

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020819\
 Data File : VF061566.D
 Acq On : 8 Feb 2019 19:14
 Operator : VA/AP
 Sample : K1450-01
 Misc : 5.74g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SHORE-RD-BOX-CULVERT-TP

Manual Integrations
 APPROVED

MMDadoda
 2/12/2019 2:32:11 AM

Quant Time: Feb 09 05:33:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	191763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	324773	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	311963	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	164897	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	104455	44.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.24%	
35) Dibromofluoromethane	4.11	113	106767	41.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.32%	
50) Toluene-d8	7.55	98	259723	36.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.98%	
62) 4-Bromofluorobenzene	11.41	95	138816	42.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.62%	
Target Compounds						
						Qvalue
31) Cyclohexane	3.68	56	139716	36.717	ug/l	98
39) Methylcyclohexane	5.45	83	362781m	88.899	ug/l	
40) Benzene	4.62	78	606475	72.380	ug/l	99
52) Toluene	7.62	92	21811	3.953	ug/l	95
67) Ethyl Benzene	9.89	91	36216	3.125	ug/l	91
68) m/p-Xylenes	10.13	106	99836	23.948	ug/l	96
69) o-Xylene	10.71	106	13397	2.965	ug/l	97
73) Isopropylbenzene	11.12	105	85590	6.382	ug/l	97
78) n-propylbenzene	11.59	91	249102	14.125	ug/l	94
84) 1,2,4-Trimethylbenzene	12.20	105	12745	1.143	ug/l	93
85) sec-Butylbenzene	12.30	105	24542	1.613	ug/l #	66
89) n-Butylbenzene	12.84	91	33234	2.580	ug/l	94
95) Naphthalene	14.45	128	77681	11.016	ug/l #	95

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

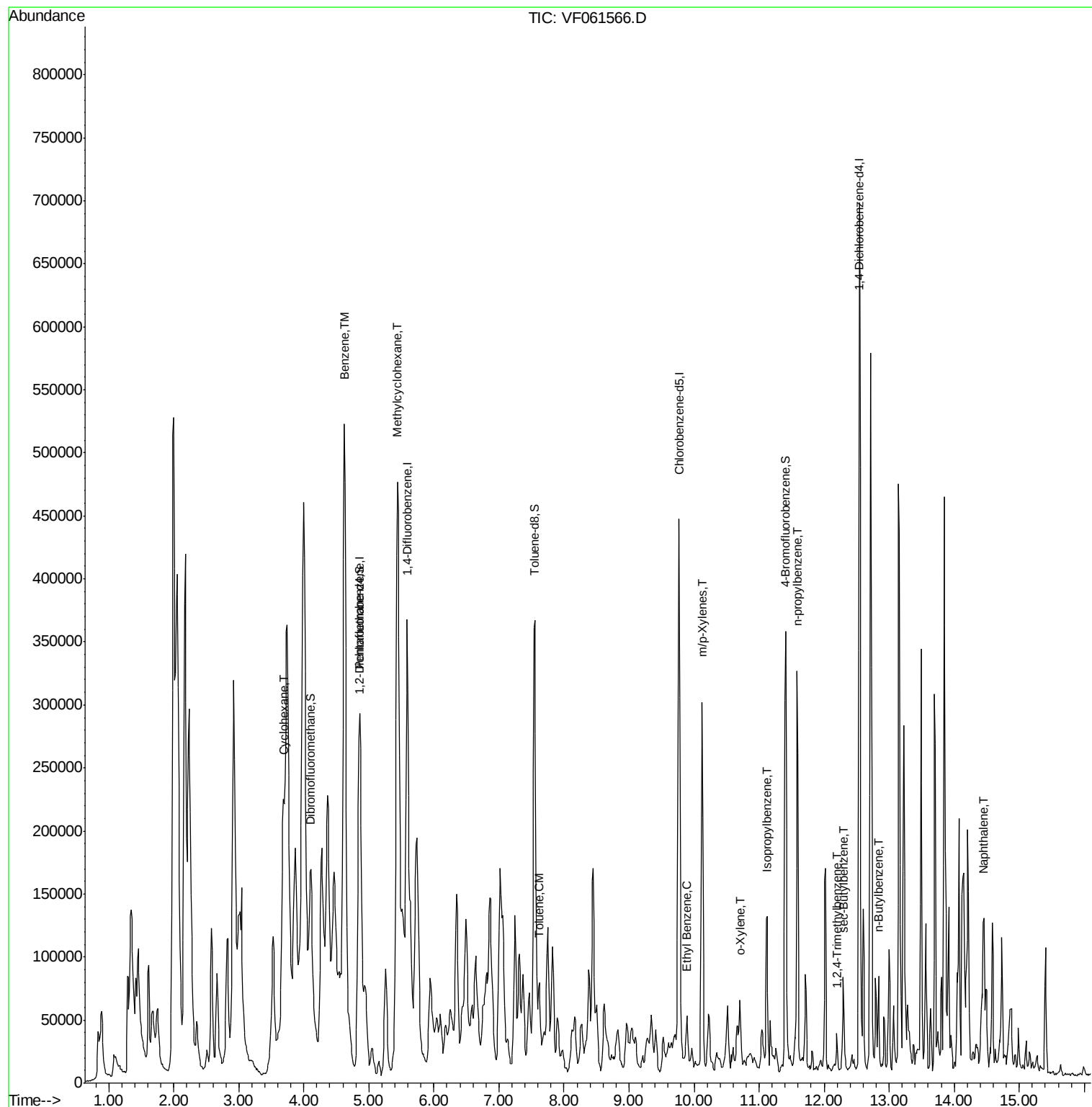
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF020819\
Data File : VF061566.D
Acq On : 8 Feb 2019 19:14
Operator : VA/AP
Sample : K1450-01
Misc : 5.74g/5mL/MSVOA-F/SOIL
ALS Vial : 9 Sample Multiplier: 1

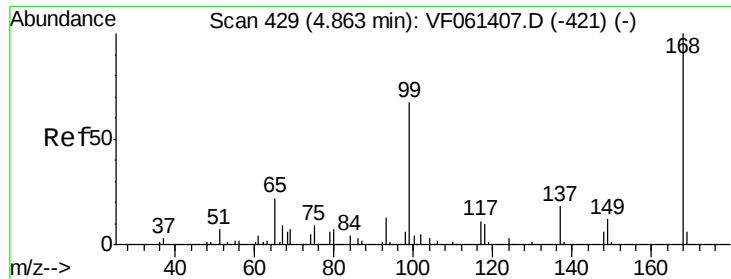
Instrument :
MSVOA_F
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

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2/12/2019 2:32:11 AM

Quant Time: Feb 09 05:33:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

Instrument :

MSVOA_F

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion:168 Resp: 191763

Ion Ratio Lower Upper

168 100

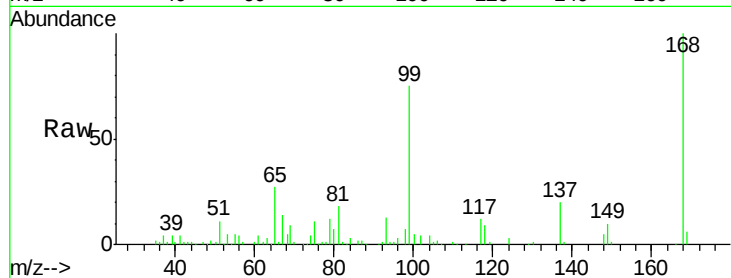
99 74.6 53.5 80.3

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

4.86

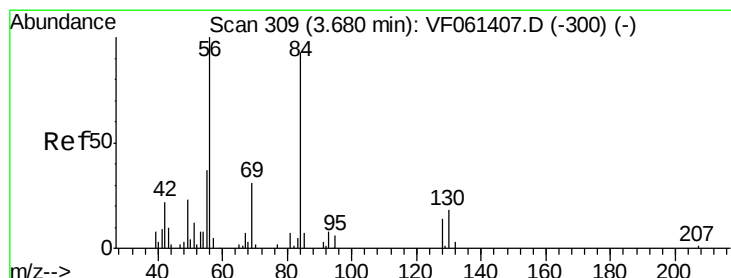
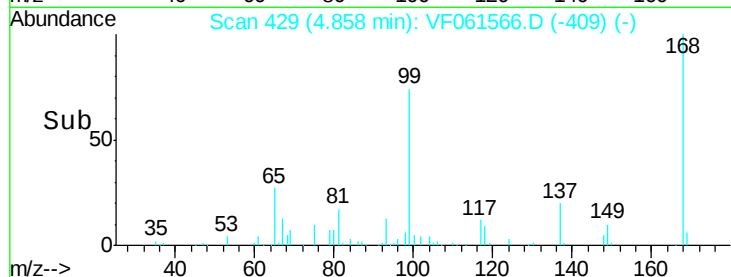
60000

40000

20000

0

Time-->



#31

Cyclohexane

Concen: 36.717 ug/l

RT: 3.68 min Scan# 310

Delta R.T. 0.00 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

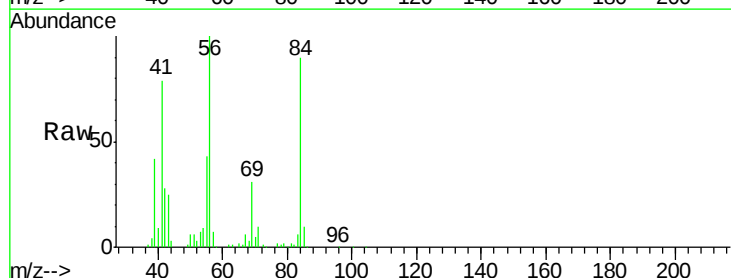
Tgt Ion: 56 Resp: 139716

Ion Ratio Lower Upper

56 100

69 30.6 24.6 36.8

84 89.8 74.2 111.2



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

3.68

50000

40000

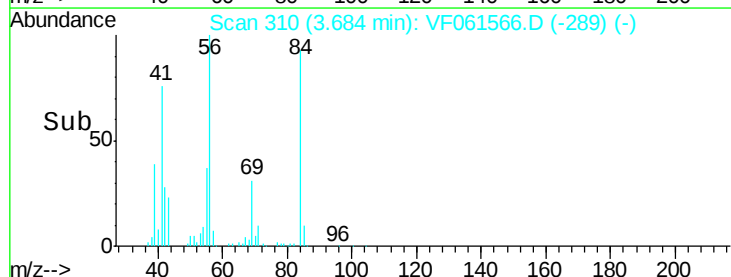
30000

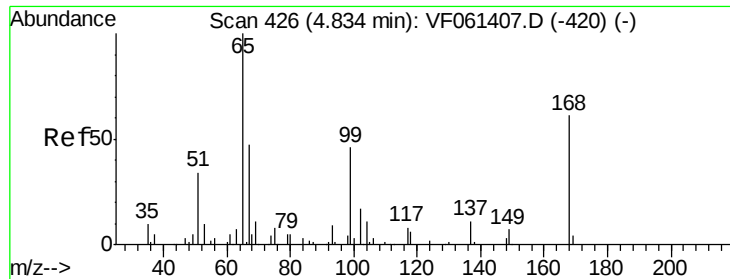
20000

10000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 44.119 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.00 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

Instrument :

MSVOA_F

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion: 65 Resp: 104455

Ion Ratio Lower Upper

65 100

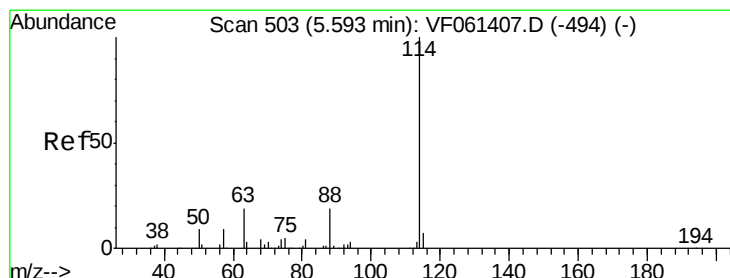
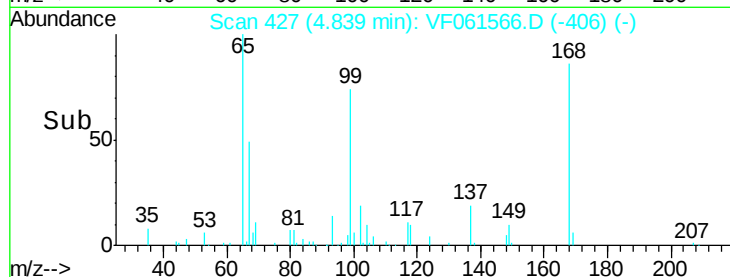
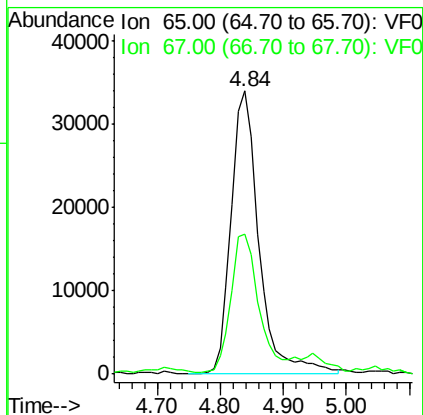
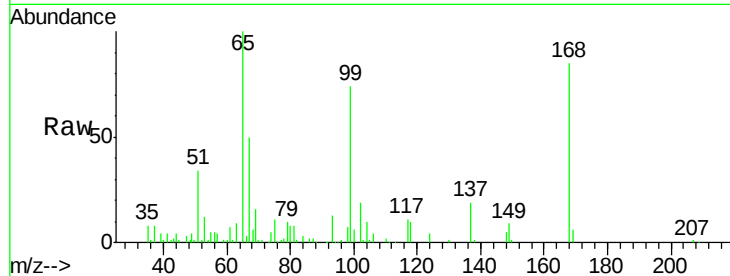
67 49.6 0.0 99.8

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

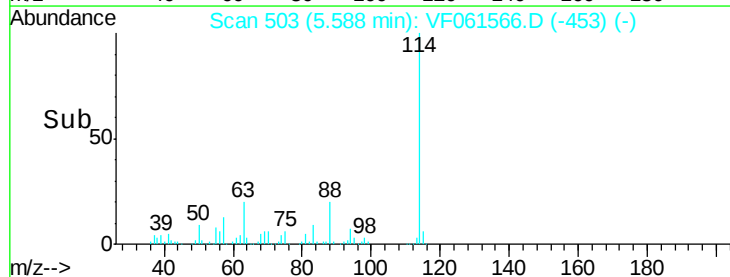
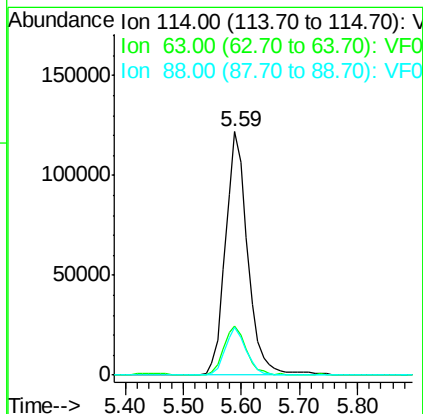
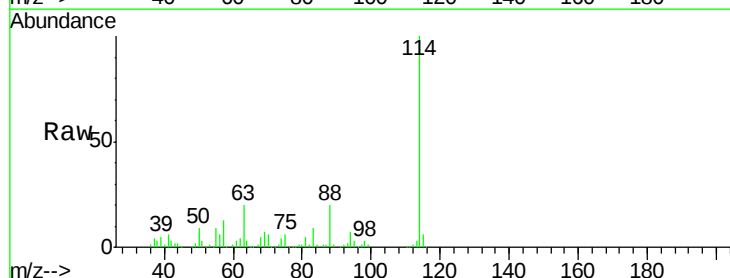
Tgt Ion: 114 Resp: 324773

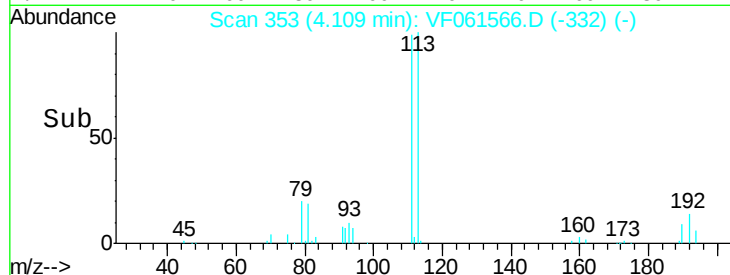
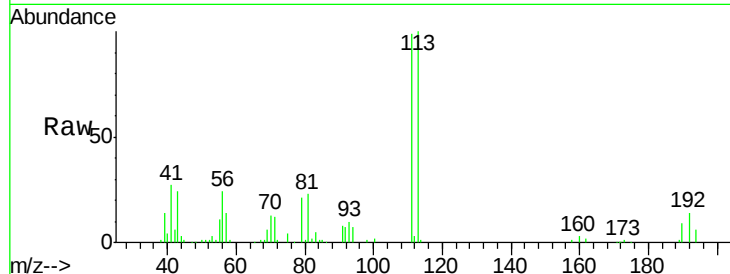
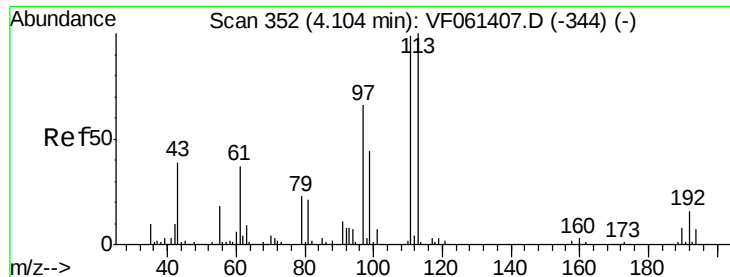
Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.0

88 19.7 0.0 37.4





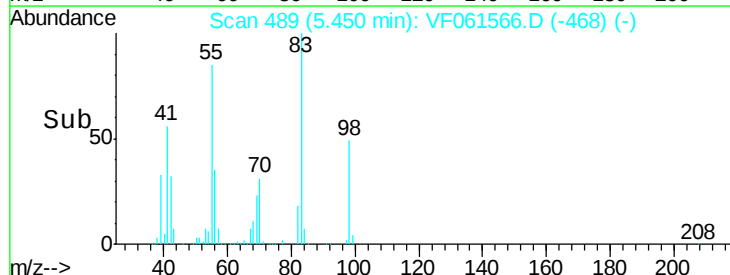
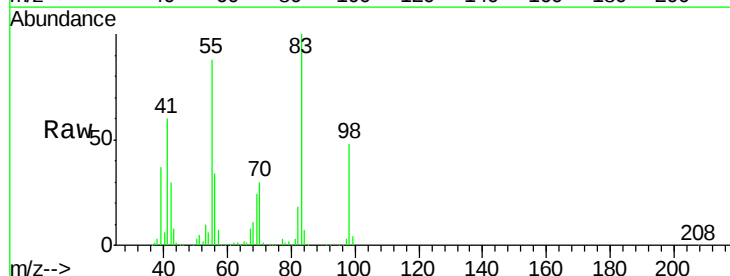
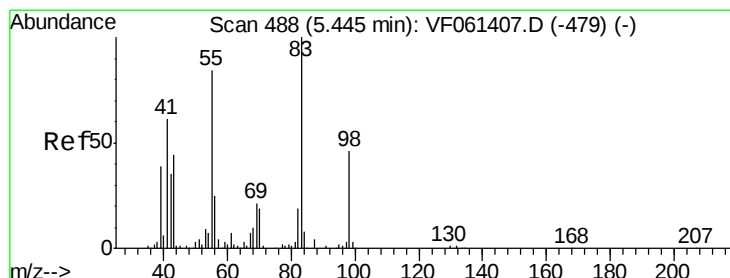
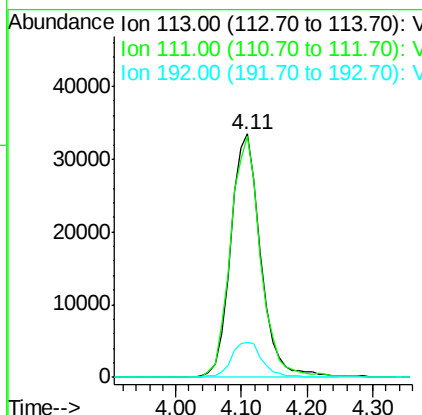
#35
Dibromofluoromethane
Concen: 41.661 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF061566.D
Acq: 8 Feb 2019 19:14

Tot Ion	Ratio	Resp	Lower	Upper
113	100	106767		
111	99.0		79.4	119.0
192	14.2		12.4	18.6

Instrument :
MSVOA_F
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SHORE-RD-BOX-CULVERT-TP

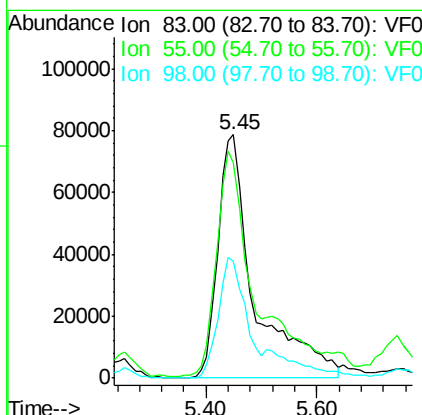
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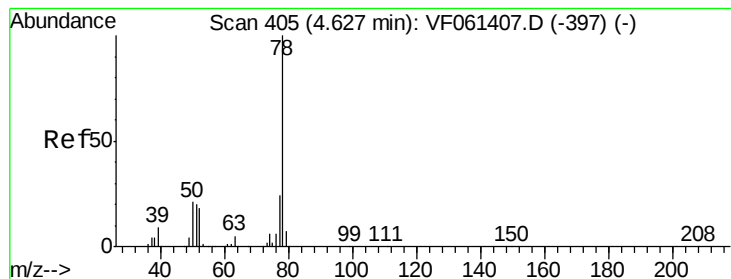
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#39
Methylcyclohexane
Concen: 88.899 ug/l m
RT: 5.45 min Scan# 489
Delta R.T. 0.00 min
Lab File: VF061566.D
Acq: 8 Feb 2019 19:14

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	362781		
55	88.5		67.4	101.2
98	48.2		36.7	55.1





#40

Benzene

Concen: 72.380 ug/l

RT: 4.62 min Scan# 405

Delta R.T. -0.01 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

Instrument :

MSVOA_F

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion: 78 Resp: 606475

Ion Ratio Lower Upper

78 100

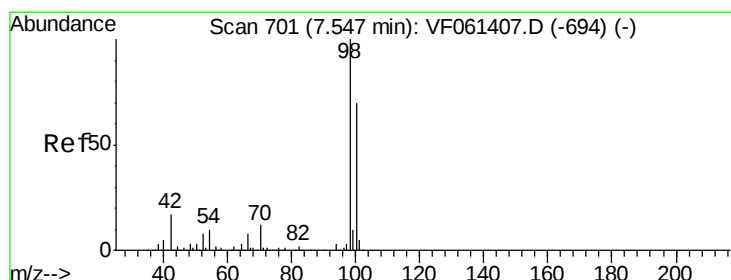
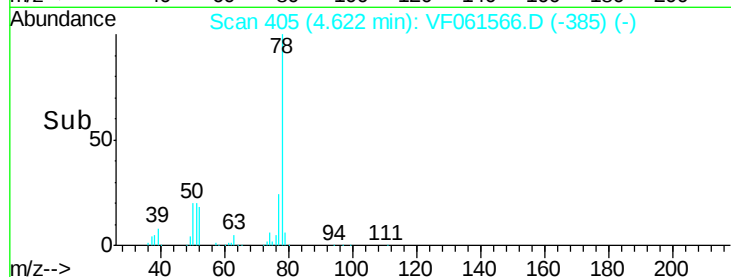
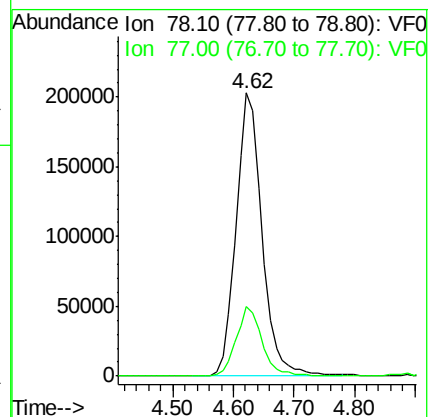
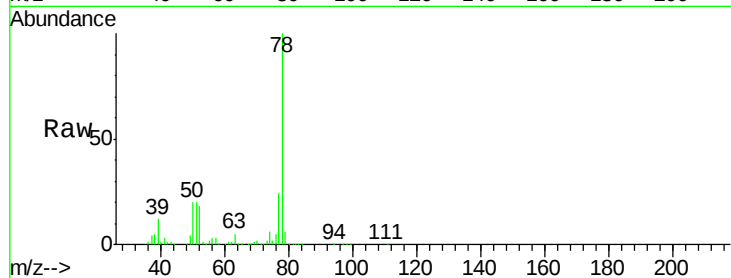
77 24.4 19.0 28.6

Manual Integrations

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#50

Toluene-d8

Concen: 36.990 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF061566.D

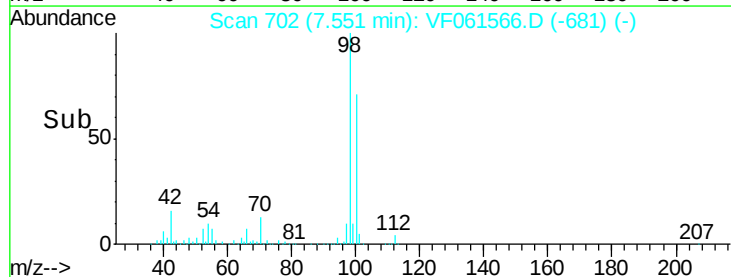
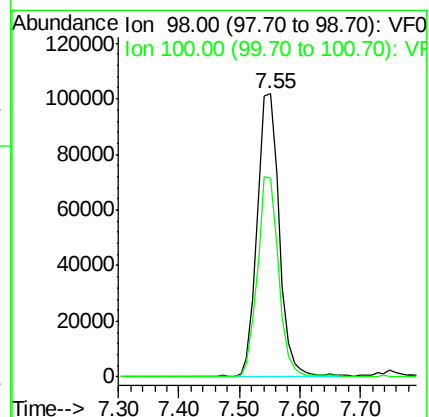
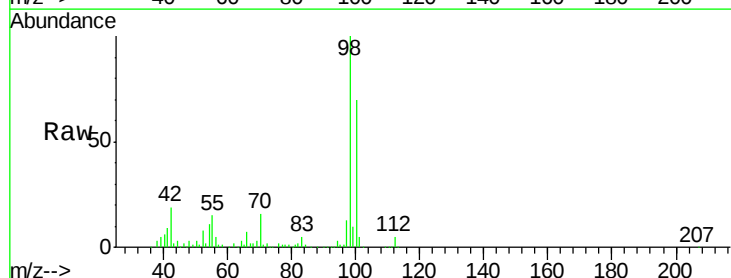
Acq: 8 Feb 2019 19:14

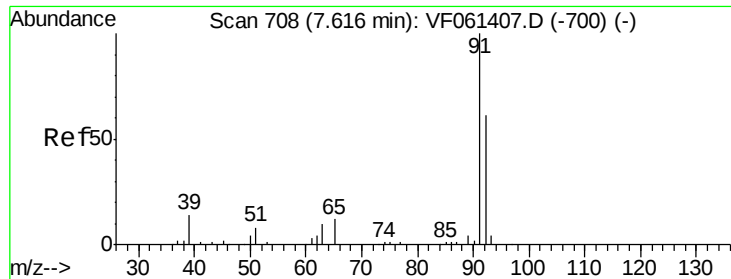
Tgt Ion: 98 Resp: 259723

Ion Ratio Lower Upper

98 100

100 70.3 55.6 83.4





#52

Toluene

Concen: 3.953 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.00 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

Instrument :

MSVOA_F

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion: 92 Resp: 21811

Ion Ratio Lower Upper

92 100

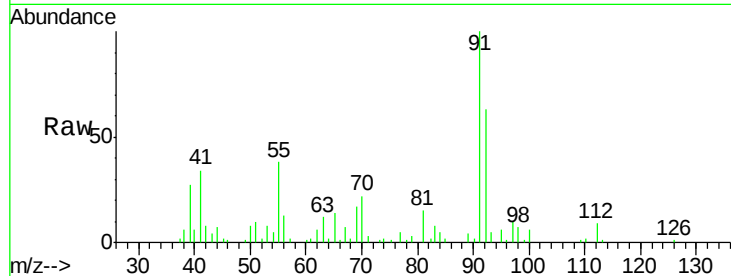
91 157.9 131.2 196.8

Manual Integrations

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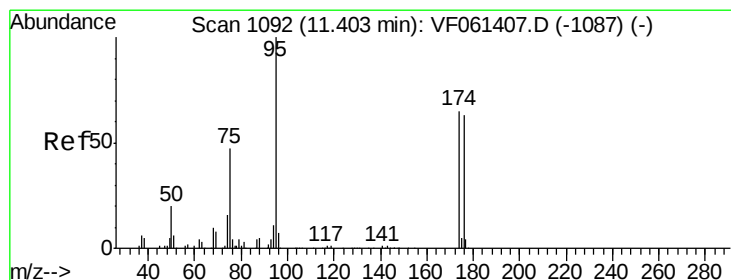
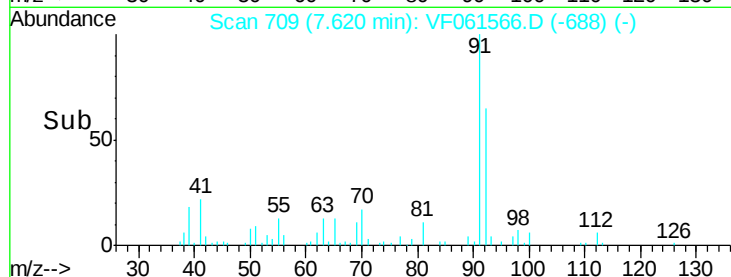
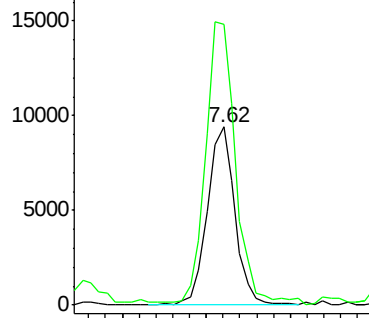
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Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#62

4-Bromofluorobenzene

Concen: 42.314 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

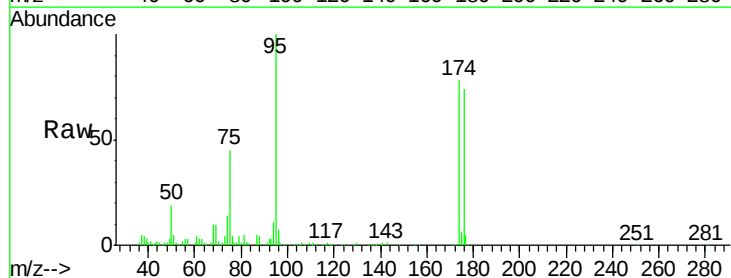
Tgt Ion: 95 Resp: 138816

Ion Ratio Lower Upper

95 100

174 77.6 0.0 130.4

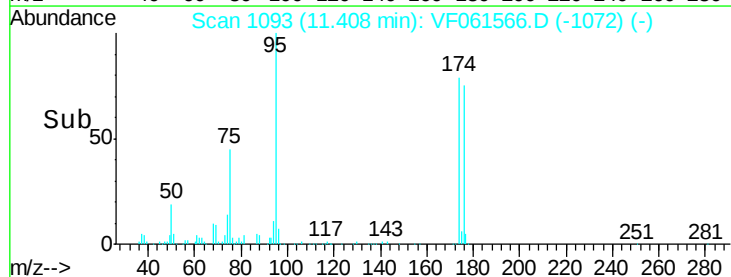
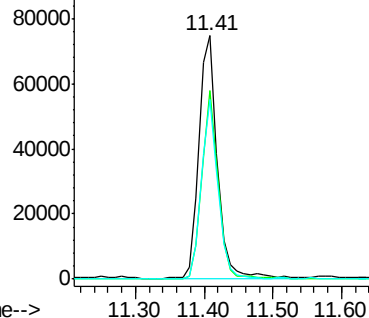
176 73.7 0.0 126.2

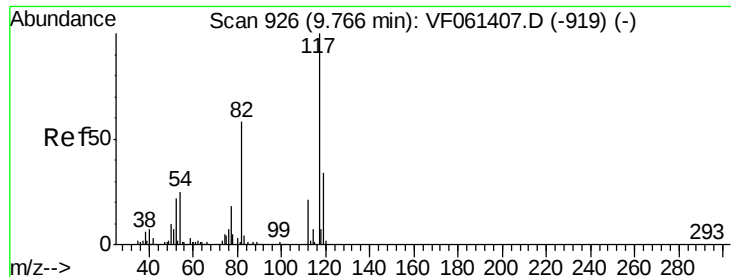


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





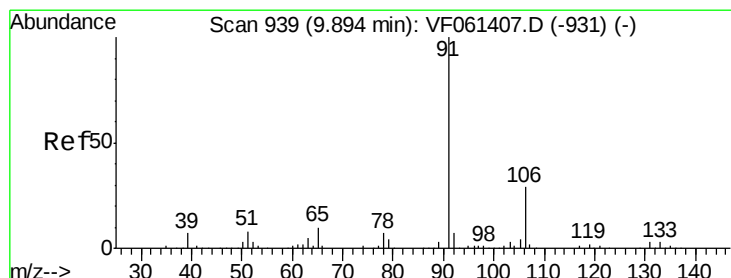
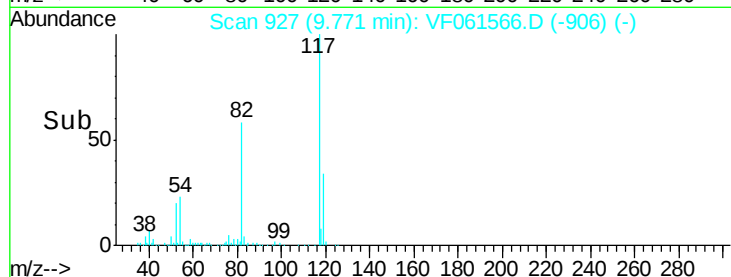
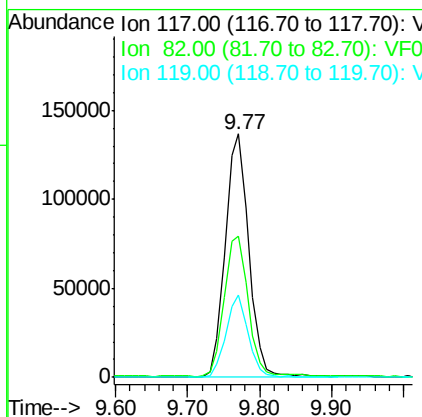
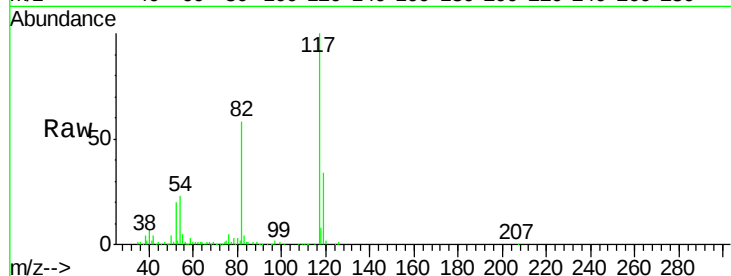
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VF061566.D
Acq: 8 Feb 2019 19:14

Instrument :
MSVOA_F
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Tot Ion	Ratio	Resp	Lower	Upper
117	100	311963		
82	58.1	46.4	69.6	
119	33.6	27.2	40.8	

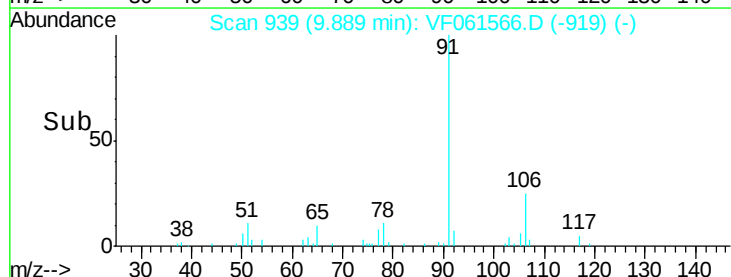
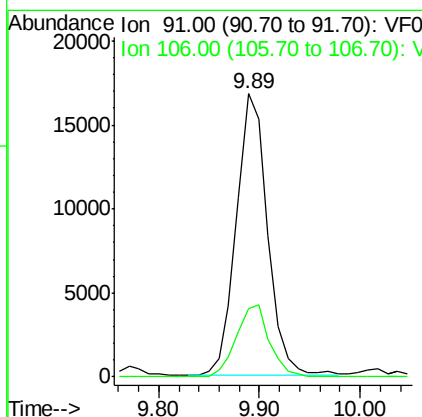
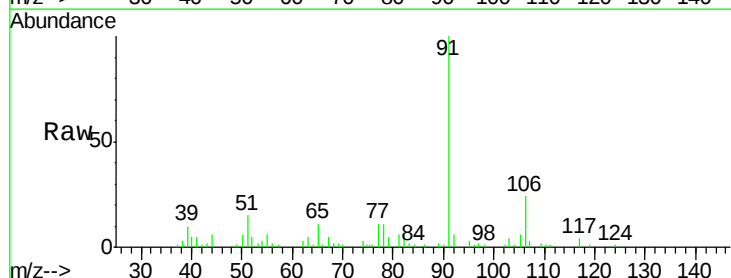
Manual Integrations
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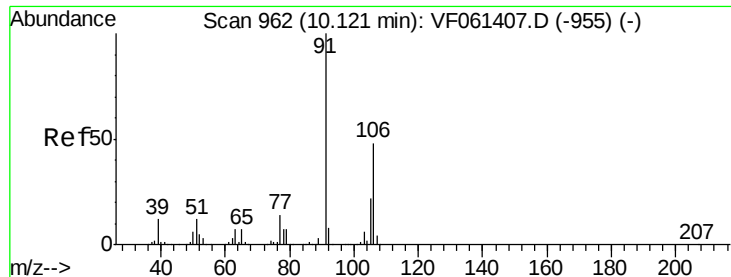
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2/12/2019 2:32:11 AM



#67
Ethyl Benzene
Concen: 3.125 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.01 min
Lab File: VF061566.D
Acq: 8 Feb 2019 19:14

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	36216		
106	24.2	23.1	34.7	





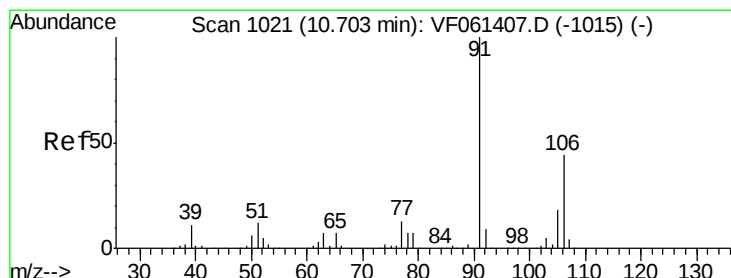
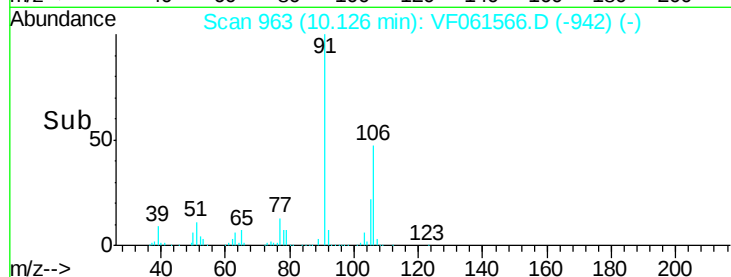
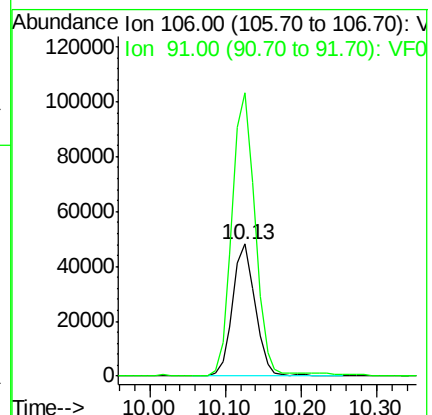
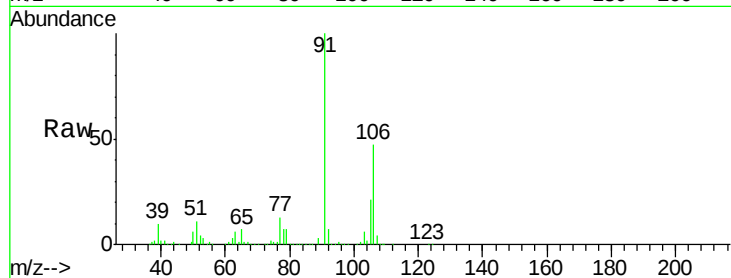
#68
m/p-Xylenes
Concen: 23.948 ug/l
RT: 10.13 min Scan# 963
Delta R.T. 0.00 min
Lab File: VF061566.D
Acq: 8 Feb 2019 19:14

Instrument :
MSVOA_F
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	214.8	166.2	99836	249.4	

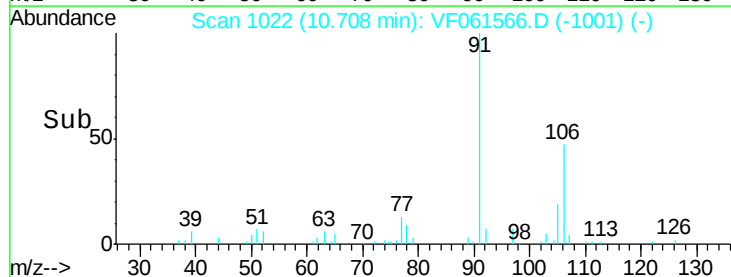
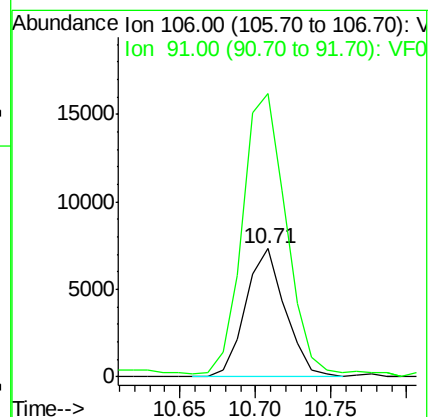
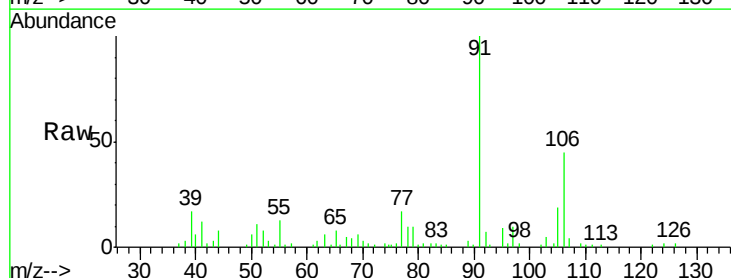
Manual Integrations
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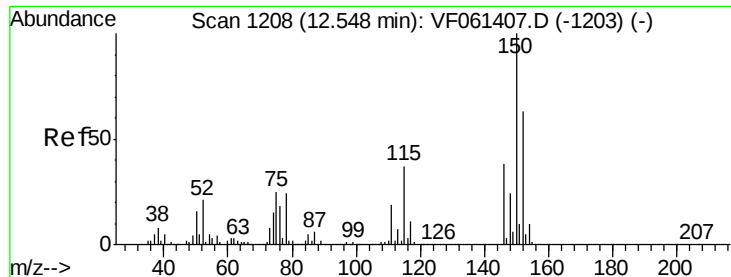
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#69
o-Xylene
Concen: 2.965 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.00 min
Lab File: VF061566.D
Acq: 8 Feb 2019 19:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	221.0	113.3	13397	339.8	





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

Instrument :

MSVOA_F

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion:152 Resp: 164897

Ion Ratio Lower Upper

152 100

115 63.2 30.0 90.0

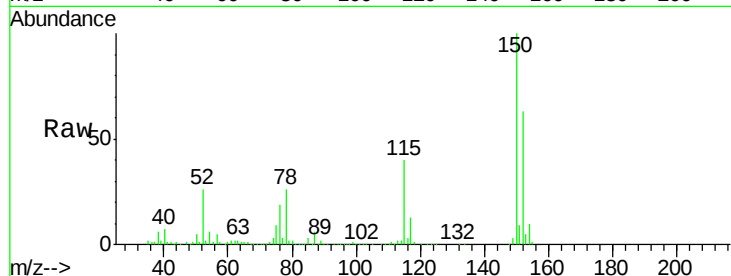
150 159.5 0.0 321.4

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Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

200000

150000

100000

50000

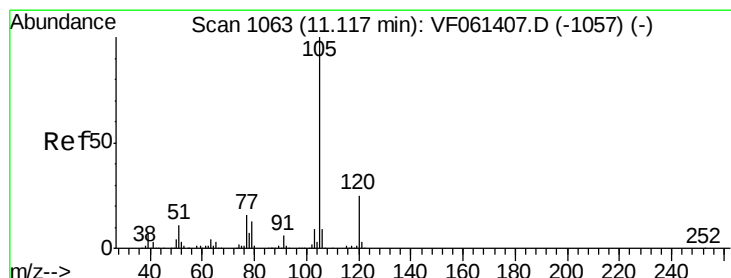
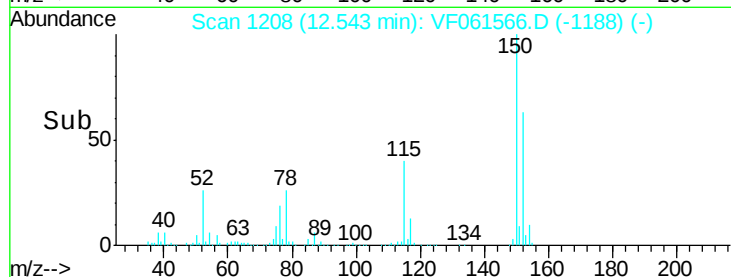
0

12.54

12.50

12.60

Time-->



#73

Isopropylbenzene

Concen: 6.382 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VF061566.D

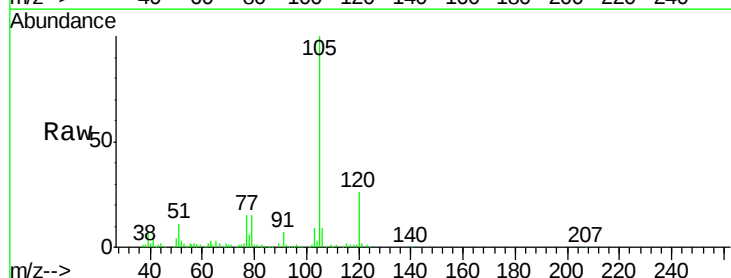
Acq: 8 Feb 2019 19:14

Tgt Ion:105 Resp: 85590

Ion Ratio Lower Upper

105 100

120 26.5 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

50000

40000

30000

20000

10000

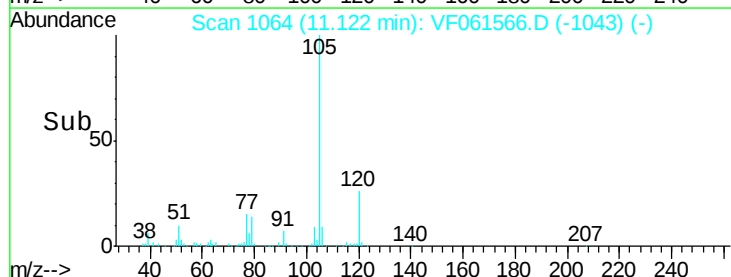
0

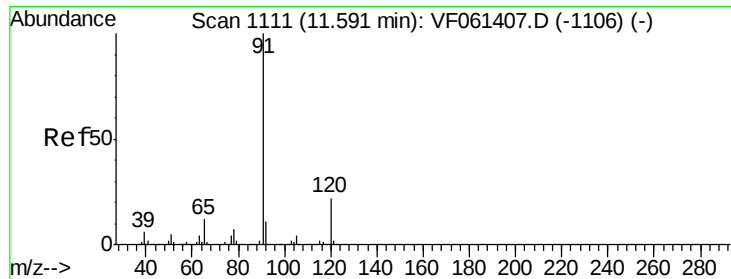
11.12

11.00

11.20

Time-->





#78

n-propylbenzene

Concen: 14.125 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

Instrument :

MSVOA_F

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion: 91 Resp: 249102

Ion Ratio Lower Upper

91 100

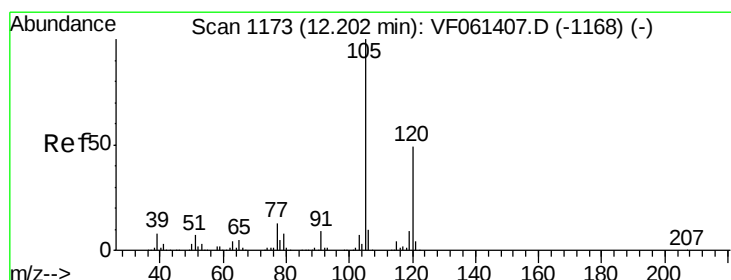
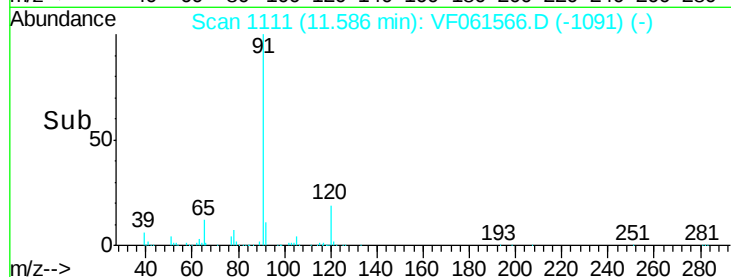
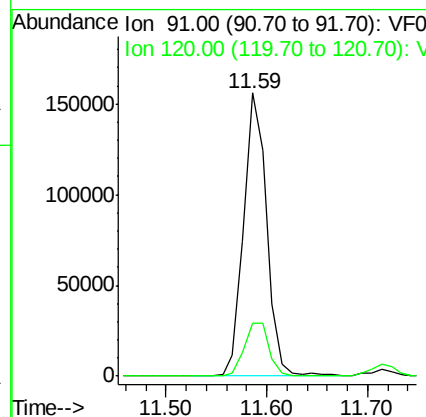
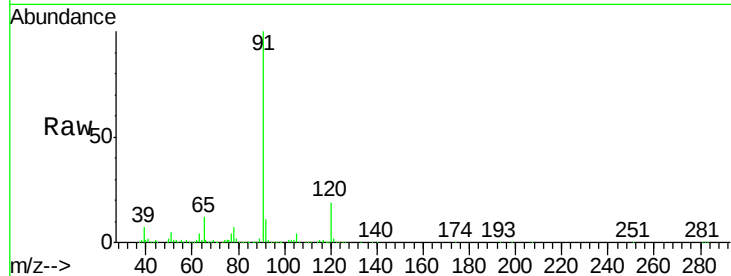
120 18.6 10.9 32.6

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#84

1,2,4-Trimethylbenzene

Concen: 1.143 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.01 min

Lab File: VF061566.D

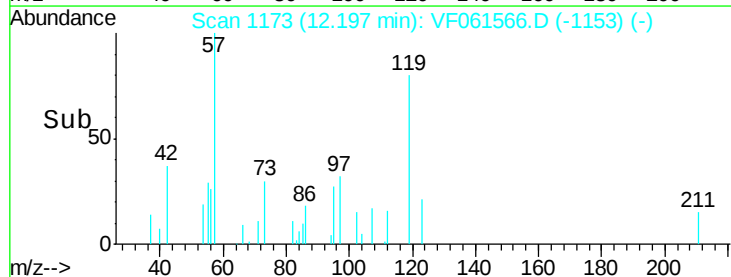
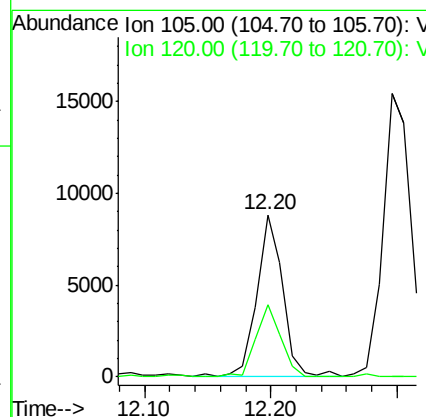
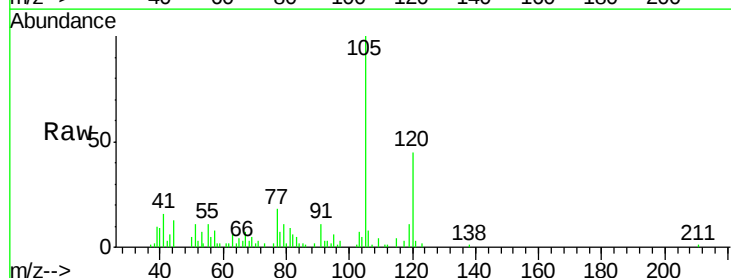
Acq: 8 Feb 2019 19:14

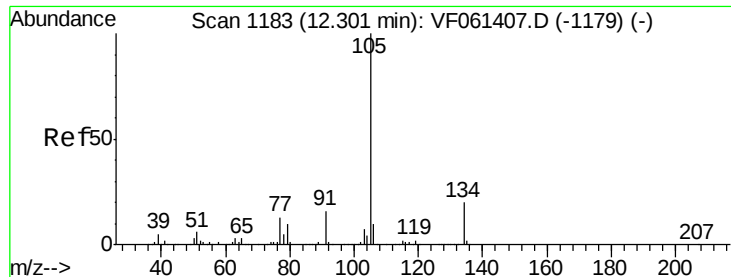
Tgt Ion: 105 Resp: 12745

Ion Ratio Lower Upper

105 100

120 44.7 24.9 74.6





#85

sec-Butylbenzene

Concen: 1.613 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

Instrument :

MSVOA_F

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion:105 Resp: 24542

Ion Ratio Lower Upper

105 100

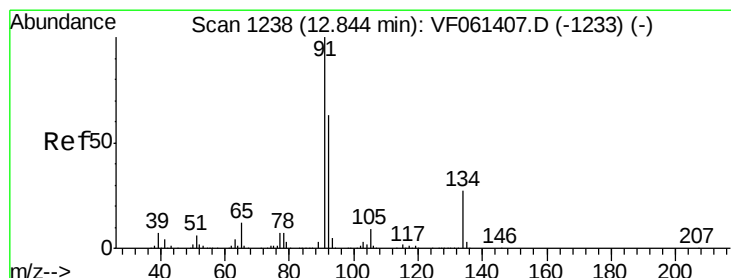
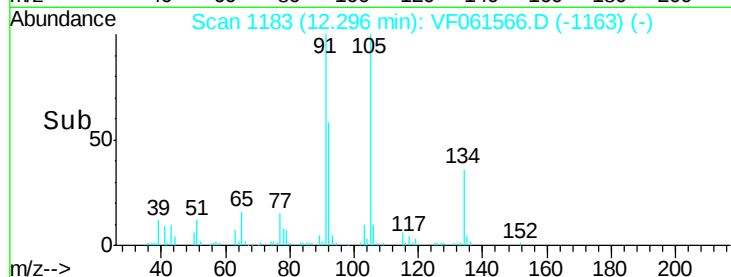
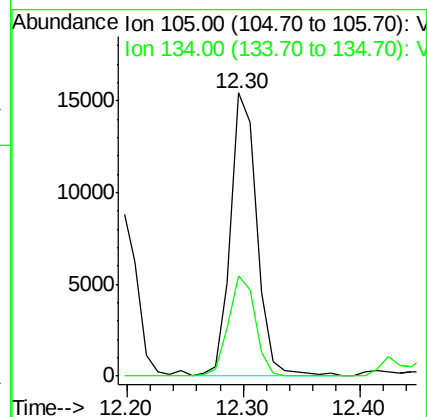
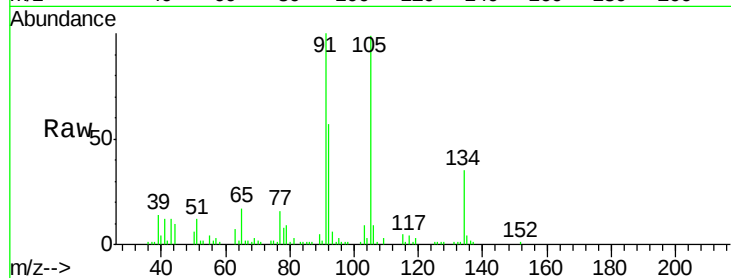
134 35.7 10.0 30.0#

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#89

n-Butylbenzene

Concen: 2.580 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VF061566.D

Acq: 8 Feb 2019 19:14

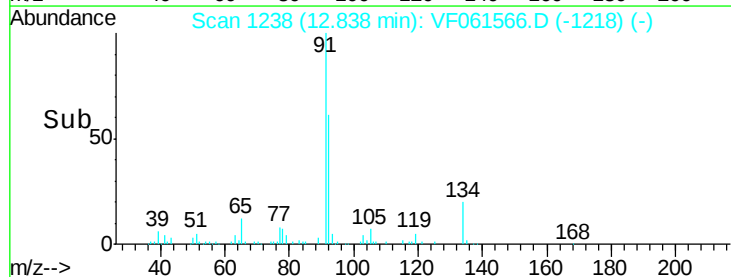
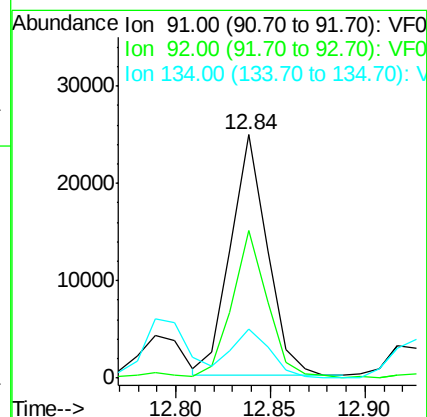
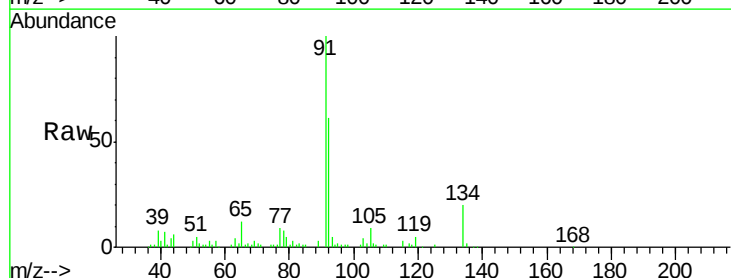
Tgt Ion: 91 Resp: 33234

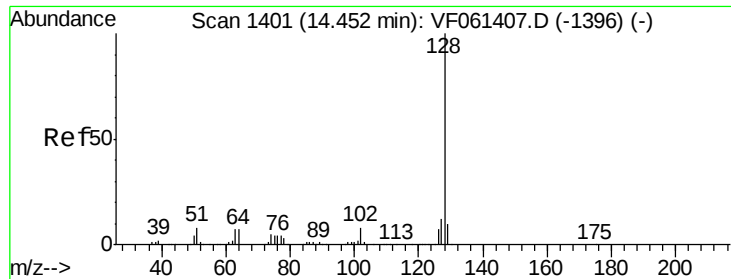
Ion Ratio Lower Upper

91 100

92 60.7 31.6 94.7

134 20.0 13.6 40.8





#95
Naphthalene
Concen: 11.016 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.01 min
Lab File: VF061566.D
Acq: 8 Feb 2019 19:14

Instrument :
MSVOA_F
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	11.3	9.5	14.3
129	13.5	8.4	12.6#

Manual Integrations
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