

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\
 Data File : VF059323.D
 Acq On : 26 Jun 2018 18:09
 Operator : VA/AP
 Sample : J3664-17RE
 Misc : 5.49g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP021SB485-29-31-180619RE

Manual Integrations
 APPROVED

apatel
 6/27/2018 5:48:22 PM

Quant Time: Jun 27 05:12:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	250164	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.74	114	421584	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.90	117	319247	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	156735	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	144993	44.86	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	89.72%	
35) Dibromofluoromethane	4.27	113	136363	44.27	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	88.54%	
50) Toluene-d8	7.69	98	313178	41.06	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	82.12%	
62) 4-Bromofluorobenzene	11.50	95	253093	58.83	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	117.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.32	43	89380	104.80	ug/l	97
17) Carbon Disulfide	1.83	76	17726	5.11	ug/l	95
20) Methylene Chloride	2.27	84	19481m	3.94	ug/l	
25) 2-Butanone	4.48	43	29902	28.15	ug/l	99
27) cis-1,2-Dichloroethene	3.61	96	11620	4.86	ug/l	69
30) Chloroform	4.01	83	6735	1.22	ug/l	94
31) Cyclohexane	3.83	56	9657	3.88	ug/l #	77
39) Methylcyclohexane	5.61	83	140140	42.94	ug/l	96
40) Benzene	4.79	78	14373	1.76	ug/l #	89
65) Chlorobenzene	9.92	112	845295	142.89	ug/l	100
73) Isopropylbenzene	11.22	105	77394	8.48	ug/l	99
83) tert-Butylbenzene	12.20	119	204625	25.58	ug/l	77
85) sec-Butylbenzene	12.38	105	1703980	160.69	ug/l #	60
88) 1,4-Dichlorobenzene	12.63	146	157513	34.82	ug/l #	80
89) n-Butylbenzene	12.91	91	1326100m	146.79	ug/l	
91) 1,2-Dichlorobenzene	13.01	146	74156	16.12	ug/l #	71

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

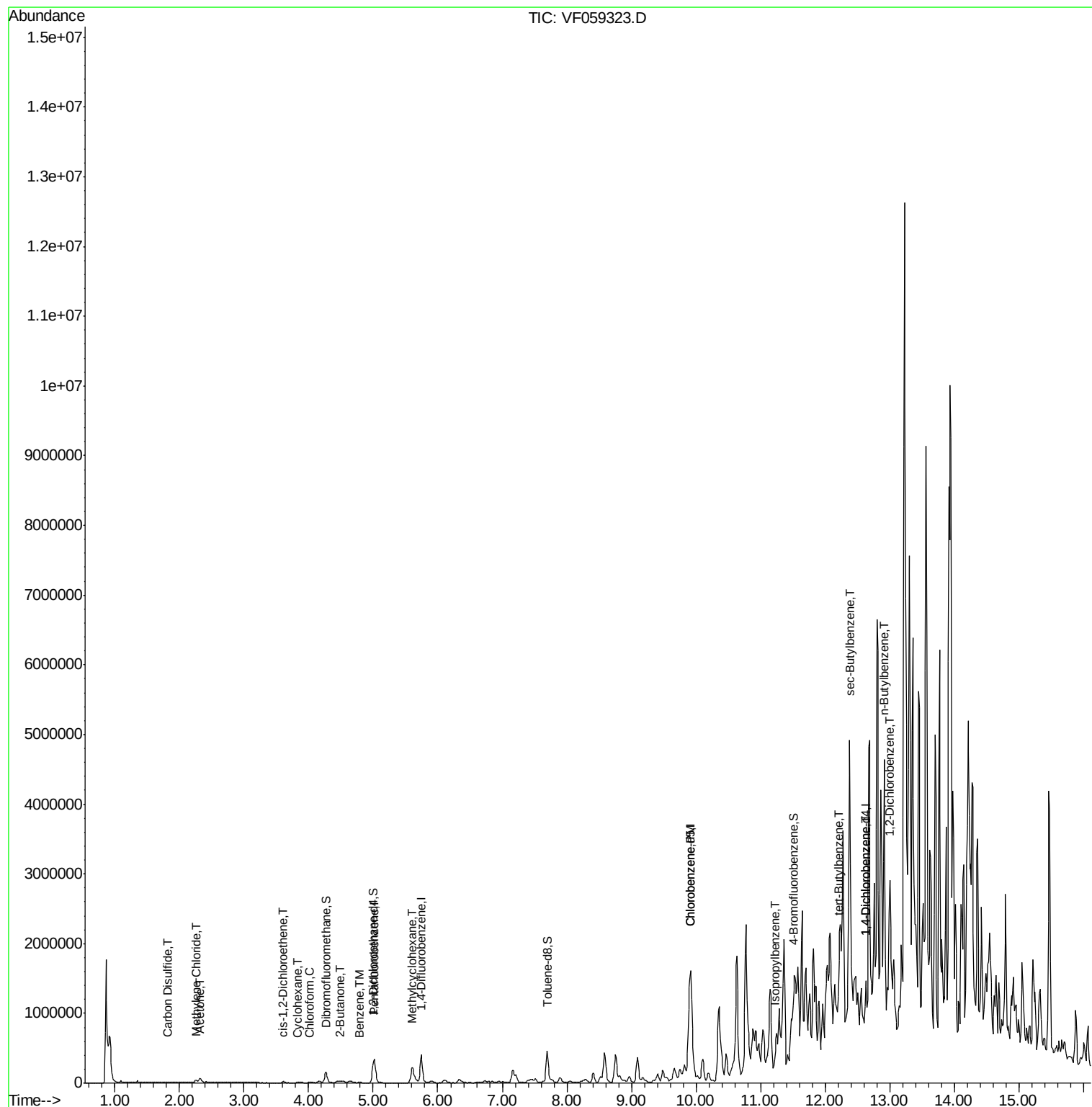
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF062618\
Data File : VF059323.D
Acq On : 26 Jun 2018 18:09
Operator : VA/AP
Sample : J3664-17RE
Misc : 5.49g/5mL/MSVOA-F/SOIL
ALS Vial : 15 Sample Multiplier: 1

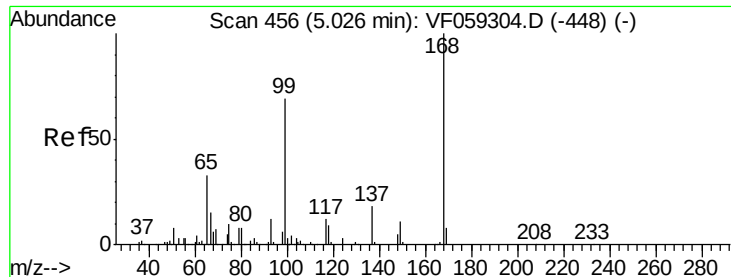
Instrument :
MSVOA_F
ClientSampleId :
WP021SB485-29-31-180619RE

Manual Integrations
APPROVED

apatel
6/27/2018 5:48:22 PM

Quant Time: Jun 27 05:12:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Instrument :

MSVOA_F

ClientSampleId :

WP021SB485-29-31-180619RE

Tot Ion:168 Resp: 250164

Ion Ratio Lower Upper

168 100

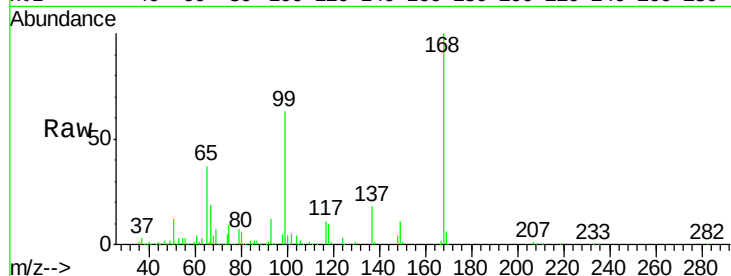
99 62.6 54.9 82.3

Manual Integrations

APPROVED

apatel

6/27/2018 5:48:22 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

60000

40000

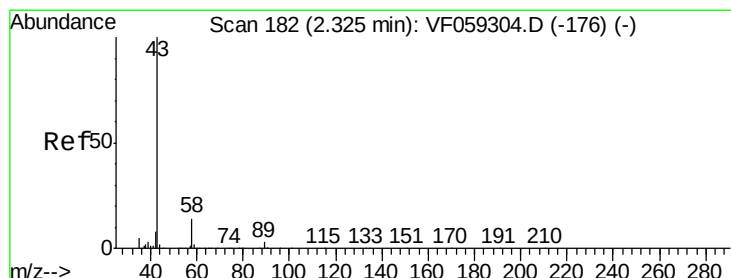
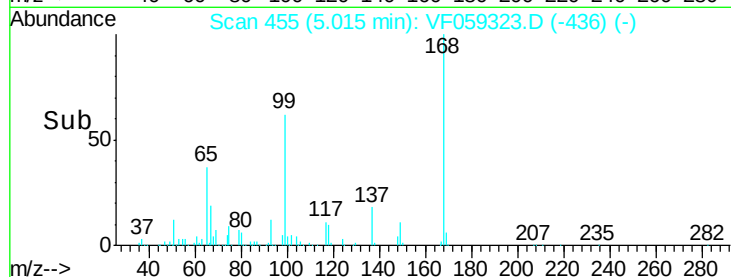
20000

0

Time-->

4.90 5.00 5.10 5.20

5.02



#16

Acetone

Concen: 104.80 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059323.D

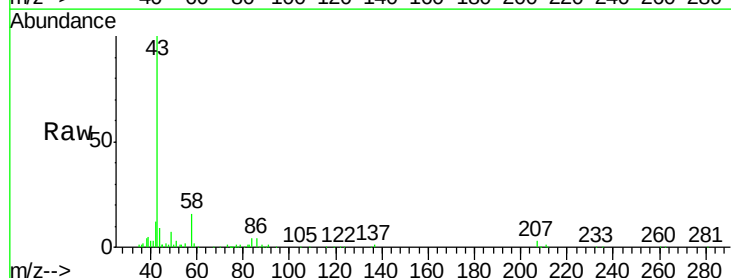
Acq: 26 Jun 2018 18:09

Tgt Ion: 43 Resp: 89380

Ion Ratio Lower Upper

43 100

58 15.6 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

30000

20000

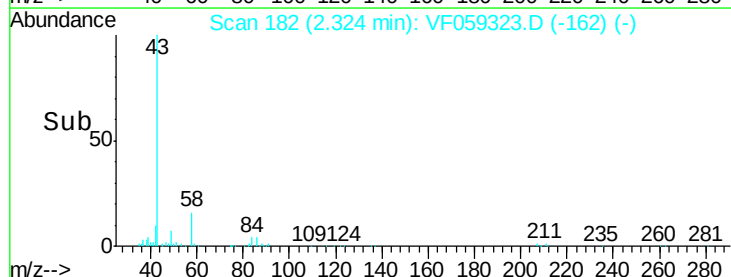
10000

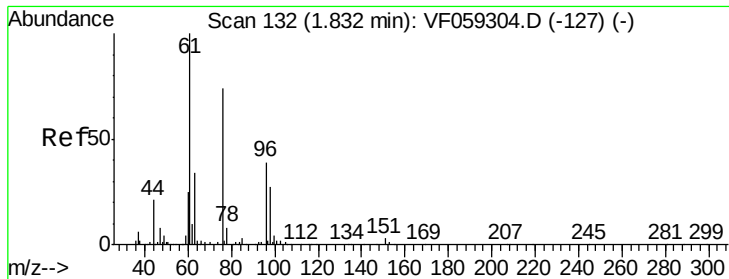
0

Time-->

2.20 2.30 2.40

2.32





#17

Carbon Disulfide

Concen: 5.11 ug/l

RT: 1.83 min Scan# 132

Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Instrument :

MSVOA_F

ClientSampleId :

WP021SB485-29-31-180619RE

Tot Ion: 76 Resp: 17726

Ion Ratio Lower Upper

76 100

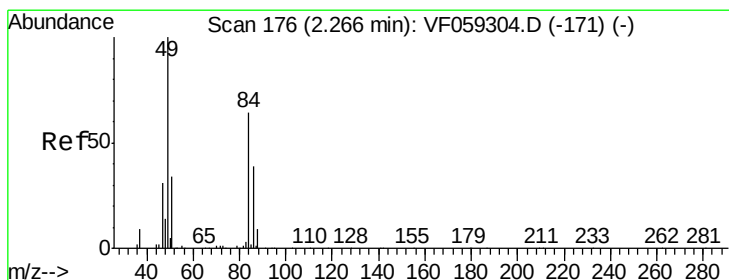
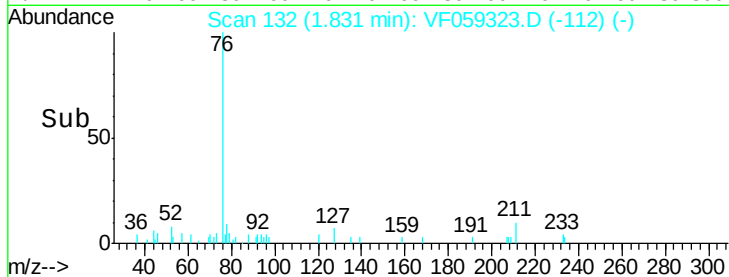
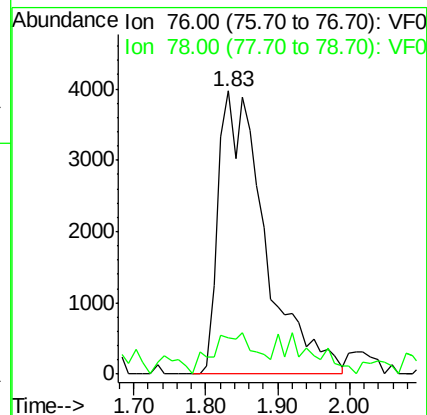
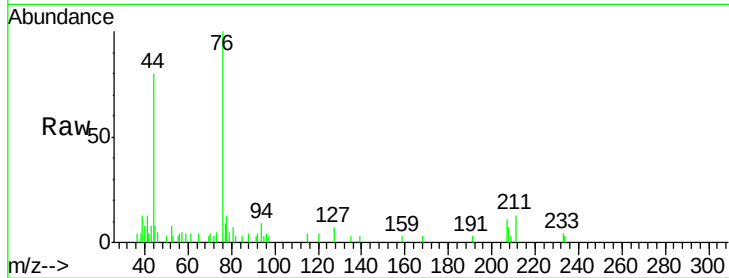
78 12.9 8.9 13.3

Manual Integrations

APPROVED

apatel

6/27/2018 5:48:22 PM



#20

Methylene Chloride

Concen: 3.94 ug/l m

RT: 2.27 min Scan# 176

Delta R.T. 0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Tgt Ion: 84 Resp: 19481

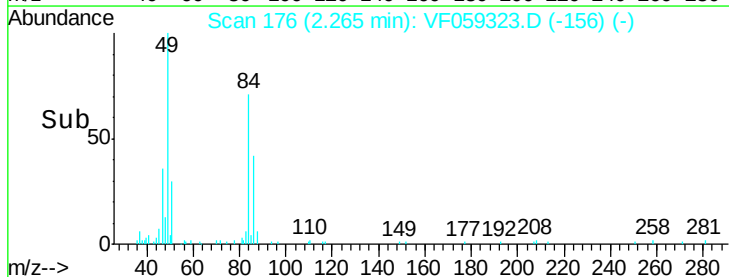
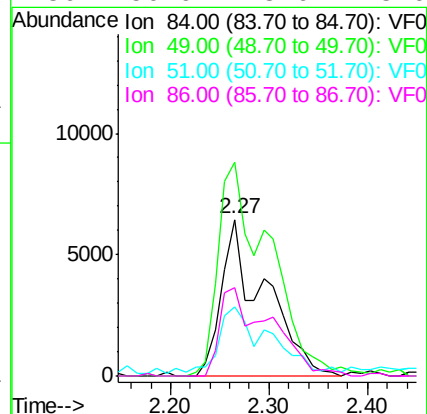
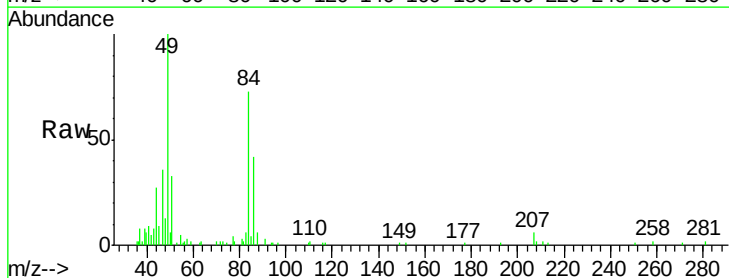
Ion Ratio Lower Upper

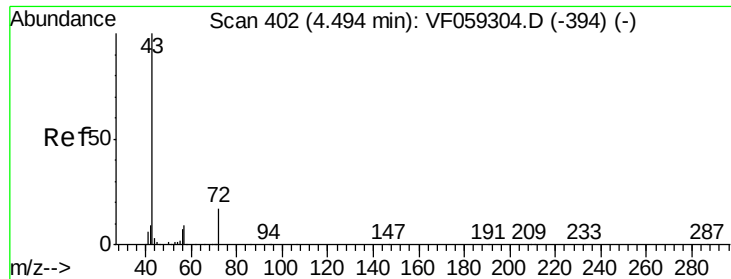
84 100

49 136.6 126.5 189.7

51 44.5 42.9 64.3

86 56.9 48.6 73.0





#25

2-Butanone

Concen: 28.15 ug/l

RT: 4.48 min Scan# 401

Delta R.T. -0.01 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Tot Ion:	43	Resp:	29902
Ion	Ratio	Lower	Upper
43	100		
72	17.4	14.4	21.6

Instrument :

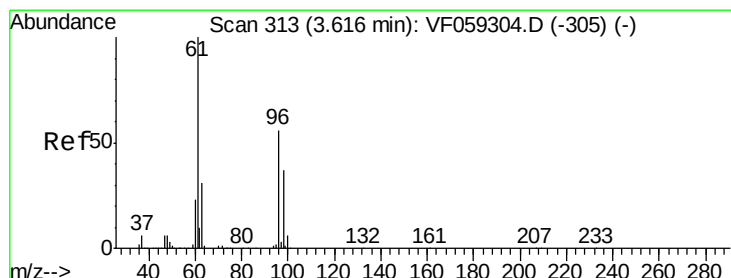
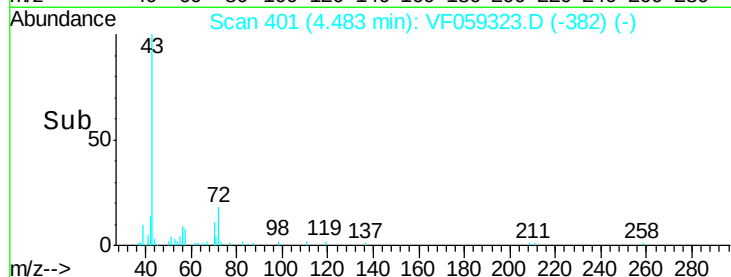
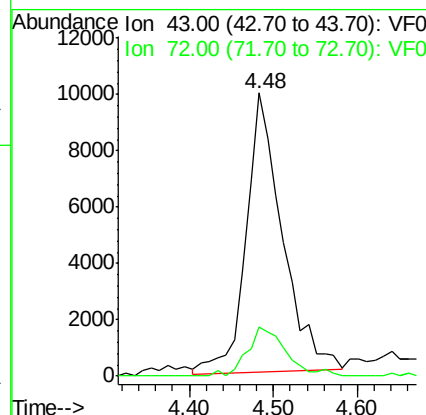
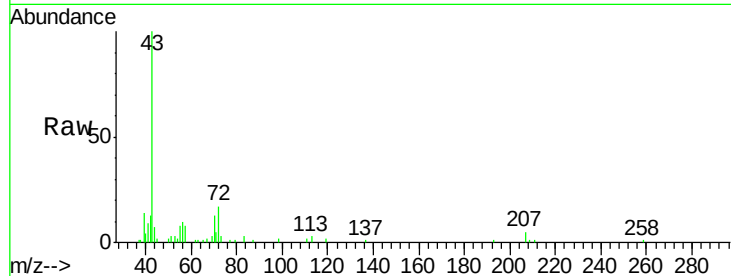
MSVOA_F

ClientSampleId :

WP021SB485-29-31-180619RE

Manual Integrations
APPROVED

apatel
6/27/2018 5:48:22 PM



#27

cis-1,2-Dichloroethene

Concen: 4.86 ug/l

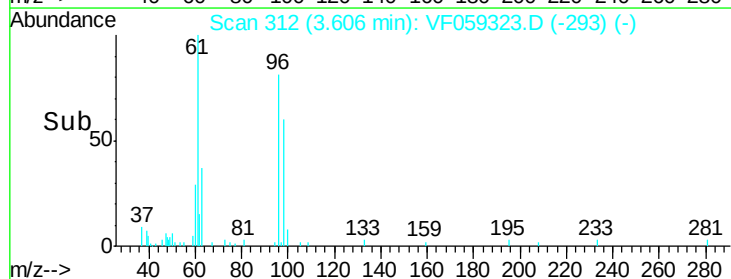
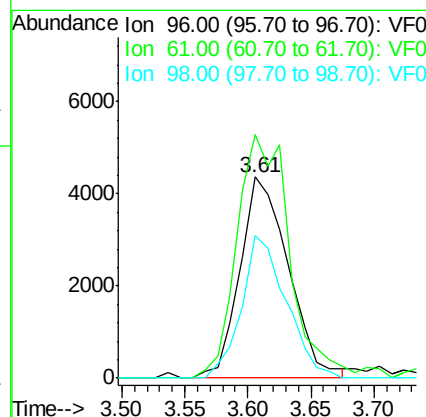
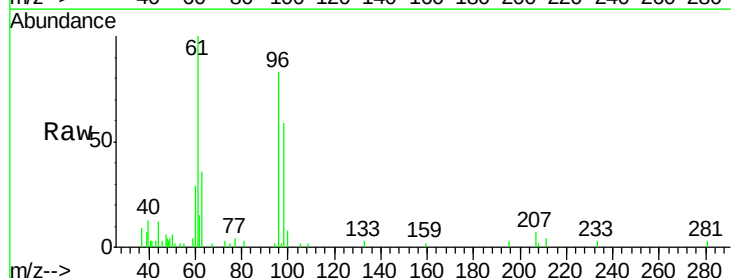
RT: 3.61 min Scan# 312

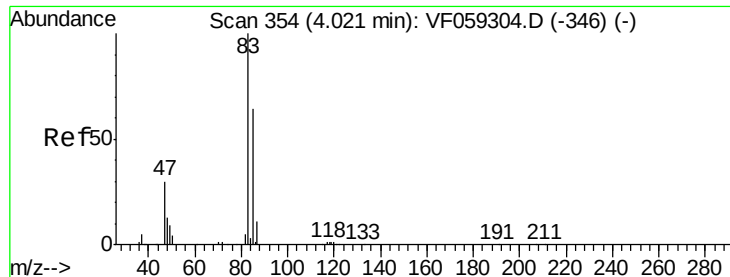
Delta R.T. -0.01 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Tgt Ion:	96	Resp:	11620
Ion	Ratio	Lower	Upper
96	100		
61	121.1	0.0	355.4
98	71.0	0.0	131.0





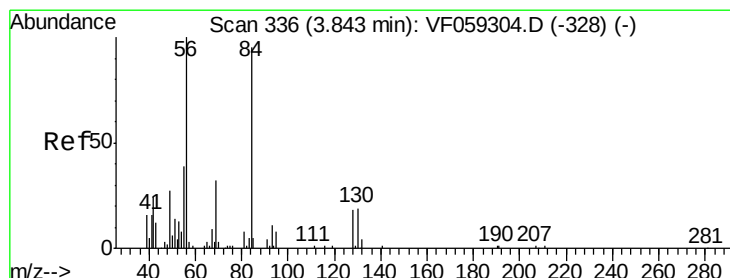
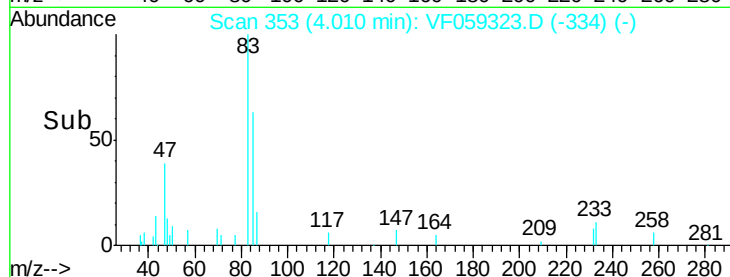
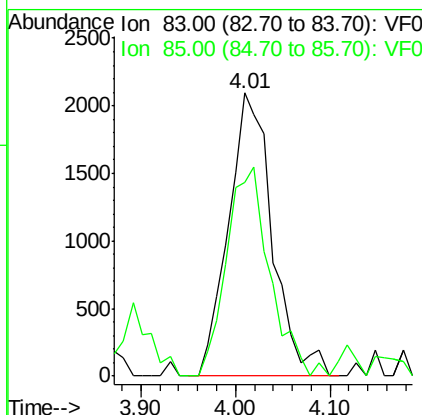
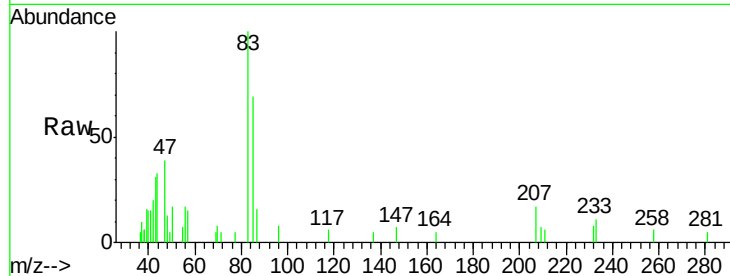
#30
Chloroform
Concen: 1.22 ug/l
RT: 4.01 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF059323.D
Acq: 26 Jun 2018 18:09

Instrument :
MSVOA_F
ClientSampleId :
WP021SB485-29-31-180619RE

Tot Ion	83	Resp	6735
Ion Ratio	100	Lower	Upper
85	68.5	51.3	76.9

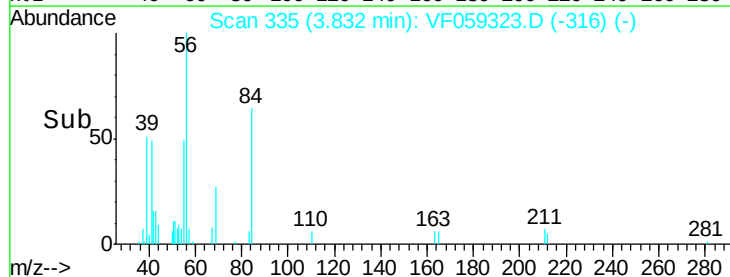
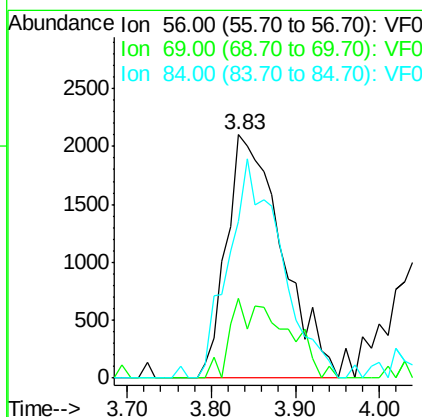
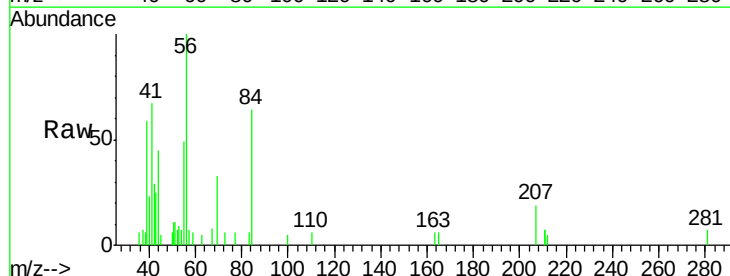
Manual Integrations
APPROVED

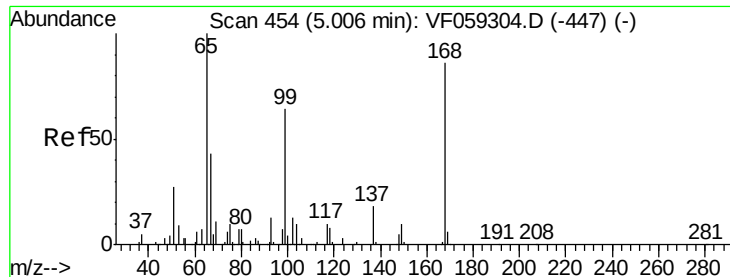
apatel
6/27/2018 5:48:22 PM



#31
Cyclohexane
Concen: 3.88 ug/l
RT: 3.83 min Scan# 335
Delta R.T. -0.01 min
Lab File: VF059323.D
Acq: 26 Jun 2018 18:09

Tgt Ion	56	Resp	9657
Ion Ratio	100	Lower	Upper
69	32.7	25.8	38.8
84	64.4	75.6	113.4





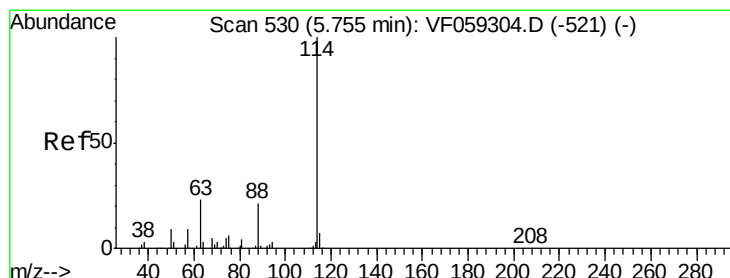
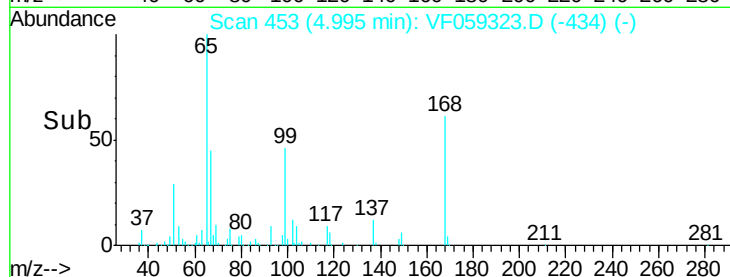
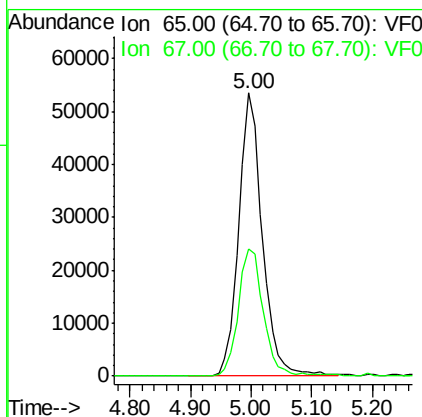
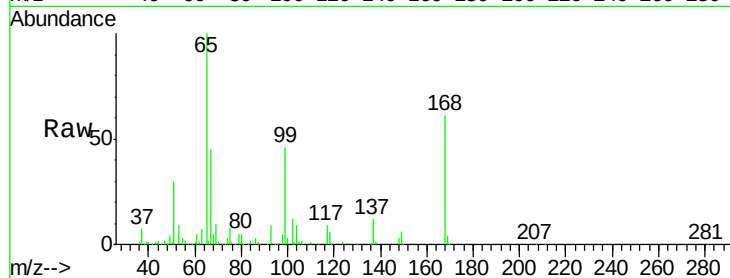
#33
 1,2-Dichloroethane-d4
 Concen: 44.86 ug/l
 RT: 5.00 min Scan# 453
 Delta R.T. -0.01 min
 Lab File: VF059323.D
 Acq: 26 Jun 2018 18:09

Instrument :
 MSVOA_F
 ClientSampleId :
 WP021SB485-29-31-180619RE

Tot Ion	Ratio	Resp	Lower	Upper
65	100	144993		
67	45.0	0.0	96.8	

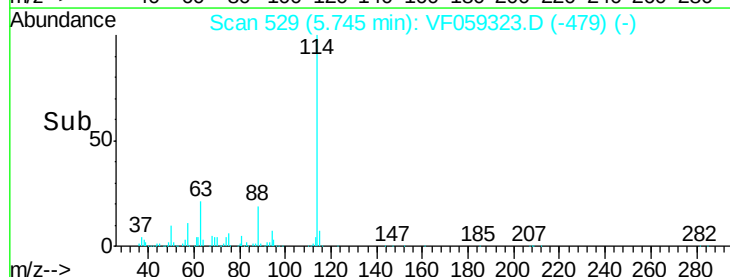
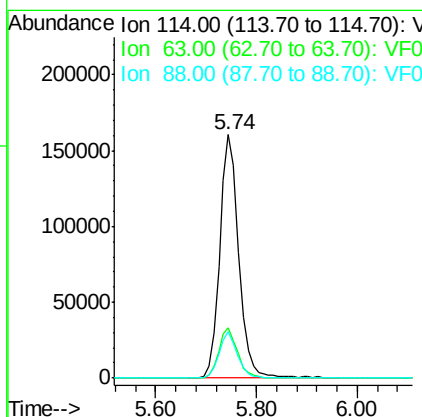
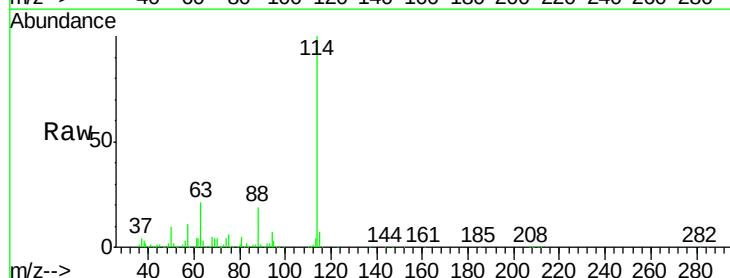
Manual Integrations
 APPROVED

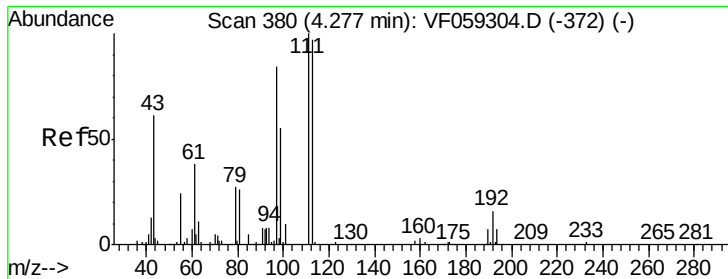
apatel
 6/27/2018 5:48:22 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.74 min Scan# 529
 Delta R.T. -0.01 min
 Lab File: VF059323.D
 Acq: 26 Jun 2018 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	421584		
63	20.7	0.0	45.8	
88	19.3	0.0	41.2	





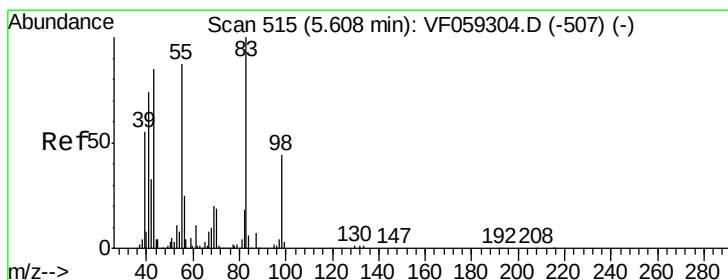
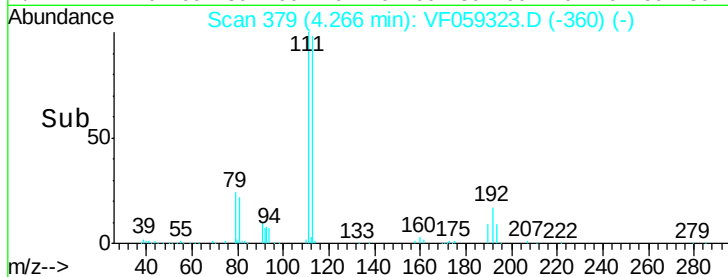
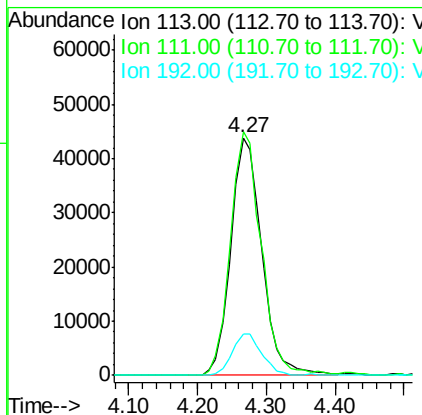
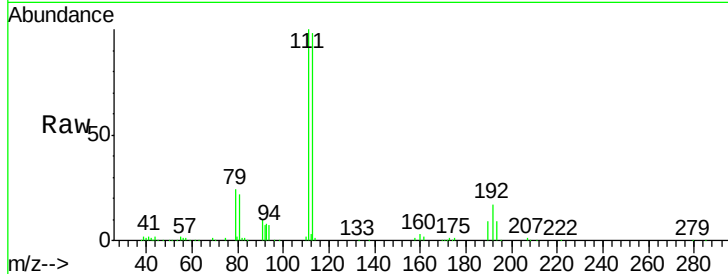
#35
Dibromofluoromethane
Concen: 44.27 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF059323.D
Acq: 26 Jun 2018 18:09

Instrument :
MSVOA_F
ClientSampleId :
WP021SB485-29-31-180619RE

Tot Ion	Ratio	Resp	Lower	Upper
113	100	136363		
111	102.5	82.1	123.1	
192	17.3	13.0	19.6	

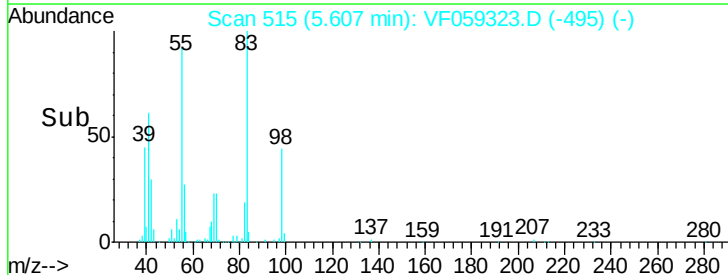
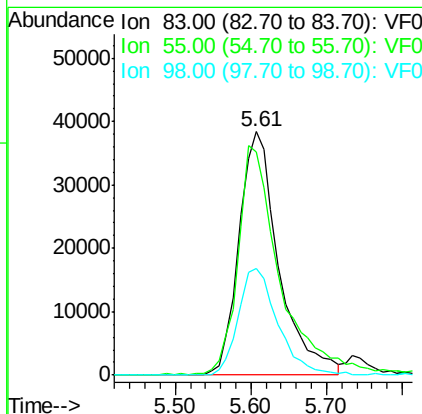
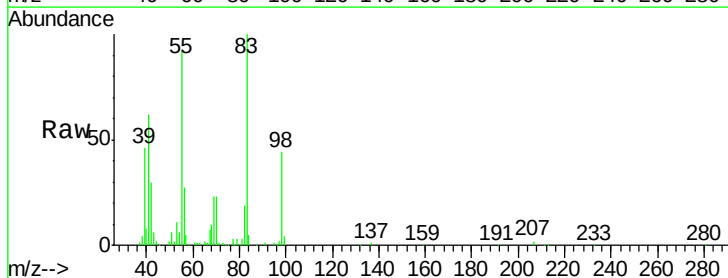
Manual Integrations
APPROVED

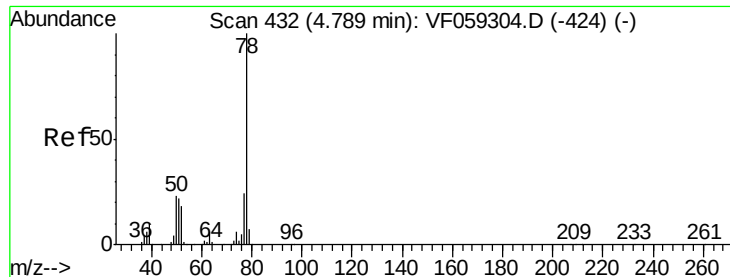
apatel
6/27/2018 5:48:22 PM



#39
Methylcyclohexane
Concen: 42.94 ug/l
RT: 5.61 min Scan# 515
Delta R.T. -0.00 min
Lab File: VF059323.D
Acq: 26 Jun 2018 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	140140		
55	91.6	69.2	103.8	
98	43.9	35.0	52.6	





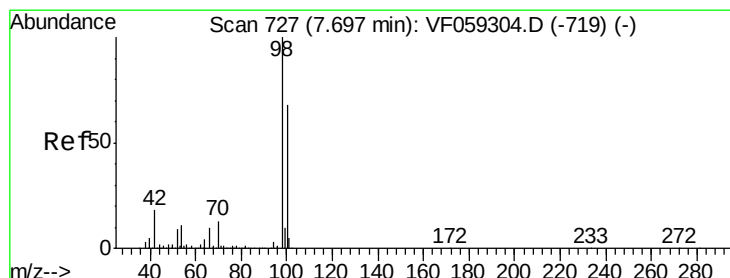
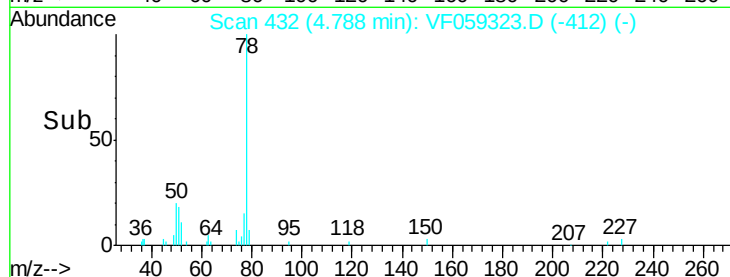
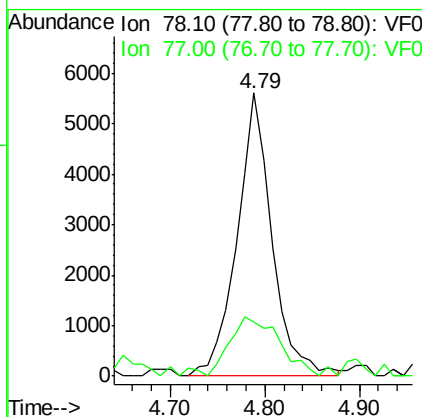
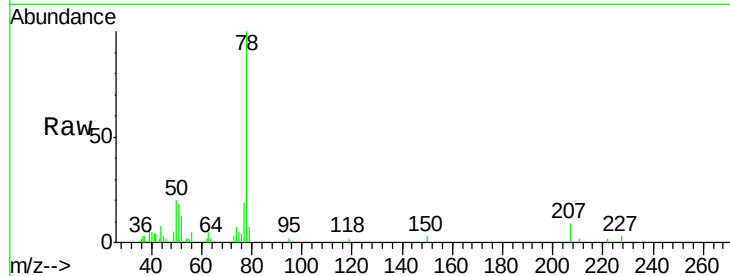
#40
Benzene
Concen: 1.76 ug/l
RT: 4.79 min Scan# 432
Delta R.T. -0.00 min
Lab File: VF059323.D
Acq: 26 Jun 2018 18:09

Instrument :
MSVOA_F
ClientSampleId :
WP021SB485-29-31-180619RE

Tot Ion	Ion	Ratio	Lower	Upper
78	100			
77	19.2	19.6	29.4	

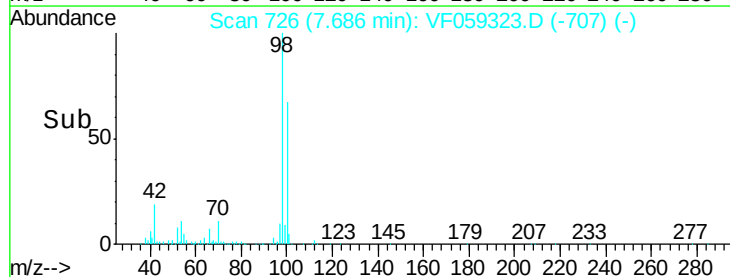
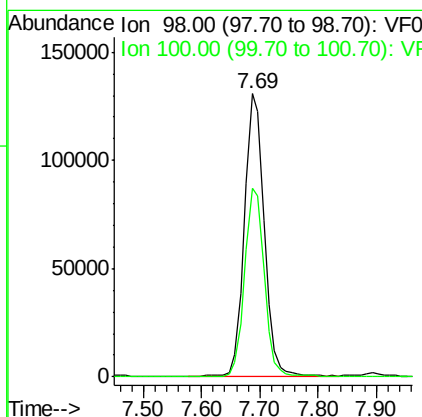
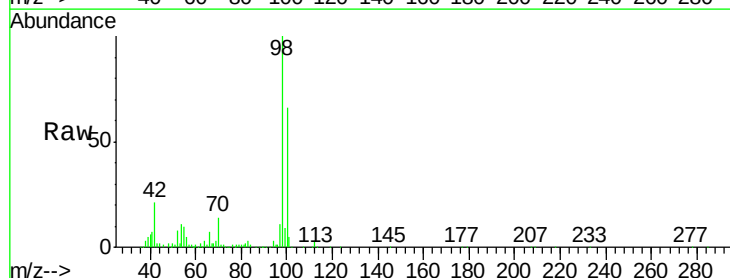
Manual Integrations
APPROVED

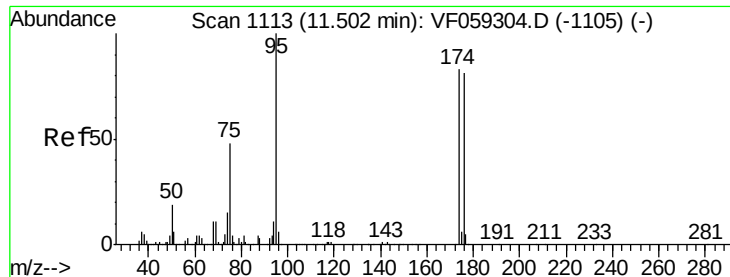
apatel
6/27/2018 5:48:22 PM



#50
Toluene-d8
Concen: 41.06 ug/l
RT: 7.69 min Scan# 726
Delta R.T. -0.01 min
Lab File: VF059323.D
Acq: 26 Jun 2018 18:09

Tgt Ion	Ion	Ratio	Lower	Upper
98	100			
100	66.5	54.6	82.0	





#62

4-Bromofluorobenzene

Concen: 58.83 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Instrument :

MSVOA_F

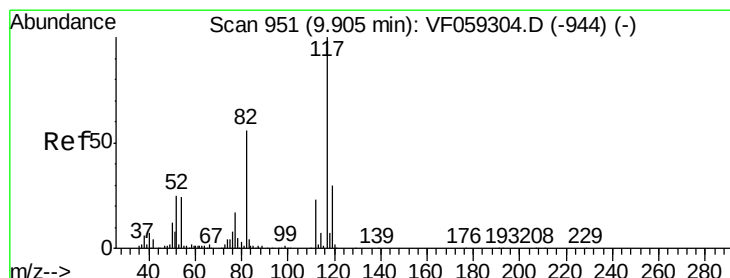
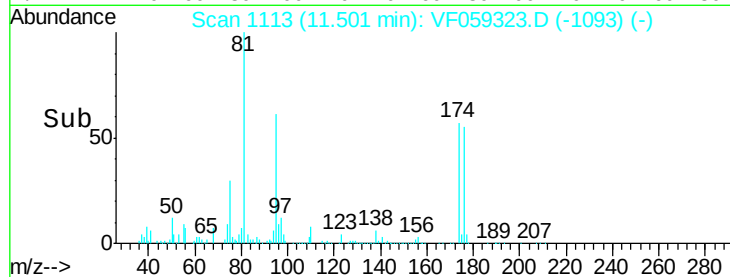
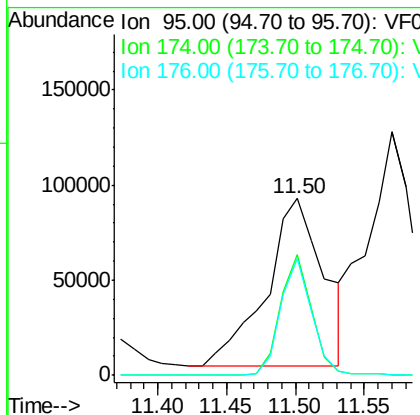
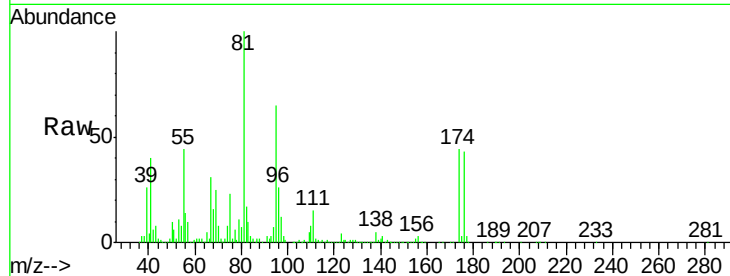
ClientSampleId :

WP021SB485-29-31-180619RE

Tot Ion:	95	Resp:	253093
Ion Ratio	Lower	Upper	
95	100		
174	68.0	0.0	165.2
176	66.0	0.0	161.0

Manual Integrations
APPROVED

apatel
6/27/2018 5:48:22 PM



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

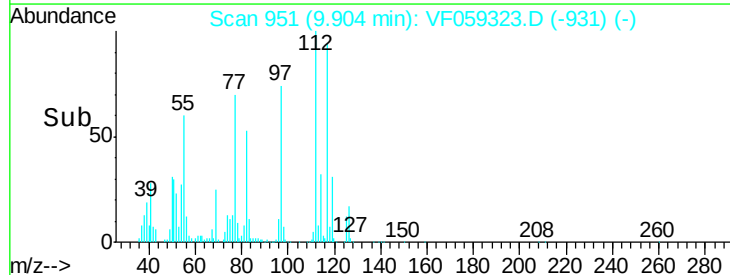
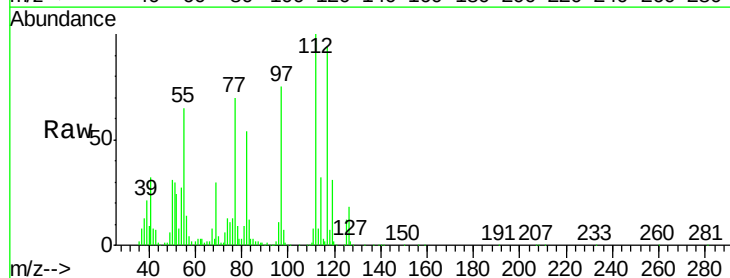
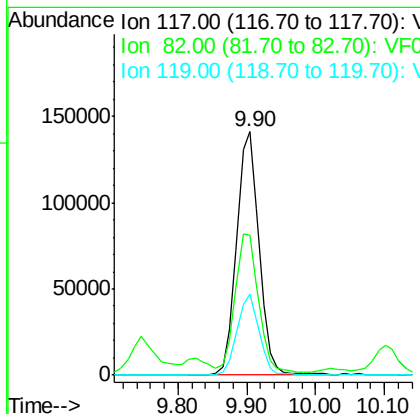
RT: 9.90 min Scan# 951

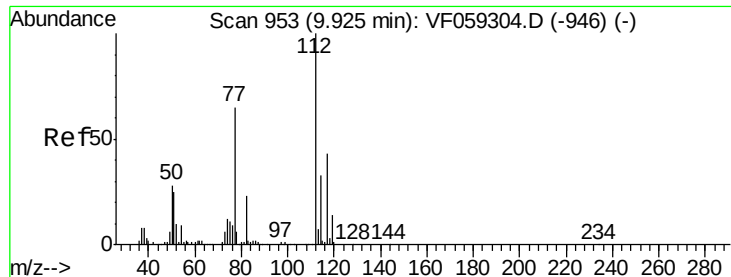
Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Tgt Ion:	117	Resp:	319247
Ion Ratio	Lower	Upper	
117	100		
82	57.3	44.6	66.8
119	33.2	24.1	36.1





#65

Chlorobenzene

Concen: 142.89 ug/l

RT: 9.92 min Scan# 953

Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Instrument :

MSVOA_F

ClientSampleId :

WP021SB485-29-31-180619RE

Tot Ion:112 Resp: 845295

Ion Ratio Lower Upper

112 100

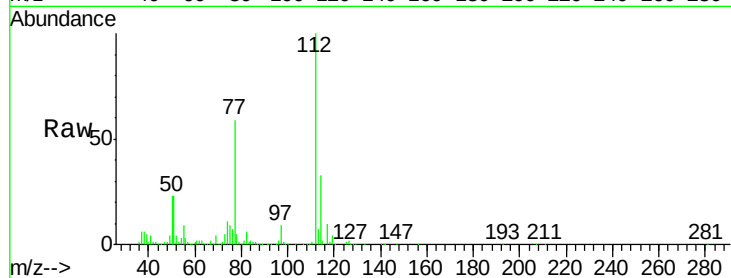
114 33.2 26.5 39.7

Manual Integrations

APPROVED

apatel

6/27/2018 5:48:22 PM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

9.92

400000

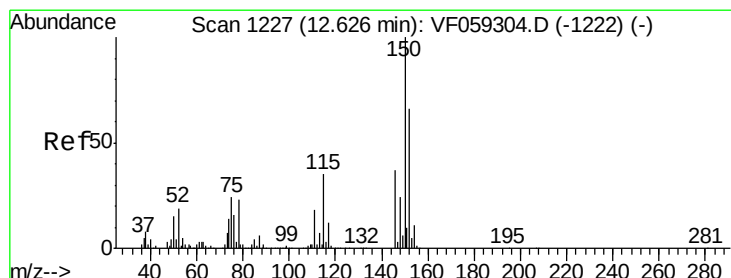
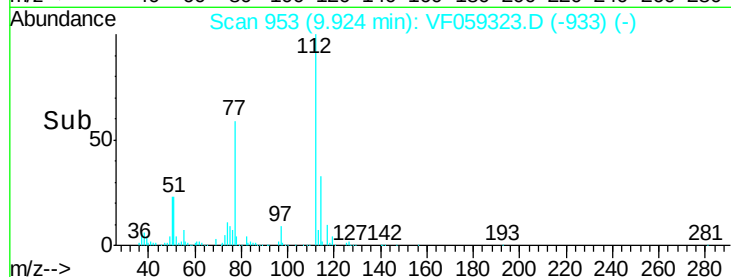
300000

200000

100000

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

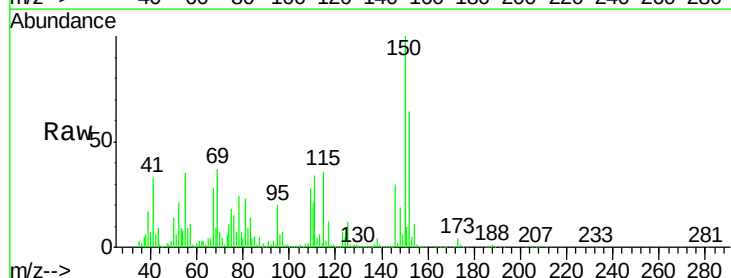
Tgt Ion:152 Resp: 156735

Ion Ratio Lower Upper

152 100

115 56.5 27.1 81.3

150 155.1 0.0 305.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

12.62

200000

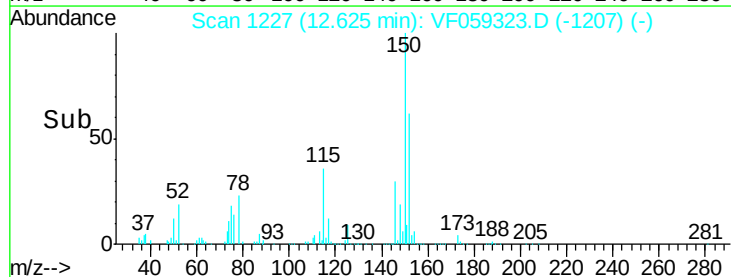
150000

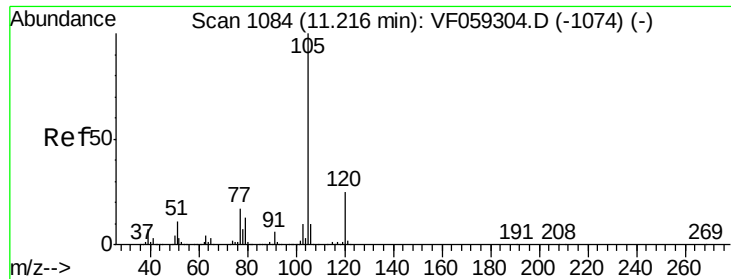
100000

50000

0

Time-->





#73

Isopropylbenzene

Concen: 8.48 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Instrument :

MSVOA_F

ClientSampleId :

WP021SB485-29-31-180619RE

Tot Ion:105 Resp: 77394

Ion Ratio Lower Upper

105 100

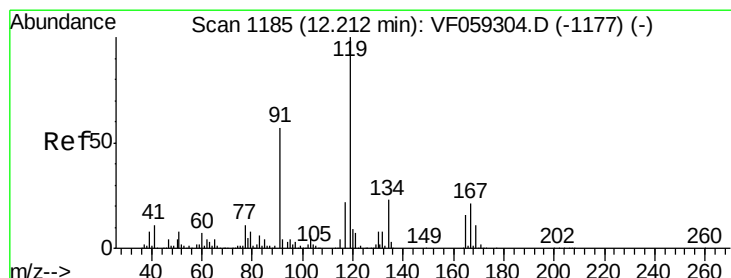
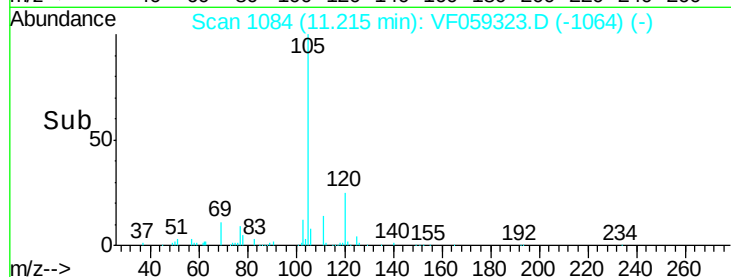
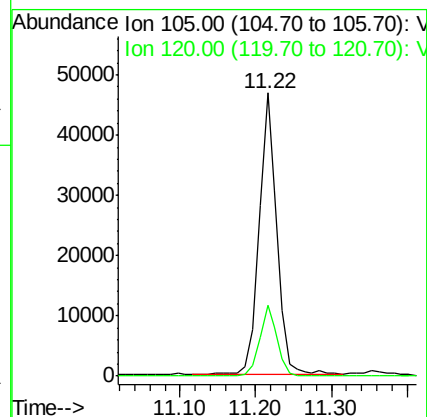
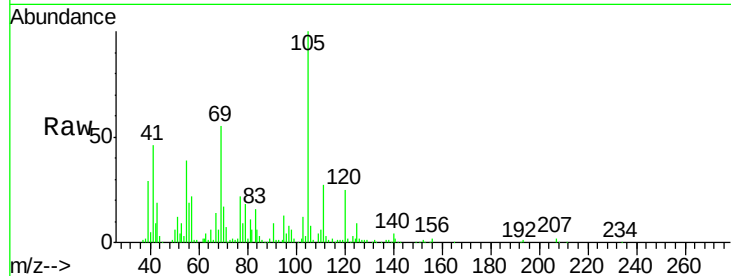
120 24.9 12.3 36.8

Manual Integrations

APPROVED

apatel

6/27/2018 5:48:22 PM



#83

tert-Butylbenzene

Concen: 25.58 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

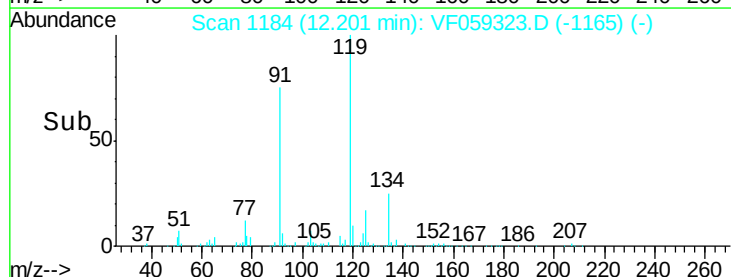
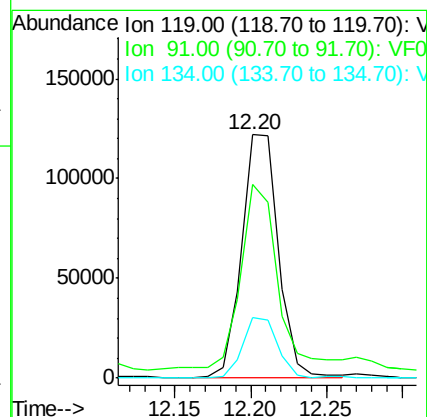
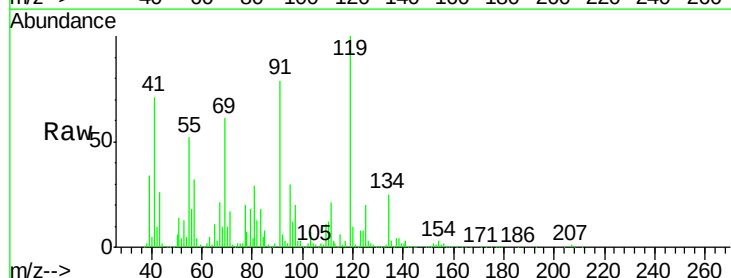
Tgt Ion:119 Resp: 204625

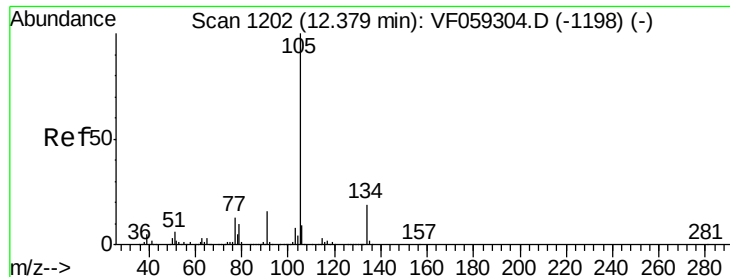
Ion Ratio Lower Upper

119 100

91 79.4 28.4 85.2

134 25.0 11.7 35.1





#85

sec-Butylbenzene

Concen: 160.69 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Instrument :

MSVOA_F

ClientSampleId :

WP021SB485-29-31-180619RE

Tot Ion:105 Resp: 1703980

Ion Ratio Lower Upper

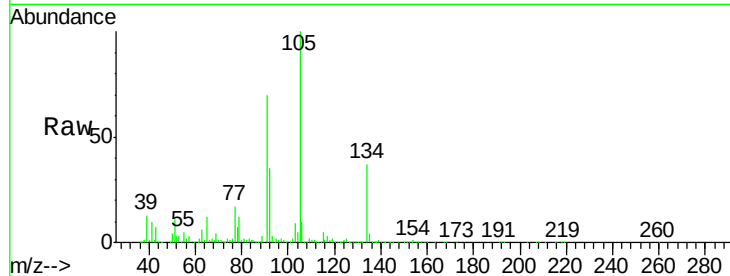
105 100

134 37.1 9.4 28.3#

Manual Integrations
APPROVED

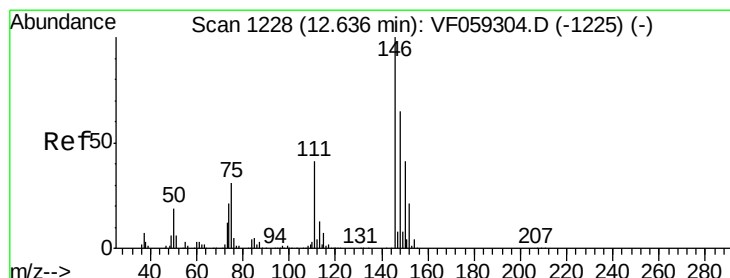
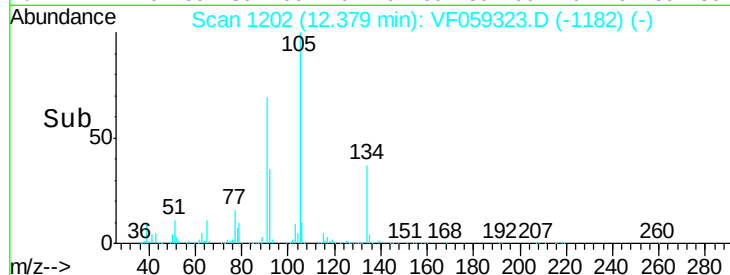
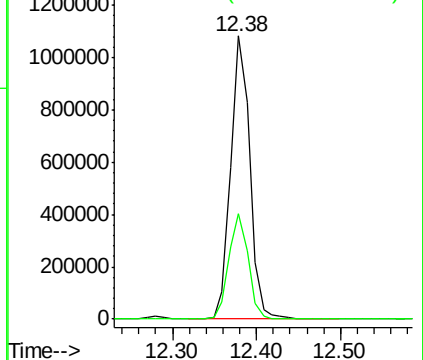
apatel

6/27/2018 5:48:22 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#88

1,4-Dichlorobenzene

Concen: 34.82 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

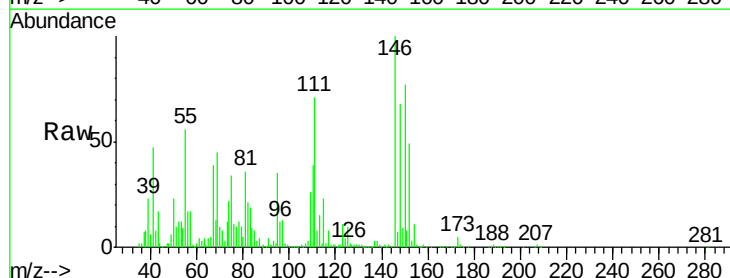
Tgt Ion:146 Resp: 157513

Ion Ratio Lower Upper

146 100

111 71.0 20.7 62.1#

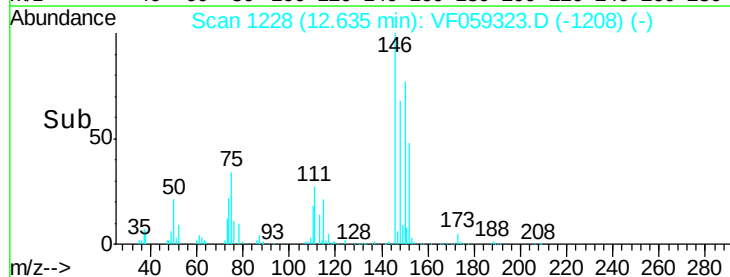
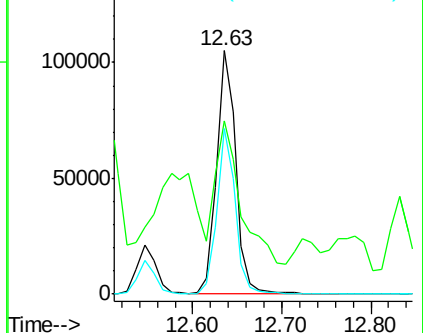
148 68.0 32.8 98.3

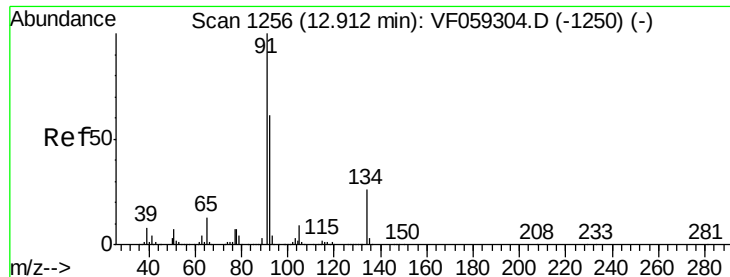


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 146.79 ug/l m

RT: 12.91 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Instrument :

MSVOA_F

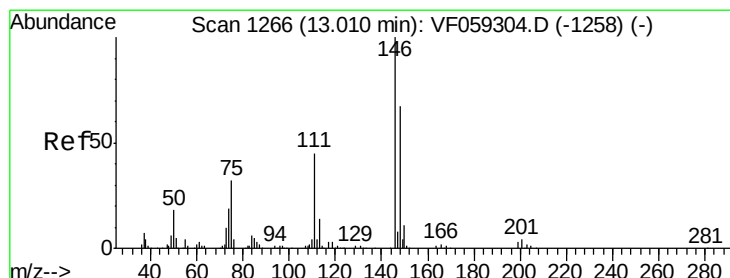
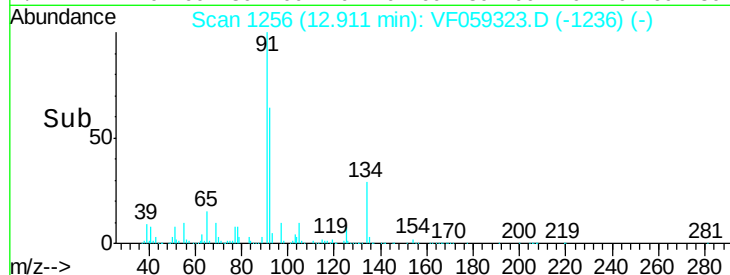
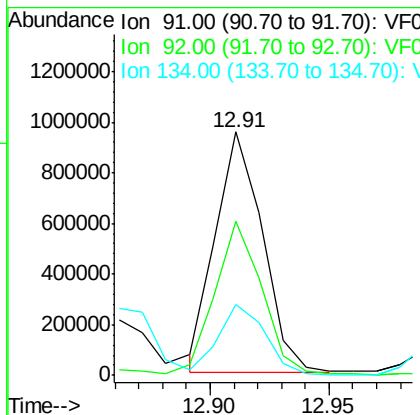
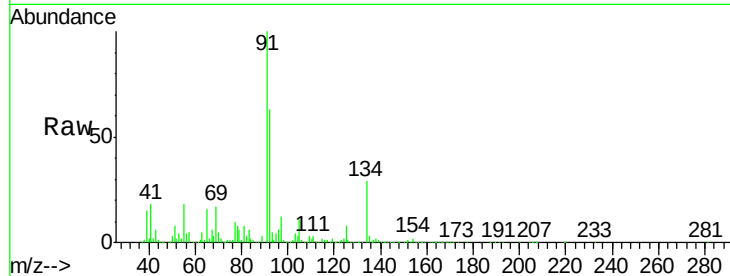
ClientSampleId :

WP021SB485-29-31-180619RE

Tot Ion:	91	Resp:	1326100
Ion	Ratio	Lower	Upper
91	100		
92	63.1	30.3	91.0
134	28.9	12.9	38.7

Manual Integrations
APPROVED

apatel
6/27/2018 5:48:22 PM



#91

1,2-Dichlorobenzene

Concen: 16.12 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VF059323.D

Acq: 26 Jun 2018 18:09

Tgt Ion:	146	Resp:	74156
Ion	Ratio	Lower	Upper
146	100		
111	88.5	22.7	68.0#
148	69.8	33.5	100.4

