

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111618\
 Data File : VF060769.D
 Acq On : 16 Nov 2018 17:27
 Operator : VA/AP
 Sample : J5915-02
 Misc : 5.02g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 T-2

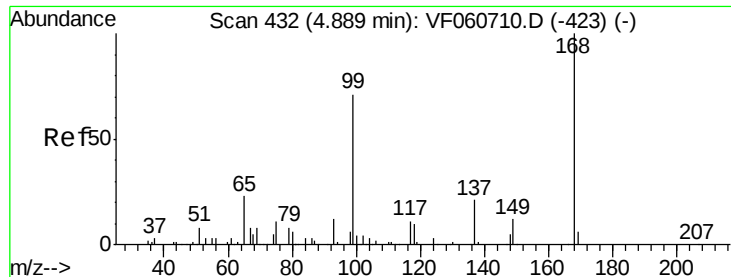
Manual Integrations
 APPROVED

apatel
 11/19/2018 12:46:00 PM

Quant Time: Nov 17 04:50:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	165823	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	304873	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.80	117	213458	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	124938	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	81875	43.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.58%	
35) Dibromofluoromethane	4.13	113	85950	37.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.00%	
50) Toluene-d8	7.58	98	209430	34.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	68.94%	
62) 4-Bromofluorobenzene	11.42	95	131927	48.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.06%	
Target Compounds						
					Qvalue	
39) Methylcyclohexane	5.48	83	279822	68.215	ug/l	89
67) Ethyl Benzene	9.92	91	842452	103.760	ug/l	95
68) m/p-Xylenes	10.16	106	1322967	455.945	ug/l	97
69) o-Xylene	10.73	106	358869	110.008	ug/l	96
73) Isopropylbenzene	11.14	105	771108	76.676	ug/l	97
78) n-propylbenzene	11.61	91	3221732	274.684	ug/l	94
80) 1,3,5-Trimethylbenzene	11.86	105	3678361	460.711	ug/l	95
84) 1,2,4-Trimethylbenzene	12.24	105	7674842	929.458	ug/l	81
85) sec-Butylbenzene	12.33	105	831725	72.327	ug/l #	74
86) p-Isopropyltoluene	12.48	119	340254m	35.427	ug/l	
89) n-Butylbenzene	12.86	91	2414201	246.311	ug/l #	47
95) Naphthalene	14.47	128	748461	145.496	ug/l #	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060769.D

Acq: 16 Nov 2018 17:27

Instrument :

MSVOA_F

ClientSampleId :

T-2

Tot Ion:168 Resp: 165823

Ion Ratio Lower Upper

168 100

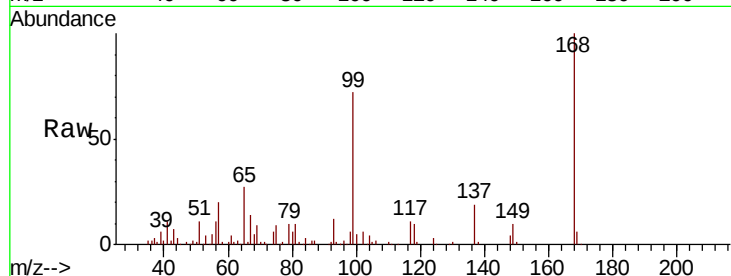
99 72.2 57.2 85.8

Manual Integrations

APPROVED

apatel

11/19/2018 12:46:00 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

50000

40000

30000

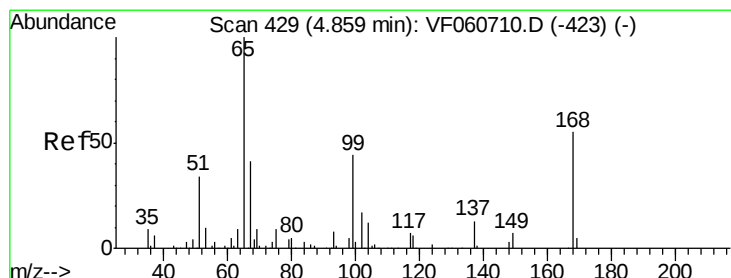
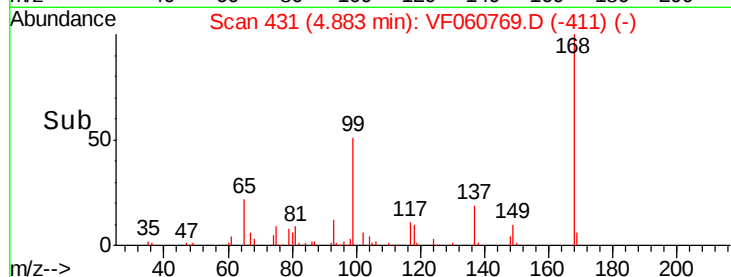
20000

10000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 43.288 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF060769.D

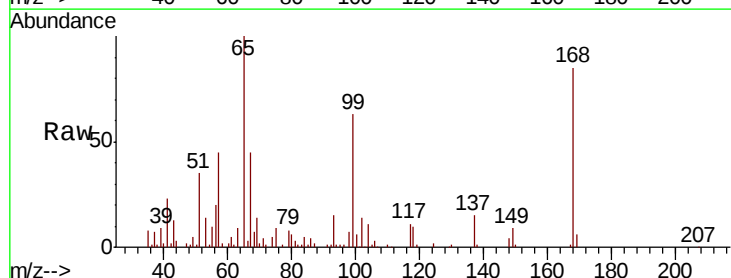
Acq: 16 Nov 2018 17:27

Tgt Ion: 65 Resp: 81875

Ion Ratio Lower Upper

65 100

67 45.1 0.0 90.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.86

30000

25000

20000

15000

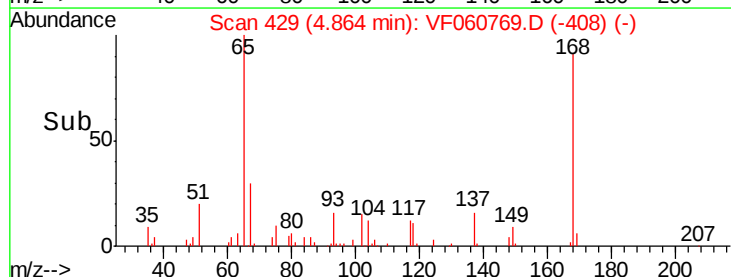
10000

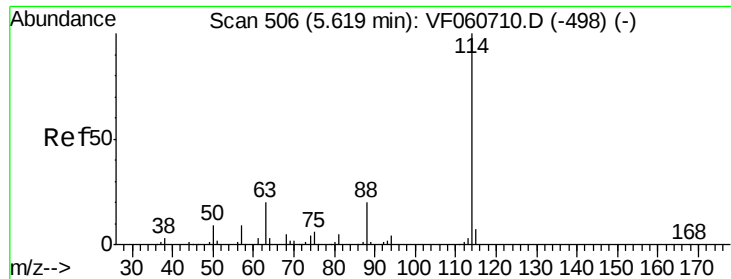
5000

0

4.80 4.90

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060769.D

Acq: 16 Nov 2018 17:27

Instrument :

MSVOA_F

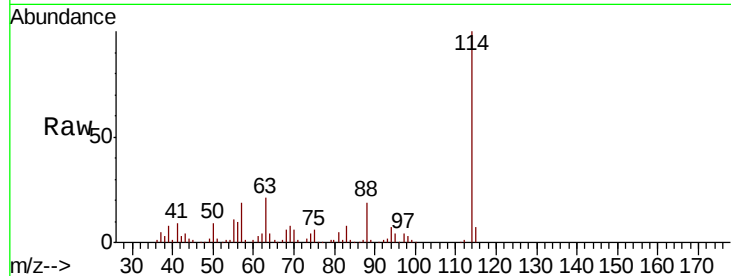
ClientSampled :

T-2

Tot Ion:	114	Resp:	304873
Ion Ratio	Lower	Upper	
114	100		
63	21.0	0.0	40.8
88	19.4	0.0	39.6

Manual Integrations
APPROVED

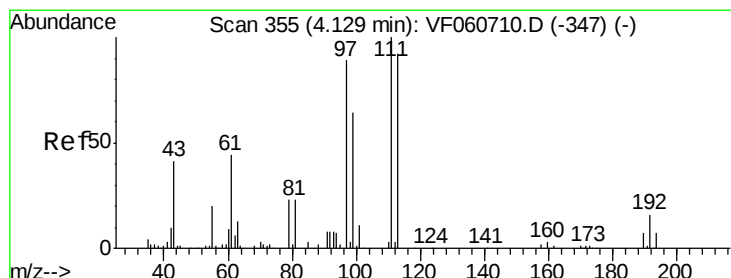
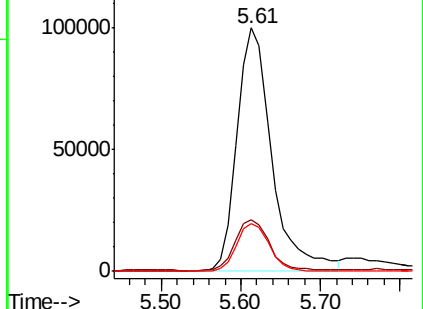
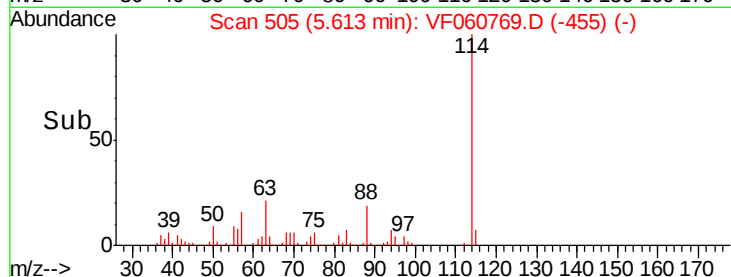
apatel
11/19/2018 12:46:00 PM



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 37.505 ug/l

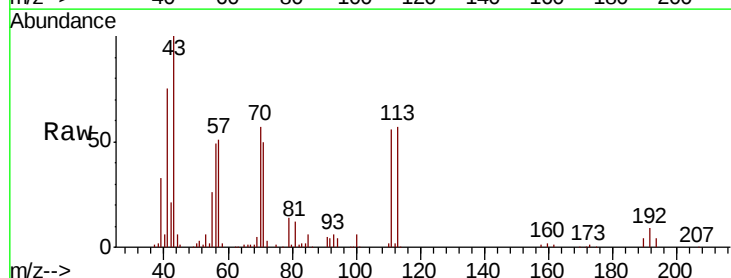
RT: 4.13 min Scan# 355

Delta R.T. 0.00 min

Lab File: VF060769.D

Acq: 16 Nov 2018 17:27

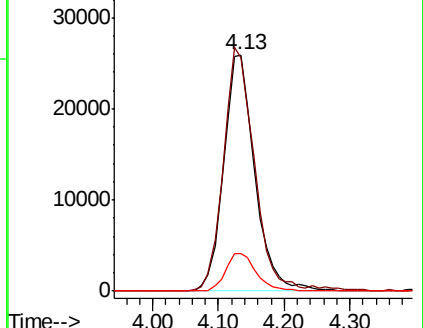
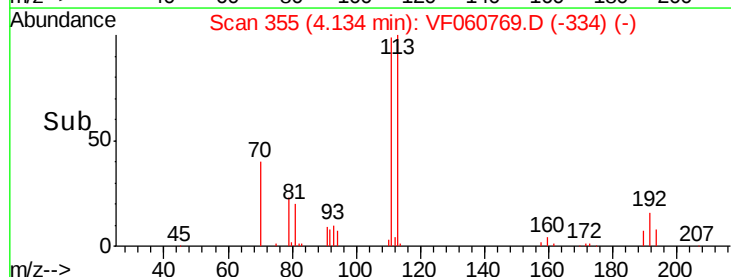
Tgt Ion:	113	Resp:	85950
Ion Ratio	Lower	Upper	
113	100		
111	98.9	87.1	130.7
192	15.8	13.8	20.6

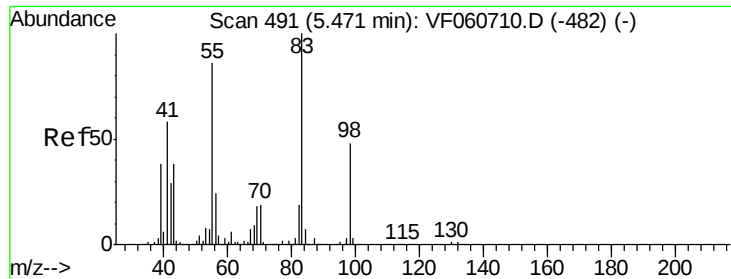


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





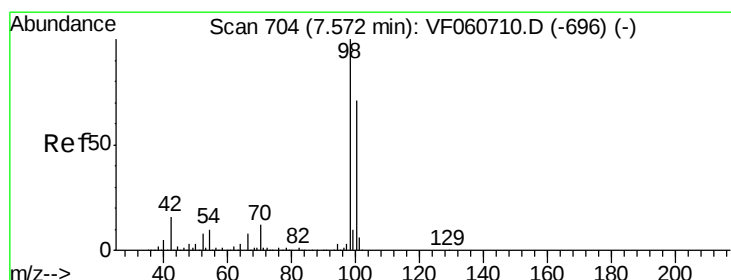
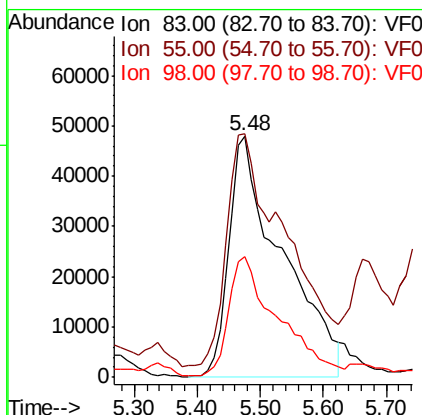
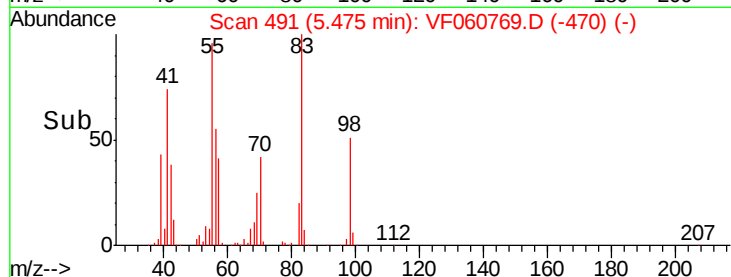
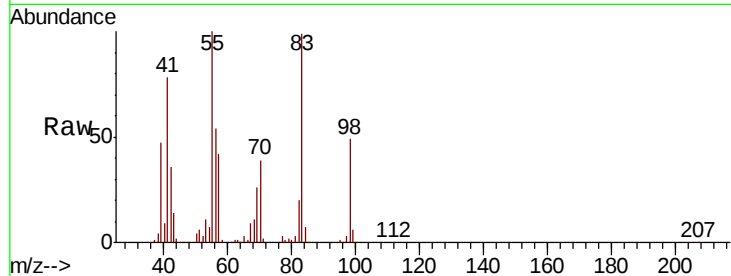
#39
Methvlcvclohexane
Concen: 68.215 ug/l
RT: 5.48 min Scan# 491
Delta R.T. 0.00 min
Lab File: VF060769.D
Acq: 16 Nov 2018 17:27

Instrument :
MSVOA_F
ClientSampled :
T-2

Tot Ion	Ratio	Lower	Upper
83	100		
55	100.7	69.0	103.4
98	49.8	38.5	57.7

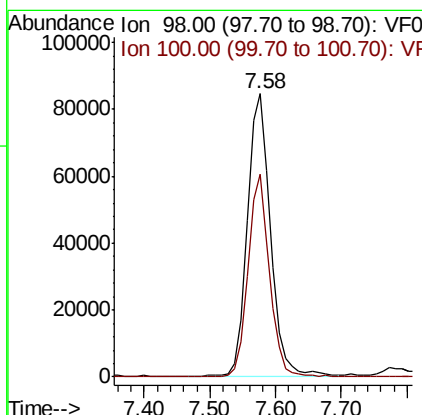
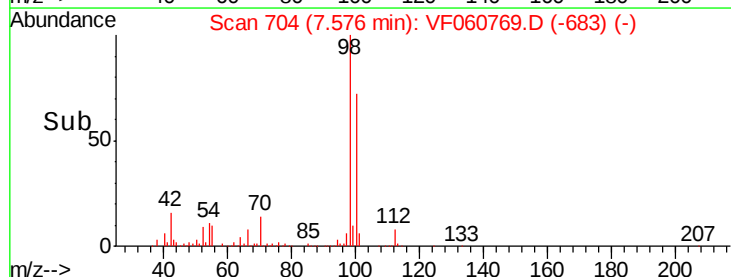
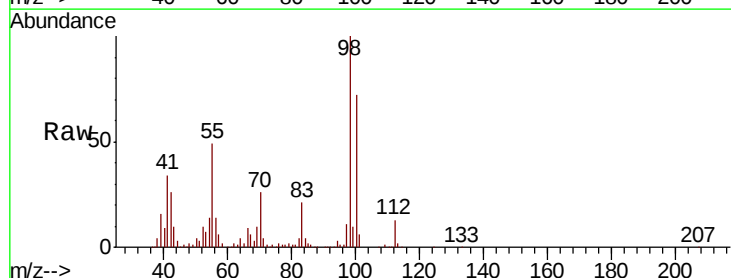
Manual Integrations
APPROVED

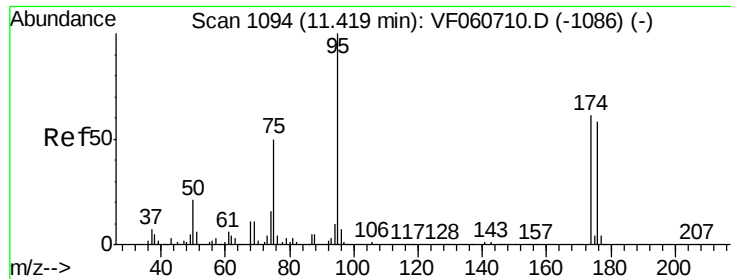
apatel
11/19/2018 12:46:00 PM



#50
Toluene-d8
Concen: 34.471 ug/l
RT: 7.58 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF060769.D
Acq: 16 Nov 2018 17:27

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.5	56.5	84.7





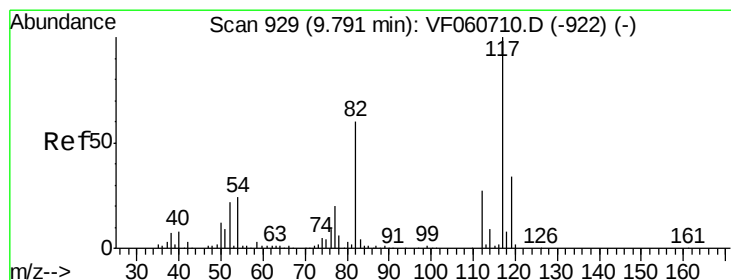
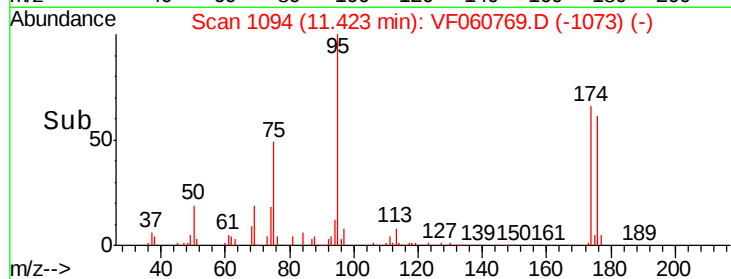
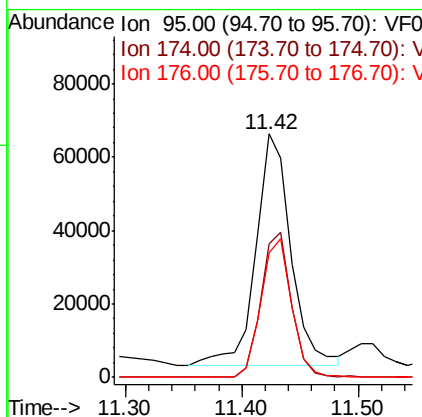
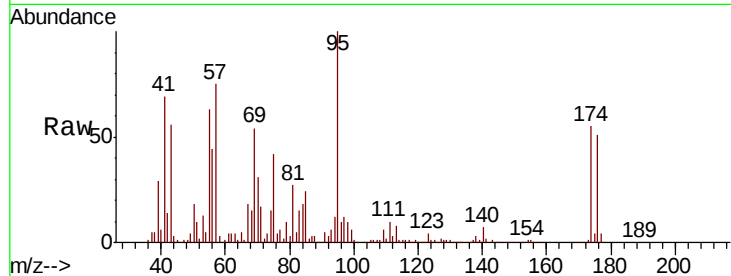
#62
4-Bromofluorobenzene
Concen: 48.527 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VF060769.D
Acq: 16 Nov 2018 17:27

Instrument :
MSVOA_F
ClientSampled :
T-2

Tot Ion	Ratio	Resp	Lower	Upper
95	100	131927		
174	55.1	0.0	121.6	
176	51.1	0.0	115.2	

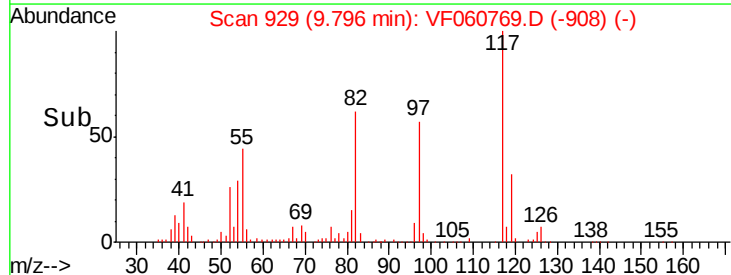
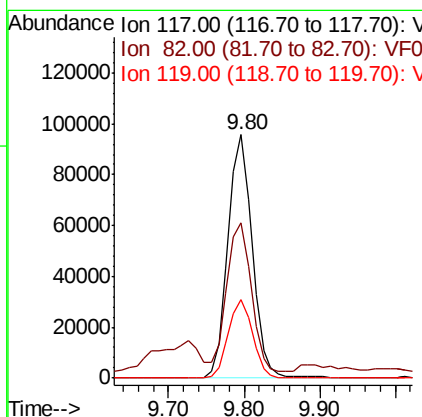
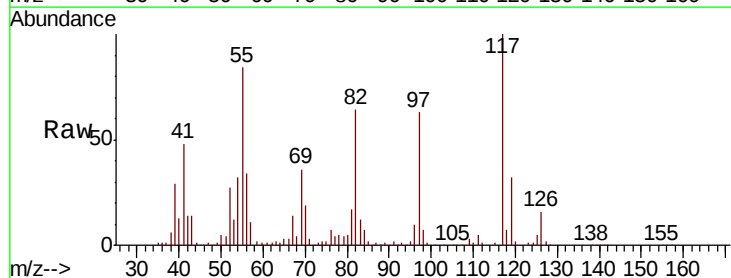
Manual Integrations
APPROVED

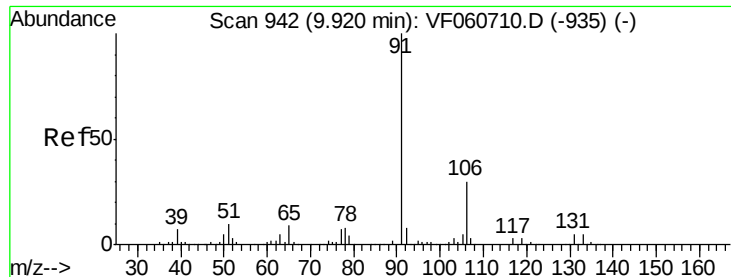
apatel
11/19/2018 12:46:00 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF060769.D
Acq: 16 Nov 2018 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	213458		
82	63.6	47.9	71.9	
119	32.3	26.8	40.2	





#67

Ethyl Benzene

Concen: 103.760 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.00 min

Lab File: VF060769.D

Acq: 16 Nov 2018 17:27

Instrument :

MSVOA_F

ClientSampled :

T-2

Tot Ion: 91 Resp: 842452

Ion Ratio Lower Upper

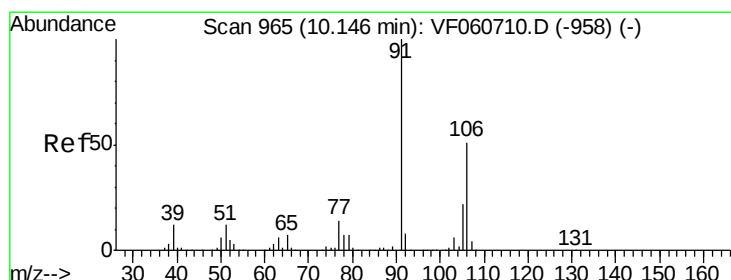
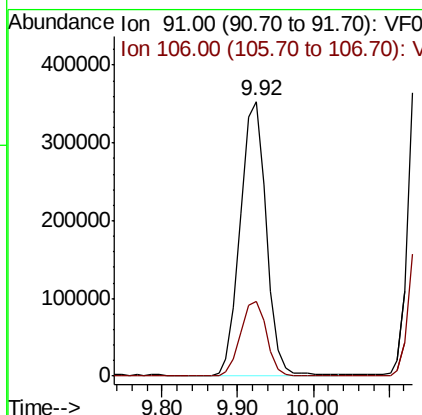
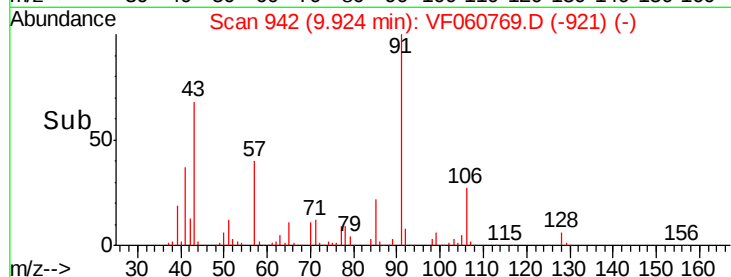
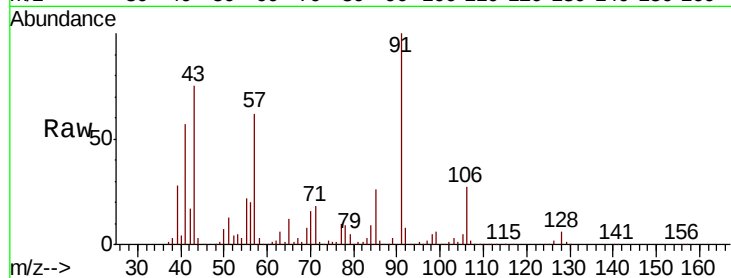
91 100

106 27.0 23.9 35.9

Manual Integrations
APPROVED

apatel

11/19/2018 12:46:00 PM



#68

m/p-Xylenes

Concen: 455.945 ug/l

RT: 10.16 min Scan# 966

Delta R.T. 0.01 min

Lab File: VF060769.D

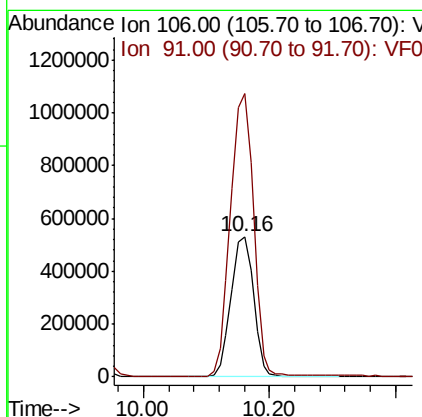
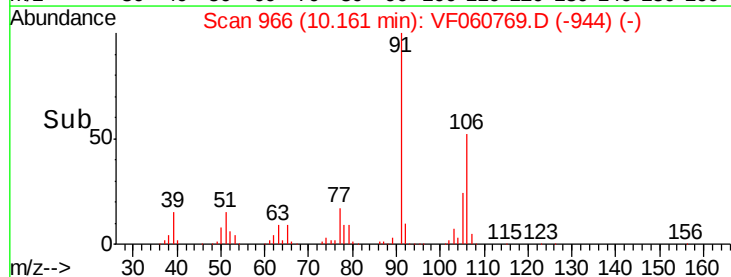
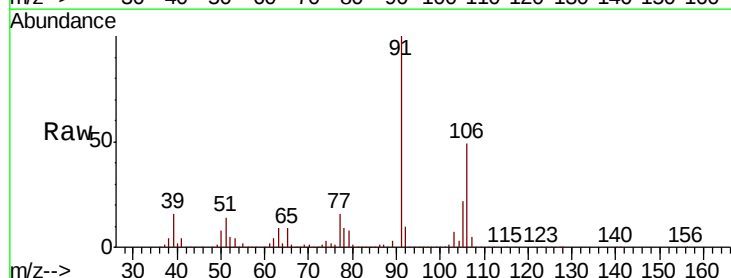
Acq: 16 Nov 2018 17:27

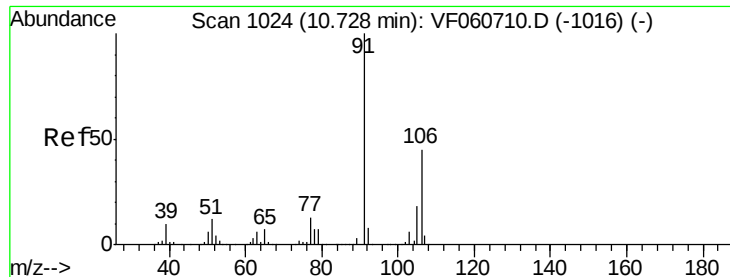
Tgt Ion: 106 Resp: 1322967

Ion Ratio Lower Upper

106 100

91 202.1 158.2 237.2





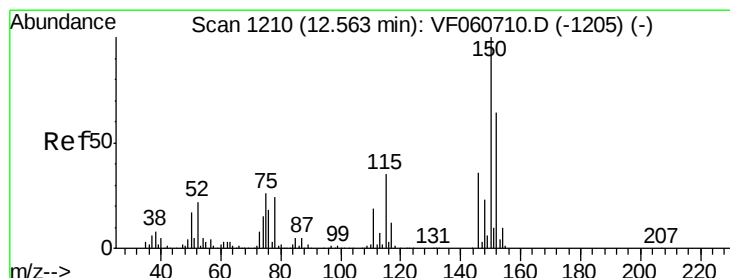
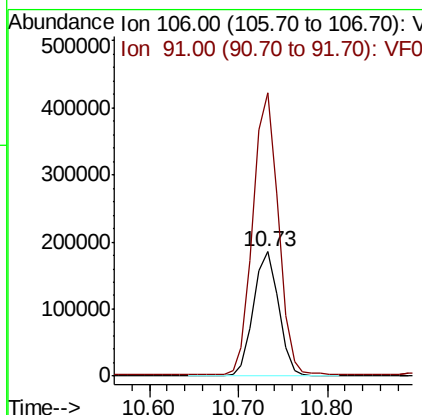
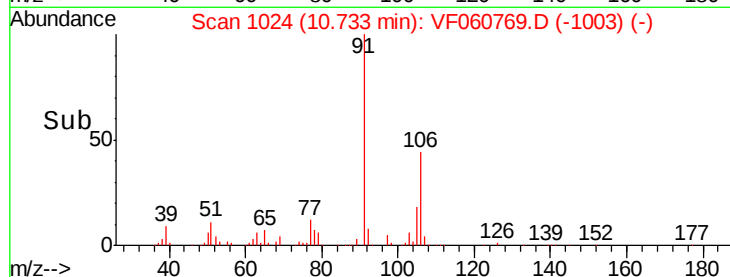
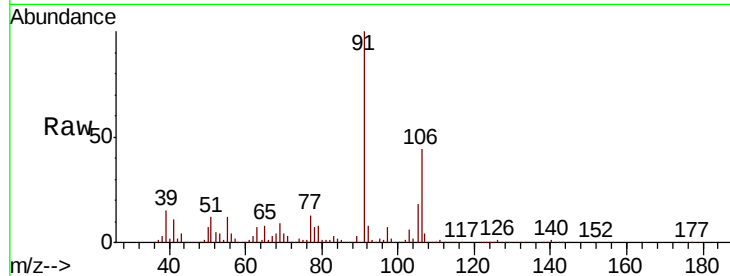
#69
o-Xylene
Concen: 110.008 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VF060769.D
Acq: 16 Nov 2018 17:27

Instrument :
MSVOA_F
ClientSampled :
T-2

Tot Ion	Ratio	Resp	Lower	Upper
106	100			
91	227.3	110.3	330.9	

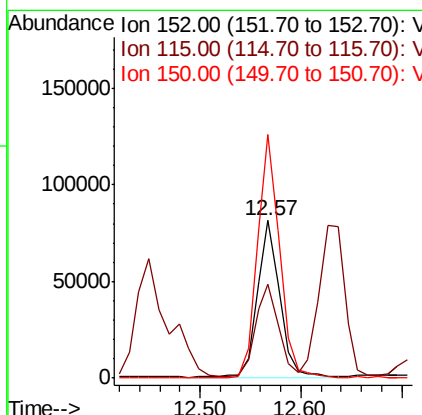
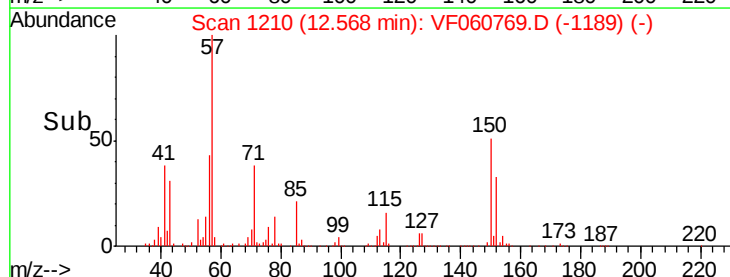
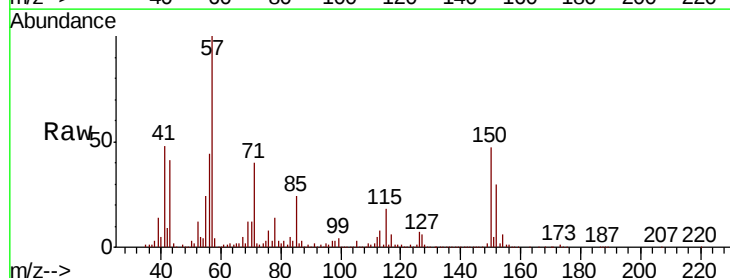
Manual Integrations
APPROVED

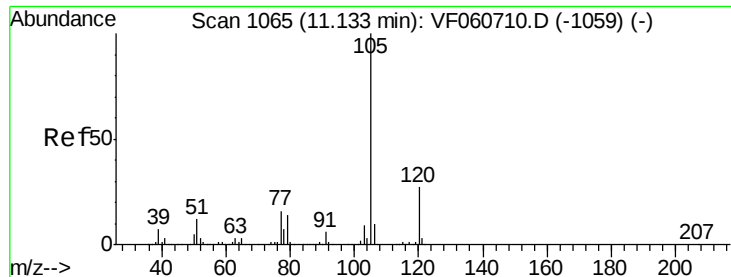
apatel
11/19/2018 12:46:00 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1210
Delta R.T. 0.00 min
Lab File: VF060769.D
Acq: 16 Nov 2018 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
115	59.5	27.9	83.7	
150	154.6	0.0	316.4	





#73

Isopropylbenzene

Concen: 76.676 ug/l

RT: 11.14 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060769.D

Acq: 16 Nov 2018 17:27

Instrument :

MSVOA_F

ClientSampleId :

T-2

Tot Ion:105 Resp: 771108

Ion Ratio Lower Upper

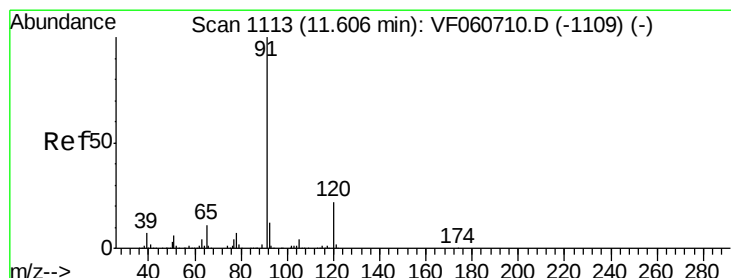
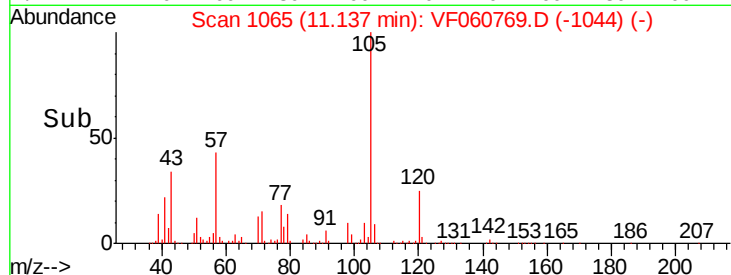
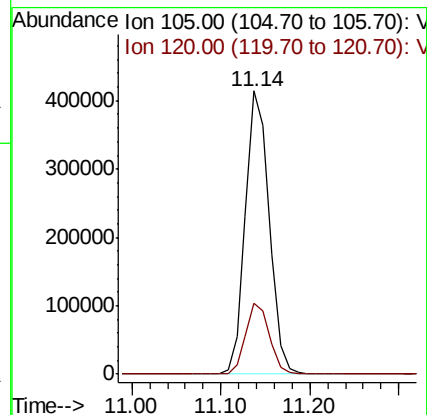
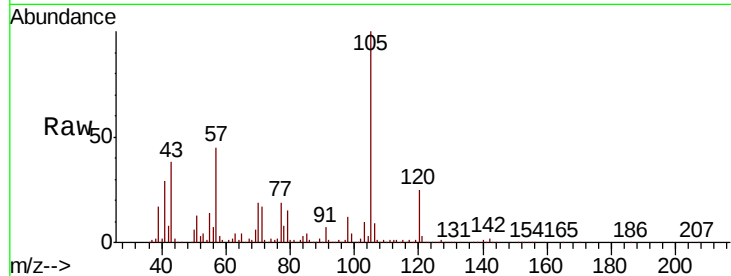
105 100

120 25.0 13.4 40.1

Manual Integrations
APPROVED

apatel

11/19/2018 12:46:00 PM



#78

n-propylbenzene

Concen: 274.684 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF060769.D

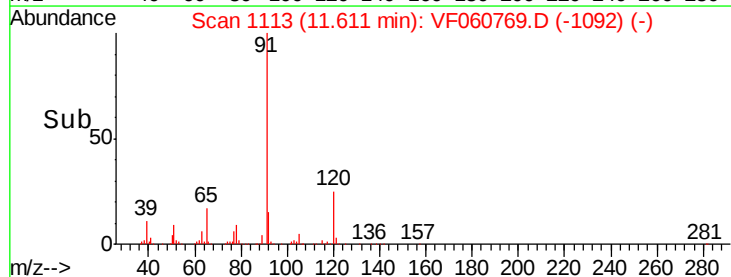
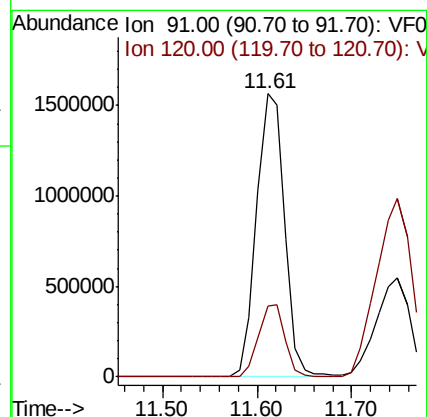
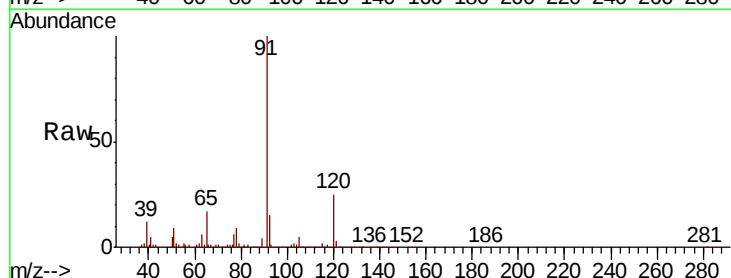
Acq: 16 Nov 2018 17:27

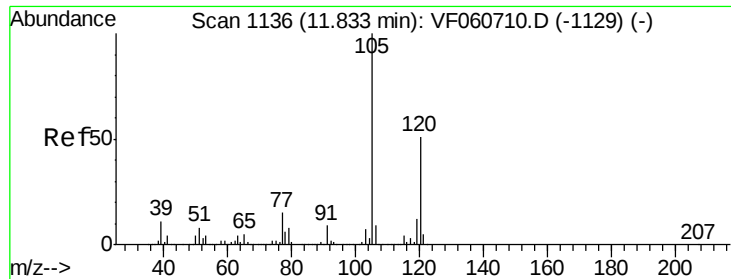
Tgt Ion: 91 Resp: 3221732

Ion Ratio Lower Upper

91 100

120 25.2 11.2 33.5





#80

1,3,5-Trimethylbenzene

Concen: 460.711 ug/l

RT: 11.86 min Scan# 1138

Delta R.T. 0.02 min

Lab File: VF060769.D

Acq: 16 Nov 2018 17:27

Instrument :

MSVOA_F

ClientSampled :

T-2

Tot Ion:105 Resp: 3678361

Ion Ratio Lower Upper

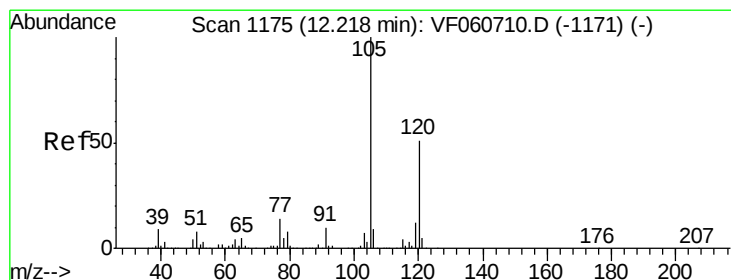
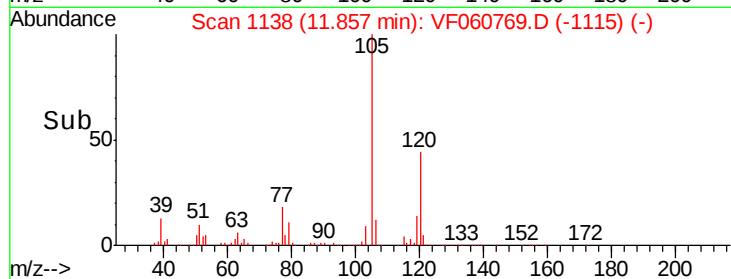
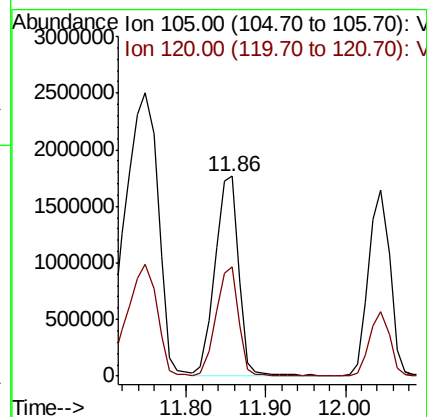
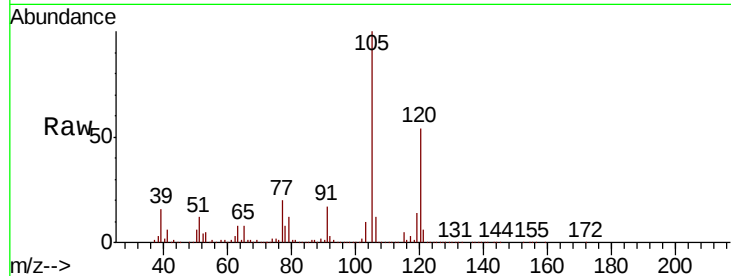
105 100

120 54.4 25.6 76.8

Manual Integrations
APPROVED

apatel

11/19/2018 12:46:00 PM



#84

1,2,4-Trimethylbenzene

Concen: 929.458 ug/l

RT: 12.24 min Scan# 1177

Delta R.T. 0.02 min

Lab File: VF060769.D

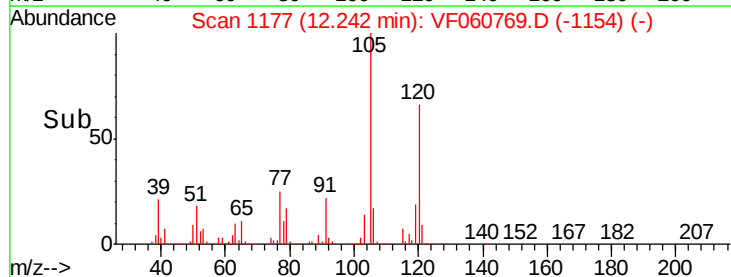
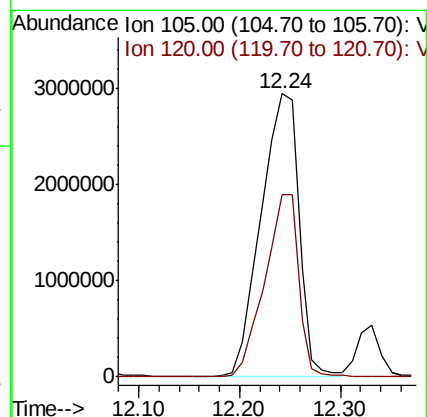
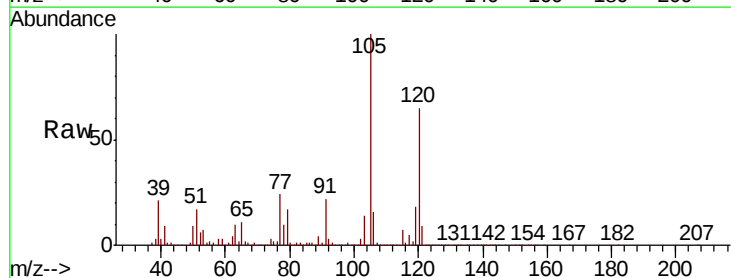
Acq: 16 Nov 2018 17:27

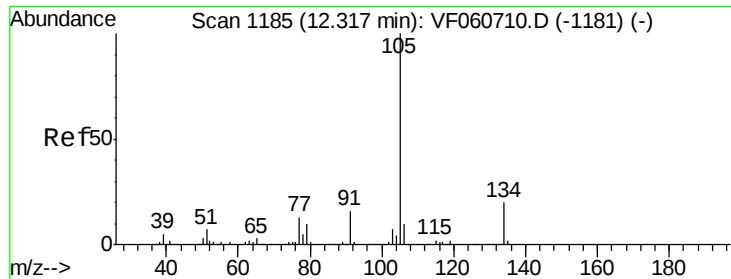
Tgt Ion:105 Resp: 7674842

Ion Ratio Lower Upper

105 100

120 64.6 25.5 76.5





#85

sec-Butylbenzene

Concen: 72.327 ug/l

RT: 12.33 min Scan# 1186

Delta R.T. 0.01 min

Lab File: VF060769.D

Acq: 16 Nov 2018 17:27

Instrument :

MSVOA_F

ClientSampled :

T-2

Tot Ion:105 Resp: 831725

Ion Ratio Lower Upper

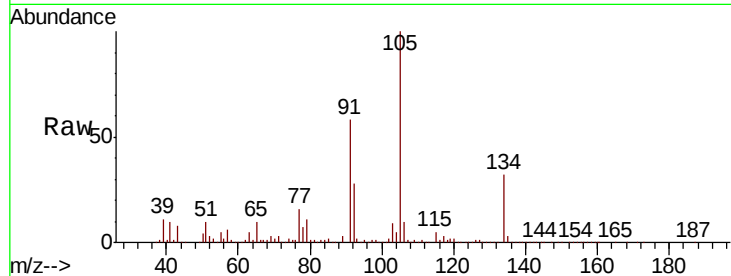
105 100

134 32.2 10.1 30.3#

Manual Integrations
APPROVED

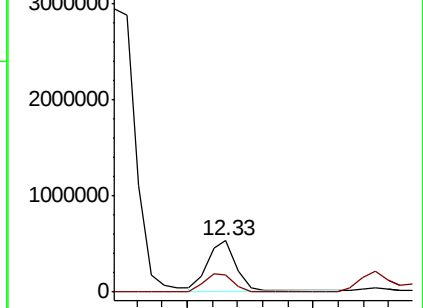
apatel

11/19/2018 12:46:00 PM

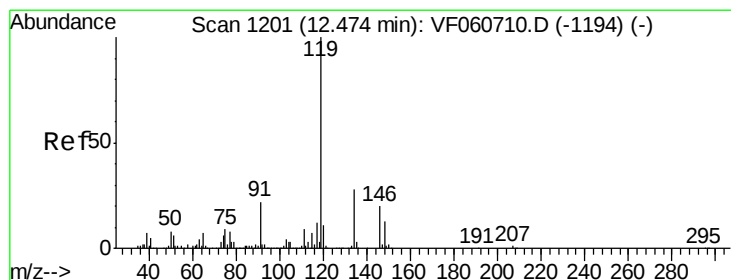
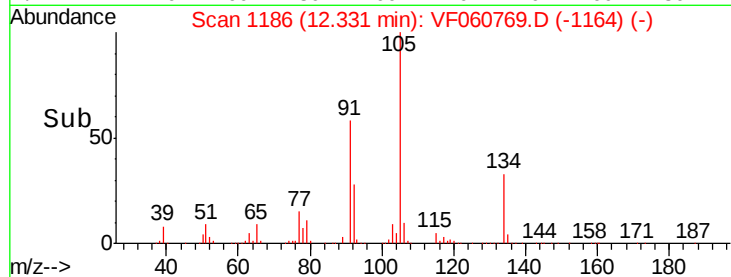


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 35.427 ug/l m

RT: 12.48 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF060769.D

Acq: 16 Nov 2018 17:27

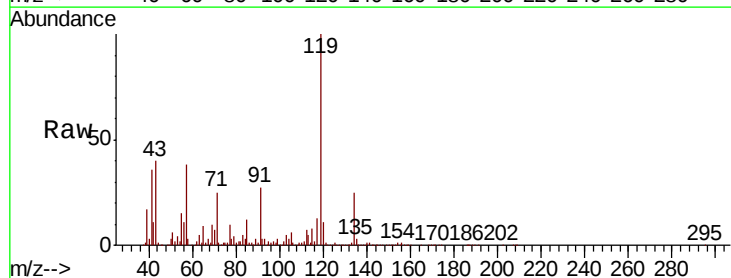
Tgt Ion:119 Resp: 340254

Ion Ratio Lower Upper

119 100

134 24.9 13.9 41.7

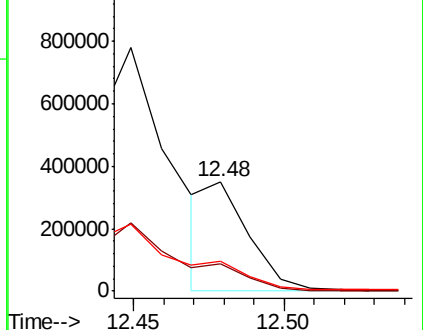
91 27.2 11.3 33.9



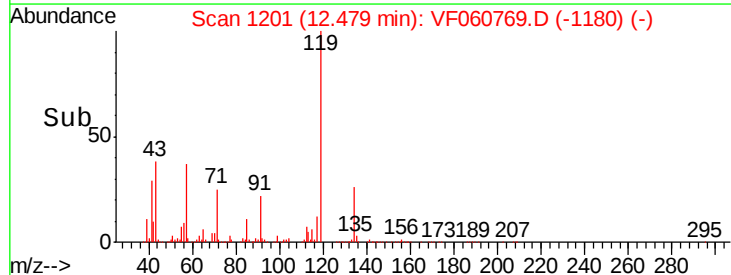
Abundance Ion 119.00 (118.70 to 119.70): V

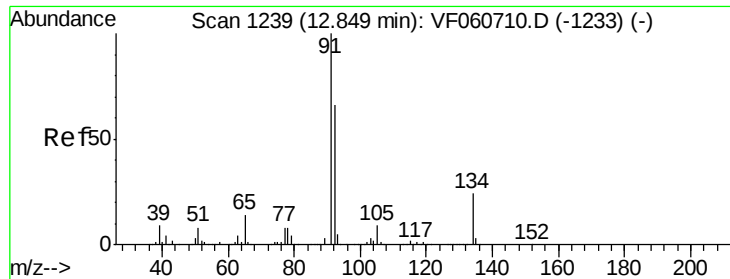
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





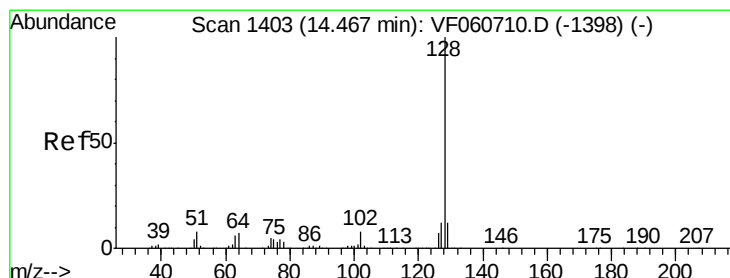
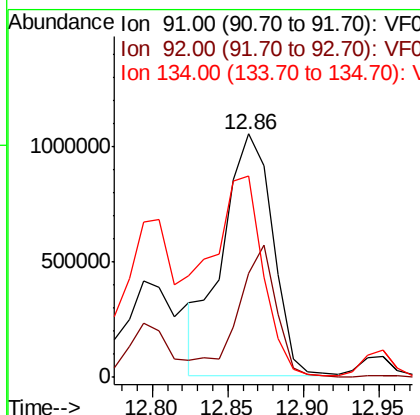
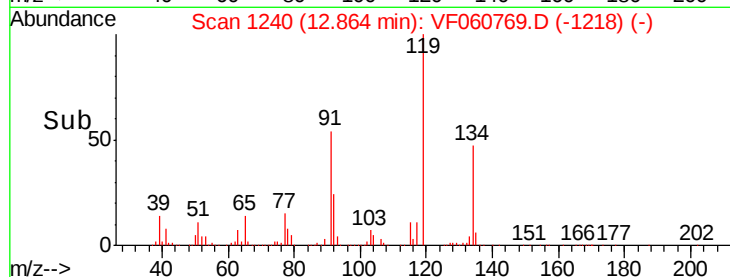
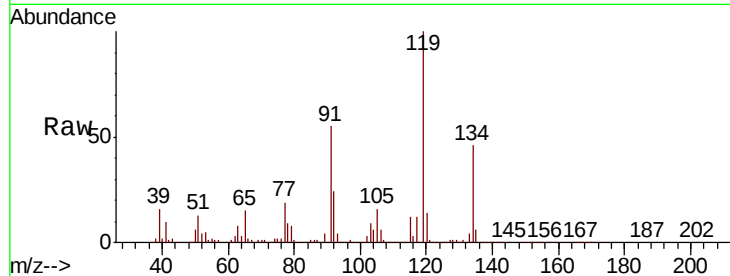
#89
n-Butylbenzene
Concen: 246.311 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. 0.01 min
Lab File: VF060769.D
Acq: 16 Nov 2018 17:27

Instrument :
MSVOA_F
ClientSampled :
T-2

Tot Ion	Ratio	Lower	Upper
91	100		
92	42.6	33.1	99.2
134	82.7	11.9	35.9#

Manual Integrations
APPROVED

apatel
11/19/2018 12:46:00 PM



#95
Naphthalene
Concen: 145.496 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VF060769.D
Acq: 16 Nov 2018 17:27

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.7	9.8	14.6#
129	14.6	9.3	13.9#

