

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070319\
 Data File : VX010677.D
 Acq On : 04 Jul 2019 09:01
 Operator : JC/SP
 Sample : K3664-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0588

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:58:47 AM

Quant Time: Jul 05 03:26:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	254723	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	392341	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	357858	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	180147	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	125596	52.59	ug/l	0.00
Spiked Amount						
			Recovery	=	105.18%	
35) Dibromofluoromethane	5.50	113	118101	49.20	ug/l	0.00
Spiked Amount						
			Recovery	=	98.40%	
50) Toluene-d8	8.71	98	470959	51.28	ug/l	0.00
Spiked Amount						
			Recovery	=	102.56%	
62) 4-Bromofluorobenzene	11.13	95	166451	50.20	ug/l	0.00
Spiked Amount						
			Recovery	=	100.40%	

Target Compounds

					Qvalue
16) Acetone	2.44	43	3880m	3.242	ug/l
31) Cyclohexane	5.58	56	213679	61.941	ug/l
39) Methylcyclohexane	7.46	83	419107	102.266	ug/l
52) Toluene	8.79	92	7117	1.113	ug/l
67) Ethyl Benzene	10.25	91	2206465	179.896	ug/l
68) m/p-Xylenes	10.36	106	2042241	429.721	ug/l
69) o-Xylene	10.69	106	263899	56.466	ug/l
73) Isopropylbenzene	11.02	105	283708	23.232	ug/l
78) n-propylbenzene	11.36	91	541764	40.366	ug/l
80) 1,3,5-Trimethylbenzene	11.51	105	715934	71.116	ug/l
83) tert-Butylbenzene	11.77	119	8791m	0.870	ug/l
84) 1,2,4-Trimethylbenzene	11.80	105	2456278	242.852	ug/l
85) sec-Butylbenzene	11.94	105	143534	12.099	ug/l
86) p-Isopropyltoluene	12.06	119	138393	12.611	ug/l
89) n-Butylbenzene	12.38	91	168548	18.075	ug/l #
95) Naphthalene	13.83	128	580490	46.045	ug/l

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

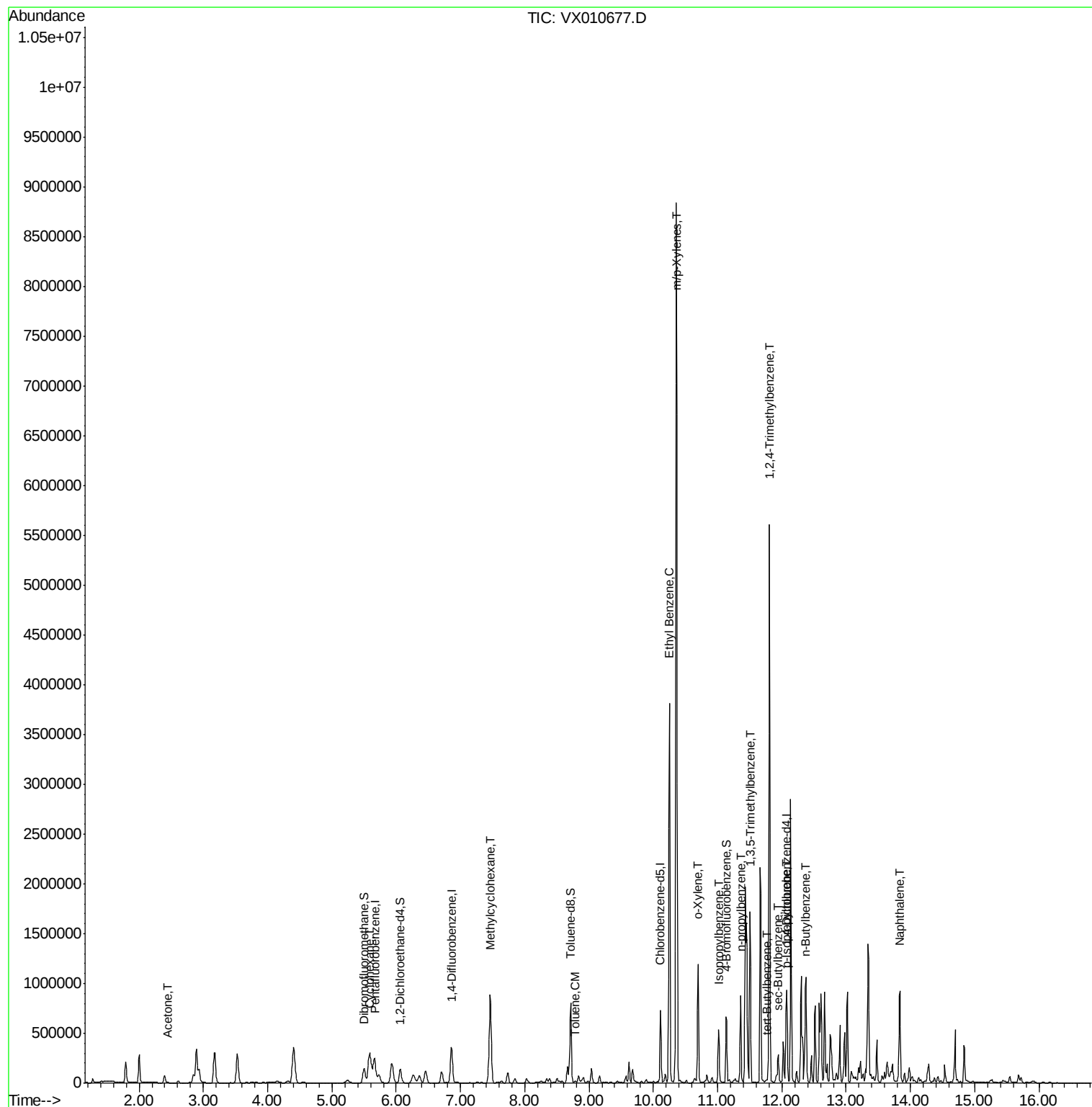
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070319\
Data File : VX010677.D
Acq On : 04 Jul 2019 09:01
Operator : JC/SP
Sample : K3664-04
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 48 Sample Multiplier: 1

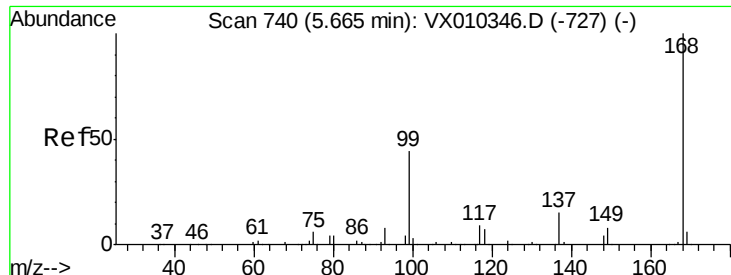
Instrument :
MSVOA_X
ClientSampleId :
FL-0588

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Quant Time: Jul 05 03:26:06 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

Instrument :

MSVOA_X

ClientSampled :

FL-0588

Tot Ion:168 Resp: 254723

Ion Ratio Lower Upper

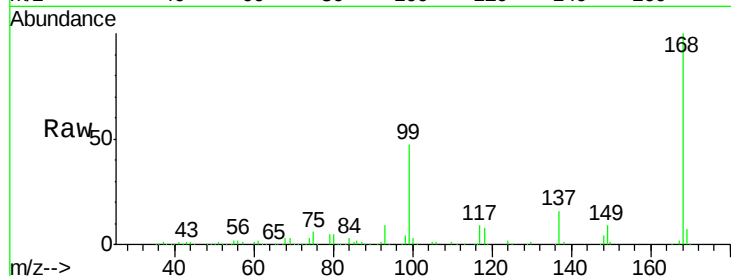
168 100

99 47.2 35.5 53.3

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

80000

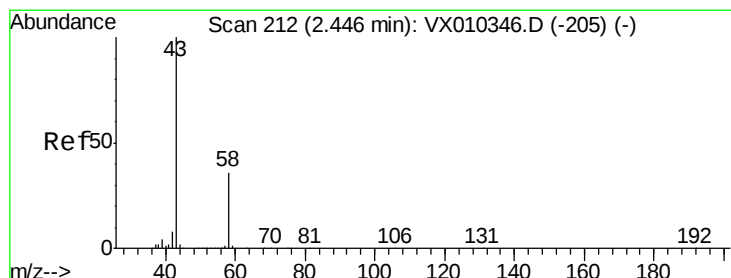
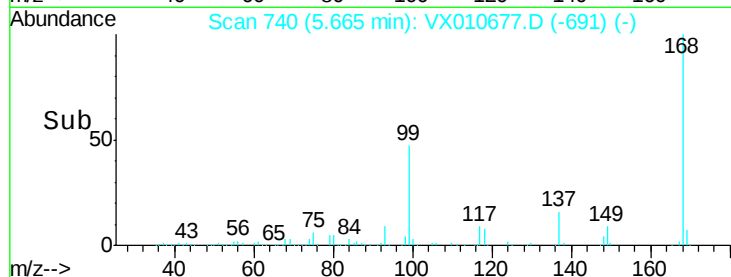
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 3.242 ug/l m

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010677.D

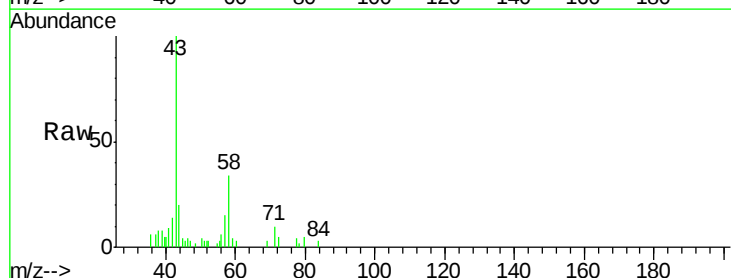
Acq: 04 Jul 2019 09:01

Tgt Ion: 43 Resp: 3880

Ion Ratio Lower Upper

43 100

58 33.8 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

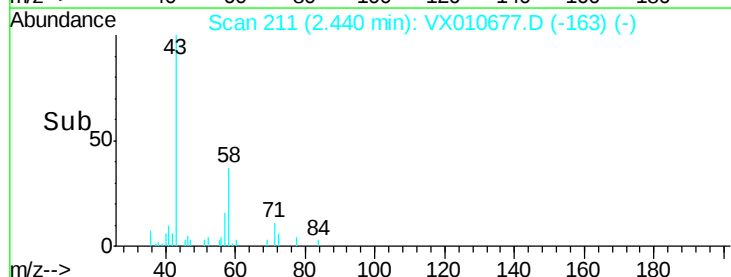
2.44

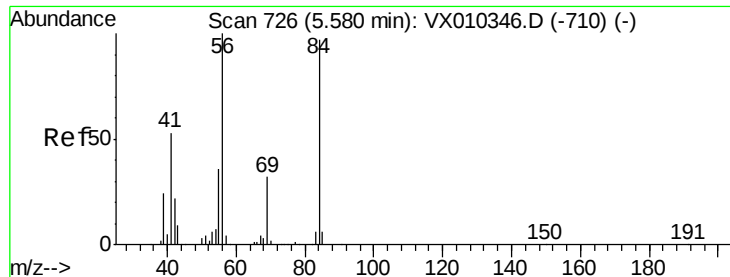
10000

5000

0

Time-->





#31

Cyclohexane

Concen: 61.941 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

Instrument :

MSVOA_X

ClientSampleId :

FL-0588

Tot Ion: 56 Resp: 213679

Ion Ratio Lower Upper

56 100

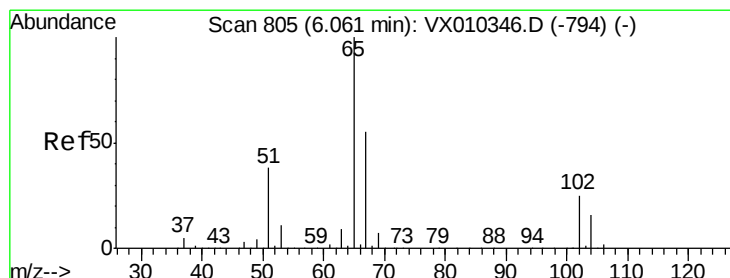
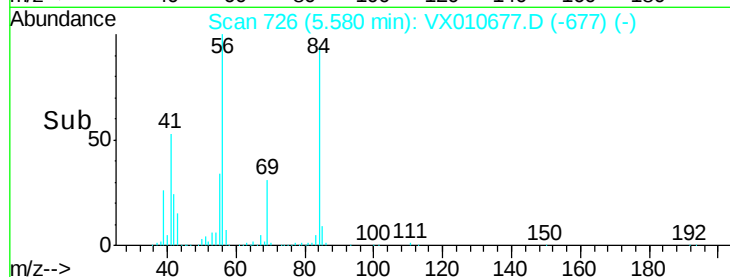
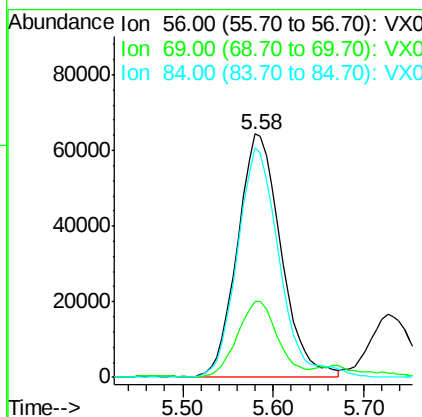
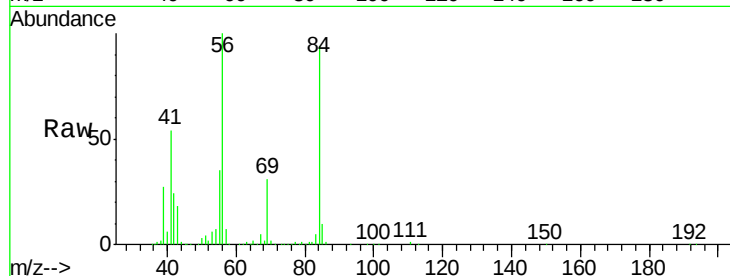
69 31.0 25.9 38.9

84 94.2 78.0 117.0

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#33

1,2-Dichloroethane-d4

Concen: 52.588 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX010677.D

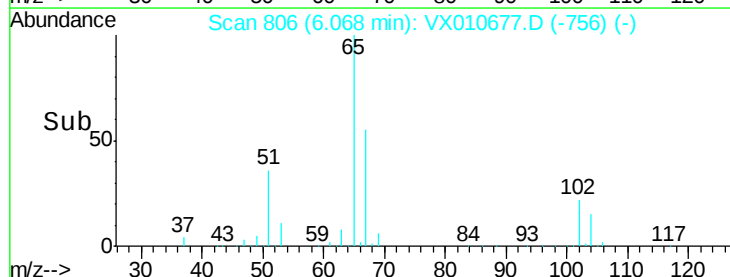
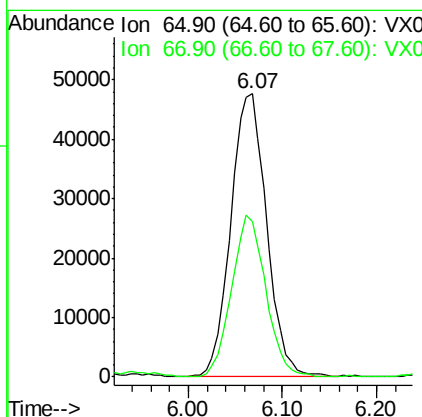
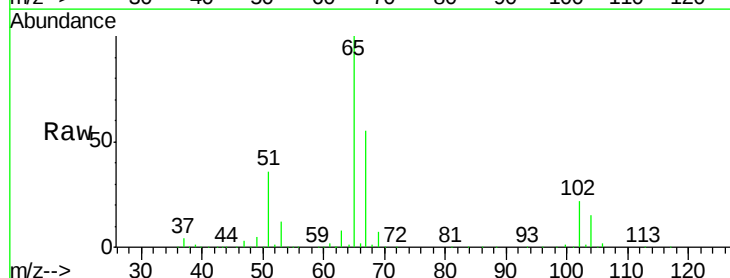
Acq: 04 Jul 2019 09:01

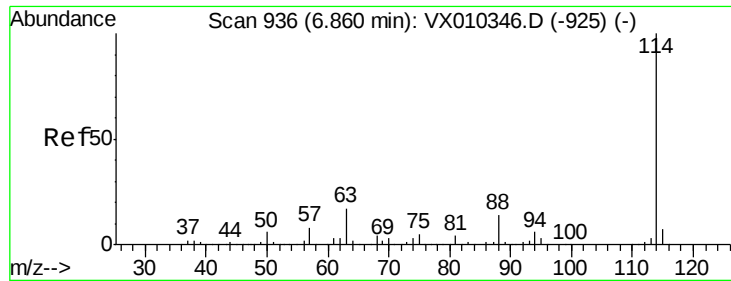
Tgt Ion: 65 Resp: 125596

Ion Ratio Lower Upper

65 100

67 54.5 0.0 110.2





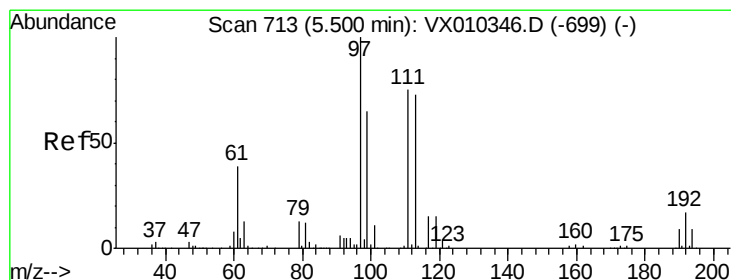
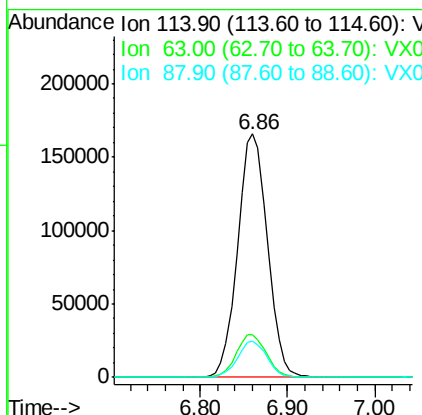
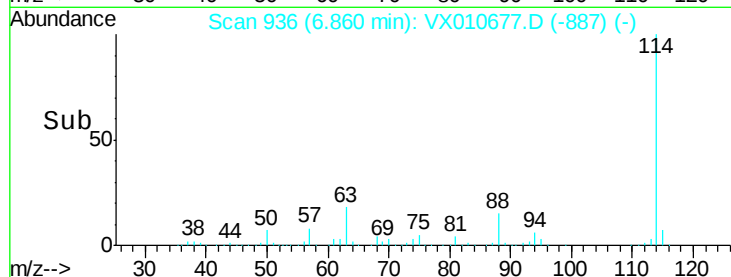
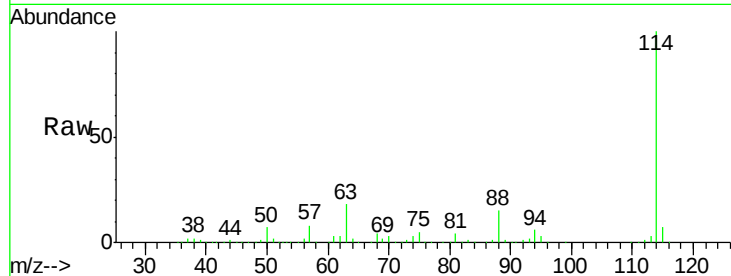
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Instrument :
MSVOA_X
ClientSampleId :
FL-0588

Tot Ion	Ratio	Resp	Lower	Upper
114	100	392341		
63	17.7	0.0	33.8	
88	14.7	0.0	27.6	

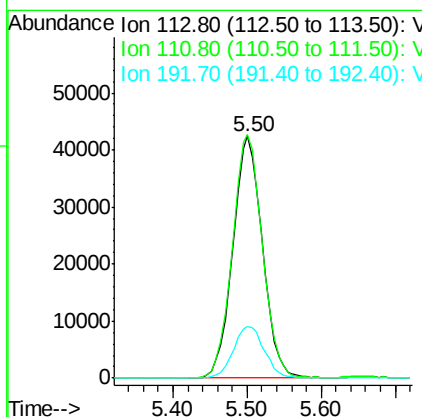
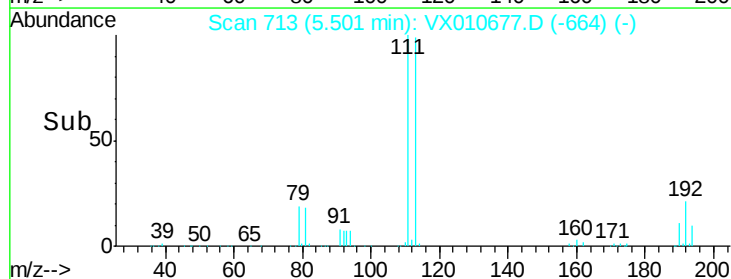
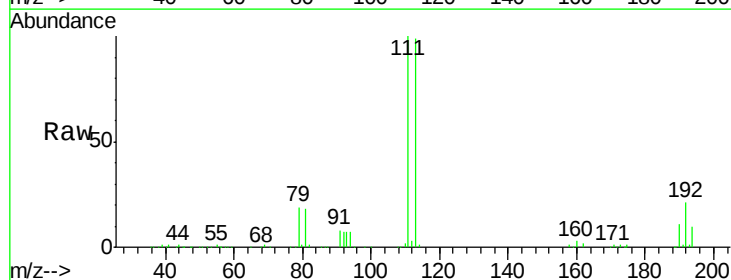
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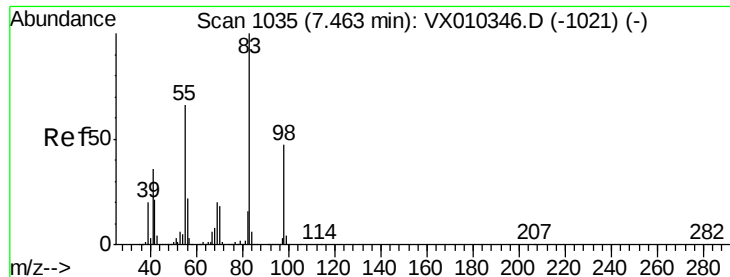
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#35
Dibromofluoromethane
Concen: 49.199 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	118101		
111	102.3	81.2	121.8	
192	22.3	18.6	27.8	





#39

Methylcyclohexane

Concen: 102.266 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

Instrument :

MSVOA_X

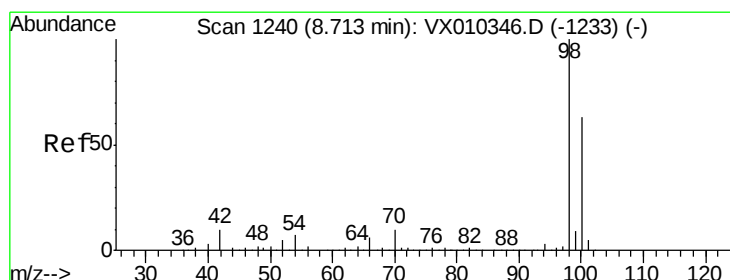
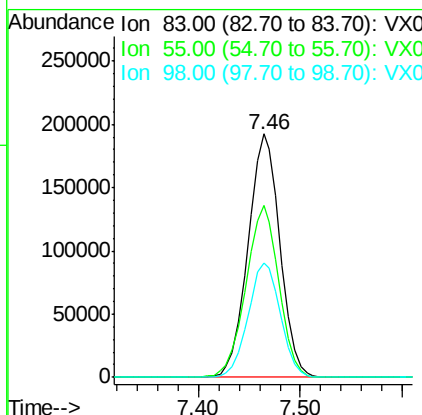
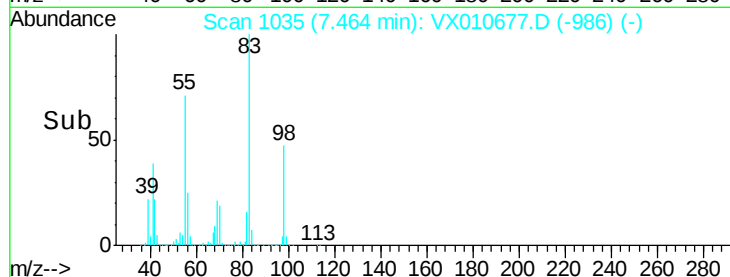
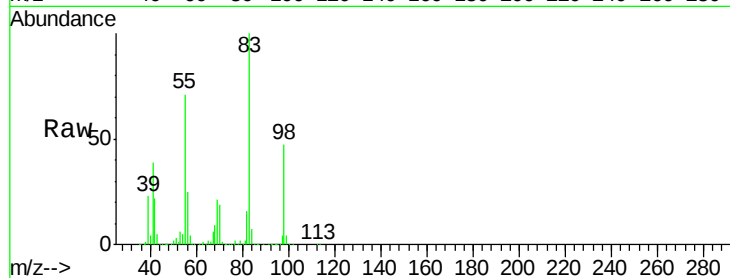
ClientSampled :

FL-0588

Tot Ion:	83	Resp:	419107
Ion	Ratio	Lower	Upper
83	100		
55	70.6	53.0	79.6
98	47.0	37.8	56.8

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#50

Toluene-d8

Concen: 51.282 ug/l

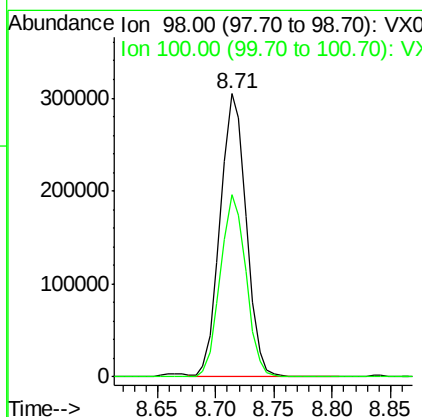
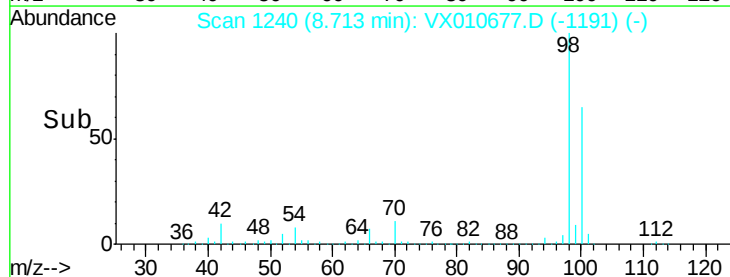
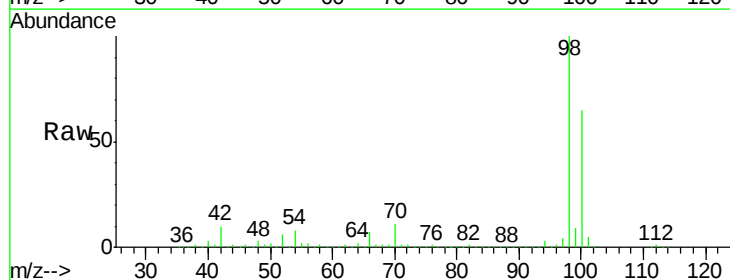
RT: 8.71 min Scan# 1240

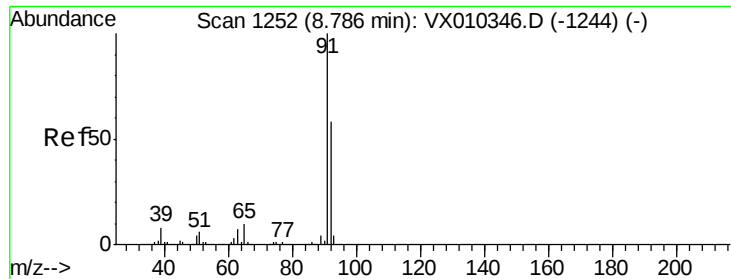
Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

Tgt Ion:	98	Resp:	470959
Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.6	77.4





#52

Toluene

Concen: 1.113 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

Instrument :

MSVOA_X

ClientSampleId :

FL-0588

Tot Ion: 92 Resp: 7117

Ion Ratio Lower Upper

92 100

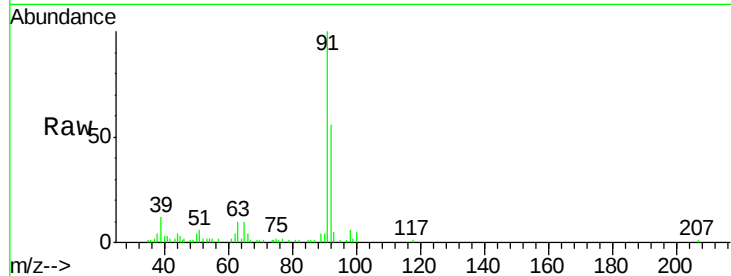
91 174.9 139.8 209.6

Manual Integrations

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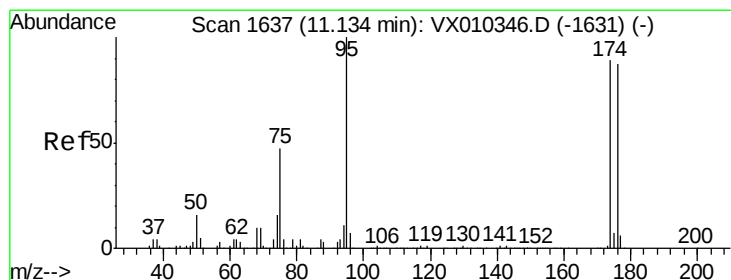
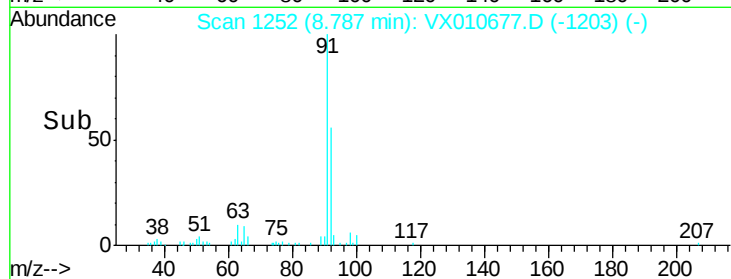
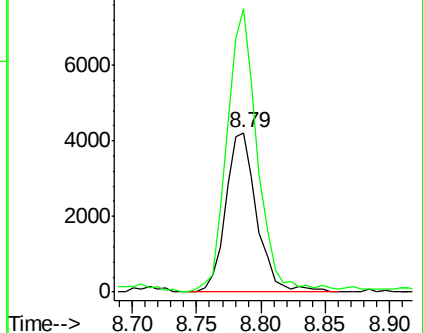
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Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 50.202 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

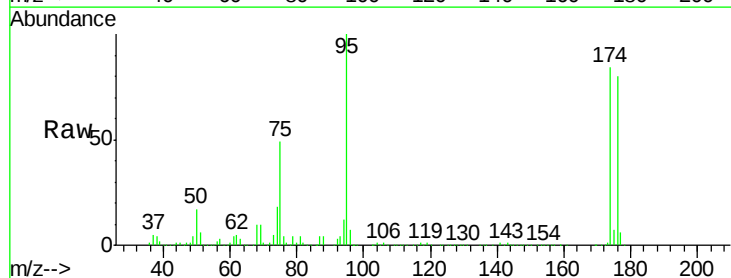
Tgt Ion: 95 Resp: 166451

Ion Ratio Lower Upper

95 100

174 92.1 0.0 187.6

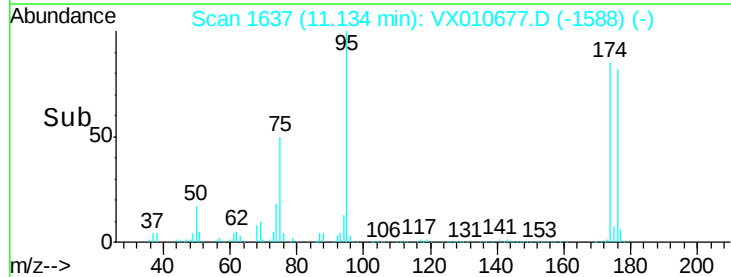
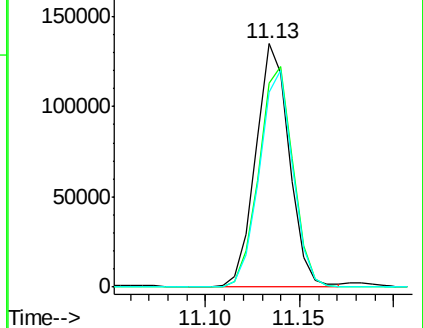
176 88.8 0.0 184.0

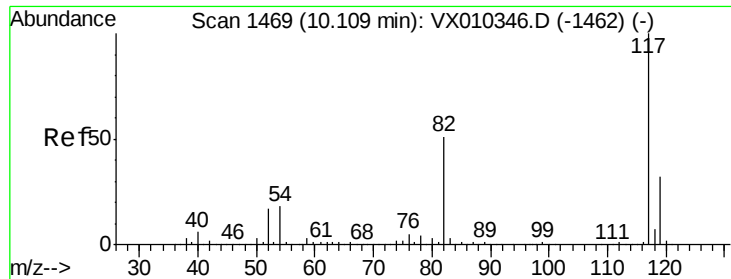


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





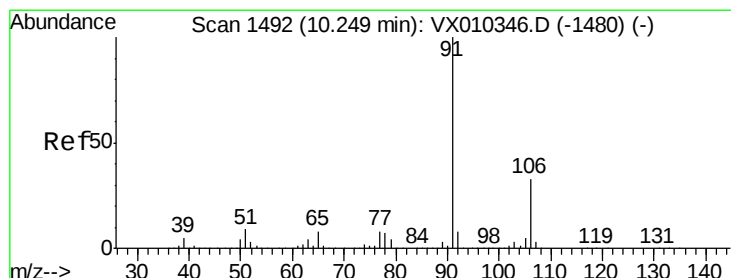
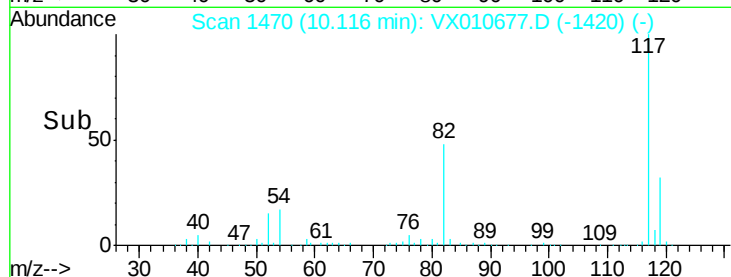
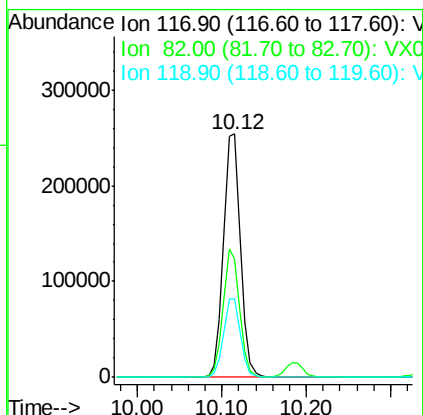
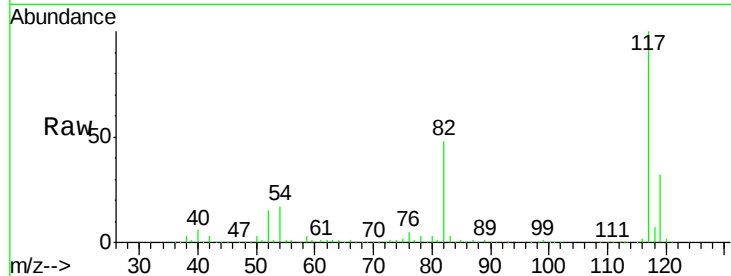
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Instrument :
MSVOA_X
ClientSampled :
FL-0588

Tot Ion	Ratio	Lower	Upper
117	100		
82	48.4	41.2	61.8
119	32.1	25.5	38.3

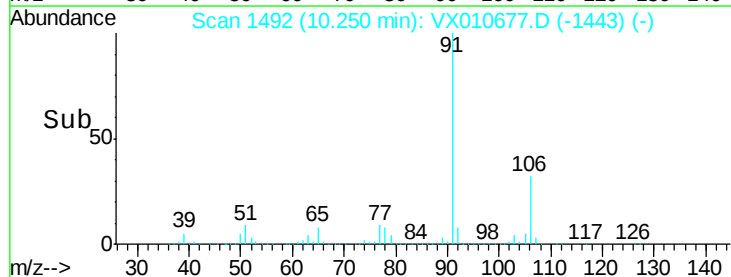
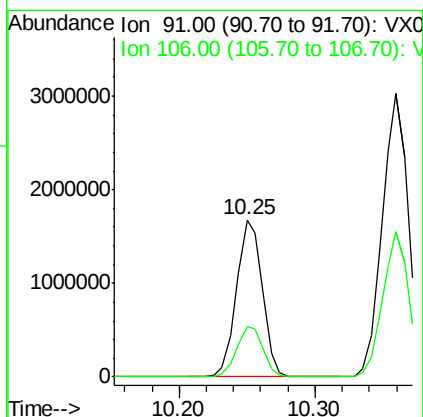
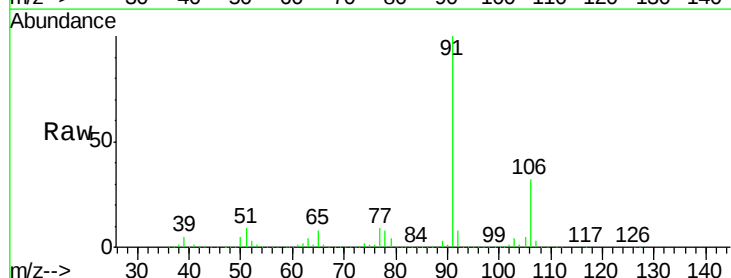
Manual Integrations
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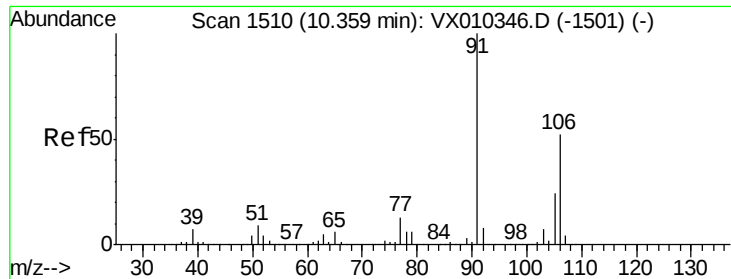
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7/8/2019 10:58:47 AM



#67
Ethyl Benzene
Concen: 179.896 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.0	26.2	39.2





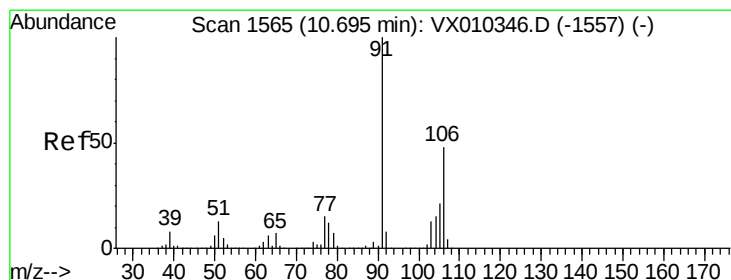
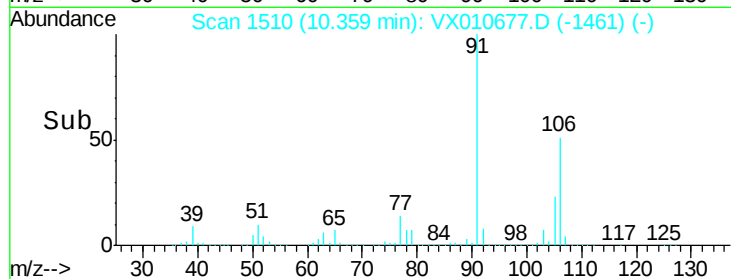
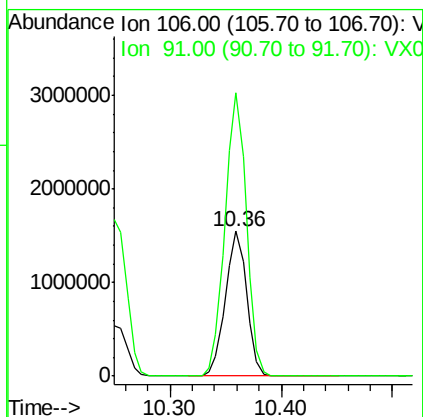
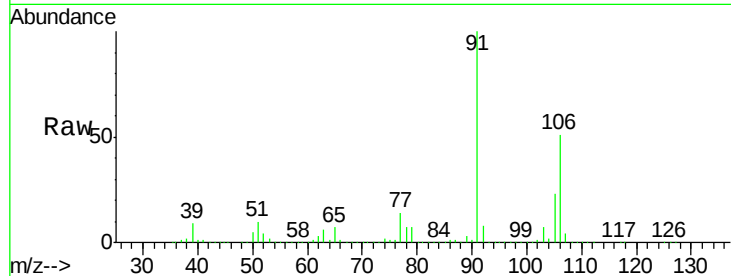
#68
m/p-Xvlenes
Concen: 429.721 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Instrument :
MSVOA_X
ClientSampleId :
FL-0588

Tot Ion:106 Resp: 2042241
Ion Ratio Lower Upper
106 100
91 197.5 155.3 232.9

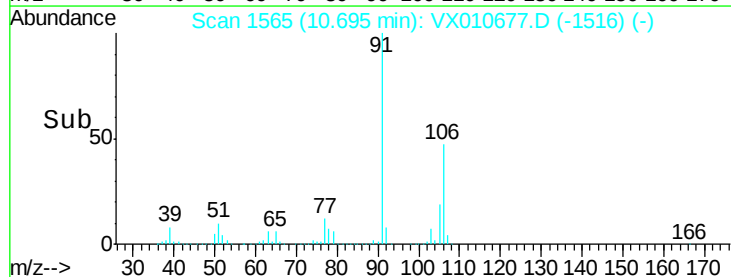
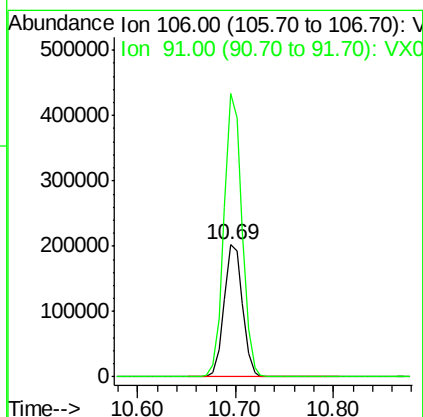
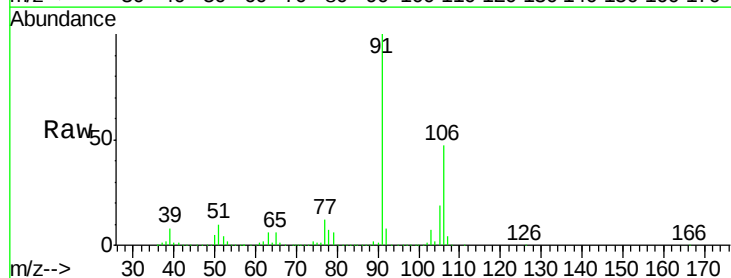
Manual Integrations
APPROVED

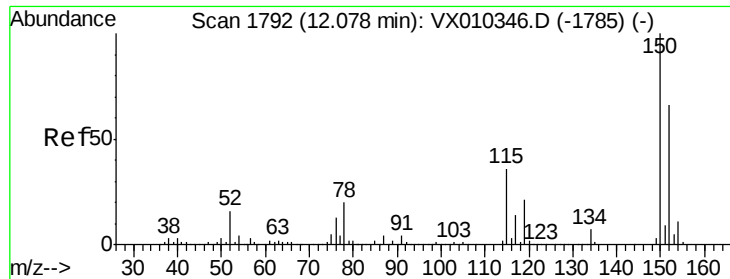
MMDadoda
7/8/2019 10:58:47 AM



#69
o-Xylene
Concen: 56.466 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Tgt Ion:106 Resp: 263899
Ion Ratio Lower Upper
106 100
91 209.6 102.7 308.1





#72

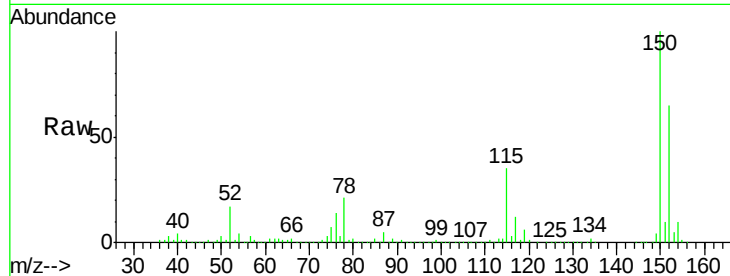
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Instrument :
MSVOA_X
ClientSampleId :
FL-0588

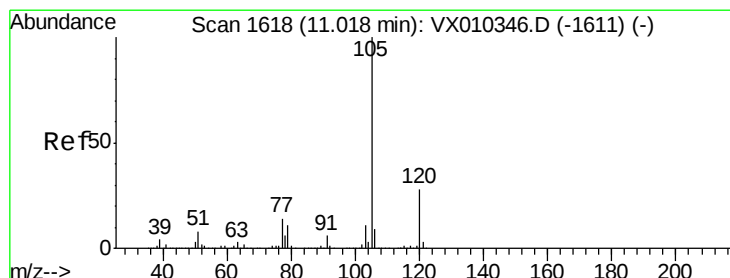
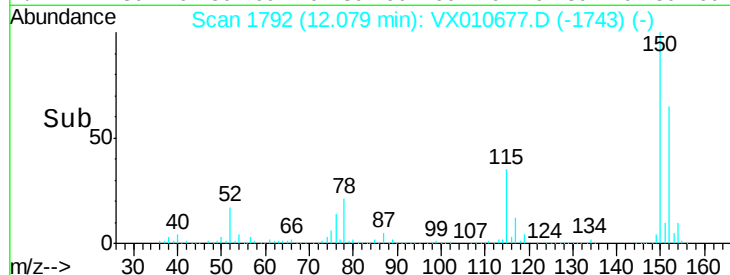
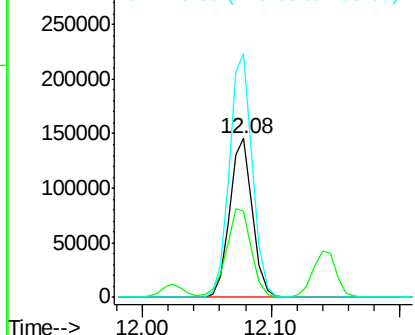
Tot Ion	Ratio	Lower	Upper
152	100		
115	61.5	38.6	115.7
150	155.3	0.0	347.4

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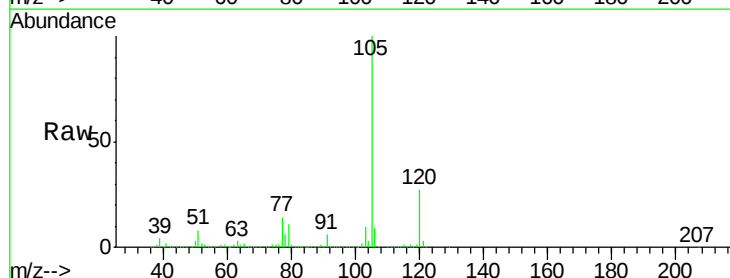
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



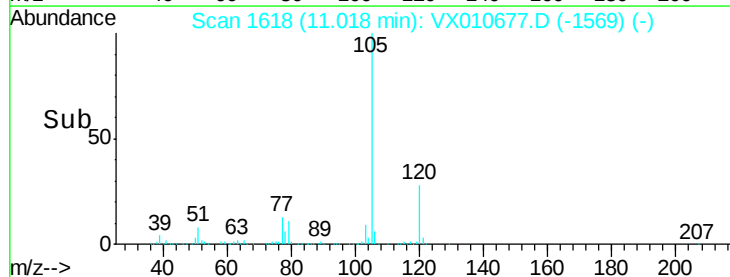
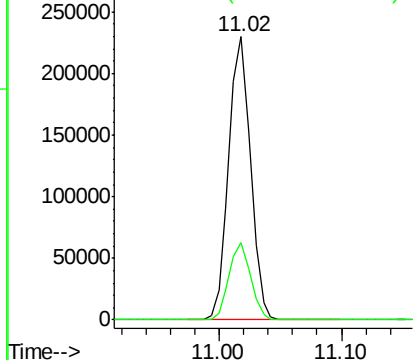
#73

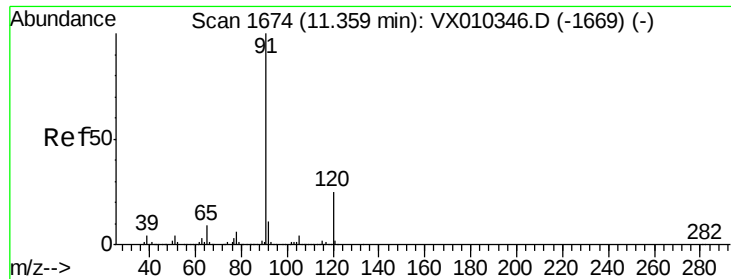
Isopropylbenzene
Concen: 23.232 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	14.1	42.4



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





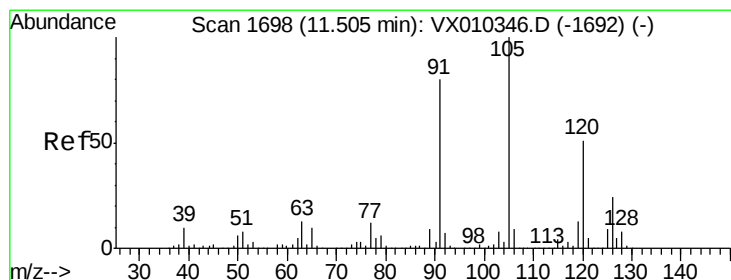
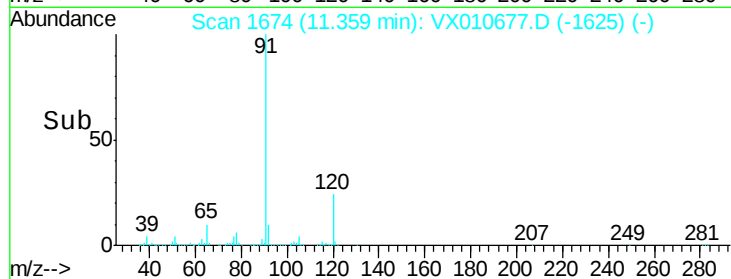
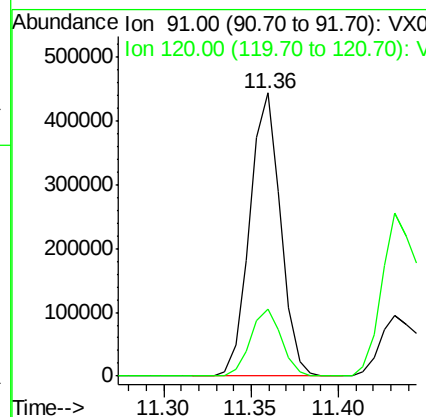
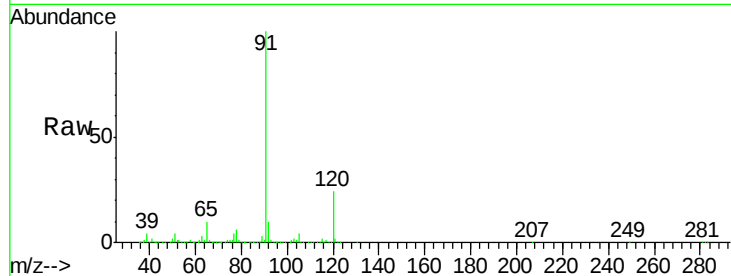
#78
n-propylbenzene
Concen: 40.366 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Instrument :
MSVOA_X
ClientSampled :
FL-0588

Tot Ion: 91 Resp: 541764
Ion Ratio Lower Upper
91 100
120 23.8 12.4 37.4

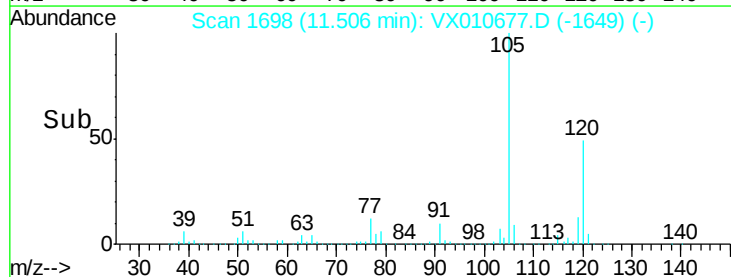
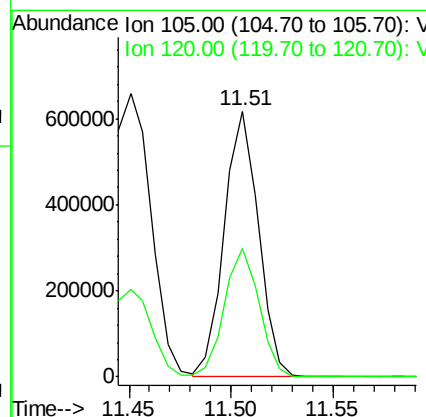
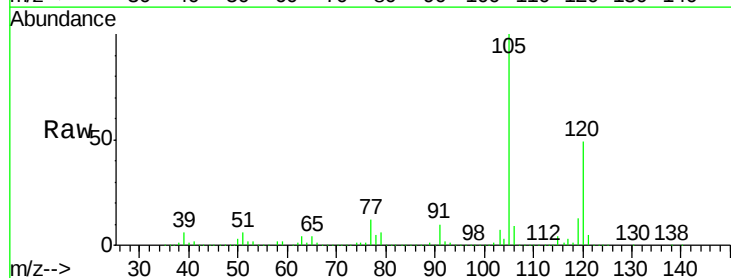
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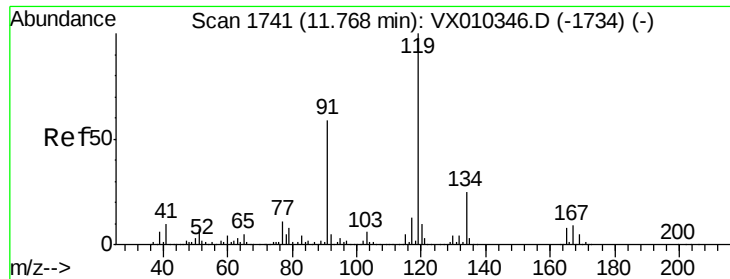
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#80
1,3,5-Trimethylbenzene
Concen: 71.116 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VX010677.D
Acq: 04 Jul 2019 09:01

Tgt Ion: 105 Resp: 715934
Ion Ratio Lower Upper
105 100
120 49.1 25.2 75.6





#83

tert-Butylbenzene

Concen: 0.870 ug/l m

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

Instrument :

MSVOA_X

ClientSampleId :

FL-0588

Tot Ion:119 Resp: 8791

Ion Ratio Lower Upper

119 100

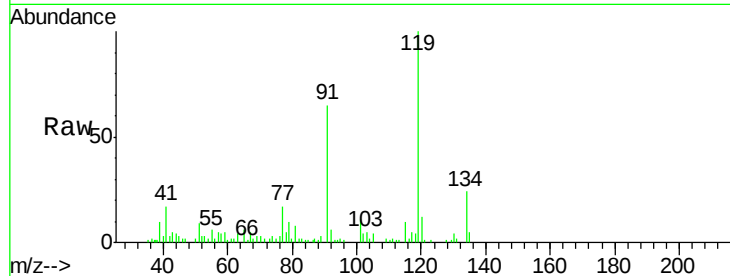
91 3066.1 27.6 82.7

134 0.0 11.8 35.4#

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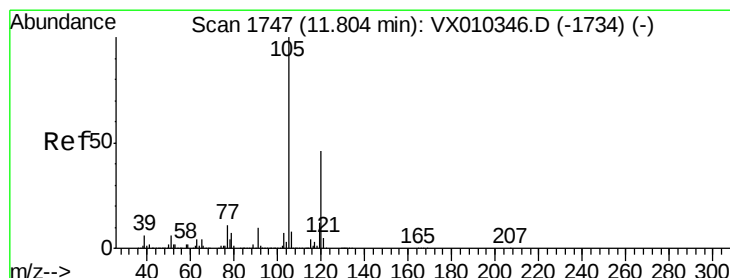
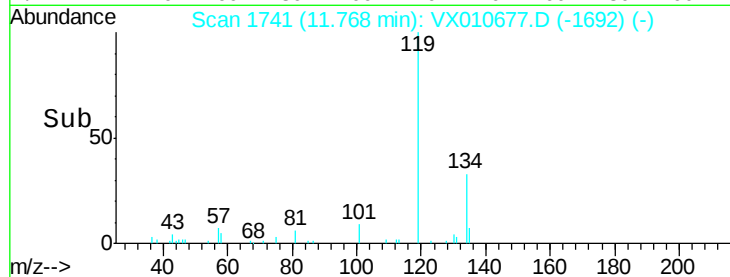
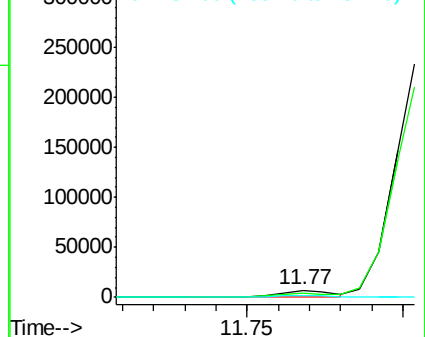
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 242.852 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX010677.D

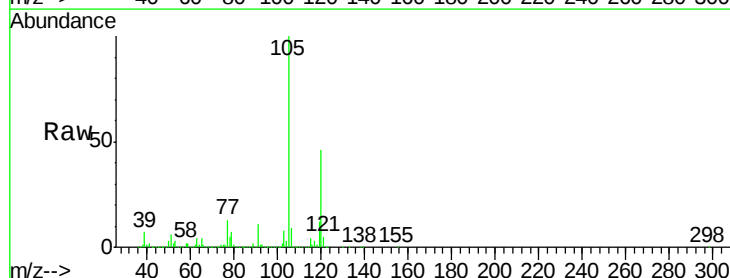
Acq: 04 Jul 2019 09:01

Tgt Ion:105 Resp: 2456278

Ion Ratio Lower Upper

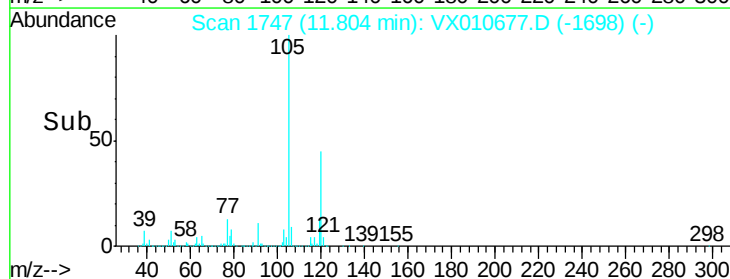
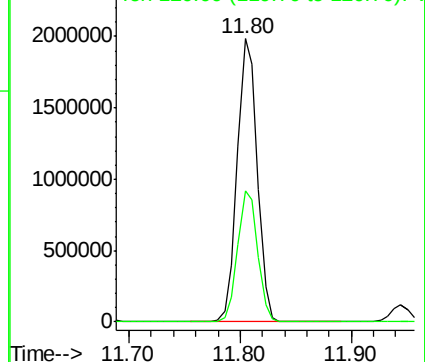
105 100

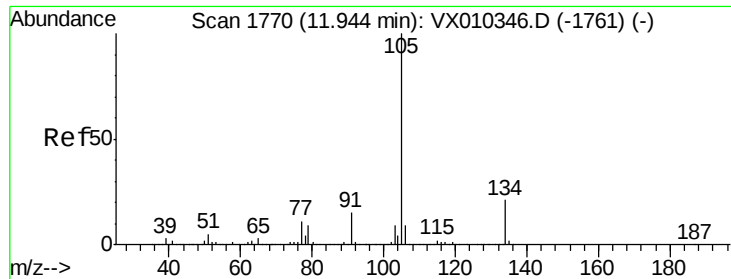
120 46.5 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 12.099 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

Instrument :

MSVOA_X

ClientSampled :

FL-0588

Tot Ion:105 Resp: 143534

Ion Ratio Lower Upper

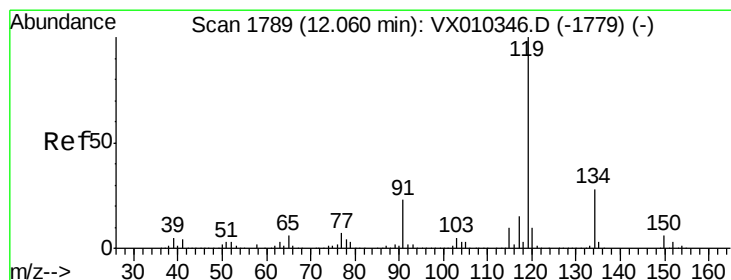
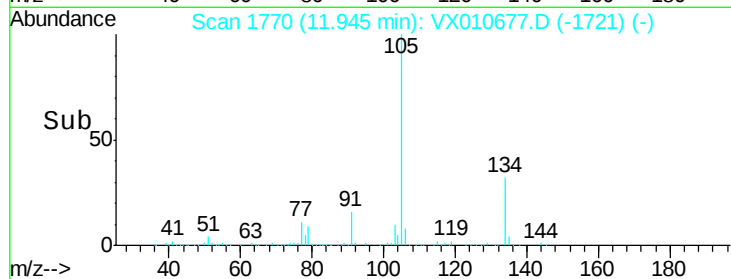
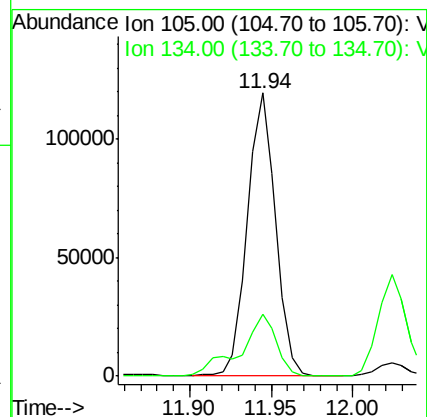
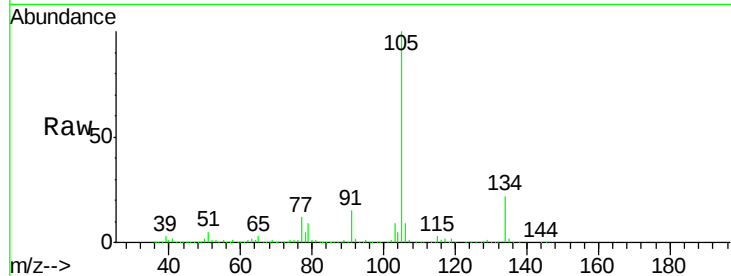
105 100

134 28.5 10.7 31.9

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#86

p-Isopropyltoluene

Concen: 12.611 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

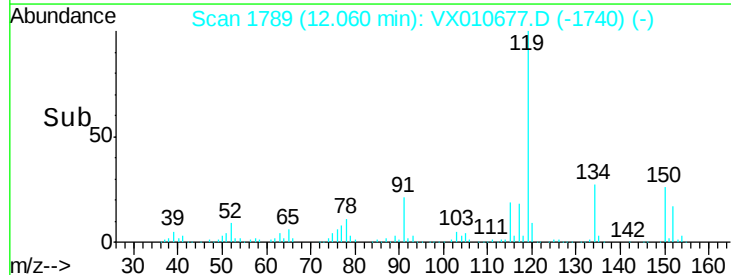
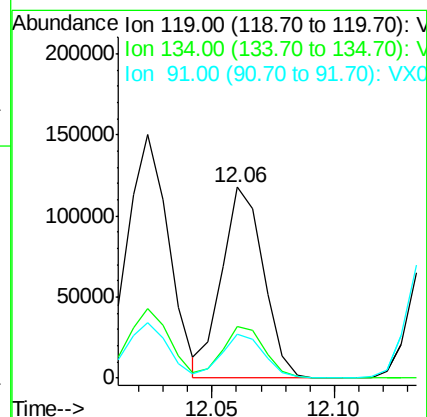
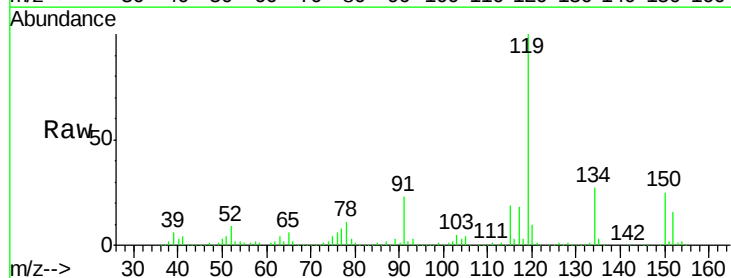
Tgt Ion:119 Resp: 138393

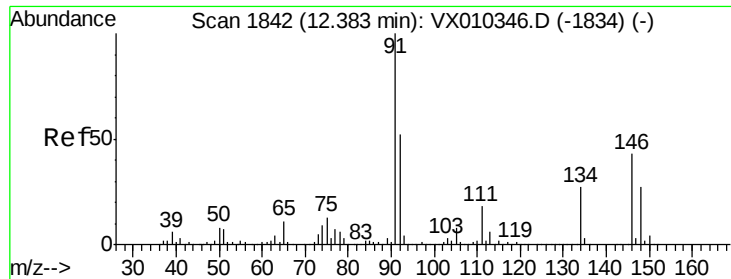
Ion Ratio Lower Upper

119 100

134 27.9 13.7 41.1

91 23.5 11.3 33.8





#89

n-Butylbenzene

Concen: 18.075 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

Instrument :

MSVOA_X

ClientSampled :

FL-0588

Tot Ion: 91 Resp: 168548

Ion Ratio Lower Upper

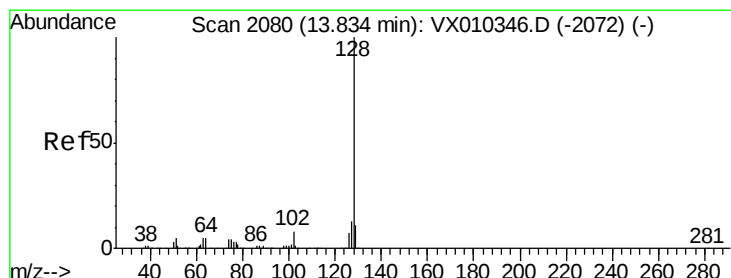
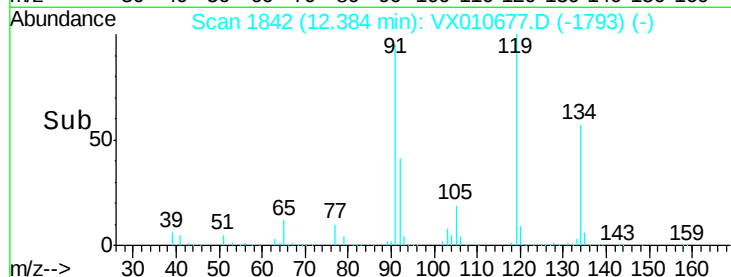
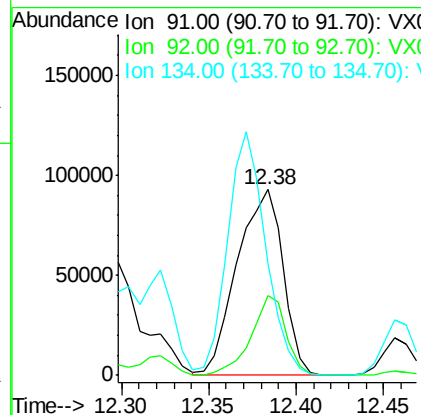
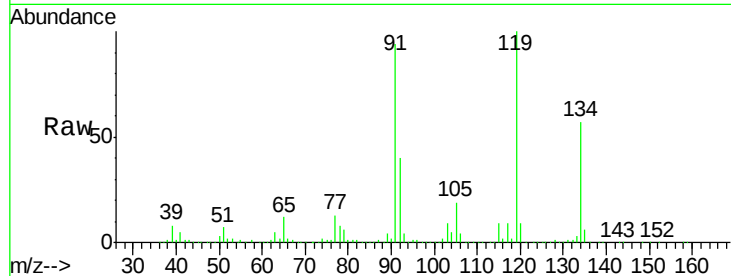
91 100

92 32.8 26.2 78.5

134 109.2 14.1 42.4#

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#95

Naphthalene

Concen: 46.045 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX010677.D

Acq: 04 Jul 2019 09:01

Tgt Ion: 128 Resp: 580490

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

129 11.5 8.9 13.3

