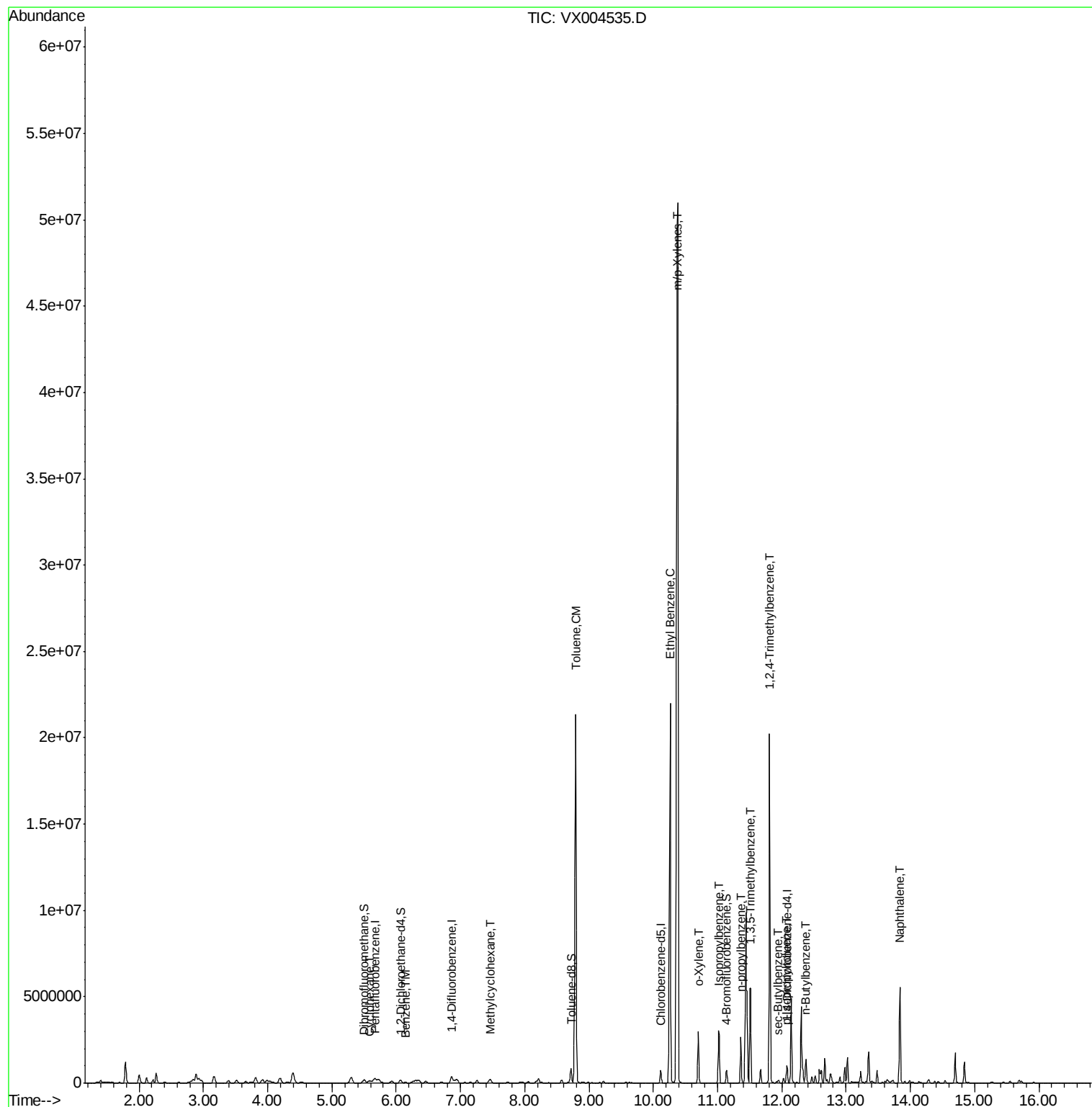
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

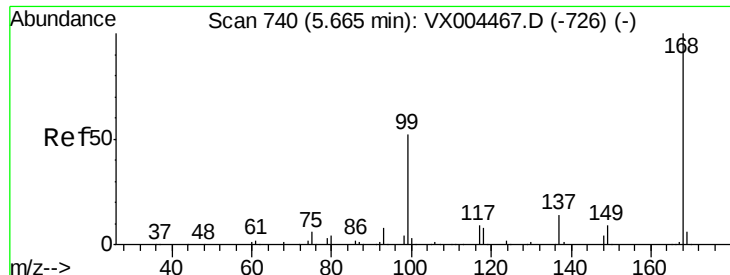
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-05-091218

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Quant Time: Sep 15 05:13:56 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-05-091218

Tot Ion:168 Resp: 274068

Ion Ratio Lower Upper

168 100

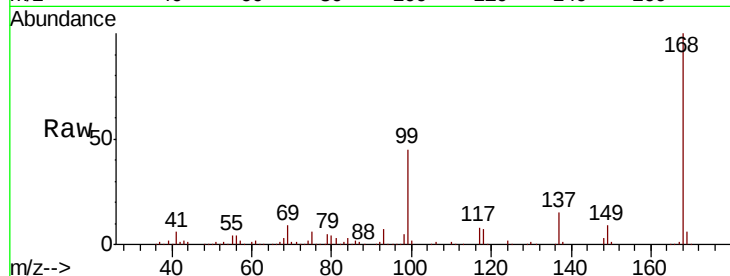
99 44.7 39.9 59.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

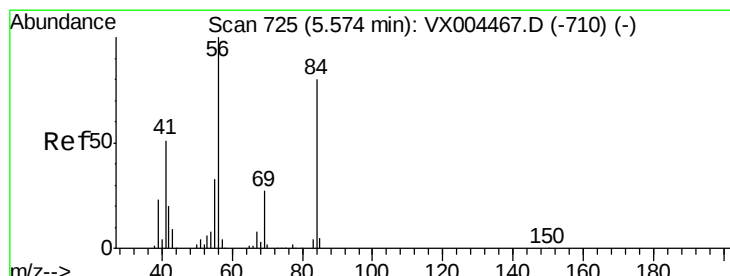
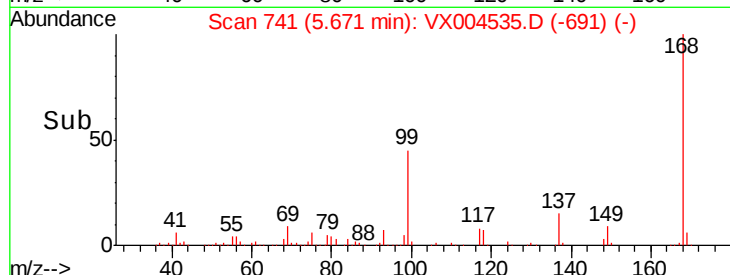
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#31

Cyclohexane

Concen: 19.02 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.00 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

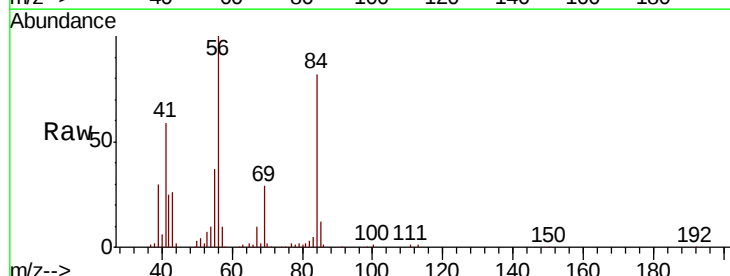
Tgt Ion: 56 Resp: 97241

Ion Ratio Lower Upper

56 100

69 20.0 25.4 38.2#

84 83.1 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

60000

50000

40000

30000

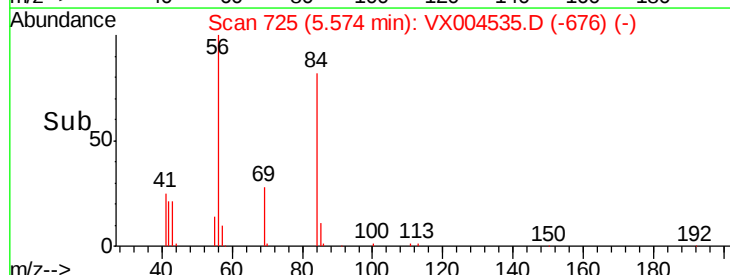
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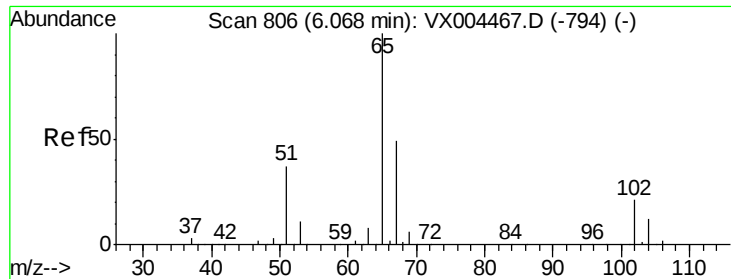
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0

Time-->

5.50 5.60 5.70





#33

1,2-Dichloroethane-d4

Concen: 48.28 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-05-091218

Tot Ion: 65 Resp: 170631

Ion Ratio Lower Upper

65 100

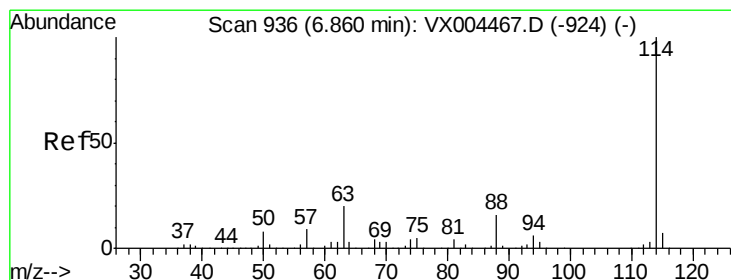
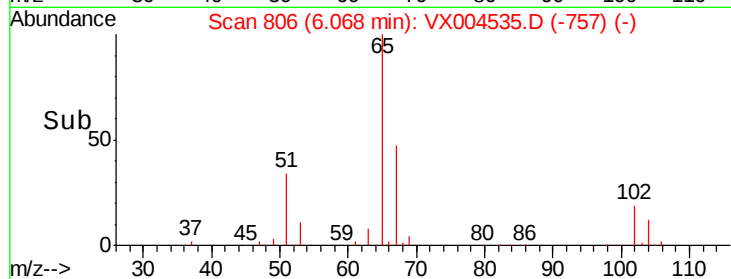
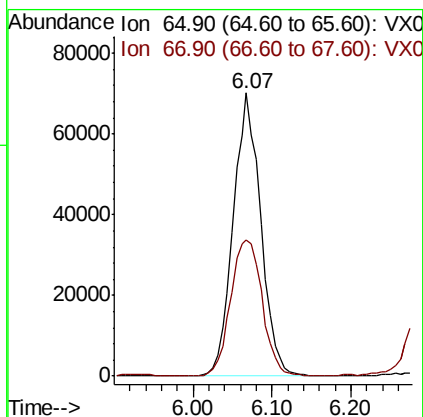
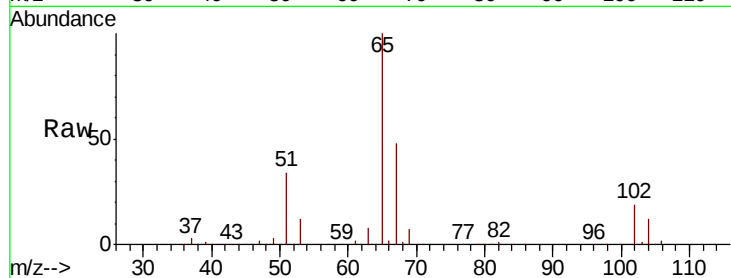
67 55.2 0.0 106.8

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

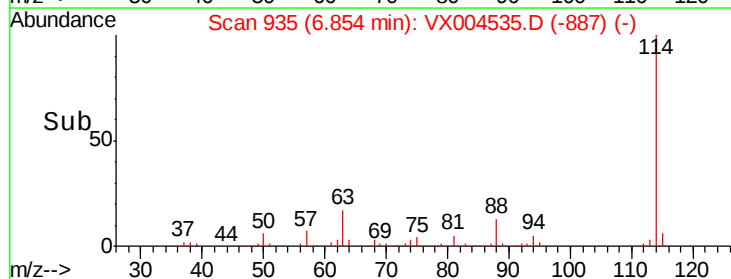
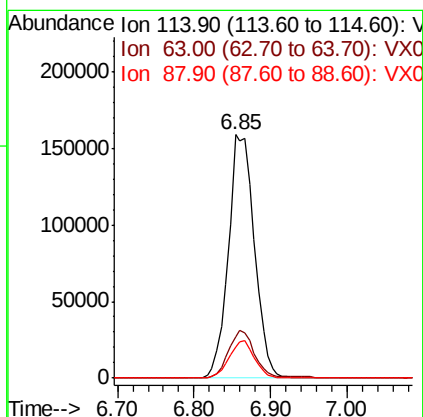
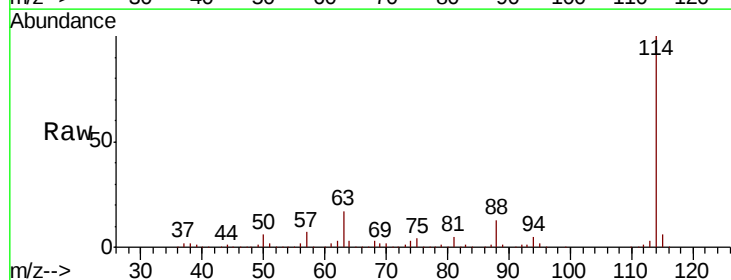
Tgt Ion: 114 Resp: 374148

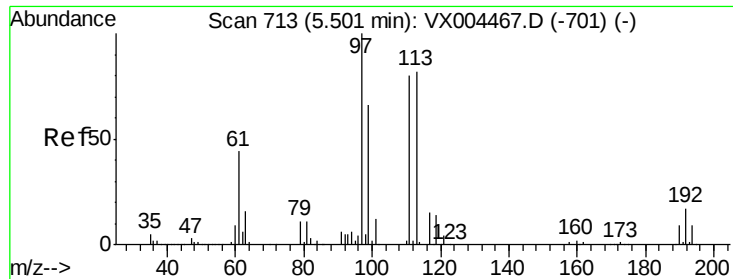
Ion Ratio Lower Upper

114 100

63 16.8 0.0 39.0

88 13.0 0.0 30.4





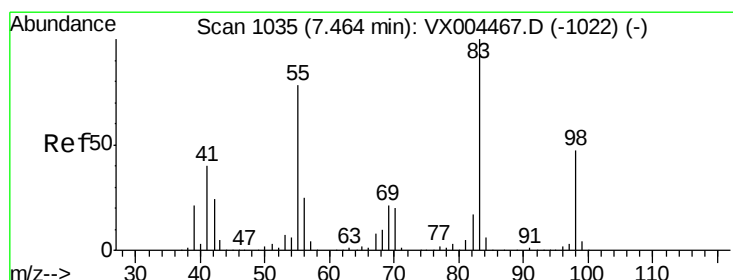
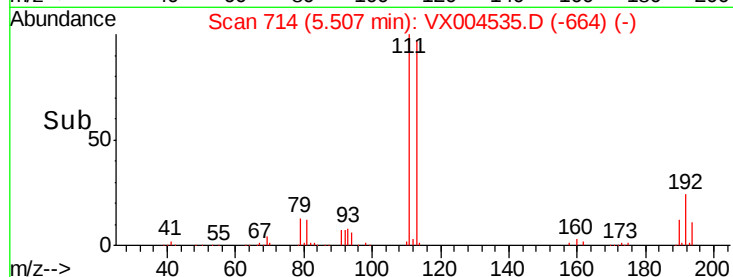
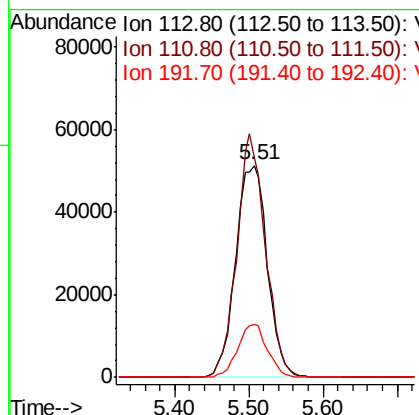
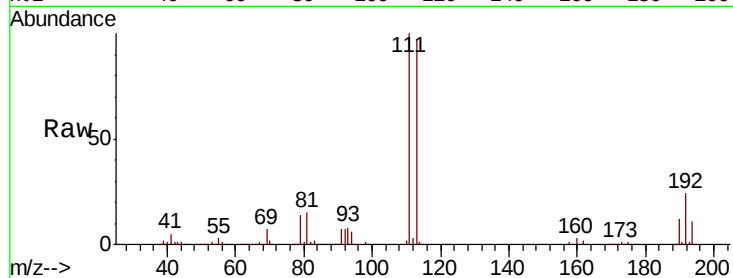
#35
Dibromofluoromethane
Concen: 44.89 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX004535.D
Acq: 14 Sep 2018 13:07

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-05-091218

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.5	82.4	123.6	
192	23.4	19.4	29.2	

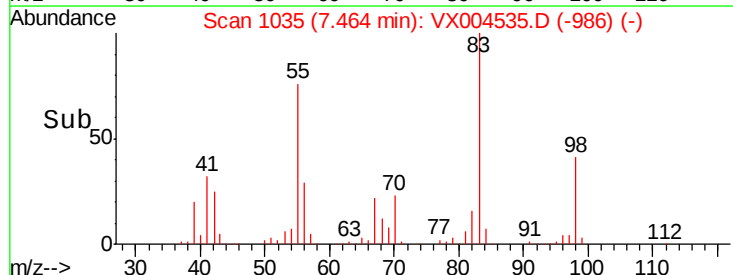
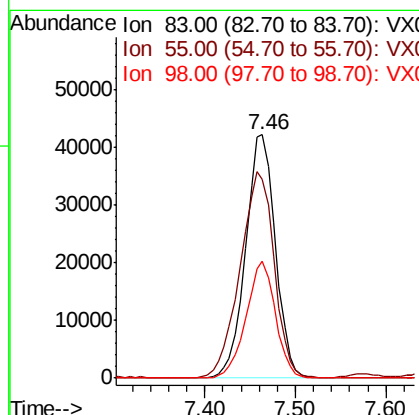
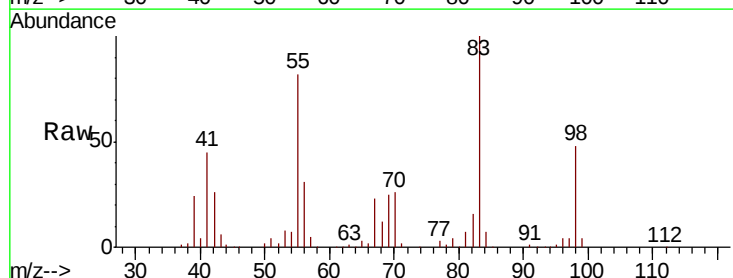
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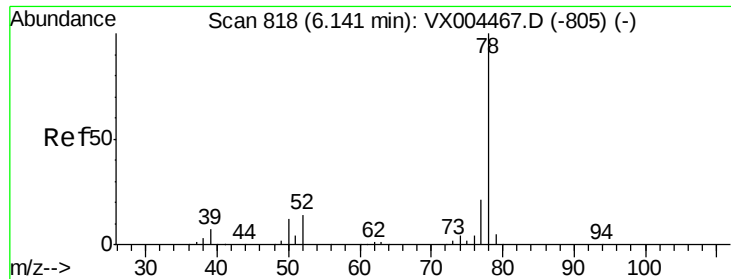
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#39
Methylcyclohexane
Concen: 20.25 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX004535.D
Acq: 14 Sep 2018 13:07

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
55	81.7	61.0	91.4	
98	47.9	39.6	59.4	





#40

Benzene

Concen: 3.27 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-05-091218

Tot Ion: 78 Resp: 44035

Ion Ratio Lower Upper

78 100

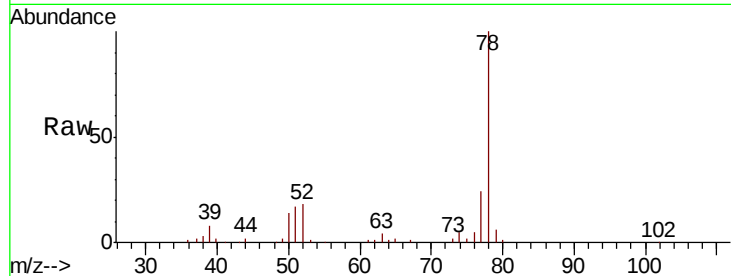
77 23.4 19.0 28.4

Manual Integrations

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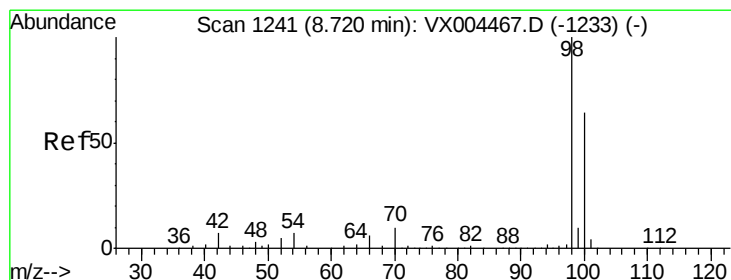
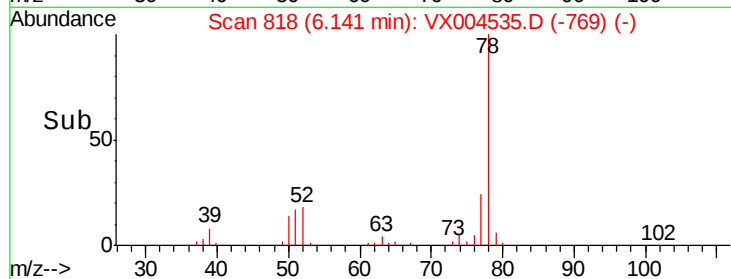
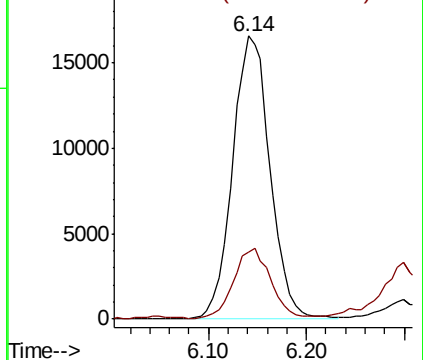
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Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 46.10 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX004535.D

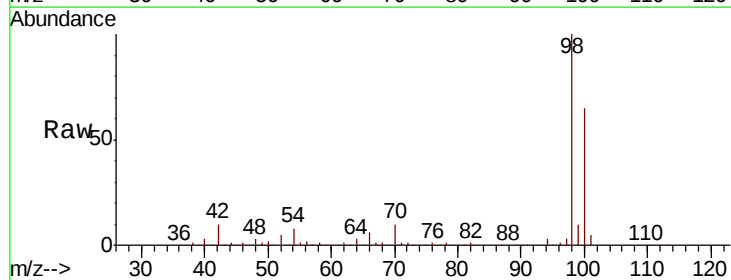
Acq: 14 Sep 2018 13:07

Tgt Ion: 98 Resp: 529349

Ion Ratio Lower Upper

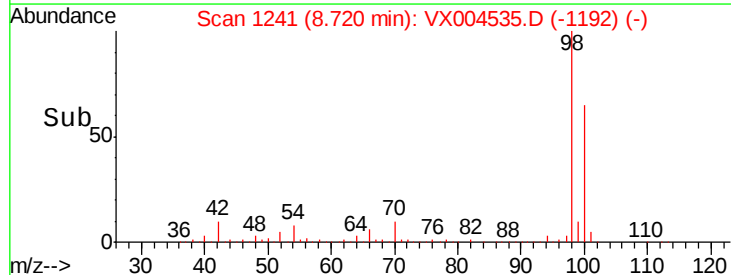
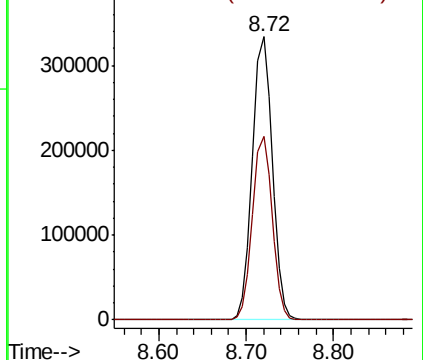
98 100

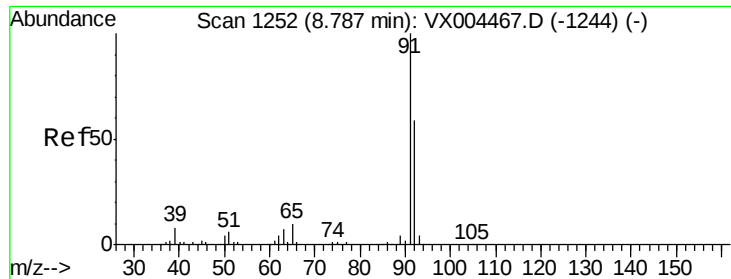
100 64.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 1070.67 ug/l

RT: 8.79 min Scan# 1253

Delta R.T. 0.01 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-05-091218

Tot Ion: 92 Resp: 8501624

Ion Ratio Lower Upper

92 100

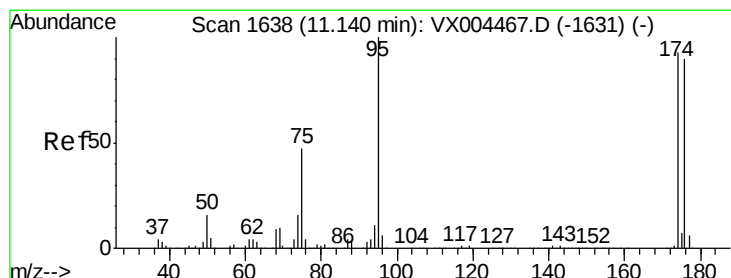
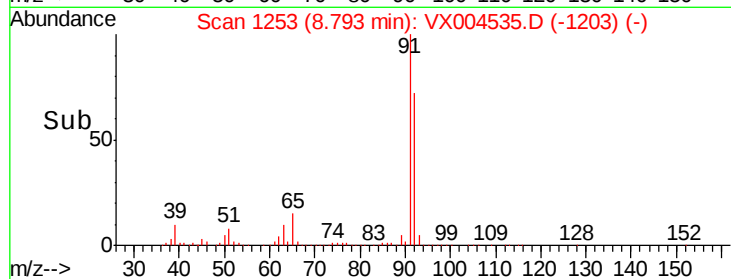
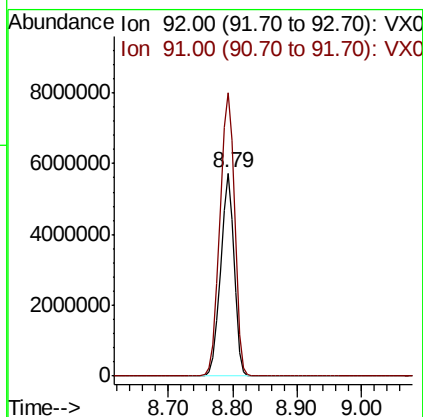
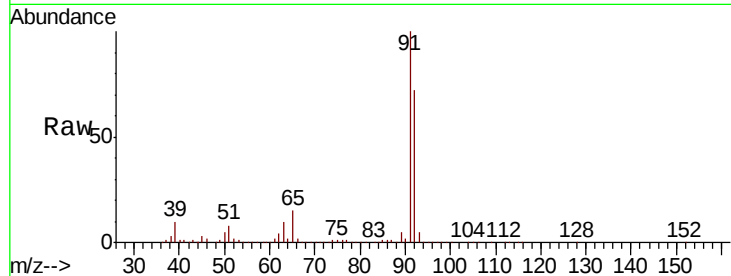
91 153.1 136.4 204.6

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 47.70 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

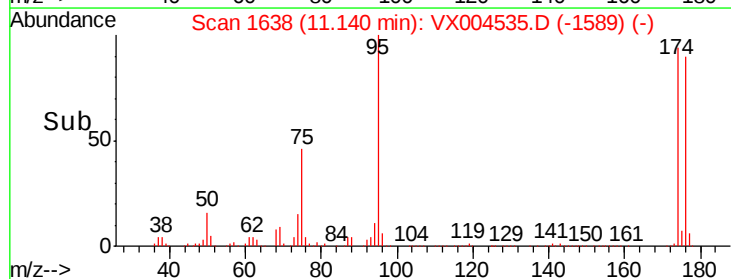
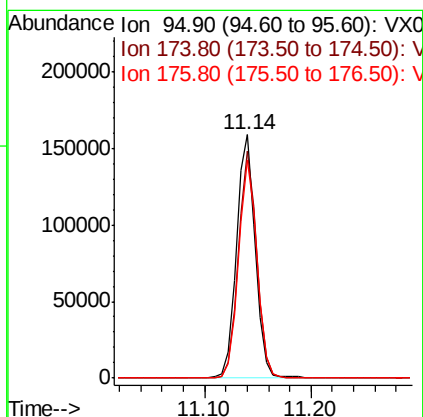
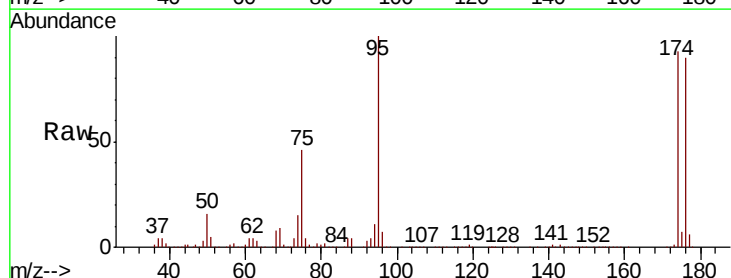
Tgt Ion: 95 Resp: 195495

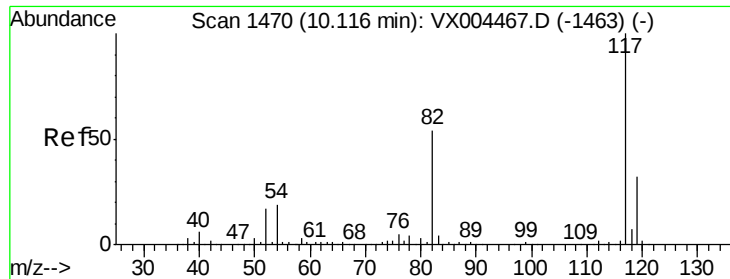
Ion Ratio Lower Upper

95 100

174 92.1 0.0 185.2

176 88.9 0.0 178.6





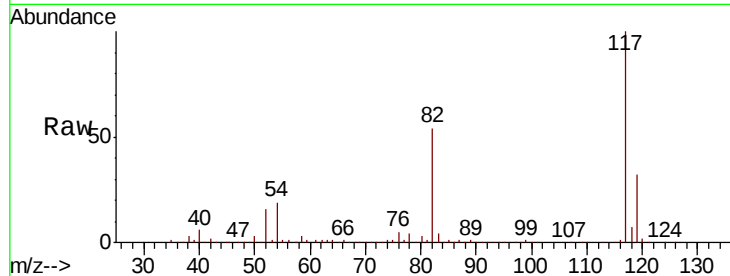
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004535.D
Acq: 14 Sep 2018 13:07

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-05-091218

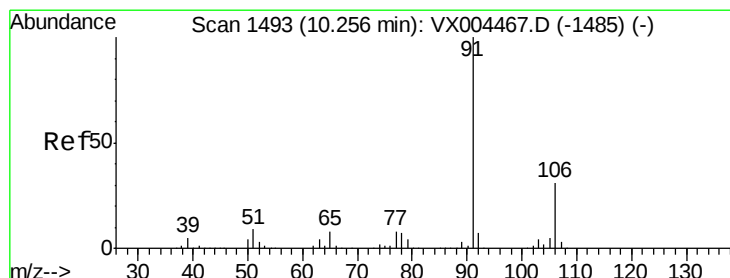
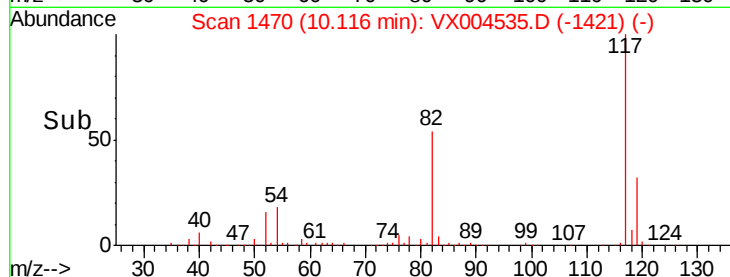
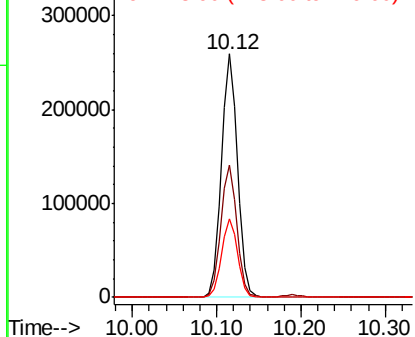
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.1	47.8	71.6
119	32.3	29.3	43.9

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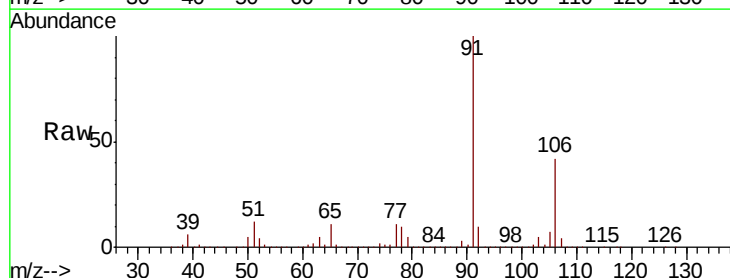


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

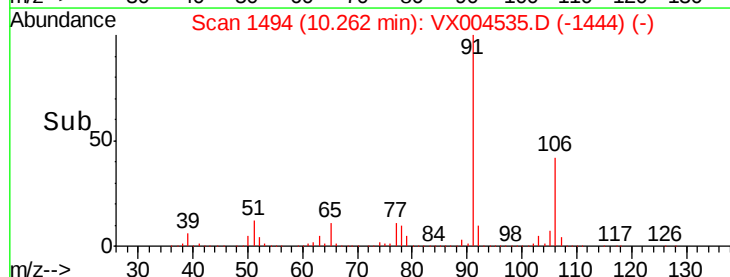
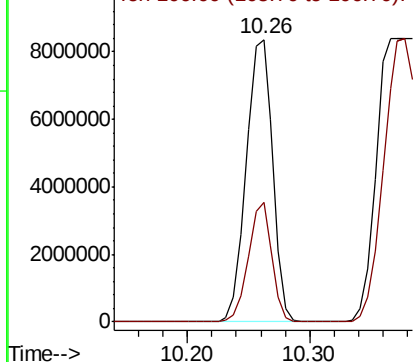


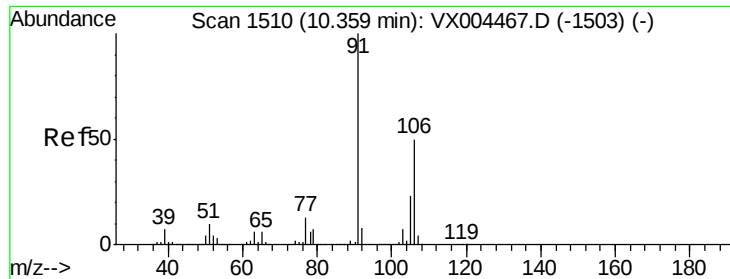
#67
Ethyl Benzene
Concen: 904.45 ug/l
RT: 10.26 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VX004535.D
Acq: 14 Sep 2018 13:07

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.1	25.9	38.9



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V





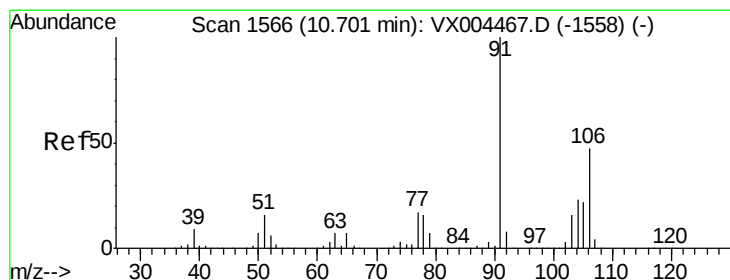
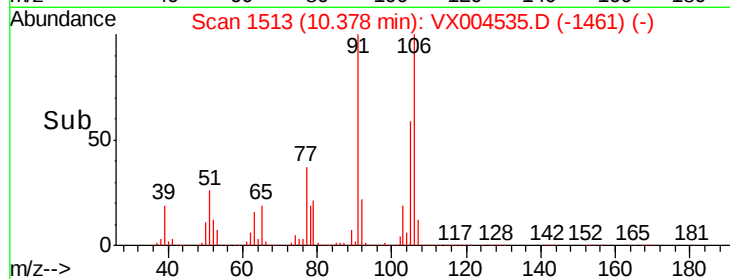
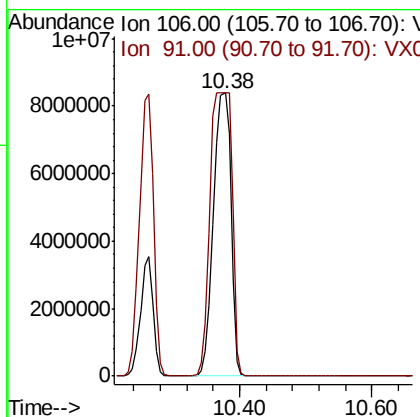
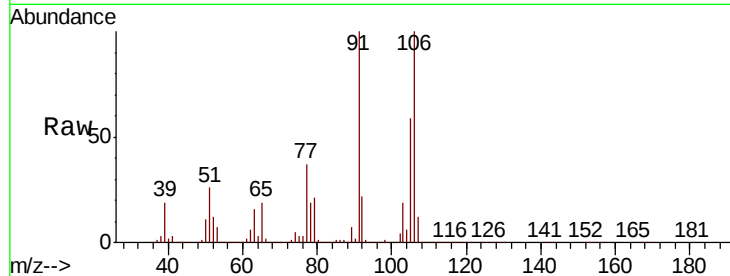
#68
m/p-Xvlenes
Concen: 2852.21 ug/l
RT: 10.38 min Scan# 1513
Delta R.T. 0.02 min
Lab File: VX004535.D
Acq: 14 Sep 2018 13:07

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-05-091218

Tot Ion:106 Resp:15250553
Ion Ratio Lower Upper
106 100
91 127.7 157.1 235.7#

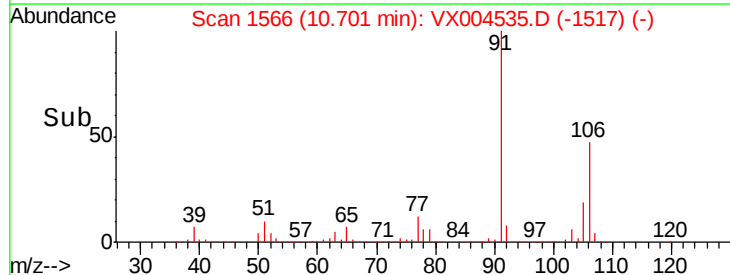
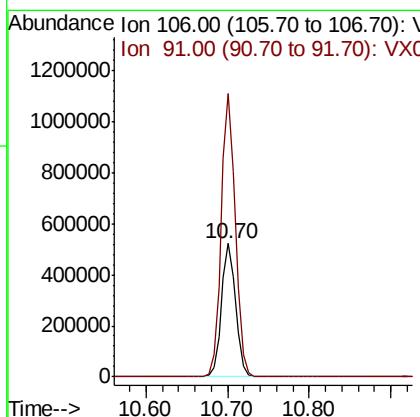
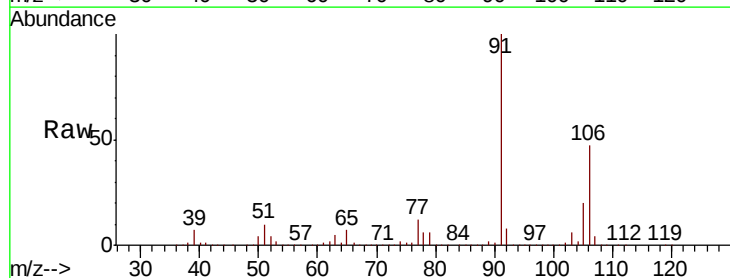
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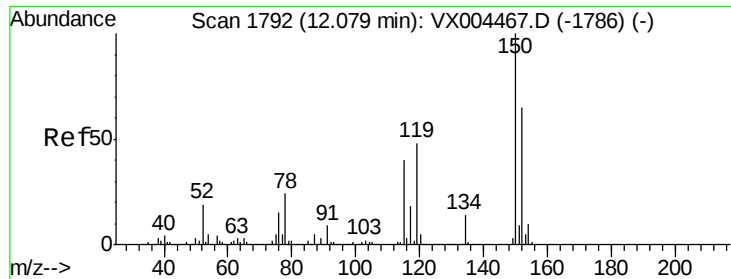
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#69
o-Xylene
Concen: 123.90 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VX004535.D
Acq: 14 Sep 2018 13:07

Tgt Ion:106 Resp: 636923
Ion Ratio Lower Upper
106 100
91 211.5 105.1 315.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

Instrument :

MSVOA_X

ClientSampled :

PR-MW-05-091218

Tot Ion:152 Resp: 209032

Ion Ratio Lower Upper

152 100

115 56.3 39.0 117.0

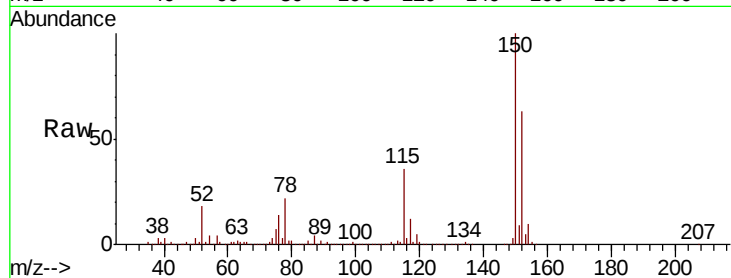
150 158.0 0.0 351.0

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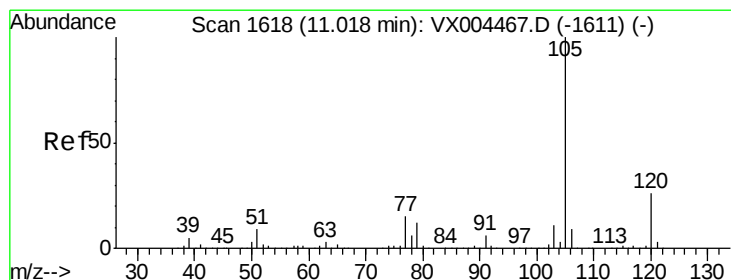
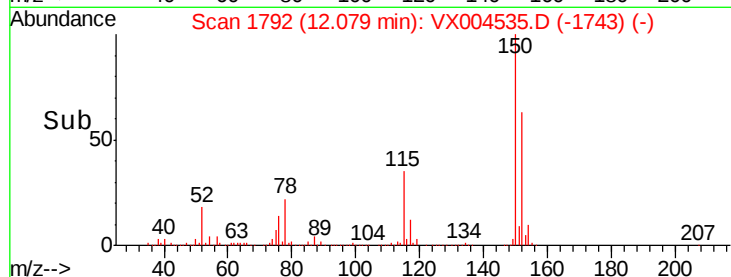
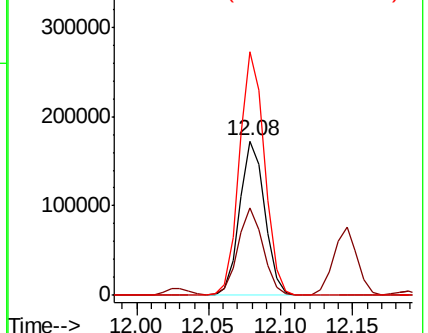
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 118.82 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX004535.D

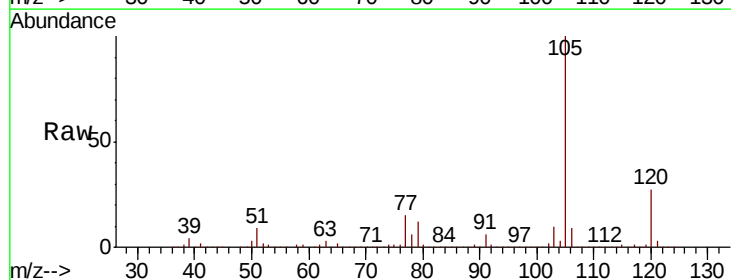
Acq: 14 Sep 2018 13:07

Tgt Ion:105 Resp: 1635746

Ion Ratio Lower Upper

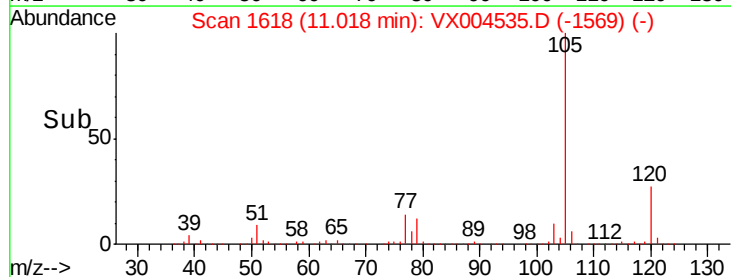
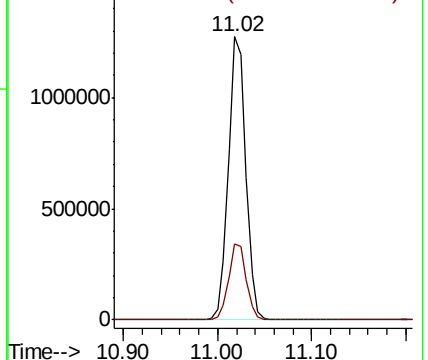
105 100

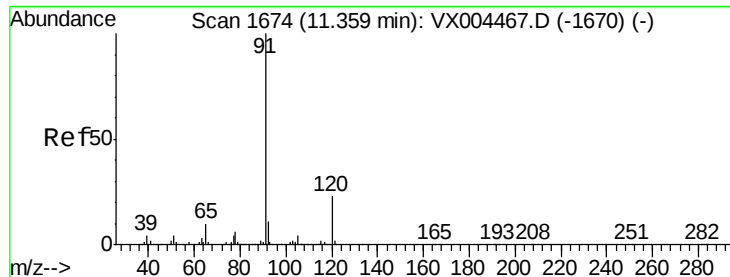
120 27.2 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 105.93 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-05-091218

Tot Ion: 91 Resp: 1676674

Ion Ratio Lower Upper

91 100

120 23.6

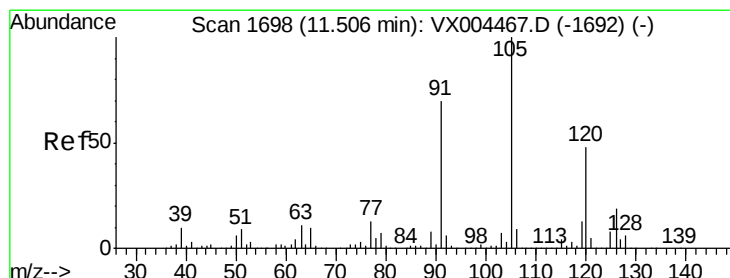
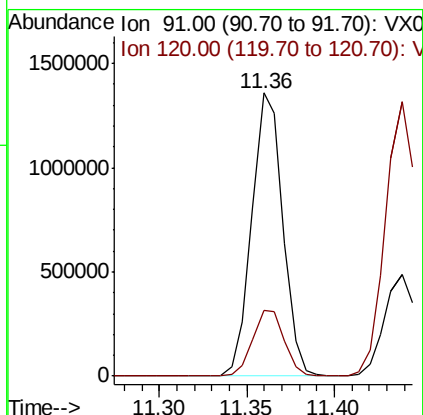
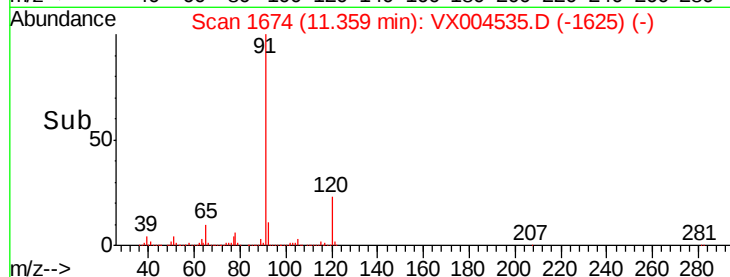
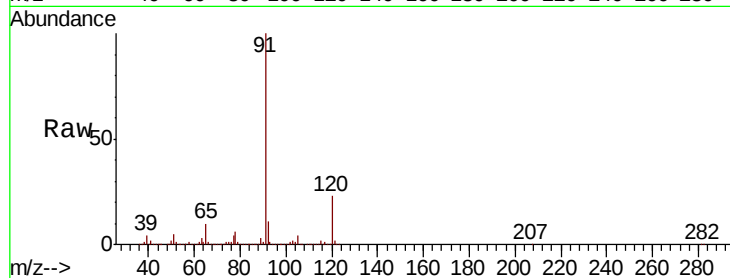
11.9

35.9

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#80

1,3,5-Trimethylbenzene

Concen: 212.79 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.01 min

Lab File: VX004535.D

Acq: 14 Sep 2018 13:07

Tgt Ion: 105 Resp: 2462662

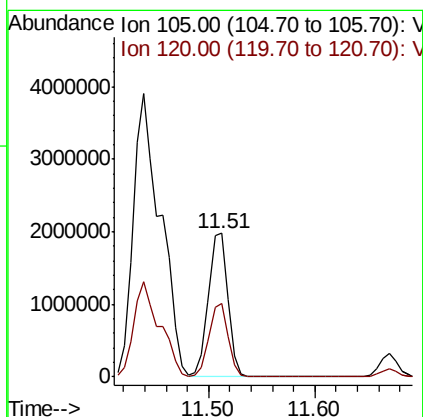
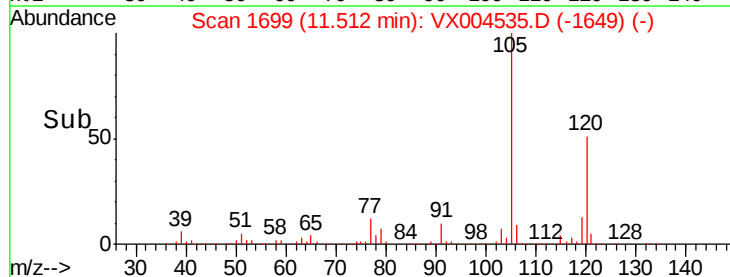
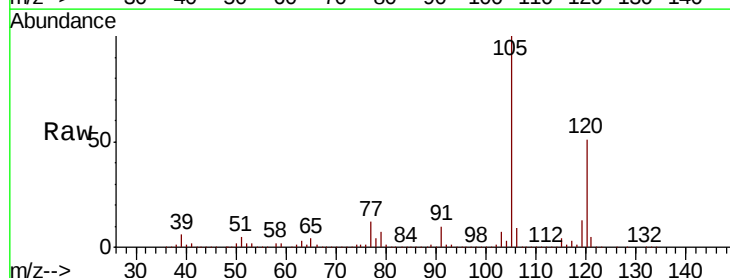
Ion Ratio Lower Upper

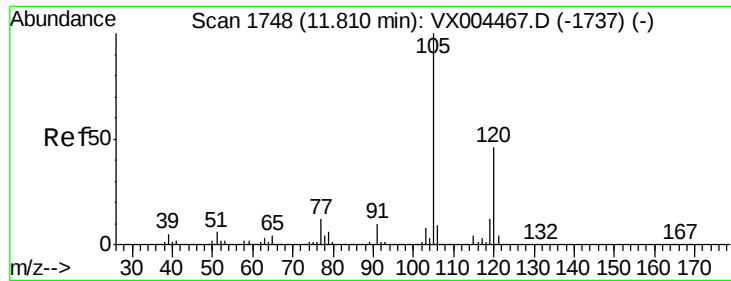
105 100

120 49.9

25.6

76.8





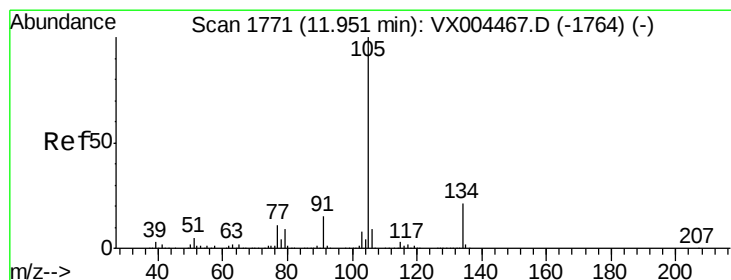
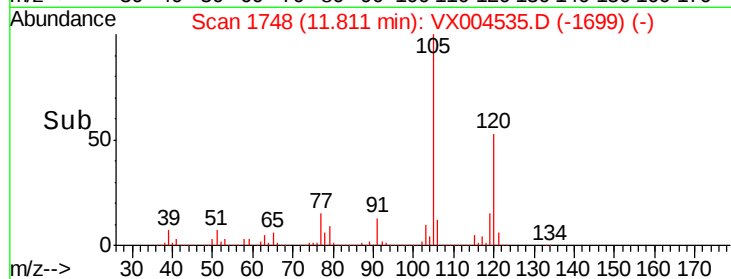
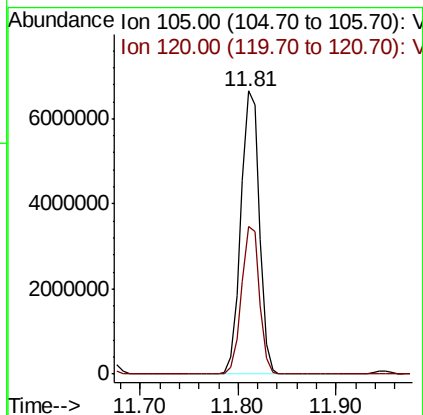
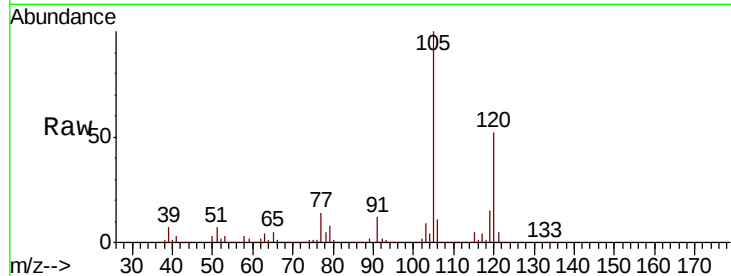
#84
 1,2,4-Trimethylbenzene
 Concen: 737.47 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.00 min
 Lab File: VX004535.D
 Acq: 14 Sep 2018 13:07

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-05-091218

Tot Ion:105 Resp: 8713913
 Ion Ratio Lower Upper
 105 100
 120 50.5 23.2 69.6

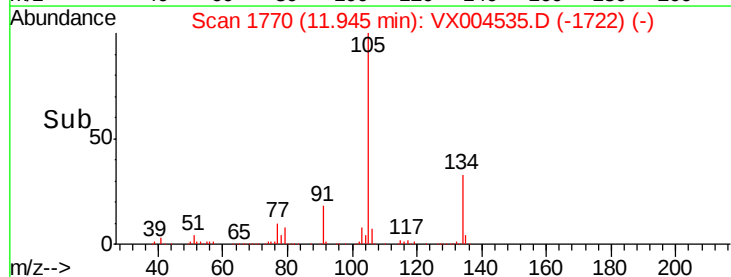
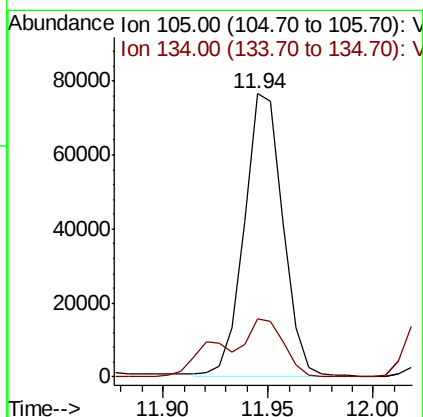
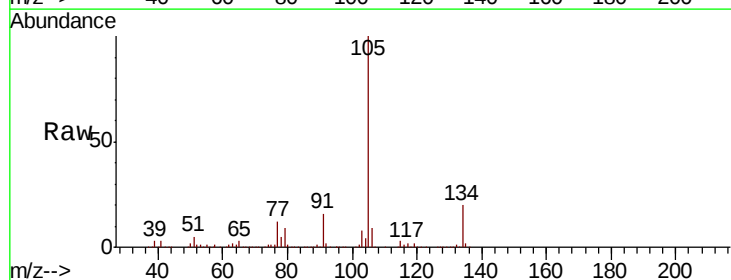
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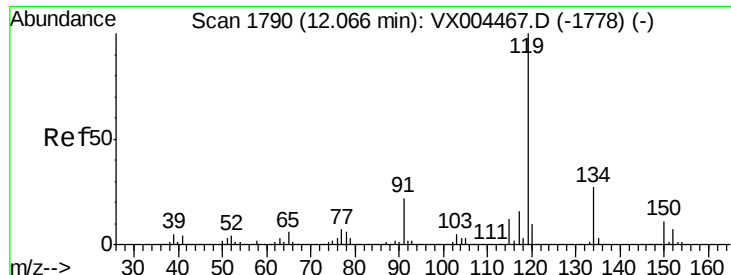
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#85
 sec-Butylbenzene
 Concen: 7.01 ug/l m
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.01 min
 Lab File: VX004535.D
 Acq: 14 Sep 2018 13:07

Tgt Ion:105 Resp: 98454
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.5 31.5#





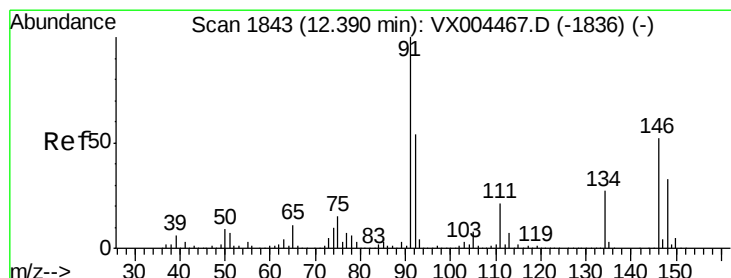
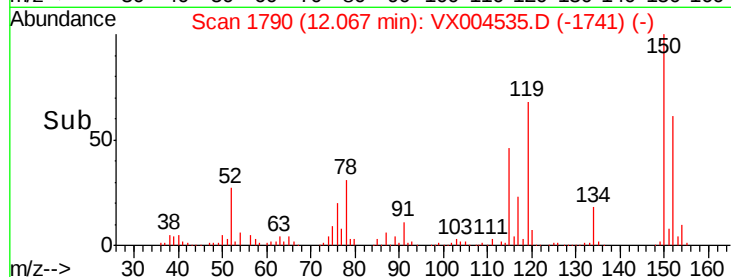
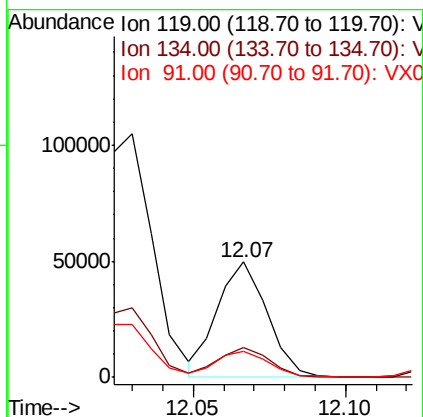
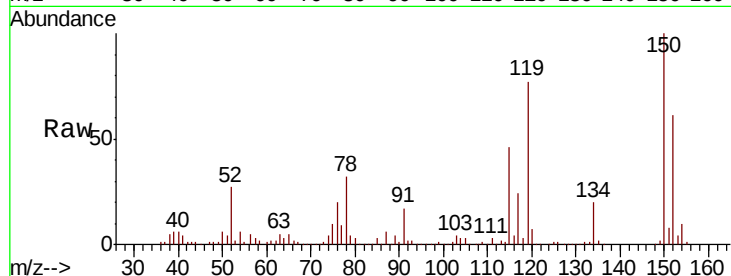
#86
p-Isopropyltoluene
Concen: 4.58 ug/l m
RT: 12.07 min Scan# 1790
Delta R.T. 0.00 min
Lab File: VX004535.D
Acq: 14 Sep 2018 13:07

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-05-091218

Tot Ion	Ratio	Resp	Lower	Upper
119	100	56815		
134	65.5	13.4	40.2#	
91	51.5	10.9	32.7#	

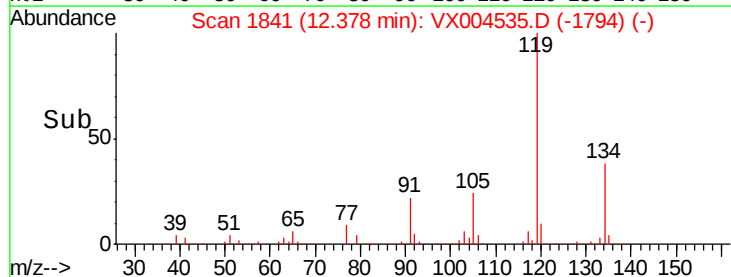
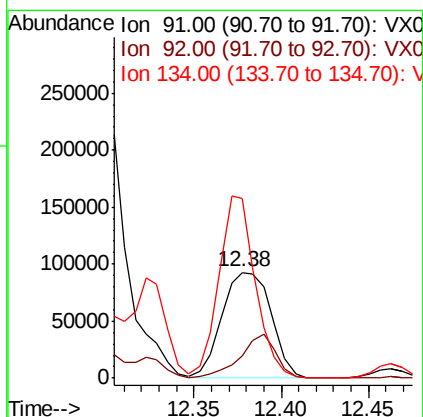
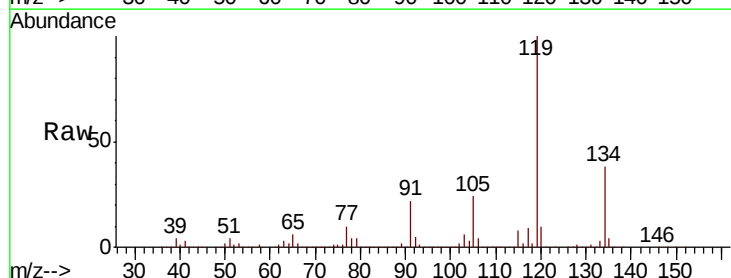
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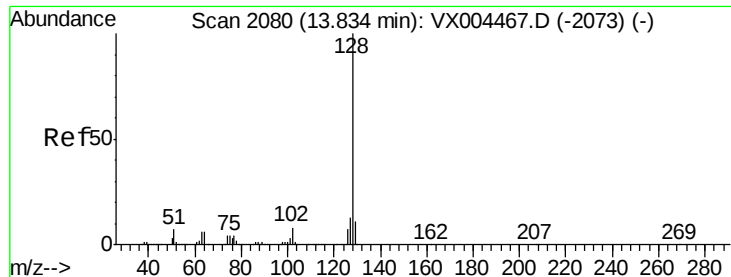
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#89
n-Butylbenzene
Concen: 15.89 ug/l
RT: 12.38 min Scan# 1841
Delta R.T. -0.01 min
Lab File: VX004535.D
Acq: 14 Sep 2018 13:07

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	179507		
92	30.2	27.3	81.9	
134	128.7	13.6	40.7#	





#95
Naphthalene
Concen: 242.89 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX004535.D
Acq: 14 Sep 2018 13:07

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-05-091218

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	11.2	8.6	12.8

Manual Integrations
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