

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062557.D
 Acq On : 13 May 2019 22:27
 Operator : FY/SY
 Sample : K2642-03
 Misc : 5.76g/5mL/MSVOA F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-050919

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 11:21:32 AM

Quant Time: May 14 08:10:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	210951	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	323667	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	169039	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	49772	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.05	65	102485	51.41	ug/l	0.03
Spiked Amount 50.000			Recovery	=	102.82%	
35) Dibromofluoromethane	4.33	113	112545	43.65	ug/l	0.03
Spiked Amount 50.000			Recovery	=	87.30%	
50) Toluene-d8	7.73	98	164410	26.34	ug/l	0.03
Spiked Amount 50.000			Recovery	=	52.68%	
62) 4-Bromofluorobenzene	11.51	95	42717	15.17	ug/l	0.02
Spiked Amount 50.000			Recovery	=	30.34%	
Target Compounds						
					Qvalue	
20) Methylene Chloride	2.31	84	11873m	8.137	ug/l	
40) Benzene	4.84	78	87113	14.228	ug/l	96
52) Toluene	7.80	92	92608	24.518	ug/l	97
67) Ethyl Benzene	10.05	91	18607	3.799	ug/l	99
68) m/p-Xylenes	10.27	106	51073	28.264	ug/l	99
69) o-Xylene	10.83	106	43809	22.436	ug/l	97
70) Styrene	10.91	104	43544	14.880	ug/l	100
73) Isopropylbenzene	11.23	105	10431	3.535	ug/l	89
78) n-propylbenzene	11.68	91	13515	4.302	ug/l	98
80) 1,3,5-Trimethylbenzene	11.91	105	114113	44.123	ug/l	90
84) 1,2,4-Trimethylbenzene	12.28	105	342295	135.245	ug/l	99
85) sec-Butylbenzene	12.37	105	12232	3.697	ug/l	93
86) p-Isopropyltoluene	12.53	119	11927m	3.880	ug/l	
95) Naphthalene	14.50	128	2444853	1324.407	ug/l #	97

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

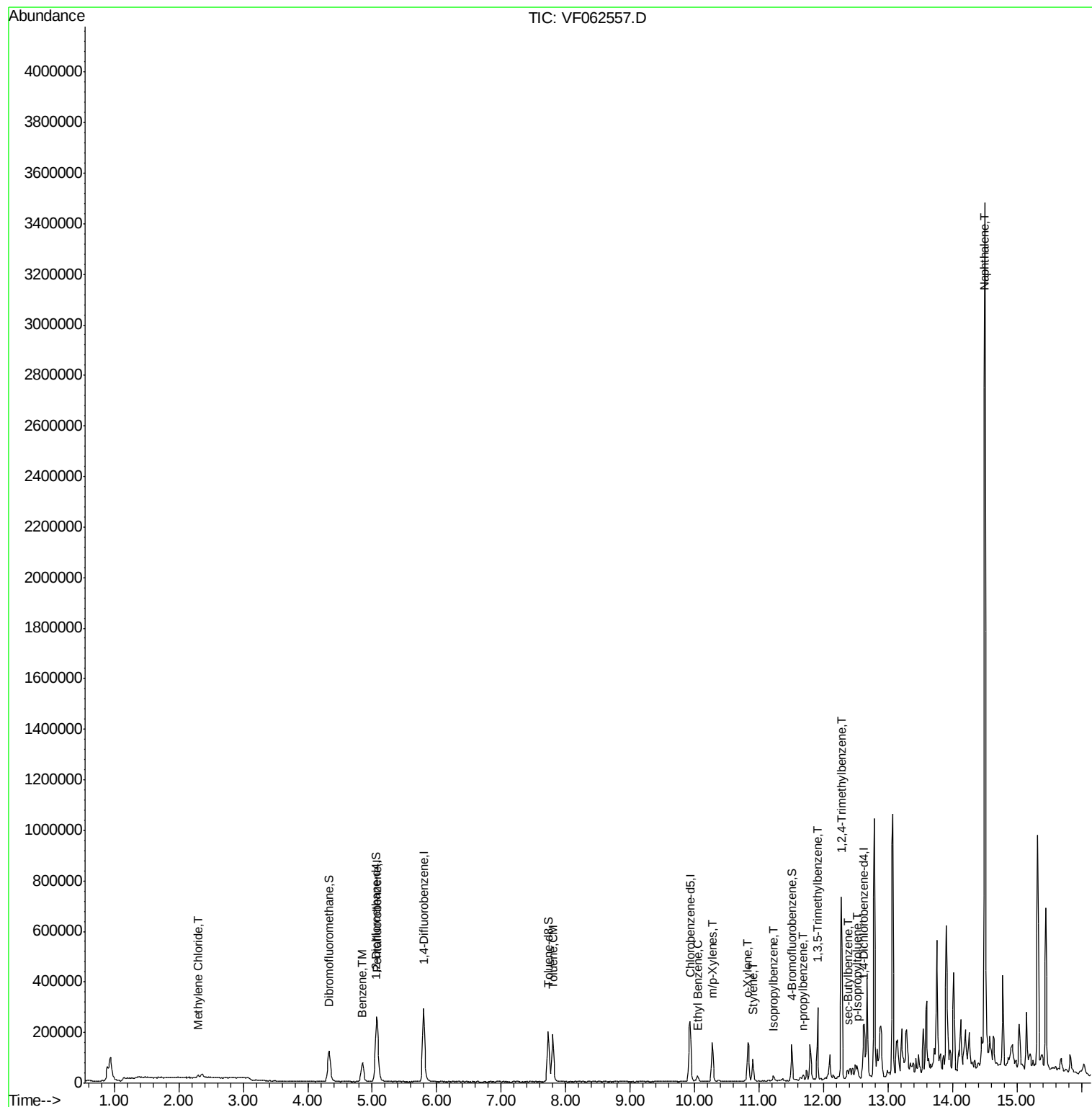
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051319\
Data File : VF062557.D
Acq On : 13 May 2019 22:27
Operator : FY/SY
Sample : K2642-03
Misc : 5.76g/5mL/MSVOA F/SOIL
ALS Vial : 21 Sample Multiplier: 1

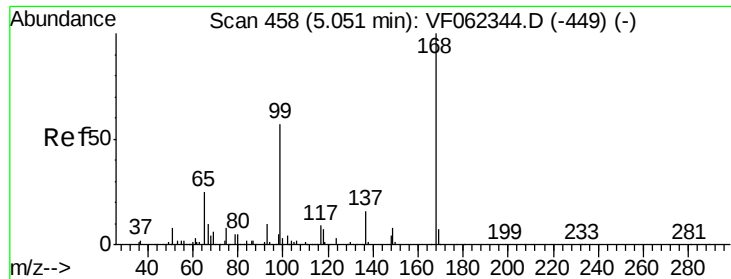
Instrument :
MSVOA_F
ClientSampleId :
OK-03-050919

Manual Integrations
APPROVED

MMDadoda
5/14/2019 11:21:32 AM

Quant Time: May 14 08:10:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062557.D

Acq: 13 May 2019 22:27

Instrument :

MSVOA_F

ClientSampleId :

OK-03-050919

Tot Ion:168 Resp: 210951

Ion Ratio Lower Upper

168 100

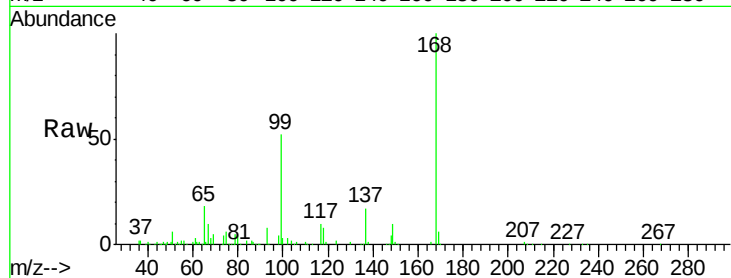
99 52.1 45.9 68.9

Manual Integrations

APPROVED

MMDadoda

5/14/2019 11:21:32 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.08

80000

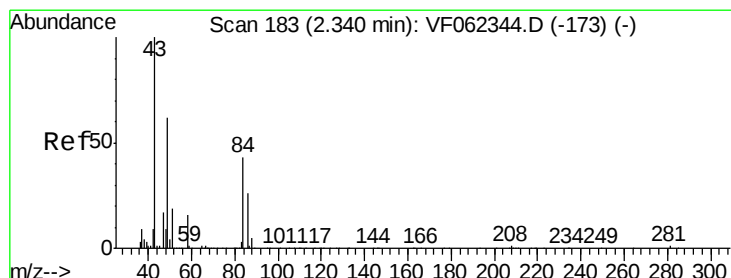
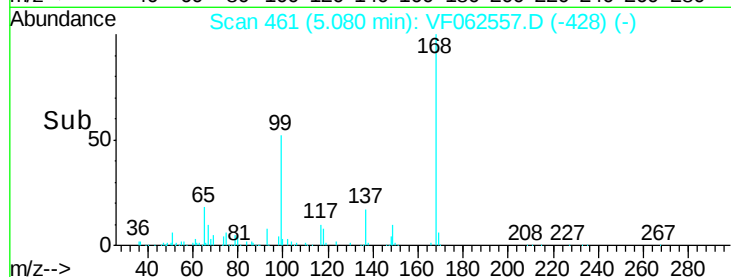
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20



#20

Methylene Chloride

Concen: 8.137 ug/l m

RT: 2.31 min Scan# 180

Delta R.T. -0.03 min

Lab File: VF062557.D

Acq: 13 May 2019 22:27

Tgt Ion: 84 Resp: 11873

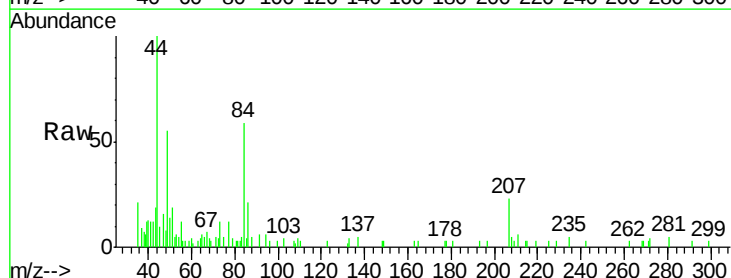
Ion Ratio Lower Upper

84 100

49 91.8 117.5 176.3#

51 31.7 37.0 55.4#

86 34.7 49.3 73.9#



Abundance Ion 83.90 (83.60 to 84.60): VF0

Ion 48.90 (48.60 to 49.60): VF0

Ion 50.90 (50.60 to 51.60): VF0

Ion 85.90 (85.60 to 86.60): VF0

5000

4000

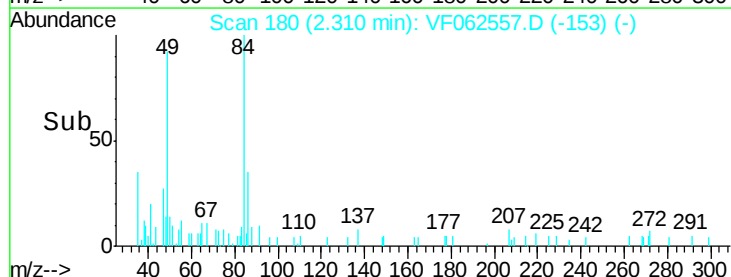
3000

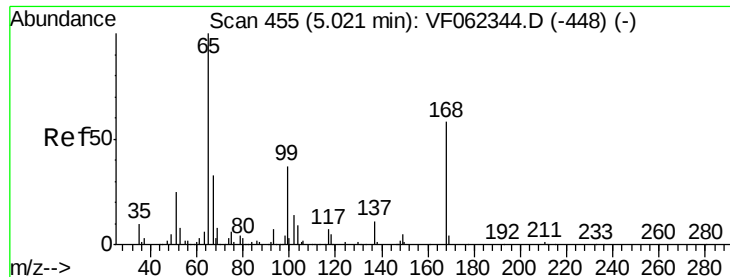
2000

1000

0

Time--> 2.20 2.30 2.40 2.50





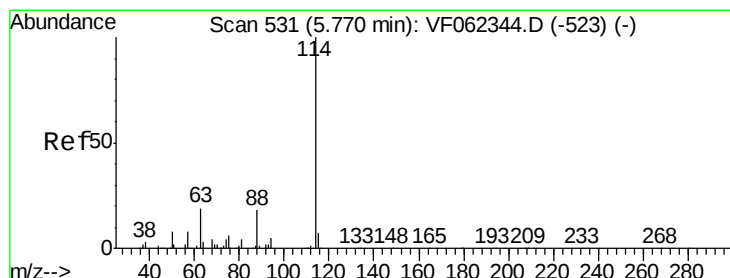
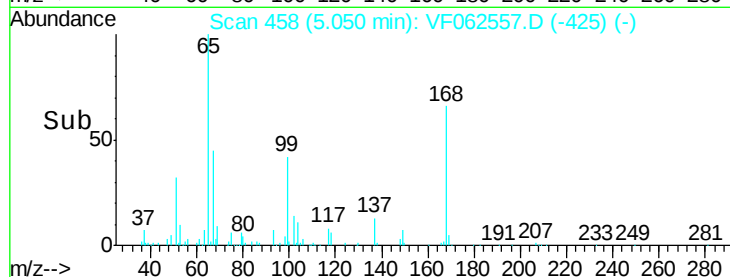
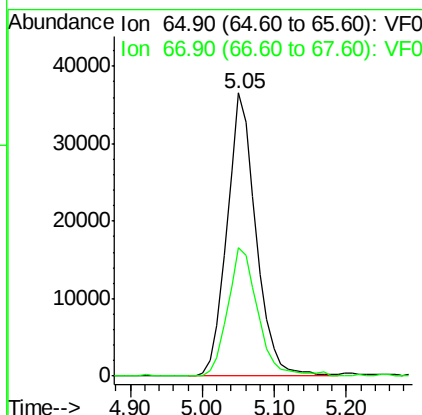
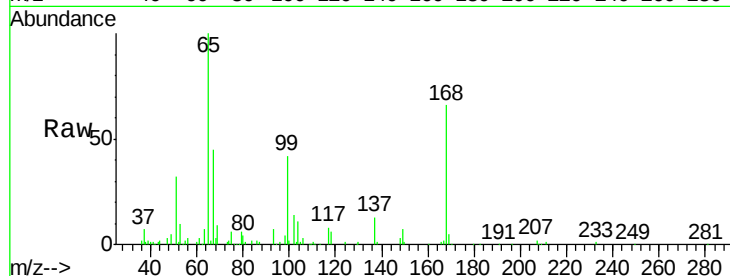
#33
 1,2-Dichloroethane-d4
 Concen: 51.408 ug/l
 RT: 5.05 min Scan# 458
 Delta R.T. 0.03 min
 Lab File: VF062557.D
 Acq: 13 May 2019 22:27

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-050919

Tot Ion	Ratio	Resp	Lower	Upper
65	100	102485		
67	46.3	0.0	85.8	

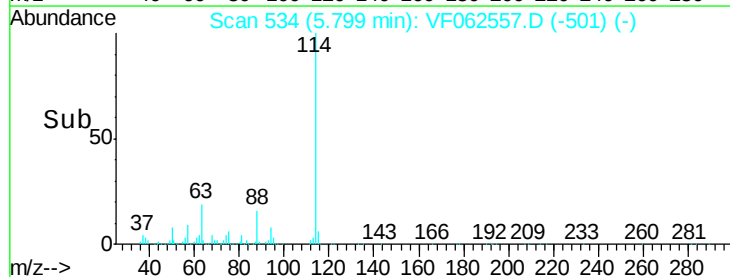
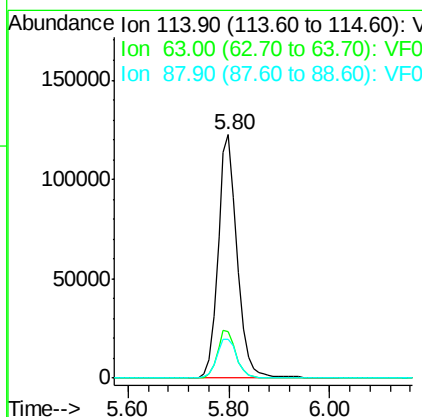
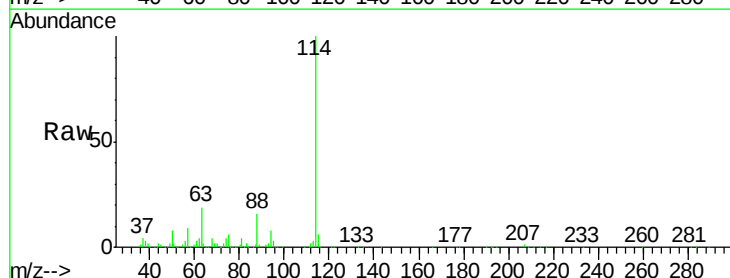
Manual Integrations
 APPROVED

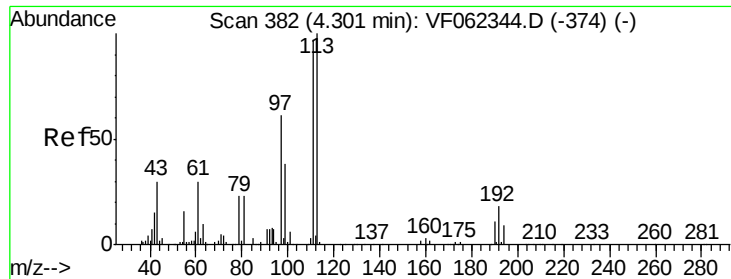
MMDadoda
 5/14/2019 11:21:32 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 534
 Delta R.T. 0.03 min
 Lab File: VF062557.D
 Acq: 13 May 2019 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	323667		
63	18.9	0.0	37.4	
88	16.1	0.0	36.4	





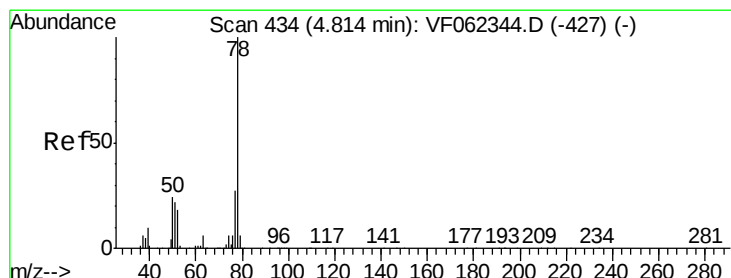
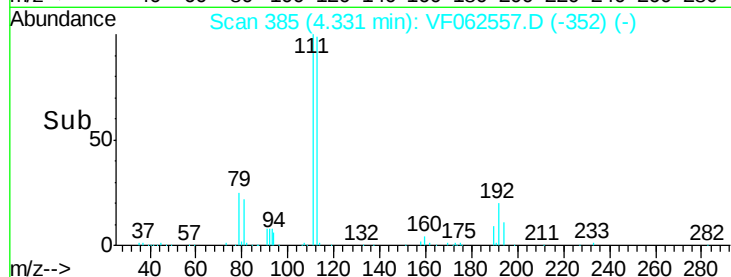
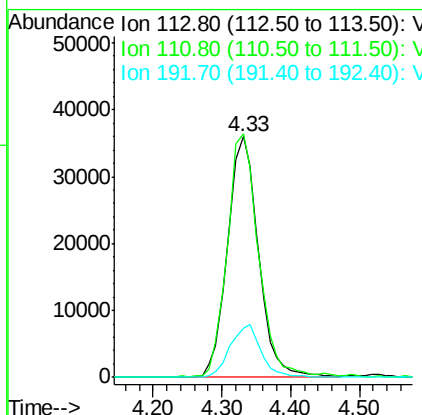
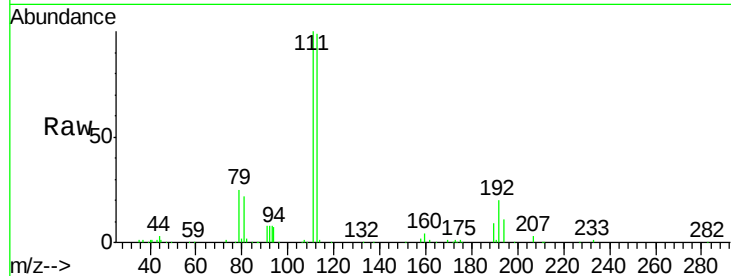
#35
 Dibromofluoromethane
 Concen: 43.646 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.03 min
 Lab File: VF062557.D
 Acq: 13 May 2019 22:27

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-050919

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	79.4	119.0
192	21.5	16.0	24.0

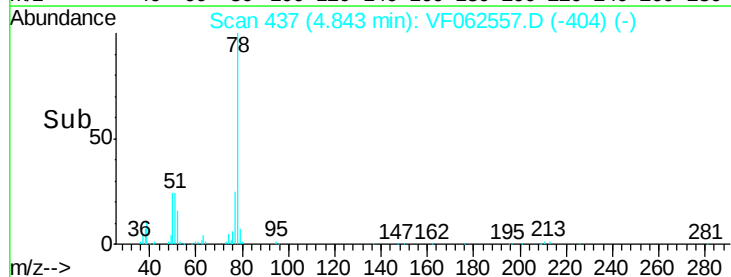
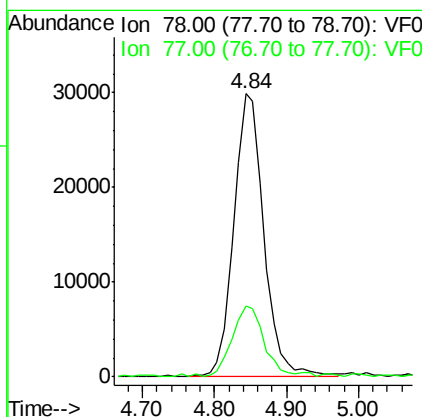
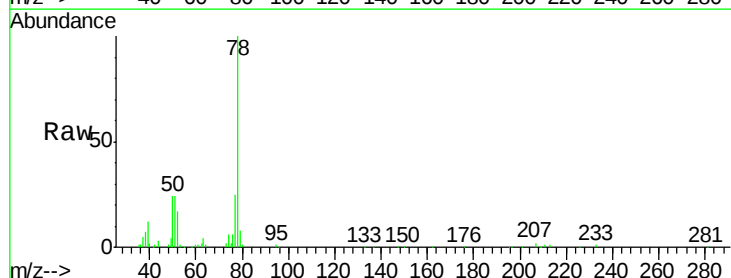
Manual Integrations
 APPROVED

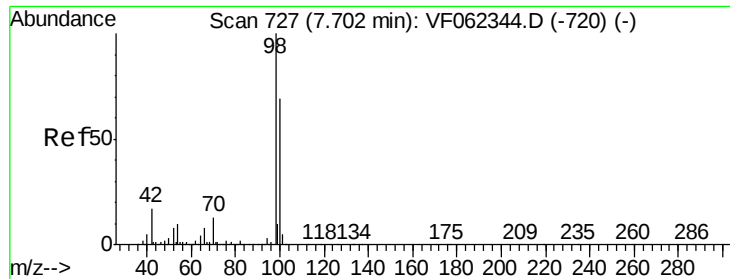
MMDadoda
 5/14/2019 11:21:32 AM



#40
 Benzene
 Concen: 14.228 ug/l
 RT: 4.84 min Scan# 437
 Delta R.T. 0.03 min
 Lab File: VF062557.D
 Acq: 13 May 2019 22:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	21.6	32.4





#50

Toluene-d8

Concen: 26.340 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.03 min

Lab File: VF062557.D

Acq: 13 May 2019 22:27

Instrument :

MSVOA_F

ClientSampleId :

OK-03-050919

Tot Ion: 98 Resp: 164410

Ion Ratio Lower Upper

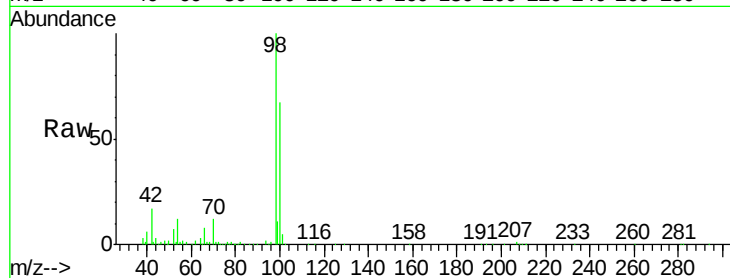
98 100

100 64.9 53.3 79.9

Manual Integrations
APPROVED

MMDadoda

5/14/2019 11:21:32 AM



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.73

80000

60000

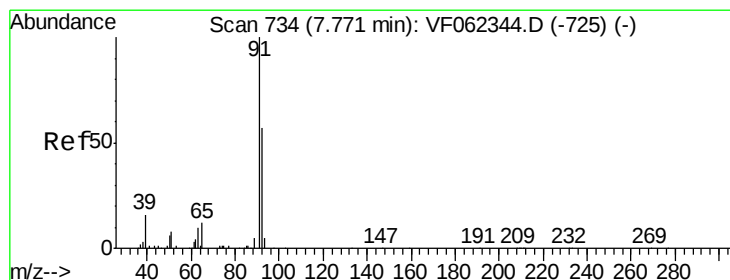
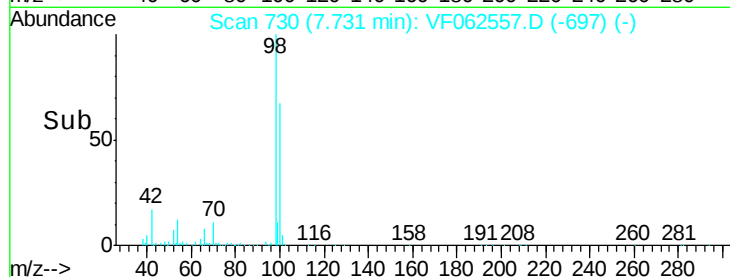
40000

20000

0

7.60 7.70 7.80 7.90

Time-->



#52

Toluene

Concen: 24.518 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.03 min

Lab File: VF062557.D

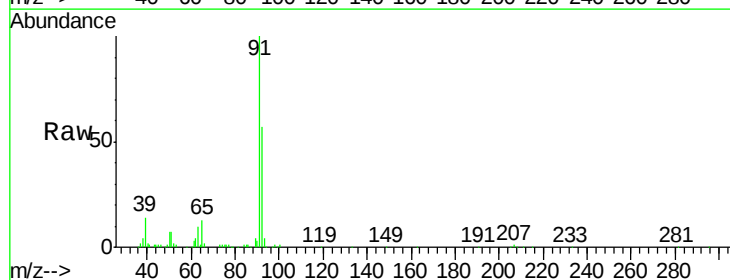
Acq: 13 May 2019 22:27

Tgt Ion: 92 Resp: 92608

Ion Ratio Lower Upper

92 100

91 177.3 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.80

80000

60000

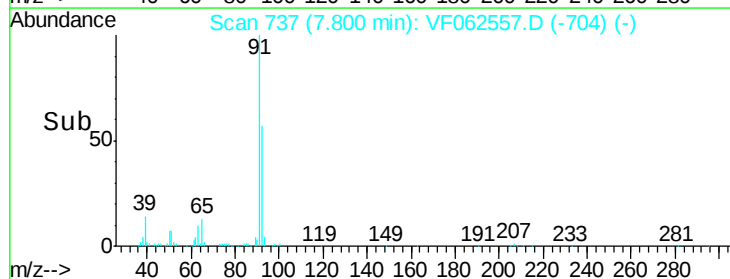
40000

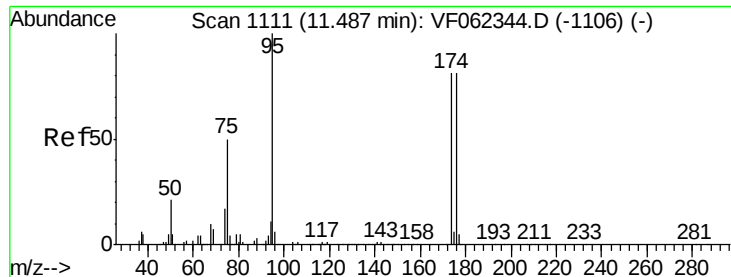
20000

0

7.70 7.80 7.90

Time-->





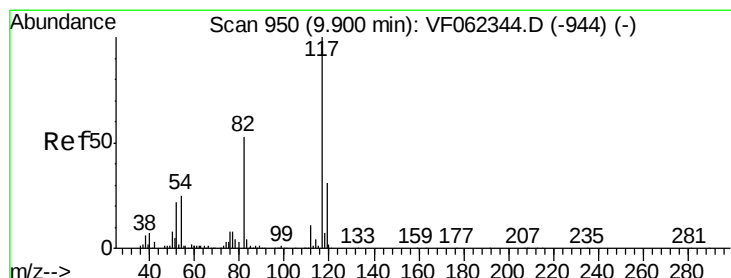
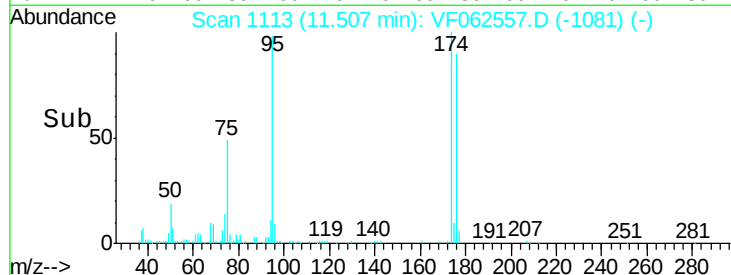
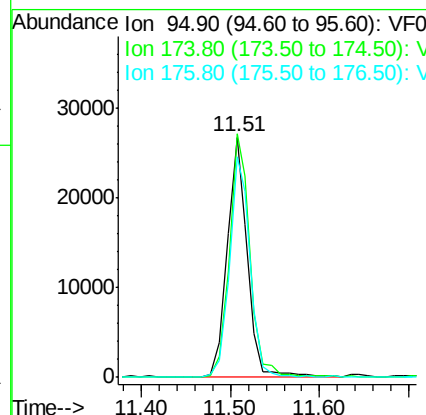
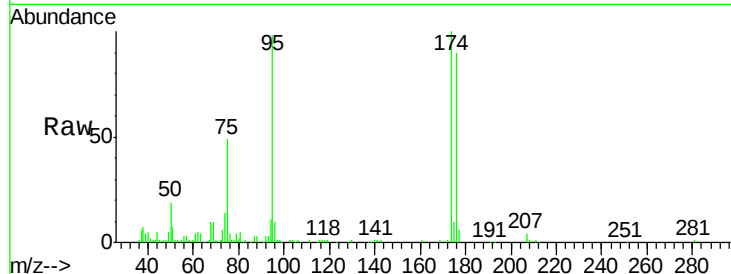
#62
4-Bromofluorobenzene
Concen: 15.169 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Instrument :
MSVOA_F
ClientSampleId :
OK-03-050919

Tot Ion	Ratio	Resp	Lower	Upper
95	100	42717		
174	104.5	0.0	191.8	
176	93.7	0.0	193.2	

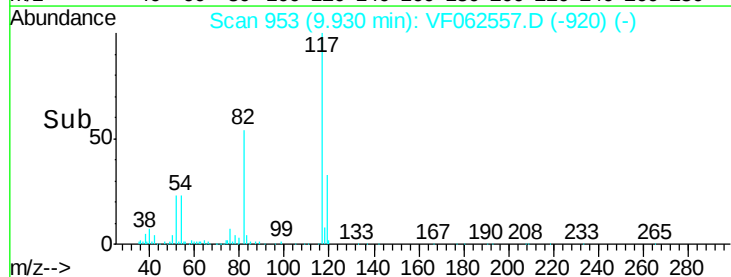
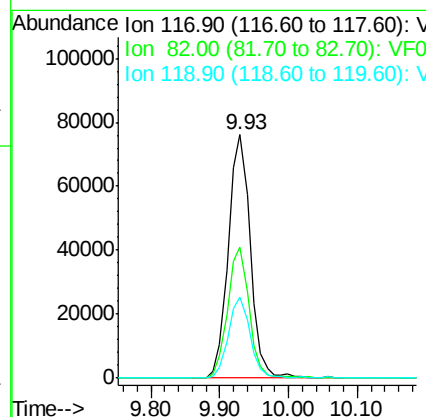
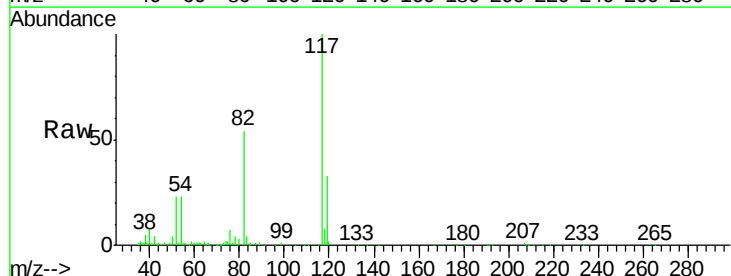
Manual Integrations
APPROVED

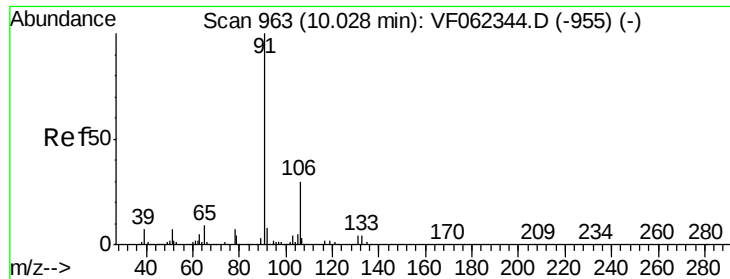
MMDadoda
5/14/2019 11:21:32 AM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	169039		
82	53.7	42.2	63.2	
119	33.4	25.0	37.4	





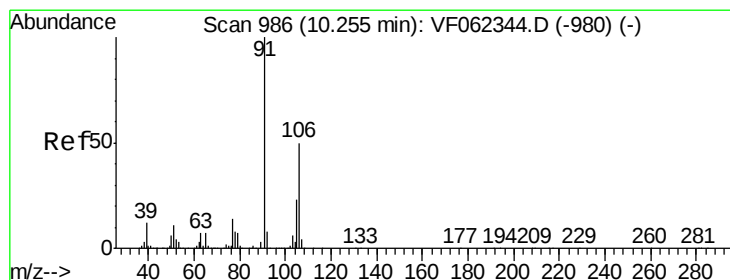
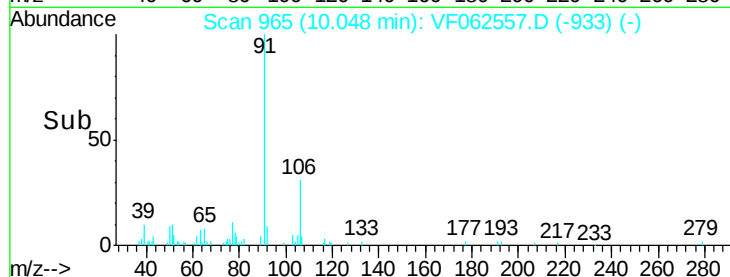
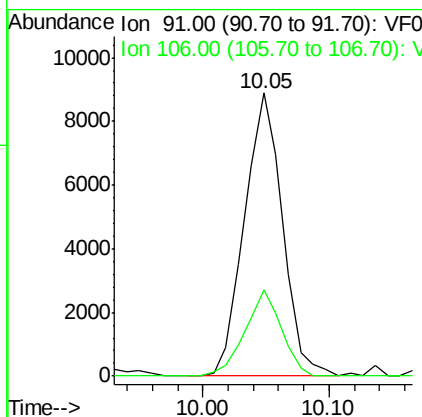
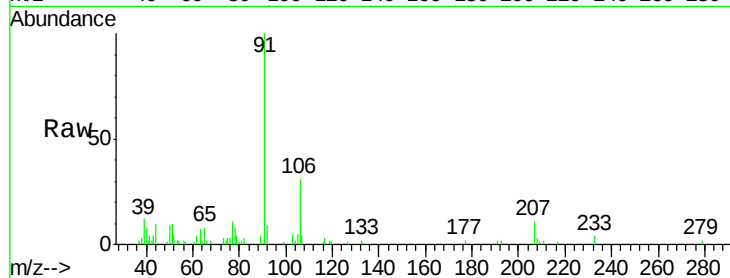
#67
Ethyl Benzene
Concen: 3.799 ug/l
RT: 10.05 min Scan# 965
Delta R.T. 0.02 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Instrument :
MSVOA_F
ClientSampleId :
OK-03-050919

Tot Ion	91.00	Resp	18607
Ion Ratio	Lower	Upper	
91	100		
106	30.7	24.1	36.1

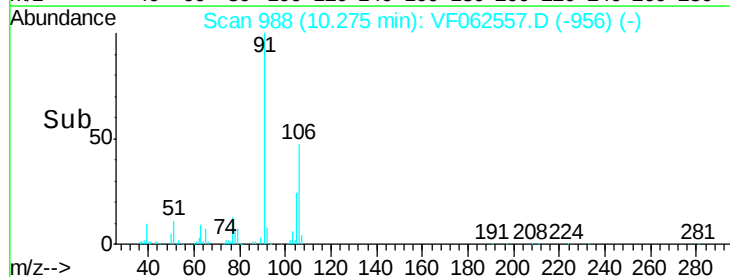
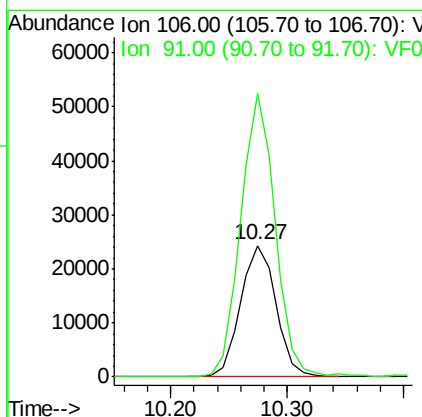
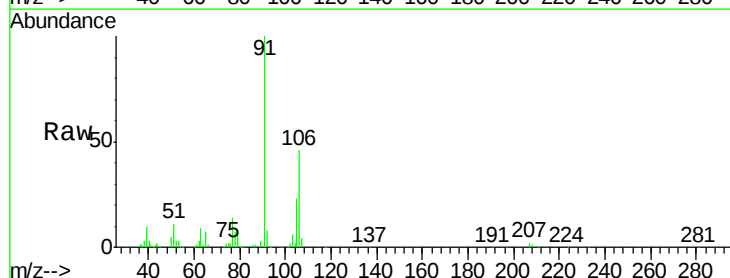
Manual Integrations
APPROVED

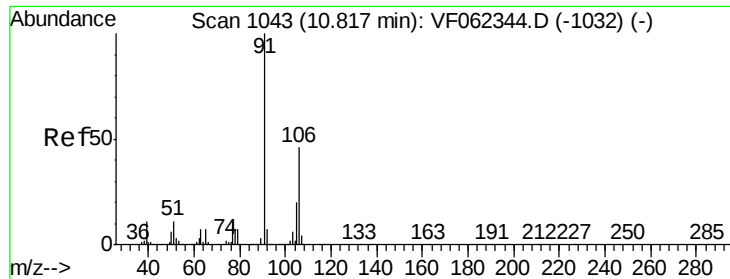
MMDadoda
5/14/2019 11:21:32 AM



#68
m/p-Xylenes
Concen: 28.264 ug/l
RT: 10.27 min Scan# 988
Delta R.T. 0.02 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Tgt Ion	106	Resp	51073
Ion Ratio	Lower	Upper	
106	100		
91	211.0	167.4	251.2





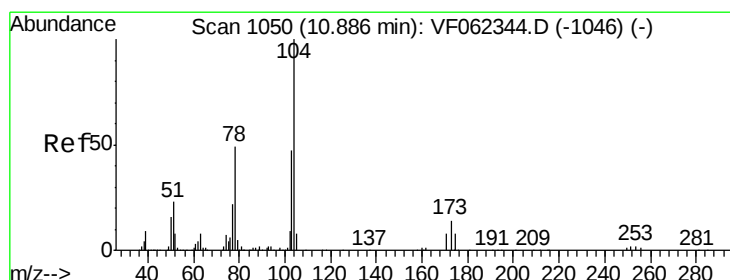
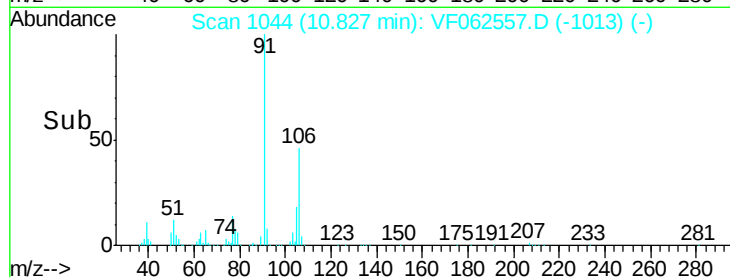
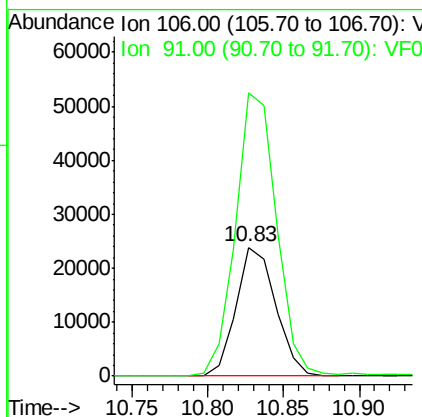
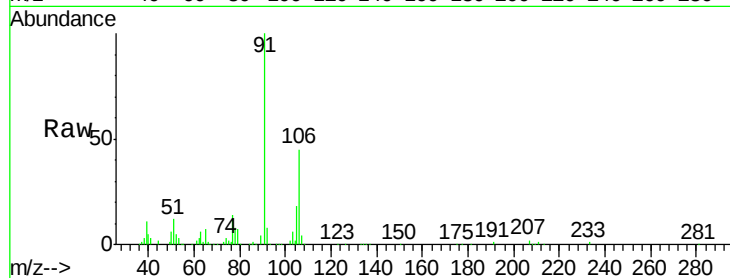
#69
o-Xylene
Concen: 22.436 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. 0.01 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Instrument :
MSVOA_F
ClientSampleId :
OK-03-050919

Tot Ion:106 Resp: 43809
Ion Ratio Lower Upper
106 100
91 228.2 111.3 333.8

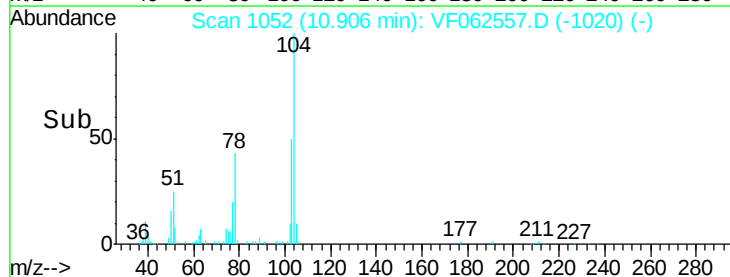
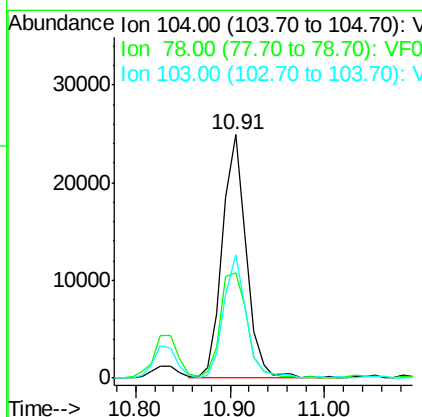
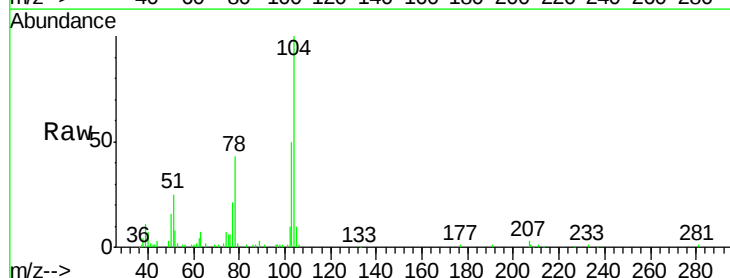
Manual Integrations
APPROVED

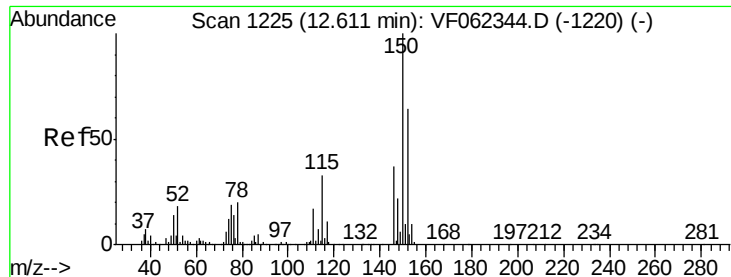
MMDadoda
5/14/2019 11:21:32 AM



#70
Styrene
Concen: 14.880 ug/l
RT: 10.91 min Scan# 1052
Delta R.T. 0.02 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Tgt Ion:104 Resp: 43544
Ion Ratio Lower Upper
104 100
78 49.3 39.5 59.3
103 48.4 38.4 57.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062557.D

Acq: 13 May 2019 22:27

Instrument :

MSVOA_F

ClientSampleId :

OK-03-050919

Tot Ion:152 Resp: 49772

Ion Ratio Lower Upper

152 100

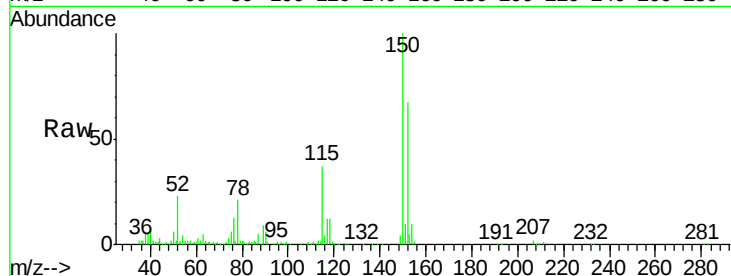
115 54.4 26.4 79.2

150 152.8 0.0 335.0

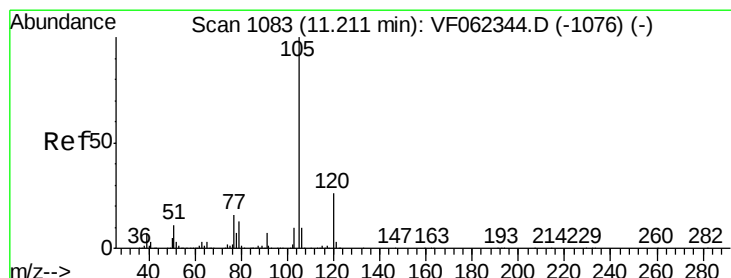
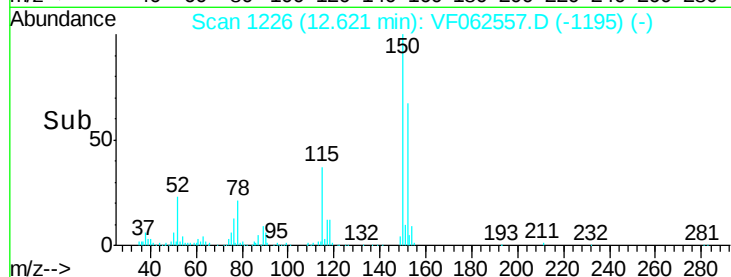
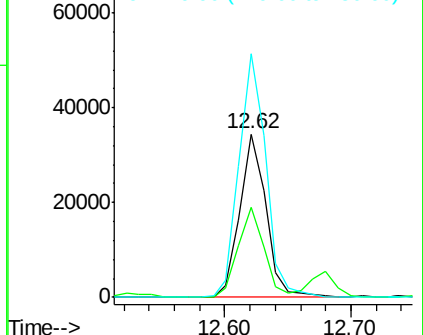
Manual Integrations
APPROVED

MMDadoda

5/14/2019 11:21:32 AM



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: 3.535 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VF062557.D

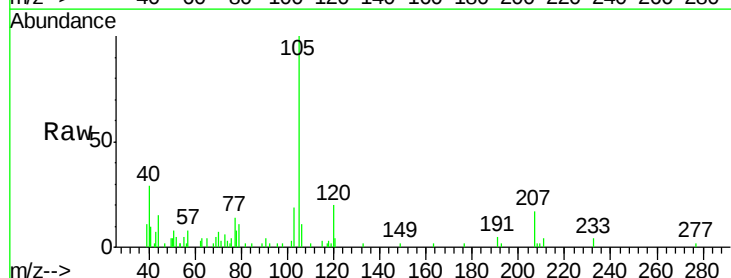
Acq: 13 May 2019 22:27

Tgt Ion:105 Resp: 10431

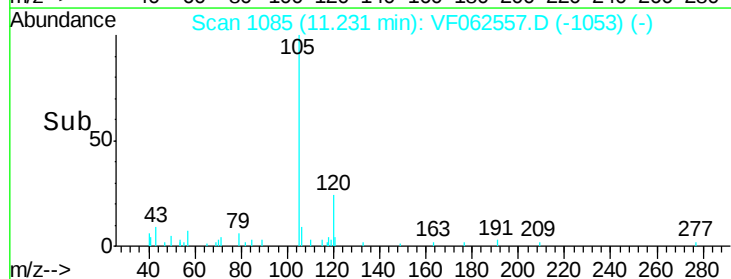
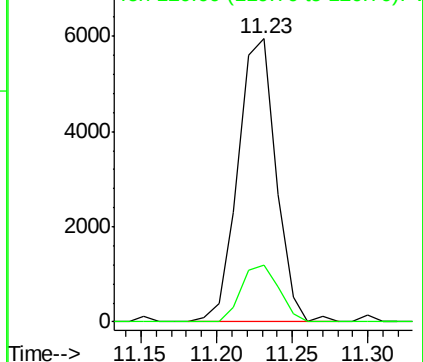
Ion Ratio Lower Upper

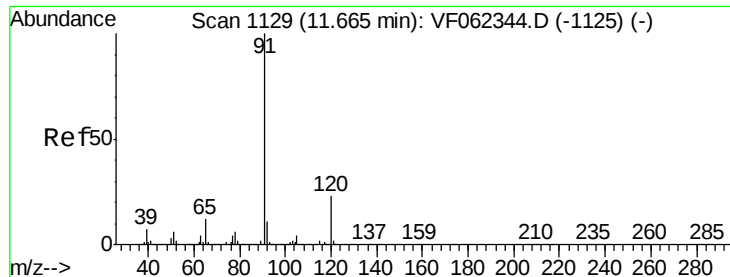
105 100

120 19.9 12.7 38.0



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





#78

n-propylbenzene

Concen: 4.302 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.02 min

Lab File: VF062557.D

Acq: 13 May 2019 22:27

Instrument :

MSVOA_F

ClientSampleId :

OK-03-050919

Tot Ion: 91 Resp: 13515

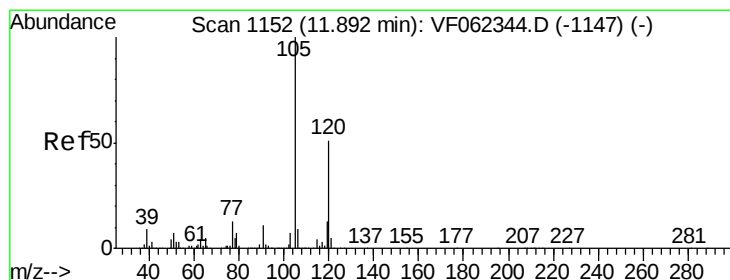
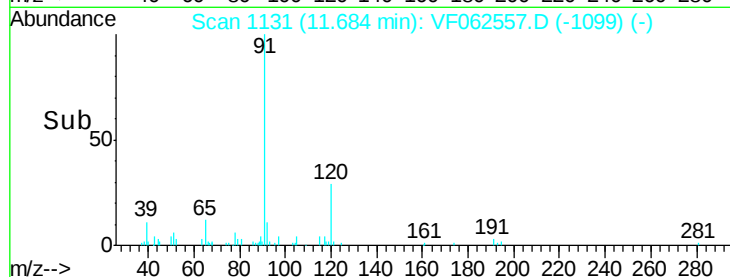
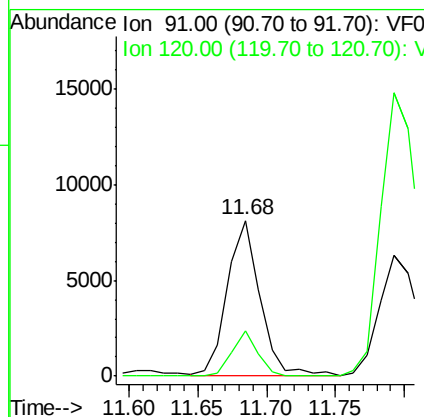
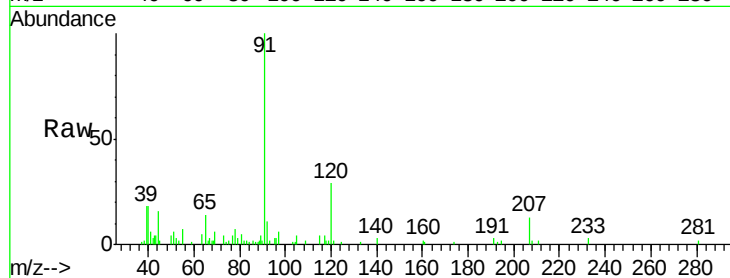
Ion Ratio Lower Upper

91 100

120 22.6 11.9 35.5

Manual Integrations
APPROVED

MMDadoda
5/14/2019 11:21:32 AM



#80

1,3,5-Trimethylbenzene

Concen: 44.123 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VF062557.D

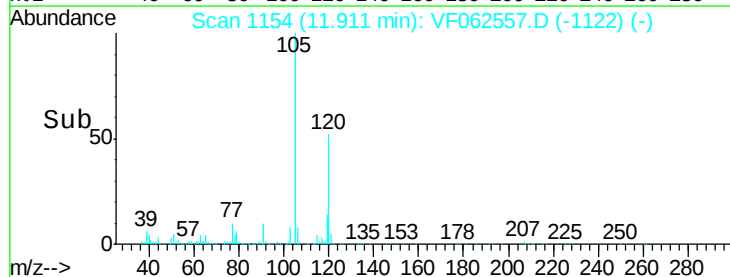
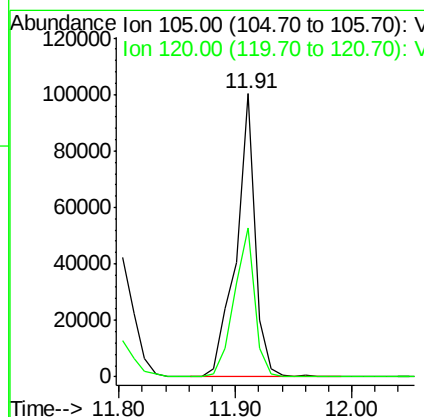
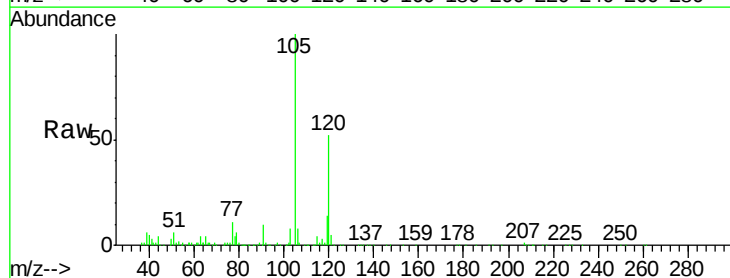
Acq: 13 May 2019 22:27

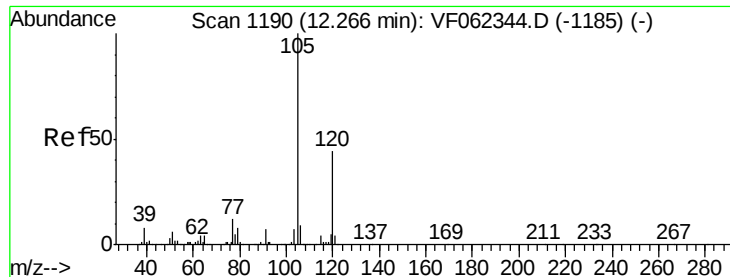
Tgt Ion: 105 Resp: 114113

Ion Ratio Lower Upper

105 100

120 56.5 24.6 74.0





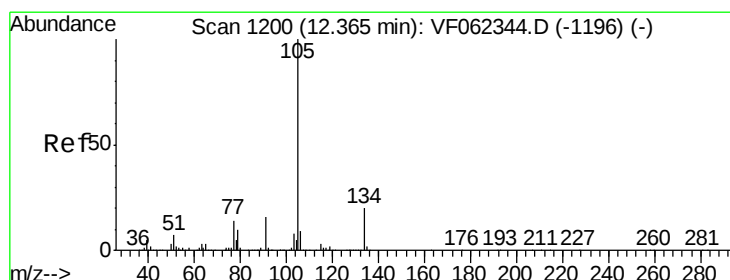
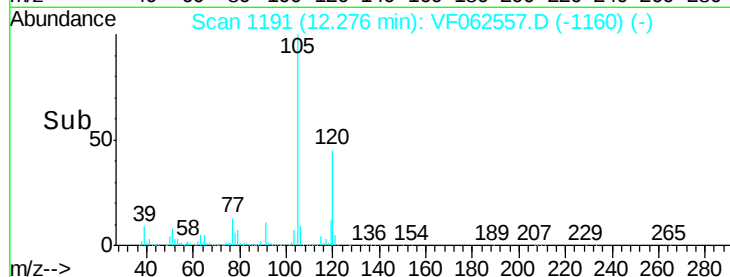
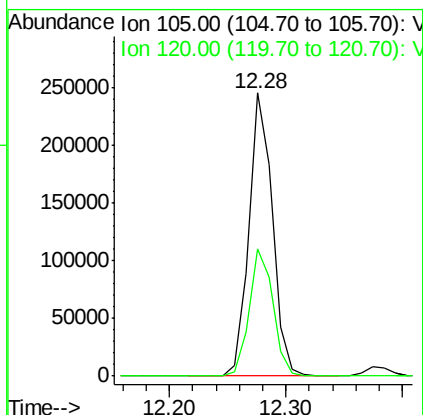
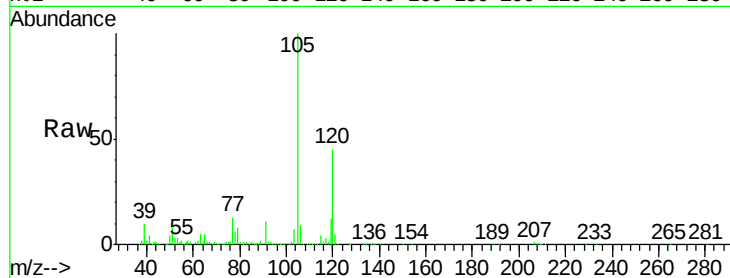
#84
1,2,4-Trimethylbenzene
Concen: 135.245 ug/l
RT: 12.28 min Scan# 1191
Delta R.T. 0.01 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Instrument :
MSVOA_F
ClientSampleId :
OK-03-050919

Tot Ion	Ratio	Lower	Upper
105	100		
120	45.5	22.6	67.7

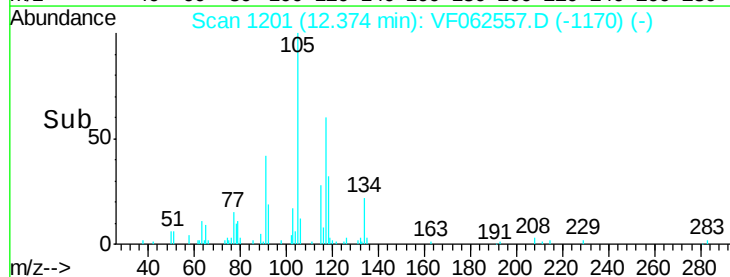
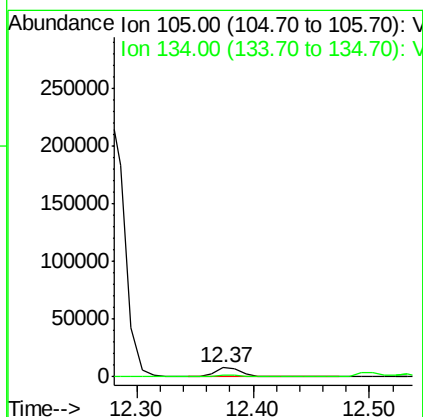
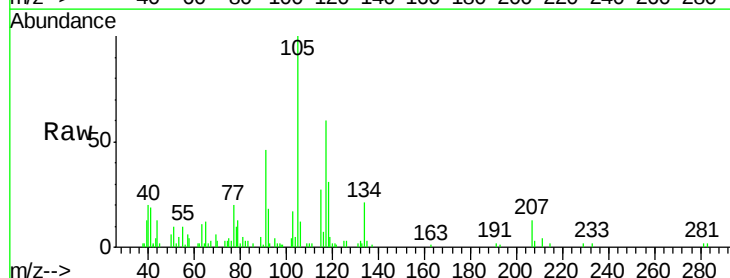
Manual Integrations
APPROVED

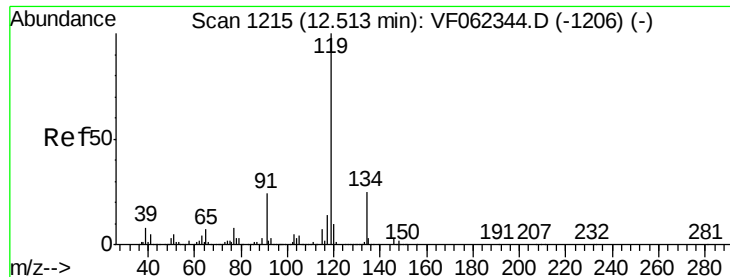
MMDadoda
5/14/2019 11:21:32 AM



#85
sec-Butylbenzene
Concen: 3.697 ug/l
RT: 12.37 min Scan# 1201
Delta R.T. 0.01 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Tgt Ion	Ratio	Lower	Upper
105	100		
134	23.1	9.8	29.5





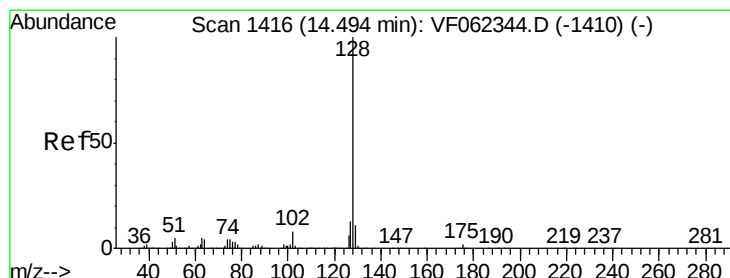
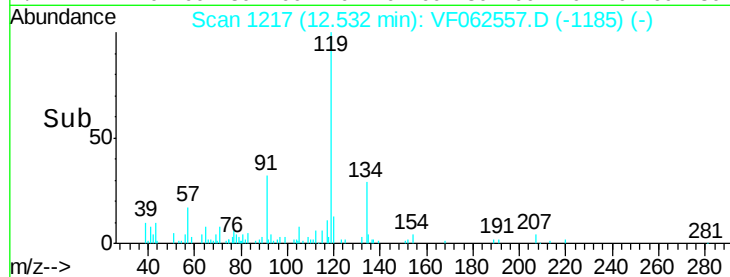
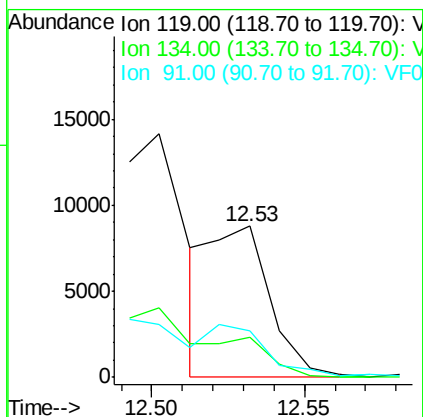
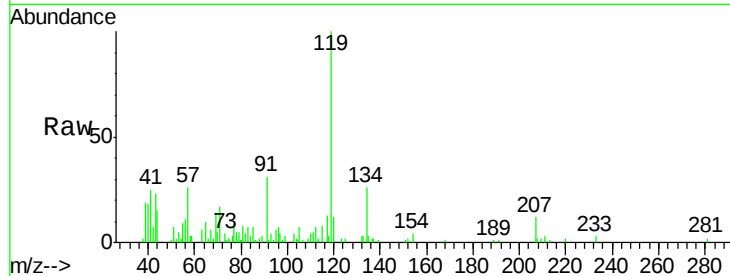
#86
p-Isopropyltoluene
Concen: 3.880 ug/l m
RT: 12.53 min Scan# 1217
Delta R.T. 0.02 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Instrument :
MSVOA_F
ClientSampleId :
OK-03-050919

Tot Ion	Ratio	Resp	Lower	Upper
119	100	11927		
134	77.9	12.9	38.7#	
91	38.8	12.3	36.8#	

Manual Integrations
APPROVED

MMDadoda
5/14/2019 11:21:32 AM



#95
Naphthalene
Concen: 1324.407 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062557.D
Acq: 13 May 2019 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	2444853		
127	13.3	10.5	15.7	
129	13.4	8.6	12.8#	

