

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121918\
 Data File : VF061085.D
 Acq On : 19 Dec 2018 15:17
 Operator : VA/AP
 Sample : J6347-20RE
 Misc : 2.43g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD001-0006-01RE

Manual Integrations
 APPROVED

apatel
 12/20/2018 10:29:27 AM

Quant Time: Dec 20 02:57:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	96587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	131503	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	51256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	9955	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	78628	63.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	126.58%	
35) Dibromofluoromethane	4.12	113	75747	71.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	143.82%	
50) Toluene-d8	7.56	98	103651	34.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	69.44%	
62) 4-Bromofluorobenzene	11.41	95	21130	15.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	30.70%	
Target Compounds						
					Qvalue	
16) Acetone	2.24	43	77151	310.661	ug/l	97
25) 2-Butanone	4.34	43	30390	75.453	ug/l #	82
31) Cyclohexane	3.69	56	81724	45.038	ug/l	96
39) Methylcyclohexane	5.45	83	303198	212.913	ug/l	97
40) Benzene	4.63	78	57029	16.707	ug/l	96
52) Toluene	7.63	92	10794	4.777	ug/l	95
65) Chlorobenzene	9.80	112	169520	160.094	ug/l	99
67) Ethyl Benzene	9.90	91	6776	3.513	ug/l	98
68) m/p-Xylenes	10.15	106	2177290	3207.143	ug/l	81
69) o-Xylene	10.72	106	350036	464.895	ug/l	87
73) Isopropylbenzene	11.12	105	39167	45.656	ug/l	96
78) n-propylbenzene	11.60	91	68712	79.062	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	135583	191.937	ug/l	95
84) 1,2,4-Trimethylbenzene	12.21	105	399886	567.675	ug/l	98
85) sec-Butylbenzene	12.31	105	15819	16.676	ug/l #	73
86) p-Isopropyltoluene	12.46	119	28971m	36.794	ug/l	
87) 1,3-Dichlorobenzene	12.47	146	39565	141.079	ug/l	93
88) 1,4-Dichlorobenzene	12.56	146	299307	882.646	ug/l	98
89) n-Butylbenzene	12.84	91	29264	34.290	ug/l #	58
95) Naphthalene	14.46	128	36200	84.670	ug/l	98

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

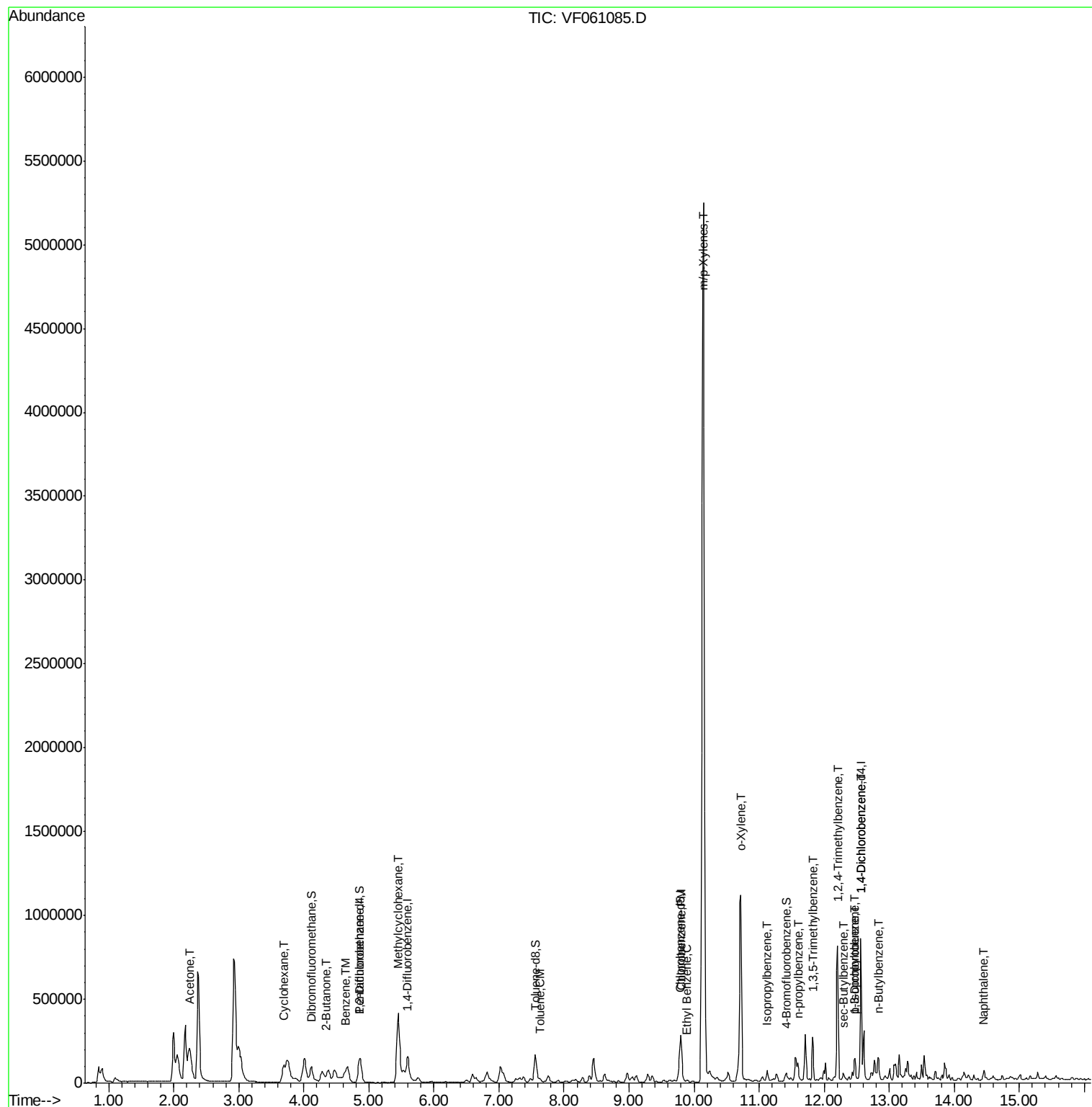
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121918\
Data File : VF061085.D
Acq On : 19 Dec 2018 15:17
Operator : VA/AP
Sample : J6347-20RE
Misc : 2.43g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

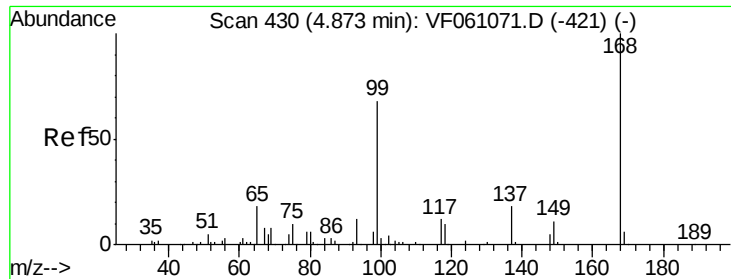
Instrument :
MSVOA_F
ClientSampleId :
P001-SD001-0006-01RE

Manual Integrations
APPROVED

apatel
12/20/2018 10:29:27 AM

Quant Time: Dec 20 02:57:24 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

P001-SD001-0006-01RE

Tgt Ion:168 Resp: 96587

Ion Ratio Lower Upper

168 100

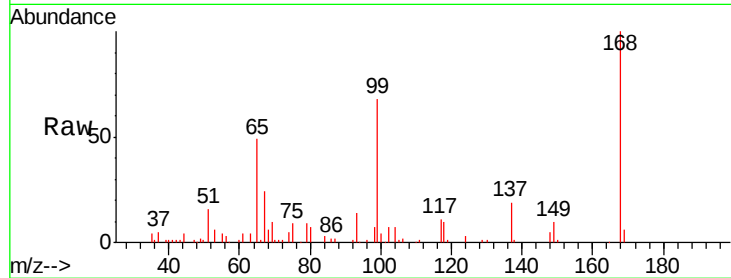
99 67.9 54.4 81.6

Manual Integrations

APPROVED

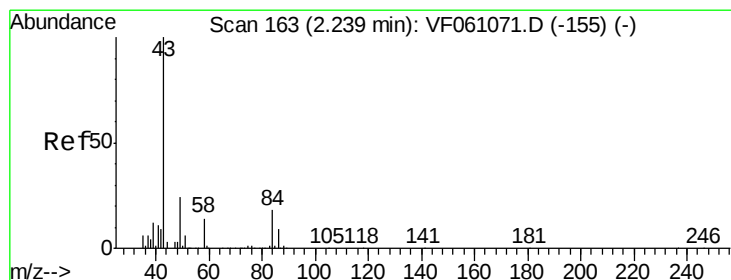
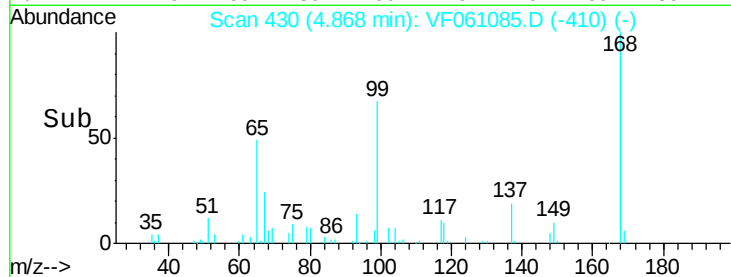
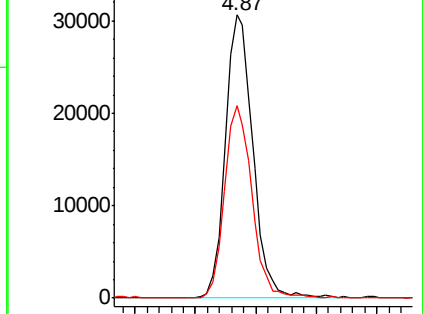
apatel

12/20/2018 10:29:27 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#16

Acetone

Concen: 310.661 ug/l

RT: 2.24 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061085.D

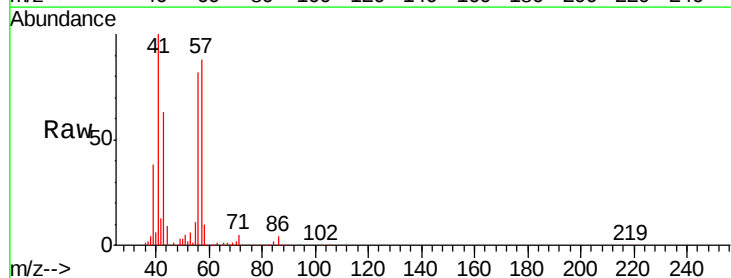
Acq: 19 Dec 2018 15:17

Tgt Ion: 43 Resp: 77151

Ion Ratio Lower Upper

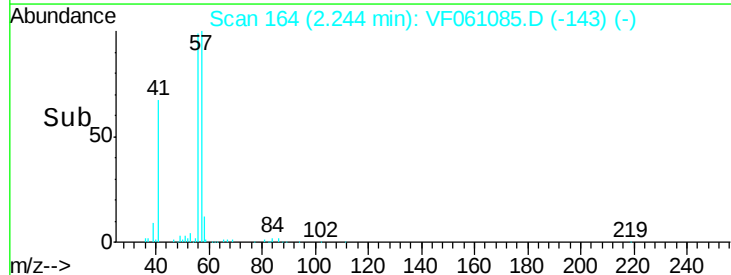
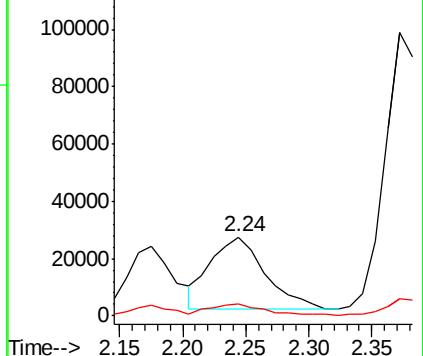
43 100

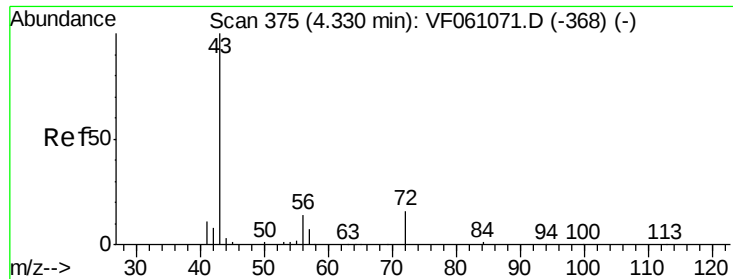
58 15.3 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#25

2-Butanone

Concen: 75.453 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

P001-SD001-0006-01RE

Tgt Ion: 43 Resp: 30390

Ion Ratio Lower Upper

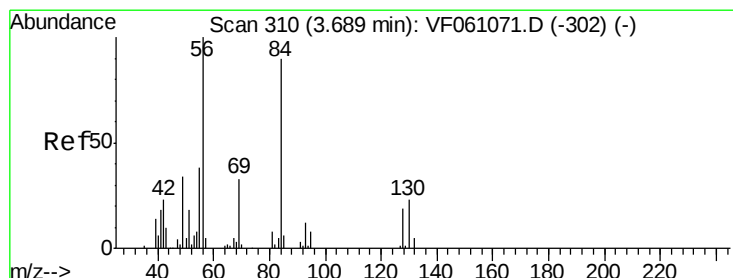
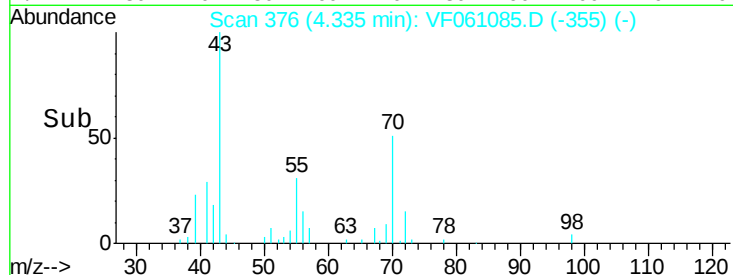
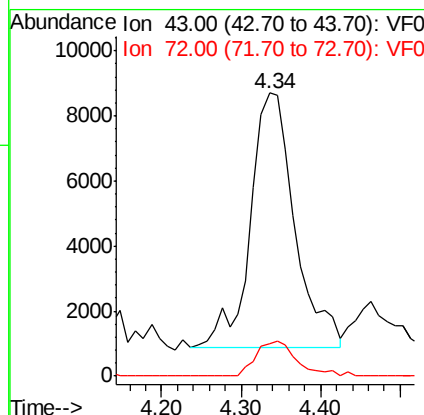
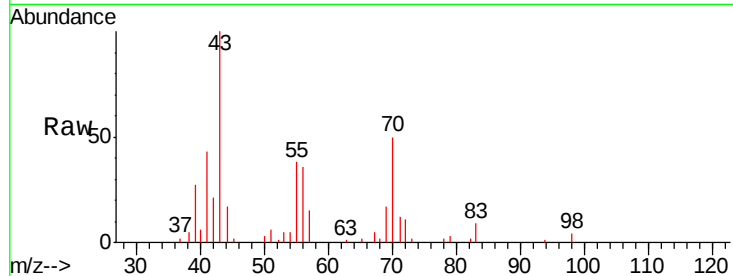
43 100

72 11.4 15.6 23.4#

Manual Integrations
APPROVED

apatel

12/20/2018 10:29:27 AM



#31

Cyclohexane

Concen: 45.038 ug/l

RT: 3.69 min Scan# 311

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

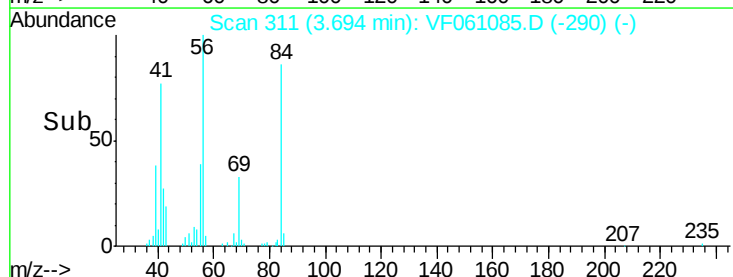
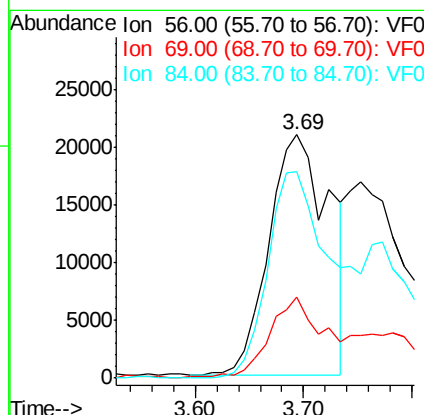
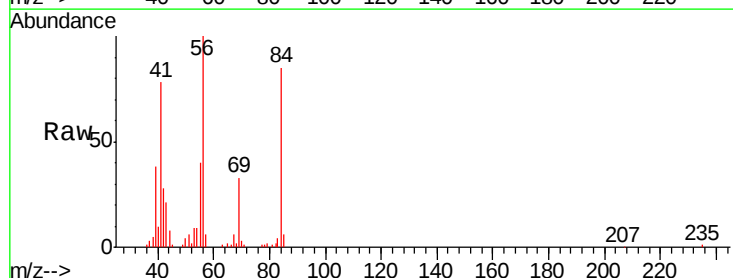
Tgt Ion: 56 Resp: 81724

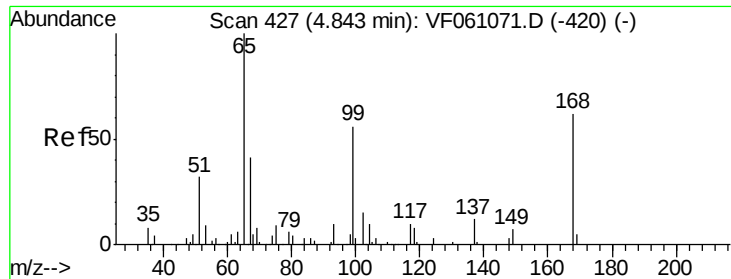
Ion Ratio Lower Upper

56 100

69 33.5 26.0 39.0

84 84.9 71.4 107.2





#33

1,2-Dichloroethane-d4

Concen: 63.294 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

P001-SD001-0006-01RE

Tgt Ion: 65 Resp: 78628

Ion Ratio Lower Upper

65 100

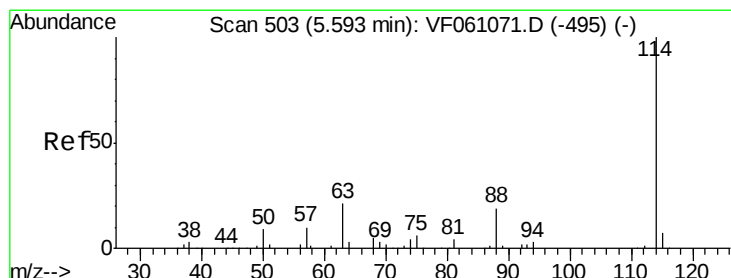
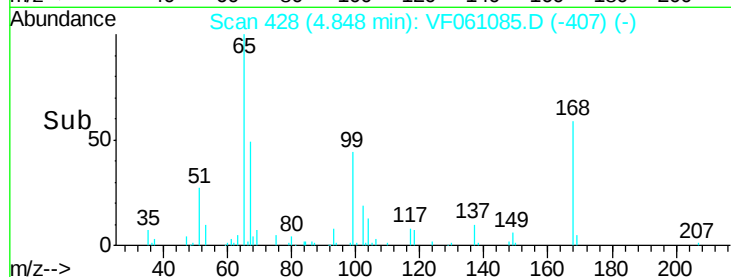
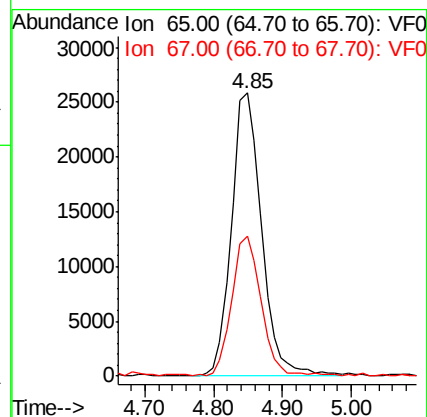
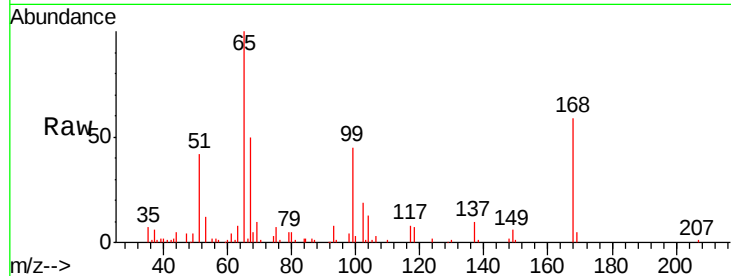
67 49.7 0.0 94.6

Manual Integrations

APPROVED

apatel

12/20/2018 10:29:27 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

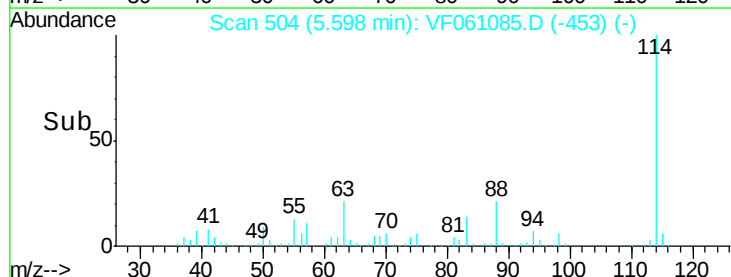
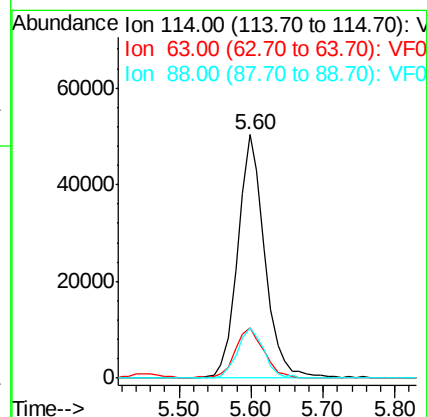
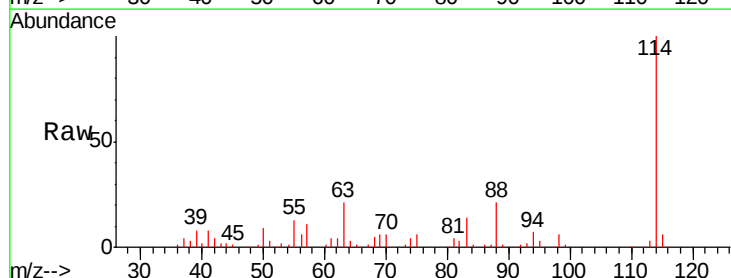
Tgt Ion: 114 Resp: 131503

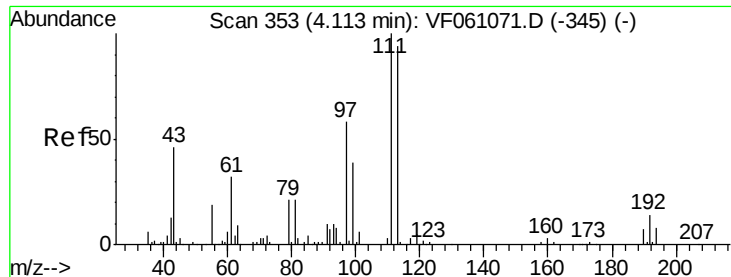
Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.6

88 20.9 0.0 38.0





#35

Dibromofluoromethane

Concen: 71.906 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061085.D

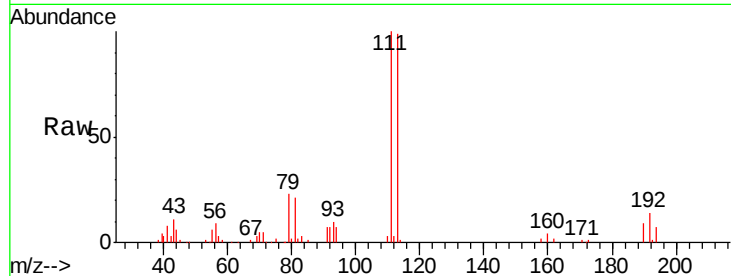
Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

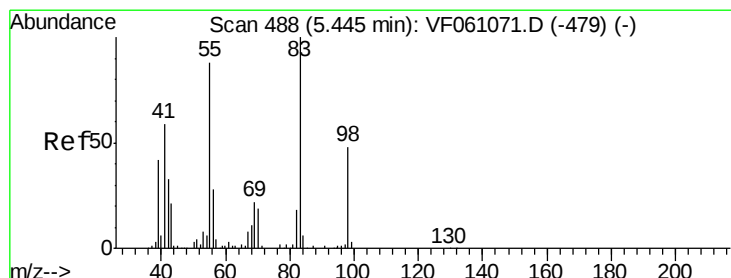
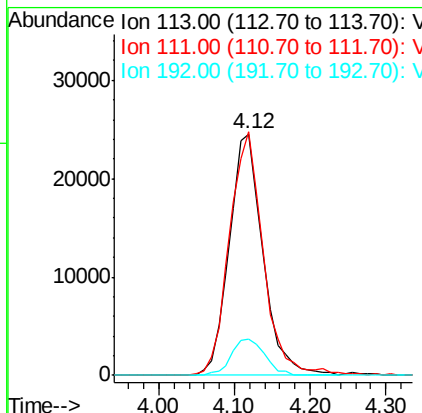
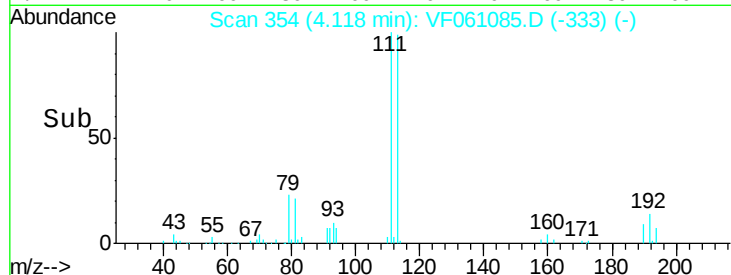
P001-SD001-0006-01RE



Tgt Ion:	113	Resp:	75747
Ion	Ratio	Lower	Upper
113	100		
111	100.8	85.2	127.8
192	15.2	12.8	19.2

Manual Integrations
APPROVED

apatel
12/20/2018 10:29:27 AM



#39

Methylcyclohexane

Concen: 212.913 ug/l

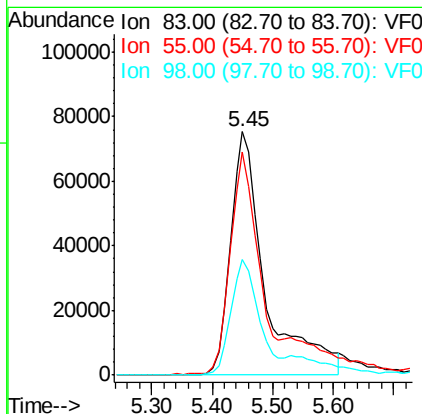
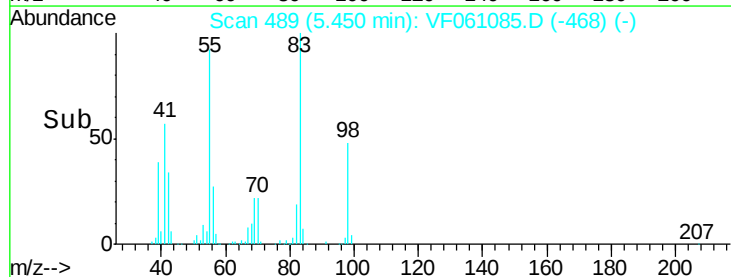
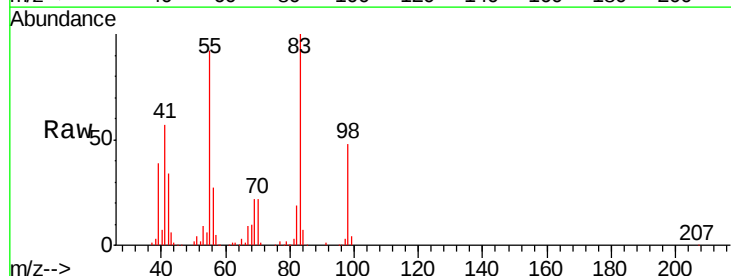
RT: 5.45 min Scan# 489

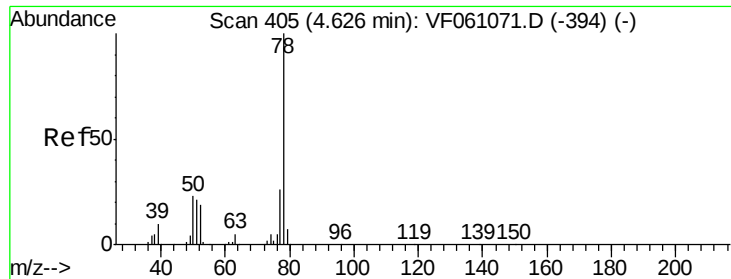
Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Tgt Ion:	83	Resp:	303198
Ion	Ratio	Lower	Upper
83	100		
55	91.7	70.6	105.8
98	47.6	38.5	57.7





#40

Benzene

Concen: 16.707 ug/l

RT: 4.63 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

P001-SD001-0006-01RE

Tgt Ion: 78 Resp: 57029

Ion Ratio Lower Upper

78 100

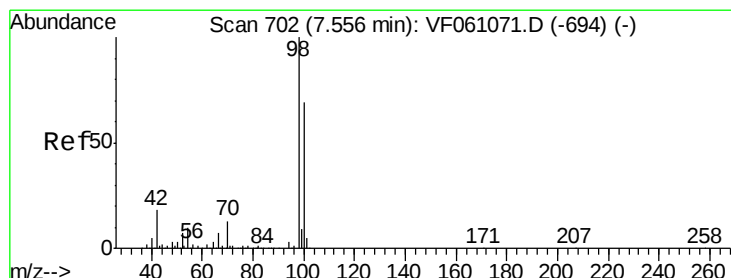
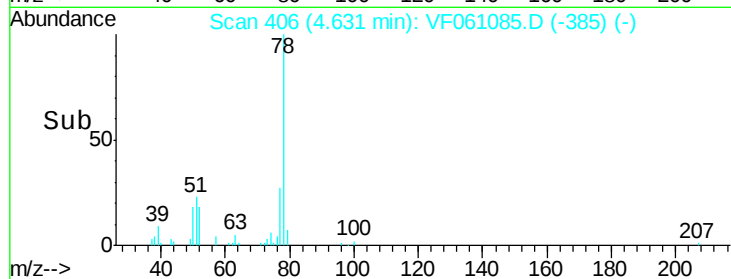
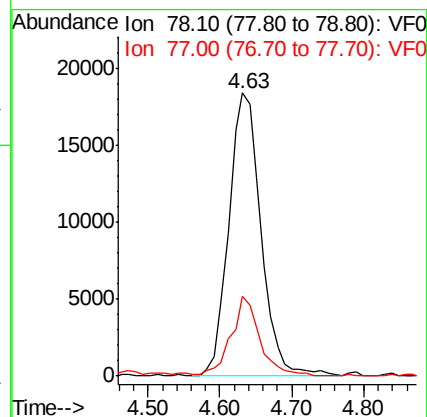
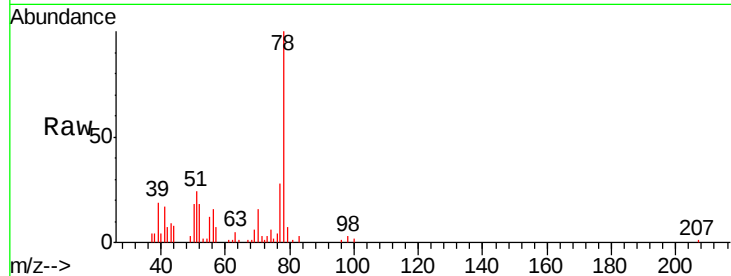
77 28.0 20.7 31.1

Manual Integrations

APPROVED

apatel

12/20/2018 10:29:27 AM



#50

Toluene-d8

Concen: 34.721 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF061085.D

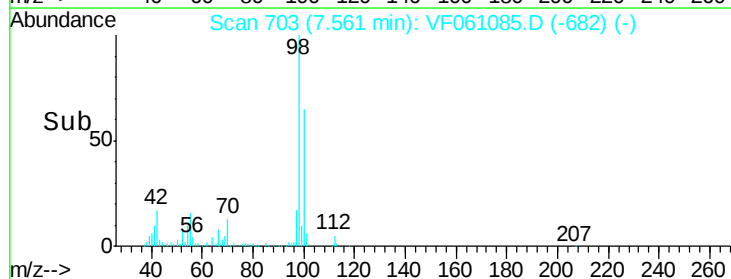
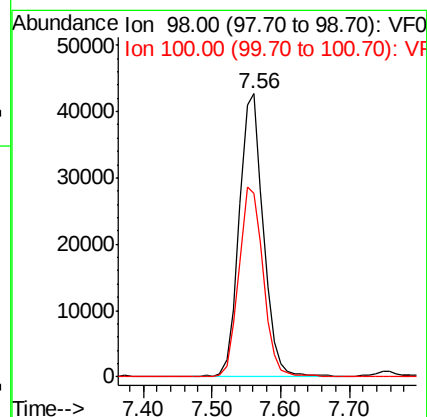
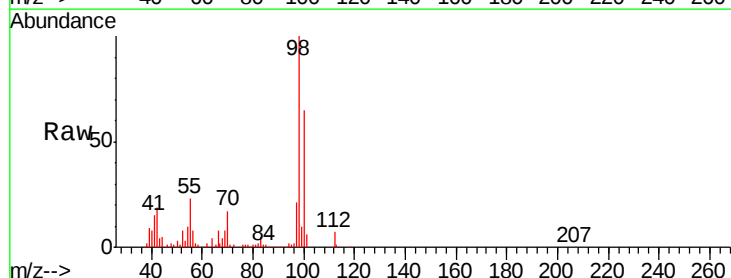
Acq: 19 Dec 2018 15:17

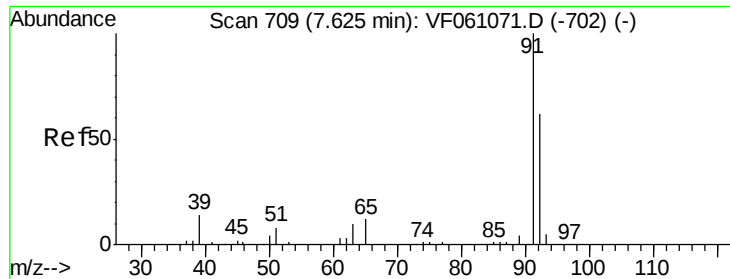
Tgt Ion: 98 Resp: 103651

Ion Ratio Lower Upper

98 100

100 65.0 55.3 82.9





#52

Toluene

Concen: 4.777 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

P001-SD001-0006-01RE

Tgt Ion: 92 Resp: 10794

Ion Ratio Lower Upper

92 100

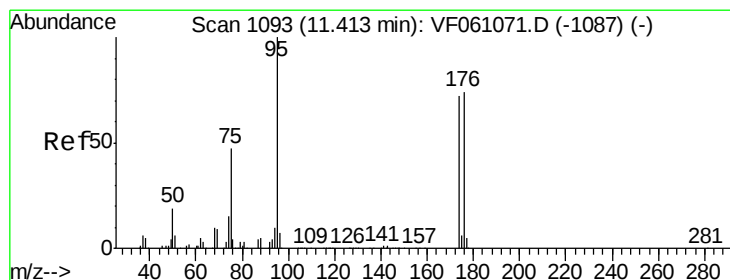
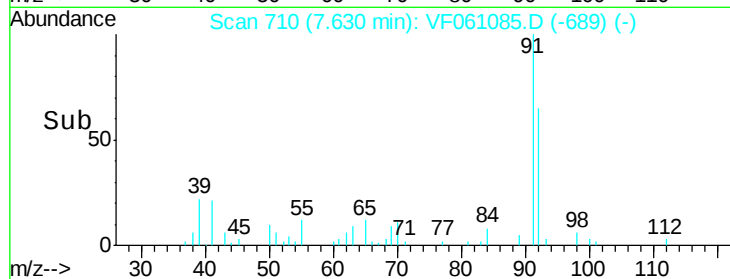
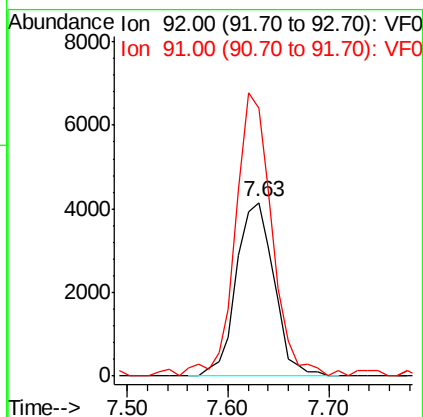
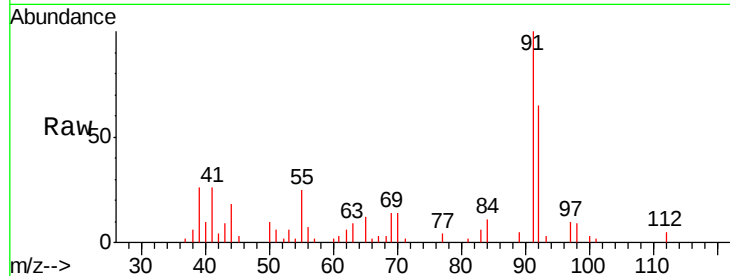
91 154.7 128.8 193.2

Manual Integrations

APPROVED

apatel

12/20/2018 10:29:27 AM



#62

4-Bromofluorobenzene

Concen: 15.353 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

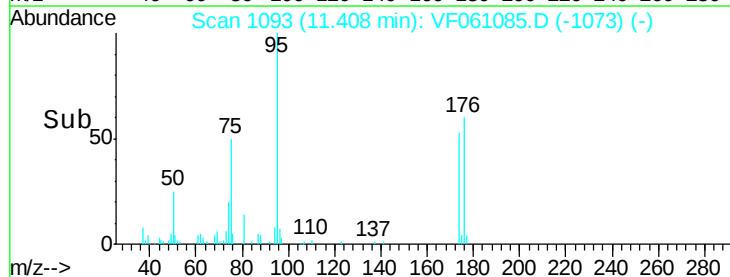
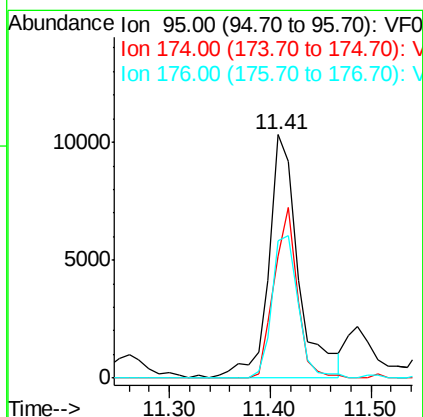
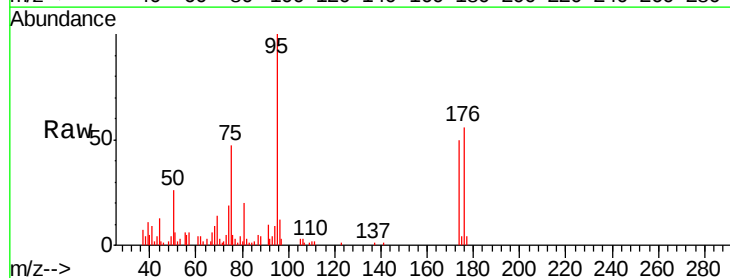
Tgt Ion: 95 Resp: 21130

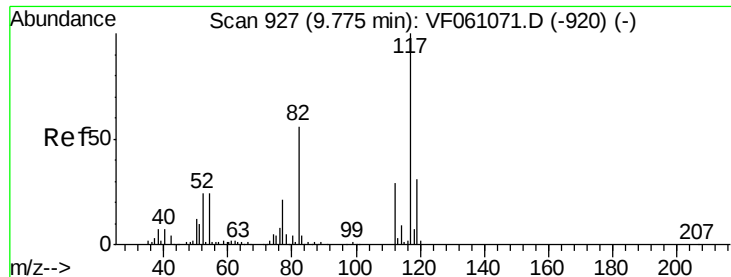
Ion Ratio Lower Upper

95 100

174 50.4 0.0 143.8

176 56.3 0.0 147.6





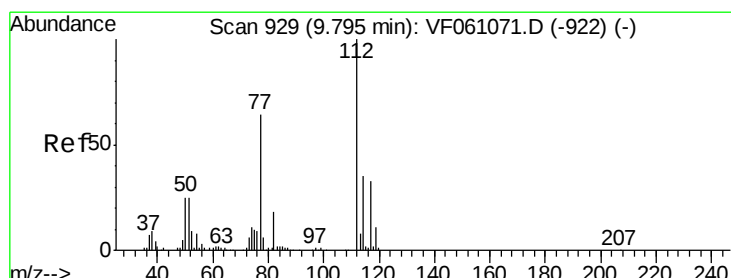
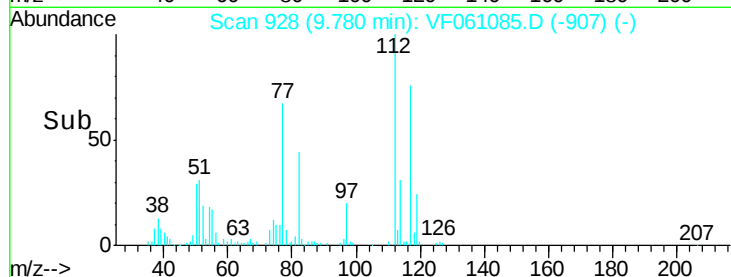
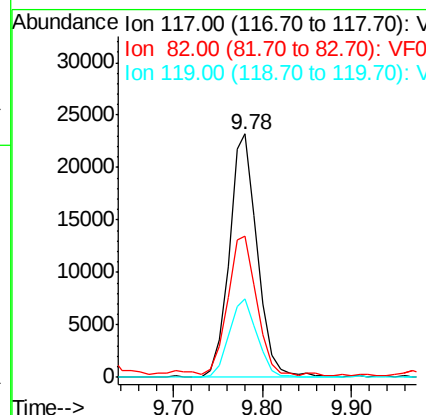
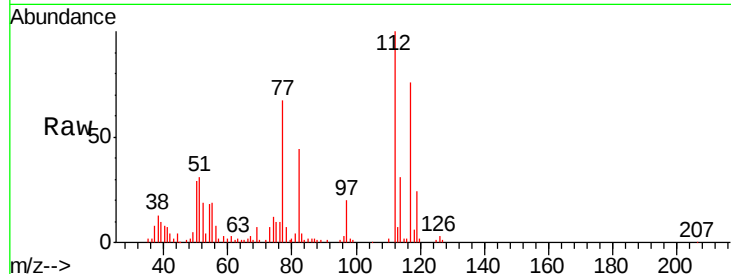
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Instrument :
MSVOA_F
ClientSampleId :
P001-SD001-0006-01RE

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.0	45.0	67.4
119	32.2	24.8	37.2

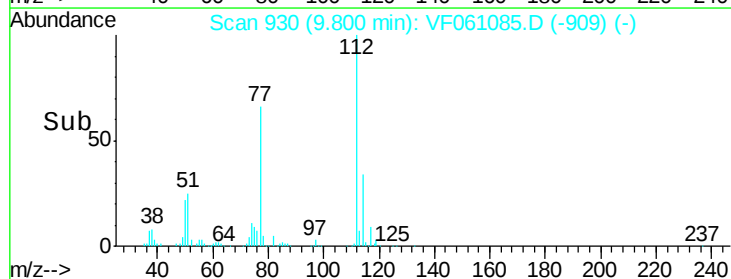
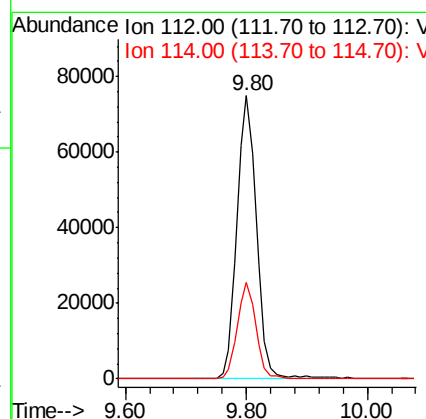
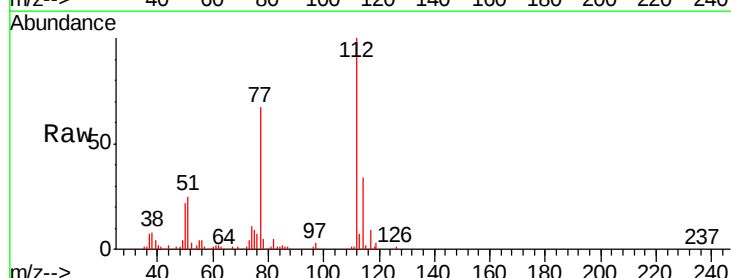
Manual Integrations
APPROVED

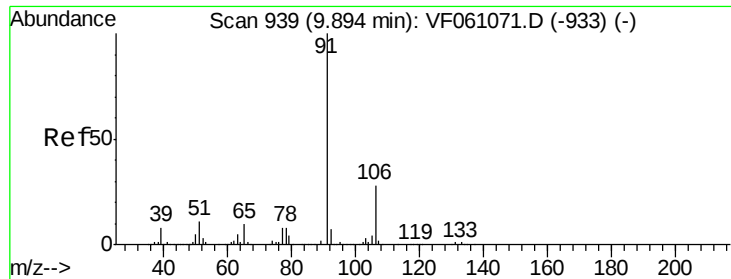
apatel
12/20/2018 10:29:27 AM



#65
Chlorobenzene
Concen: 160.094 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.9	27.8	41.6





#67

Ethyl Benzene

Concen: 3.513 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

P001-SD001-0006-01RE

Tgt Ion: 91 Resp: 6776

Ion Ratio Lower Upper

91 100

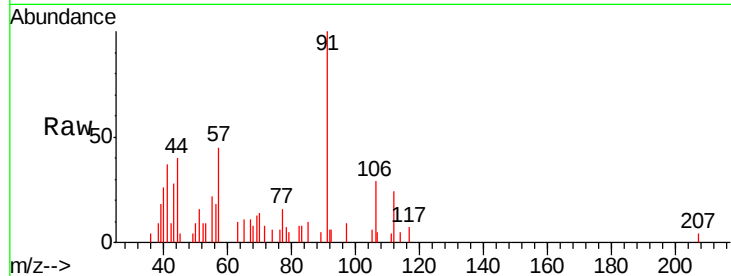
106 29.4 22.5 33.7

Manual Integrations

APPROVED

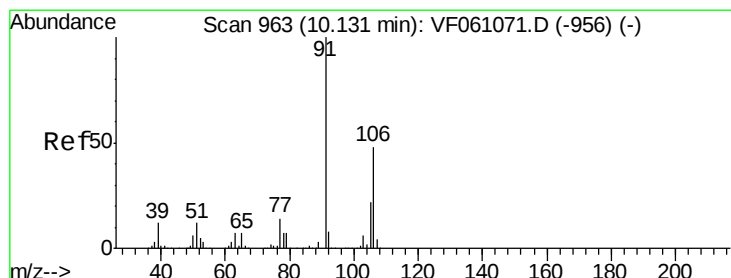
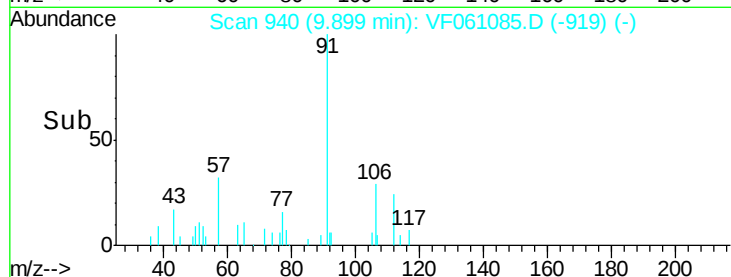
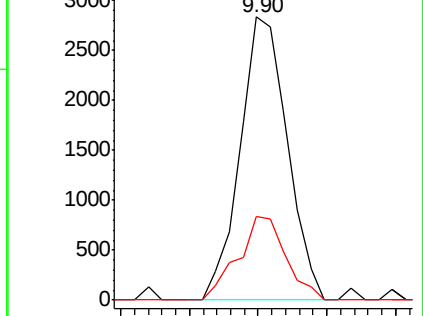
apatel

12/20/2018 10:29:27 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 3207.143 ug/l

RT: 10.15 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF061085.D

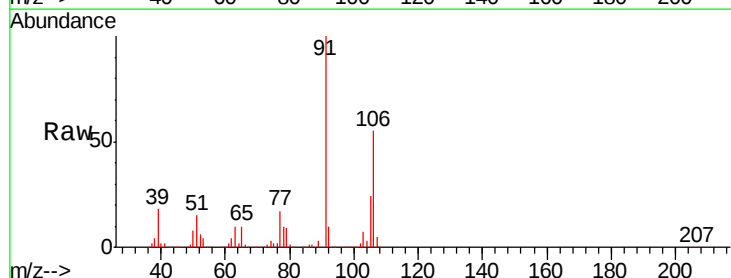
Acq: 19 Dec 2018 15:17

Tgt Ion: 106 Resp: 2177290

Ion Ratio Lower Upper

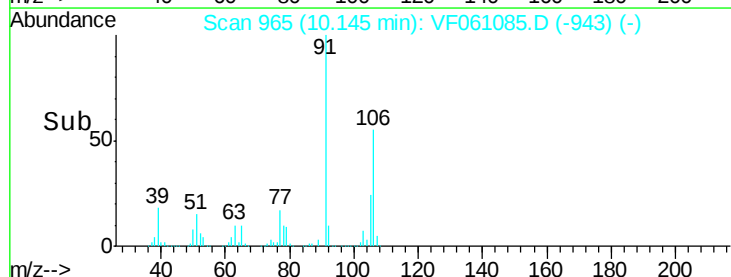
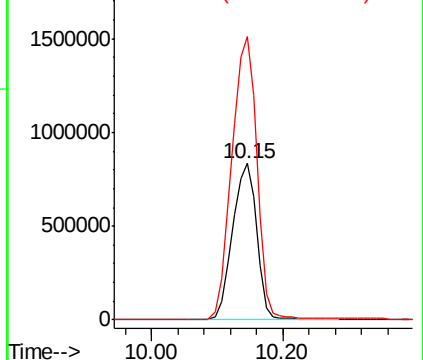
106 100

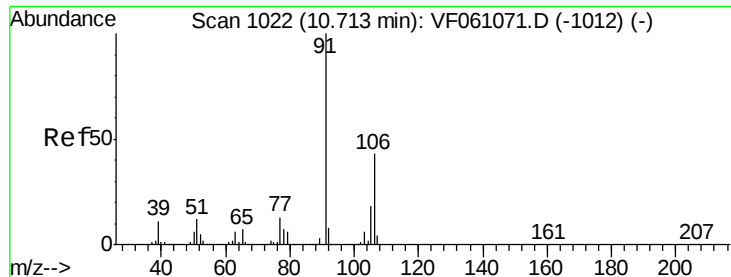
91 181.0 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





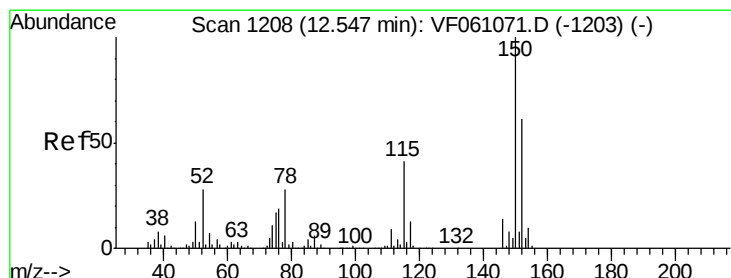
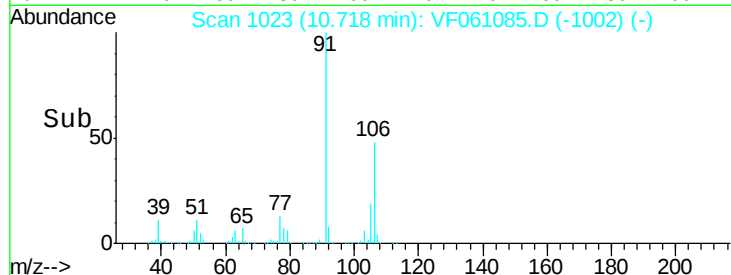
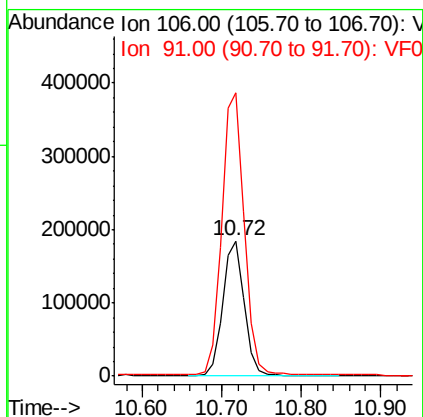
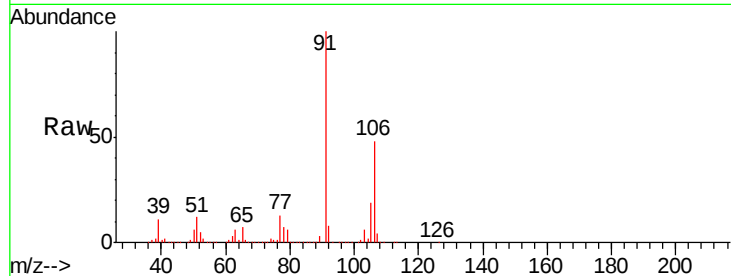
#69
o-Xylene
Concen: 464.895 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Instrument :
MSVOA_F
ClientSampleId :
P001-SD001-0006-01RE

Tgt Ion:106 Resp: 350036
Ion Ratio Lower Upper
106 100
91 209.4 115.9 347.7

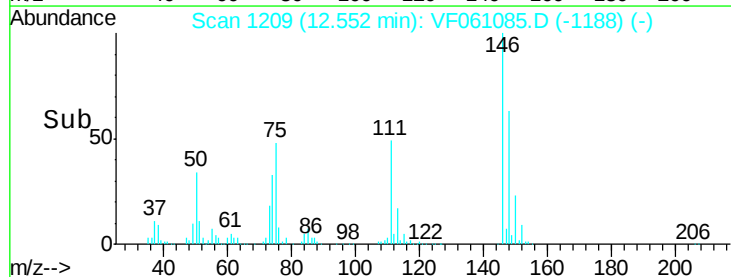
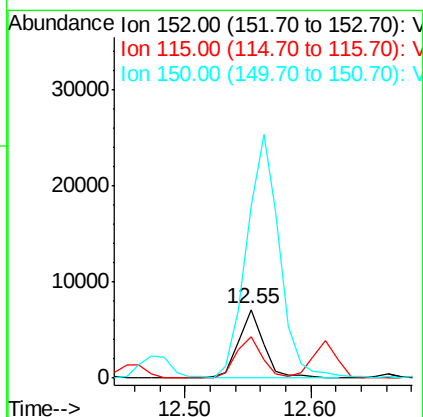
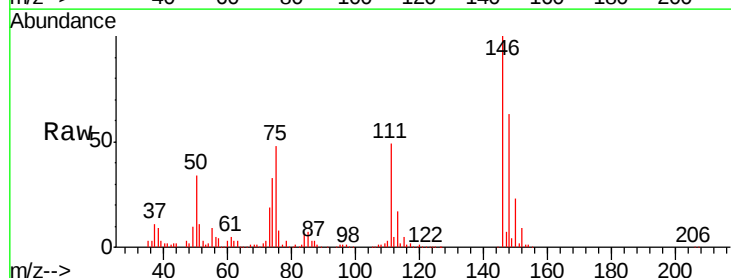
Manual Integrations
APPROVED

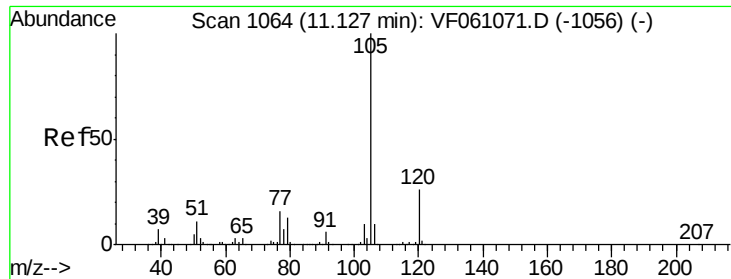
apatel
12/20/2018 10:29:27 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion:152 Resp: 9955
Ion Ratio Lower Upper
152 100
115 59.6 33.3 99.9
150 250.6 0.0 328.2





#73

Isopropylbenzene

Concen: 45.656 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

P001-SD001-0006-01RE

Tgt Ion: 105 Resp: 39167

Ion Ratio Lower Upper

105 100

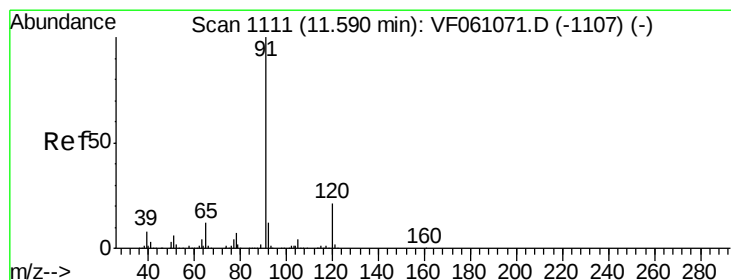
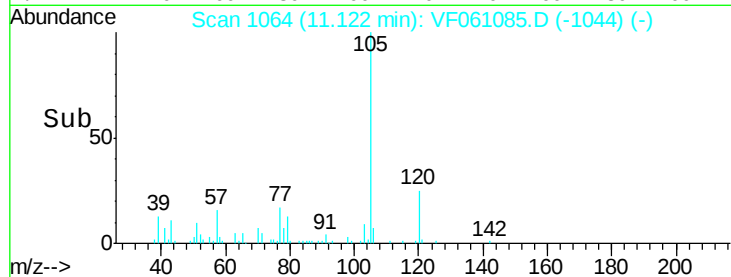
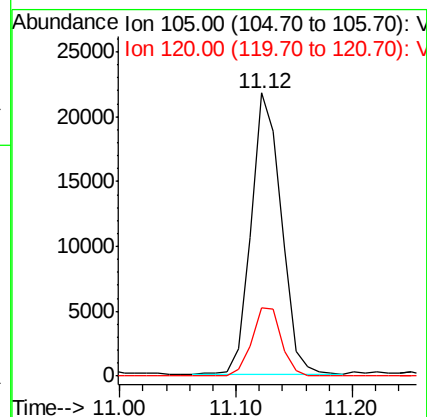
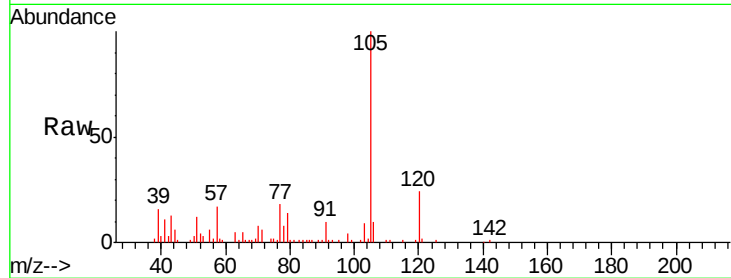
120 24.2 13.0 39.0

Manual Integrations

APPROVED

apatel

12/20/2018 10:29:27 AM



#78

n-propylbenzene

Concen: 79.062 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061085.D

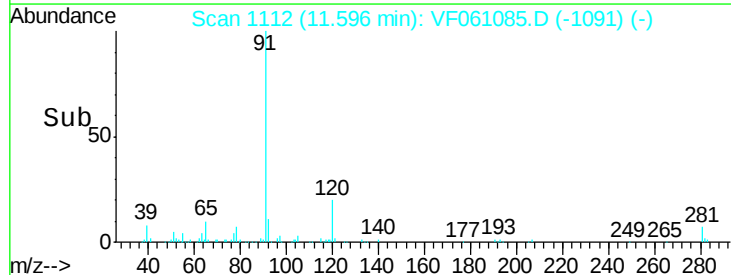
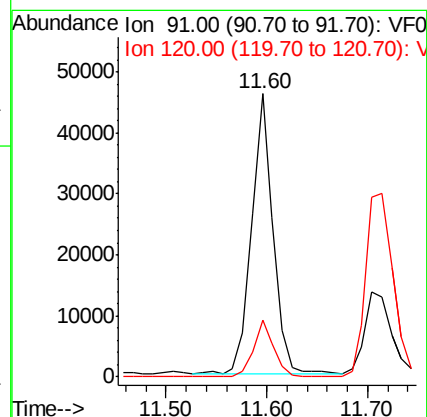
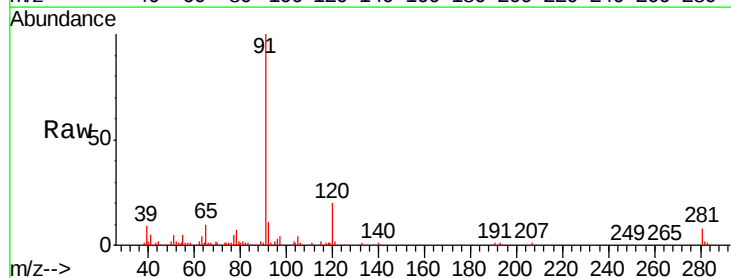
Acq: 19 Dec 2018 15:17

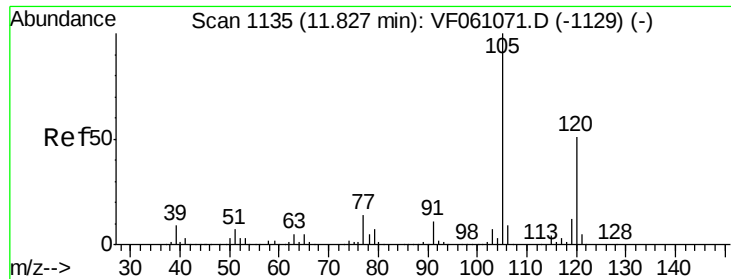
Tgt Ion: 91 Resp: 68712

Ion Ratio Lower Upper

91 100

120 19.9 10.4 31.2





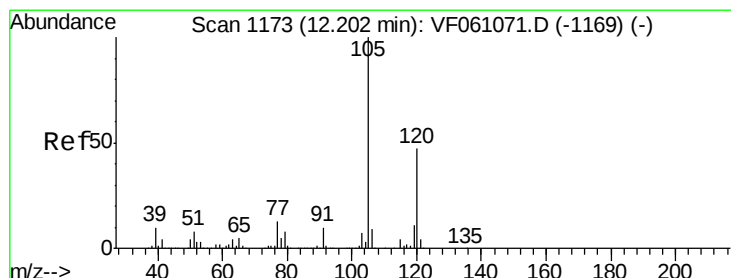
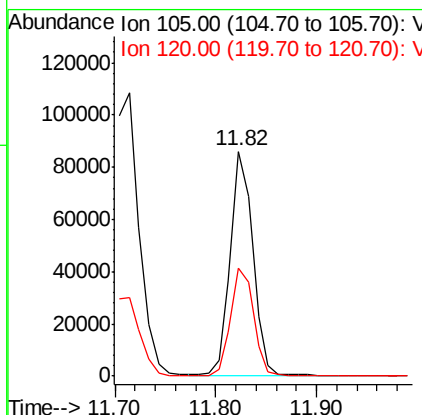
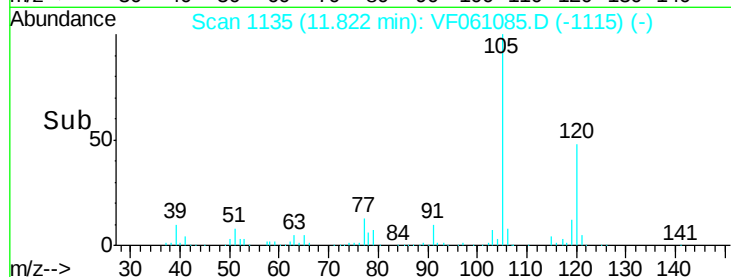
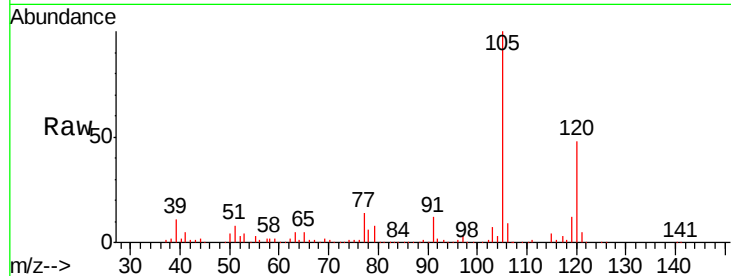
#80
 1,3,5-Trimethylbenzene
 Concen: 191.937 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.00 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD001-0006-01RE

Tgt Ion:105 Resp: 135583
 Ion Ratio Lower Upper
 105 100
 120 47.8 25.4 76.4

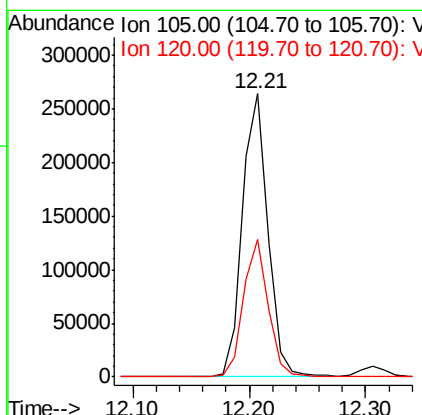
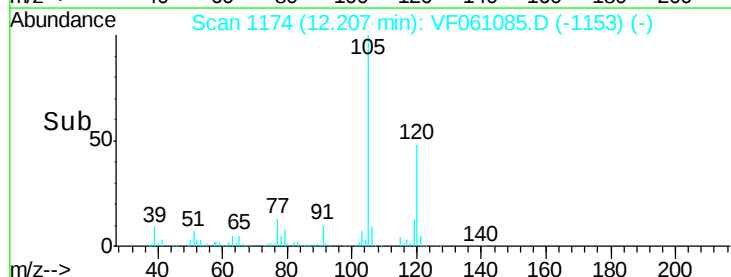
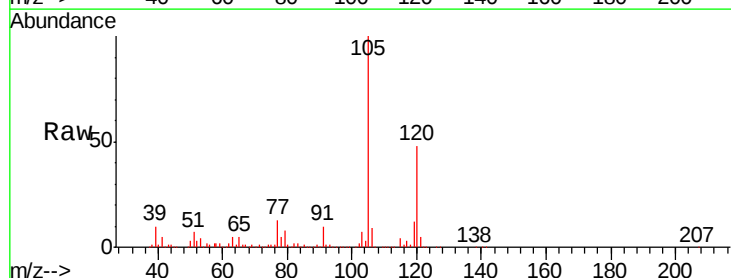
Manual Integrations
 APPROVED

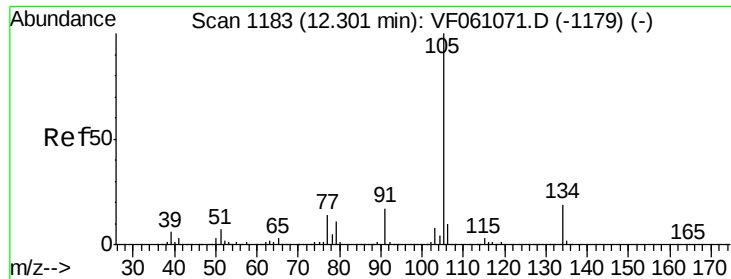
apatel
 12/20/2018 10:29:27 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 567.675 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.01 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

Tgt Ion:105 Resp: 399886
 Ion Ratio Lower Upper
 105 100
 120 48.4 23.6 71.0





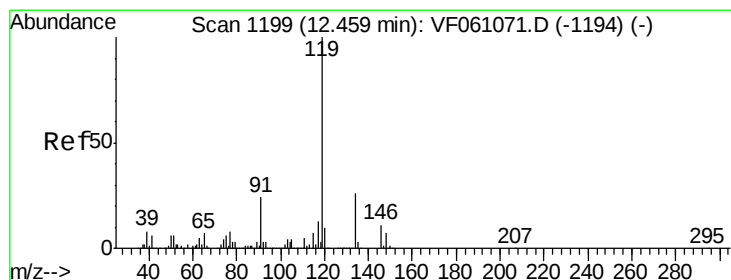
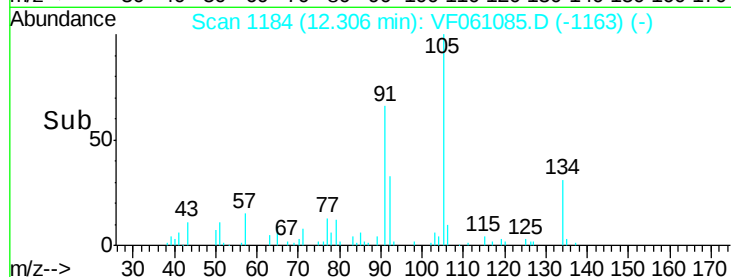
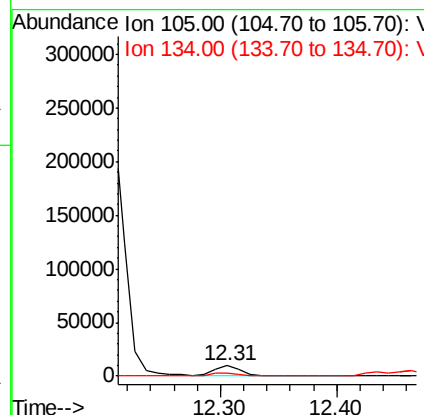
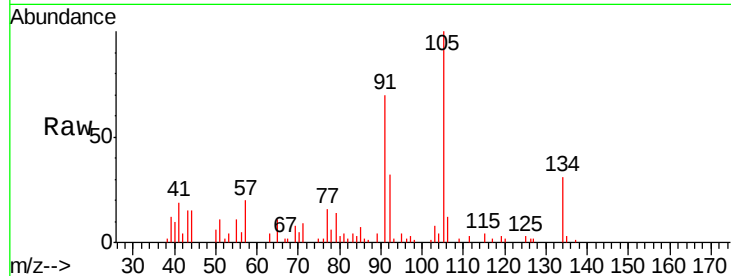
#85
 sec-Butylbenzene
 Concen: 16.676 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD001-0006-01RE

Tgt Ion:105 Resp: 15819
 Ion Ratio Lower Upper
 105 100
 134 30.7 9.4 28.2#

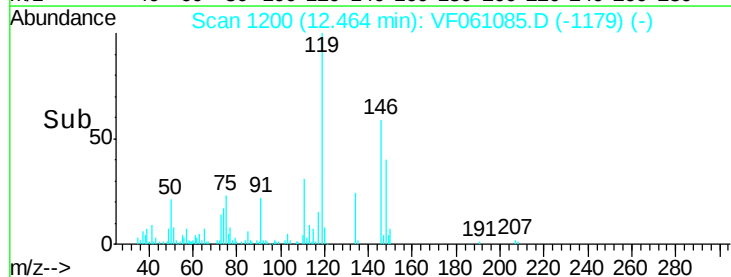
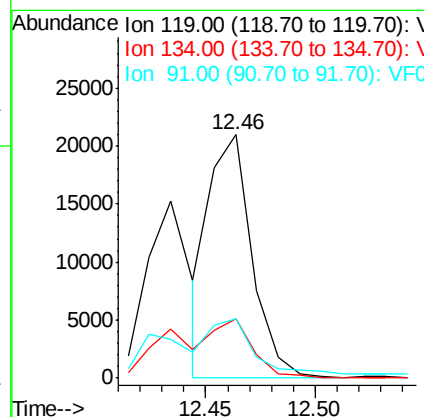
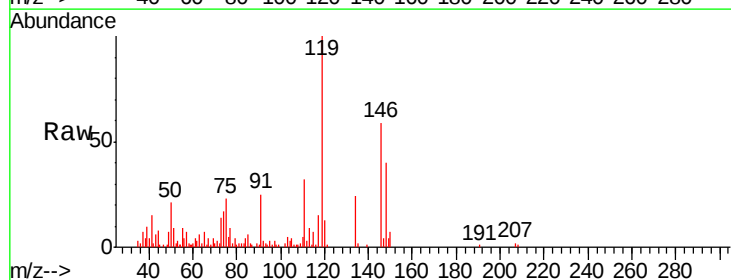
Manual Integrations
 APPROVED

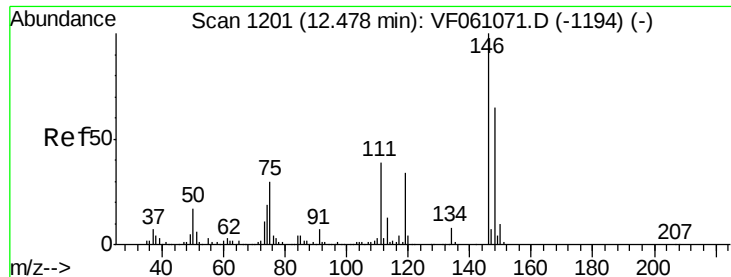
apatel
 12/20/2018 10:29:27 AM



#86
 p-Isopropyltoluene
 Concen: 36.794 ug/l m
 RT: 12.46 min Scan# 1200
 Delta R.T. 0.01 min
 Lab File: VF061085.D
 Acq: 19 Dec 2018 15:17

Tgt Ion:119 Resp: 28971
 Ion Ratio Lower Upper
 119 100
 134 24.1 12.8 38.4
 91 24.5 12.2 36.6





#87

1,3-Dichlorobenzene

Concen: 141.079 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Instrument :

MSVOA_F

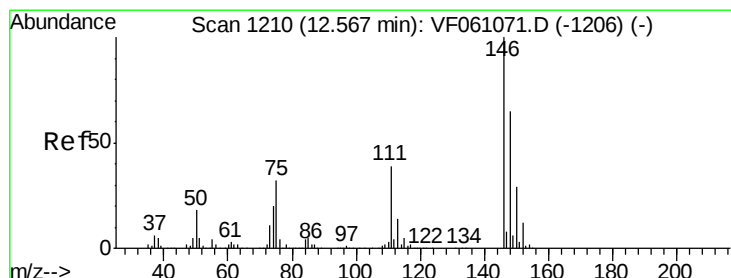
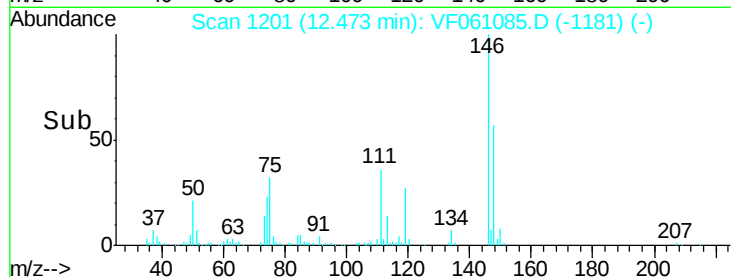
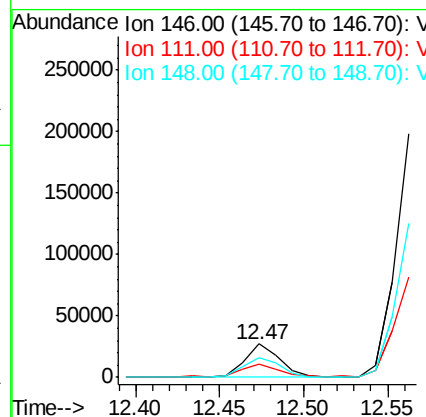
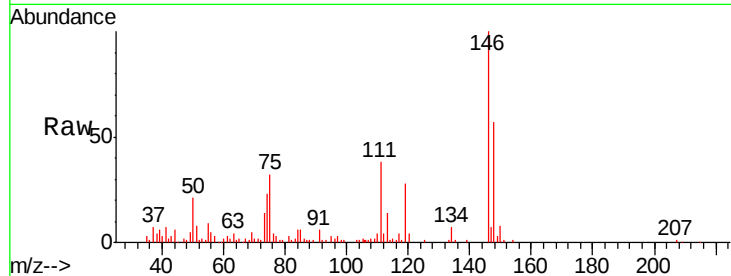
ClientSampleId :

P001-SD001-0006-01RE

Tgt Ion:	146	Resp:	39565
Ion Ratio	Lower	Upper	
146	100		
111	38.0	19.3	57.9
148	56.8	32.4	97.2

Manual Integrations
APPROVED

apatel
12/20/2018 10:29:27 AM



#88

1,4-Dichlorobenzene

Concen: 882.646 ug/l

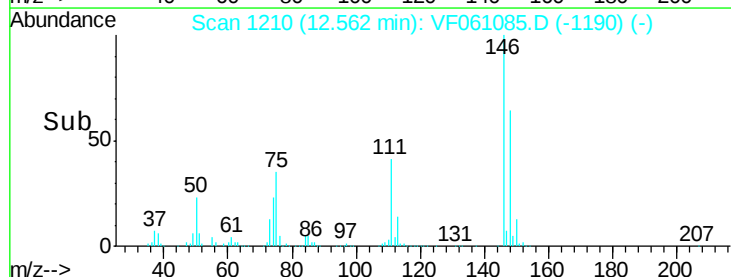
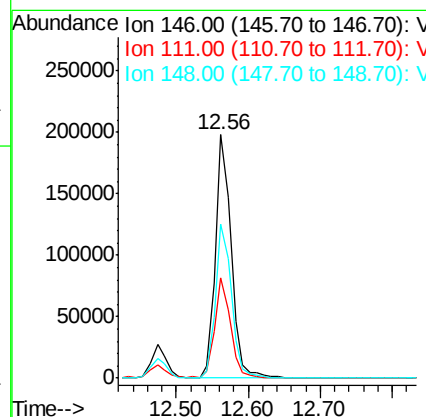
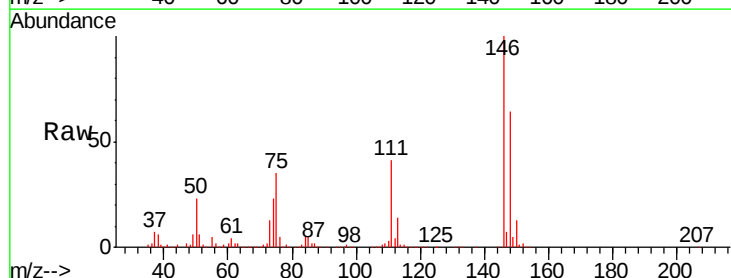
RT: 12.56 min Scan# 1210

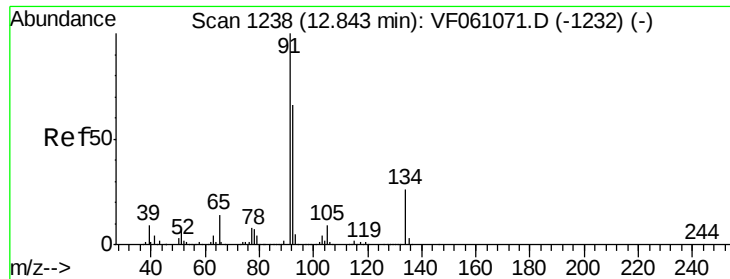
Delta R.T. -0.00 min

Lab File: VF061085.D

Acq: 19 Dec 2018 15:17

Tgt Ion:	146	Resp:	299307
Ion Ratio	Lower	Upper	
146	100		
111	41.4	19.4	58.4
148	63.5	32.4	97.0





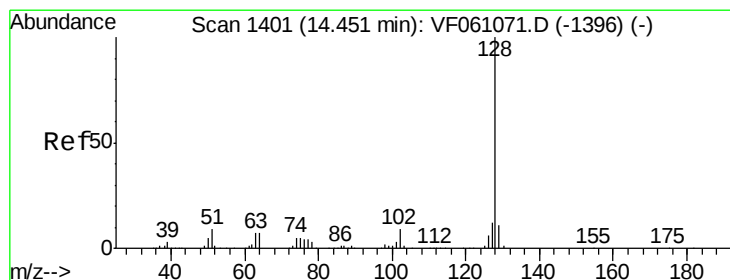
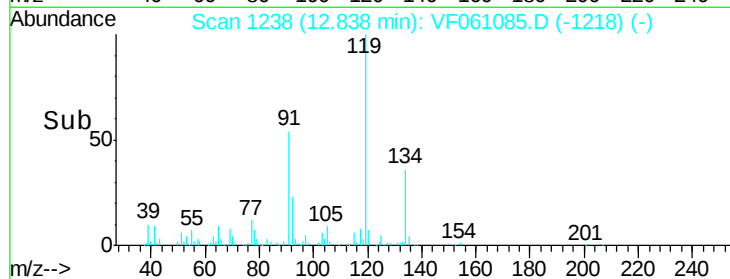
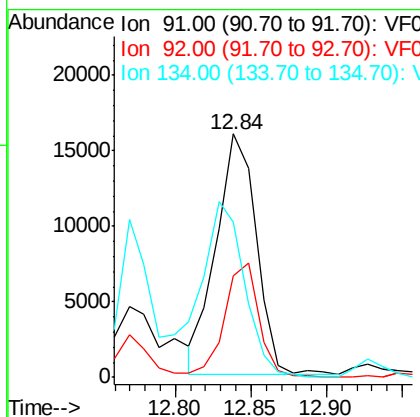
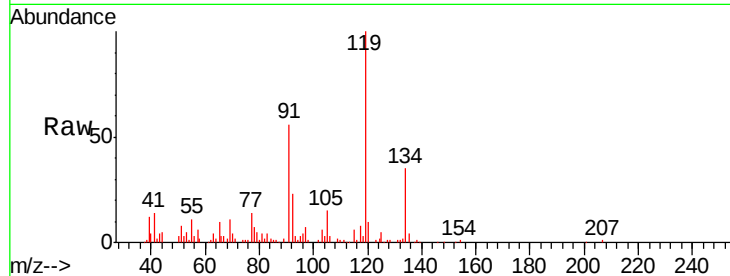
#89
n-Butylbenzene
Concen: 34.290 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Instrument :
MSVOA_F
ClientSampleId :
P001-SD001-0006-01RE

Tgt Ion	Ratio	Lower	Upper
91	100		
92	41.7	32.8	98.4
134	63.6	13.2	39.5#

Manual Integrations
APPROVED

apatel
12/20/2018 10:29:27 AM



#95
Naphthalene
Concen: 84.670 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061085.D
Acq: 19 Dec 2018 15:17

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.4	14.2
129	10.1	8.8	13.2

