

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011819\
 Data File : VF061462.D
 Acq On : 18 Jan 2019 16:32
 Operator : VA/AP
 Sample : K1015-11RE
 Misc : 6.36g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-01-011719-BRE

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 11:11:38 AM

Quant Time: Jan 19 04:33:53 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	4.87	168	195511	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.59	114	376827	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	304745	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	151871	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	149228	61.82	ug/l	0.01
Spiked Amount 50.000			Recovery	=	123.64%	
35) Dibromofluoromethane	4.11	113	165607	55.69	ug/l	0.01
Spiked Amount 50.000			Recovery	=	111.38%	
50) Toluene-d8	7.56	98	369044	45.30	ug/l	0.01
Spiked Amount 50.000			Recovery	=	90.60%	
62) 4-Bromofluorobenzene	11.41	95	160273	42.11	ug/l	0.01
Spiked Amount 50.000			Recovery	=	84.22%	
Target Compounds						
					Qvalue	
16) Acetone	2.24	43	21131	43.637	ug/l #	88
20) Methylene Chloride	2.18	84	23776m	13.170	ug/l	
39) Methylcyclohexane	5.46	83	6467	1.366	ug/l	96
52) Toluene	7.63	92	6455	1.008	ug/l	96
68) m/p-Xylenes	10.13	106	9260	2.274	ug/l	82
69) o-Xylene	10.71	106	9806	2.222	ug/l	83
70) Styrene	10.79	104	6905	1.143	ug/l	94
80) 1,3,5-Trimethylbenzene	11.82	105	15888	1.594	ug/l	100
84) 1,2,4-Trimethylbenzene	12.20	105	43976	4.283	ug/l	94
95) Naphthalene	14.46	128	3596166	553.697	ug/l #	91

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

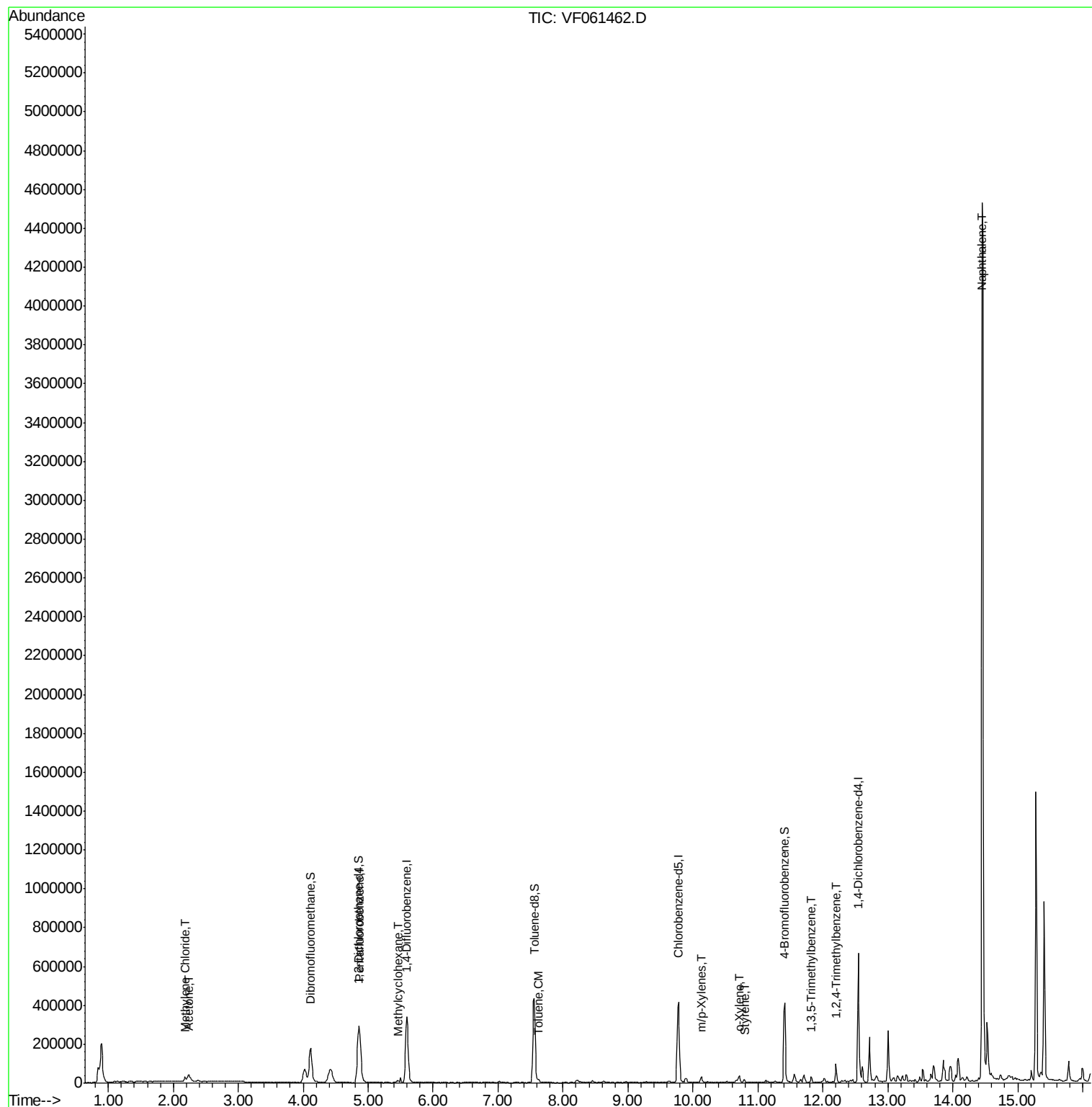
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011819\
Data File : VF061462.D
Acq On : 18 Jan 2019 16:32
Operator : VA/AP
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SU-01-011719-BRE

Manual Integrations
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1/21/2019 11:11:38 AM

Quant Time: Jan 19 04:33:53 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: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061462.D

Acq: 18 Jan 2019 16:32

Instrument :

MSVOA_F

ClientSampleId :

SU-01-011719-BRE

Tot Ion:168 Resp: 195511

Ion Ratio Lower Upper

168 100

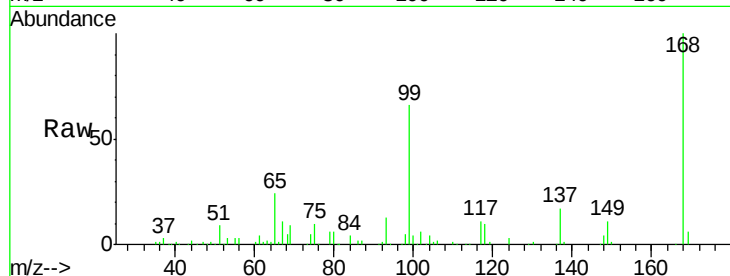
99 65.7 53.5 80.3

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

4.87

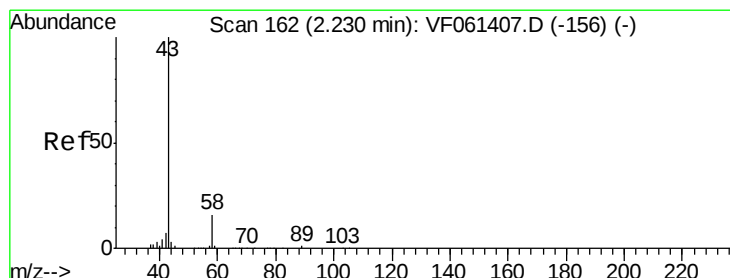
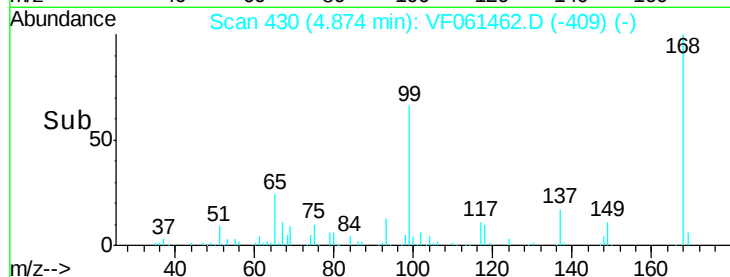
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 43.637 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061462.D

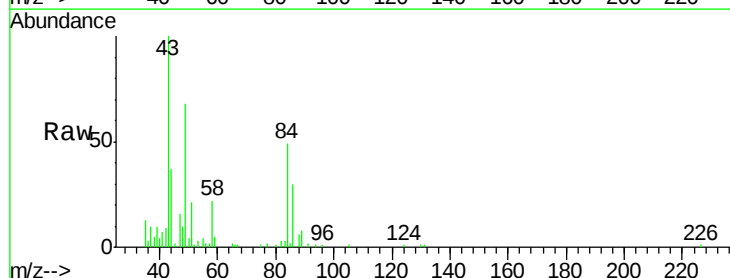
Acq: 18 Jan 2019 16:32

Tgt Ion: 43 Resp: 21131

Ion Ratio Lower Upper

43 100

58 21.7 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.24

10000

8000

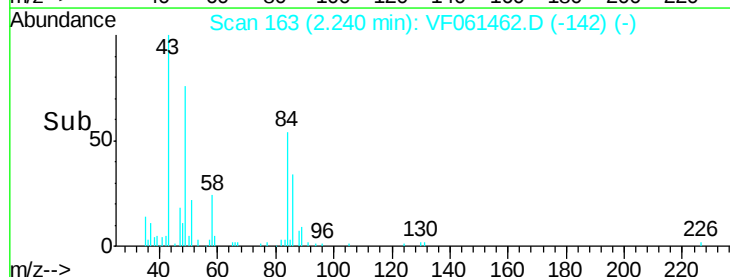
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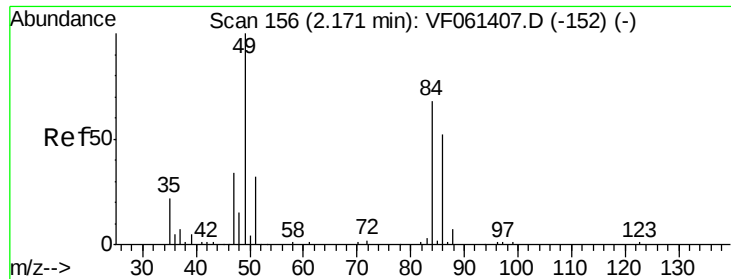
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2000

0

Time-->





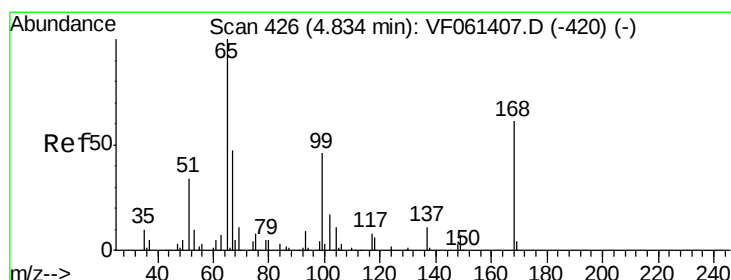
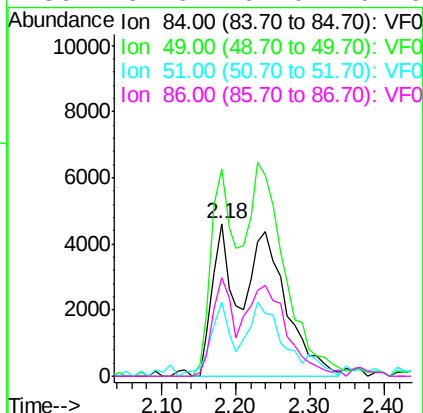
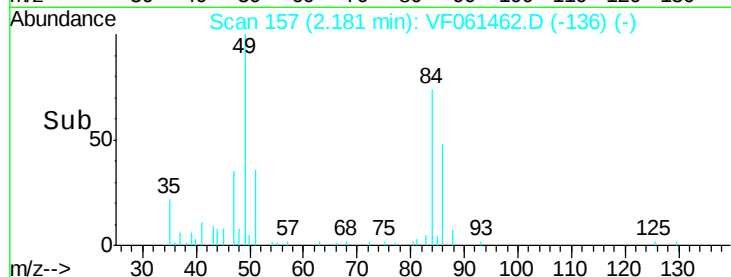
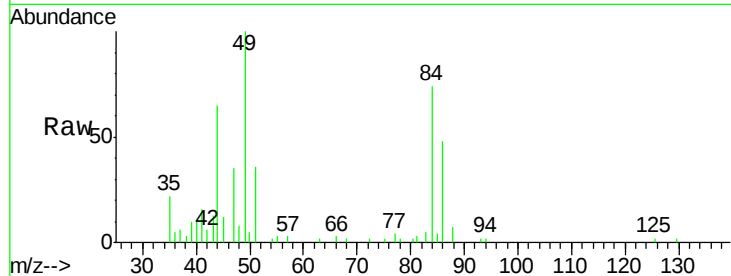
#20
Methvlene Chloride
Concen: 13.170 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061462.D
Acq: 18 Jan 2019 16:32

Instrument :
MSVOA_F
ClientSampleId :
SU-01-011719-BRE

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	135.6	120.0	180.0	
51	48.8	38.6	58.0	
86	64.6	61.0	91.6	

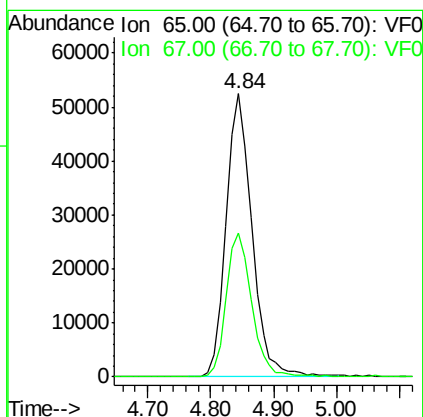
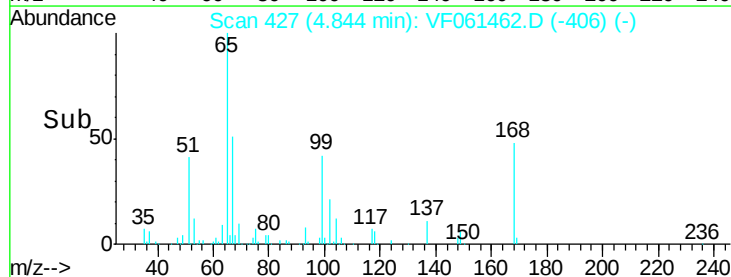
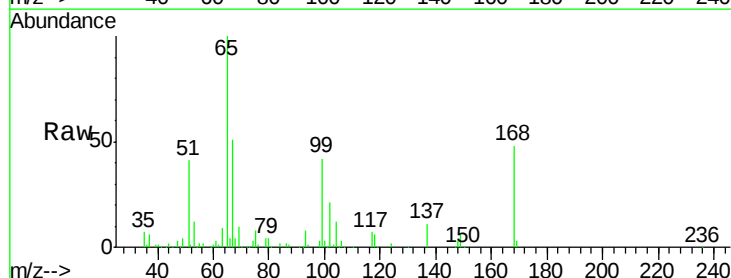
Manual Integrations
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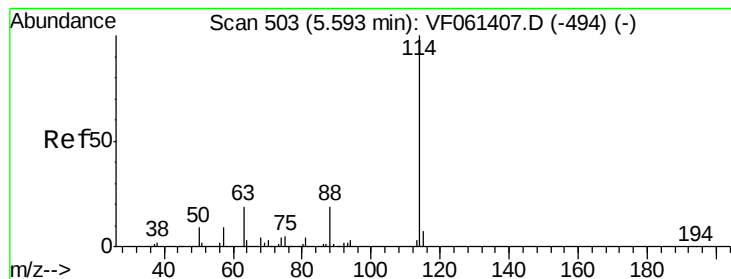
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#33
1,2-Dichloroethane-d4
Concen: 61.822 ug/l
RT: 4.84 min Scan# 427
Delta R.T. 0.01 min
Lab File: VF061462.D
Acq: 18 Jan 2019 16:32

Tgt Ion	Ion	Ratio	Lower	Upper
65	100			
67	50.7	0.0	99.8	





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. 0.00 min

Lab File: VF061462.D

Acq: 18 Jan 2019 16:32

Instrument :

MSVOA_F

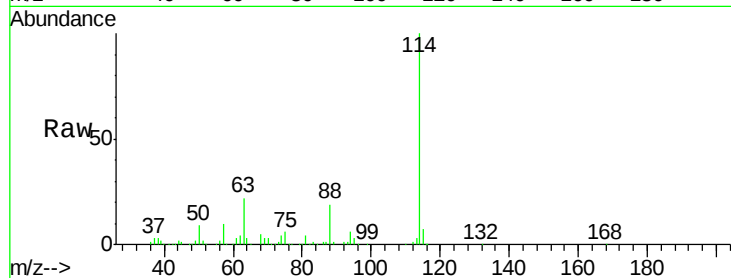
ClientSampleId :

SU-01-011719-BRE

Tot Ion:	114	Resp:	376827
Ion Ratio		Lower	Upper
114	100		
63	21.7	0.0	39.0
88	19.0	0.0	37.4

Manual Integrations
APPROVED

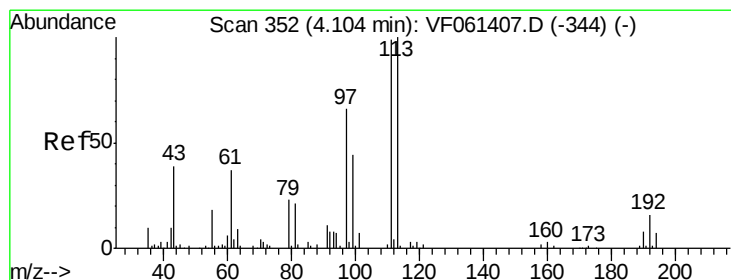
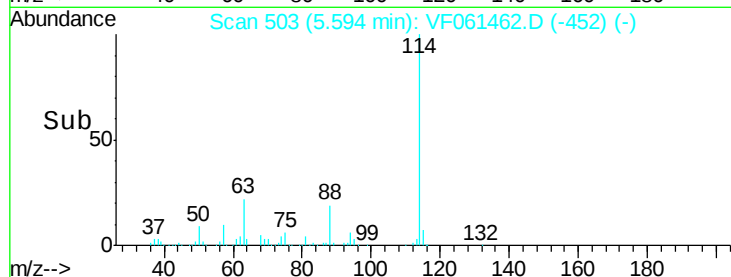
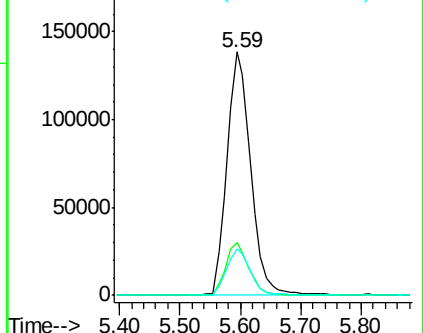
MMDadoda
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Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 55.695 ug/l

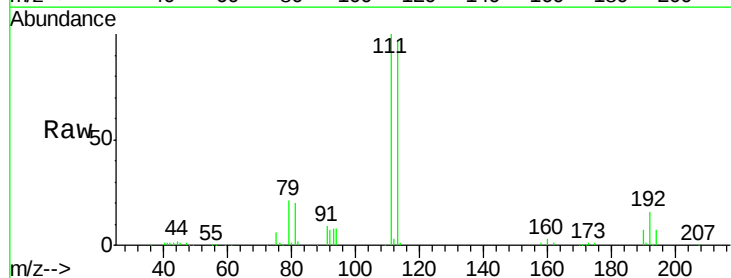
RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061462.D

Acq: 18 Jan 2019 16:32

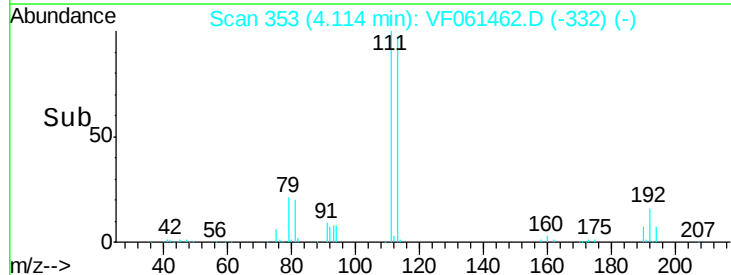
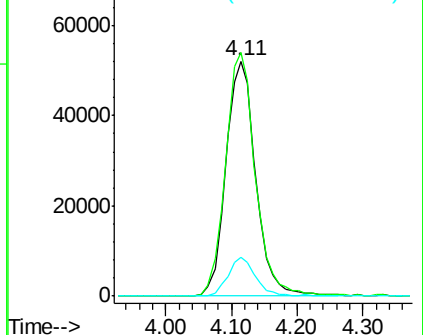
Tgt Ion:	113	Resp:	165607
Ion Ratio		Lower	Upper
113	100		
111	103.5	79.4	119.0
192	16.8	12.4	18.6

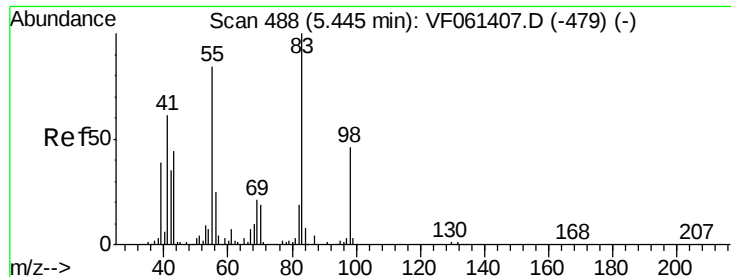


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





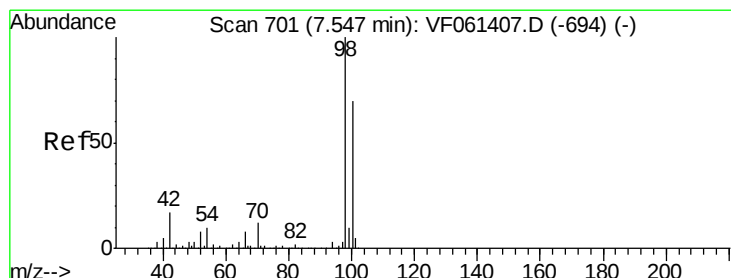
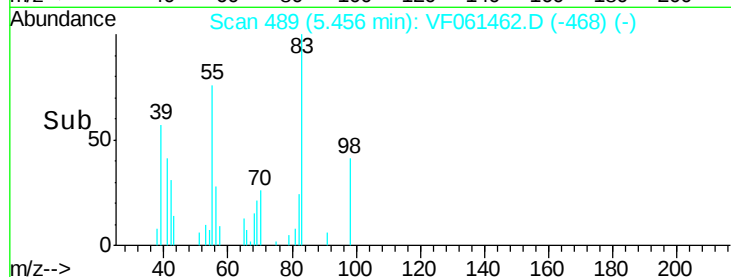
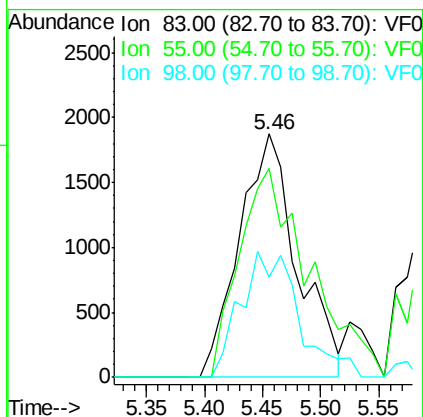
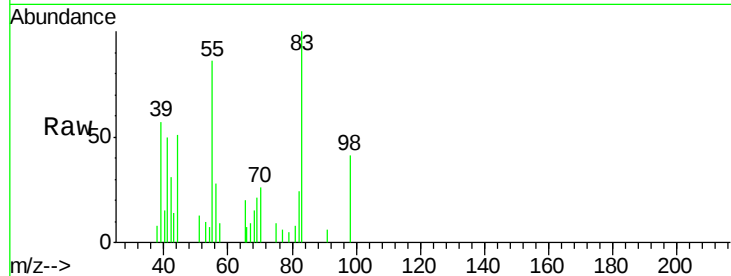
#39
Methvlcvclohexane
Concen: 1.366 ug/l
RT: 5.46 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061462.D
Acq: 18 Jan 2019 16:32

Instrument :
MSVOA_F
ClientSampleId :
SU-01-011719-BRE

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.9	67.4	101.2
98	41.0	36.7	55.1

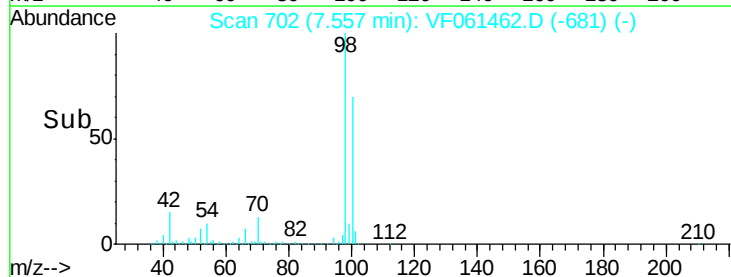
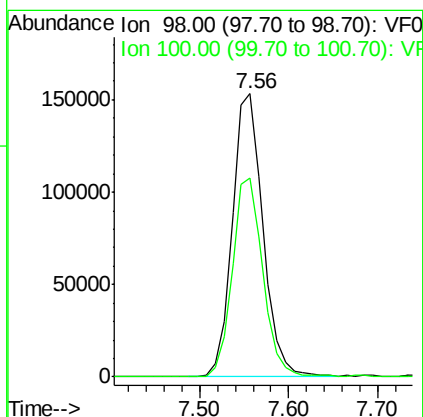
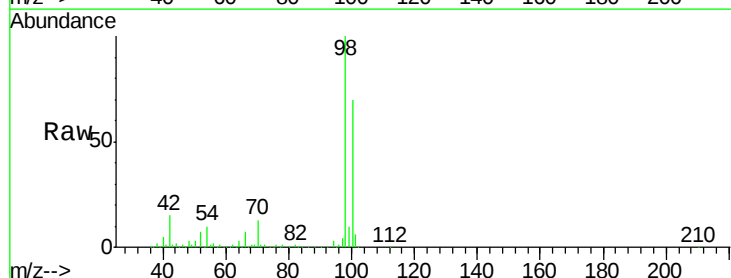
Manual Integrations
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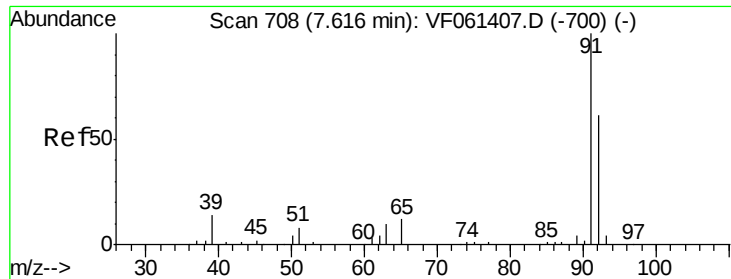
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#50
Toluene-d8
Concen: 45.299 ug/l
RT: 7.56 min Scan# 702
Delta R.T. 0.01 min
Lab File: VF061462.D
Acq: 18 Jan 2019 16:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.3	55.6	83.4





#52

Toluene

Concen: 1.008 ug/l

RT: 7.63 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061462.D

Acq: 18 Jan 2019 16:32

Instrument :

MSVOA_F

ClientSampleId :

SU-01-011719-BRE

Tot Ion: 92 Resp: 6455

Ion Ratio Lower Upper

92 100

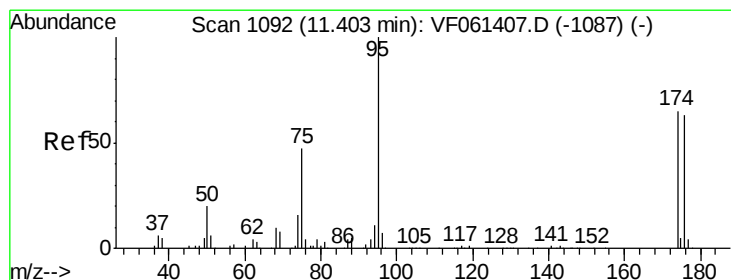
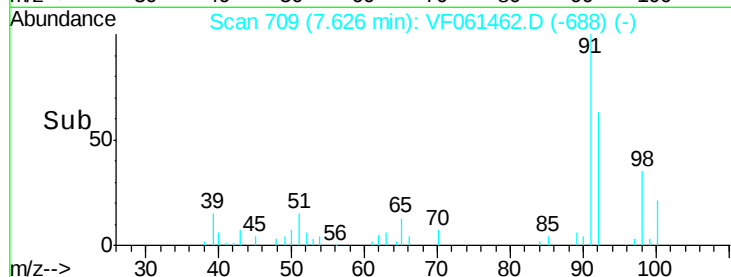
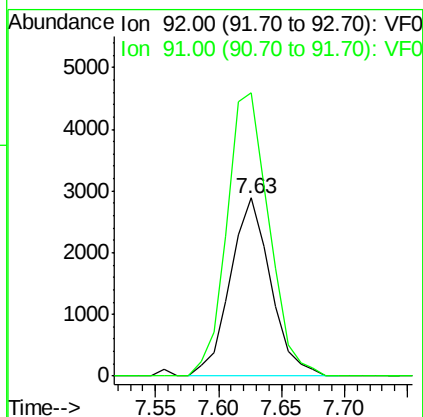
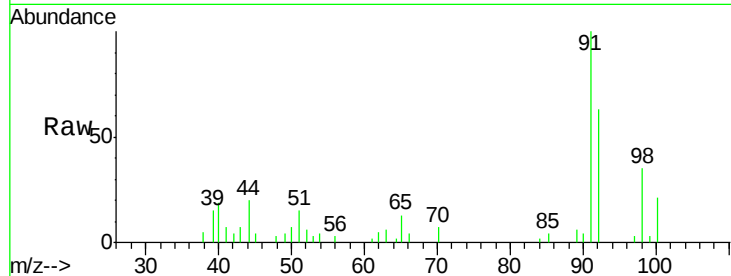
91 158.9 131.2 196.8

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 42.106 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061462.D

Acq: 18 Jan 2019 16:32

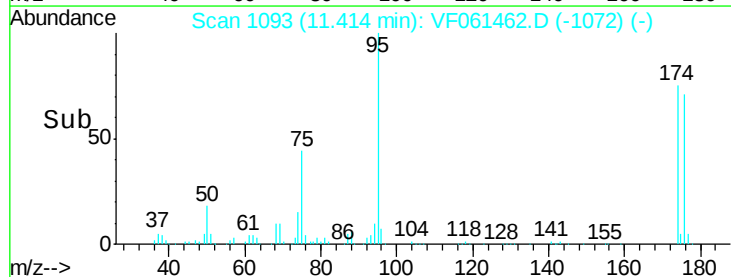
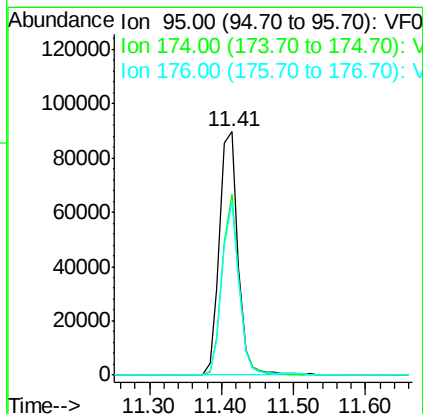
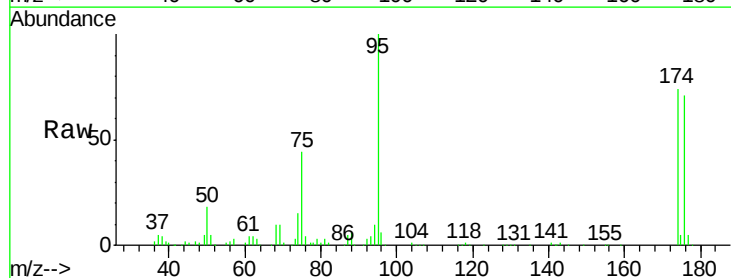
Tgt Ion: 95 Resp: 160273

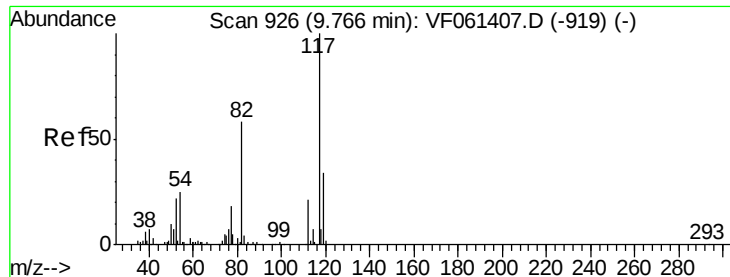
Ion Ratio Lower Upper

95 100

174 74.5 0.0 130.4

176 70.9 0.0 126.2





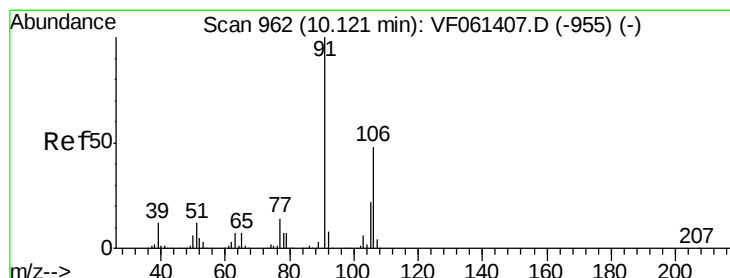
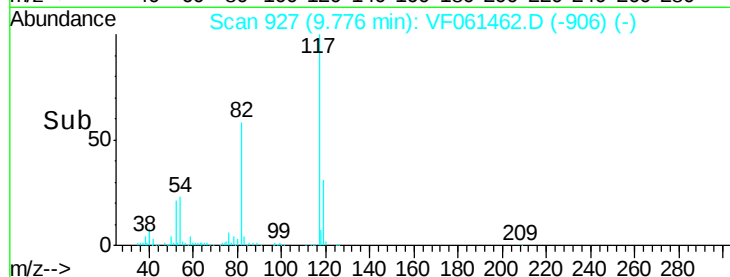
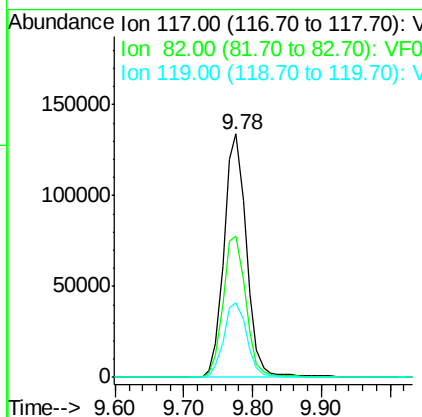
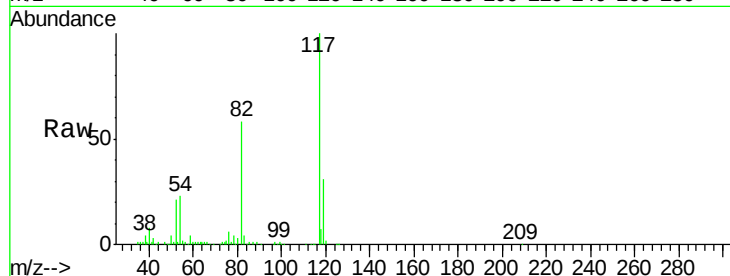
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061462.D
Acq: 18 Jan 2019 16:32

Instrument :
MSVOA_F
ClientSampleId :
SU-01-011719-BRE

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.2	46.4	69.6
119	30.9	27.2	40.8

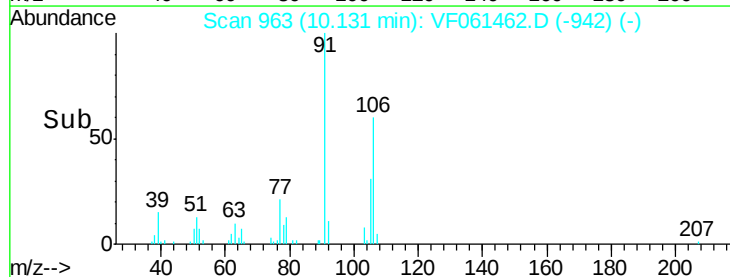
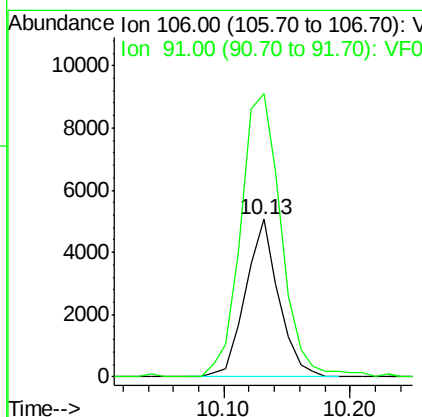
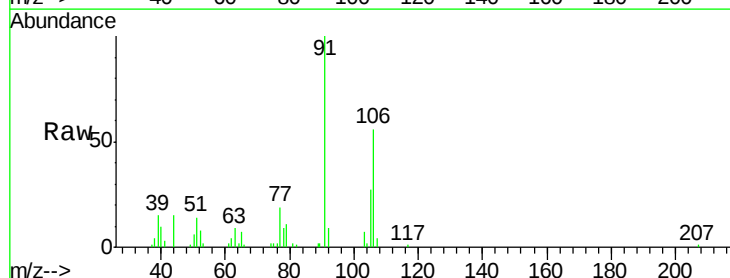
Manual Integrations
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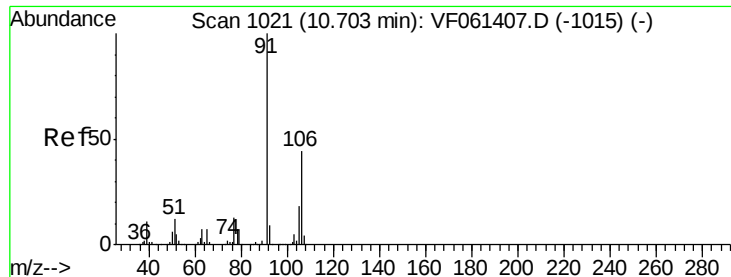
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#68
m/p-Xylenes
Concen: 2.274 ug/l
RT: 10.13 min Scan# 963
Delta R.T. 0.01 min
Lab File: VF061462.D
Acq: 18 Jan 2019 16:32

Tgt Ion	Ratio	Lower	Upper
106	100		
91	179.4	166.2	249.4





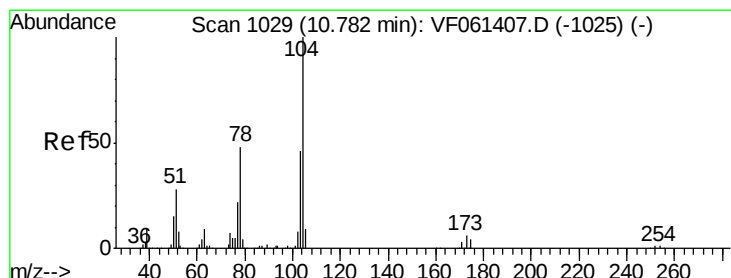
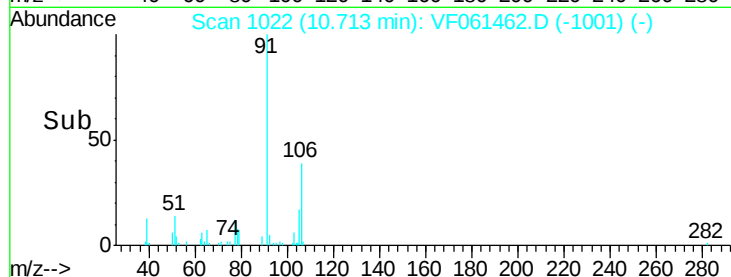
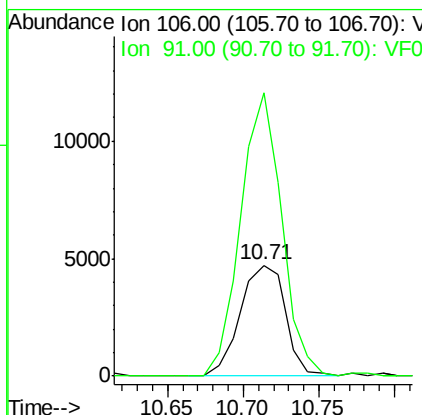
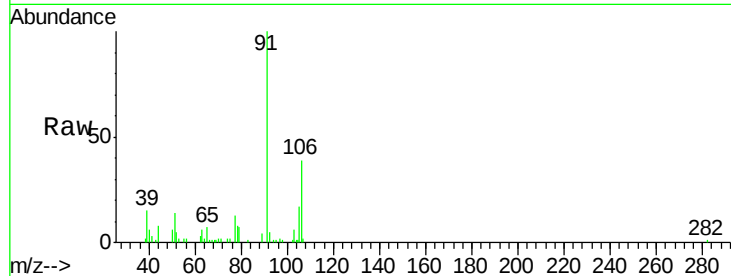
#69
o-Xylene
Concen: 2.222 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VF061462.D
Acq: 18 Jan 2019 16:32

Instrument :
MSVOA_F
ClientSampleId :
SU-01-011719-BRE

Tot Ion:106 Resp: 9806
Ion Ratio Lower Upper
106 100
91 255.1 113.3 339.8

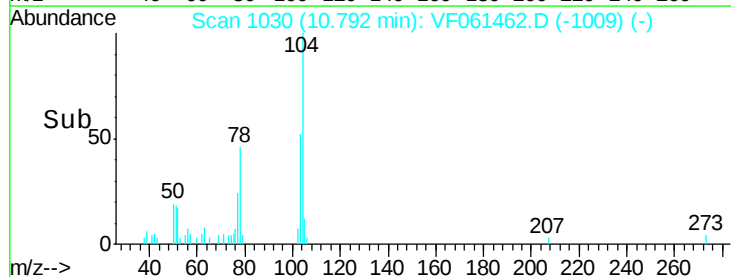
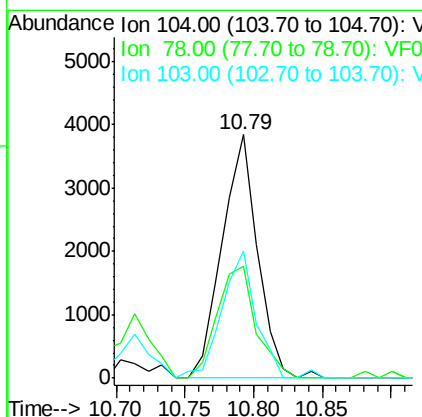
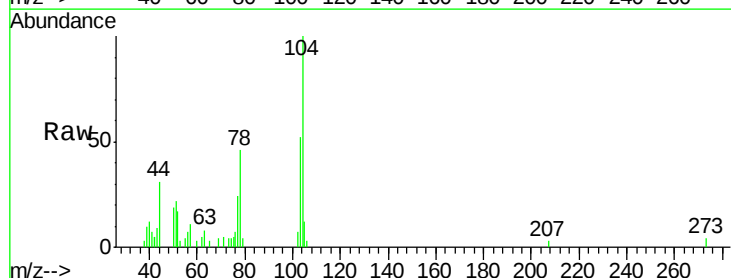
Manual Integrations
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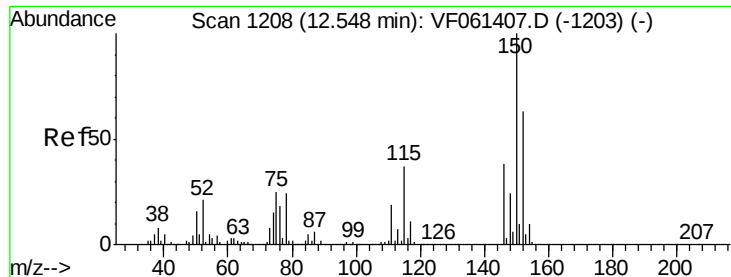
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1/21/2019 11:11:38 AM



#70
Styrene
Concen: 1.143 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VF061462.D
Acq: 18 Jan 2019 16:32

Tgt Ion:104 Resp: 6905
Ion Ratio Lower Upper
104 100
78 46.0 38.8 58.2
103 52.4 37.0 55.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061462.D

Acq: 18 Jan 2019 16:32

Instrument :

MSVOA_F

ClientSampleId :

SU-01-011719-BRE

Tot Ion:152 Resp: 151871

Ion Ratio Lower Upper

152 100

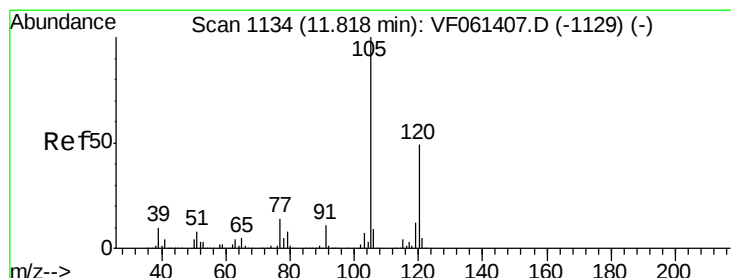
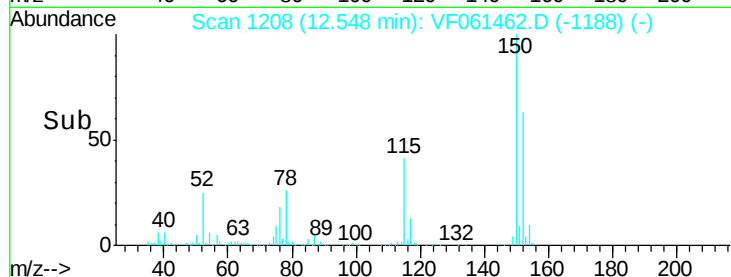
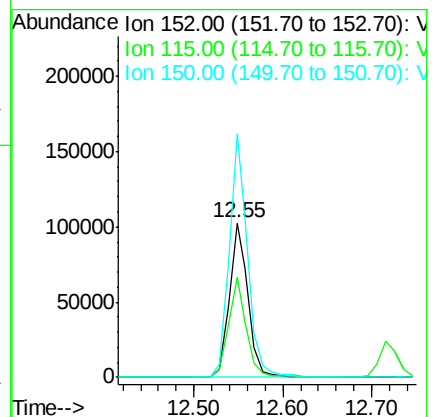
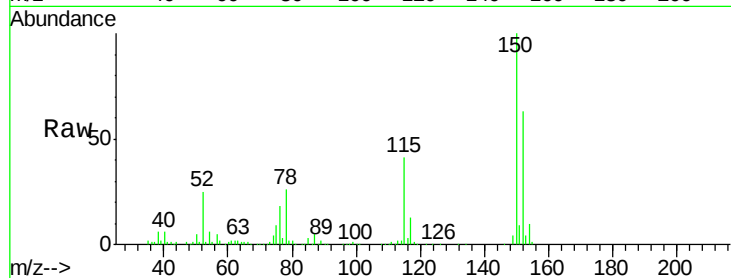
115 65.0 30.0 90.0

150 157.7 0.0 321.4

Manual Integrations
APPROVED

MMDadoda

1/21/2019 11:11:38 AM



#80

1,3,5-Trimethylbenzene

Concen: 1.594 ug/l

RT: 11.82 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VF061462.D

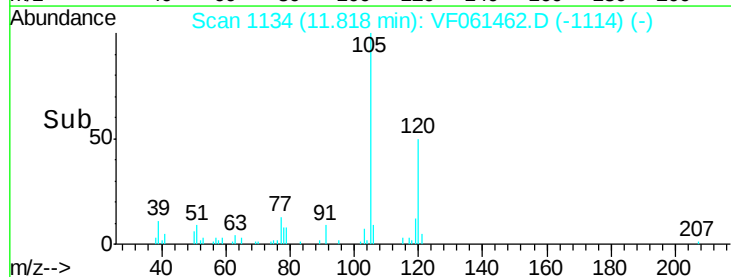
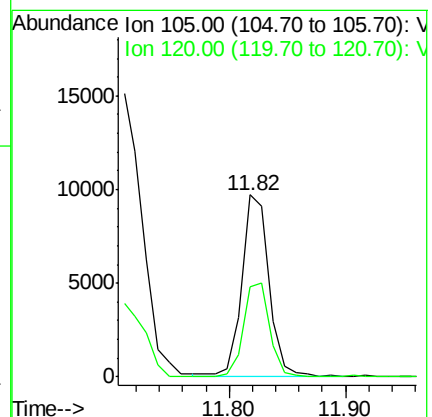
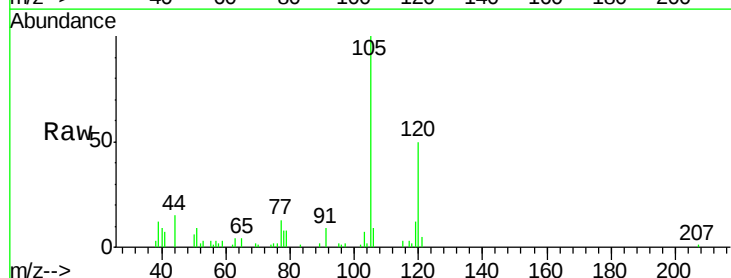
Acq: 18 Jan 2019 16:32

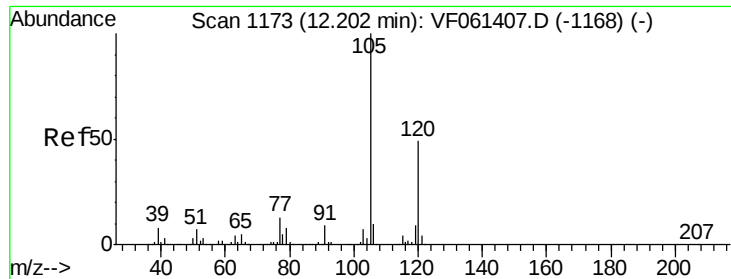
Tgt Ion:105 Resp: 15888

Ion Ratio Lower Upper

105 100

120 49.6 24.7 74.1





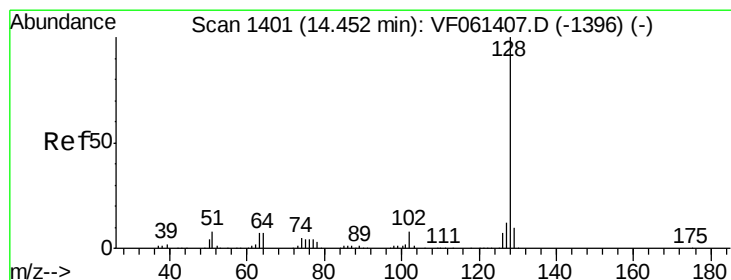
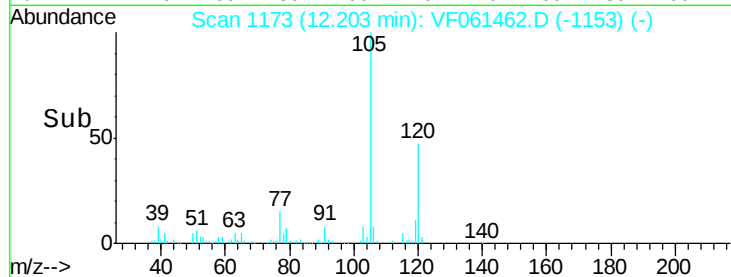
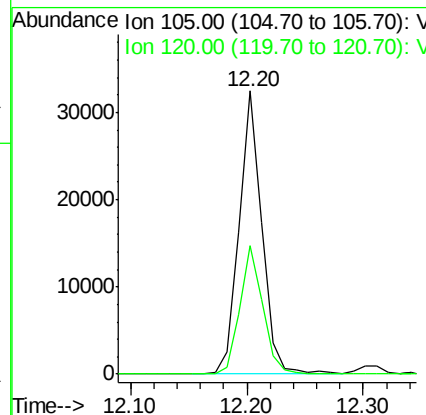
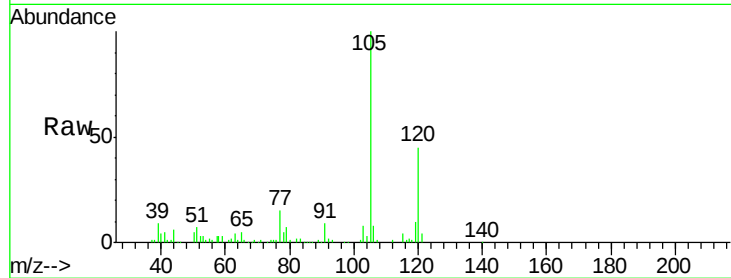
#84
 1,2,4-Trimethylbenzene
 Concen: 4.283 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VF061462.D
 Acq: 18 Jan 2019 16:32

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-01-011719-BRE

Tot Ion:105 Resp: 43976
 Ion Ratio Lower Upper
 105 100
 120 45.2 24.9 74.6

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 11:11:38 AM



#95
 Naphthalene
 Concen: 553.697 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.01 min
 Lab File: VF061462.D
 Acq: 18 Jan 2019 16:32

Tgt Ion:128 Resp: 3596166
 Ion Ratio Lower Upper
 128 100
 127 14.5 9.5 14.3#
 129 14.9 8.4 12.6#

