

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071819\
 Data File : VX010965.D
 Acq On : 18 Jul 2019 17:42
 Operator : JC/SP
 Sample : K3884-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0607

Manual Integrations
 APPROVED

MMDadoda
 7/22/2019 12:23:10 PM

Quant Time: Jul 19 04:11:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	233759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	366987	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	342596	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189648	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	127144	51.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.26%	
35) Dibromofluoromethane	5.50	113	111518	47.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.76%	
50) Toluene-d8	8.71	98	441949	50.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	11.13	95	174728	54.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.82%	
Target Compounds						
					Qvalue	
31) Cyclohexane	5.59	56	1069547	316.757	ug/l	99
39) Methylcyclohexane	7.46	83	927902	237.365	ug/l	99
52) Toluene	8.78	92	210686	34.732	ug/l	100
67) Ethyl Benzene	10.25	91	1824936	152.367	ug/l	100
68) m/p-Xylenes	10.36	106	2903449	631.960	ug/l	99
69) o-Xylene	10.69	106	689959	153.876	ug/l	99
73) Isopropylbenzene	11.02	105	631576	49.286	ug/l	100
78) n-propylbenzene	11.36	91	1178911	83.262	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	2675348	249.851	ug/l	99
83) tert-Butylbenzene	11.77	119	52036	4.947	ug/l	89
84) 1,2,4-Trimethylbenzene	11.81	105	6272814	581.226	ug/l	98
85) sec-Butylbenzene	11.94	105	89686m	7.277	ug/l	
86) p-Isopropyltoluene	12.06	119	99788	8.758	ug/l	99
89) n-Butylbenzene	12.38	91	225262	23.110	ug/l #	29
95) Naphthalene	13.83	128	1110677	91.291	ug/l	100

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

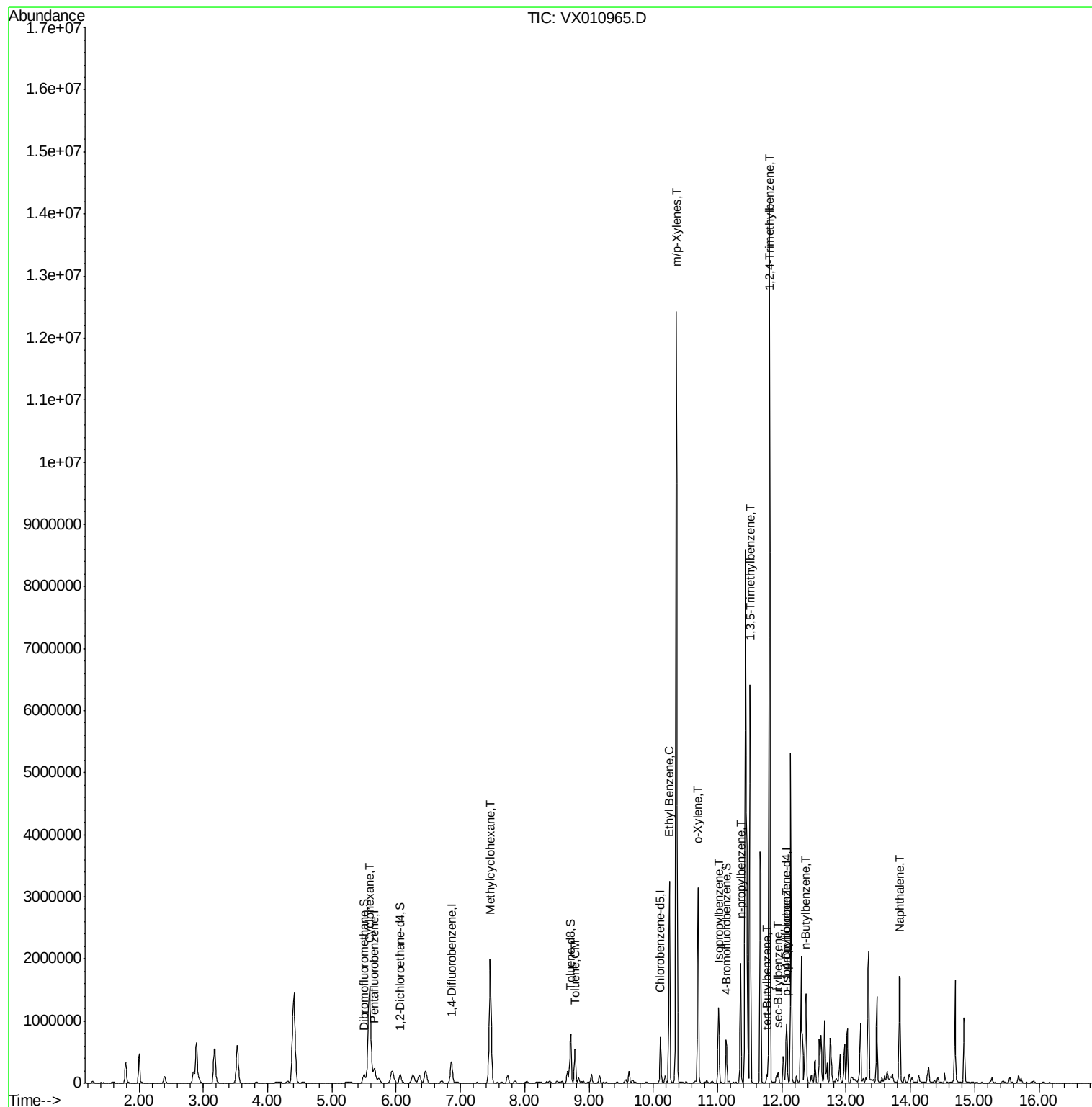
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071819\
Data File : VX010965.D
Acq On : 18 Jul 2019 17:42
Operator : JC/SP
Sample : K3884-05
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 20 Sample Multiplier: 1

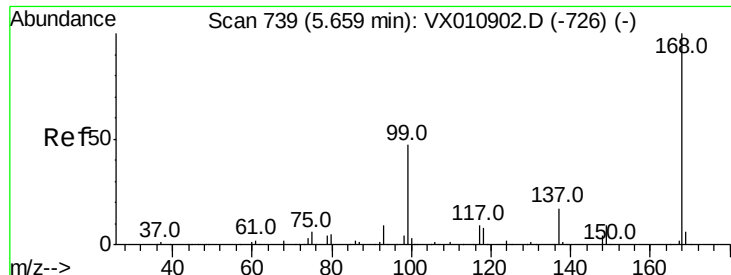
Instrument :
MSVOA_X
ClientSampleId :
FL-0607

Manual Integrations
APPROVED

MMDadoda
7/22/2019 12:23:10 PM

Quant Time: Jul 19 04:11:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 17 06:57:45 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: VX010965.D

Acq: 18 Jul 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

FL-0607

Tot Ion:168 Resp: 233759

Ion Ratio Lower Upper

168 100

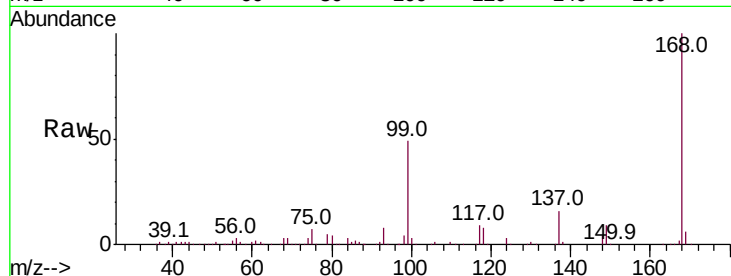
99 48.7 37.6 56.4

Manual Integrations

APPROVED

MMDadoda

7/22/2019 12:23:10 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

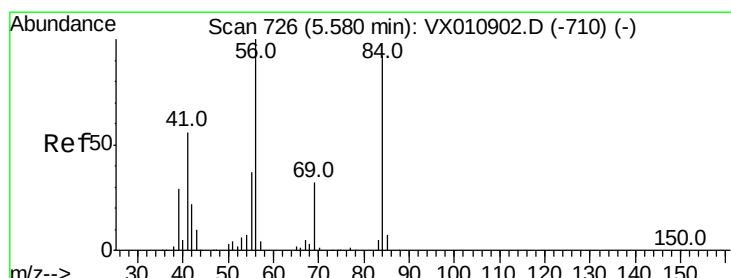
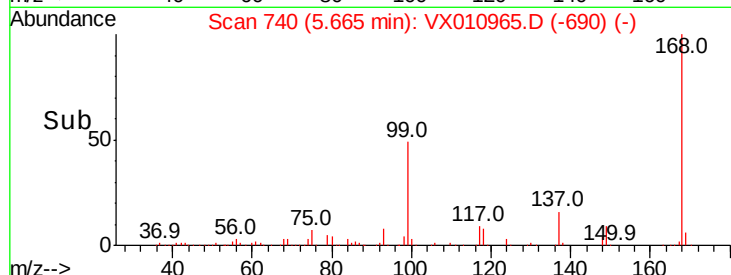
40000

20000

0

5.60 5.70 5.80

Time-->



#31

Cyclohexane

Concen: 316.757 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

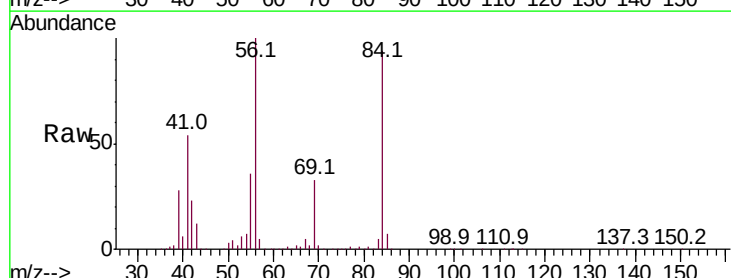
Tgt Ion: 56 Resp: 1069547

Ion Ratio Lower Upper

56 100

69 32.6 25.8 38.8

84 93.9 73.8 110.6



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

5.59

400000

300000

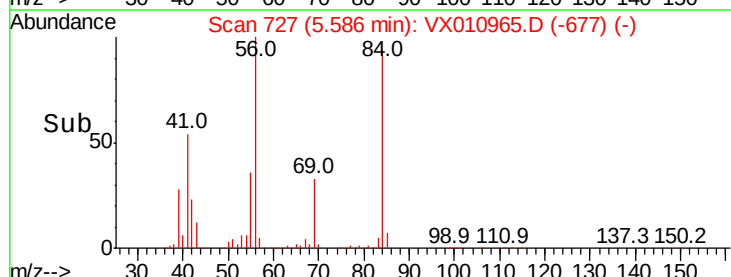
200000

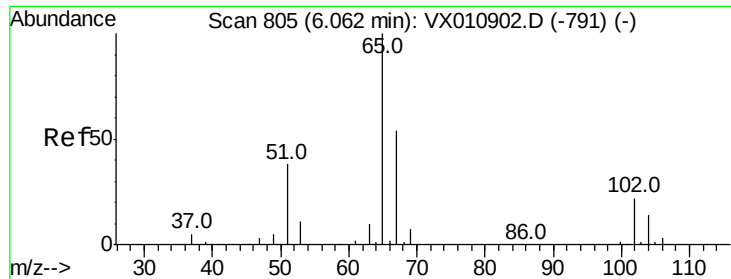
100000

0

5.40 5.50 5.60 5.70

Time-->





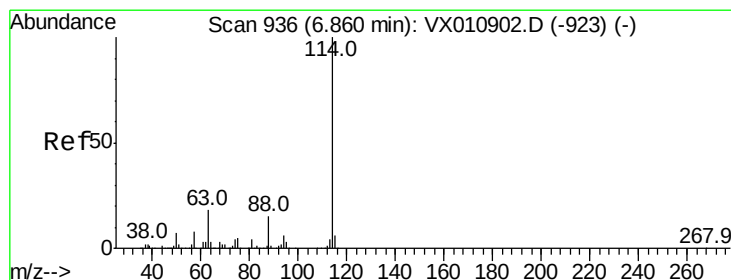
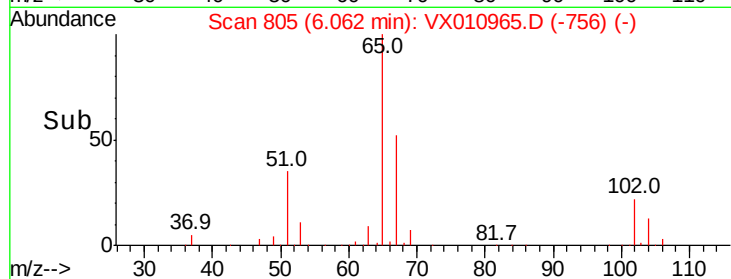
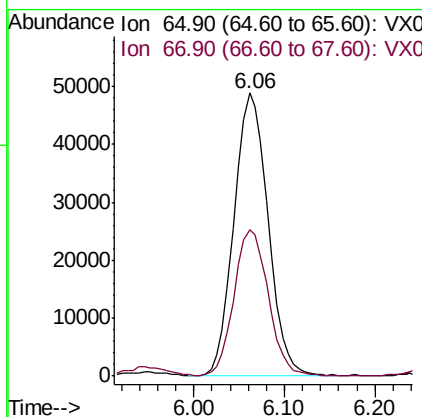
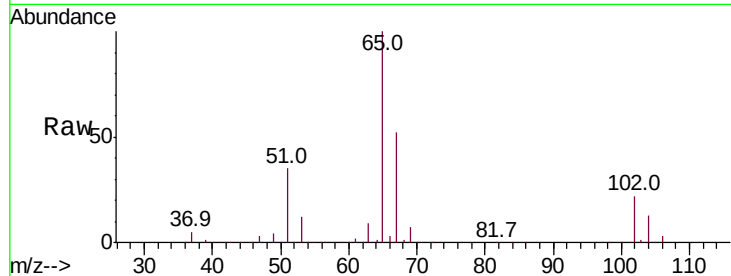
#33
 1,2-Dichloroethane-d4
 Concen: 51.127 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX010965.D
 Acq: 18 Jul 2019 17:42

Instrument :
 MSVOA_X
 ClientSampled :
 FL-0607

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	107.8

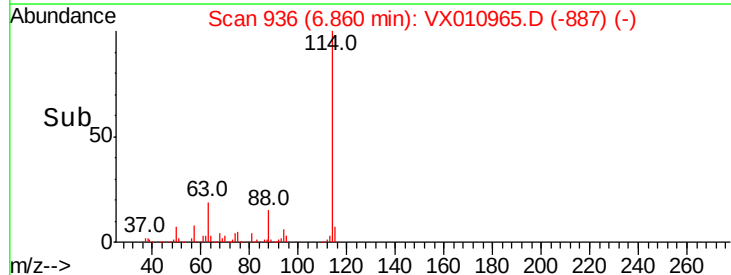
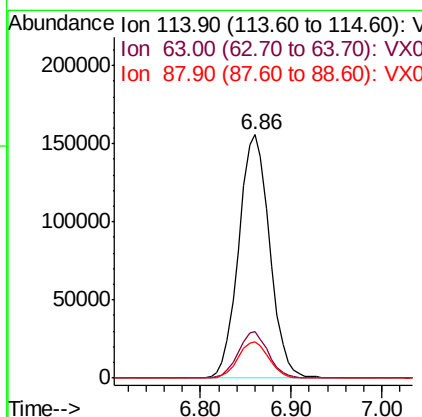
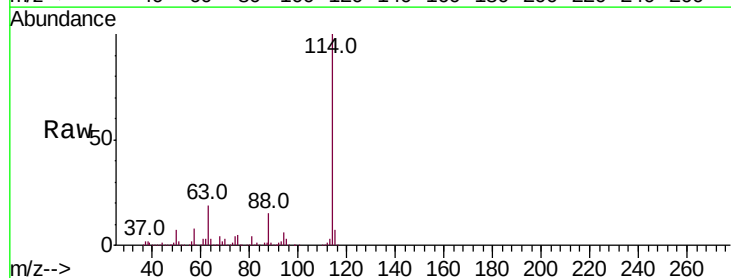
Manual Integrations
 APPROVED

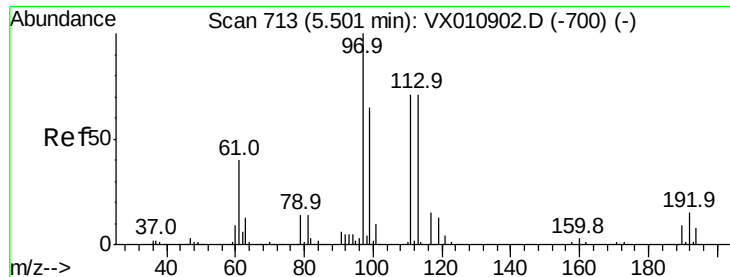
MMDadoda
 7/22/2019 12:23:10 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010965.D
 Acq: 18 Jul 2019 17:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	35.6
88	15.0	0.0	29.8





#35

Dibromofluoromethane

Concen: 47.875 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

Instrument :

MSVOA_X

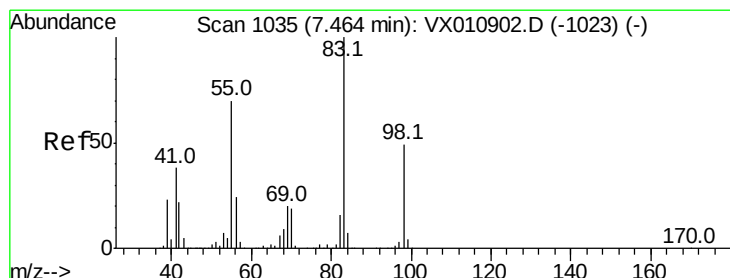
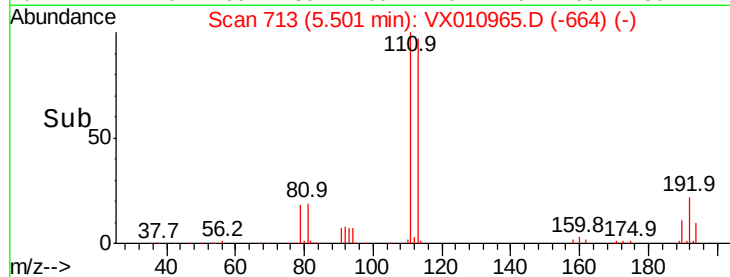
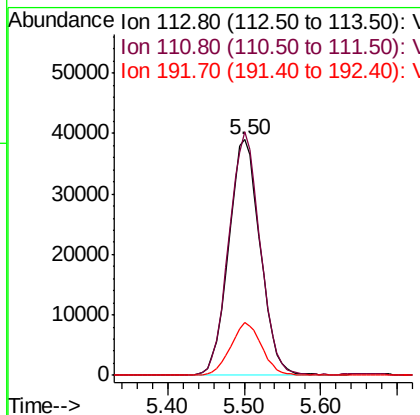
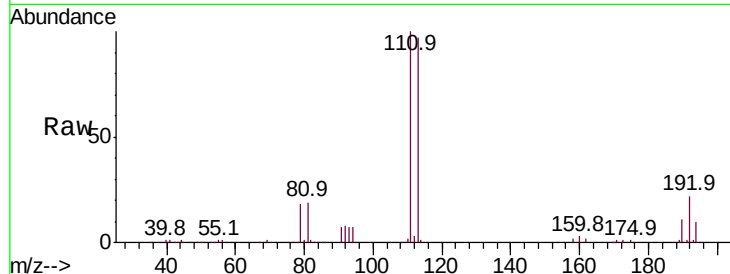
ClientSampled :

FL-0607

Tot Ion:	113	Resp:	111518
Ion Ratio	Lower	Upper	
113	100		
111	102.1	82.3	123.5
192	22.0	17.4	26.2

Manual Integrations
APPROVED

MMDadoda
7/22/2019 12:23:10 PM



#39

Methylcyclohexane

Concen: 237.365 ug/l

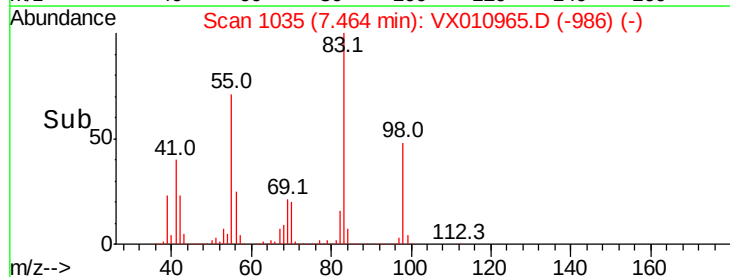
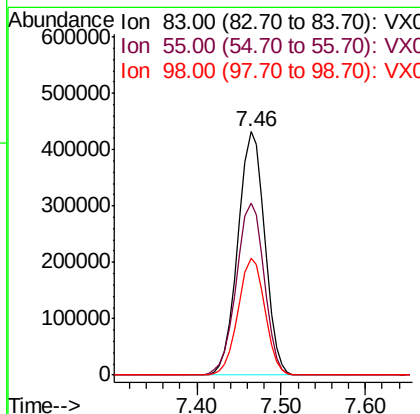
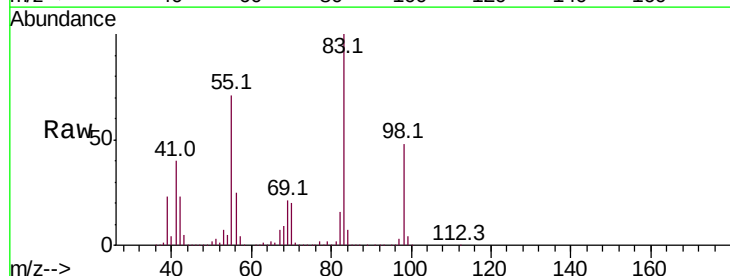
RT: 7.46 min Scan# 1035

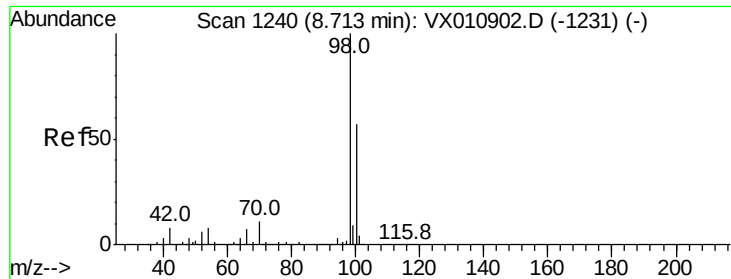
Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

Tgt Ion:	83	Resp:	927902
Ion Ratio	Lower	Upper	
83	100		
55	70.8	56.2	84.4
98	47.8	39.0	58.4





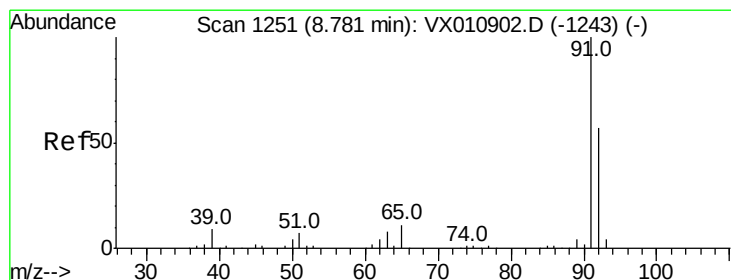
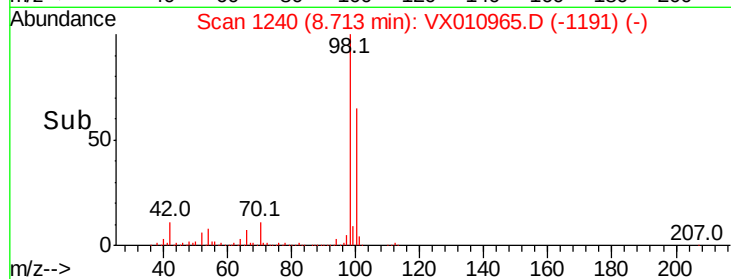
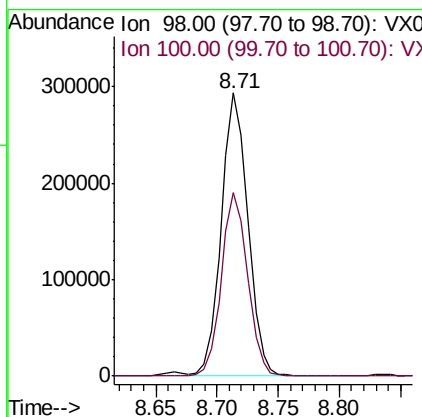
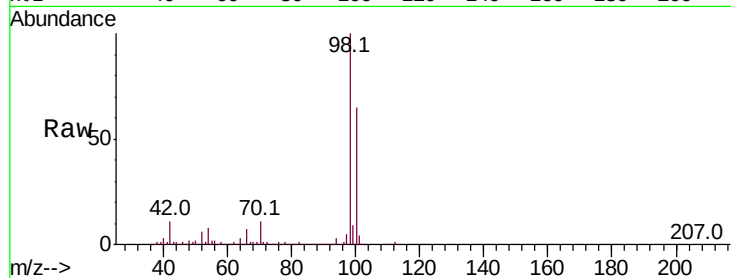
#50
Toluene-d8
Concen: 50.586 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX010965.D
Acq: 18 Jul 2019 17:42

Instrument :
MSVOA_X
ClientSampleId :
FL-0607

Tot Ion: 98 Resp: 441949
Ion Ratio Lower Upper
98 100
100 63.9 50.6 75.8

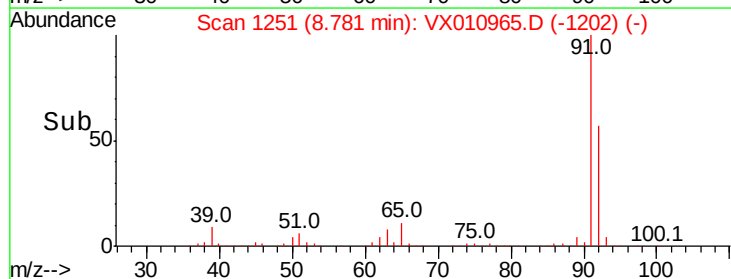
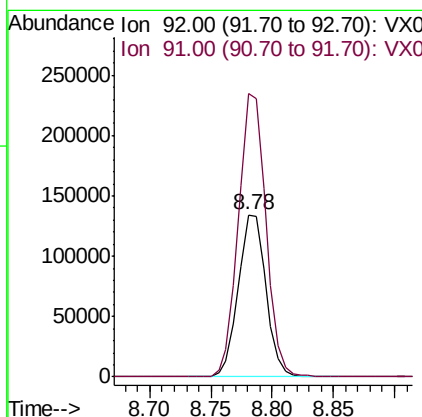
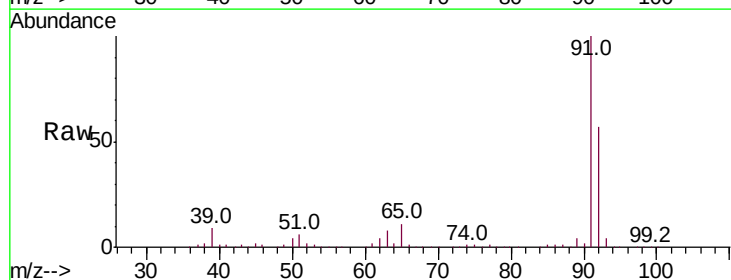
Manual Integrations
APPROVED

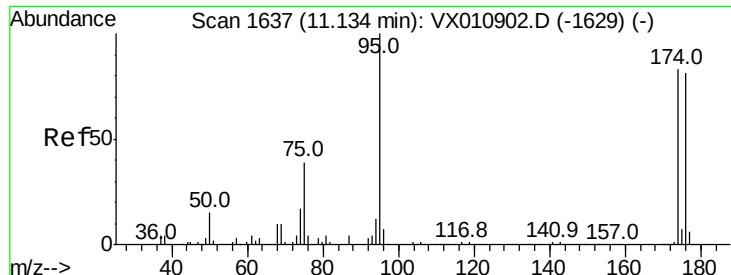
MMDadoda
7/22/2019 12:23:10 PM



#52
Toluene
Concen: 34.732 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VX010965.D
Acq: 18 Jul 2019 17:42

Tgt Ion: 92 Resp: 210686
Ion Ratio Lower Upper
92 100
91 174.0 139.4 209.0





#62

4-Bromofluorobenzene

Concen: 54.411 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

Instrument :

MSVOA_X

ClientSampled :

FL-0607

Tot Ion: 95 Resp: 174728

Ion Ratio Lower Upper

95 100

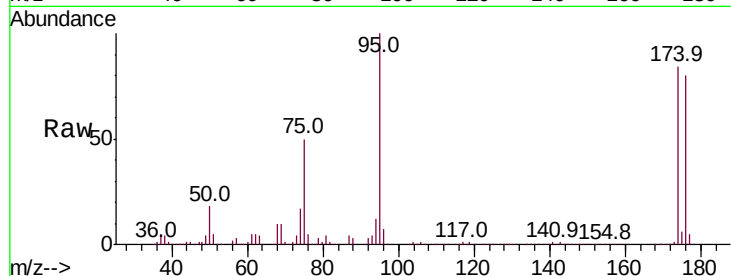
174 89.0 0.0 180.6

176 85.7 0.0 173.8

Manual Integrations
APPROVED

MMDadoda

7/22/2019 12:23:10 PM

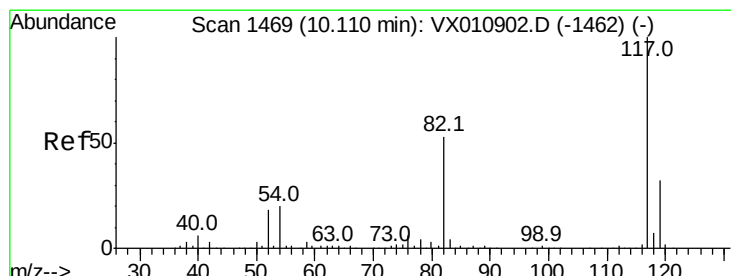
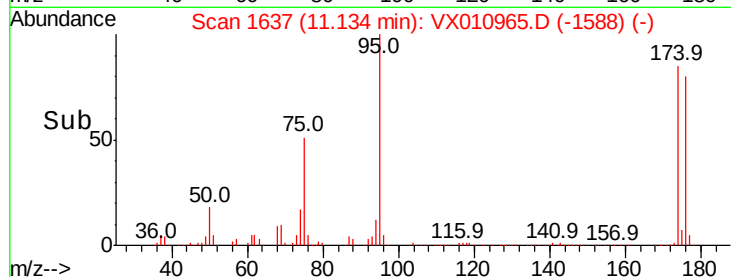
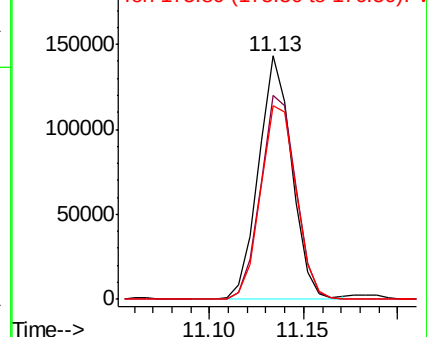


Abundance

Ion 94.90 (94.60 to 95.60): VX010902.D (-1629) (-)

Ion 173.80 (173.50 to 174.50): VX010902.D (-1629) (-)

Ion 175.80 (175.50 to 176.50): VX010902.D (-1629) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

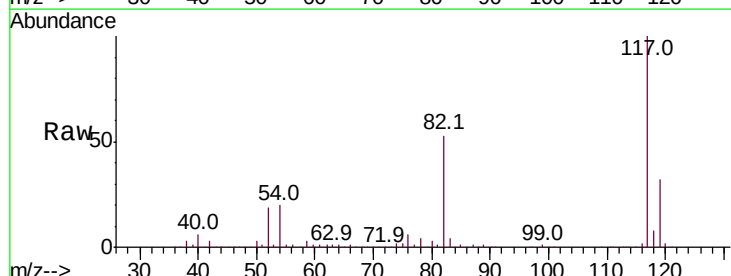
Tgt Ion: 117 Resp: 342596

Ion Ratio Lower Upper

117 100

82 52.9 42.6 63.8

119 32.1 25.9 38.9

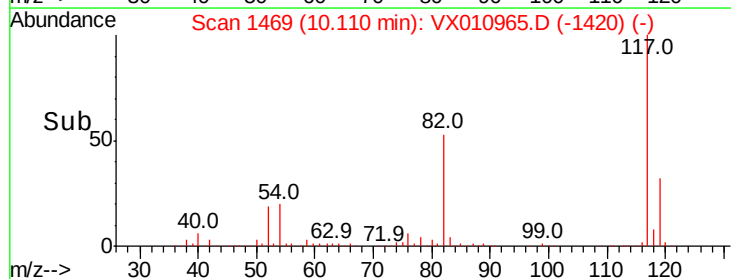
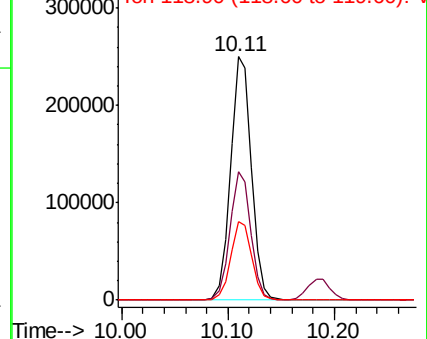


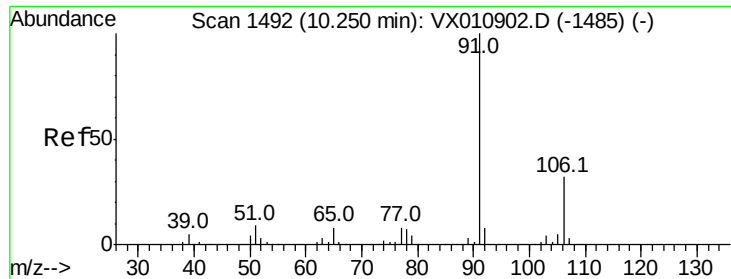
Abundance

Ion 116.90 (116.60 to 117.60): VX010902.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010902.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010902.D (-1462) (-)





#67

Ethyl Benzene

Concen: 152.367 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

Instrument :

MSVOA_X

ClientSampled :

FL-0607

Tot Ion: 91 Resp: 1824936

Ion Ratio Lower Upper

91 100

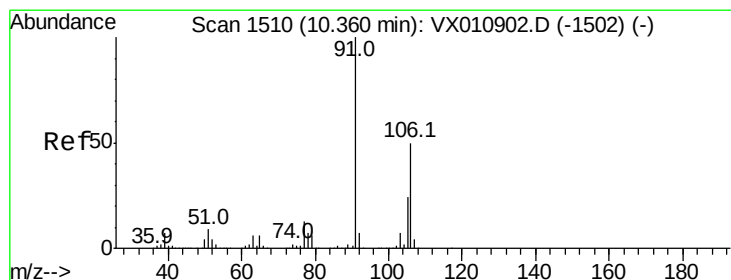
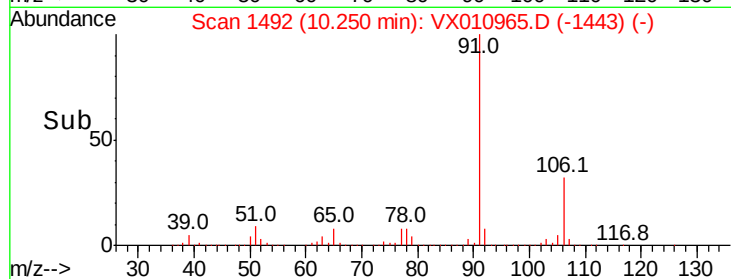
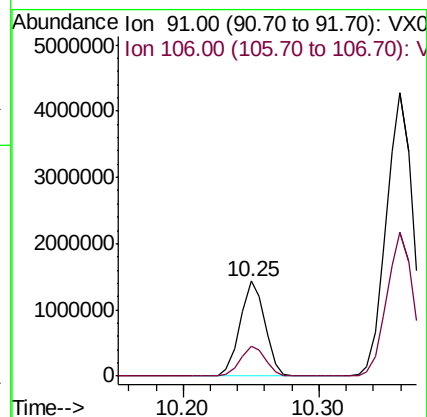
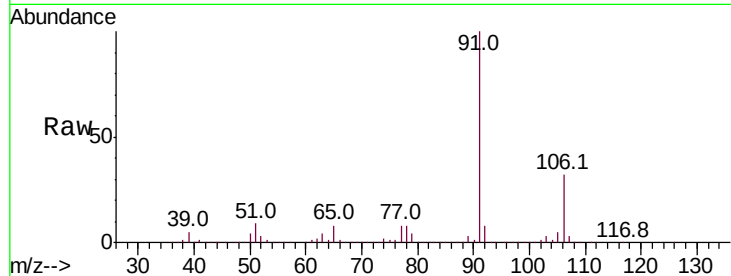
106 31.7 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

7/22/2019 12:23:10 PM



#68

m/p-Xylenes

Concen: 631.960 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX010965.D

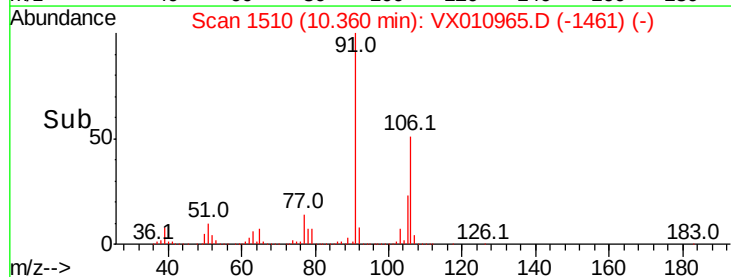
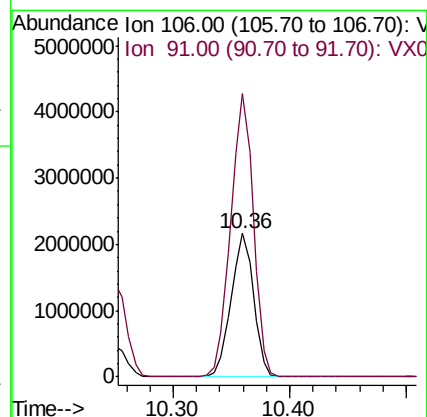
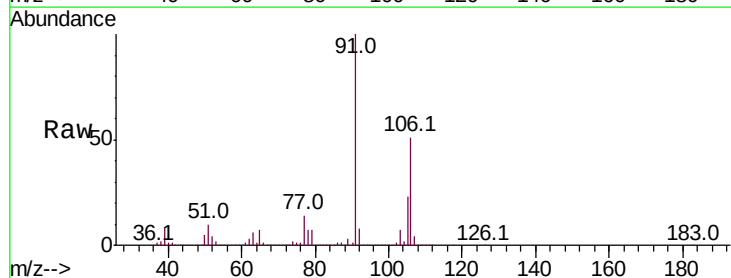
Acq: 18 Jul 2019 17:42

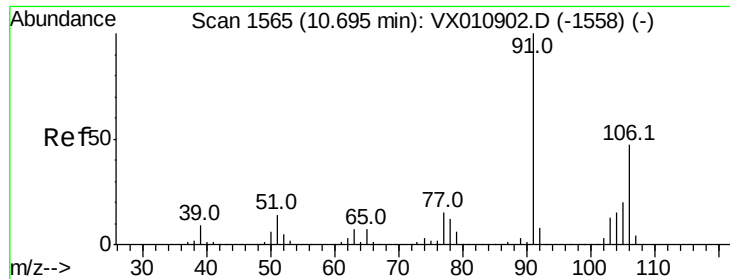
Tgt Ion: 106 Resp: 2903449

Ion Ratio Lower Upper

106 100

91 199.2 160.1 240.1





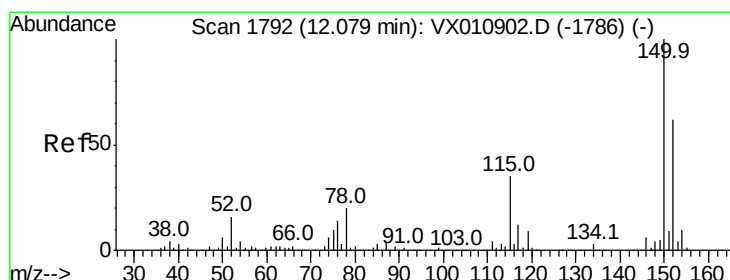
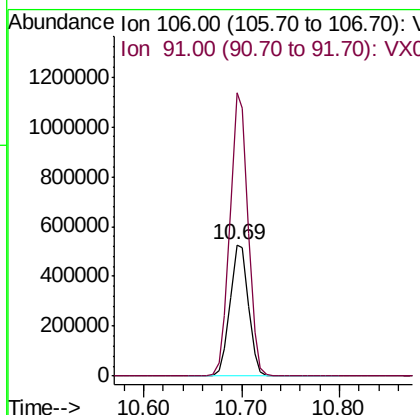
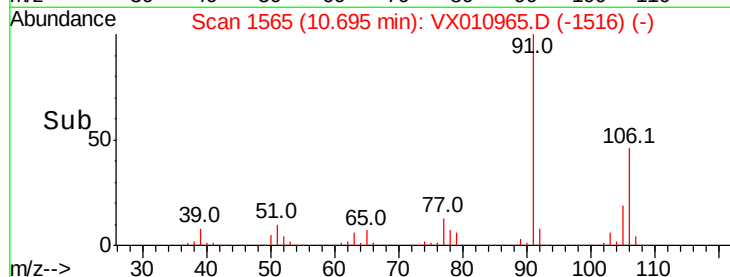
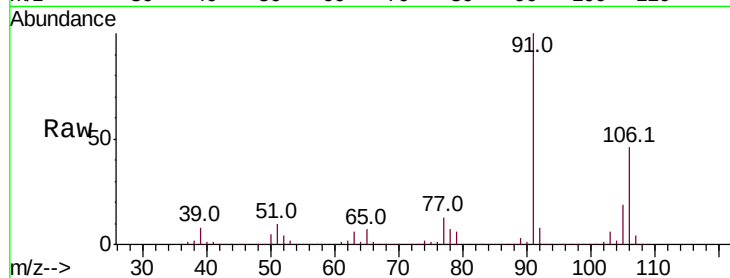
#69
o-Xylene
Concen: 153.876 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX010965.D
Acq: 18 Jul 2019 17:42

Instrument :
MSVOA_X
ClientSampled :
FL-0607

Tot Ion:106 Resp: 689959
Ion Ratio Lower Upper
106 100
91 211.5 105.1 315.3

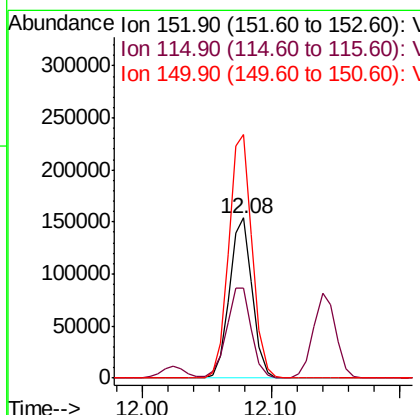
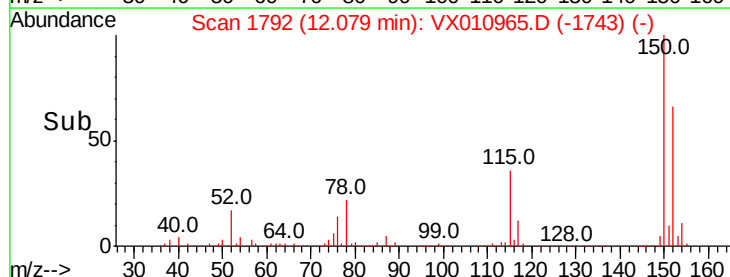
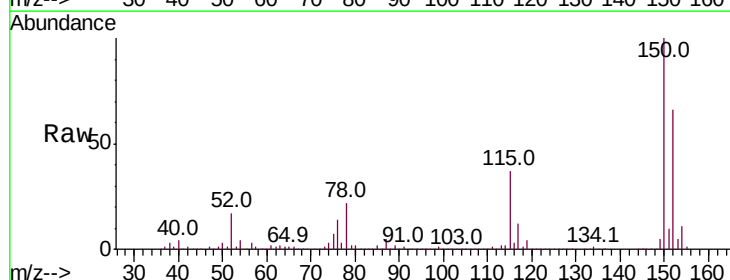
Manual Integrations
APPROVED

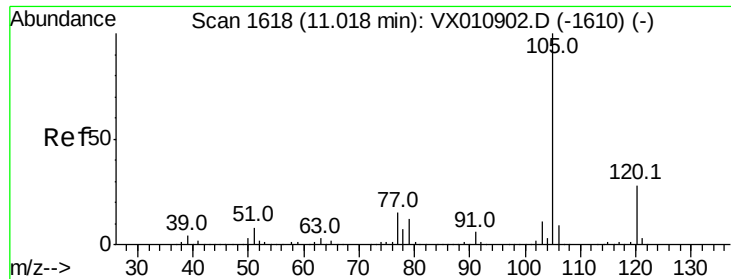
MMDadoda
7/22/2019 12:23:10 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010965.D
Acq: 18 Jul 2019 17:42

Tgt Ion:152 Resp: 189648
Ion Ratio Lower Upper
152 100
115 61.4 39.7 119.1
150 156.5 0.0 345.6





#73

Isopropylbenzene

Concen: 49.286 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

Instrument :

MSVOA_X

ClientSampled :

FL-0607

Tot Ion:105 Resp: 631576

Ion Ratio Lower Upper

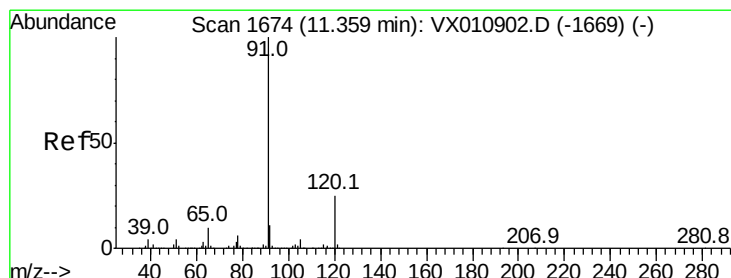
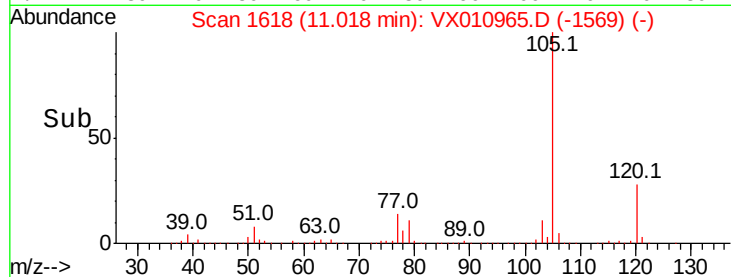
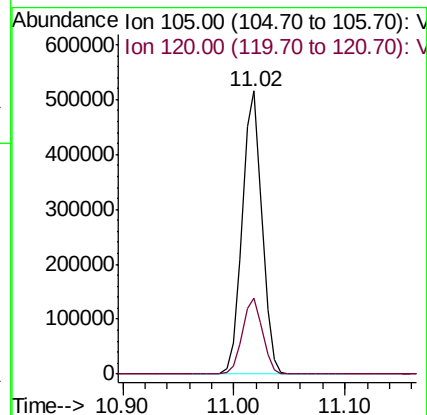
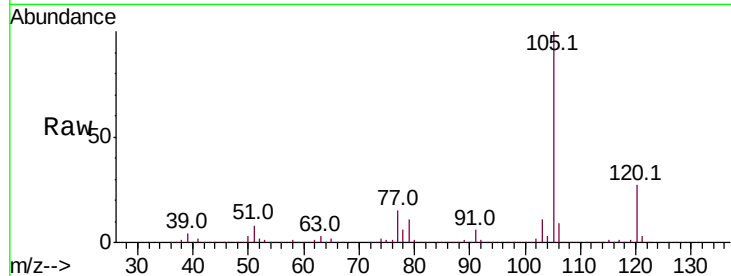
105 100

120 27.3 13.7 41.1

Manual Integrations
APPROVED

MMDadoda

7/22/2019 12:23:10 PM



#78

n-propylbenzene

Concen: 83.262 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX010965.D

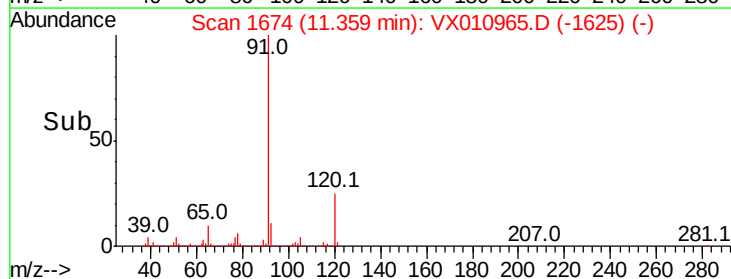
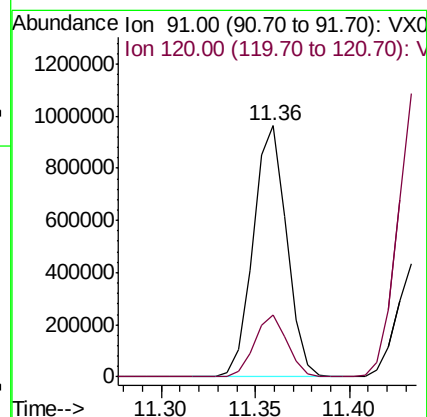
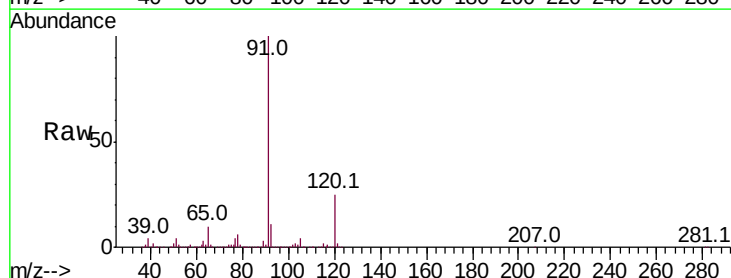
Acq: 18 Jul 2019 17:42

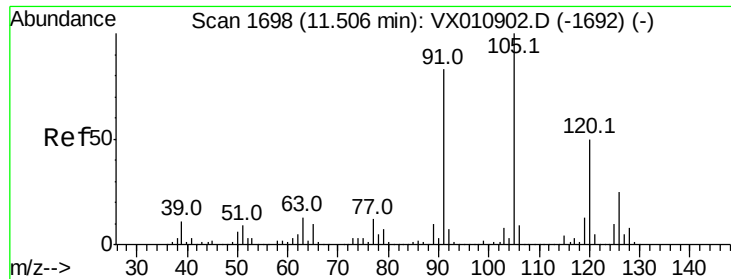
Tgt Ion: 91 Resp: 1178911

Ion Ratio Lower Upper

91 100

120 24.0 12.3 36.8





#80

1,3,5-Trimethylbenzene

Concen: 249.851 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

FL-0607

Tot Ion:105 Resp: 2675348

Ion Ratio Lower Upper

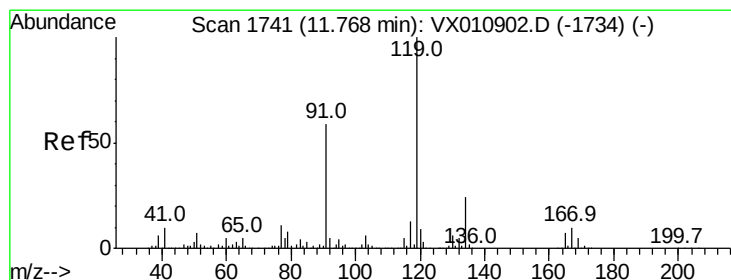
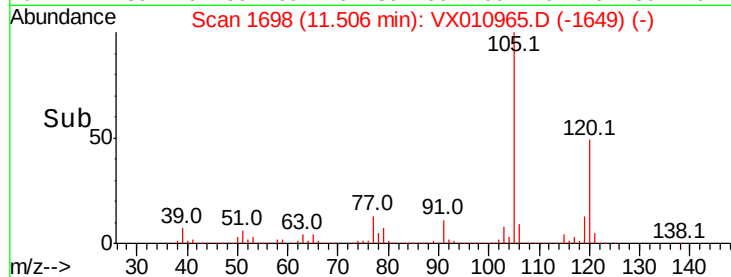
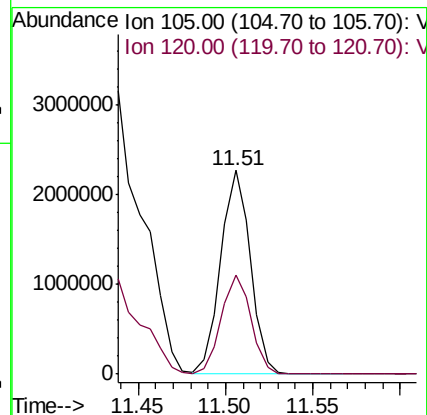
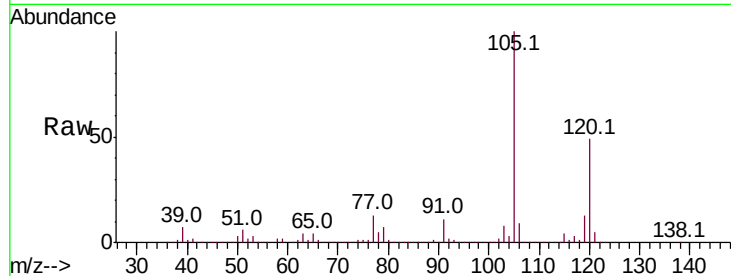
105 100

120 48.9 24.6 73.8

Manual Integrations
APPROVED

MMDadoda

7/22/2019 12:23:10 PM



#83

tert-Butylbenzene

Concen: 4.947 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

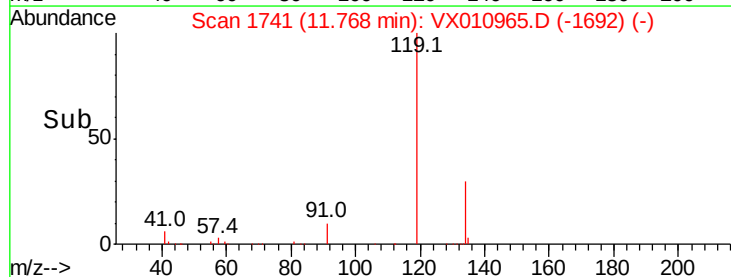
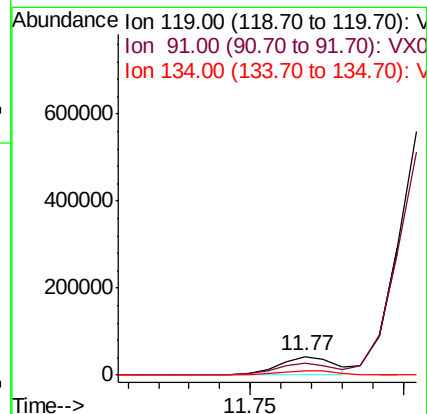
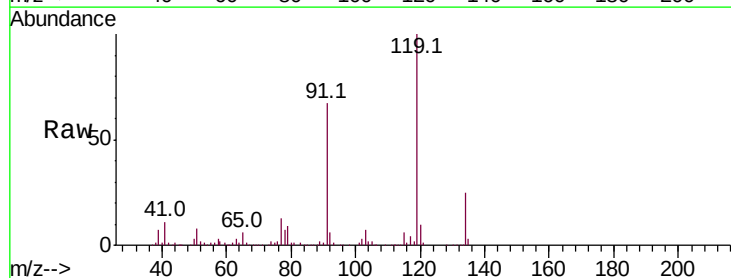
Tgt Ion:119 Resp: 52036

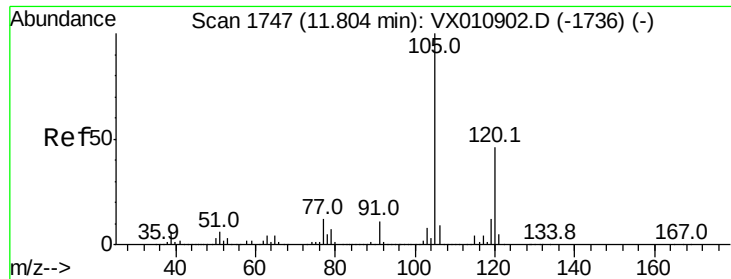
Ion Ratio Lower Upper

119 100

91 66.9 28.6 85.8

134 26.3 11.6 34.8





#84

1,2,4-Trimethylbenzene

Concen: 581.226 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

Instrument :

MSVOA_X

ClientSampled :

FL-0607

Tot Ion:105 Resp: 6272814

Ion Ratio Lower Upper

105 100

120 46.7

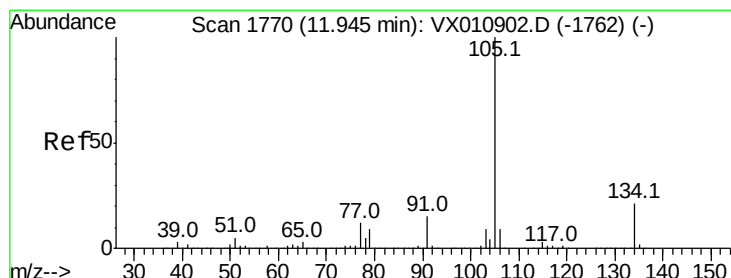
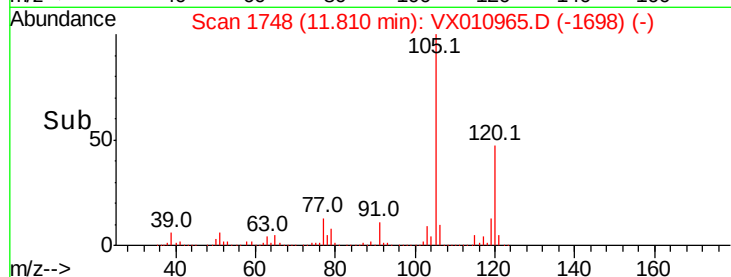
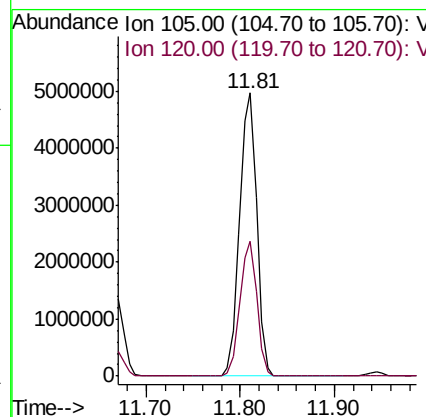
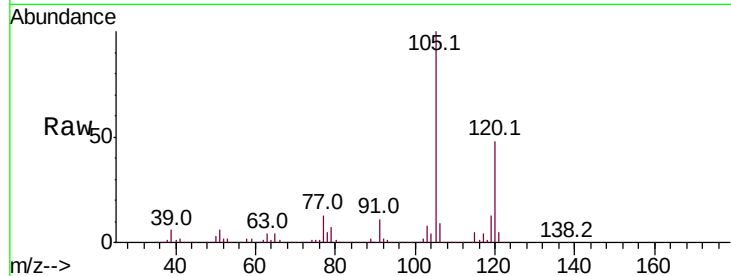
22.9 68.5

Manual Integrations

APPROVED

MMDadoda

7/22/2019 12:23:10 PM



#85

sec-Butylbenzene

Concen: 7.277 ug/l m

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

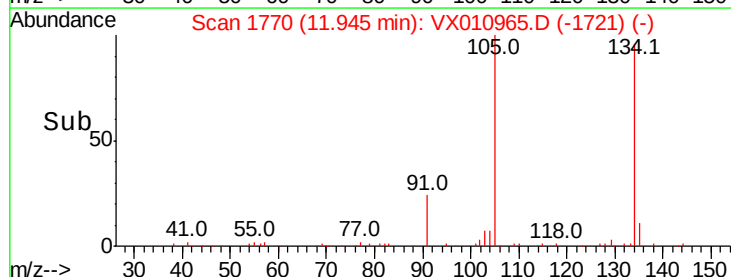
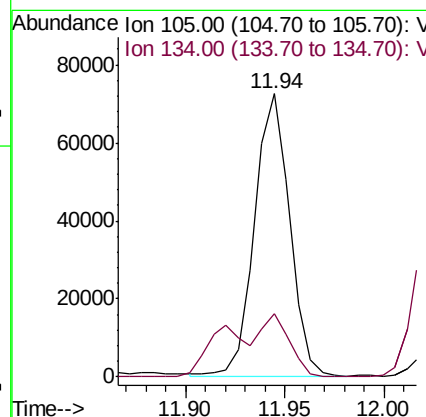
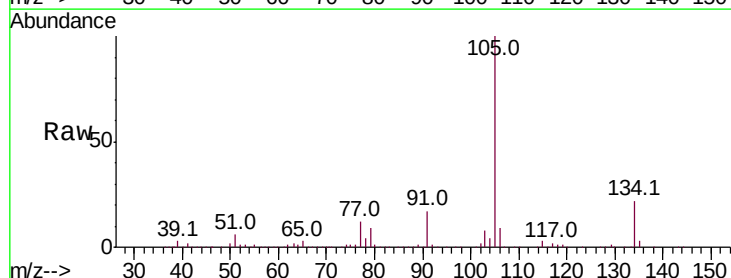
Tgt Ion:105 Resp: 89686

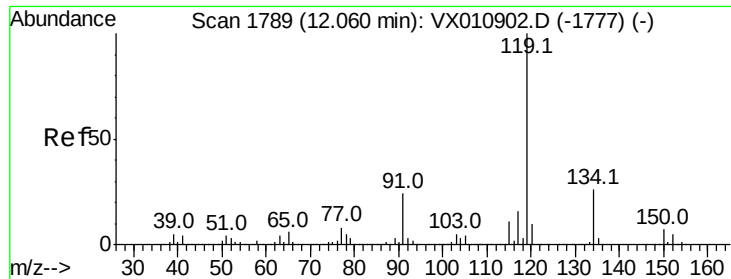
Ion Ratio Lower Upper

105 100

134 0.0

10.4 31.4#





#86

p-Isopropyltoluene

Concen: 8.758 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

Instrument :

MSVOA_X

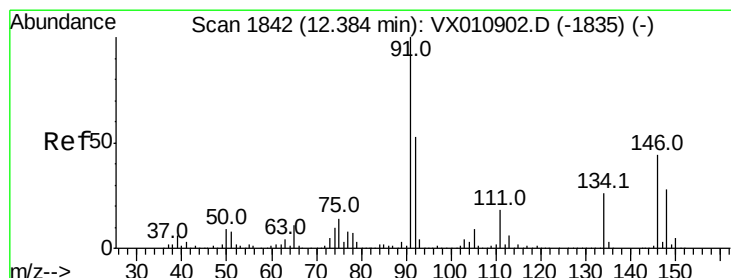
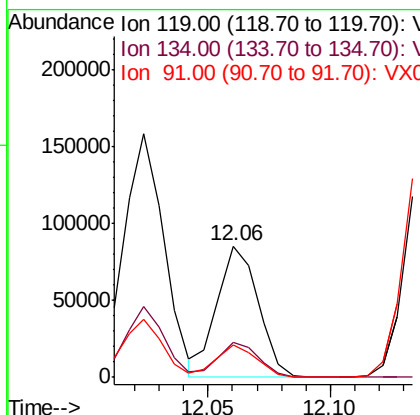
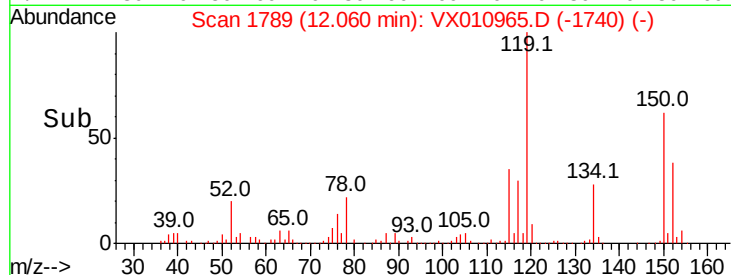
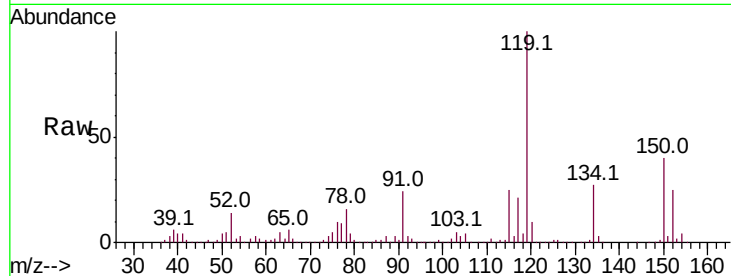
ClientSampled :

FL-0607

Tot Ion:	119	Resp:	99788
Ion Ratio	Lower	Upper	
119	100		
134	26.8	13.4	40.1
91	24.1	11.8	35.4

Manual Integrations
APPROVED

MMDadoda
7/22/2019 12:23:10 PM



#89

n-Butylbenzene

Concen: 23.110 ug/l

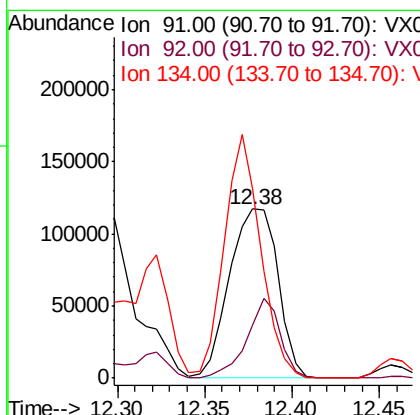
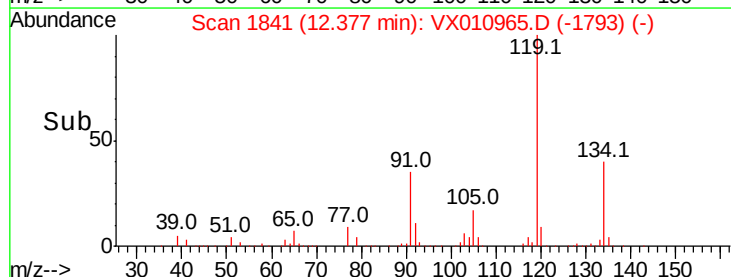
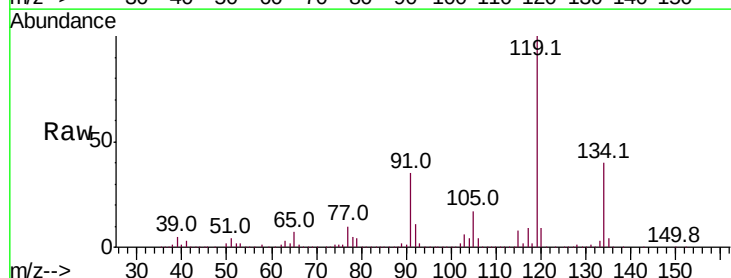
RT: 12.38 min Scan# 1841

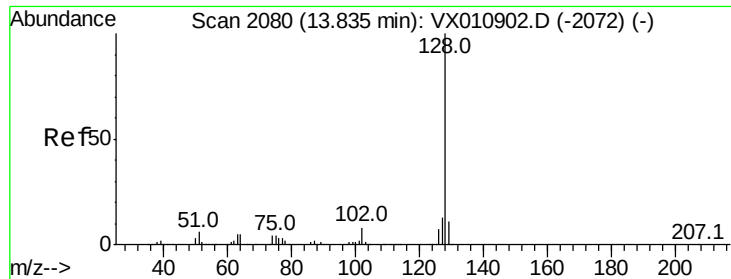
Delta R.T. -0.01 min

Lab File: VX010965.D

Acq: 18 Jul 2019 17:42

Tgt Ion:	91	Resp:	225262
Ion Ratio	Lower	Upper	
91	100		
92	32.7	26.2	78.5
134	108.0	13.8	41.3#





#95
Naphthalene
Concen: 91.291 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX010965.D
Acq: 18 Jul 2019 17:42

Instrument :
MSVOA_X
ClientSampleId :
FL-0607

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.4	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
7/22/2019 12:23:10 PM

