

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011119\
 Data File : VF061368.D
 Acq On : 11 Jan 2019 15:13
 Operator : VA/AP
 Sample : K1119-03
 Misc : 5.84g/5mL/MSVOA-F/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 DS-B

Manual Integrations
 APPROVED

MMDadoda
 1/14/2019 1:16:54 PM

Quant Time: Jan 12 04:03:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	106498	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	162211	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	127851	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	58565	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	47723	40.26	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	80.52%	
35) Dibromofluoromethane	4.10	113	57919	46.66	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	93.32%	
50) Toluene-d8	7.53	98	163081	44.40	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	88.80%	
62) 4-Bromofluorobenzene	11.40	95	64816	40.41	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	80.82%	
Target Compounds						
					Qvalue	
20) Methylene Chloride	2.18	84	7947	6.812	ug/l #	93
52) Toluene	7.60	92	9742	3.427	ug/l	90
67) Ethyl Benzene	9.88	91	14299	2.873	ug/l	98
68) m/p-Xylenes	10.12	106	19817	11.413	ug/l	95
69) o-Xylene	10.70	106	13154	6.782	ug/l	90
73) Isopropylbenzene	11.11	105	8791	1.706	ug/l	92
78) n-propylbenzene	11.58	91	28826	4.691	ug/l	94
80) 1,3,5-Trimethylbenzene	11.81	105	32912	8.026	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	125016	30.707	ug/l	94
85) sec-Butylbenzene	12.30	105	16323	2.806	ug/l	99
86) p-Isopropyltoluene	12.44	119	8929m	1.887	ug/l	
89) n-Butylbenzene	12.83	91	28330	5.827	ug/l #	75

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

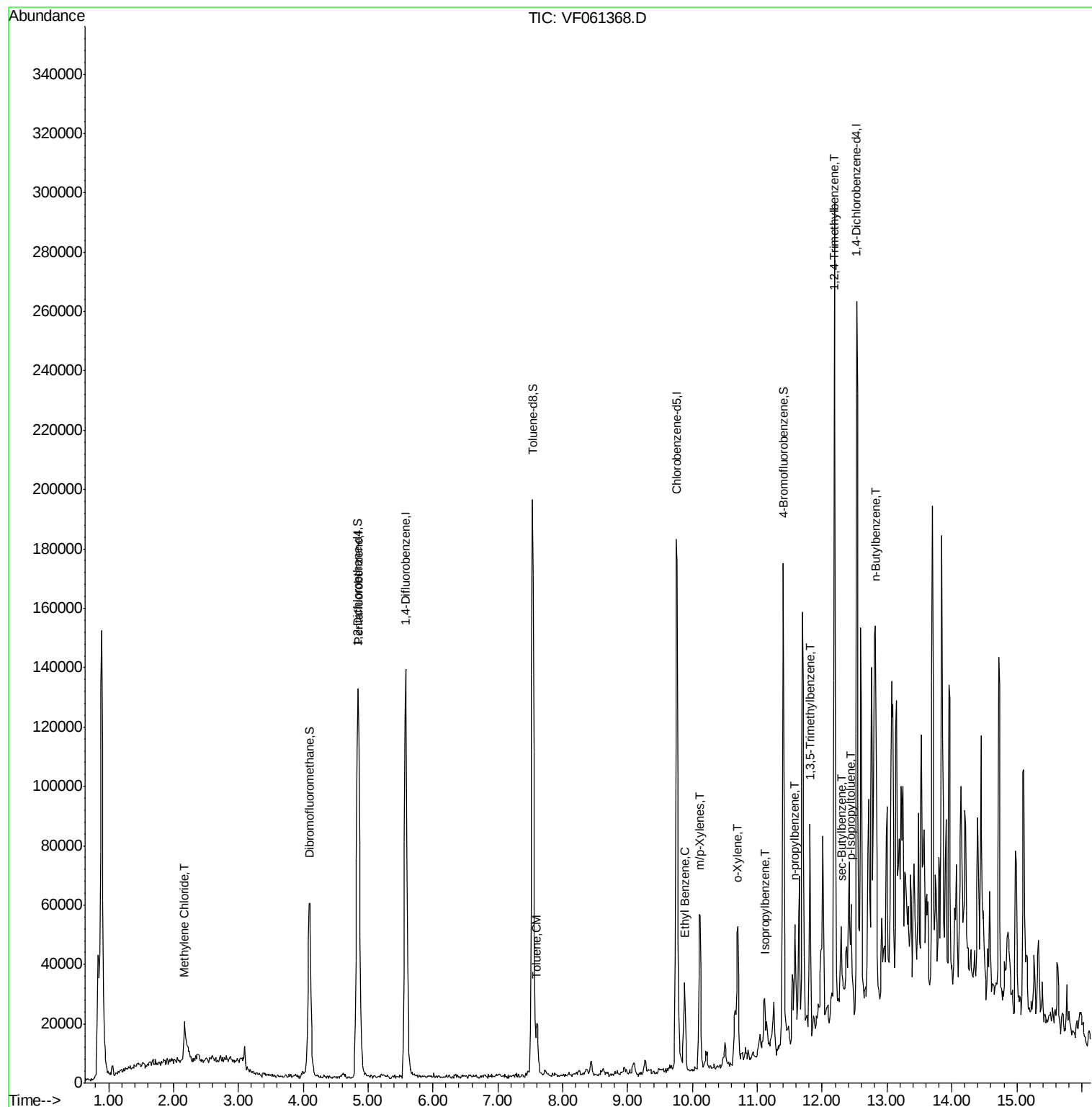
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011119\
Data File : VF061368.D
Acq On : 11 Jan 2019 15:13
Operator : VA/AP
Sample : K1119-03
Misc : 5.84g/5mL/MSVOA-F/SOIL
ALS Vial : 30 Sample Multiplier: 1

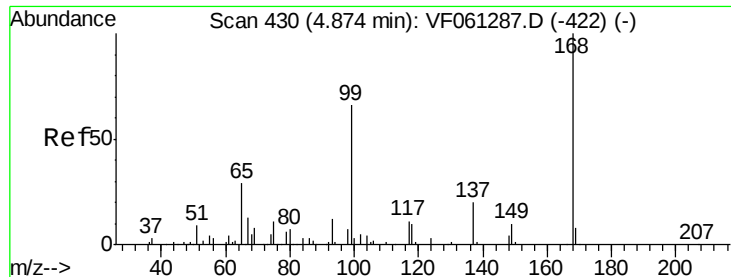
Instrument :
MSVOA_F
ClientSampleId :
DS-B

Manual Integrations
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MMDadoda
1/14/2019 1:16:54 PM

Quant Time: Jan 12 04:03:28 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061368.D

Acq: 11 Jan 2019 15:13

Instrument :

MSVOA_F

ClientSampled :

DS-B

Tot Ion:168 Resp: 106498

Ion Ratio Lower Upper

168 100

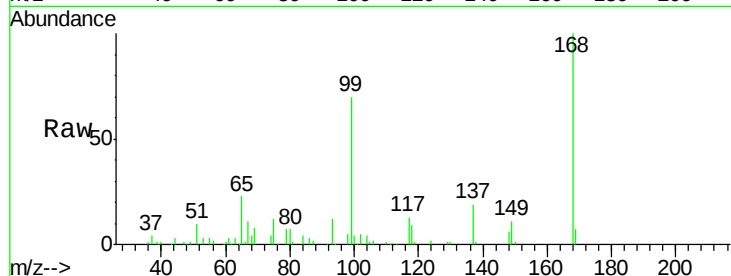
99 70.1 52.7 79.1

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

30000

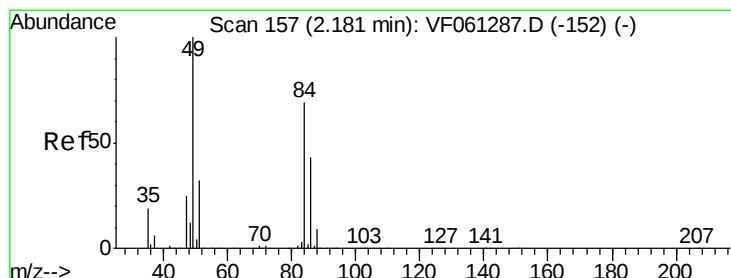
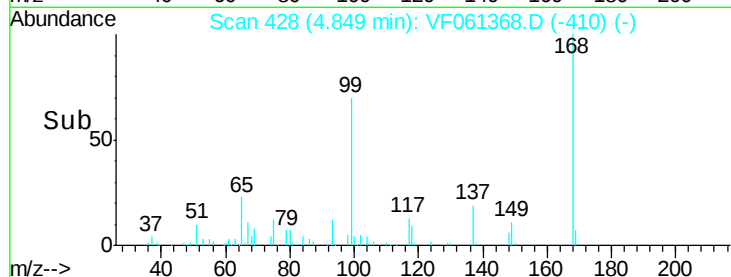
20000

10000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#20

Methylene Chloride

Concen: 6.812 ug/l

RT: 2.18 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF061368.D

Acq: 11 Jan 2019 15:13

Tgt Ion: 84 Resp: 7947

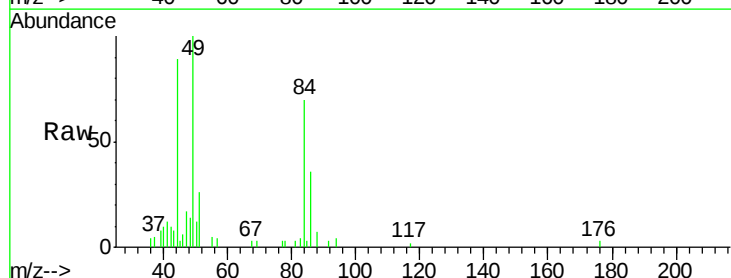
Ion Ratio Lower Upper

84 100

49 143.6 116.6 175.0

51 37.3 37.7 56.5#

86 51.8 49.8 74.8



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

6000

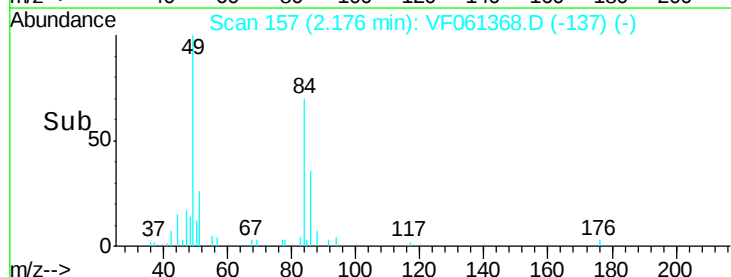
4000

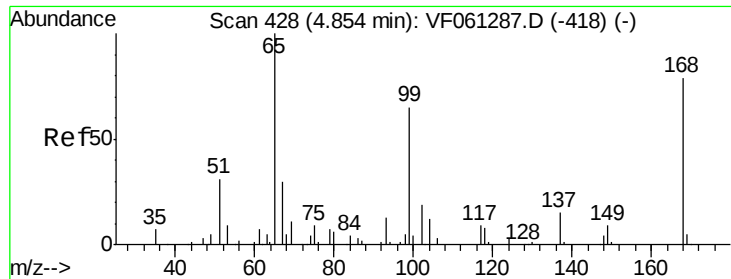
2000

0

2.10 2.18 2.20 2.25 2.30

Time-->





#33

1,2-Dichloroethane-d4

Concen: 40.260 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061368.D

Acq: 11 Jan 2019 15:13

Tot Ion: 65 Resp: 47723

Ion Ratio Lower Upper

65 100

67 55.2 0.0 98.2

Instrument :

MSVOA_F

ClientSampled :

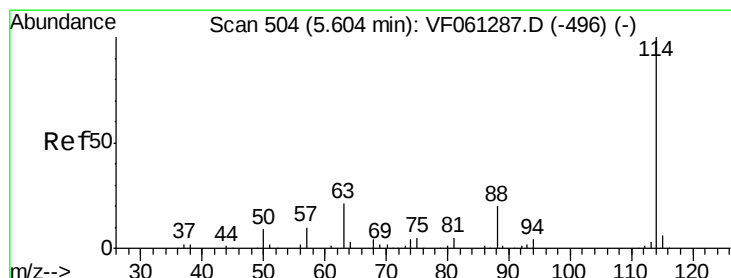
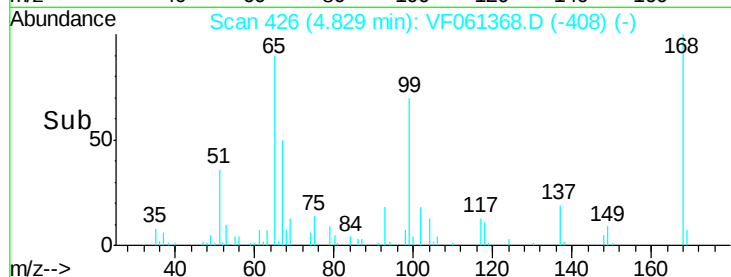
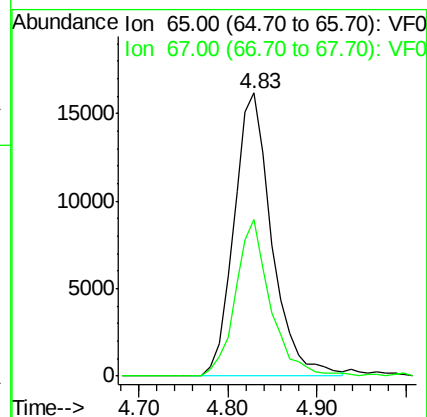
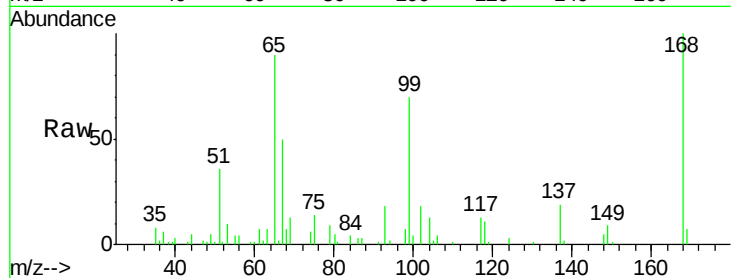
DS-B

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.02 min

Lab File: VF061368.D

Acq: 11 Jan 2019 15:13

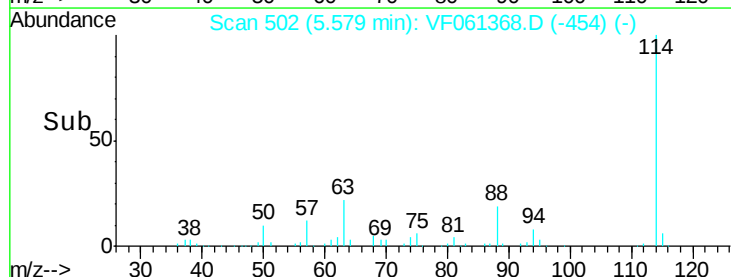
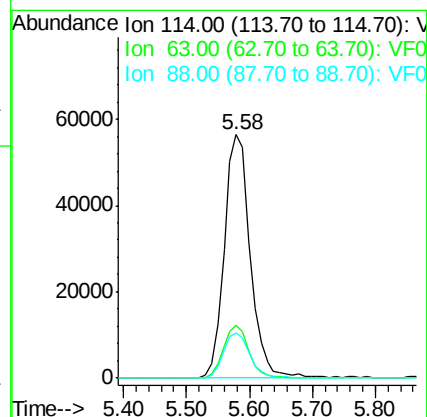
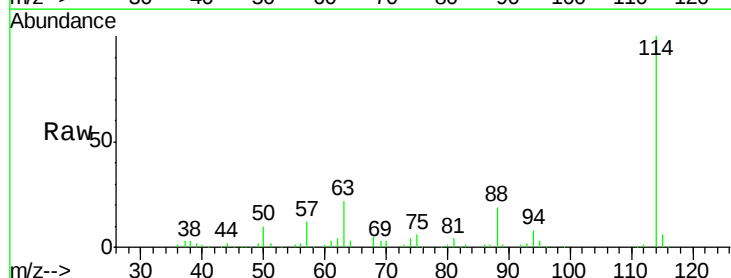
Tgt Ion: 114 Resp: 162211

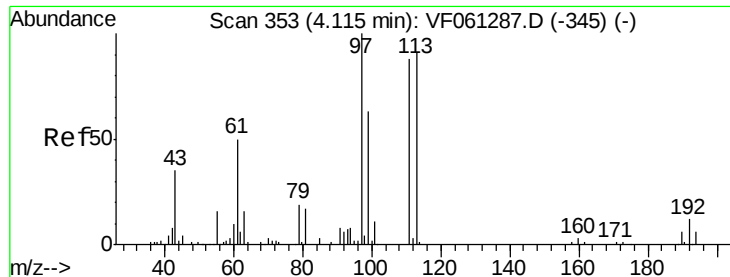
Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.8

88 18.7 0.0 40.0





#35

Dibromofluoromethane

Concen: 46.664 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061368.D

Acq: 11 Jan 2019 15:13

Instrument :

MSVOA_F

ClientSampleId :

DS-B

Tot Ion: 113 Resp: 57919

Ion Ratio Lower Upper

113 100

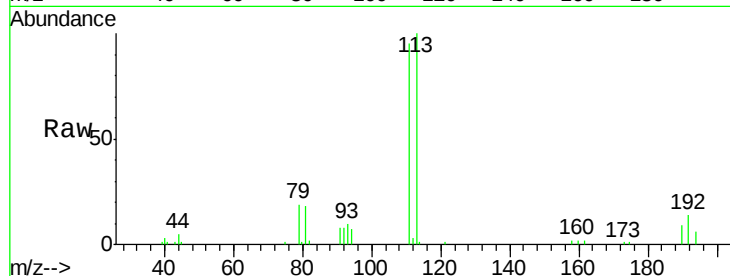
111 94.9 78.0 117.0

192 14.4 10.6 16.0

Manual Integrations
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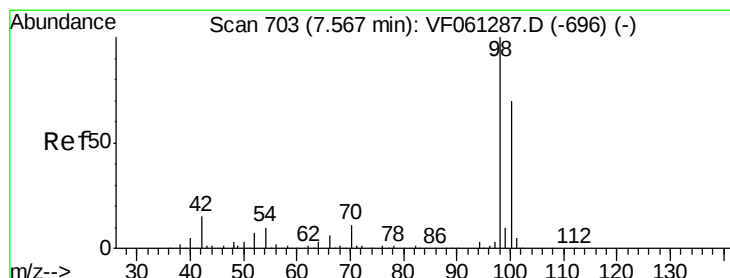
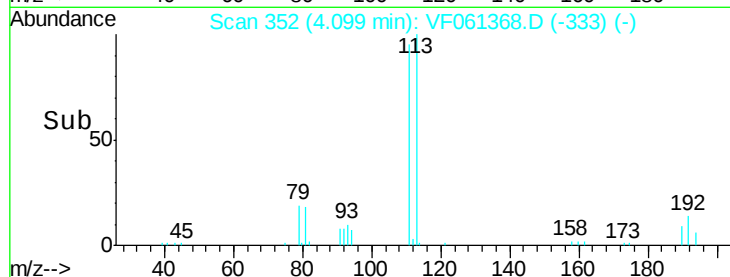
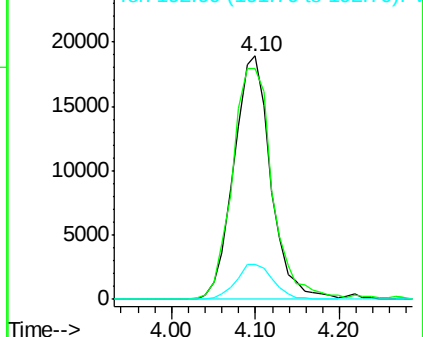
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Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#50

Toluene-d8

Concen: 44.400 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.03 min

Lab File: VF061368.D

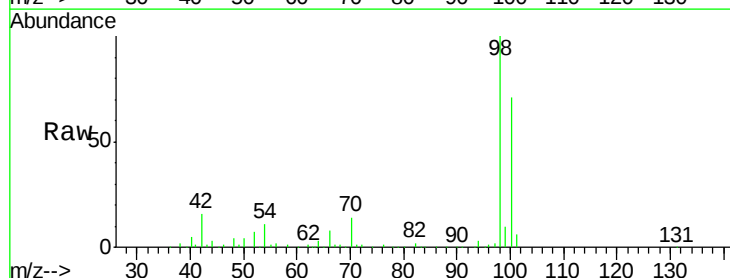
Acq: 11 Jan 2019 15:13

Tgt Ion: 98 Resp: 163081

Ion Ratio Lower Upper

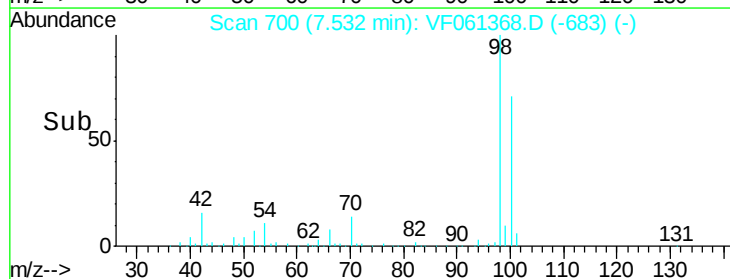
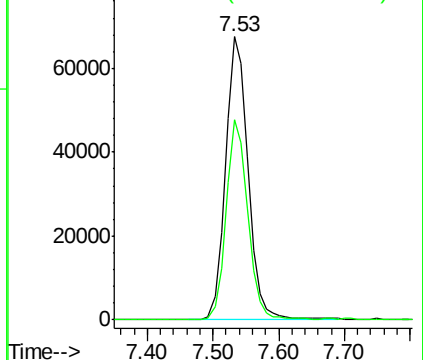
98 100

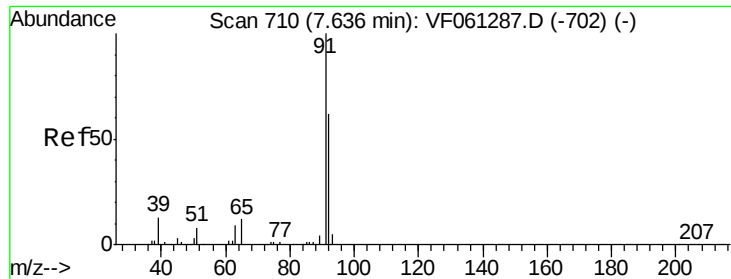
100 70.7 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF





#52

Toluene

Concen: 3.427 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061368.D

Acq: 11 Jan 2019 15:13

Instrument :

MSVOA_F

ClientSampleId :

DS-B

Tot Ion: 92 Resp: 9742

Ion Ratio Lower Upper

92 100

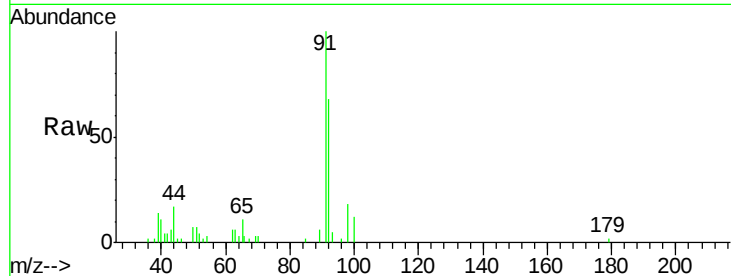
91 147.6 129.2 193.8

Manual Integrations

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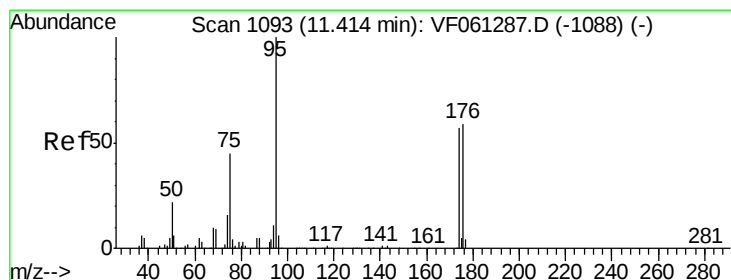
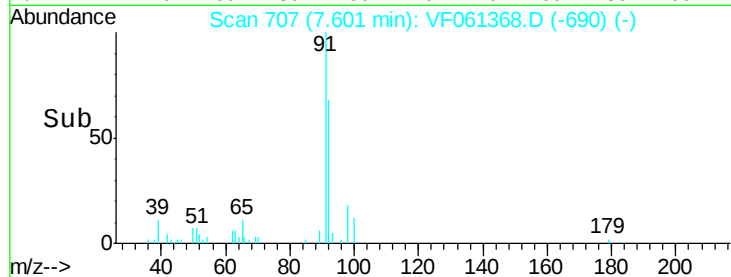
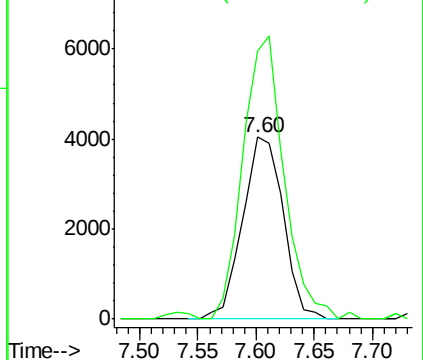
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Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#62

4-Bromofluorobenzene

Concen: 40.413 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061368.D

Acq: 11 Jan 2019 15:13

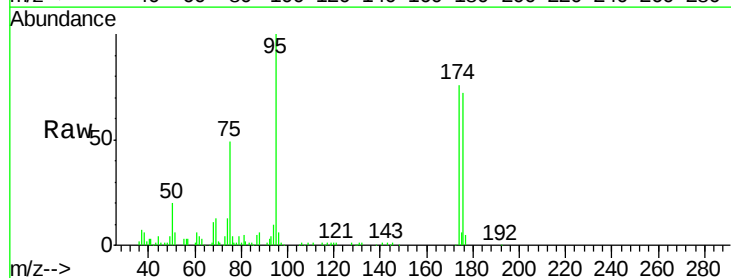
Tgt Ion: 95 Resp: 64816

Ion Ratio Lower Upper

95 100

174 75.6 0.0 114.2

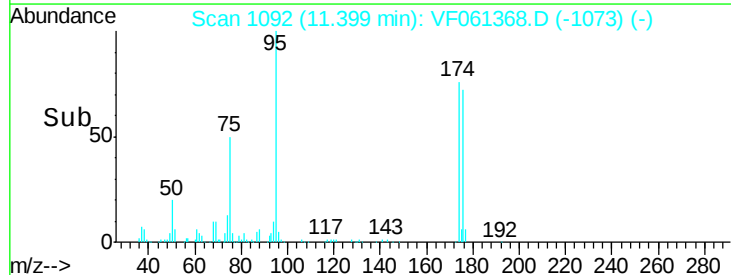
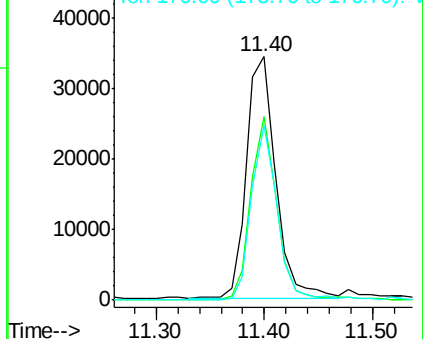
176 71.9 0.0 117.8

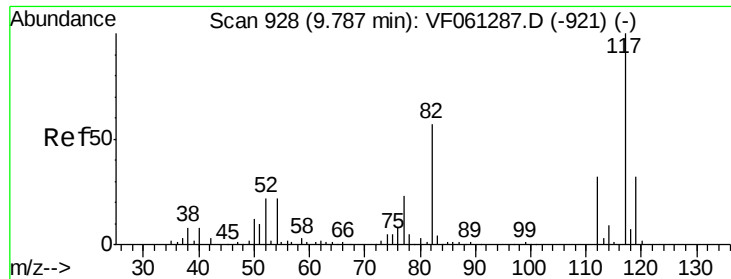


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





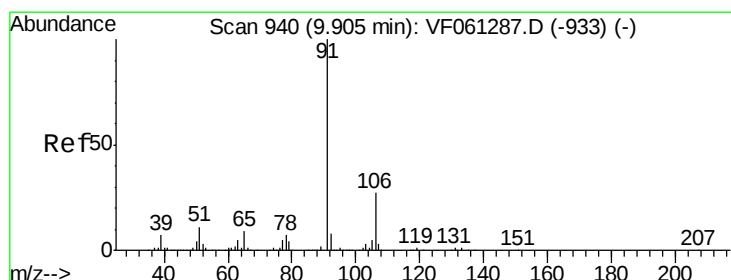
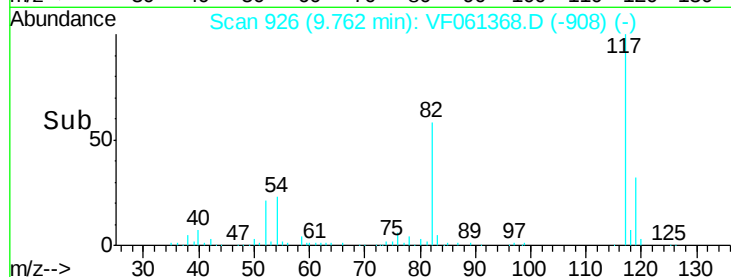
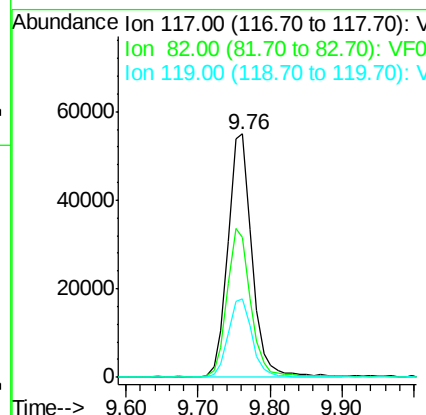
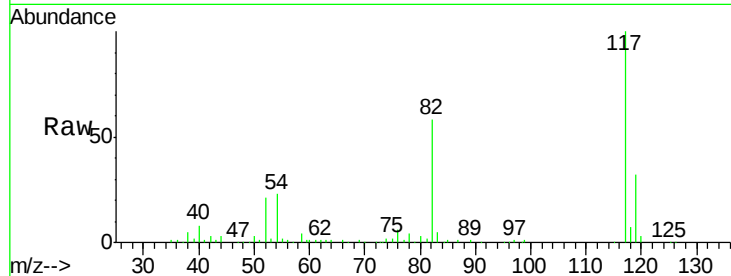
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061368.D
Acq: 11 Jan 2019 15:13

Instrument :
MSVOA_F
ClientSampleId :
DS-B

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.6	45.3	67.9
119	32.0	25.4	38.0

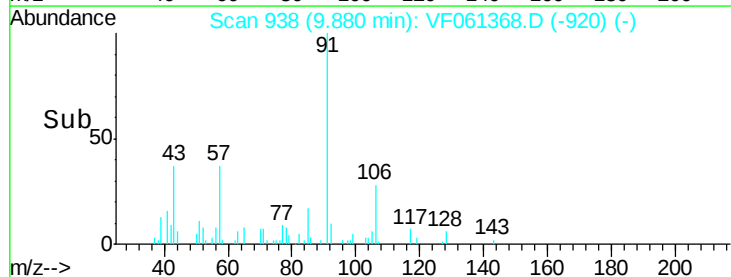
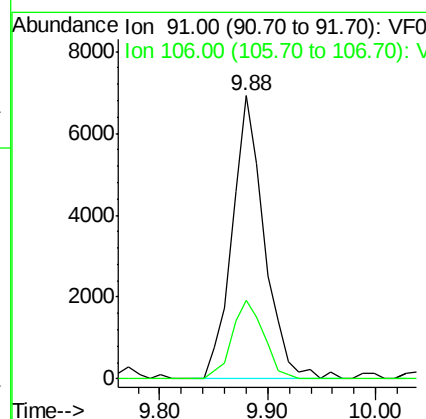
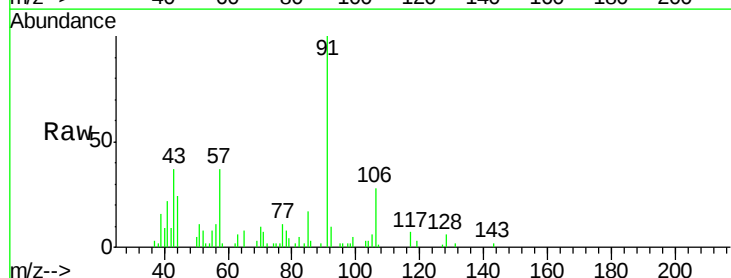
Manual Integrations
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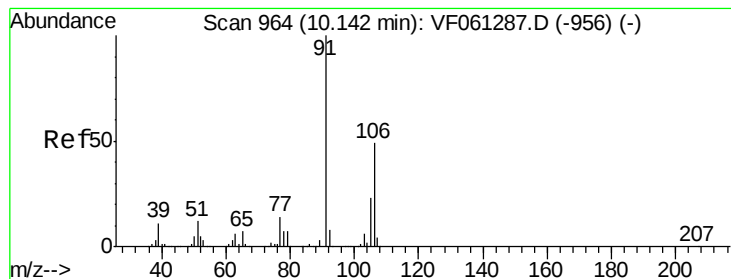
MMDadoda
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#67
Ethyl Benzene
Concen: 2.873 ug/l
RT: 9.88 min Scan# 938
Delta R.T. -0.02 min
Lab File: VF061368.D
Acq: 11 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.6	21.4	32.2





#68

m/p-Xylenes

Concen: 11.413 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF061368.D

Acq: 11 Jan 2019 15:13

Instrument :

MSVOA_F

ClientSampled :

DS-B

Tot Ion:106 Resp: 19817

Ion Ratio Lower Upper

106 100

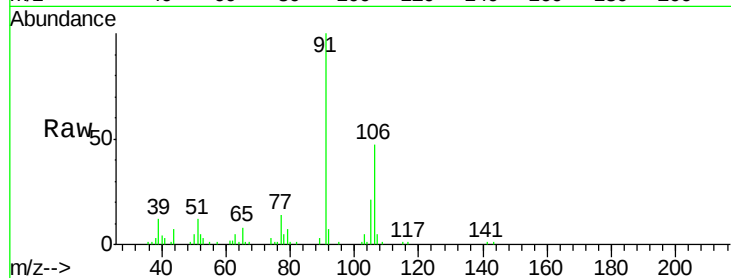
91 214.7 165.0 247.6

Manual Integrations

APPROVED

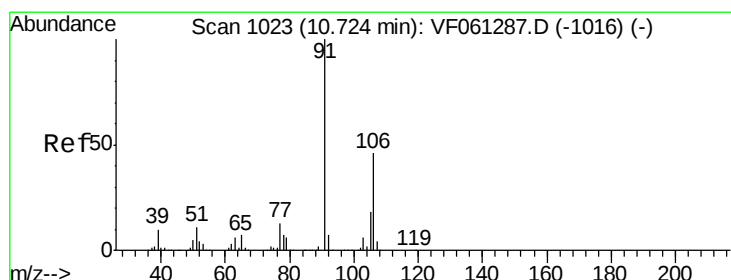
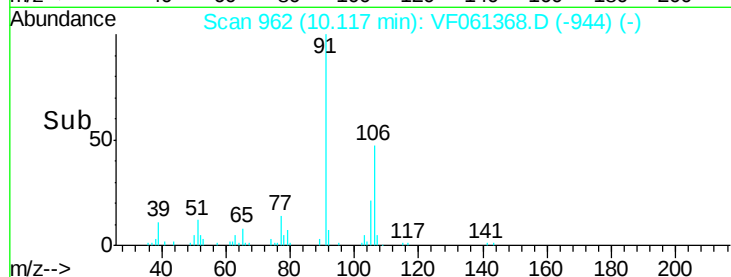
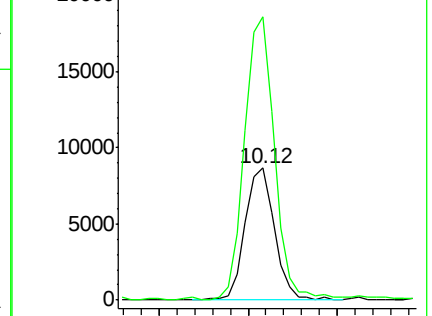
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 6.782 ug/l

RT: 10.70 min Scan# 1021

Delta R.T. -0.02 min

Lab File: VF061368.D

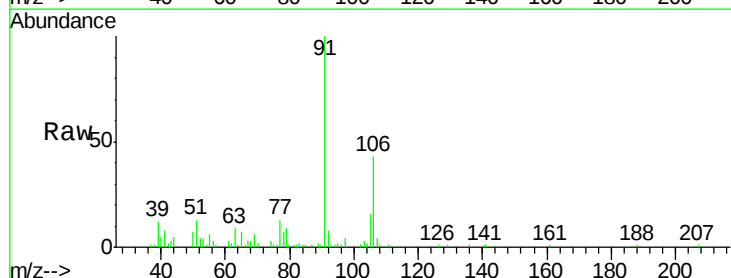
Acq: 11 Jan 2019 15:13

Tgt Ion:106 Resp: 13154

Ion Ratio Lower Upper

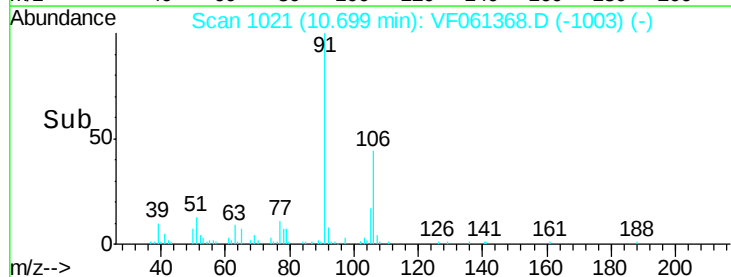
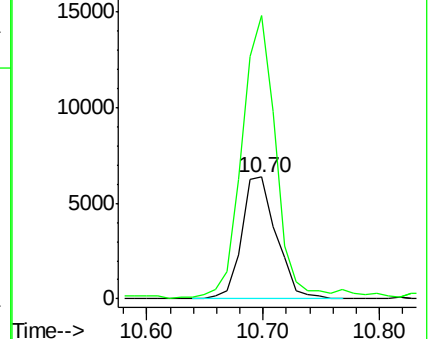
106 100

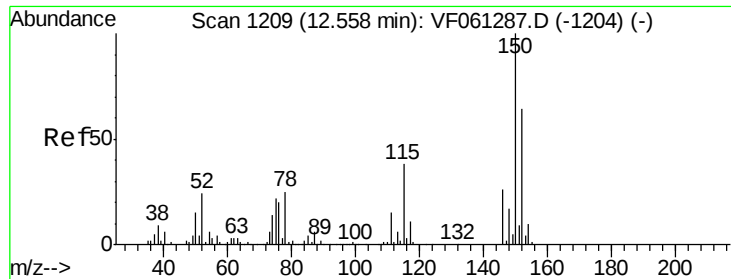
91 231.9 108.1 324.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#72

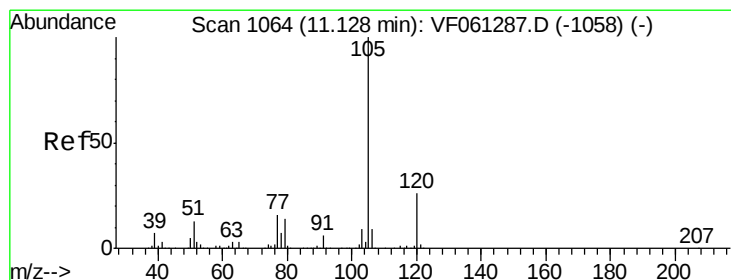
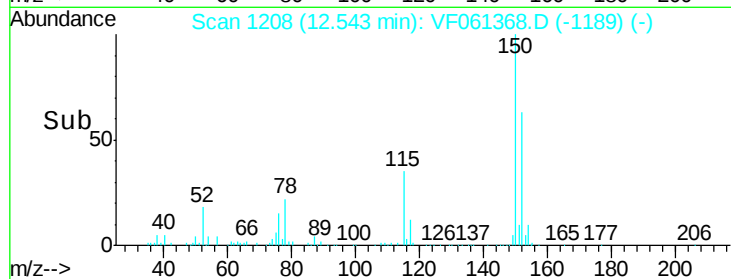
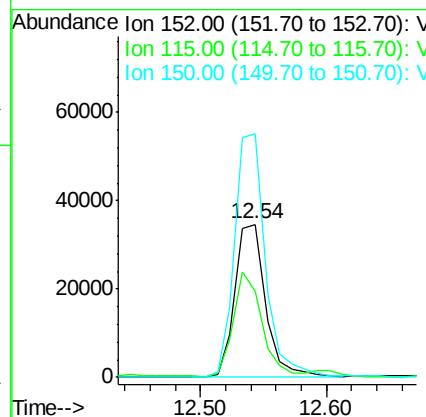
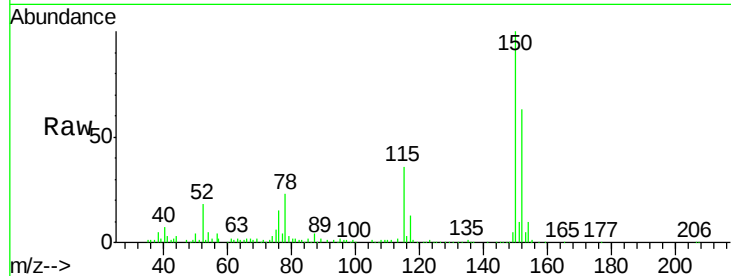
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF061368.D
Acq: 11 Jan 2019 15:13

Instrument :
MSVOA_F
ClientSampled :
DS-B

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.6	29.6	88.9
150	159.0	0.0	315.4

Manual Integrations
APPROVED

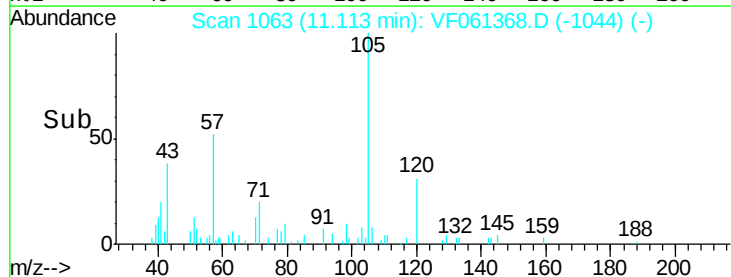
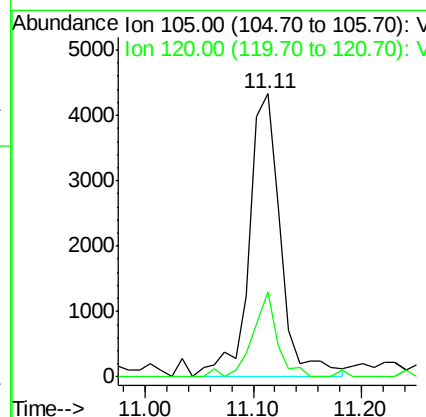
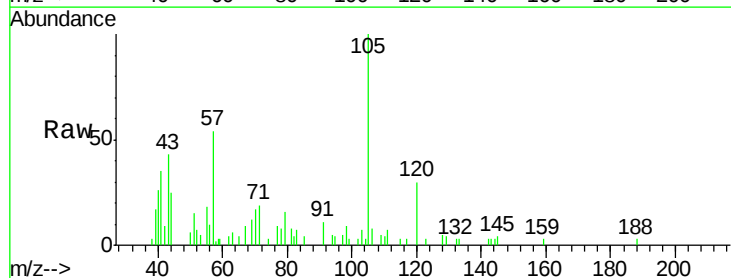
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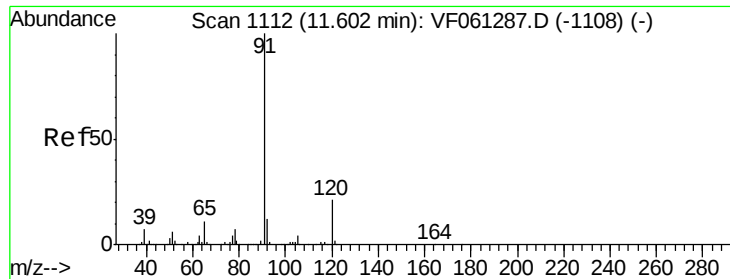


#73

Isopropylbenzene
Concen: 1.706 ug/l
RT: 11.11 min Scan# 1063
Delta R.T. -0.02 min
Lab File: VF061368.D
Acq: 11 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.9	12.9	38.7





#78

n-propylbenzene

Concen: 4.691 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VF061368.D

Acq: 11 Jan 2019 15:13

Instrument :

MSVOA_F

ClientSampleId :

DS-B

Tot Ion: 91 Resp: 28826

Ion Ratio Lower Upper

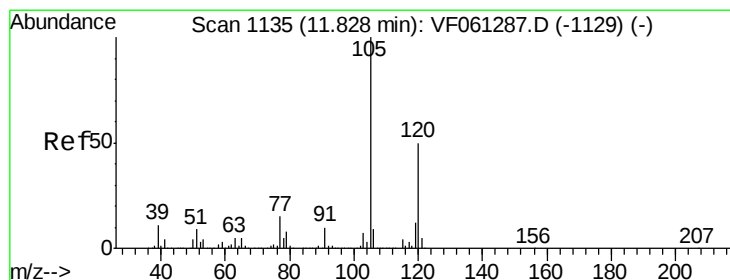
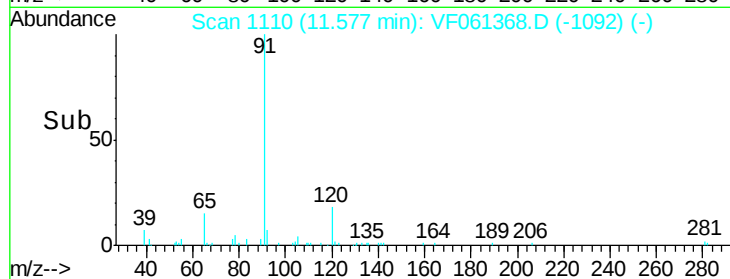
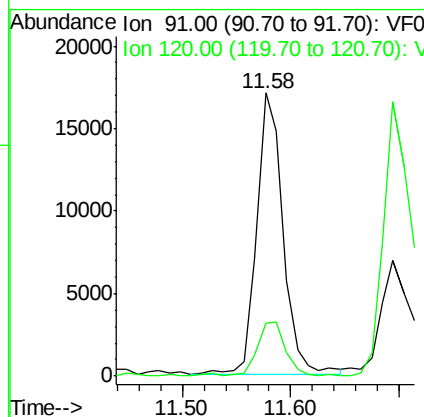
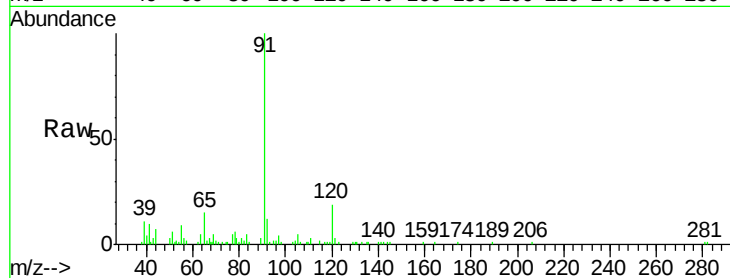
91 100

120 18.6 10.7 32.1

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#80

1,3,5-Trimethylbenzene

Concen: 8.026 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061368.D

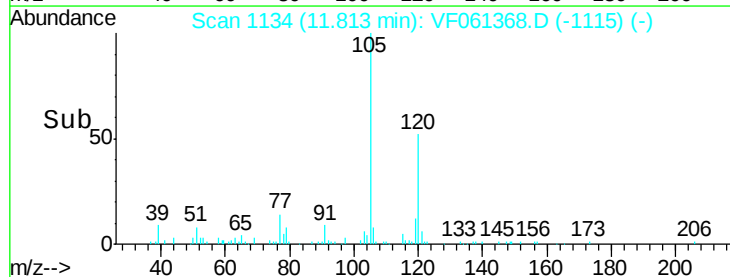
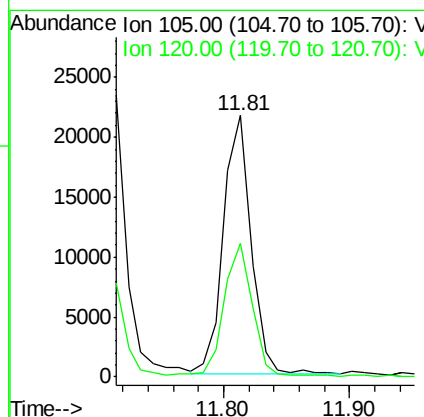
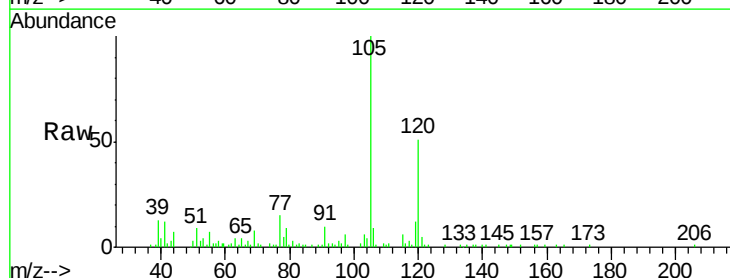
Acq: 11 Jan 2019 15:13

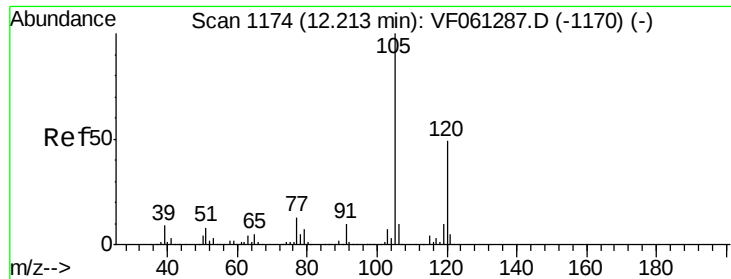
Tgt Ion: 105 Resp: 32912

Ion Ratio Lower Upper

105 100

120 51.3 25.2 75.6





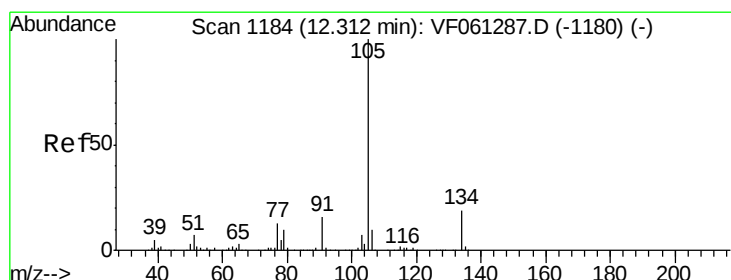
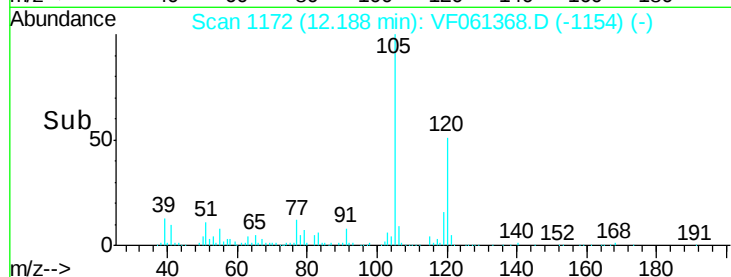
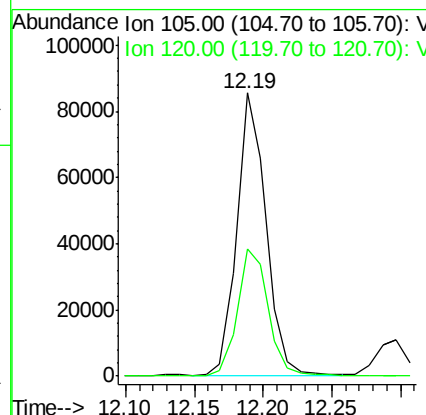
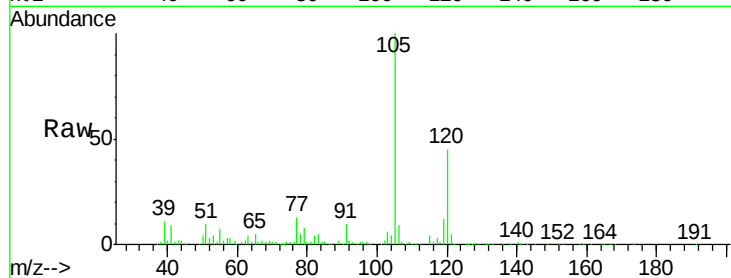
#84
 1,2,4-Trimethylbenzene
 Concen: 30.707 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: VF061368.D
 Acq: 11 Jan 2019 15:13

Instrument :
 MSVOA_F
 ClientSampled :
 DS-B

Tot Ion	Ratio	Lower	Upper
105	100		
120	45.0	24.7	74.1

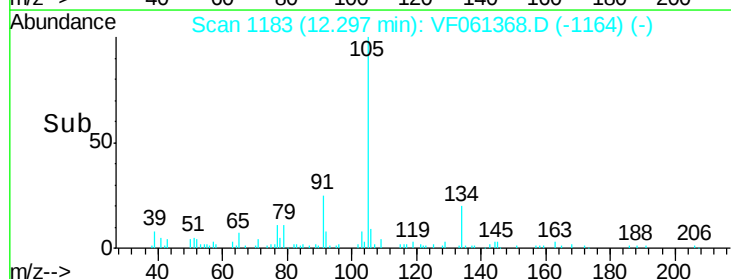
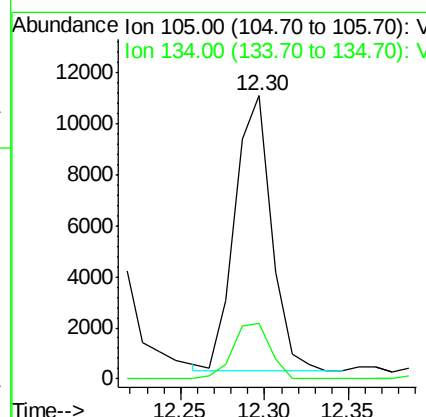
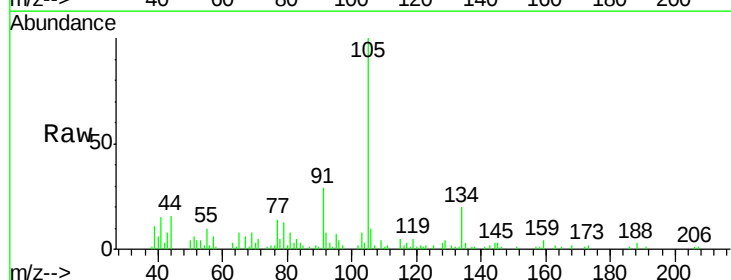
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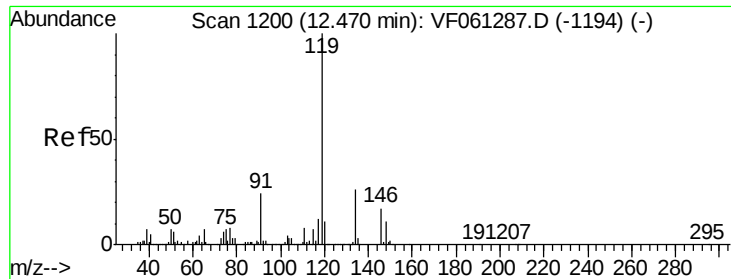
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#85
 sec-Butylbenzene
 Concen: 2.806 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: VF061368.D
 Acq: 11 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.7	28.9





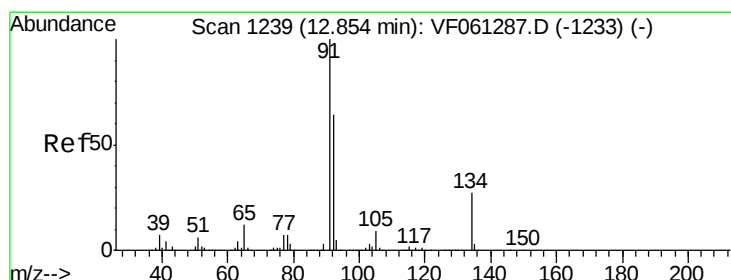
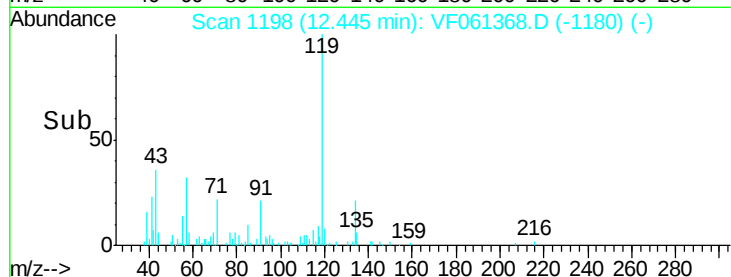
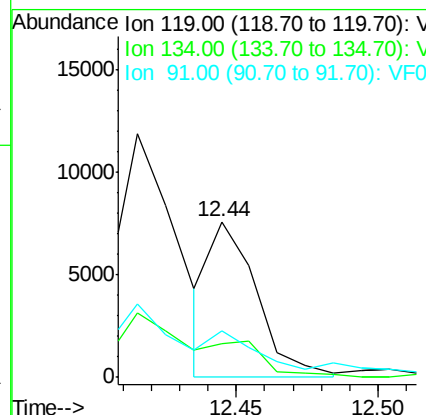
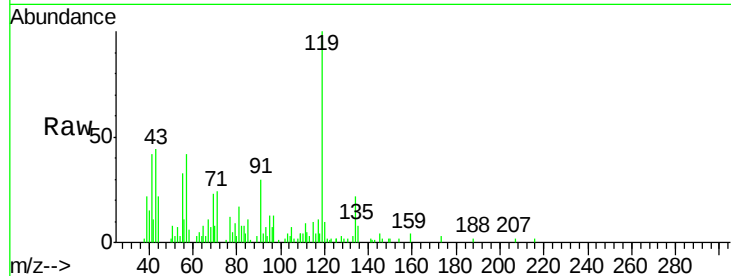
#86
 p-Isopropyltoluene
 Concen: 1.887 ug/l m
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: VF061368.D
 Acq: 11 Jan 2019 15:13

Instrument :
 MSVOA_F
 ClientSampleId :
 DS-B

Tot Ion	Ratio	Resp	Lower	Upper
119	100	8929		
134	21.9		13.0	39.0
91	29.8		12.2	36.4

Manual Integrations
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#89
 n-Butylbenzene
 Concen: 5.827 ug/l
 RT: 12.83 min Scan# 1237
 Delta R.T. -0.02 min
 Lab File: VF061368.D
 Acq: 11 Jan 2019 15:13

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	28330		
92	52.2		32.1	96.3
134	51.2		13.4	40.1#

