

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061108.D
 Acq On : 20 Dec 2018 15:16
 Operator : VA/AP
 Sample : J6377-09
 Misc : 4.18g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD003-0006-01

Manual Integrations
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Quant Time: Dec 21 07:40:24 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	4.88	168	181624	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	283912	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.78	117	178777	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	43903	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	98609	42.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.42%	
35) Dibromofluoromethane	4.12	113	106669	46.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.80%	
50) Toluene-d8	7.56	98	208754	32.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	64.78%	
62) 4-Bromofluorobenzene	11.42	95	55324	18.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	37.24%	
Target Compounds						
						Qvalue
31) Cyclohexane	3.76	56	126910m	37.194	ug/l	
39) Methylcyclohexane	5.46	83	344102m	111.922	ug/l	
40) Benzene	4.64	78	26862	3.645	ug/l	92
52) Toluene	7.63	92	6419	1.316	ug/l #	62
65) Chlorobenzene	9.80	112	36500	9.883	ug/l #	85
67) Ethyl Benzene	9.91	91	11856	1.762	ug/l #	88
68) m/p-Xylenes	10.14	106	216052	91.242	ug/l	99
69) o-Xylene	10.72	106	14804	5.637	ug/l	97
73) Isopropylbenzene	11.13	105	17334	4.582	ug/l	86
78) n-propylbenzene	11.60	91	35937	6.886	ug/l	97
80) 1,3,5-Trimethylbenzene	11.82	105	35360	11.350	ug/l	94
84) 1,2,4-Trimethylbenzene	12.21	105	107009	34.445	ug/l	95
86) p-Isopropyltoluene	12.46	119	7331m	2.111	ug/l	
87) 1,3-Dichlorobenzene	12.48	146	44741	31.693	ug/l	92
88) 1,4-Dichlorobenzene	12.57	146	149985	100.292	ug/l	100
89) n-Butylbenzene	12.85	91	5315m	1.530	ug/l	
91) 1,2-Dichlorobenzene	12.95	146	2293	1.575	ug/l	93
95) Naphthalene	14.46	128	8773	4.653	ug/l	96

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

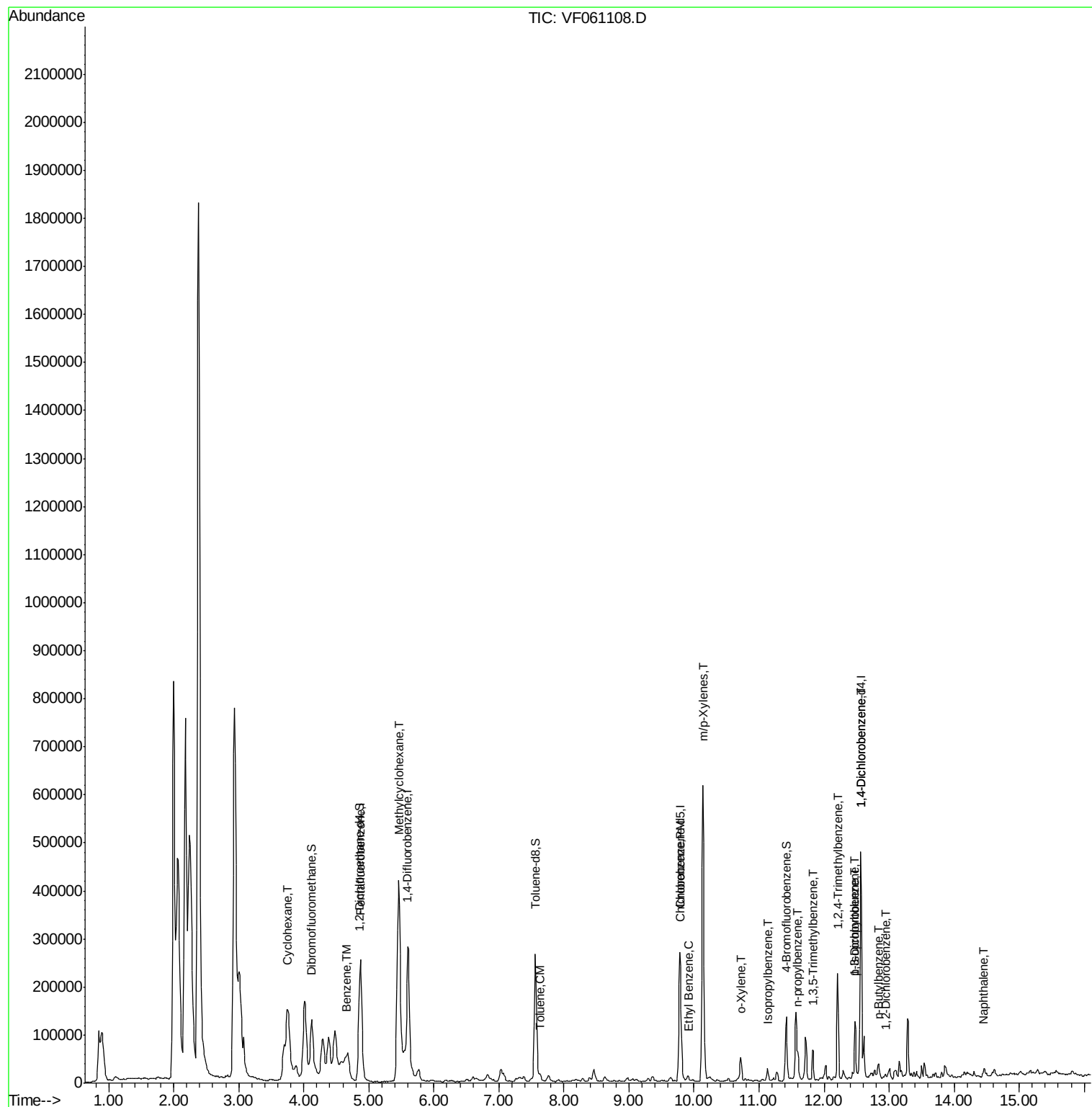
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF122018\
Data File : VF061108.D
Acq On : 20 Dec 2018 15:16
Operator : VA/AP
Sample : J6377-09
Misc : 4.18g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

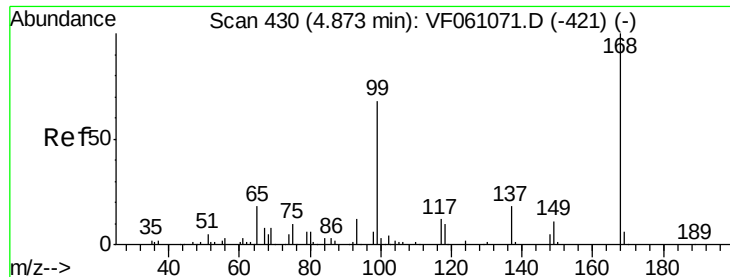
Instrument :
MSVOA_F
ClientSampleId :
P001-SD003-0006-01

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Quant Time: Dec 21 07:40:24 2018
Quant Method : Z:\V0ASRV\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: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061108.D

Acq: 20 Dec 2018 15:16

Instrument :

MSVOA_F

ClientSampleId :

P001-SD003-0006-01

Tot Ion:168 Resp: 181624

Ion Ratio Lower Upper

168 100

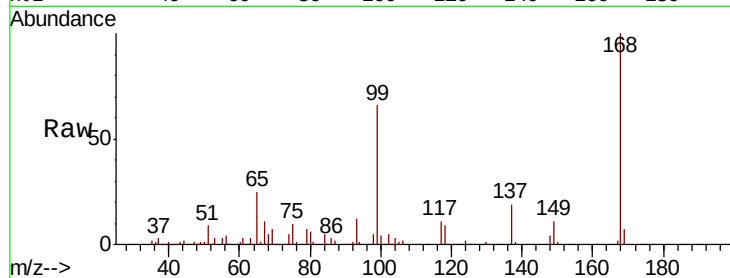
99 65.8 54.4 81.6

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

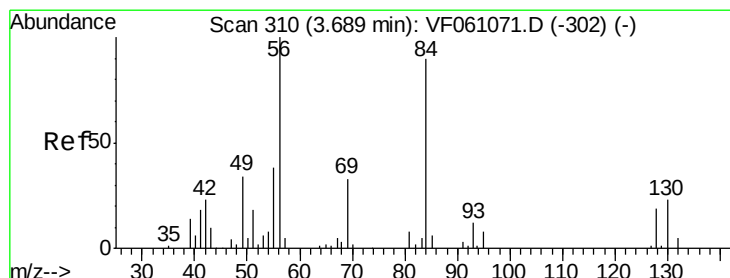
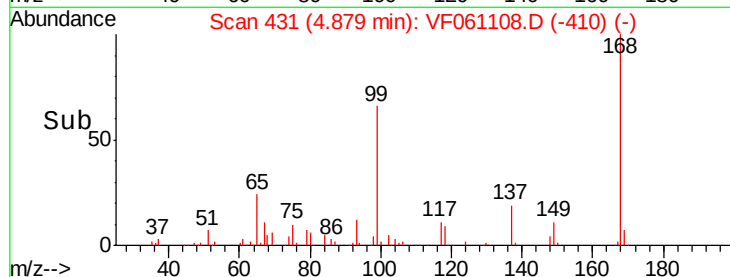
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#31

Cyclohexane

Concen: 37.194 ug/l m

RT: 3.76 min Scan# 318

Delta R.T. 0.07 min

Lab File: VF061108.D

Acq: 20 Dec 2018 15:16

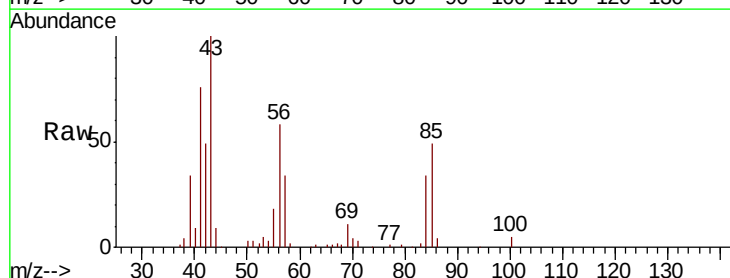
Tgt Ion: 56 Resp: 126910

Ion Ratio Lower Upper

56 100

69 19.2 26.0 39.0#

84 58.1 71.4 107.2#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0

20000

15000

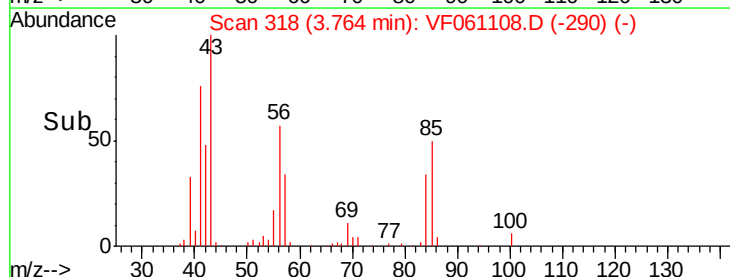
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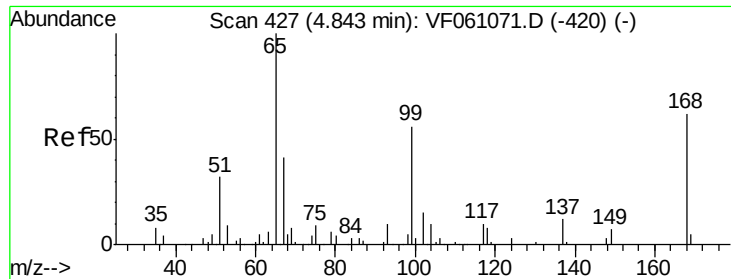
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0

Time-->

3.60 3.70 3.80 3.90





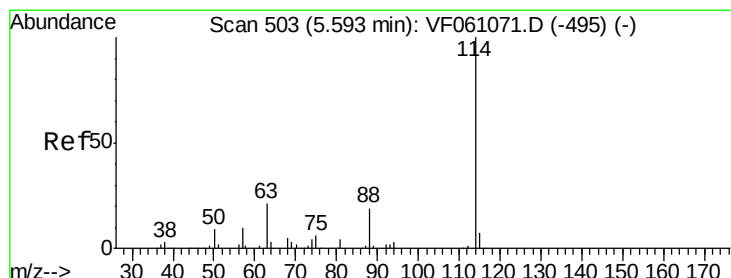
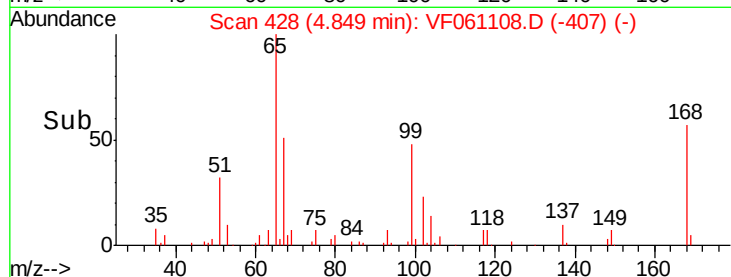
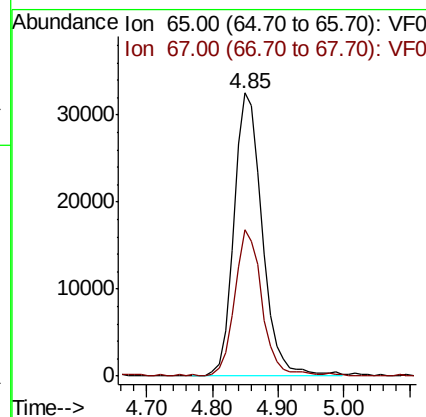
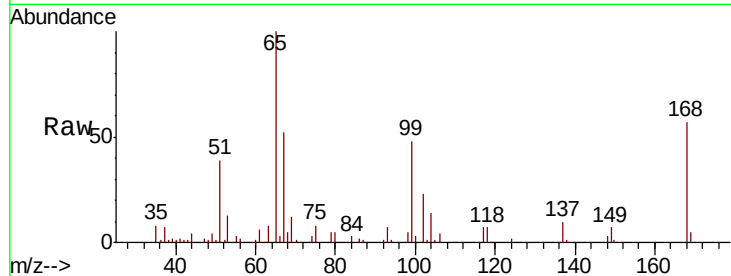
#33
 1,2-Dichloroethane-d4
 Concen: 42.213 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.01 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD003-0006-01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	98609		
67	51.9	0.0	94.6	

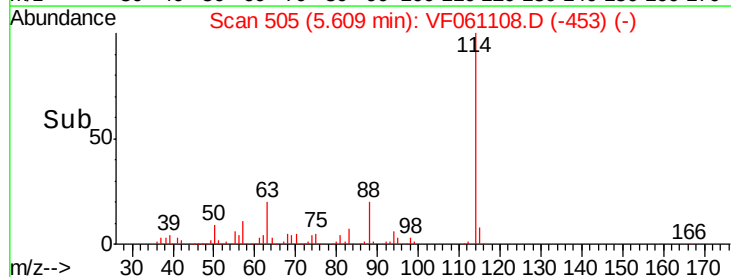
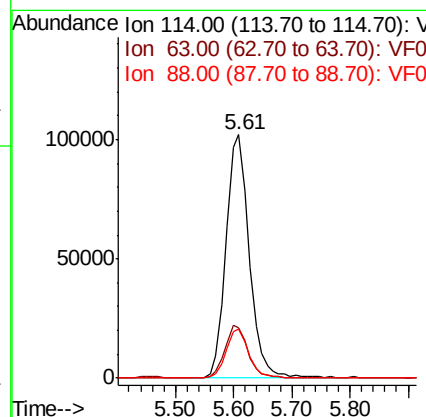
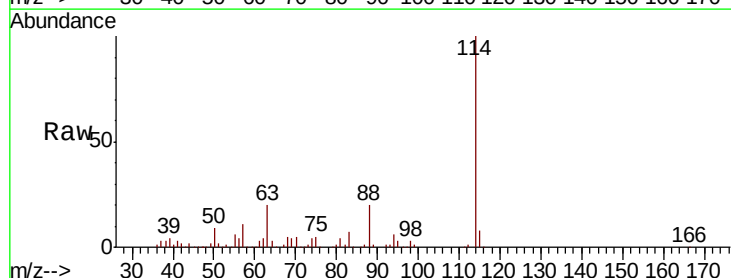
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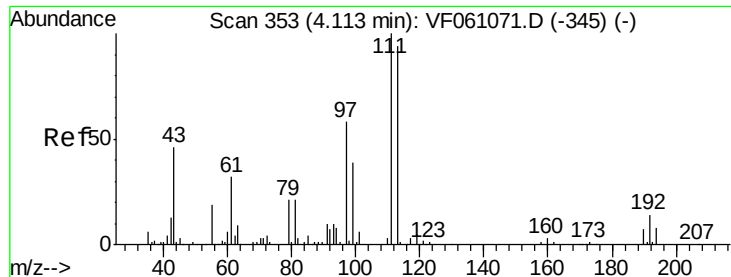
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.02 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	283912		
63	20.5	0.0	41.6	
88	19.9	0.0	38.0	





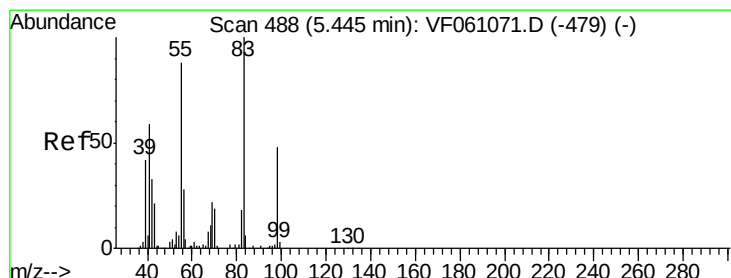
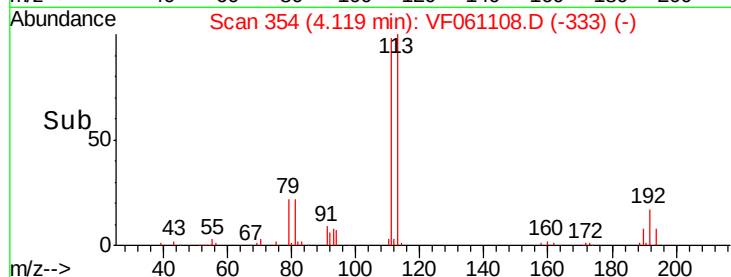
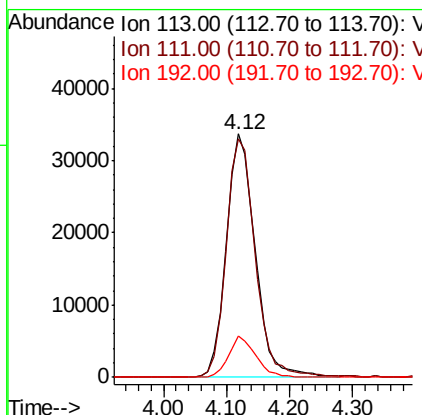
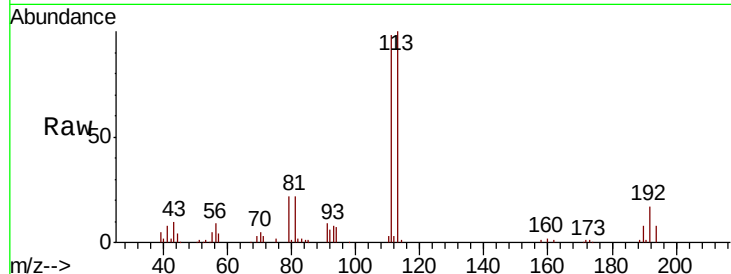
#35
 Dibromofluoromethane
 Concen: 46.902 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD003-0006-01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	106669		
111	98.0		85.2	127.8
192	16.8		12.8	19.2

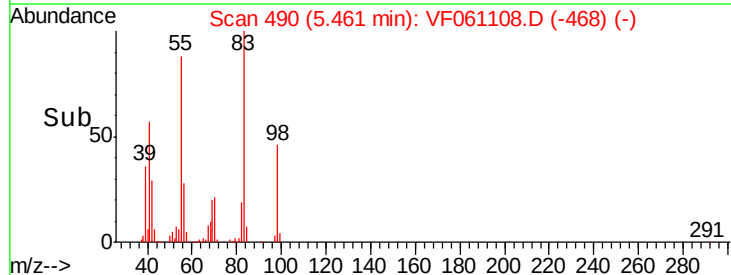
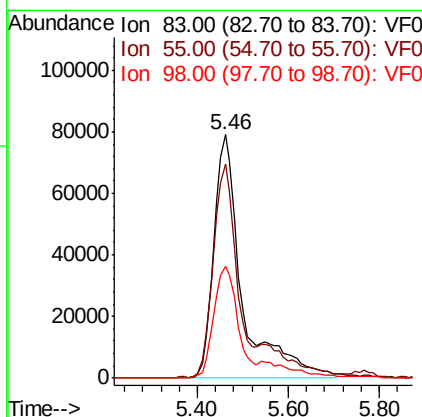
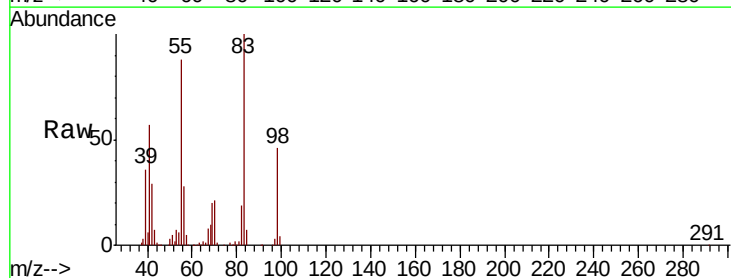
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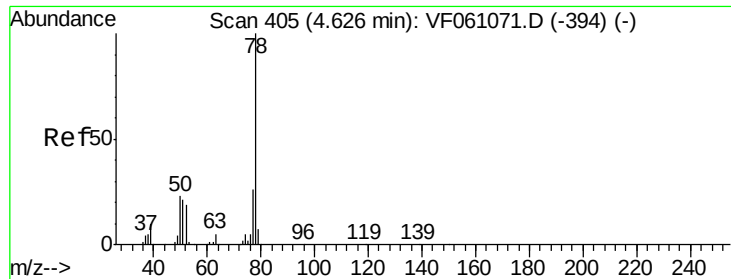
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#39
 Methylcyclohexane
 Concen: 111.922 ug/l m
 RT: 5.46 min Scan# 490
 Delta R.T. 0.02 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	344102		
55	88.0		70.6	105.8
98	45.7		38.5	57.7





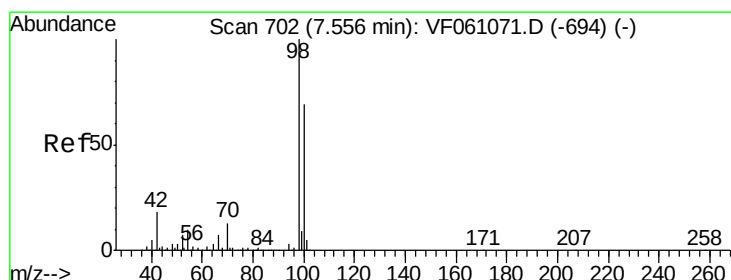
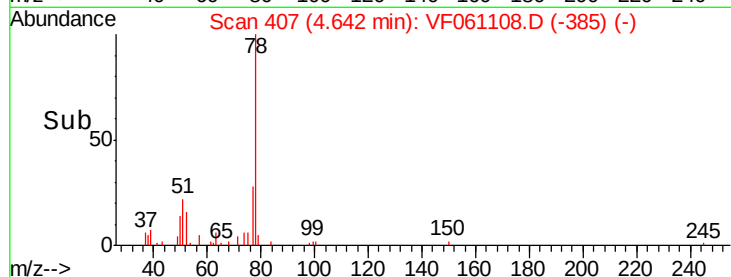
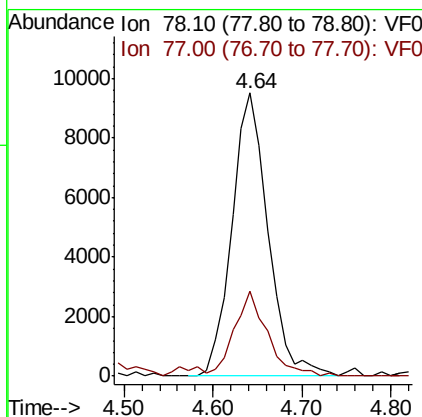
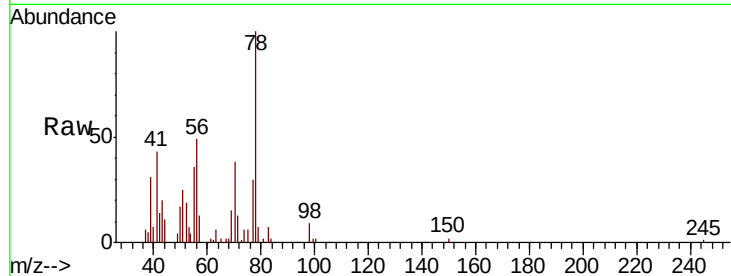
#40
Benzene
Concen: 3.645 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.02 min
Lab File: VF061108.D
Acq: 20 Dec 2018 15:16

Instrument :
MSVOA_F
ClientSampleId :
P001-SD003-0006-01

Tot Ion: 78 Resp: 26862
Ion Ratio Lower Upper
78 100
77 30.1 20.7 31.1

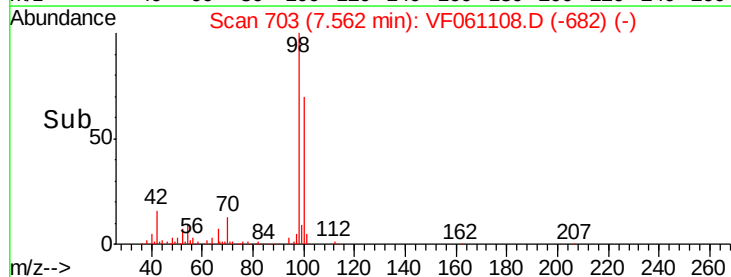
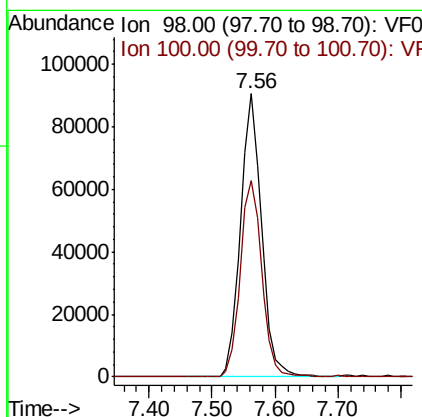
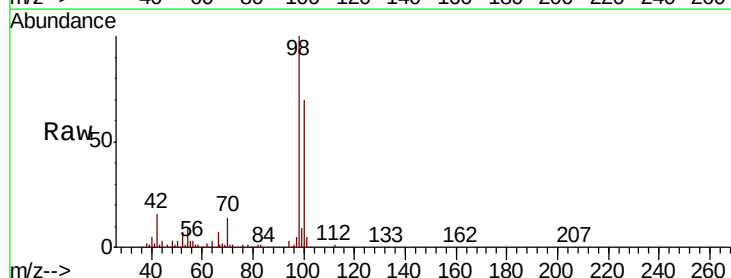
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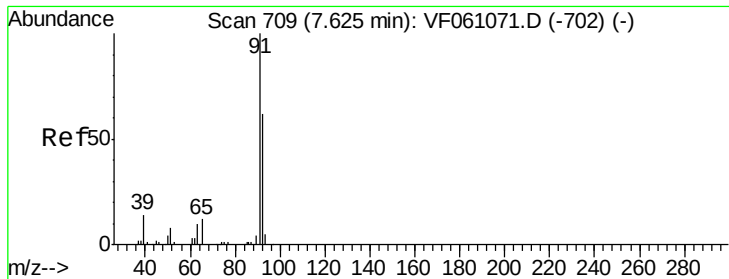
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#50
Toluene-d8
Concen: 32.390 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.01 min
Lab File: VF061108.D
Acq: 20 Dec 2018 15:16

Tgt Ion: 98 Resp: 208754
Ion Ratio Lower Upper
98 100
100 69.6 55.3 82.9





#52

Toluene

Concen: 1.316 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061108.D

Acq: 20 Dec 2018 15:16

Instrument :

MSVOA_F

ClientSampleId :

P001-SD003-0006-01

Tot Ion: 92 Resp: 6419

Ion Ratio Lower Upper

92 100

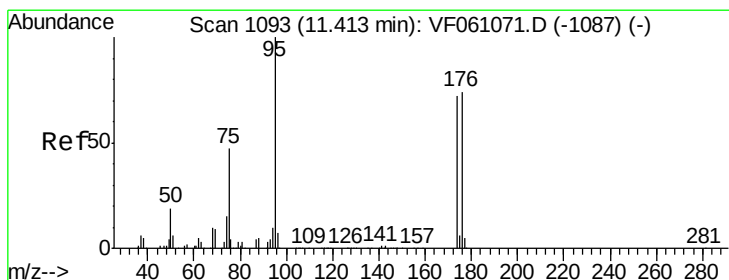
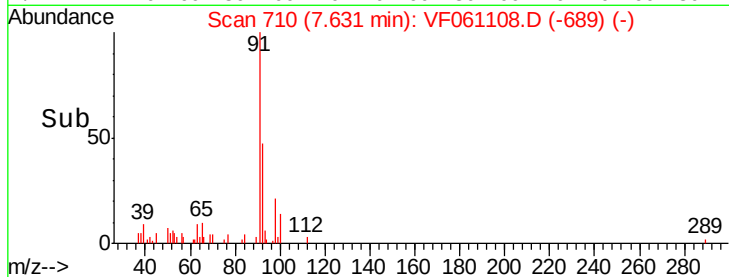
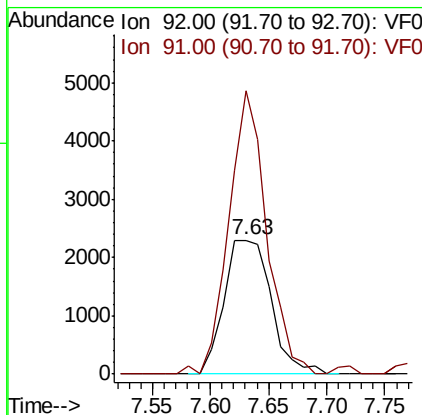
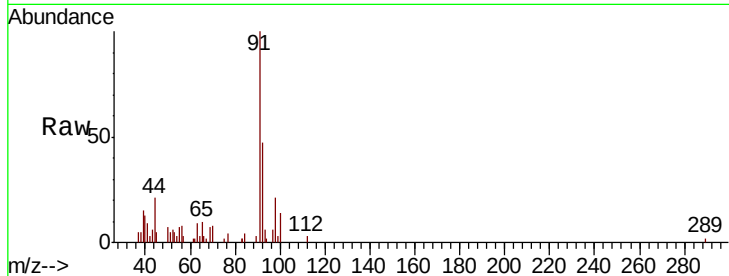
91 211.9 128.8 193.2#

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 18.620 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061108.D

Acq: 20 Dec 2018 15:16

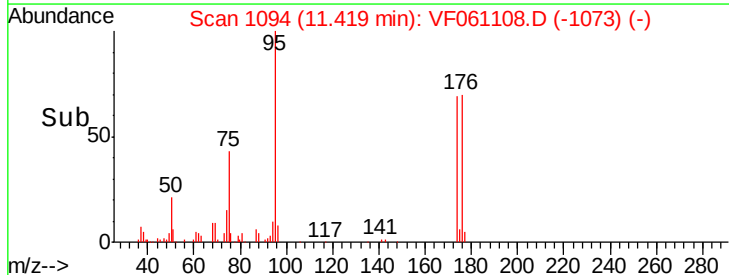
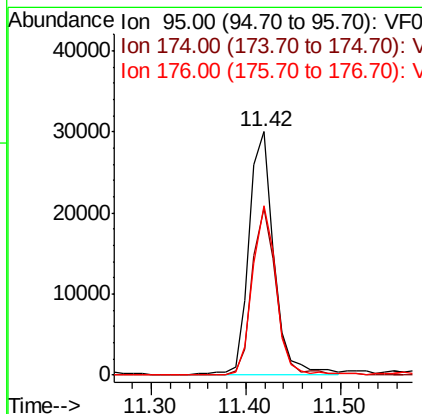
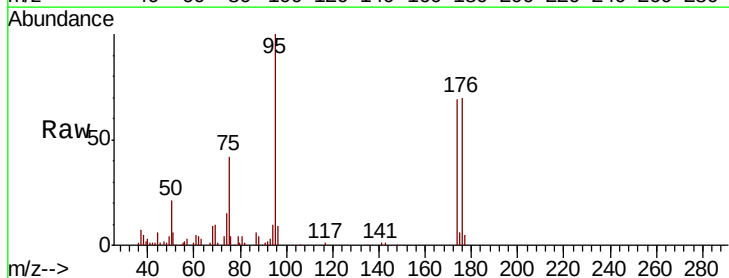
Tgt Ion: 95 Resp: 55324

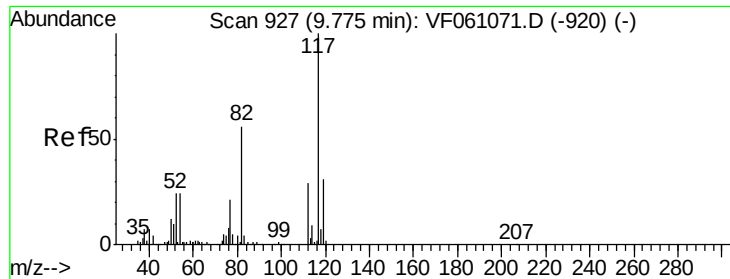
Ion Ratio Lower Upper

95 100

174 68.5 0.0 143.8

176 69.6 0.0 147.6





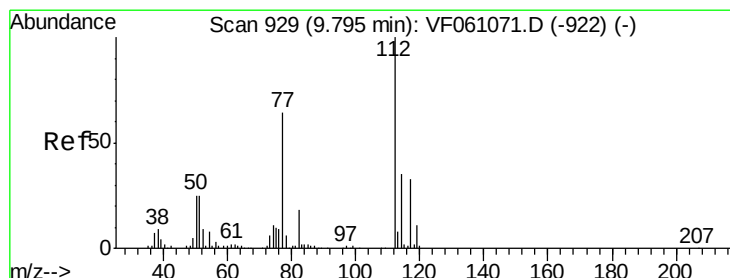
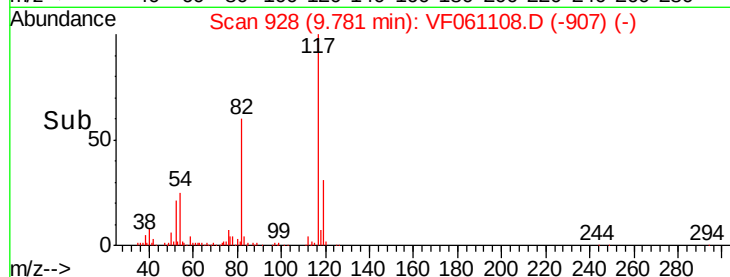
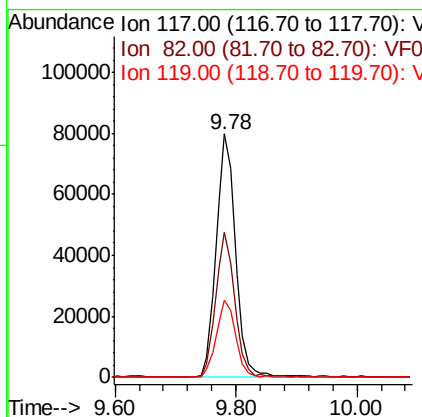
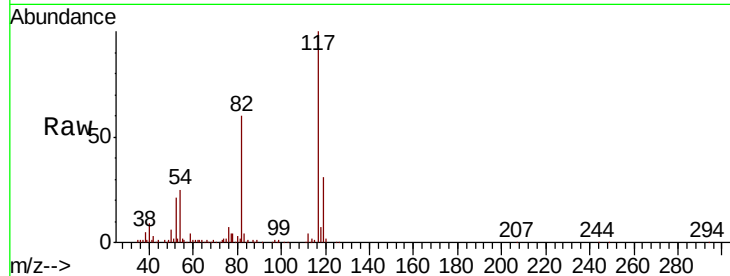
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061108.D
Acq: 20 Dec 2018 15:16

Instrument :
MSVOA_F
ClientSampleId :
P001-SD003-0006-01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	178777		
82	59.8	45.0	67.4	
119	31.5	24.8	37.2	

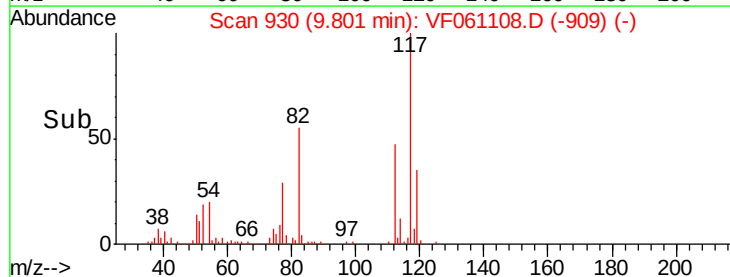
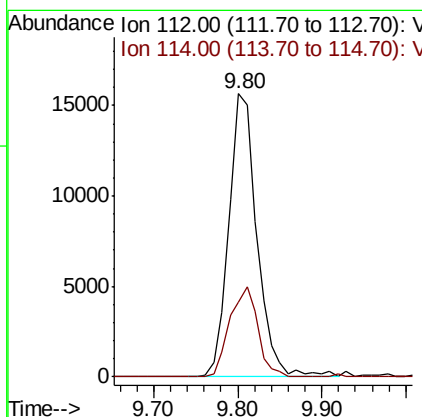
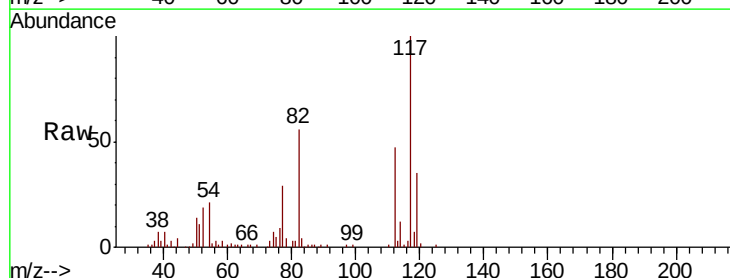
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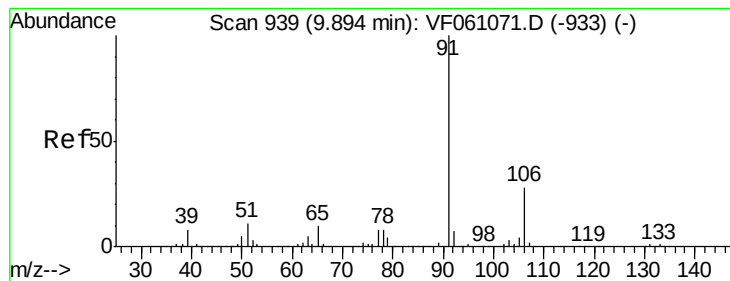
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#65
Chlorobenzene
Concen: 9.883 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.01 min
Lab File: VF061108.D
Acq: 20 Dec 2018 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	36500		
114	26.2	27.8	41.6	#





#67

Ethyl Benzene

Concen: 1.762 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.02 min

Lab File: VF061108.D

Acq: 20 Dec 2018 15:16

Instrument :

MSVOA_F

ClientSampleId :

P001-SD003-0006-01

Tot Ion: 91 Resp: 11856

Ion Ratio Lower Upper

91 100

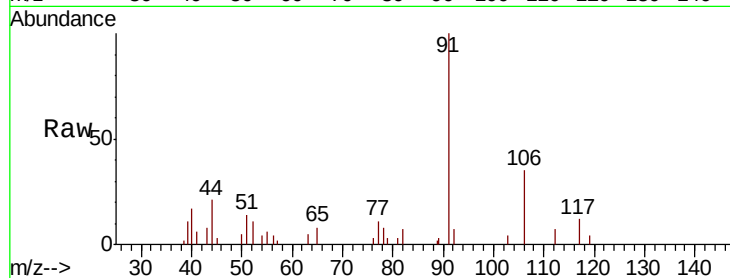
106 34.5 22.5 33.7#

Manual Integrations

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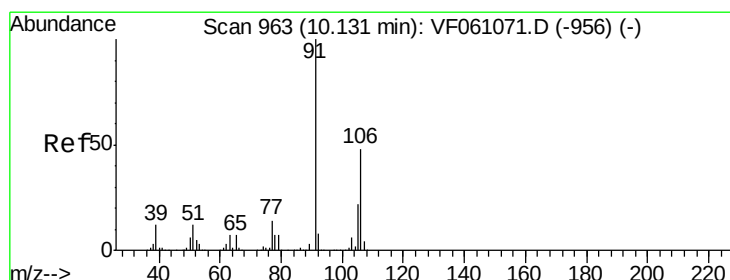
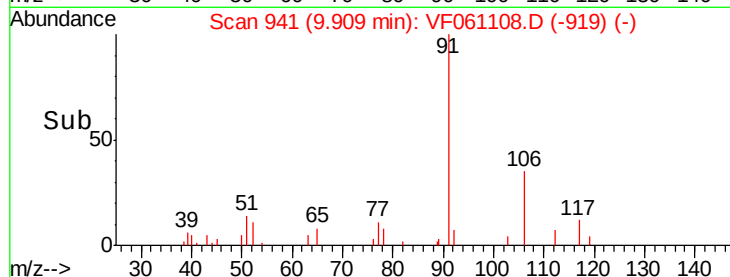
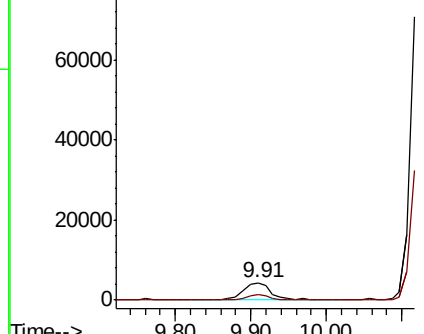
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 91.242 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.01 min

Lab File: VF061108.D

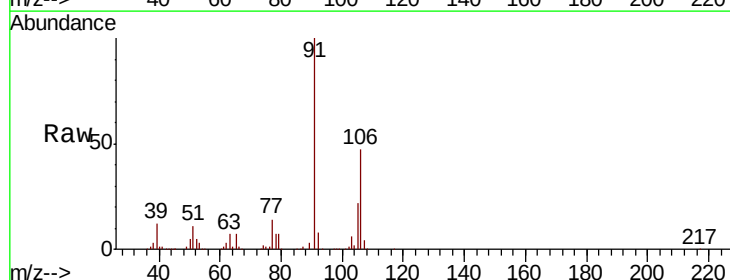
Acq: 20 Dec 2018 15:16

Tgt Ion: 106 Resp: 216052

Ion Ratio Lower Upper

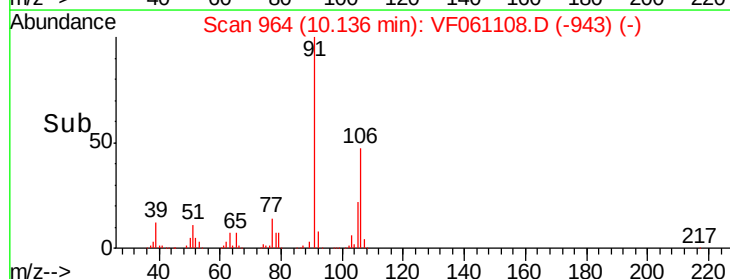
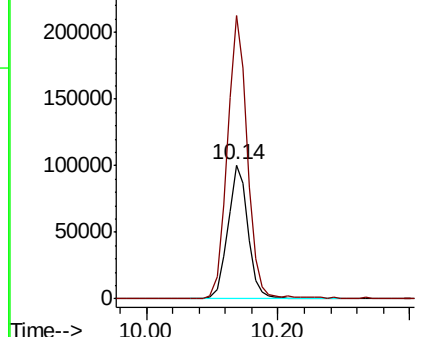
106 100

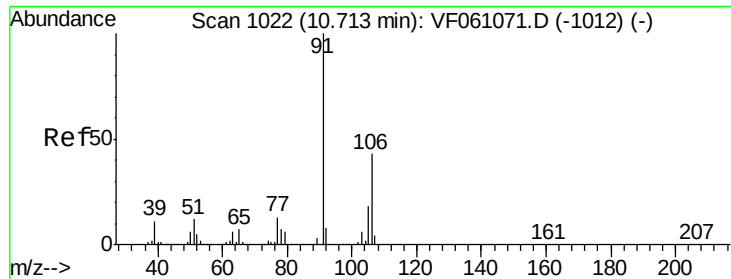
91 211.1 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





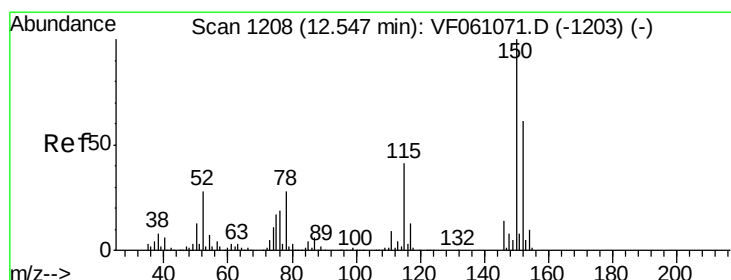
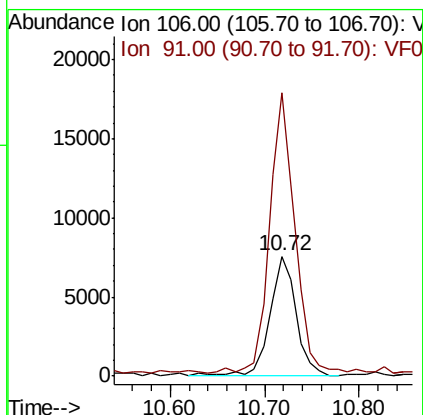
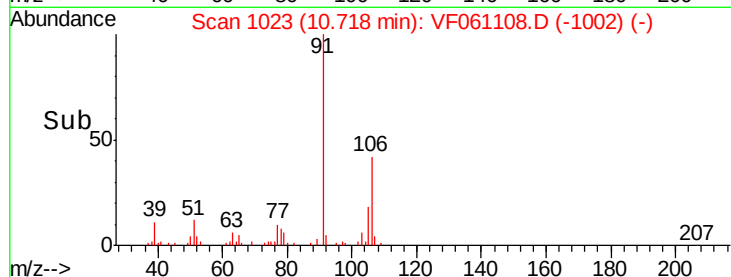
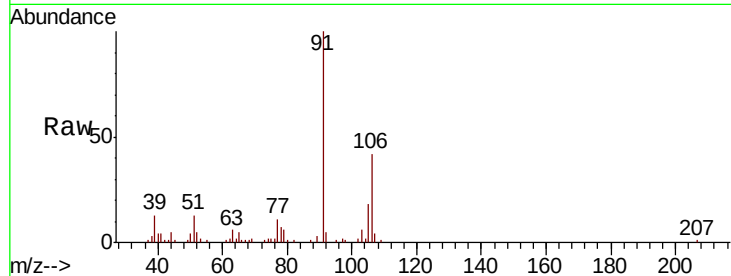
#69
o-Xylene
Concen: 5.637 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VF061108.D
Acq: 20 Dec 2018 15:16

Instrument :
MSVOA_F
ClientSampleId :
P001-SD003-0006-01

Tot Ion:106 Resp: 14804
Ion Ratio Lower Upper
106 100
91 236.7 115.9 347.7

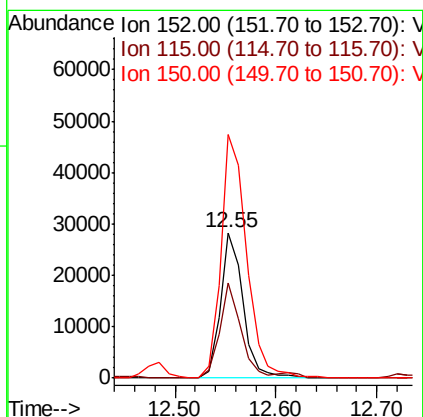
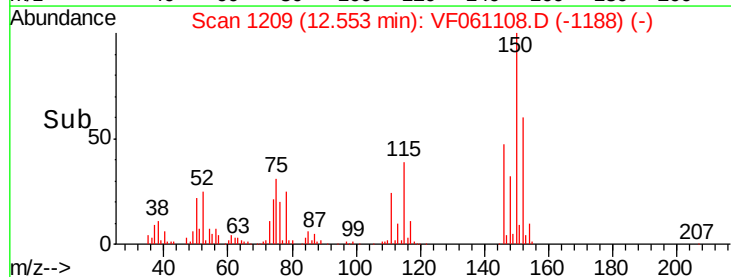
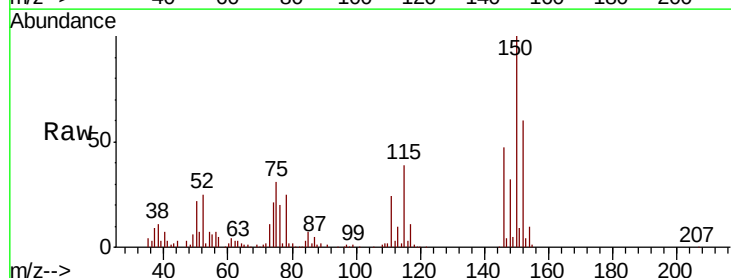
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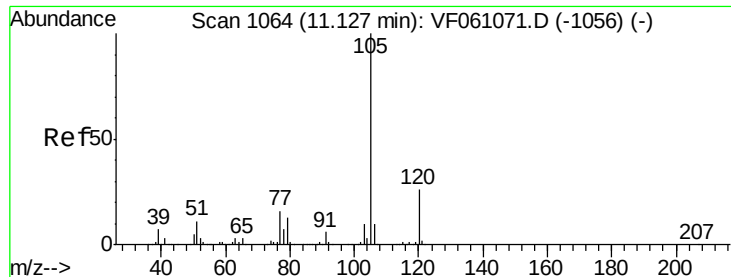
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061108.D
Acq: 20 Dec 2018 15:16

Tgt Ion:152 Resp: 43903
Ion Ratio Lower Upper
152 100
115 65.2 33.3 99.9
150 167.6 0.0 328.2





#73

Isopropylbenzene

Concen: 4.582 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VF061108.D

Acq: 20 Dec 2018 15:16

Instrument :

MSVOA_F

ClientSampleId :

P001-SD003-0006-01

Tot Ion:105 Resp: 17334

Ion Ratio Lower Upper

105 100

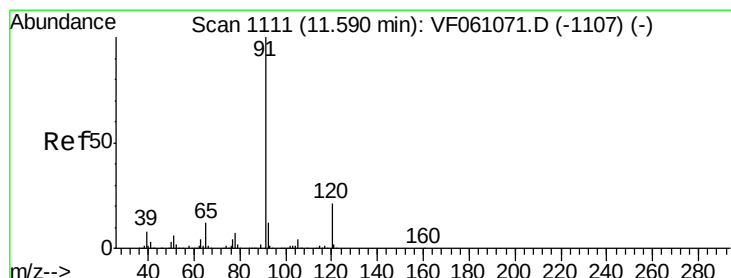
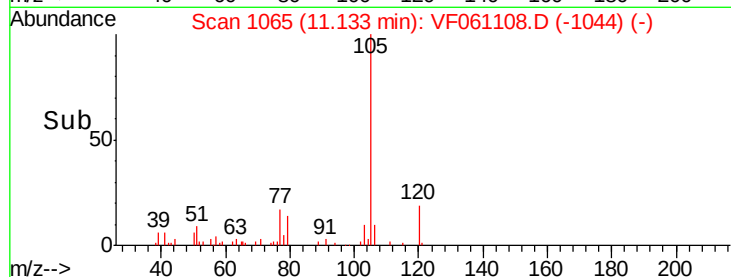
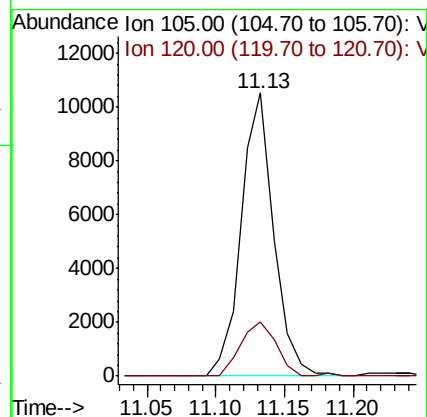
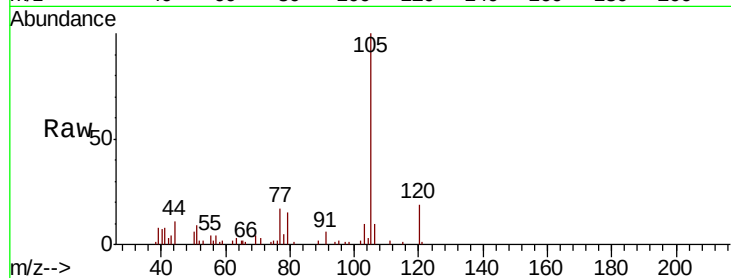
120 19.0 13.0 39.0

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#78

n-propylbenzene

Concen: 6.886 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061108.D

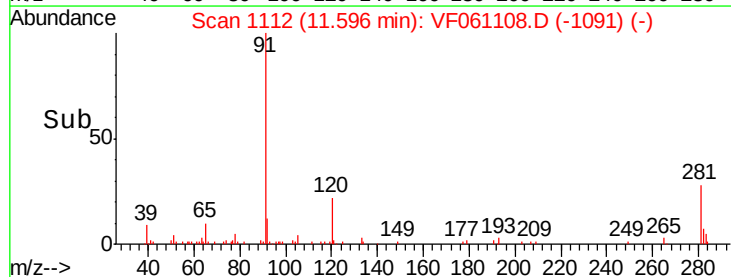
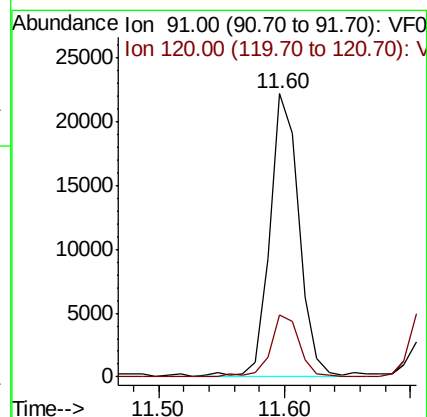
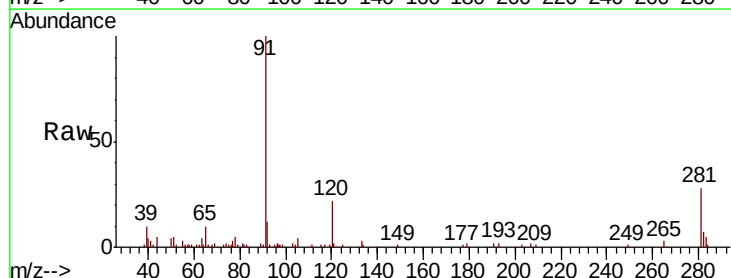
Acq: 20 Dec 2018 15:16

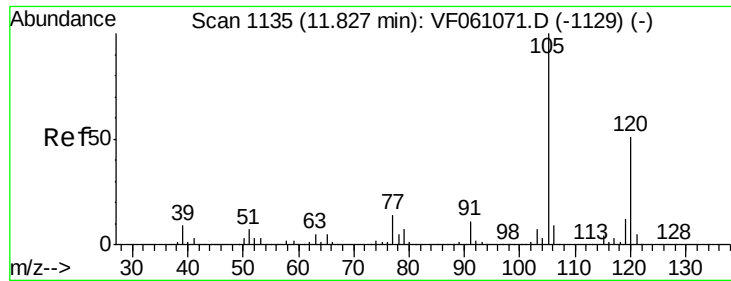
Tgt Ion: 91 Resp: 35937

Ion Ratio Lower Upper

91 100

120 22.1 10.4 31.2





#80

1,3,5-Trimethylbenzene

Concen: 11.350 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061108.D

Acq: 20 Dec 2018 15:16

Instrument :

MSVOA_F

ClientSampleId :

P001-SD003-0006-01

Tot Ion:105 Resp: 35360

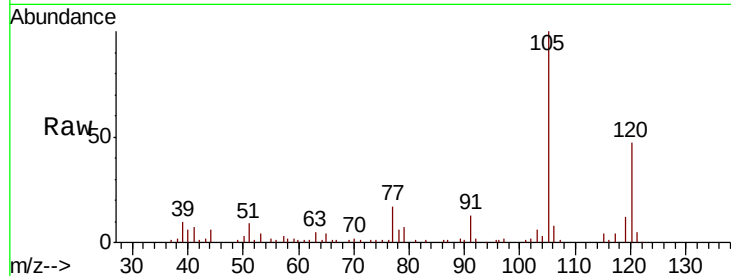
Ion Ratio Lower Upper

105 100

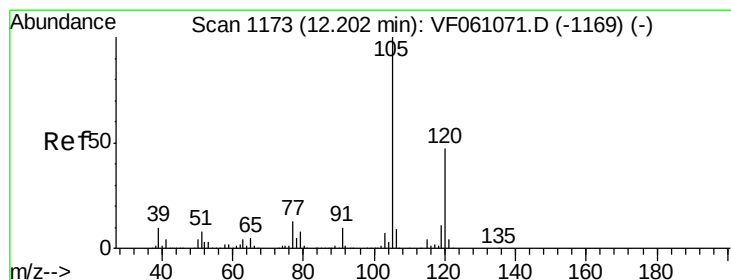
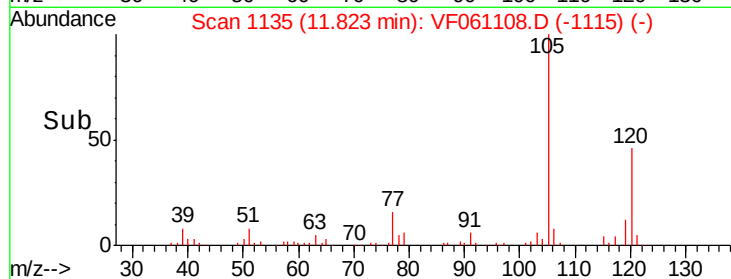
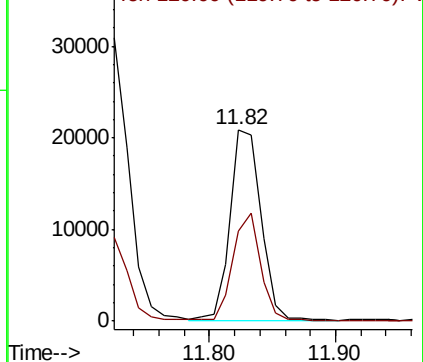
120 46.8 25.4 76.4

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



#84

1,2,4-Trimethylbenzene

Concen: 34.445 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VF061108.D

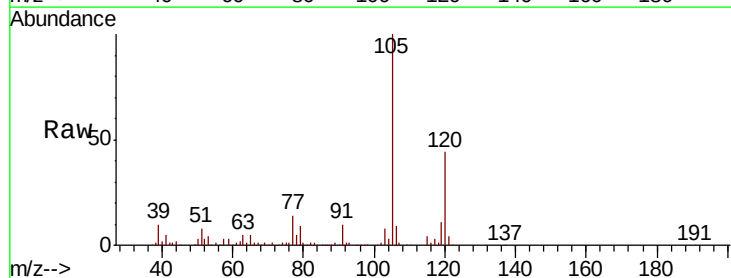
Acq: 20 Dec 2018 15:16

Tgt Ion:105 Resp: 107009

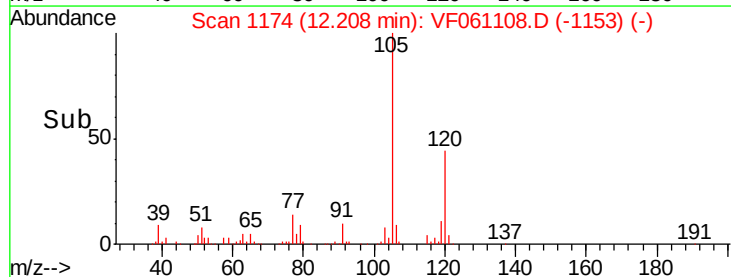
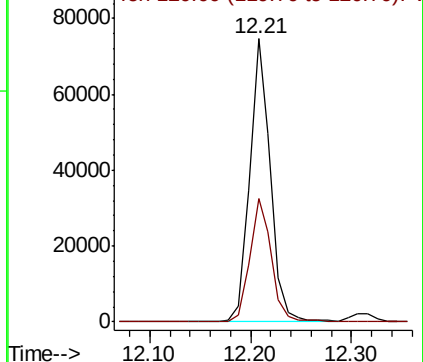
Ion Ratio Lower Upper

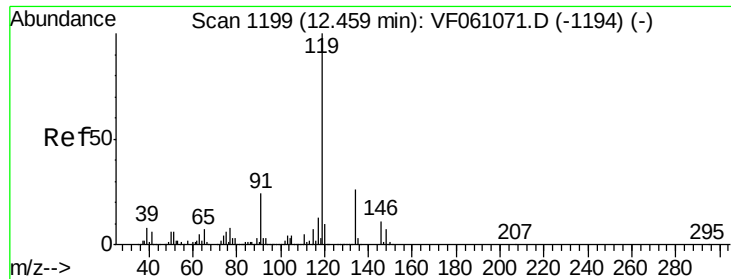
105 100

120 43.7 23.6 71.0



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





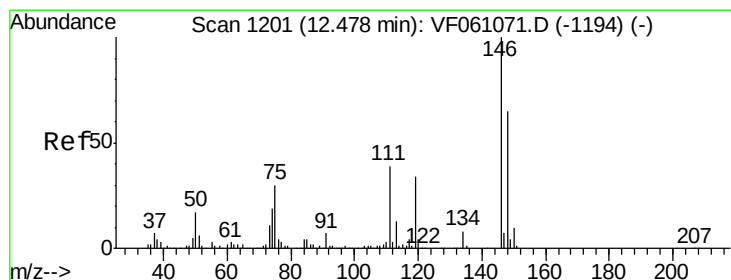
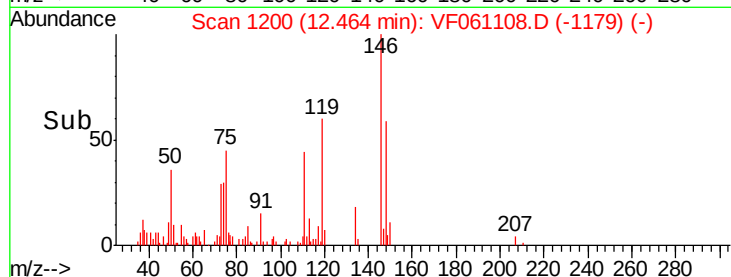
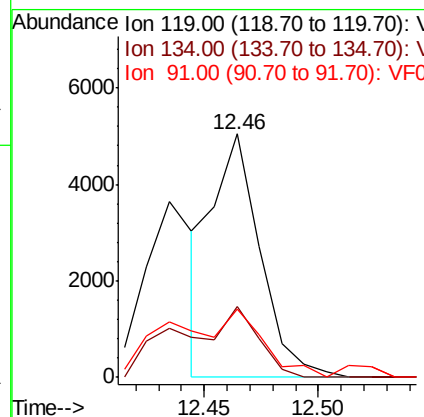
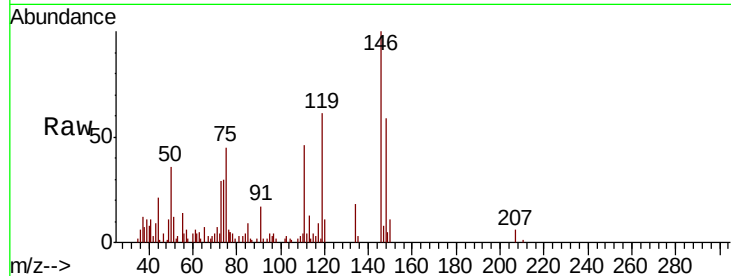
#86
 p-Isopropyltoluene
 Concen: 2.111 ug/l m
 RT: 12.46 min Scan# 1200
 Delta R.T. 0.01 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD003-0006-01

Tot Ion	Ratio	Lower	Upper
119	100		
134	29.0	12.8	38.4
91	27.8	12.2	36.6

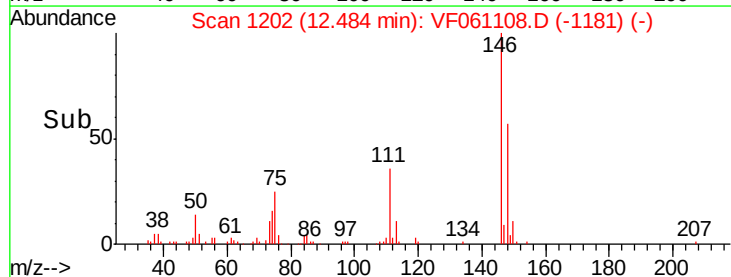
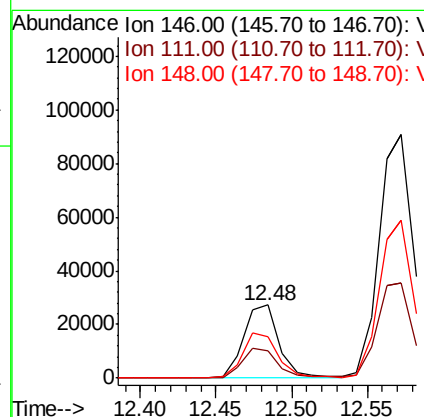
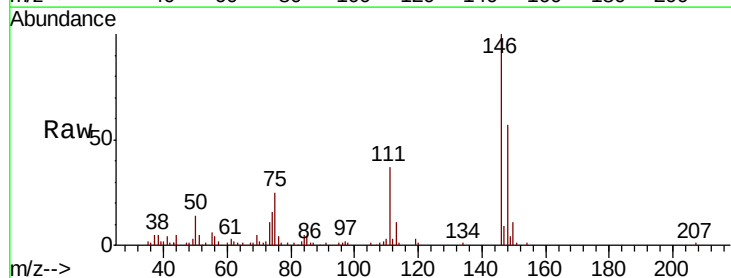
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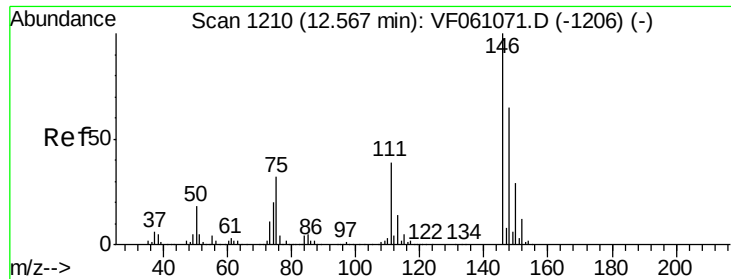
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#87
 1,3-Dichlorobenzene
 Concen: 31.693 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	19.3	57.9
148	56.6	32.4	97.2





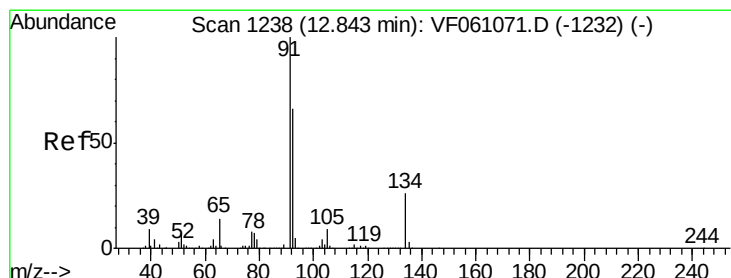
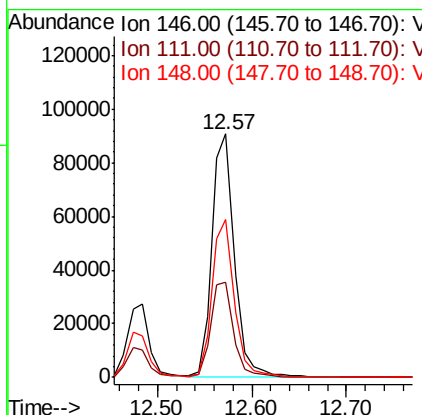
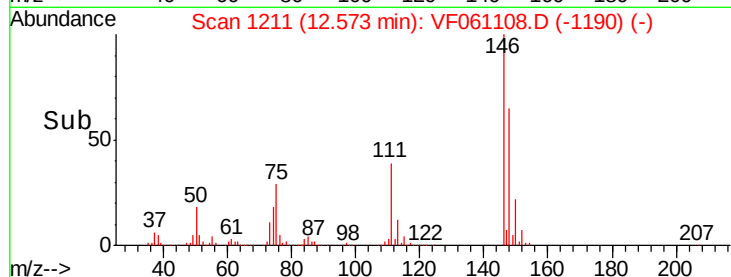
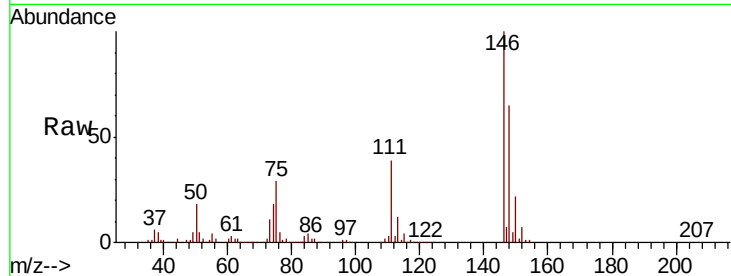
#88
 1,4-Dichlorobenzene
 Concen: 100.292 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.01 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD003-0006-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.4	58.4
148	64.6	32.4	97.0

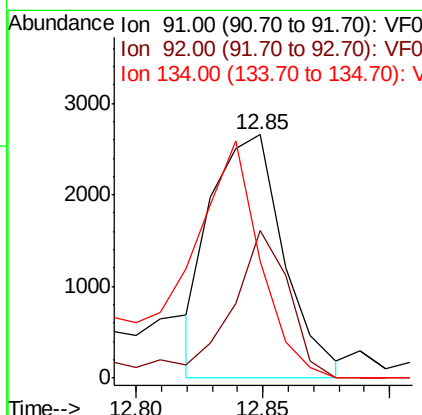
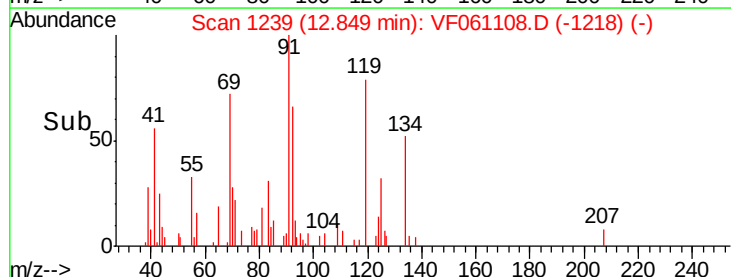
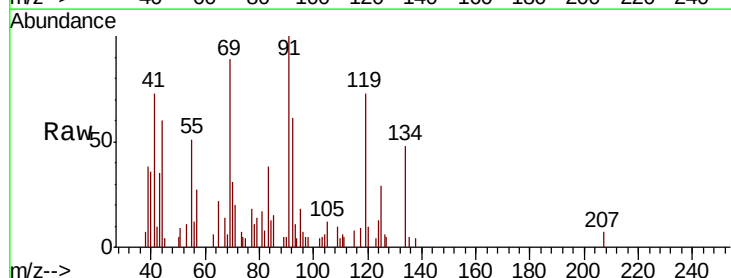
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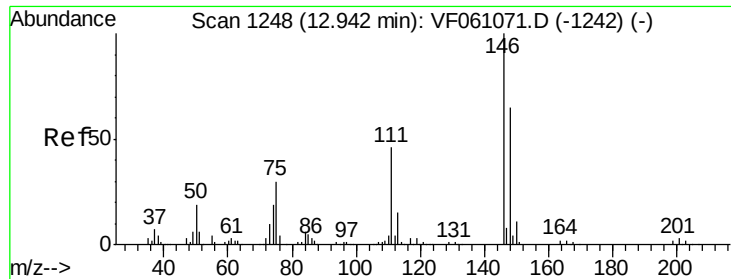
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#89
 n-Butylbenzene
 Concen: 1.530 ug/l m
 RT: 12.85 min Scan# 1239
 Delta R.T. 0.01 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.6	32.8	98.4
134	48.1	13.2	39.5#





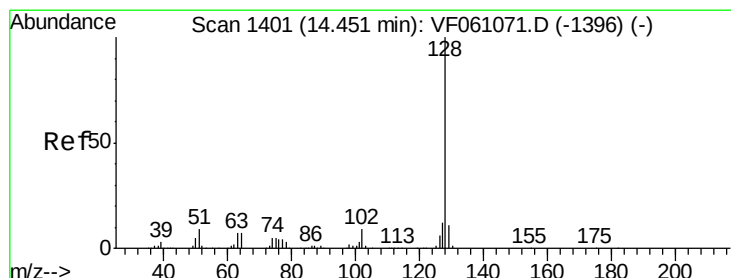
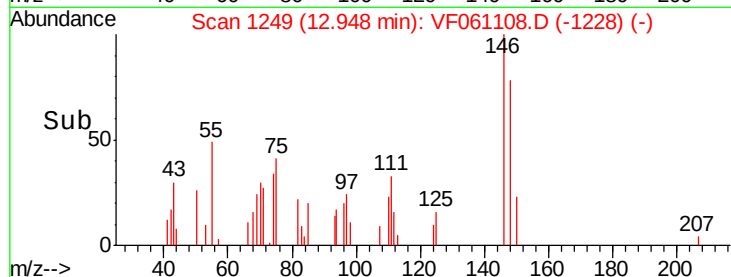
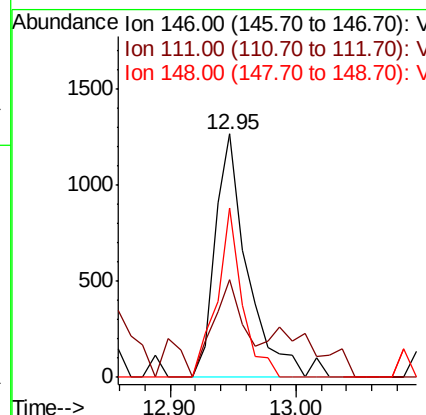
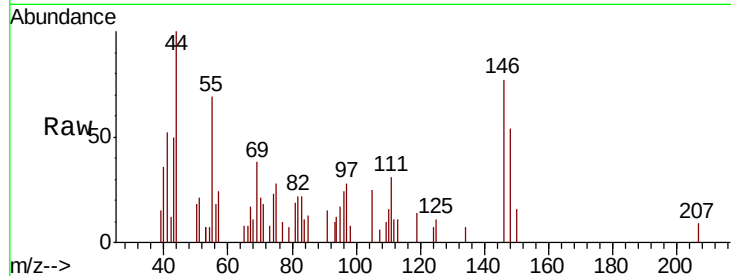
#91
 1,2-Dichlorobenzene
 Concen: 1.575 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.01 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD003-0006-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	23.2	69.5
148	69.6	32.4	97.0

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#95
 Naphthalene
 Concen: 4.653 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.01 min
 Lab File: VF061108.D
 Acq: 20 Dec 2018 15:16

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.1	9.4	14.2
129	11.8	8.8	13.2

