

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072619\
 Data File : VX011092.D
 Acq On : 26 Jul 2019 15:49
 Operator : JC/SP
 Sample : K4014-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-7

Manual Integrations
 APPROVED

MMDadoda
 7/29/2019 11:53:34 AM

Quant Time: Jul 27 03:32:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	209196	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	332125	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	316767	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	170528	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	111517	50.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.22%	
35) Dibromofluoromethane	5.50	113	101745	48.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.52%	
50) Toluene-d8	8.71	98	401024	50.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.44%	
62) 4-Bromofluorobenzene	11.13	95	155761	53.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.20%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	3.04	59	2370	4.573	ug/l #	73
16) Acetone	2.44	43	6730	6.695	ug/l	100
17) Carbon Disulfide	2.57	76	2300	0.481	ug/l #	82
25) 2-Butanone	4.69	43	6094	4.223	ug/l	93
31) Cyclohexane	5.59	56	1283320	424.694	ug/l	98
39) Methylcyclohexane	7.46	83	667724	188.739	ug/l	99
40) Benzene	6.14	78	10509	1.258	ug/l	93
52) Toluene	8.78	92	45832	8.349	ug/l	96
67) Ethyl Benzene	10.25	91	3027545	273.386	ug/l	100
68) m/p-Xylenes	10.36	106	2275999	535.784	ug/l	100
69) o-Xylene	10.69	106	293605	70.820	ug/l	98
73) Isopropylbenzene	11.02	105	277450	24.079	ug/l	100
78) n-propylbenzene	11.36	91	782440	61.457	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	808973	84.021	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	2653572	273.442	ug/l	100
85) sec-Butylbenzene	11.94	105	40036m	3.613	ug/l	
86) p-Isopropyltoluene	12.06	119	19127m	1.867	ug/l	
89) n-Butylbenzene	12.37	91	97111	11.080	ug/l #	18
95) Naphthalene	13.83	128	718601	65.687	ug/l	100

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

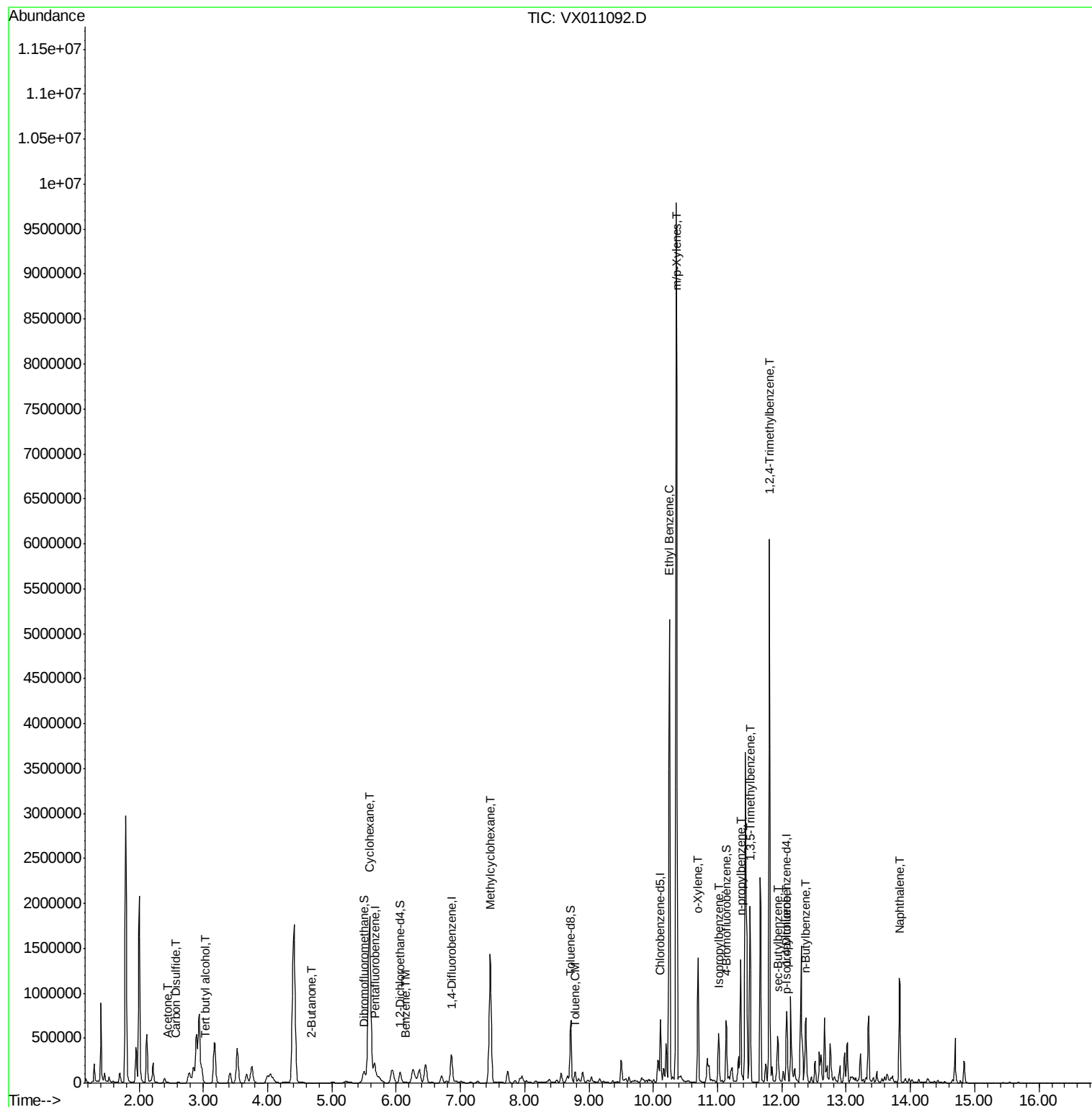
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072619\
Data File : VX011092.D
Acq On : 26 Jul 2019 15:49
Operator : JC/SP
Sample : K4014-07
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 15 Sample Multiplier: 1

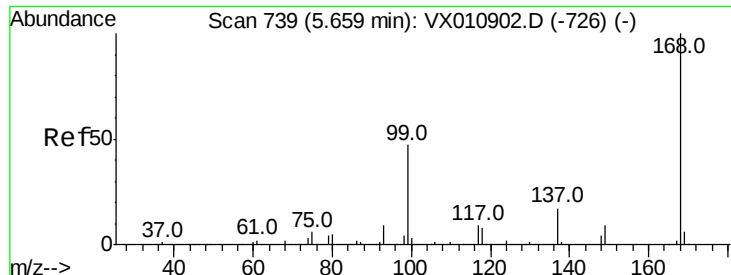
Instrument :
MSVOA_X
ClientSampleId :
MW-7

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Quant Time: Jul 27 03:32:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

MW-7

Tot Ion:168 Resp: 209196

Ion Ratio Lower Upper

168 100

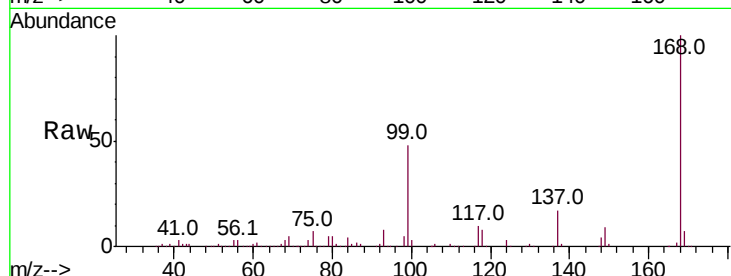
99 47.8 37.6 56.4

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

80000

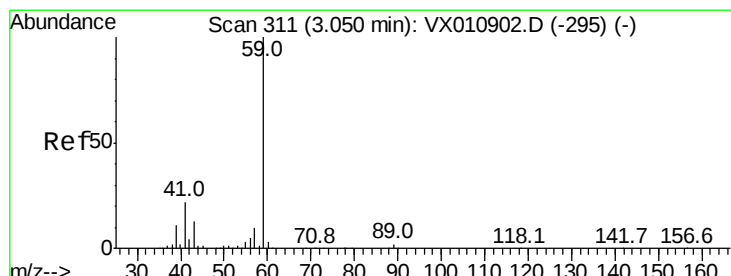
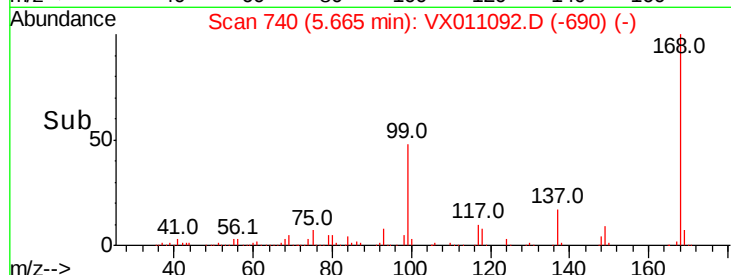
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 4.573 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX011092.D

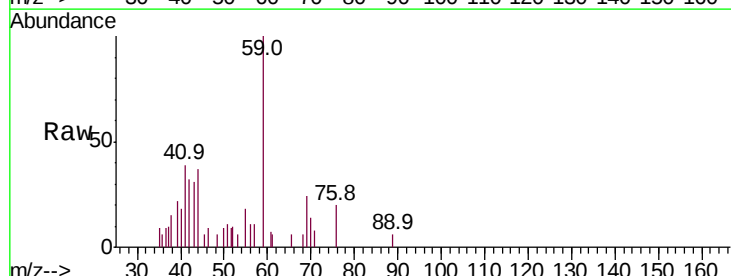
Acq: 26 Jul 2019 15:49

Tgt Ion: 59 Resp: 2370

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

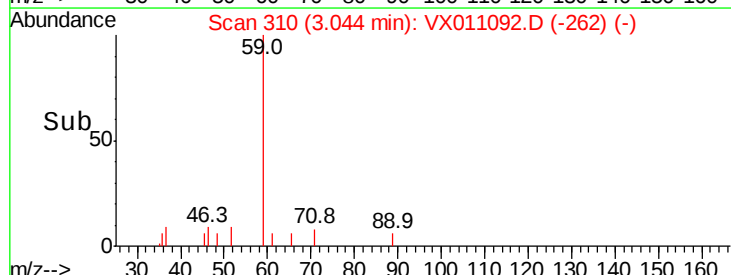
150000

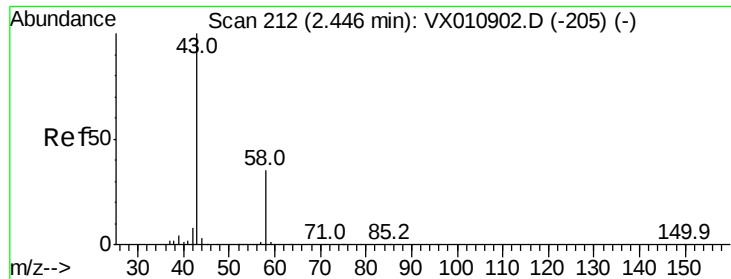
100000

50000

0

Time--> 2.90 3.00 3.10





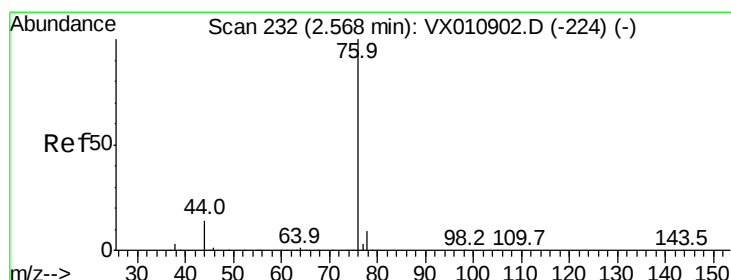
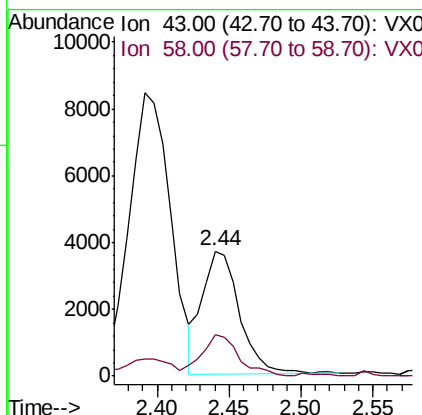
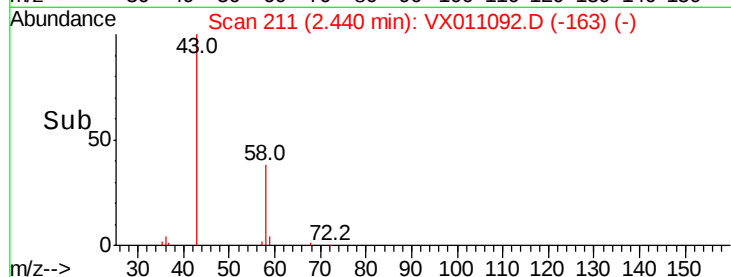
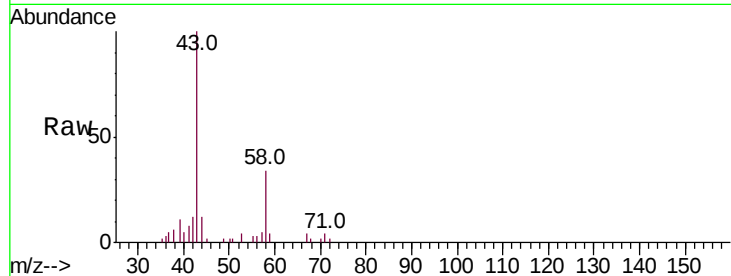
#16
Acetone
Concen: 6.695 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX011092.D
Acq: 26 Jul 2019 15:49

Instrument :
MSVOA_X
ClientSampled :
MW-7

Tot Ion: 43 Resp: 6730
Ion Ratio Lower Upper
43 100
58 34.4 27.7 41.5

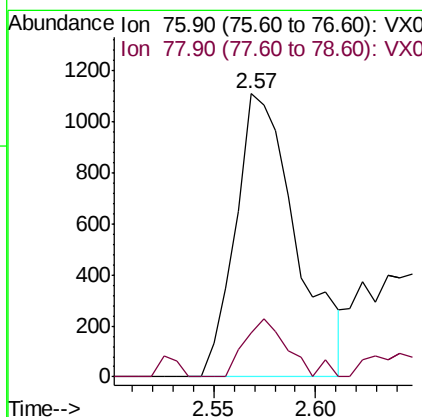
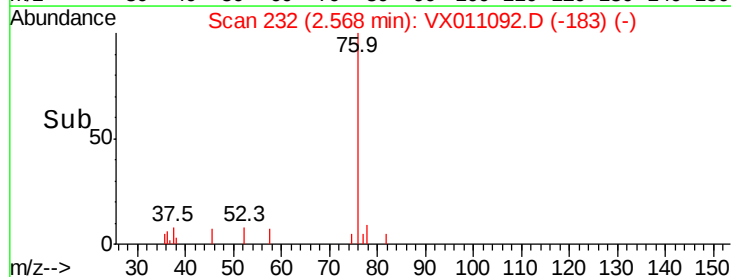
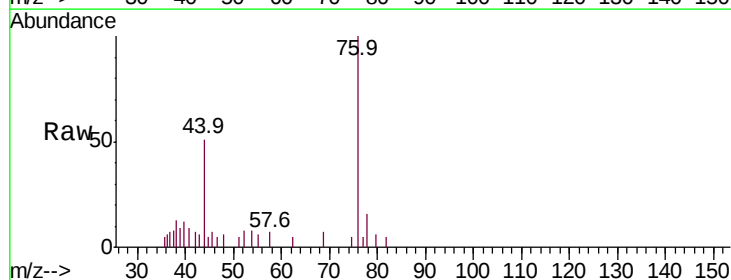
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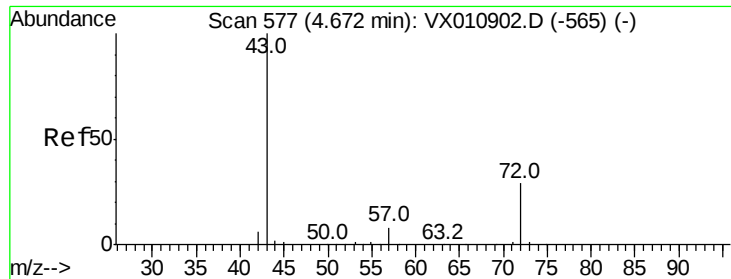
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#17
Carbon Disulfide
Concen: 0.481 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX011092.D
Acq: 26 Jul 2019 15:49

Tgt Ion: 76 Resp: 2300
Ion Ratio Lower Upper
76 100
78 15.7 7.4 11.0#





#25

2-Butanone

Concen: 4.223 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

MW-7

Tot Ion: 43 Resp: 6094

Ion Ratio Lower Upper

43 100

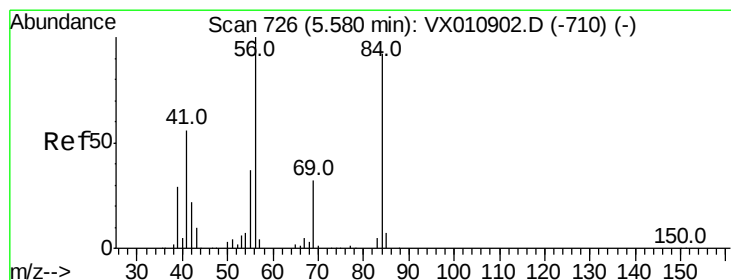
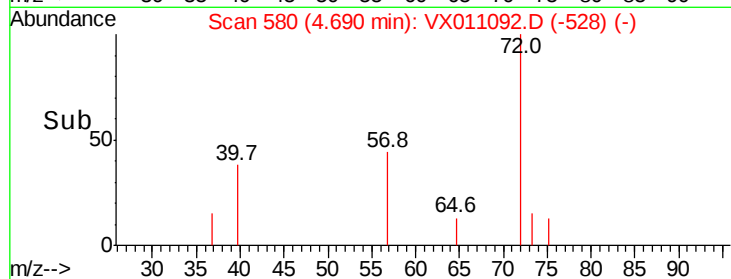
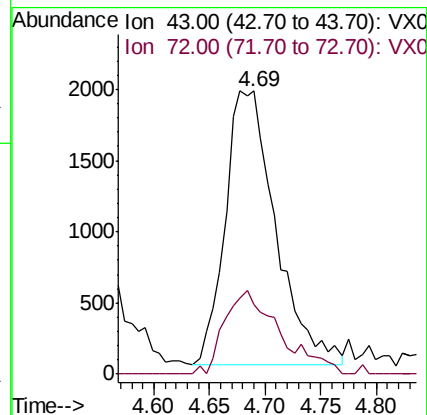
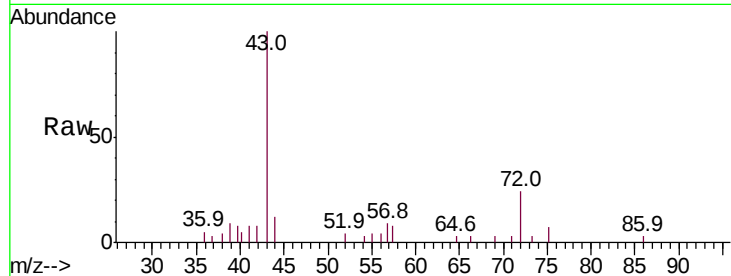
72 25.3 23.0 34.6

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#31

Cyclohexane

Concen: 424.694 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

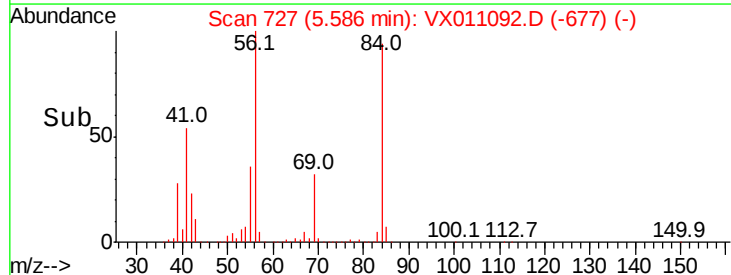
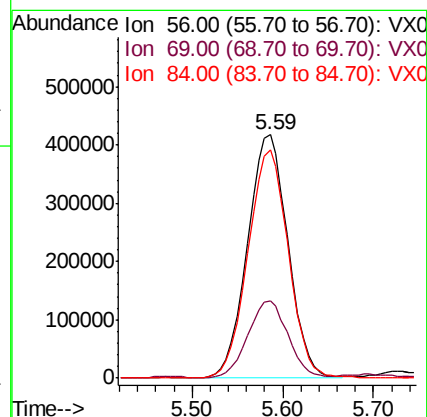
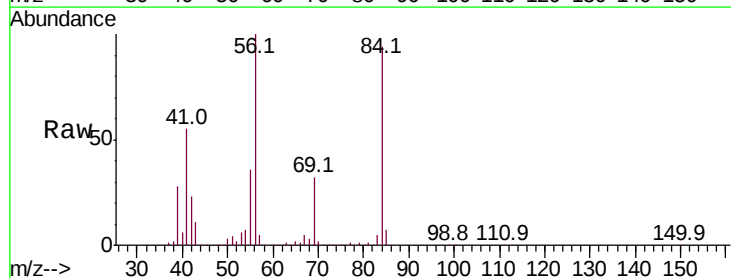
Tgt Ion: 56 Resp: 1283320

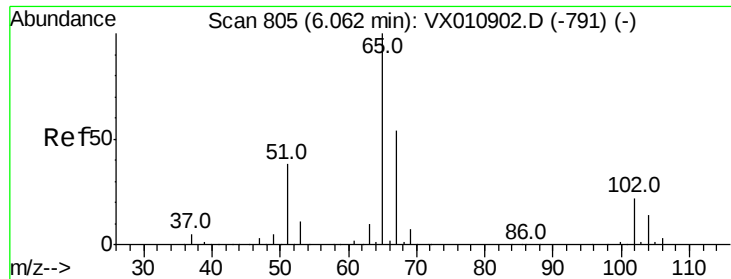
Ion Ratio Lower Upper

56 100

69 31.6 25.8 38.8

84 93.8 73.8 110.6





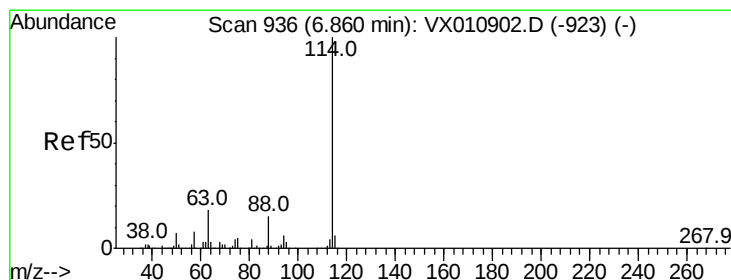
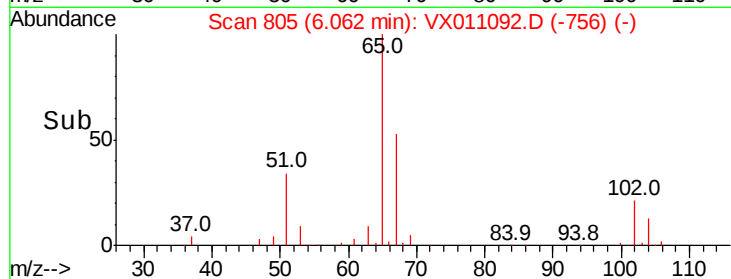
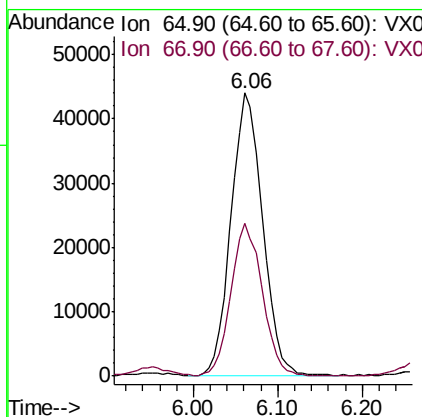
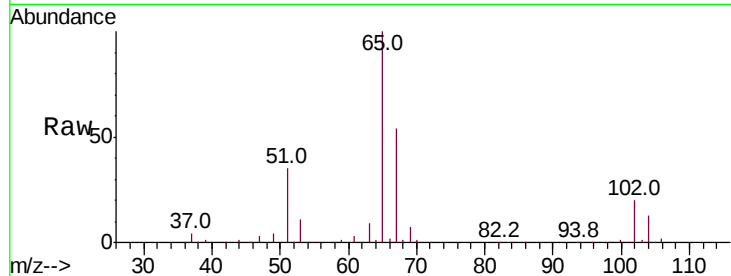
#33
 1,2-Dichloroethane-d4
 Concen: 50.108 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX011092.D
 Acq: 26 Jul 2019 15:49

Instrument :
 MSVOA_X
 ClientSampled :
 MW-7

Tot Ion	Ratio	Resp	Lower	Upper
65	100	111517		
67	53.2	0.0	107.8	

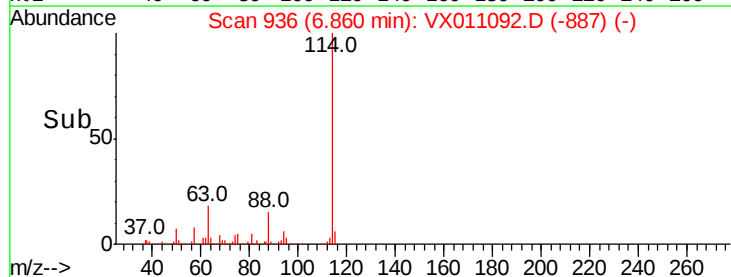
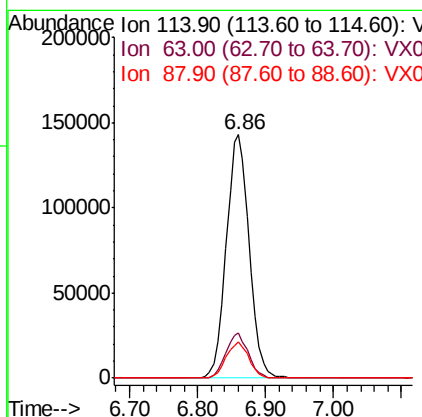
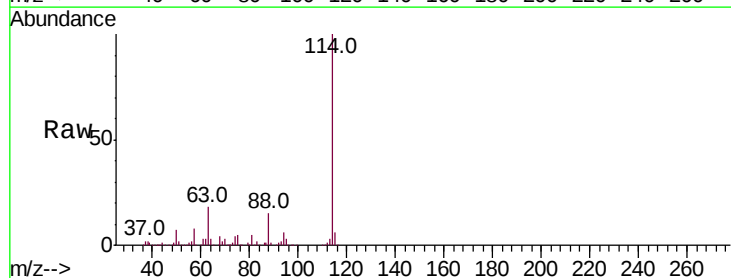
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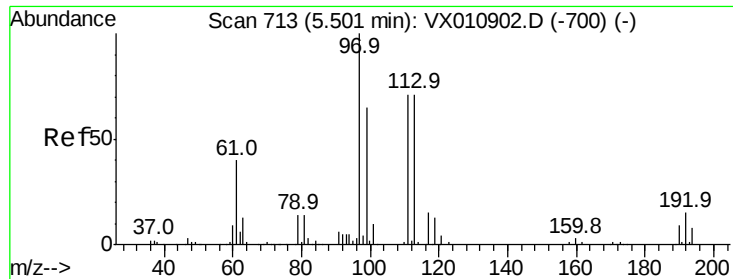
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX011092.D
 Acq: 26 Jul 2019 15:49

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	332125		
63	18.4	0.0	35.6	
88	14.8	0.0	29.8	





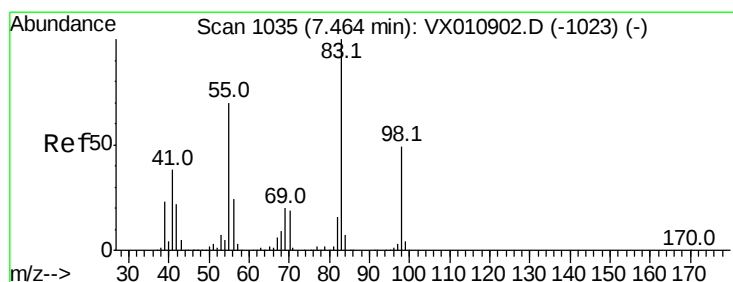
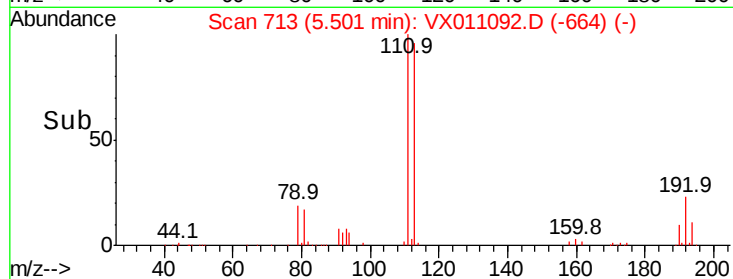
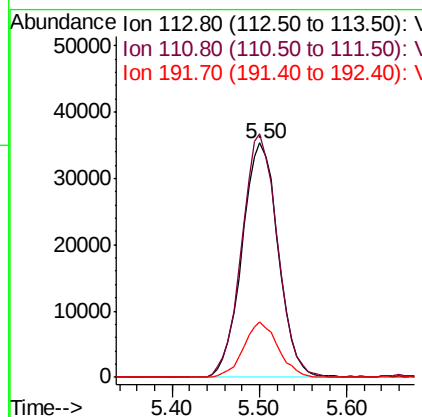
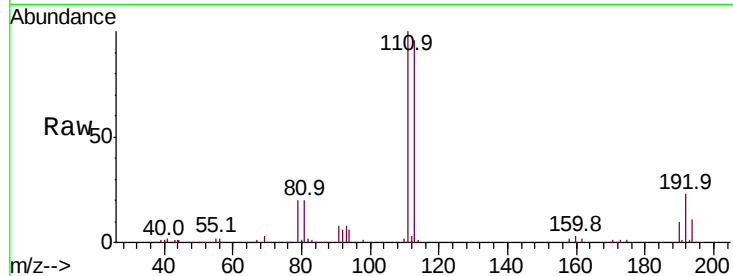
#35
 Dibromofluoromethane
 Concen: 48.265 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX011092.D
 Acq: 26 Jul 2019 15:49

Instrument :
 MSVOA_X
 ClientSampled :
 MW-7

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.3	123.5
192	22.5	17.4	26.2

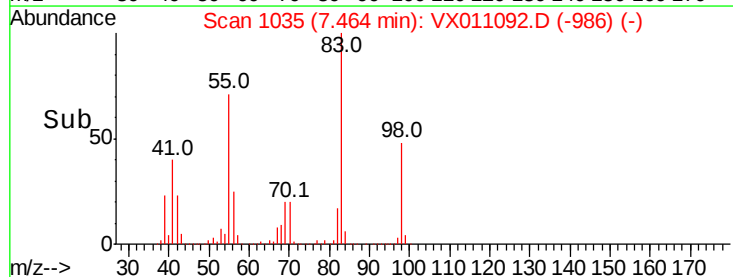
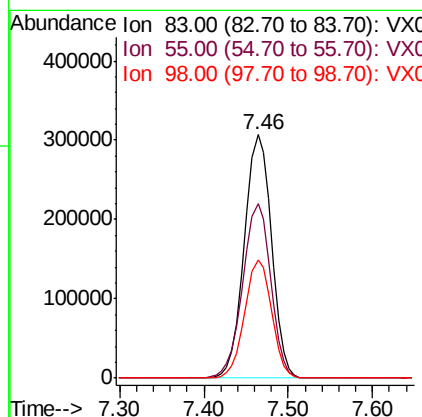
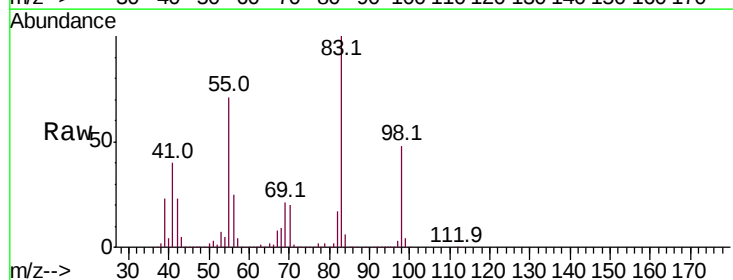
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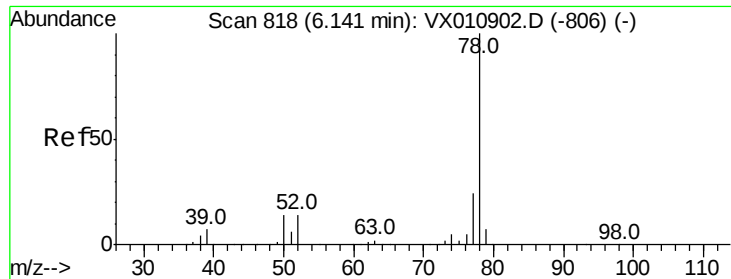
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#39
 Methylcyclohexane
 Concen: 188.739 ug/l
 RT: 7.46 min Scan# 1035
 Delta R.T. 0.00 min
 Lab File: VX011092.D
 Acq: 26 Jul 2019 15:49

Tgt Ion	Ratio	Lower	Upper
83	100		
55	71.4	56.2	84.4
98	48.4	39.0	58.4





#40

Benzene

Concen: 1.258 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

MW-7

Tot Ion: 78 Resp: 10509

Ion Ratio Lower Upper

78 100

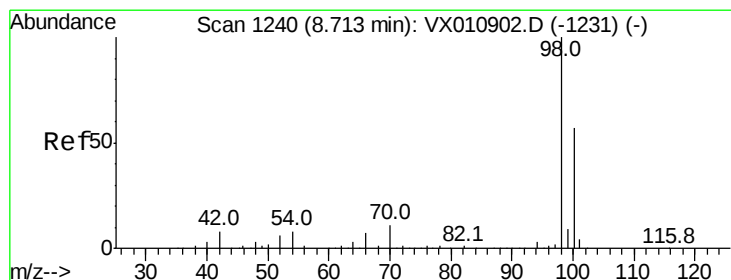
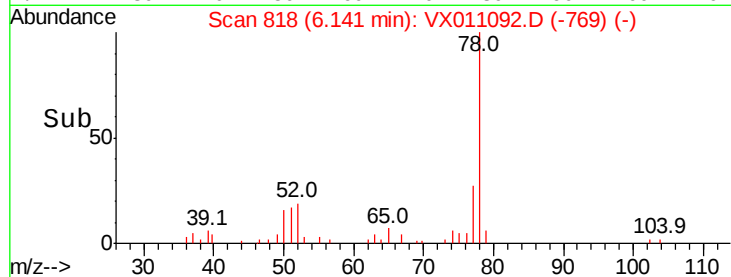
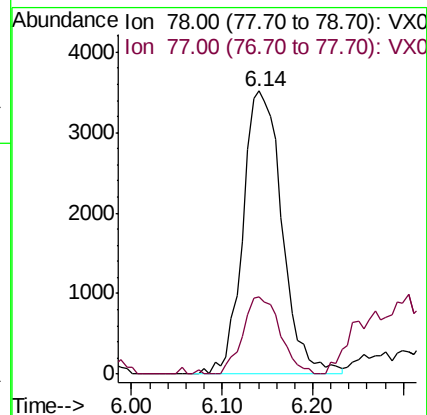
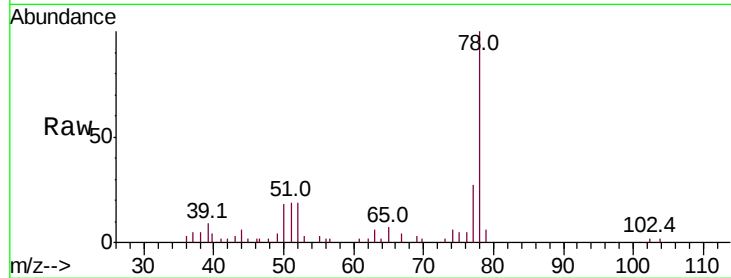
77 27.5 19.0 28.6

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#50

Toluene-d8

Concen: 50.720 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011092.D

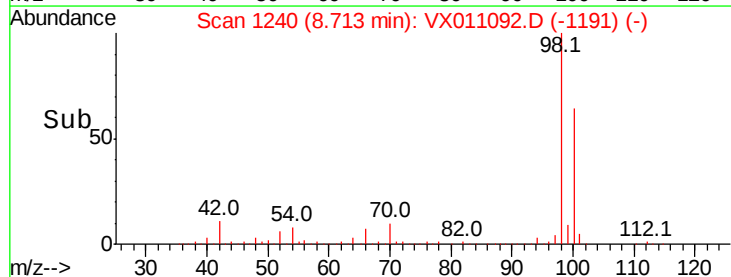
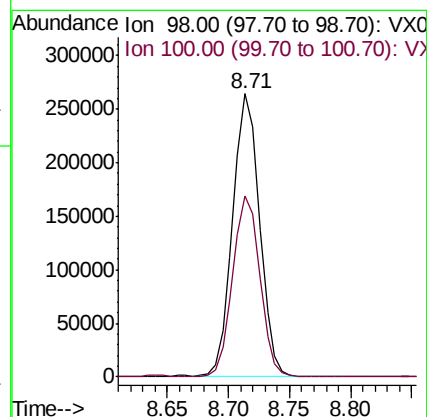
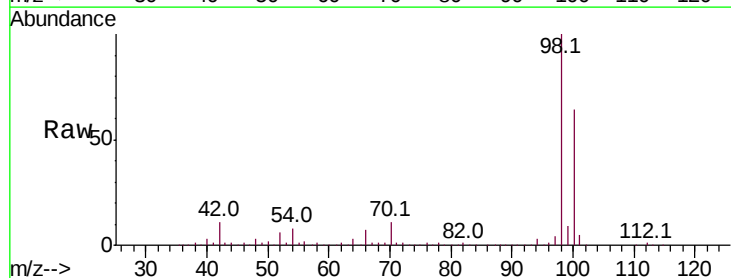
Acq: 26 Jul 2019 15:49

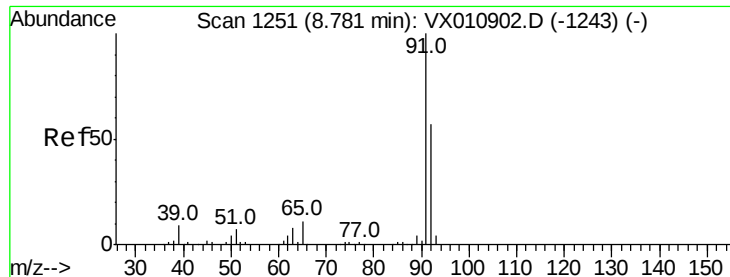
Tgt Ion: 98 Resp: 401024

Ion Ratio Lower Upper

98 100

100 64.7 50.6 75.8





#52

Toluene

Concen: 8.349 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

MW-7

Tot Ion: 92 Resp: 45832

Ion Ratio Lower Upper

92 100

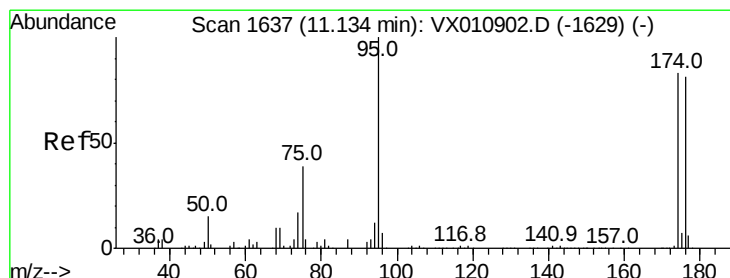
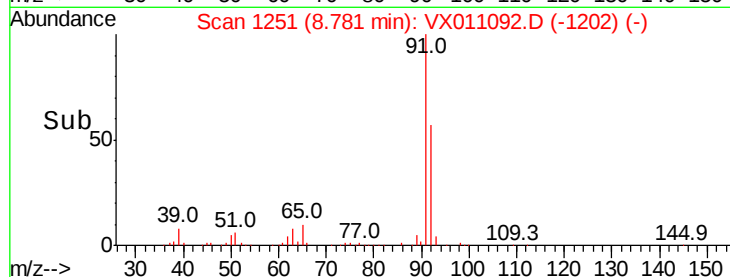
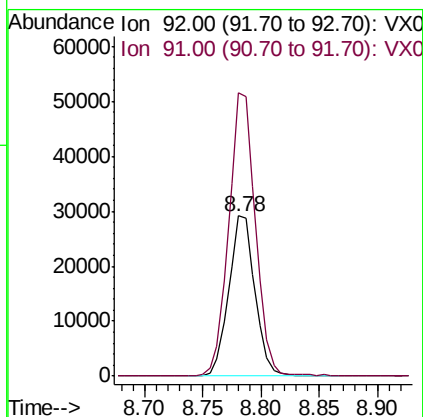
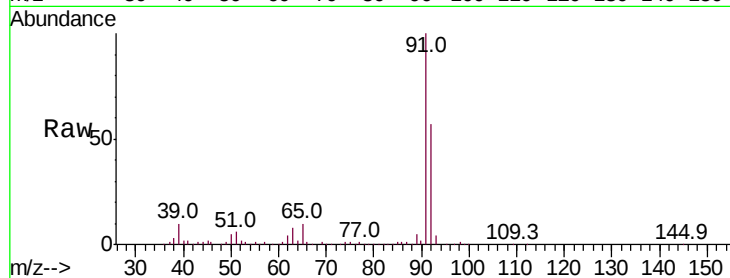
91 179.3 139.4 209.0

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#62

4-Bromofluorobenzene

Concen: 53.596 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

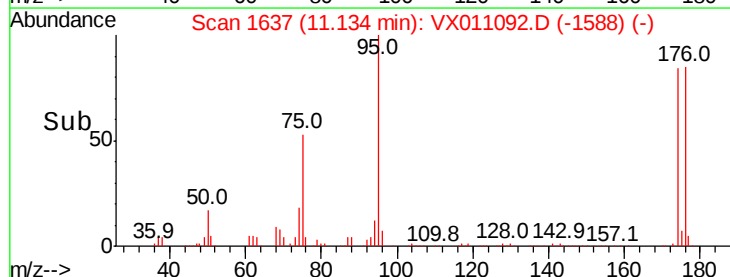
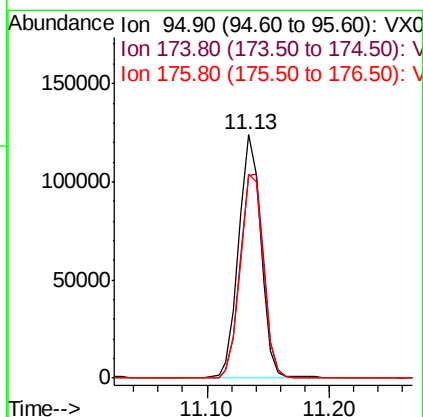
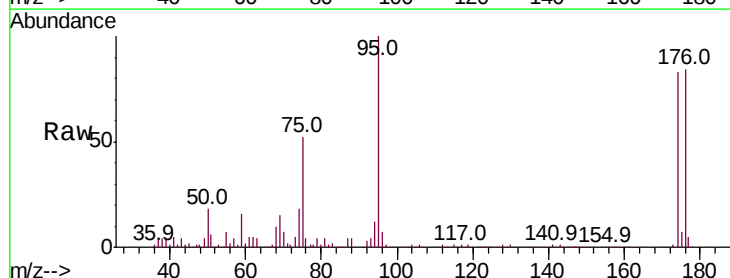
Tgt Ion: 95 Resp: 155761

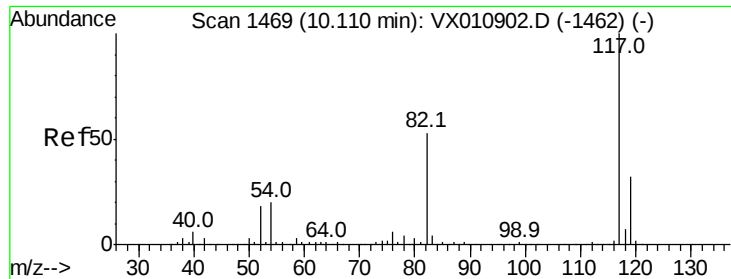
Ion Ratio Lower Upper

95 100

174 89.0 0.0 180.6

176 86.6 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Instrument :

MSVOA_X

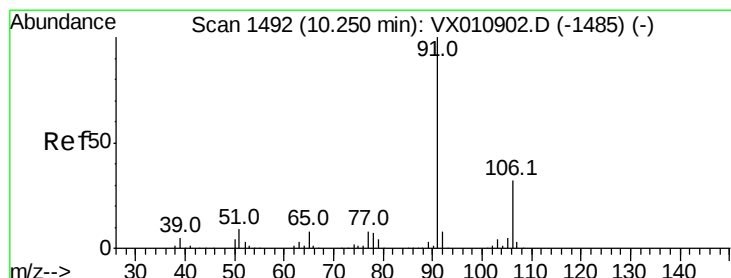
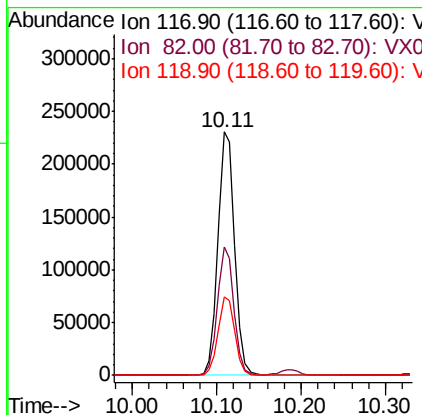
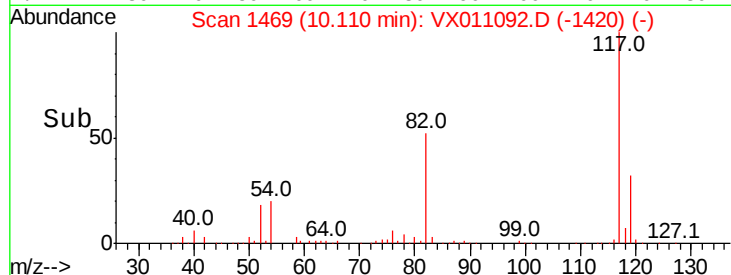
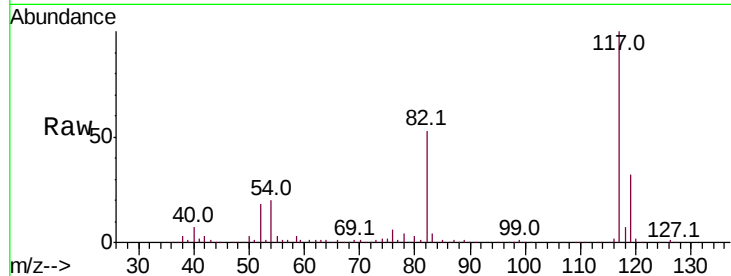
ClientSampled :

MW-7

Tot Ion:	117	Resp:	316767
Ion Ratio	Lower	Upper	
117	100		
82	52.5	42.6	63.8
119	32.0	25.9	38.9

Manual Integrations
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#67

Ethyl Benzene

Concen: 273.386 ug/l

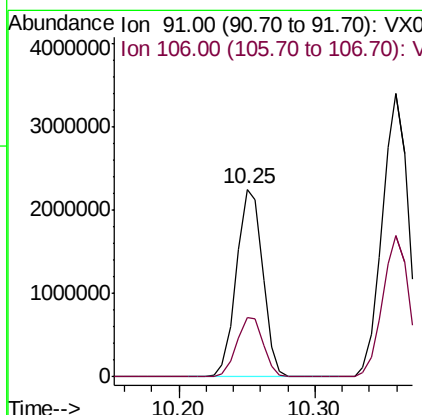
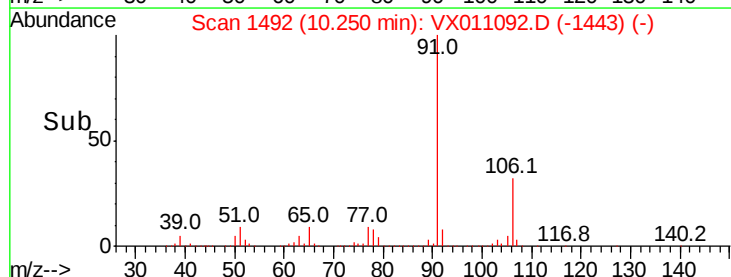
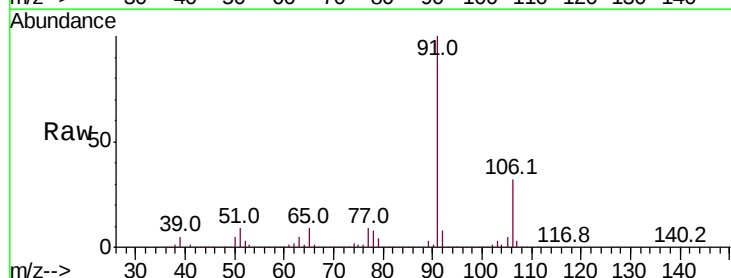
RT: 10.25 min Scan# 1492

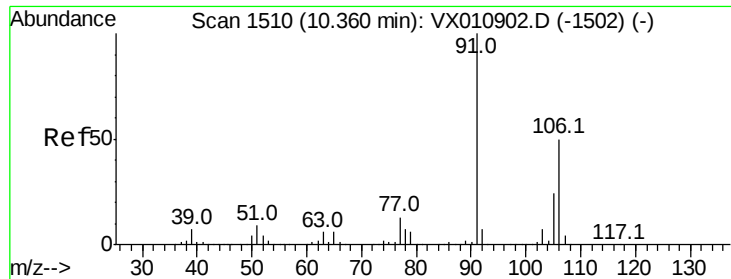
Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Tgt Ion:	91	Resp:	3027545
Ion Ratio	Lower	Upper	
91	100		
106	31.8	25.4	38.2





#68

m/p-Xylenes

Concen: 535.784 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

MW-7

Tot Ion:106 Resp: 2275999

Ion Ratio Lower Upper

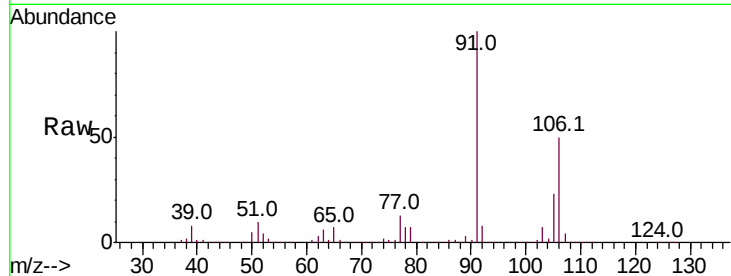
106 100

91 199.7 160.1 240.1

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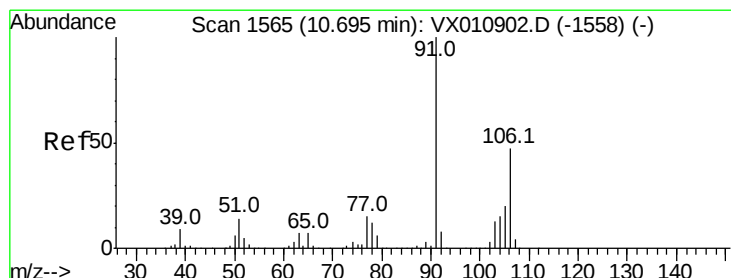
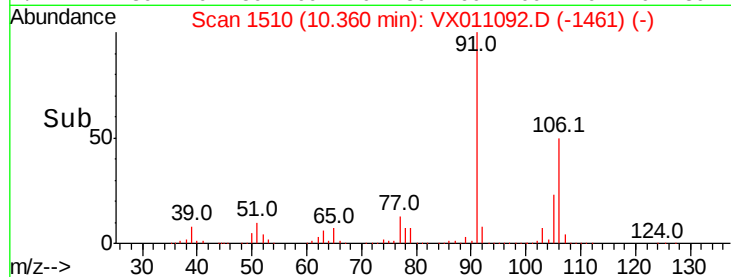
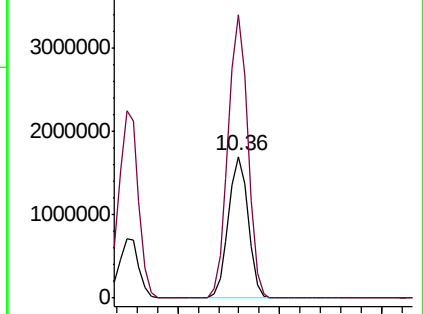
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 70.820 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VX011092.D

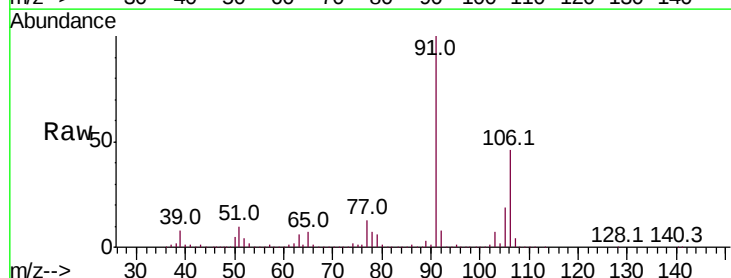
Acq: 26 Jul 2019 15:49

Tgt Ion:106 Resp: 293605

Ion Ratio Lower Upper

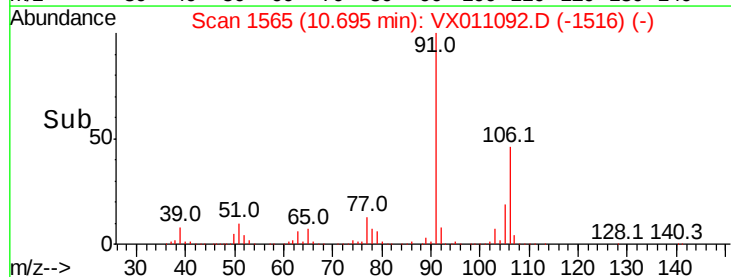
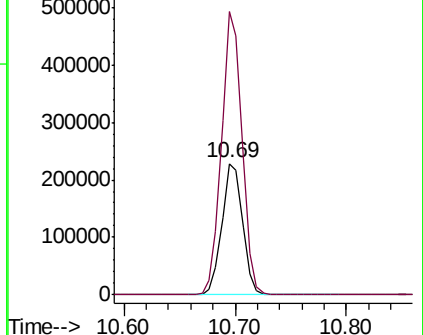
106 100

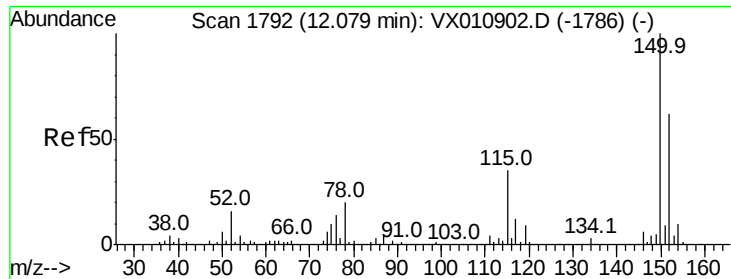
91 212.8 105.1 315.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Instrument :

MSVOA_X

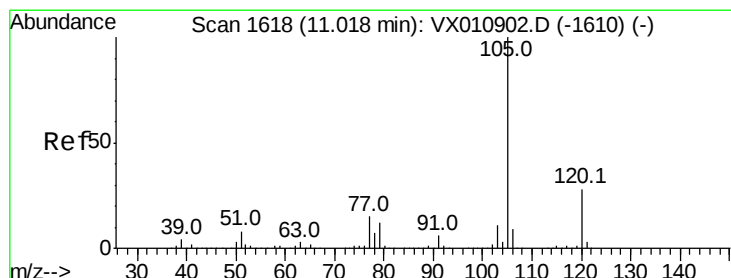
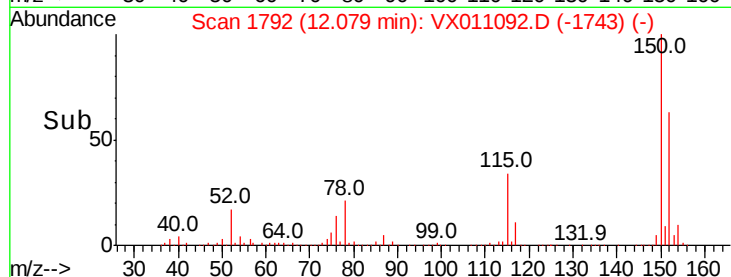
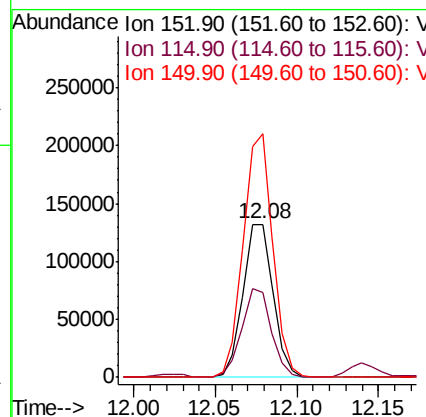
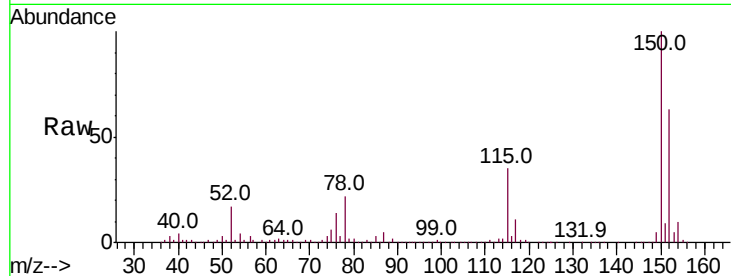
ClientSampled :

MW-7

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.4	39.7	119.1
150	155.2	0.0	345.6

Manual Integrations
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#73

Isopropylbenzene

Concen: 24.079 ug/l

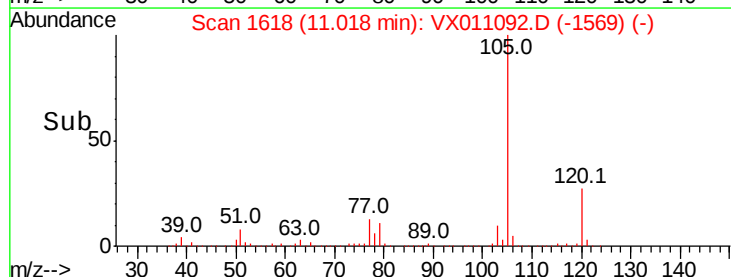
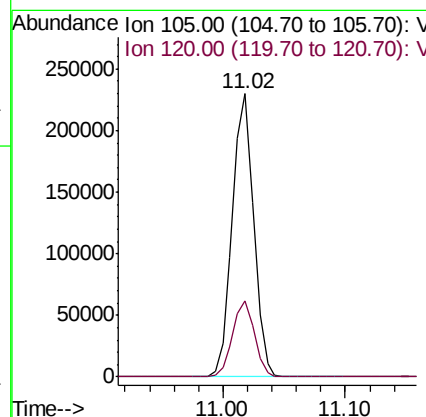
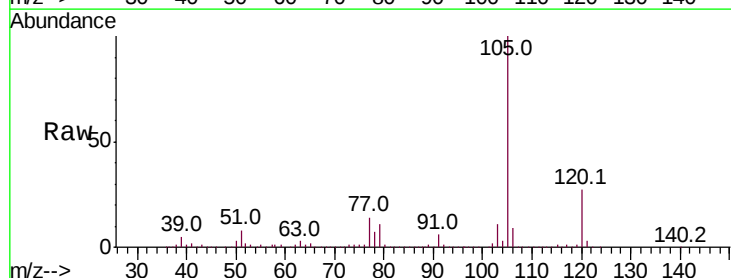
RT: 11.02 min Scan# 1618

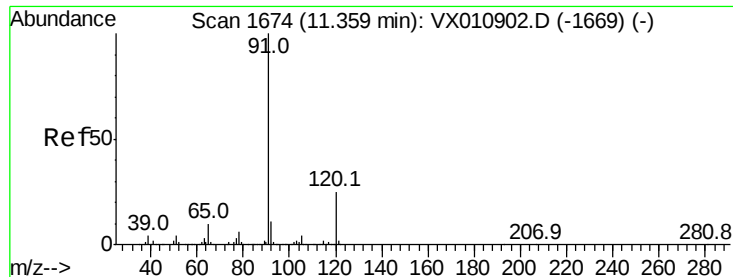
Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.7	41.1





#78

n-propylbenzene

Concen: 61.457 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

MW-7

Tot Ion: 91 Resp: 782440

Ion Ratio Lower Upper

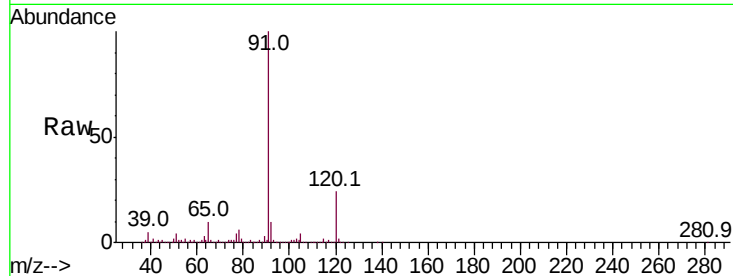
91 100

120 24.0 12.3 36.8

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VX011092.D (-1669) (-)

Ion 120.00 (119.70 to 120.70): VX011092.D (-1669) (-)

11.36

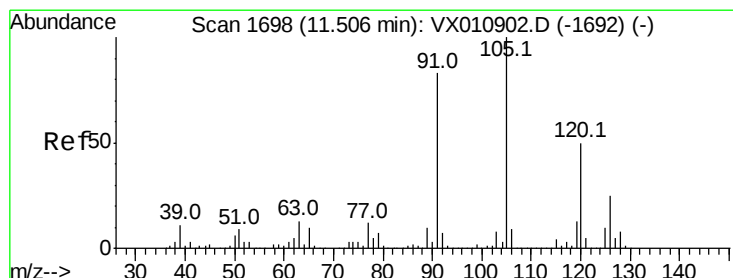
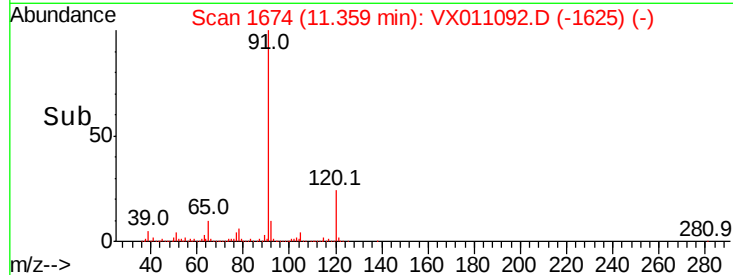
600000

400000

200000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 84.021 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX011092.D

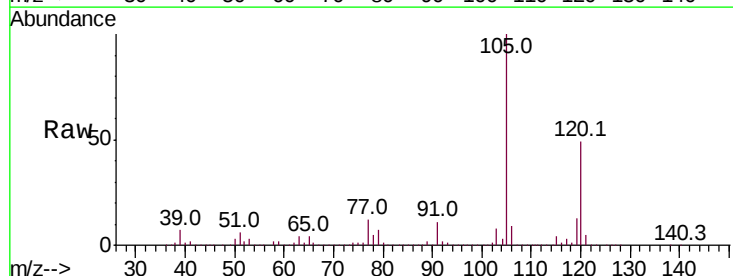
Acq: 26 Jul 2019 15:49

Tgt Ion:105 Resp: 808973

Ion Ratio Lower Upper

105 100

120 48.6 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): VX011092.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX011092.D (-1692) (-)

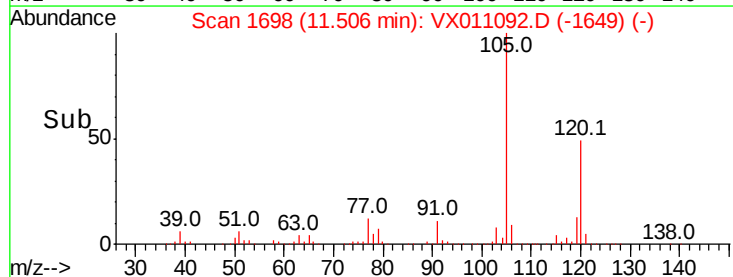
11.51

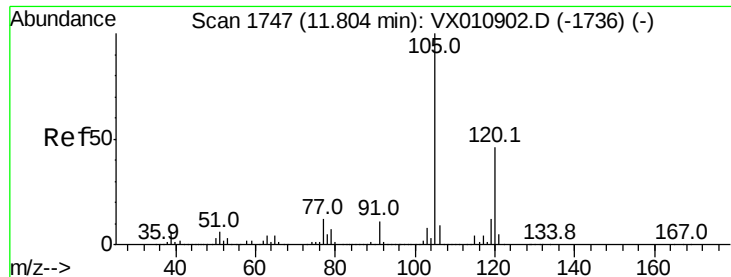
1000000

500000

0

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 273.442 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX011092.D

Acq: 26 Jul 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

MW-7

Tot Ion:105 Resp: 2653572

Ion Ratio Lower Upper

105 100

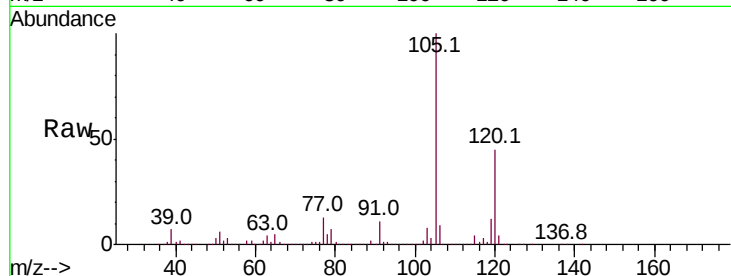
120 45.6 22.9 68.5

Manual Integrations

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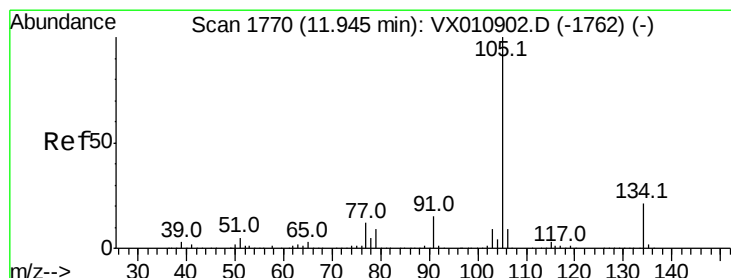
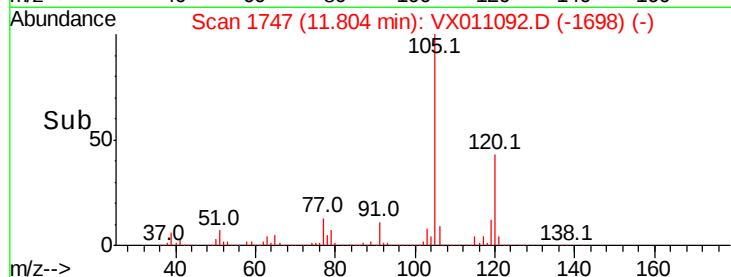
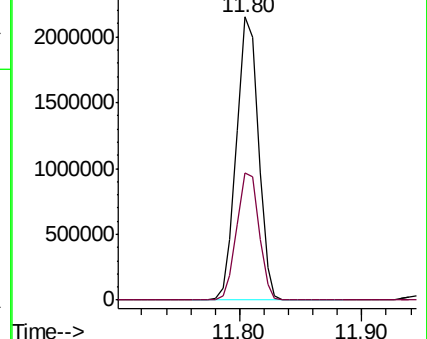
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 3.613 ug/l m

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX011092.D

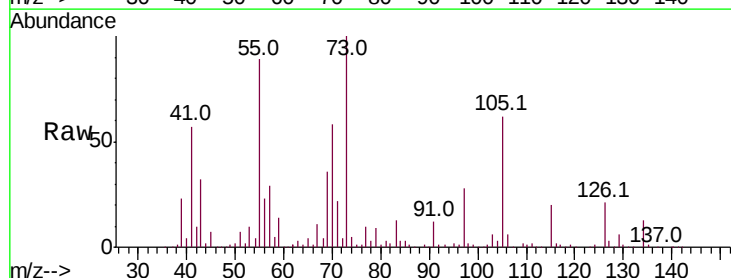
Acq: 26 Jul 2019 15:49

Tgt Ion:105 Resp: 40036

Ion Ratio Lower Upper

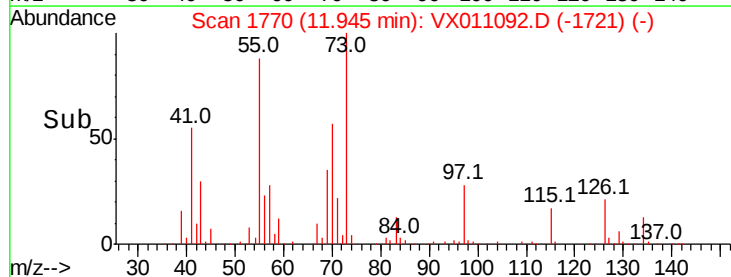
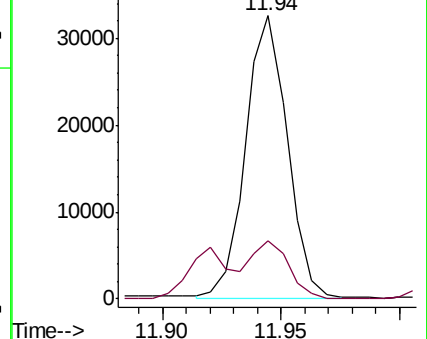
105 100

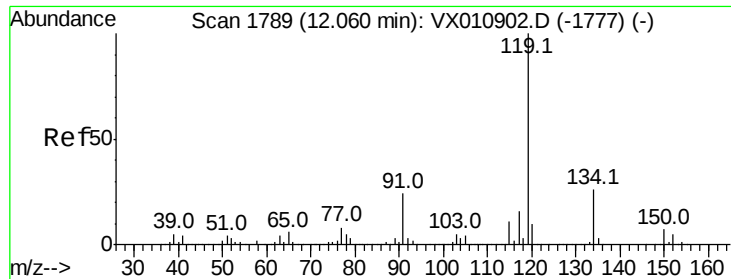
134 0.0 10.4 31.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





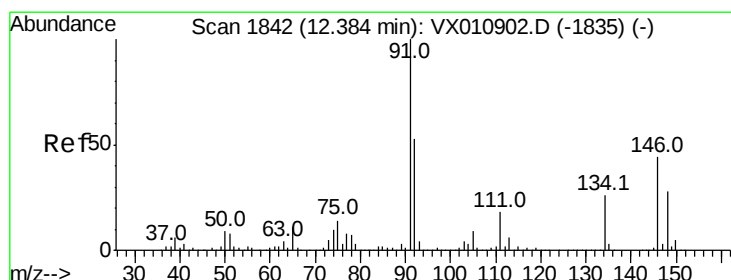
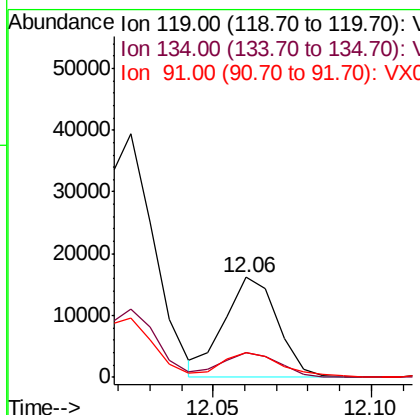
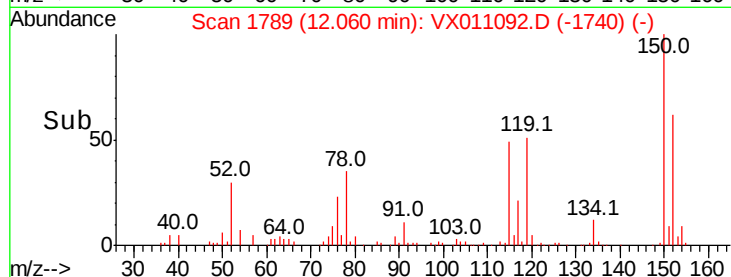
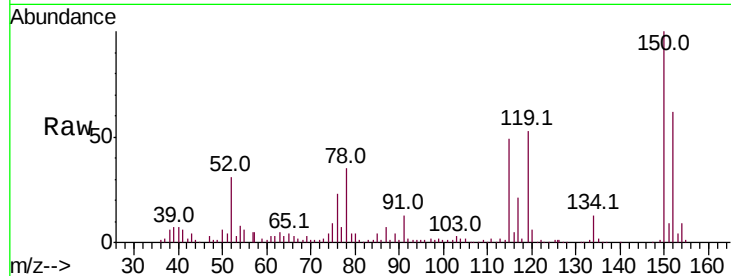
#86
p-Isopropyltoluene
Concen: 1.867 ug/l m
RT: 12.06 min Scan# 1789
Delta R.T. 0.00 min
Lab File: VX011092.D
Acq: 26 Jul 2019 15:49

Instrument :
MSVOA_X
ClientSampled :
MW-7

Tot Ion	Ratio	Resp	Lower	Upper
119	100	19127		
134	70.1	13.4	40.1#	
91	58.1	11.8	35.4#	

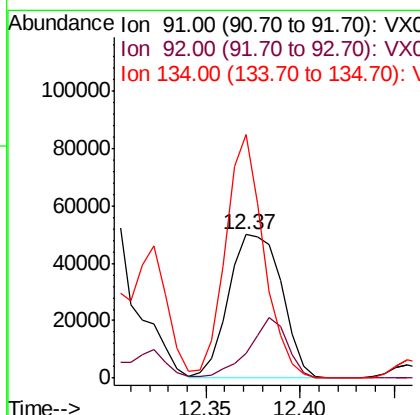
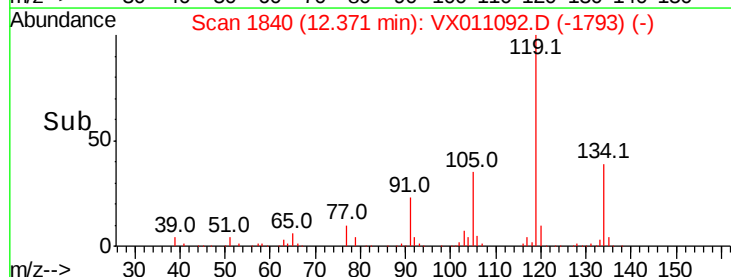
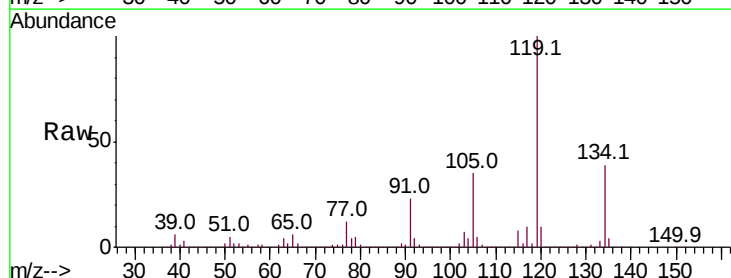
Manual Integrations
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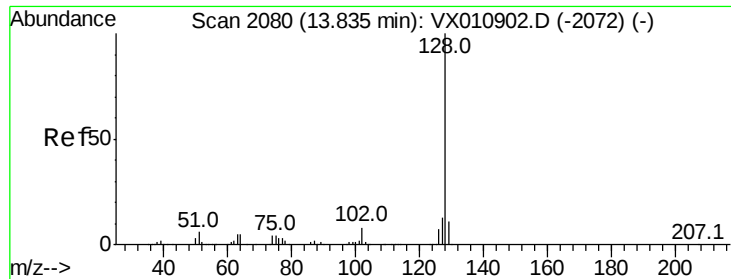
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#89
n-Butylbenzene
Concen: 11.080 ug/l
RT: 12.37 min Scan# 1840
Delta R.T. -0.01 min
Lab File: VX011092.D
Acq: 26 Jul 2019 15:49

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	97111		
92	31.2	26.2	78.5	
134	122.6	13.8	41.3#	





#95
Naphthalene
Concen: 65.687 ug/l
RT: 13.83 min Scan# 2079
Delta R.T. -0.01 min
Lab File: VX011092.D
Acq: 26 Jul 2019 15:49

Instrument :
MSVOA_X
ClientSampleId :
MW-7

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	13.2	10.4	15.6
129	11.1	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
7/29/2019 11:53:34 AM

