

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010919\
 Data File : VF061335.D
 Acq On : 10 Jan 2019 9:24
 Operator : VA/AP
 Sample : K1099-01
 Misc : 6.36g/5mL/MSVOA-F/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-15

Manual Integrations
 APPROVED

MMDadoda
 1/10/2019 3:33:27 PM

Quant Time: Jan 10 15:40:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	35252	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	46952	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	26671	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	9573	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	6106	15.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	31.12%	
35) Dibromofluoromethane	4.12	113	9918	27.61	ug/l	0.01
Spiked Amount 50.000			Recovery	=	55.22%	
50) Toluene-d8	7.57	98	43655	41.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.12%	
62) 4-Bromofluorobenzene	11.42	95	14986	32.28	ug/l	0.01
Spiked Amount 50.000			Recovery	=	64.56%	
Target Compounds						
					Qvalue	
31) Cyclohexane	3.71	56	464209	583.936	ug/l	93
39) Methylcyclohexane	5.47	83	817037	1190.939	ug/l	96
52) Toluene	7.64	92	68575	83.347	ug/l	89
67) Ethyl Benzene	9.92	91	171824	165.465	ug/l	96
68) m/p-Xylenes	10.14	106	348774	962.861	ug/l	97
69) o-Xylene	10.72	106	128155	316.720	ug/l	98
73) Isopropylbenzene	11.14	105	57472	68.227	ug/l	93
78) n-propylbenzene	11.60	91	263038	261.896	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	309564	461.842	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	800341	1202.657	ug/l	99
85) sec-Butylbenzene	12.31	105	36351	38.230	ug/l #	59
86) p-Isopropyltoluene	12.47	119	11201m	14.483	ug/l	
89) n-Butylbenzene	12.85	91	106316	133.789	ug/l #	80
95) Naphthalene	14.46	128	18374	45.357	ug/l #	89

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

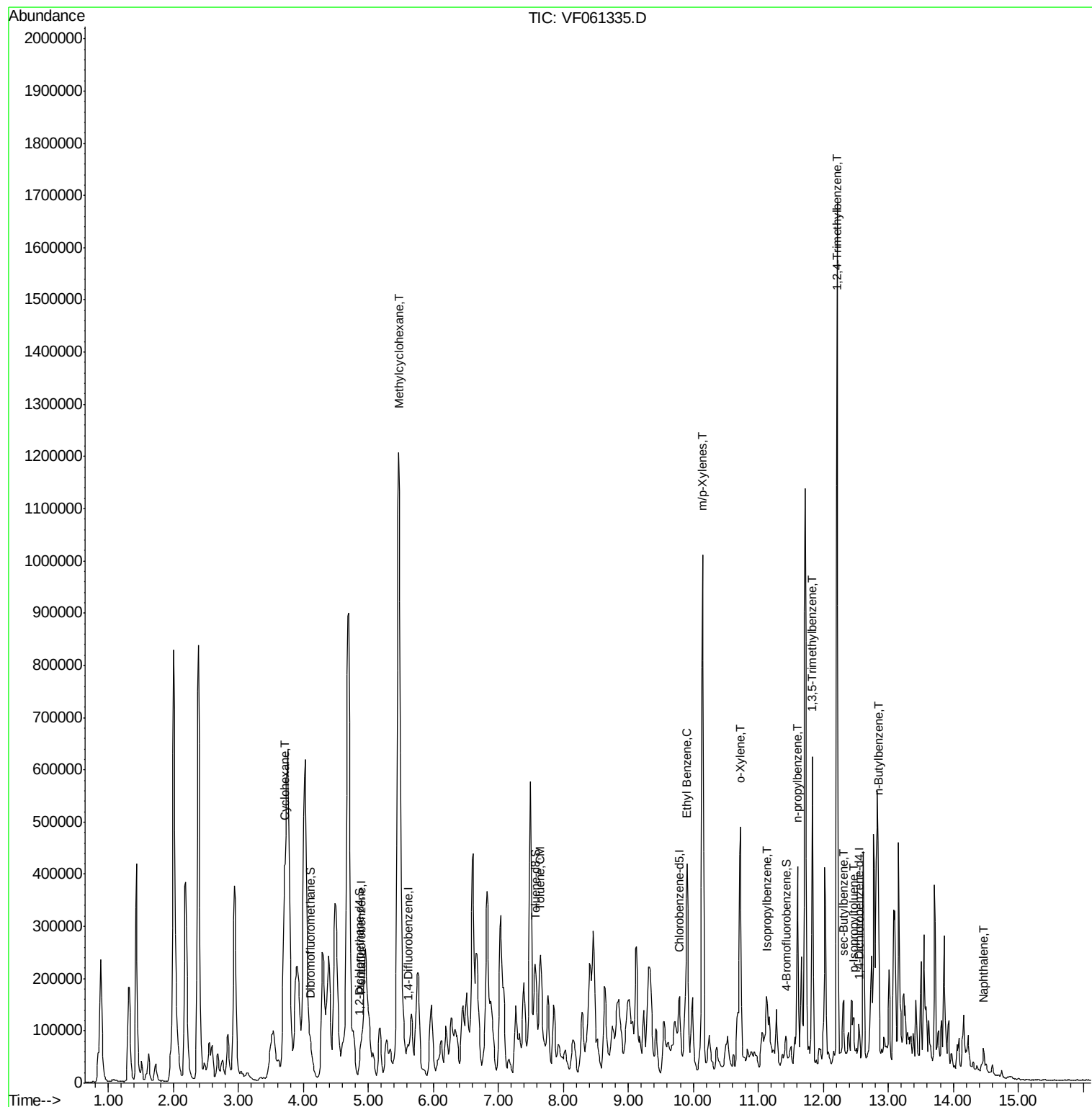
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF010919\
Data File : VF061335.D
Acq On : 10 Jan 2019 9:24
Operator : VA/AP
Sample : K1099-01
Misc : 6.36g/5mL/MSVOA-F/SOIL
ALS Vial : 48 Sample Multiplier: 1

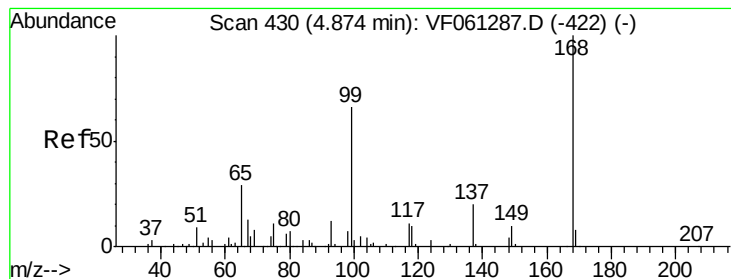
Instrument :
MSVOA_F
ClientSampleId :
TP-15

Quant Time: Jan 10 15:40:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration

Manual Integrations
APPROVED

MMDadoda
1/10/2019 3:33:27 PM





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

Instrument :

MSVOA_F

ClientSampled :

TP-15

Tot Ion:168 Resp: 35252

Ion Ratio Lower Upper

168 100

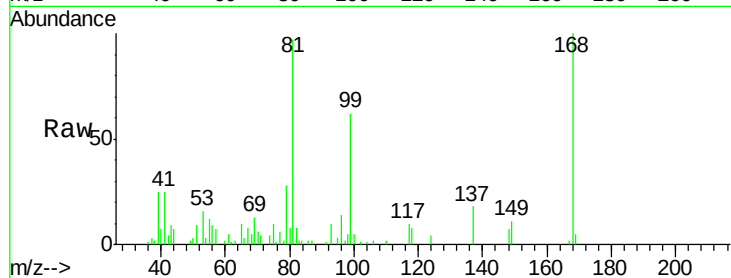
99 62.3 52.7 79.1

Manual Integrations

APPROVED

MMDadoda

1/10/2019 3:33:27 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

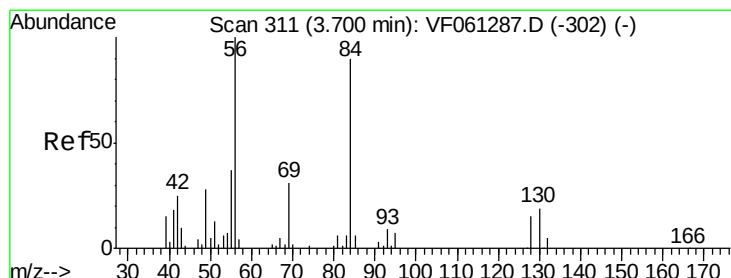
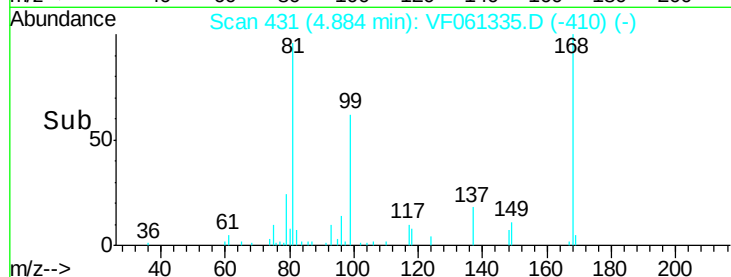
10000

5000

0

4.80 4.90 5.00

Time-->



#31

Cyclohexane

Concen: 583.936 ug/l

RT: 3.71 min Scan# 312

Delta R.T. 0.01 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

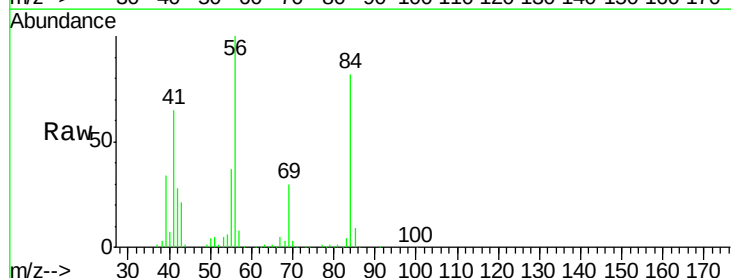
Tgt Ion: 56 Resp: 464209

Ion Ratio Lower Upper

56 100

69 30.0 24.7 37.1

84 81.9 72.2 108.4



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0

3.71

120000

100000

80000

60000

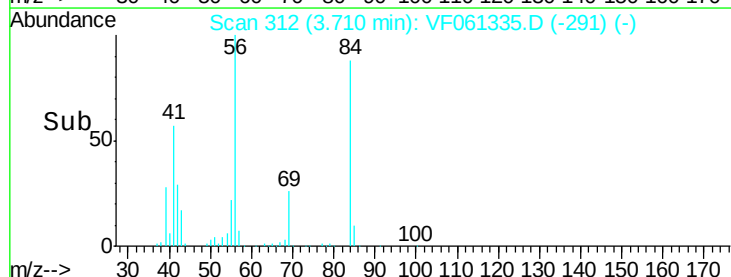
40000

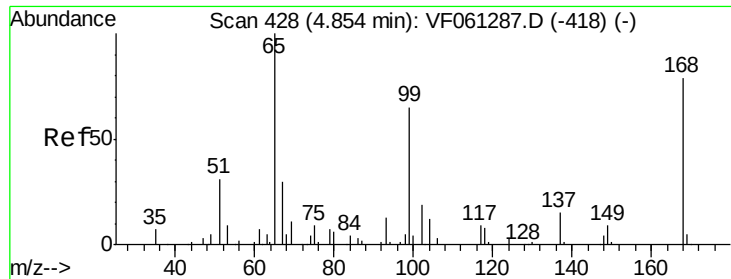
20000

0

3.50 3.60 3.70 3.80 3.90

Time-->





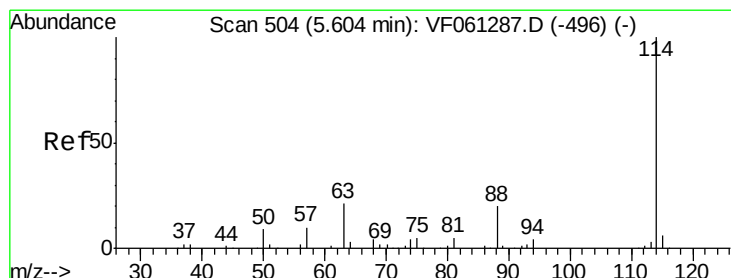
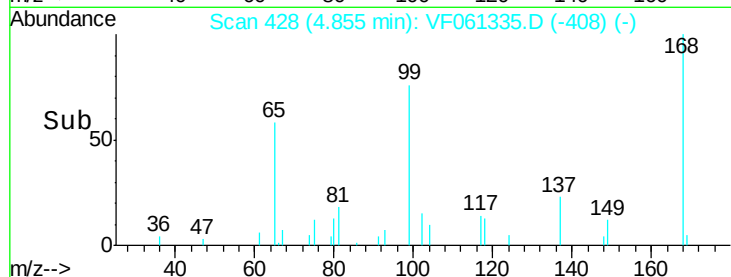
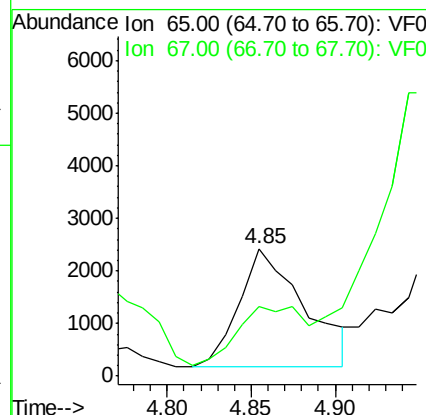
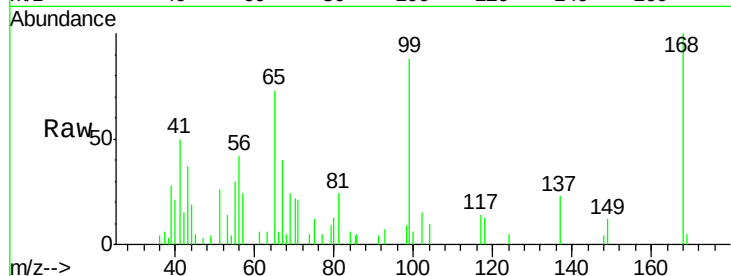
#33
 1,2-Dichloroethane-d4
 Concen: 15.562 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VF061335.D
 Acq: 10 Jan 2019 9:24

Instrument :
 MSVOA_F
 ClientSampled :
 TP-15

Tot Ion: 65 Resp: 6106
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 98.2

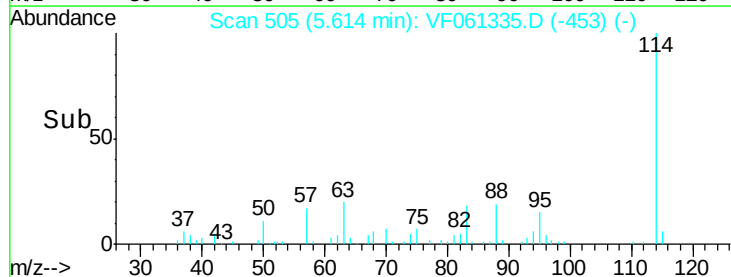
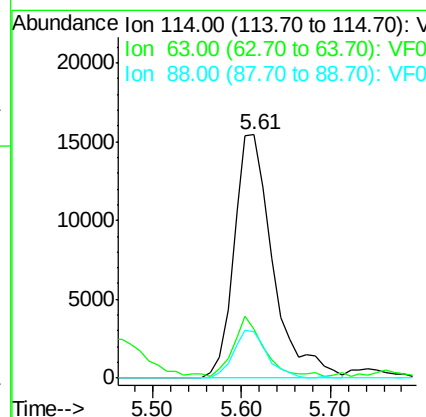
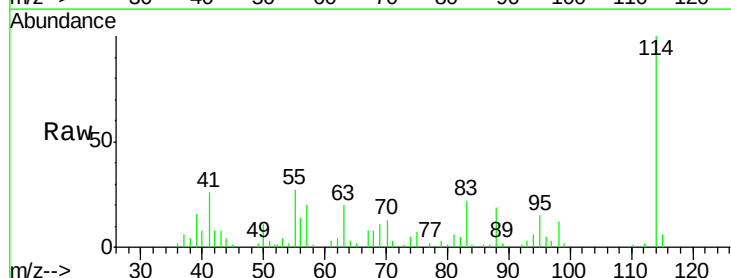
Manual Integrations
 APPROVED

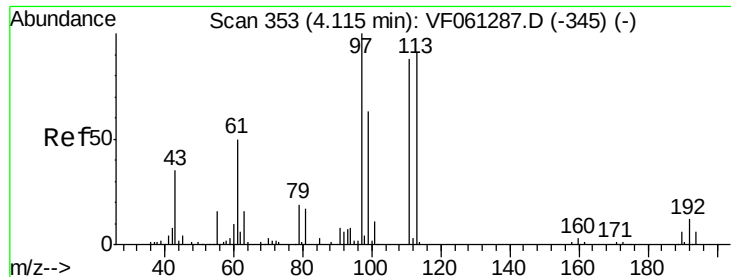
MMDadoda
 1/10/2019 3:33:27 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VF061335.D
 Acq: 10 Jan 2019 9:24

Tgt Ion: 114 Resp: 46952
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 42.8
 88 19.2 0.0 40.0





#35

Dibromofluoromethane

Concen: 27.607 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

Instrument :

MSVOA_F

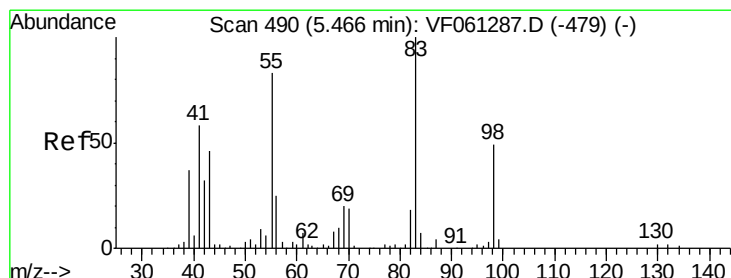
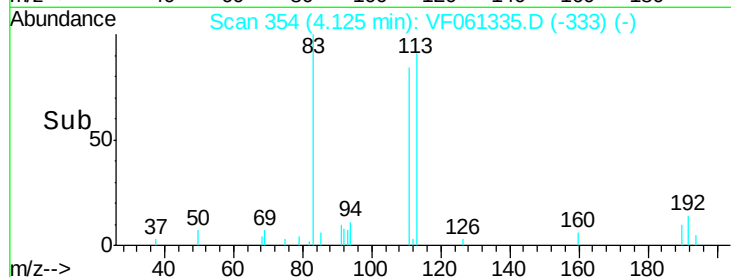
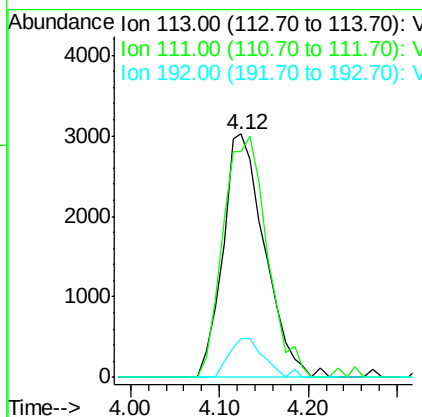
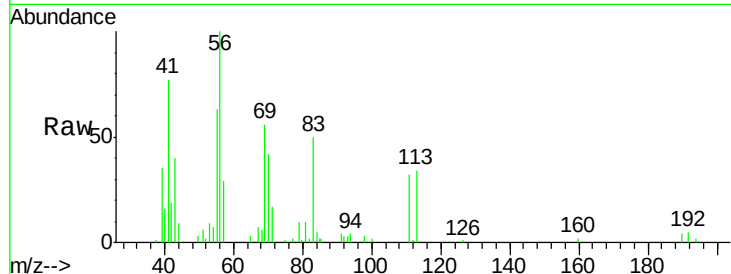
ClientSampleId :

TP-15

Tot Ion:	113	Resp:	9918
Ion	Ratio	Lower	Upper
113	100		
111	92.6	78.0	117.0
192	15.9	10.6	16.0

Manual Integrations
APPROVED

MMDadoda
1/10/2019 3:33:27 PM



#39

Methylcyclohexane

Concen: 1190.939 ug/l

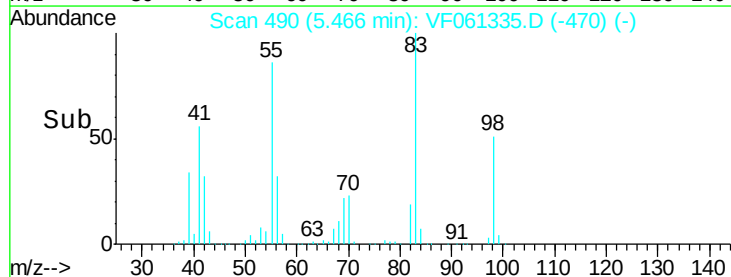
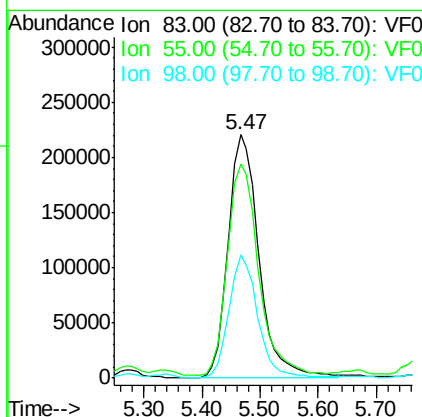
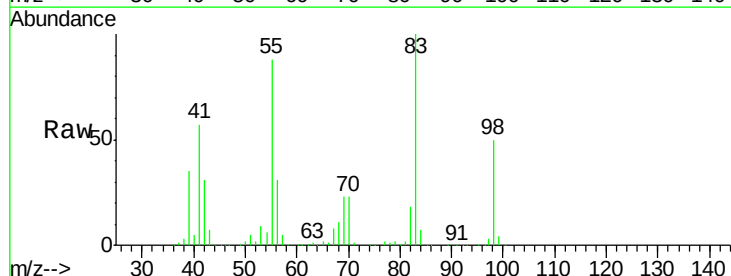
RT: 5.47 min Scan# 490

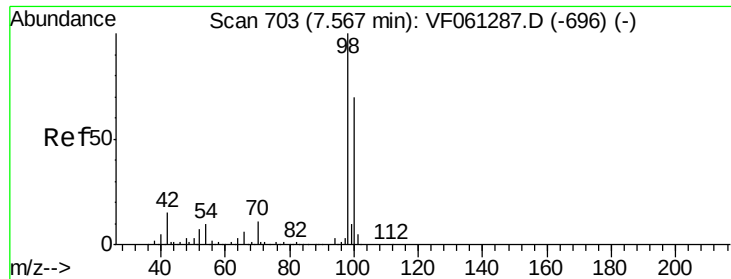
Delta R.T. 0.00 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

Tgt Ion:	83	Resp:	817037
Ion	Ratio	Lower	Upper
83	100		
55	88.0	66.4	99.6
98	50.4	39.1	58.7





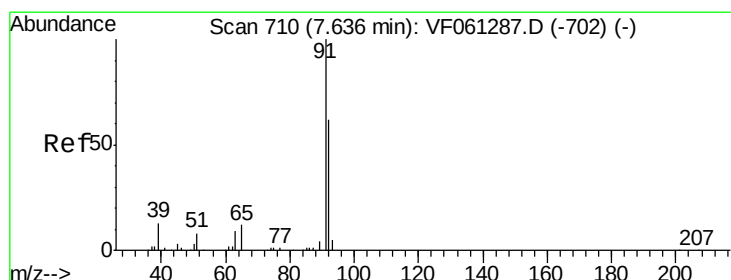
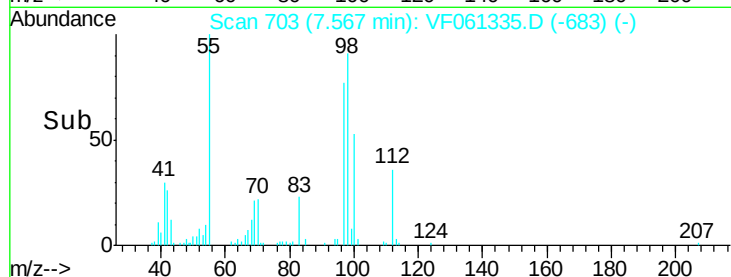
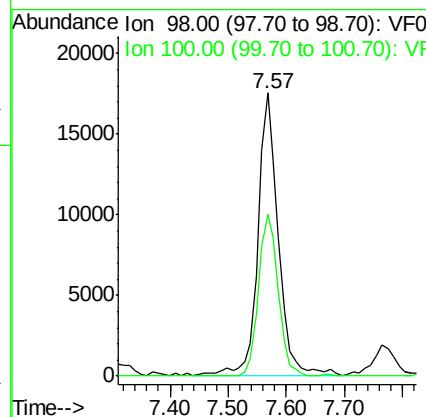
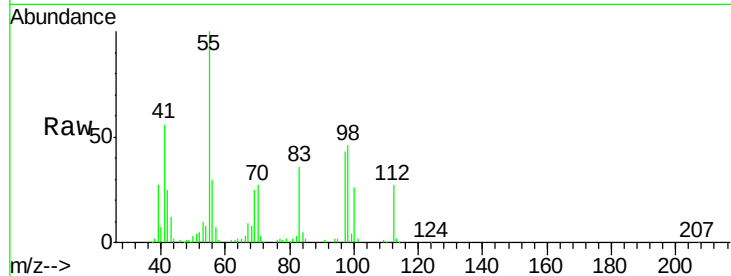
#50
Toluene-d8
Concen: 41.062 ug/l
RT: 7.57 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF061335.D
Acq: 10 Jan 2019 9:24

Instrument :
MSVOA_F
ClientSampleId :
TP-15

Tot Ion: 98 Resp: 43655
Ion Ratio Lower Upper
98 100
100 57.0 55.6 83.4

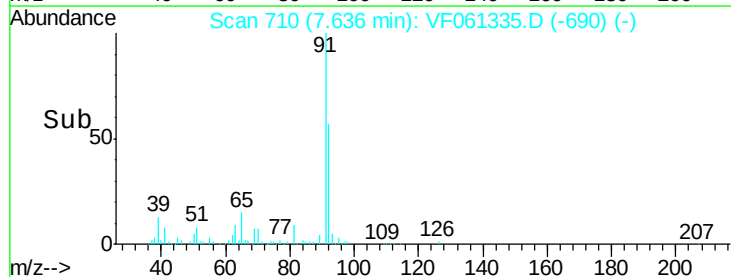
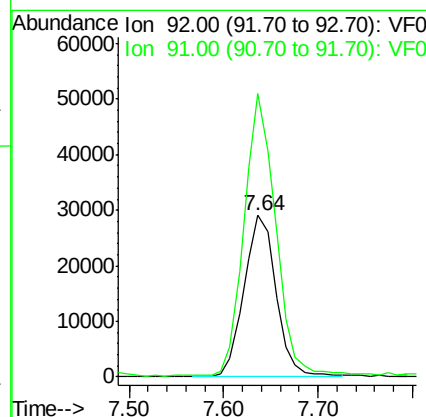
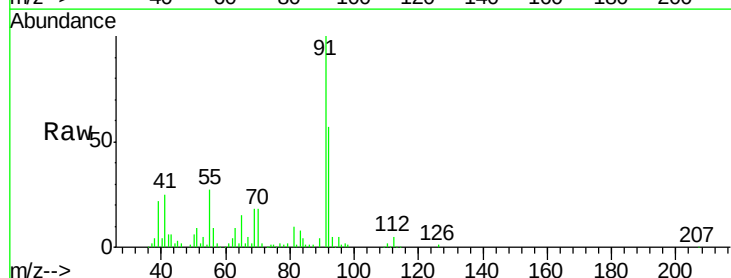
Manual Integrations
APPROVED

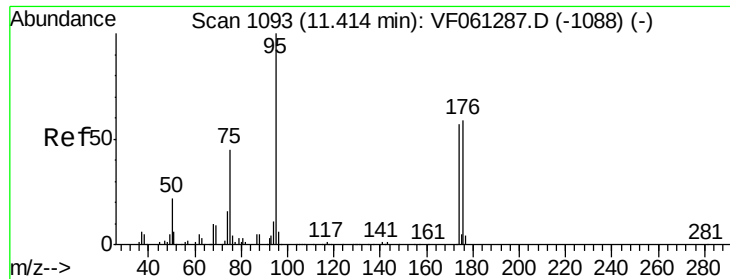
MMDadoda
1/10/2019 3:33:27 PM



#52
Toluene
Concen: 83.347 ug/l
RT: 7.64 min Scan# 710
Delta R.T. 0.00 min
Lab File: VF061335.D
Acq: 10 Jan 2019 9:24

Tgt Ion: 92 Resp: 68575
Ion Ratio Lower Upper
92 100
91 175.5 129.2 193.8





#62

4-Bromofluorobenzene

Concen: 32.281 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

Instrument :

MSVOA_F

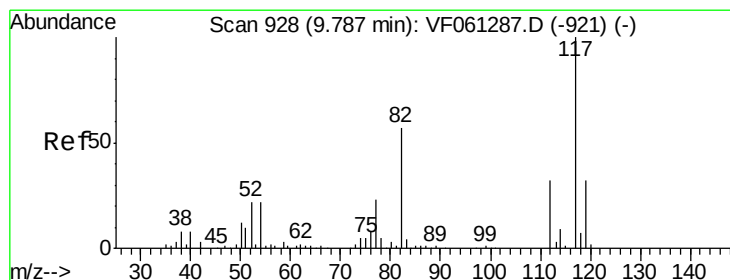
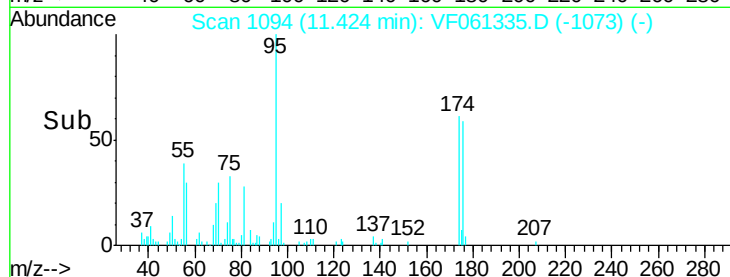
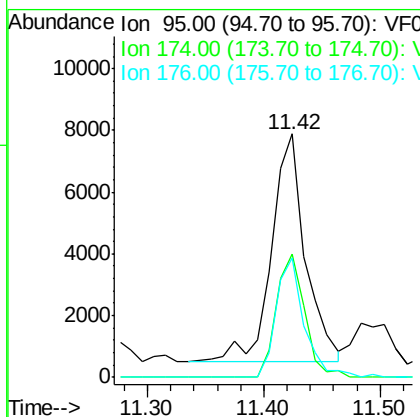
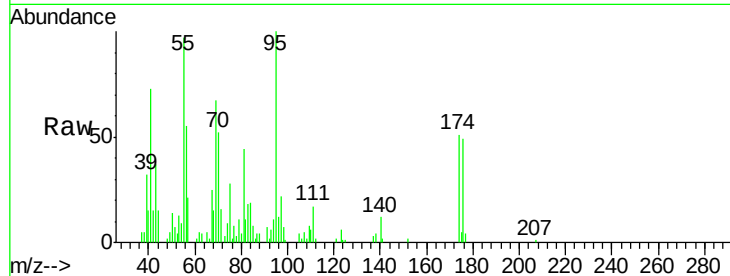
ClientSampled :

TP-15

Tot Ion:	95	Resp:	14986
Ion Ratio	Lower	Upper	
95	100		
174	50.8	0.0	114.2
176	49.1	0.0	117.8

Manual Integrations
APPROVED

MMDadoda
1/10/2019 3:33:27 PM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

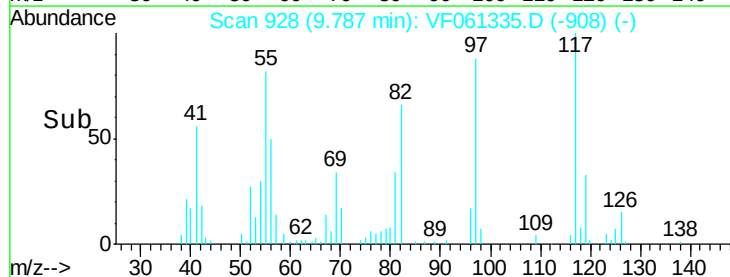
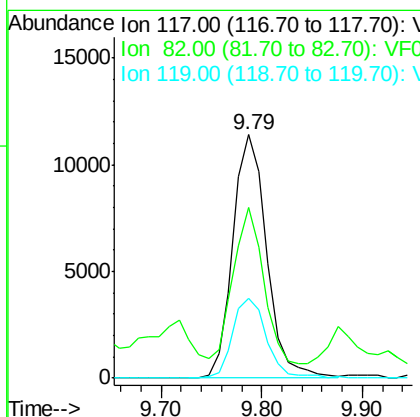
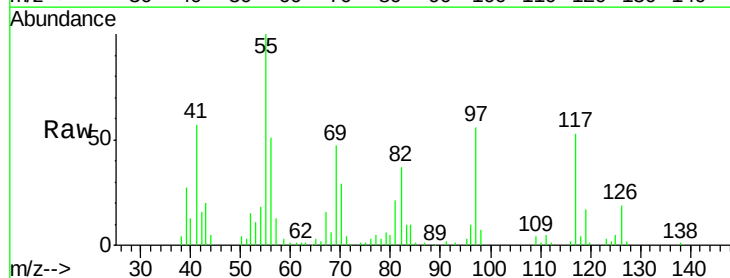
RT: 9.79 min Scan# 928

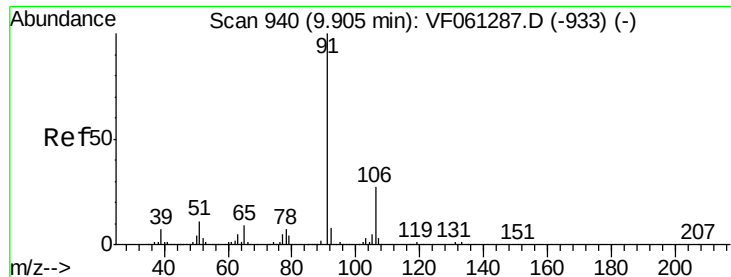
Delta R.T. 0.00 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

Tgt Ion:	117	Resp:	26671
Ion Ratio	Lower	Upper	
117	100		
82	70.0	45.3	67.9#
119	33.0	25.4	38.0





#67

Ethyl Benzene

Concen: 165.465 ug/l

RT: 9.92 min Scan# 941

Delta R.T. 0.01 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

Instrument :

MSVOA_F

ClientSampled :

TP-15

Tot Ion: 91 Resp: 171824

Ion Ratio Lower Upper

91 100

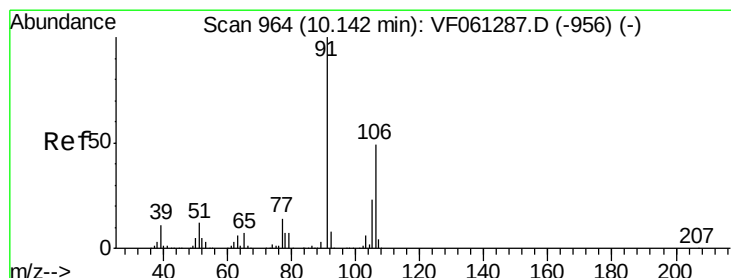
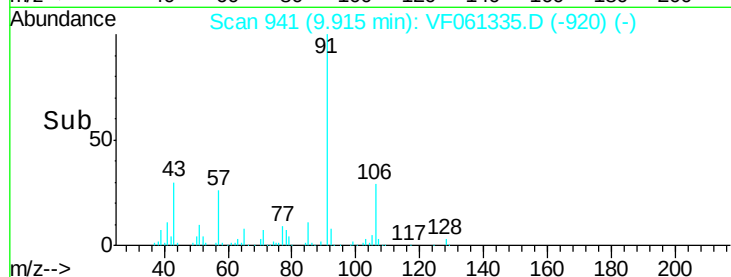
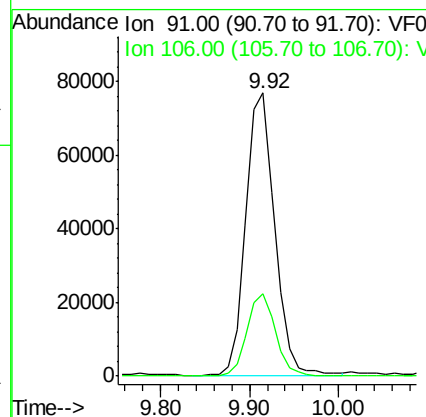
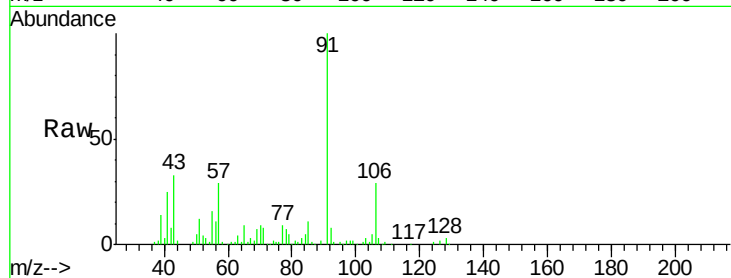
106 29.0 21.4 32.2

Manual Integrations

APPROVED

MMDadoda

1/10/2019 3:33:27 PM



#68

m/p-Xylenes

Concen: 962.861 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF061335.D

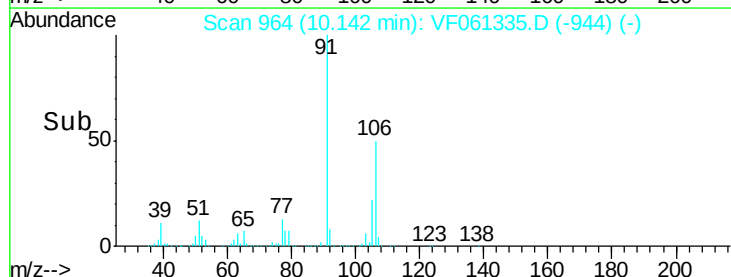
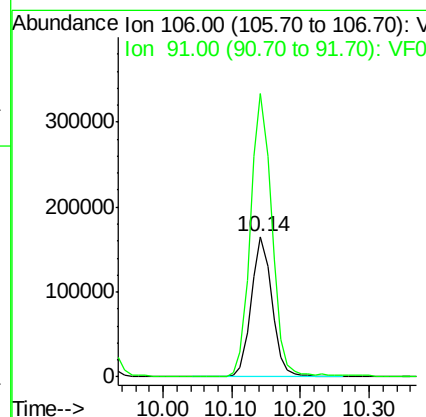
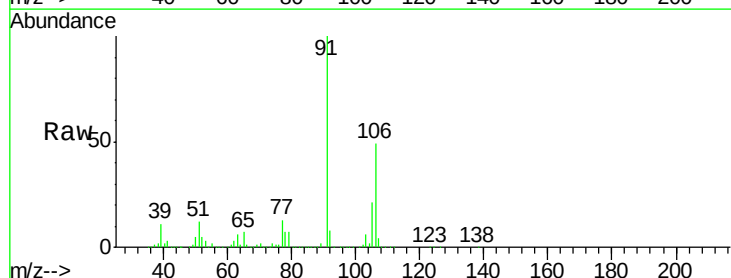
Acq: 10 Jan 2019 9:24

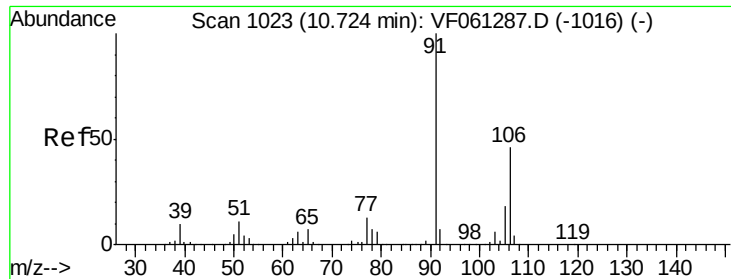
Tgt Ion: 106 Resp: 348774

Ion Ratio Lower Upper

106 100

91 202.2 165.0 247.6





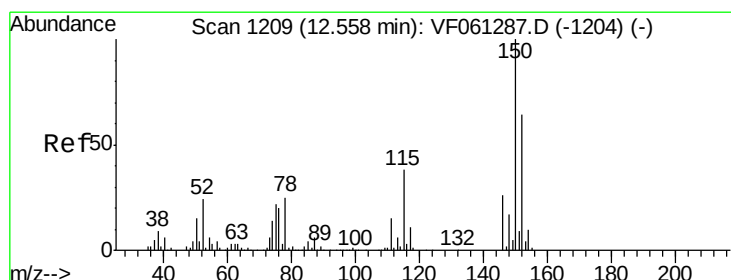
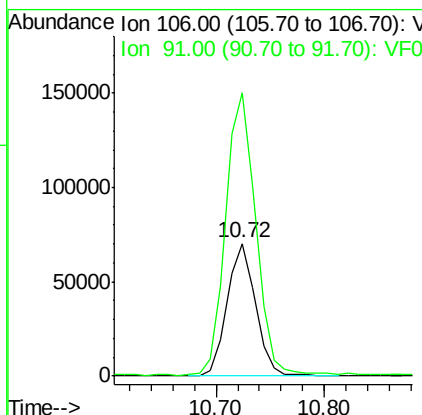
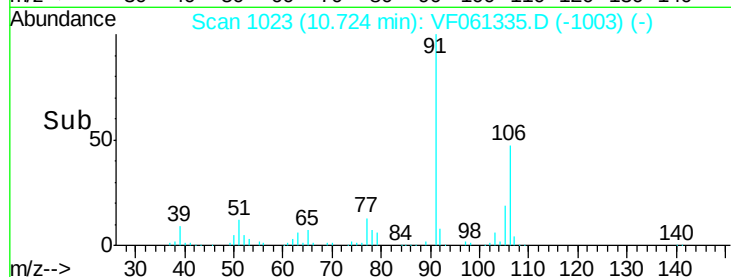
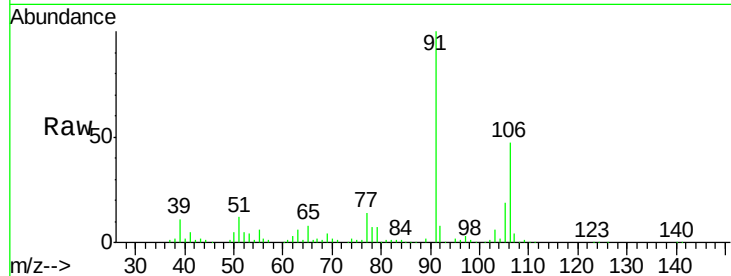
#69
o-Xylene
Concen: 316.720 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF061335.D
Acq: 10 Jan 2019 9:24

Instrument :
MSVOA_F
ClientSampled :
TP-15

Tot Ion	Ratio	Resp	Lower	Upper
106	100	128155		
91	213.9	108.1	324.4	

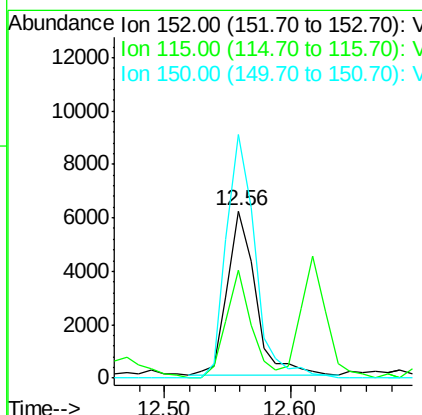
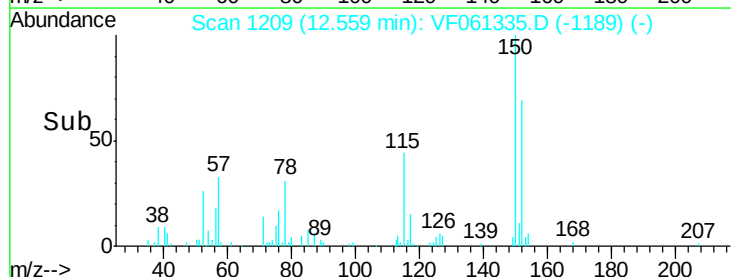
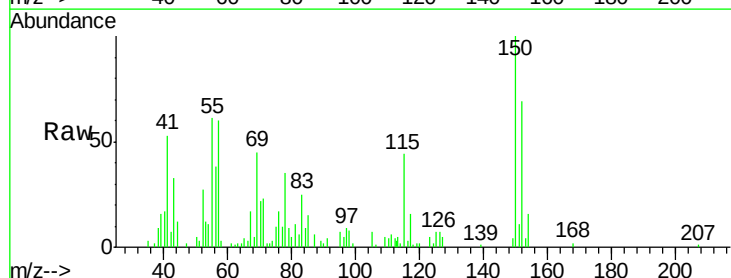
Manual Integrations
APPROVED

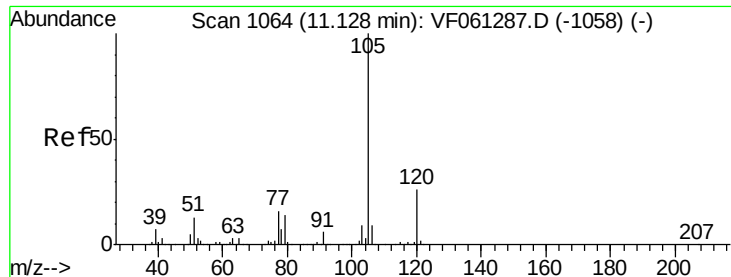
MMDadoda
1/10/2019 3:33:27 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF061335.D
Acq: 10 Jan 2019 9:24

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	9573		
115	64.3	29.6	88.9	
150	145.5	0.0	315.4	





#73

Isopropylbenzene

Concen: 68.227 ug/l

RT: 11.14 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

Instrument :

MSVOA_F

ClientSampleId :

TP-15

Tot Ion:105 Resp: 57472

Ion Ratio Lower Upper

105 100

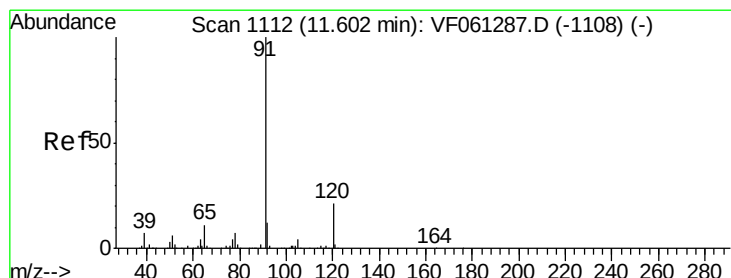
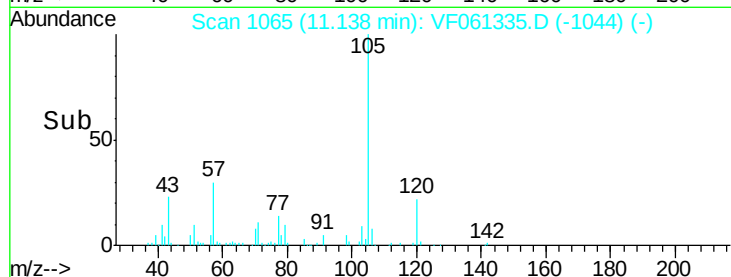
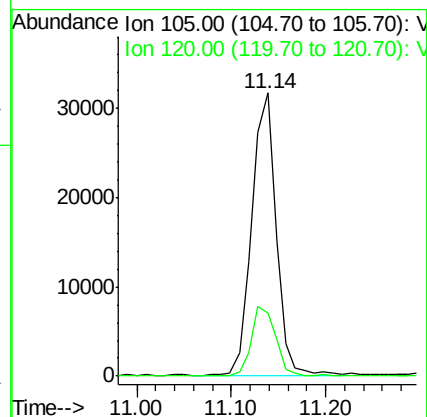
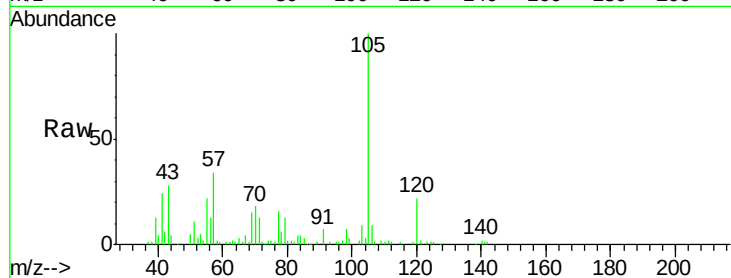
120 22.3 12.9 38.7

Manual Integrations

APPROVED

MMDadoda

1/10/2019 3:33:27 PM



#78

n-propylbenzene

Concen: 261.896 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF061335.D

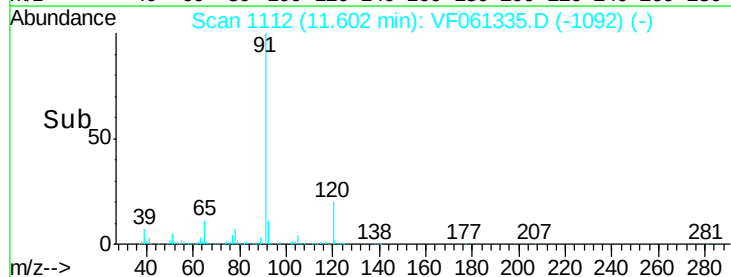
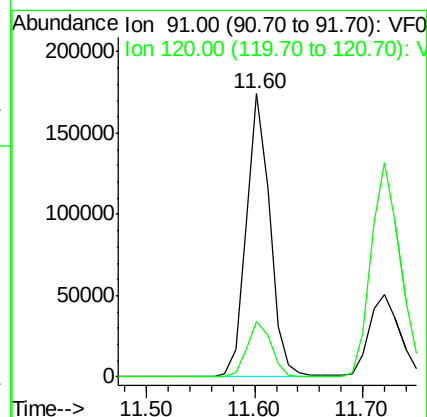
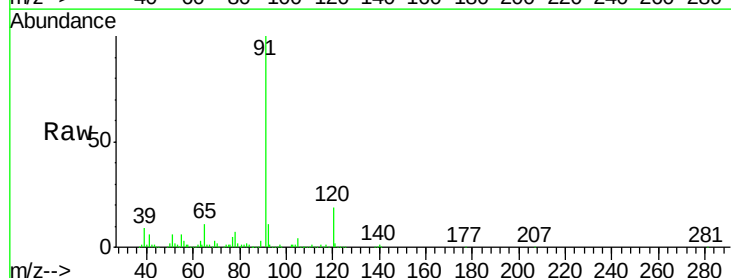
Acq: 10 Jan 2019 9:24

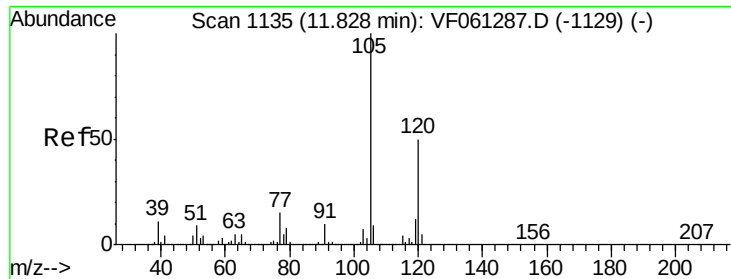
Tgt Ion: 91 Resp: 263038

Ion Ratio Lower Upper

91 100

120 19.5 10.7 32.1





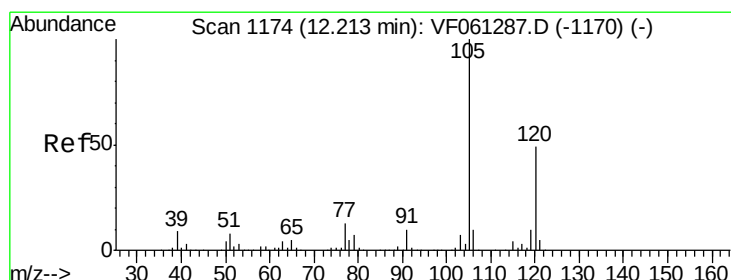
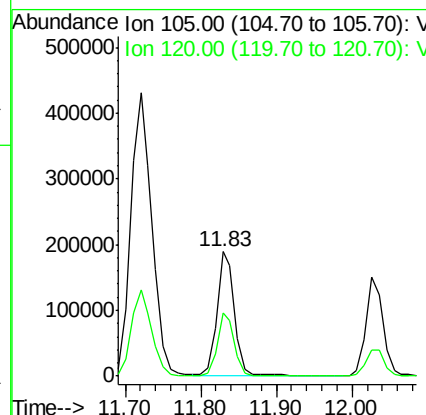
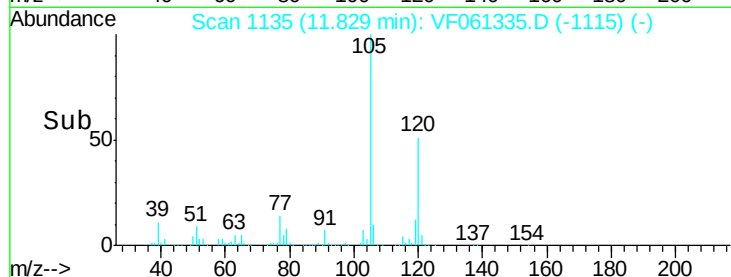
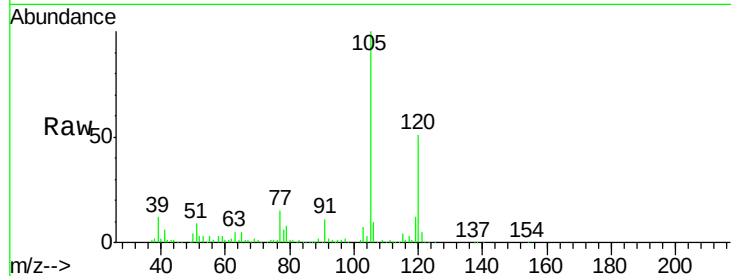
#80
 1,3,5-Trimethylbenzene
 Concen: 461.842 ug/l
 RT: 11.83 min Scan# 1135
 Delta R.T. 0.00 min
 Lab File: VF061335.D
 Acq: 10 Jan 2019 9:24

Instrument :
 MSVOA_F
 ClientSampled :
 TP-15

Tot Ion	Ratio	Lower	Upper
105	100		
120	51.3	25.2	75.6

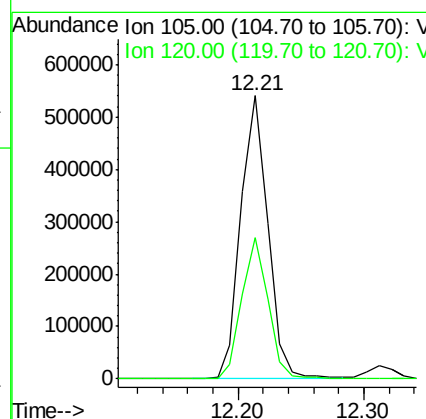
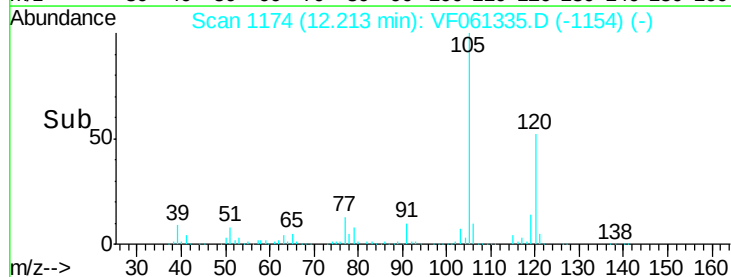
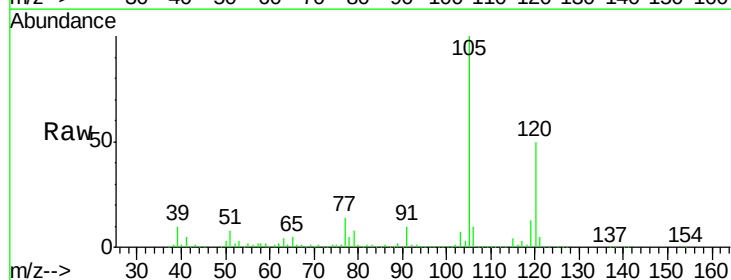
Manual Integrations
 APPROVED

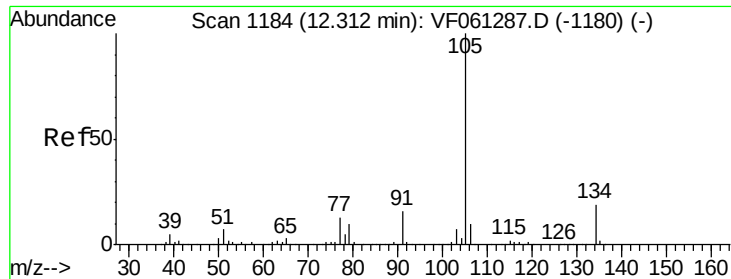
MMDadoda
 1/10/2019 3:33:27 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 1202.657 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VF061335.D
 Acq: 10 Jan 2019 9:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.0	24.7	74.1





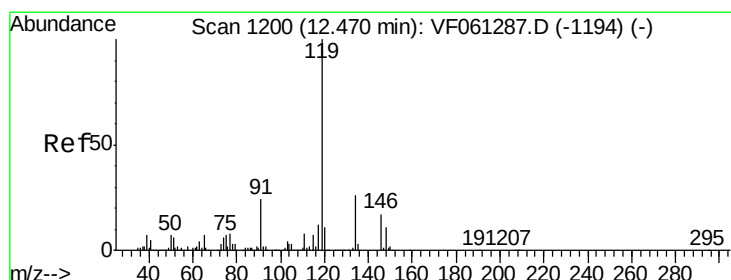
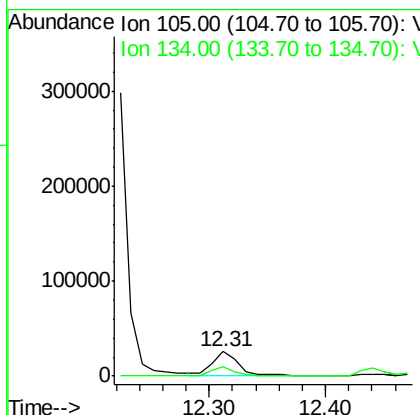
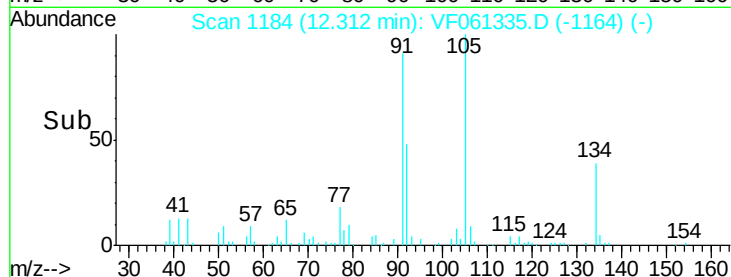
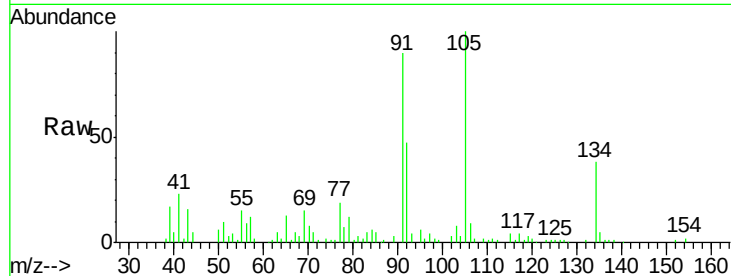
#85
 sec-Butylbenzene
 Concen: 38.230 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: VF061335.D
 Acq: 10 Jan 2019 9:24

Instrument :
 MSVOA_F
 ClientSampled :
 TP-15

Tot Ion:105 Resp: 36351
 Ion Ratio Lower Upper
 105 100
 134 37.8 9.7 28.9#

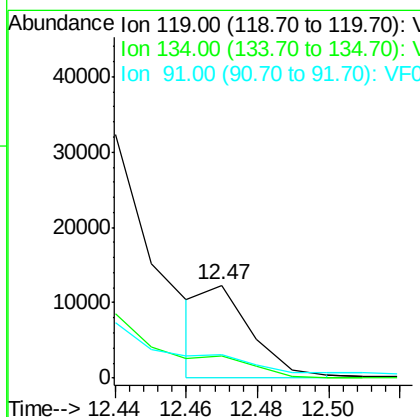
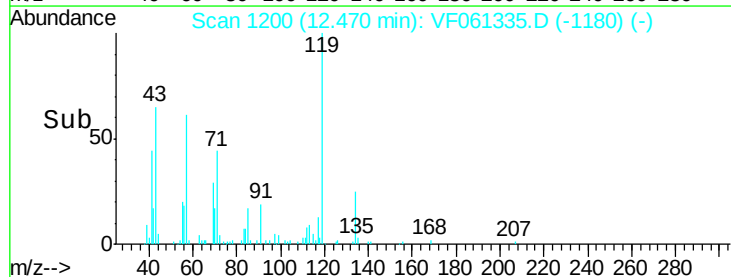
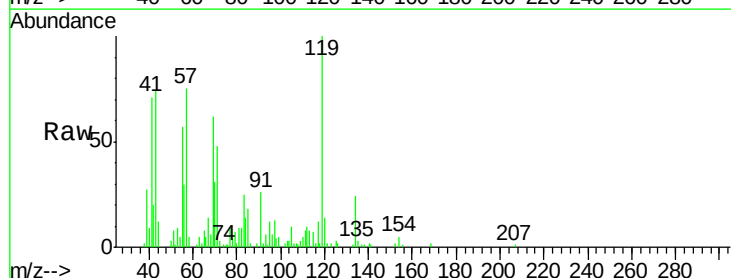
Manual Integrations
 APPROVED

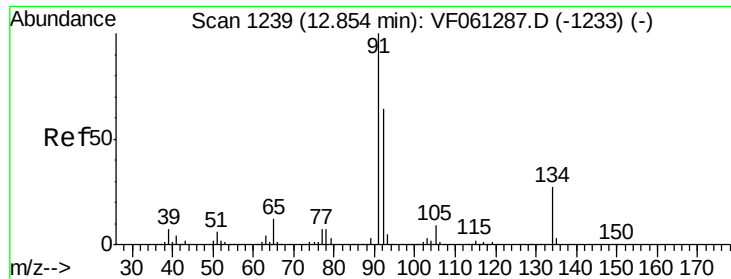
MMDadoda
 1/10/2019 3:33:27 PM



#86
 p-Isopropyltoluene
 Concen: 14.483 ug/l m
 RT: 12.47 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: VF061335.D
 Acq: 10 Jan 2019 9:24

Tgt Ion:119 Resp: 11201
 Ion Ratio Lower Upper
 119 100
 134 24.0 13.0 39.0
 91 25.8 12.2 36.4





#89

n-Butylbenzene

Concen: 133.789 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

Instrument :

MSVOA_F

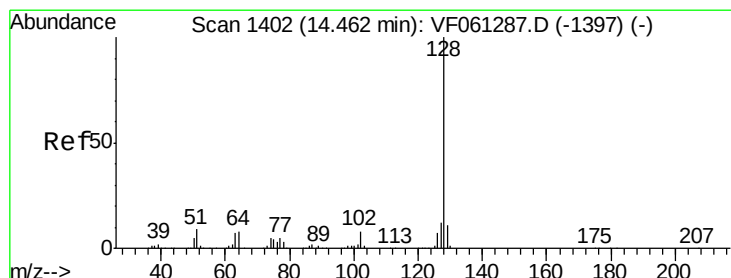
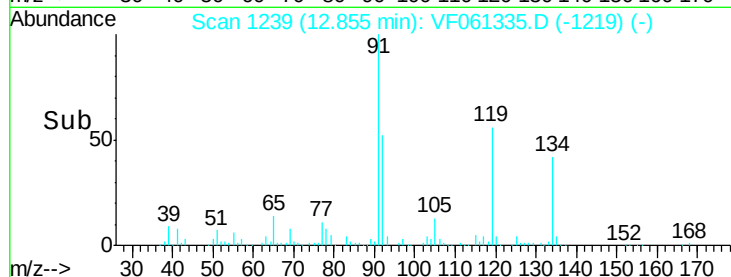
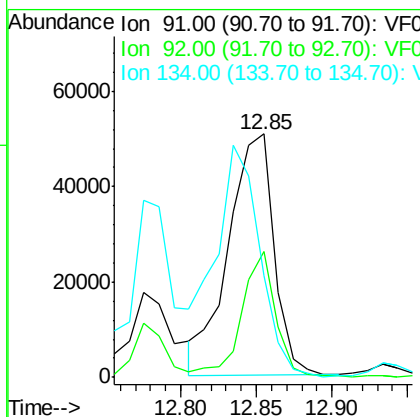
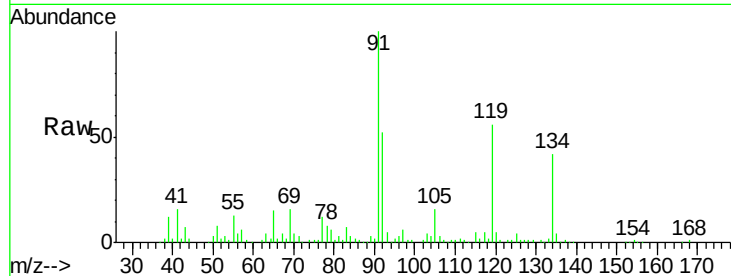
ClientSampled :

TP-15

Tot Ion:	91	Resp:	106316
Ion Ratio	Lower	Upper	
91	100		
92	51.7	32.1	96.3
134	41.6	13.4	40.1#

Manual Integrations
APPROVED

MMDadoda
1/10/2019 3:33:27 PM



#95

Naphthalene

Concen: 45.357 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VF061335.D

Acq: 10 Jan 2019 9:24

Tgt Ion:	128	Resp:	18374
Ion Ratio	Lower	Upper	
128	100		
127	16.2	9.4	14.0#
129	15.3	8.8	13.2#

