

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
 Data File : VL034653.D
 Acq On : 19 Feb 2020 20:18
 Operator : SY/AP
 Sample : L1553-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:24:09 PM

Quant Time: Feb 21 10:30:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	818498	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	1726972	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.11	117	1696782	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1509975	10.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	37291	0.207	ppbv	96
3) Chlorodifluoromethane	2.94	51	34520m	0.349	ppbv	
4) Chloromethane	3.10	50	27271	0.451	ppbv	99
9) Propene	2.98	41	575665m	14.949	ppbv	
10) Heptane	8.12	43	12425m	0.128	ppbv	
11) Trichlorofluoromethane	3.92	101	47832	0.292	ppbv	90
13) Ethanol	3.57	45	1612504	156.332	ppbv	99
15) Acetone	3.82	43	413092m	3.434	ppbv	
19) Isopropyl Alcohol	3.94	45	128580	1.832	ppbv #	91
20) Methylene Chloride	4.31	84	155693	3.399	ppbv	94
26) Hexane	5.67	57	175733	2.154	ppbv #	42
34) 2-Butanone	5.23	43	34199m	0.273	ppbv	
35) Carbon Tetrachloride	7.01	117	13245m	0.080	ppbv	
36) Benzene	6.89	78	65202	0.425	ppbv #	89
53) Toluene	9.82	91	662633	3.928	ppbv	97
58) Ethyl Benzene	12.73	91	85688m	0.377	ppbv	
59) m/p-Xylene	12.99	91	302571m	1.507	ppbv	
60) o-Xylene	13.72	91	52821m	0.262	ppbv	

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

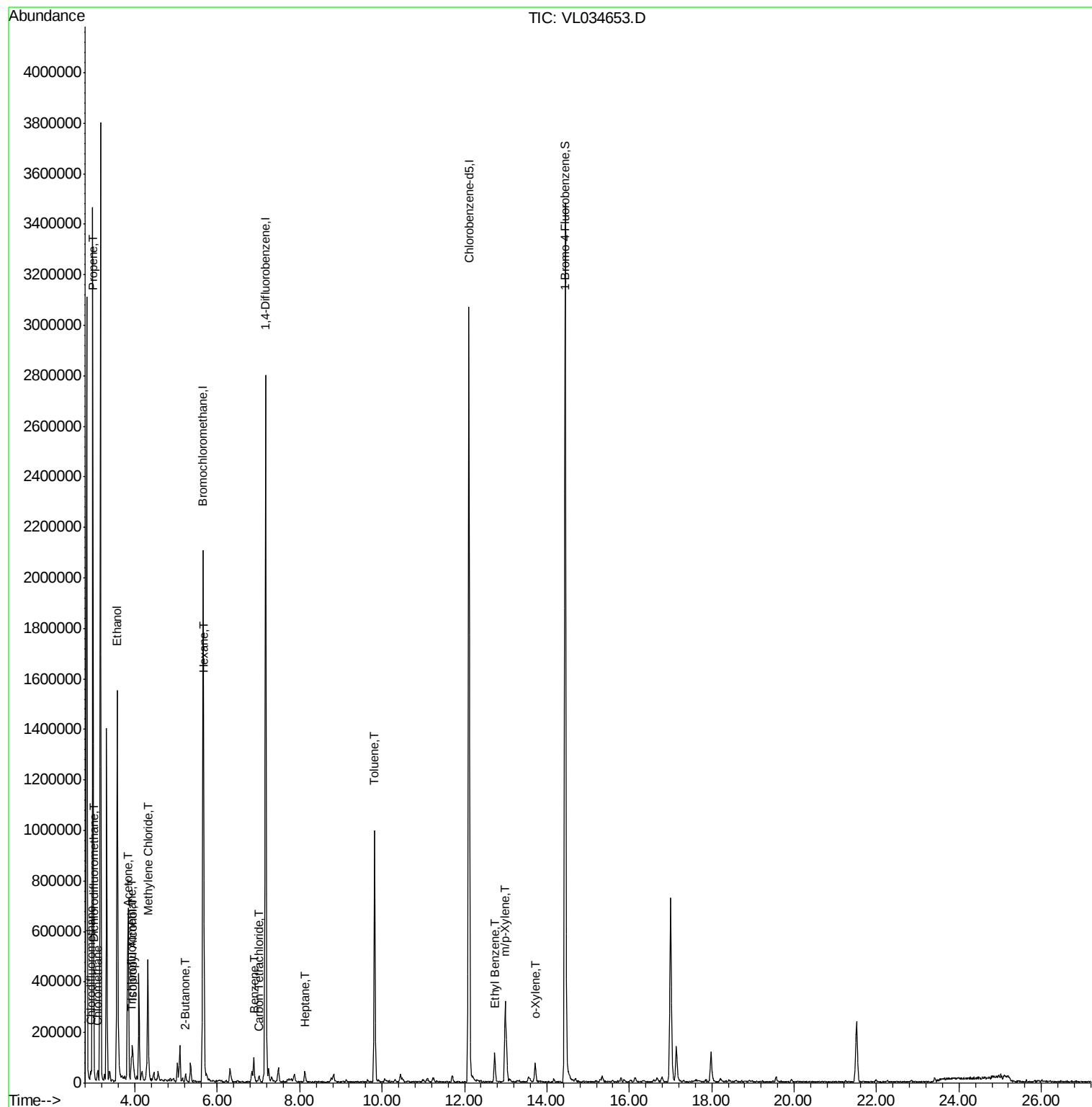
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021920\
Data File : VL034653.D
Acq On : 19 Feb 2020 20:18
Operator : SY/AP
Sample : L1553-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

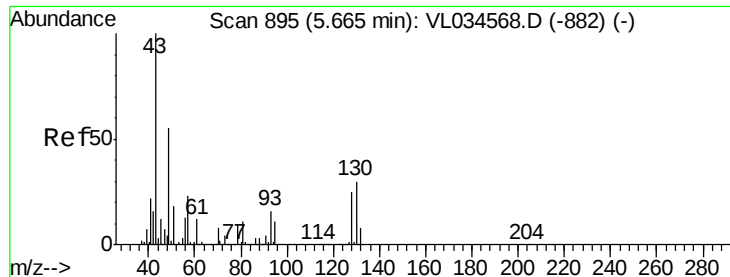
Instrument :
MSVOA_L
ClientSampleId :
IA-1

Manual Integrations
APPROVED

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Quant Time: Feb 21 10:30:51 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

Instrument :

MSVOA_L

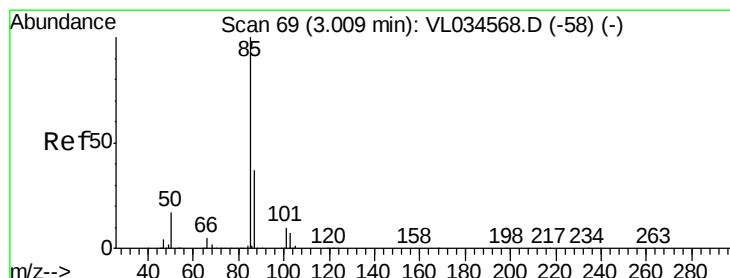
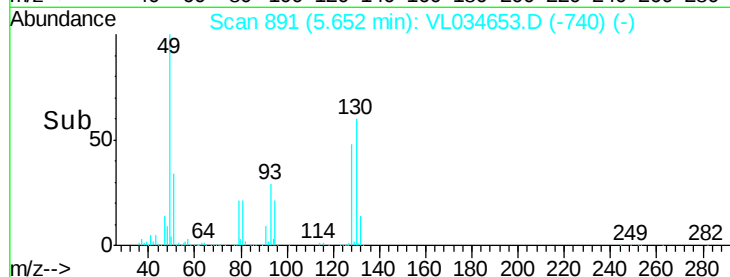
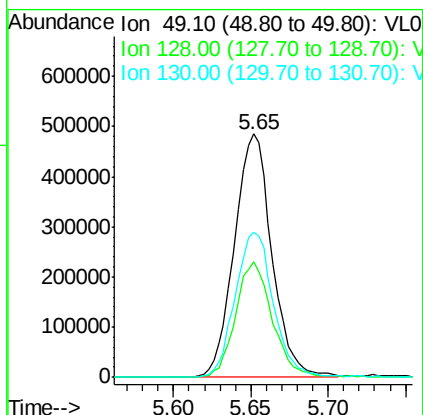
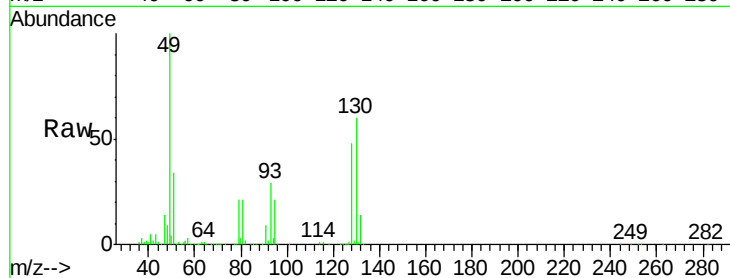
ClientSampleId :

IA-1

Tot Ion	Ratio	Lower	Upper
49	100		
128	46.7	22.7	68.1
130	61.3	28.6	85.8

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.207 ppbv

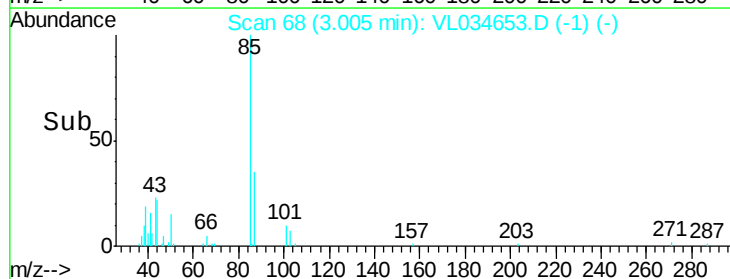
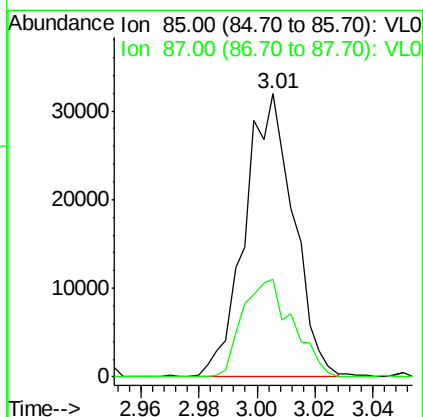
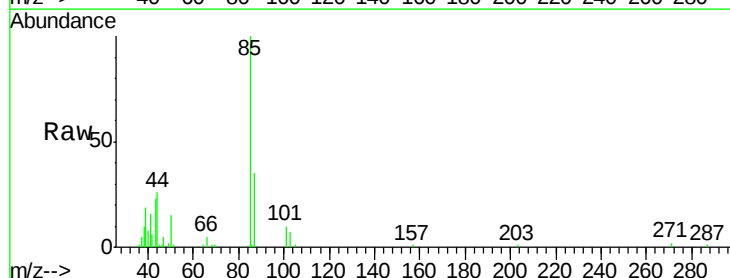
RT: 3.01 min Scan# 68

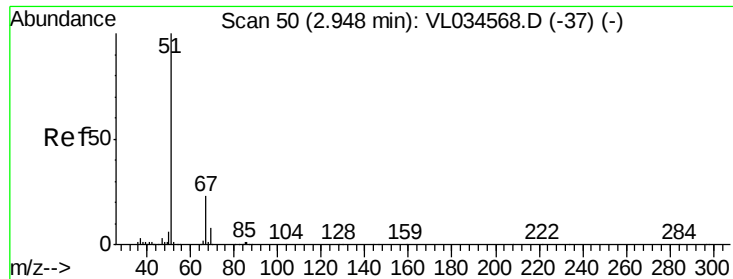
Delta R.T. -0.00 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.7	29.5	44.3





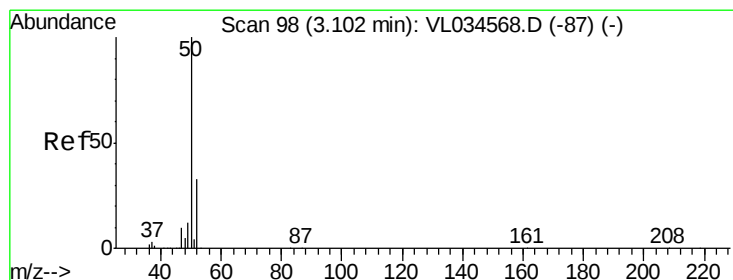
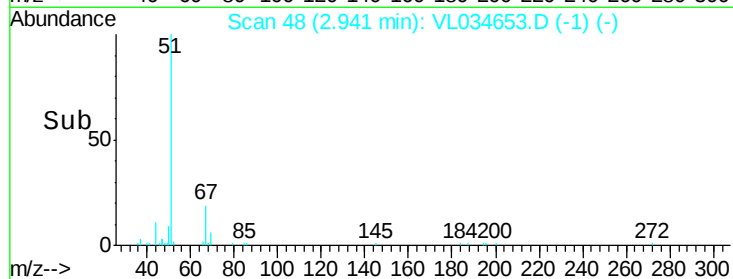
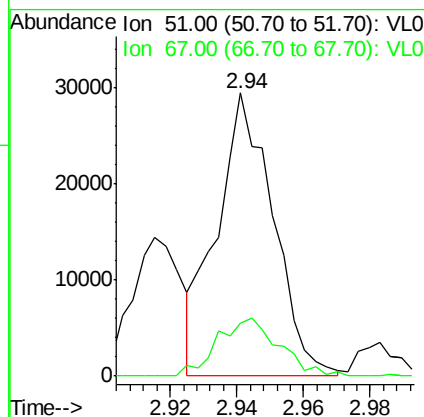
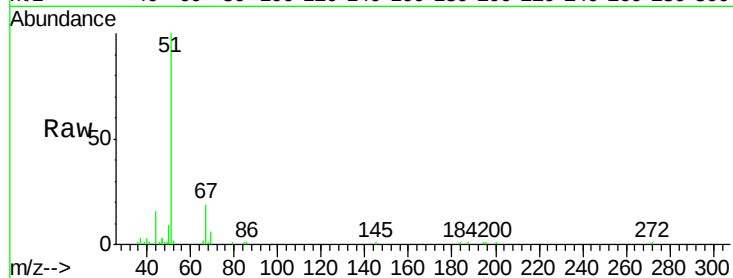
#3
Chlorodifluoromethane
Concen: 0.349 ppbv
RT: 2.94 min Scan# 48
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tot Ion	Ratio	Lower	Upper
51	100		
67	22.3	17.8	26.8

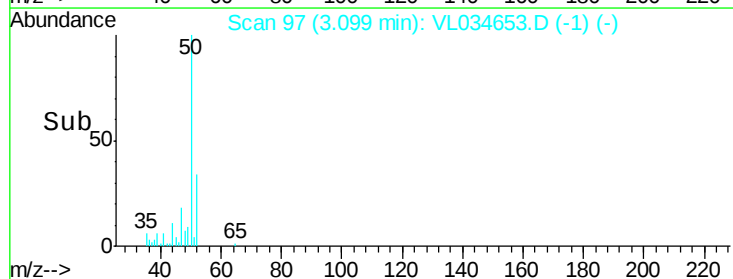
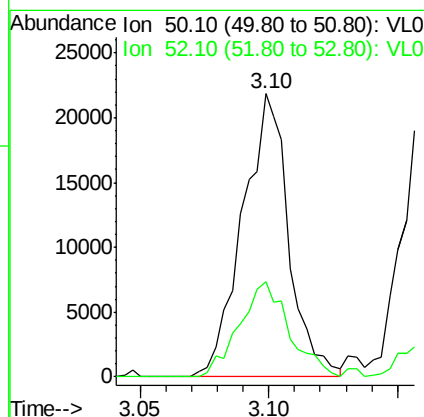
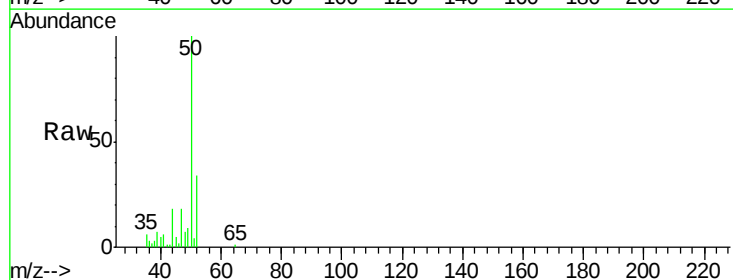
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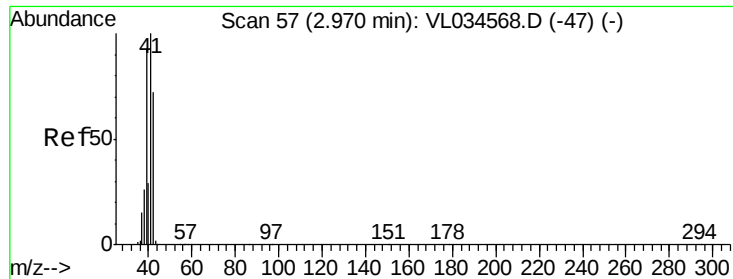
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#4
Chloromethane
Concen: 0.451 ppbv
RT: 3.10 min Scan# 97
Delta R.T. -0.00 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.6	39.8





#9

Propene

Concen: 14.949 ppbv m

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

Instrument :

MSVOA_L

ClientSampled :

IA-1

Tot Ion: 41 Resp: 575665

Ion Ratio Lower Upper

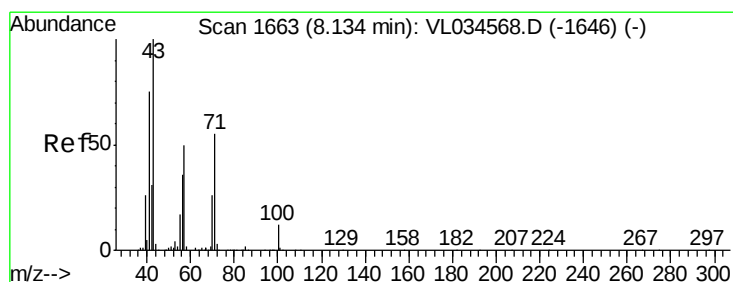
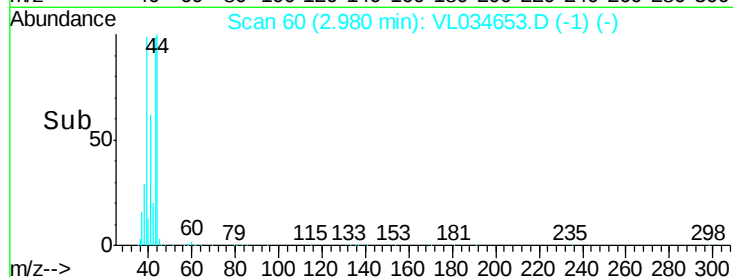
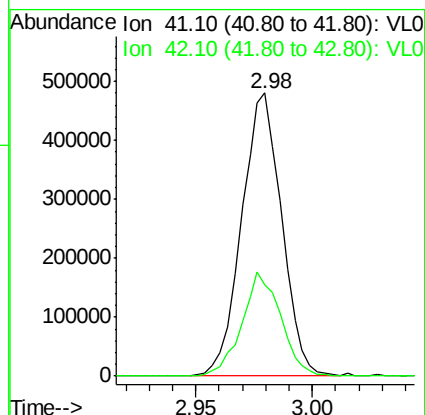
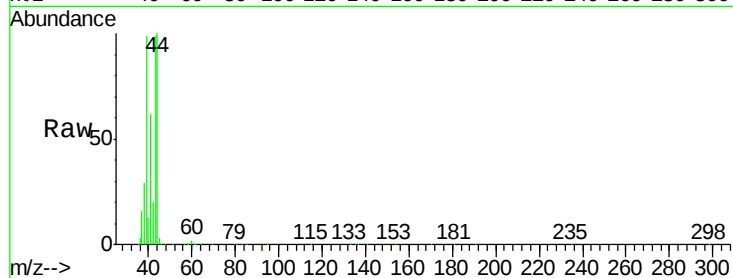
41 100

42 110.0 57.0 85.4#

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#10

Heptane

Concen: 0.128 ppbv m

RT: 8.12 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VL034653.D

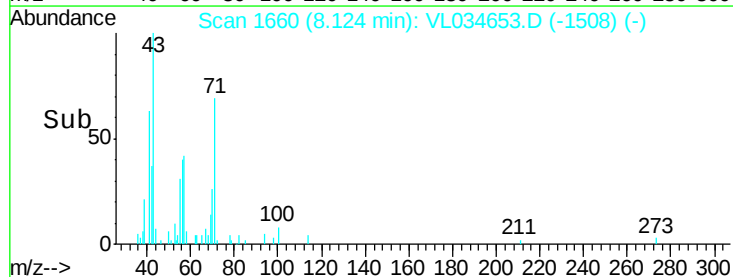
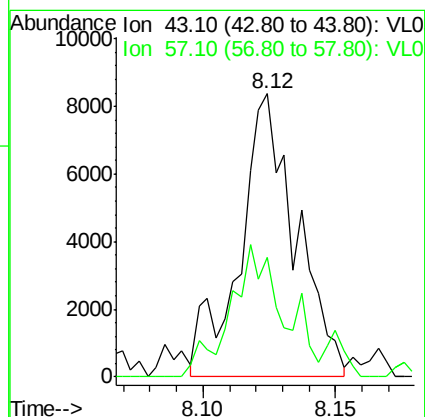
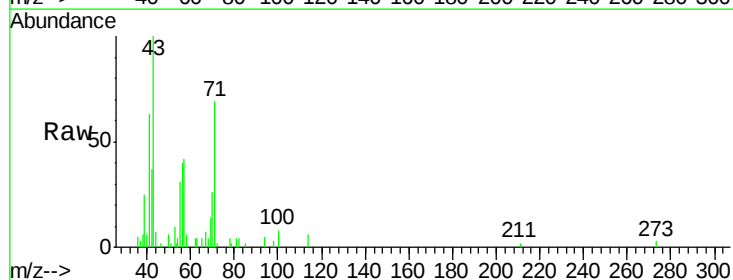
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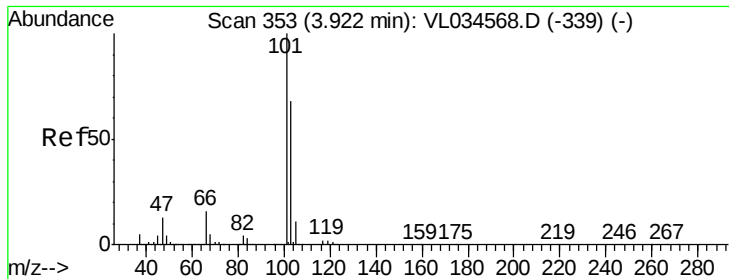
Tgt Ion: 43 Resp: 12425

Ion Ratio Lower Upper

43 100

57 49.3 41.2 61.8





#11

Trichlorofluoromethane

Concen: 0.292 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.01 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion:101 Resp: 47832

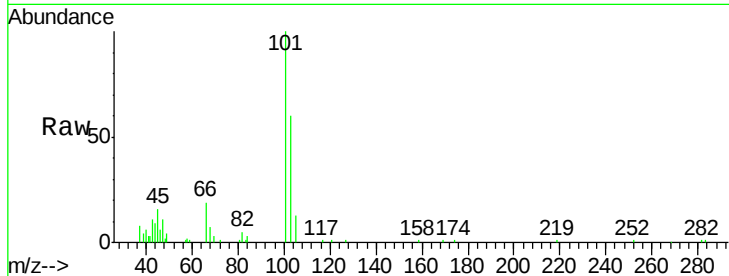
Ion Ratio Lower Upper

101 100

103 60.2 54.4 81.6

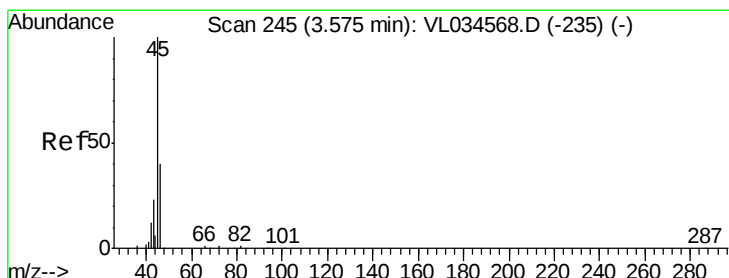
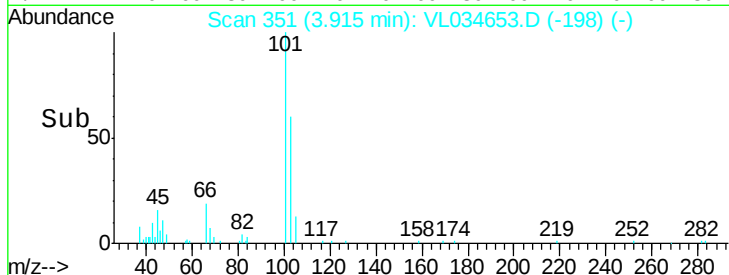
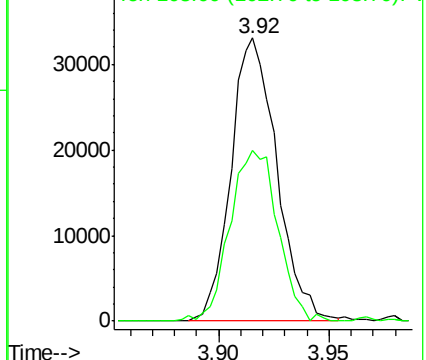
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 156.332 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.01 min

Lab File: VL034653.D

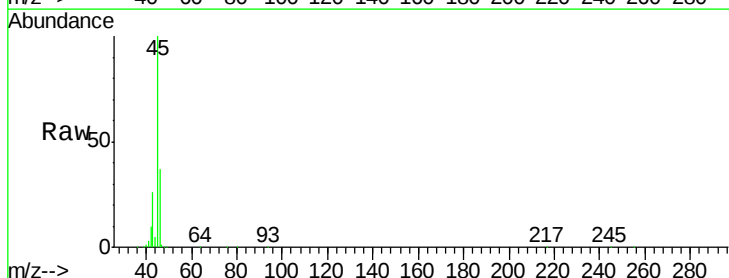
Acq: 19 Feb 2020 20:18

Tgt Ion: 45 Resp: 1612504

Ion Ratio Lower Upper

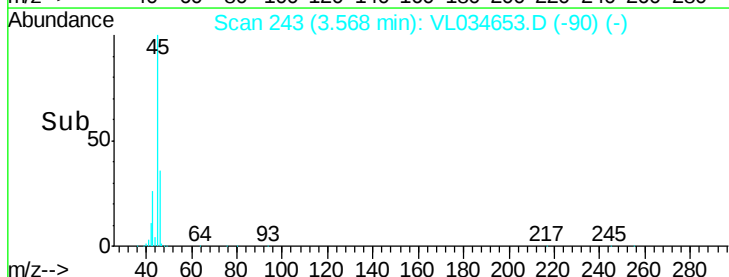
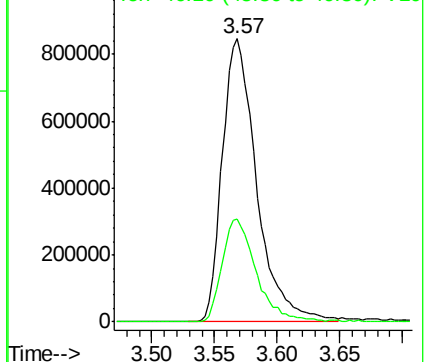
45 100

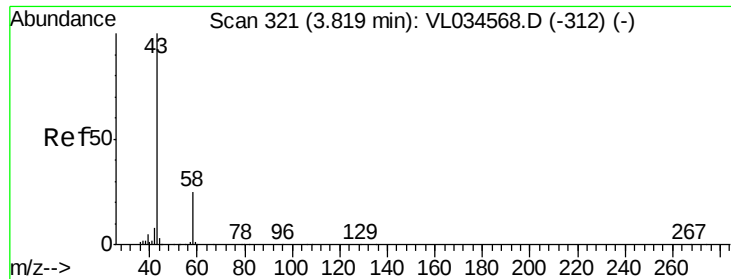
46 36.4 14.8 59.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.434 ppbv m

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 43 Resp: 413092

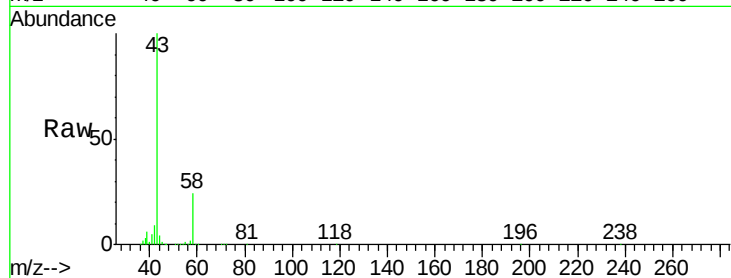
Ion Ratio Lower Upper

43 100

58 28.9 20.3 30.5

Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.82

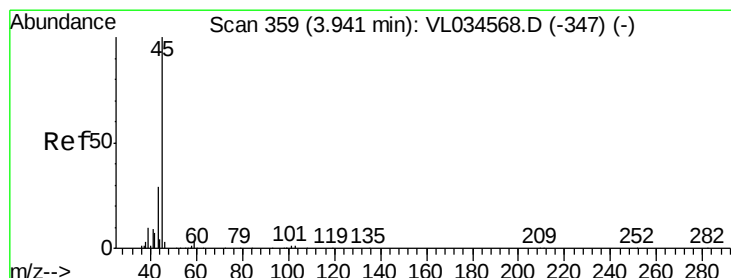
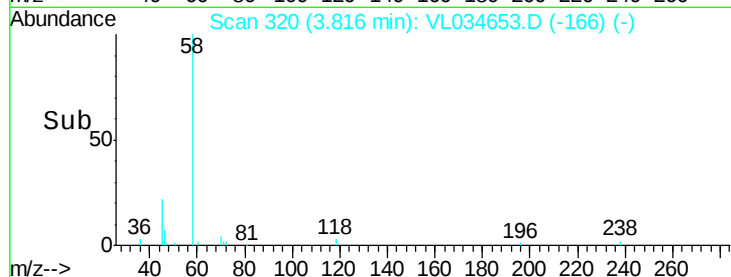
300000

200000

100000

0

Time-->



#19

Isopropyl Alcohol

Concen: 1.832 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.00 min

Lab File: VL034653.D

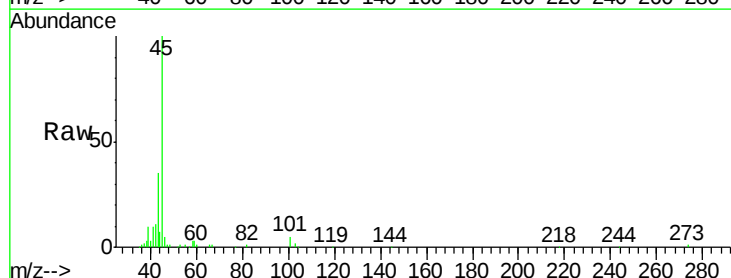
Acq: 19 Feb 2020 20:18

Tgt Ion: 45 Resp: 128580

Ion Ratio Lower Upper

45 100

58 5.4 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

80000

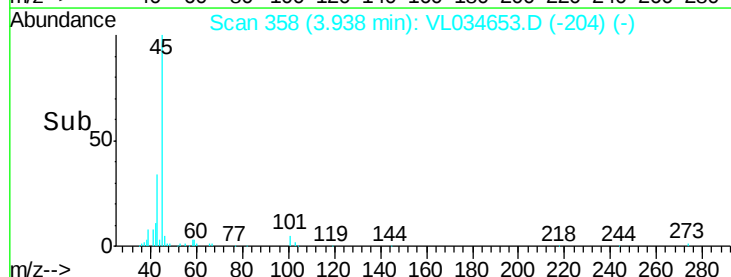
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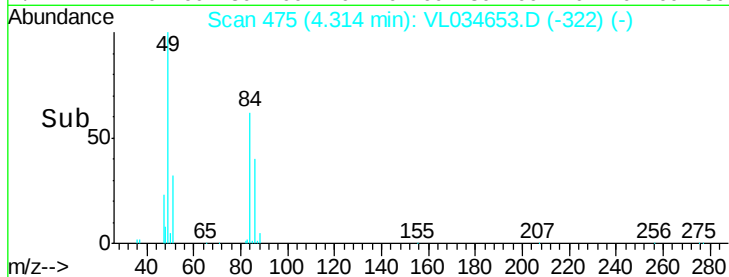
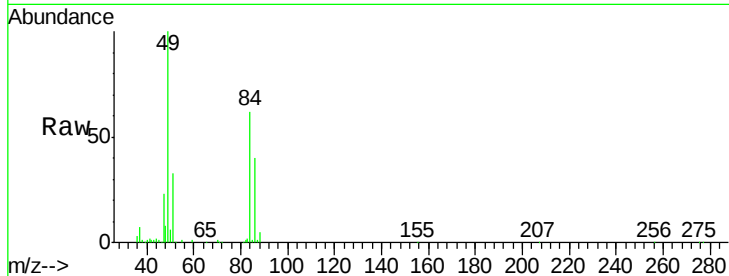
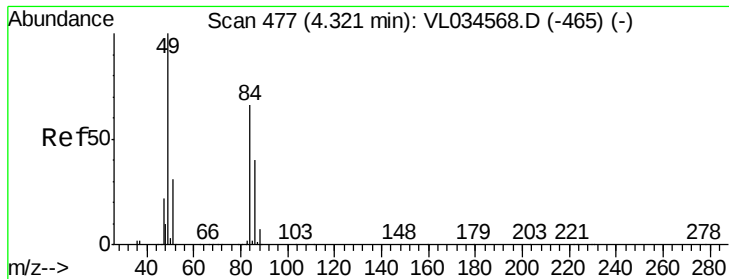
40000

20000

0

Time-->





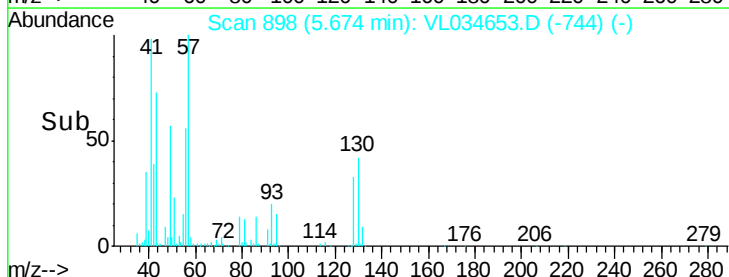
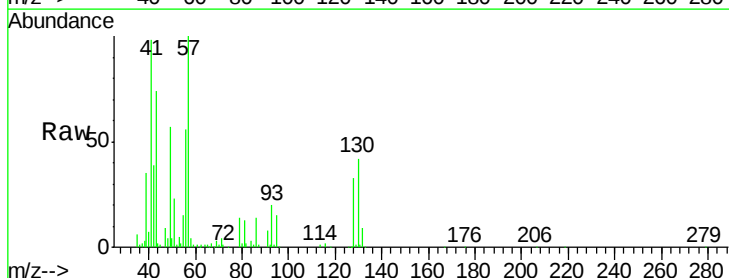
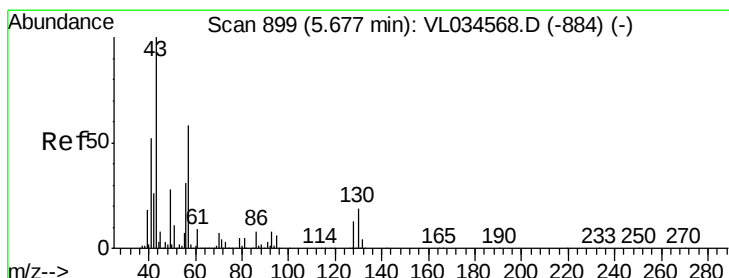
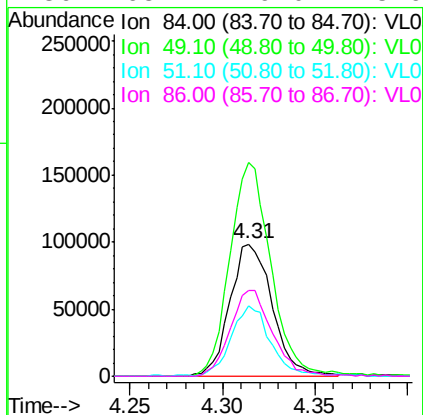
#20
Methvlene Chloride
Concen: 3.399 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	161.0	122.4	183.6		
51	52.5	38.6	57.8		
86	65.1	49.0	73.6		

Instrument :
MSVOA_L
ClientSampled :
IA-1

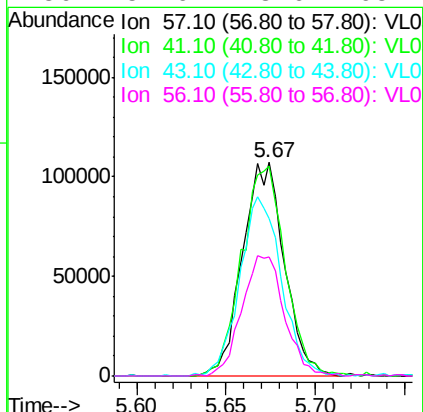
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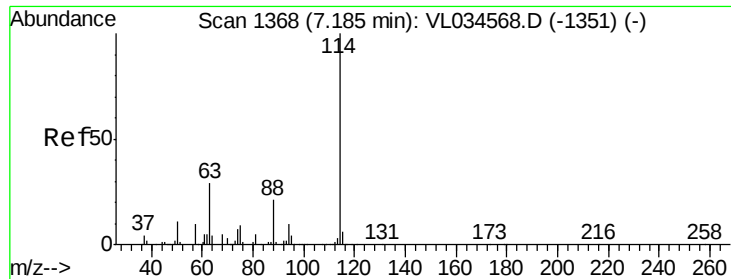
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#26
Hexane
Concen: 2.154 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	102.5	76.2	114.2		
43	83.6	189.9	284.9#		
56	57.6	43.6	65.4		





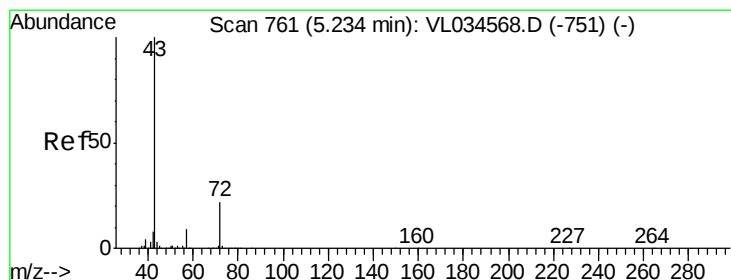
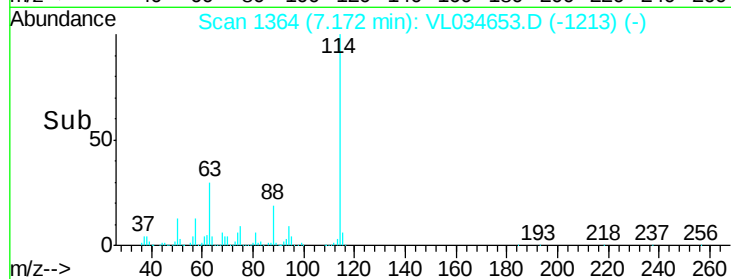
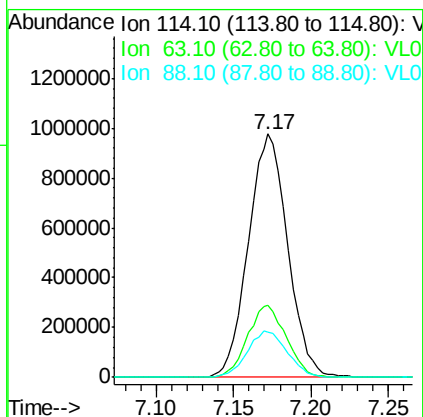
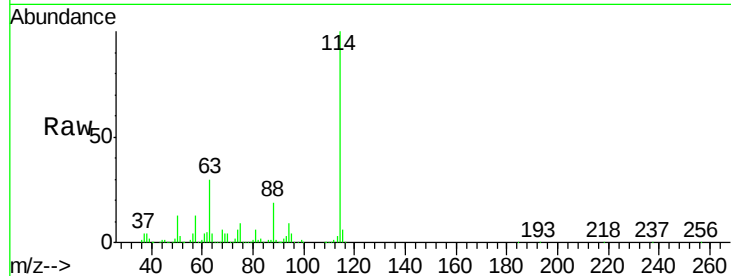
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL034653.D
 Acq: 19 Feb 2020 20:18

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.4	24.1	36.1
88	19.3	15.9	23.9

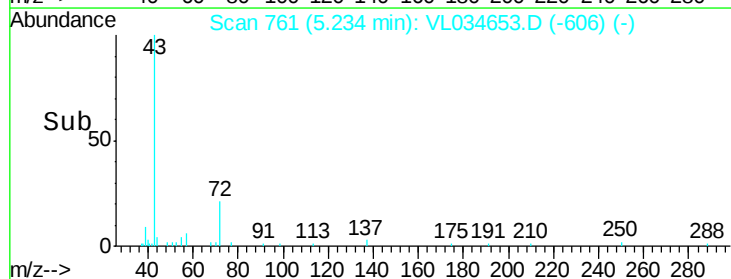
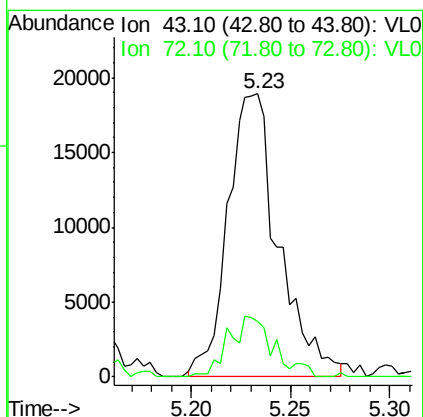
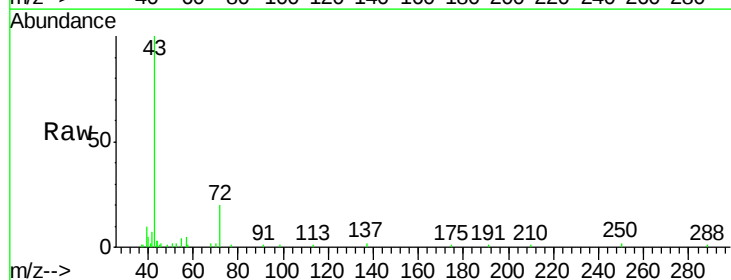
Manual Integrations
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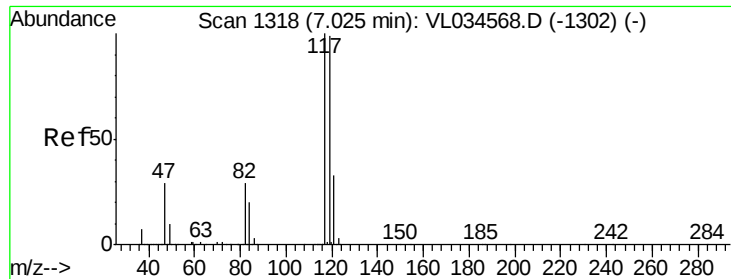
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#34
 2-Butanone
 Concen: 0.273 ppbv m
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034653.D
 Acq: 19 Feb 2020 20:18

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.2	25.8#





#35

Carbon Tetrachloride

Concen: 0.080 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

Instrument :

MSVOA_L

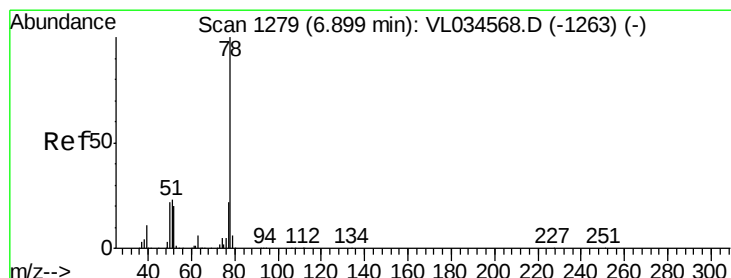
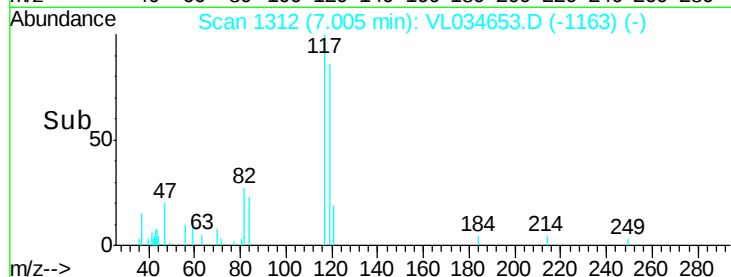
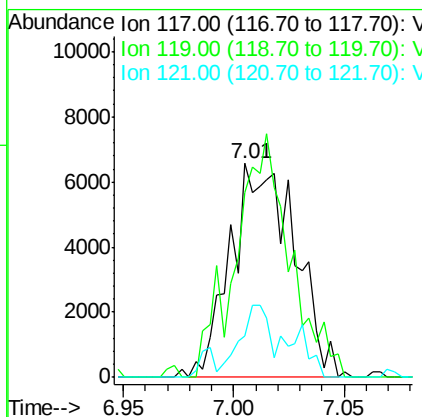
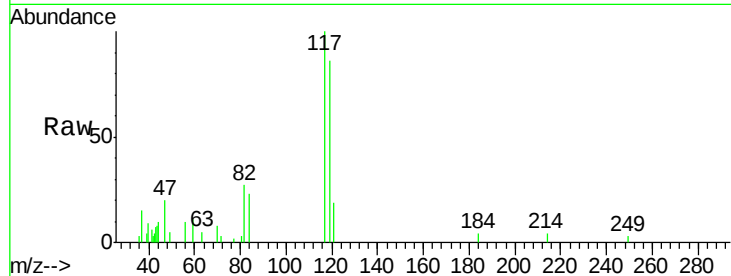
ClientSampled :

IA-1

Tot Ion:	117	Resp:	13245
Ion Ratio	Lower	Upper	
117	100		
119	86.4	79.5	119.3
121	19.1	26.2	39.2#

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#36

Benzene

Concen: 0.425 ppbv

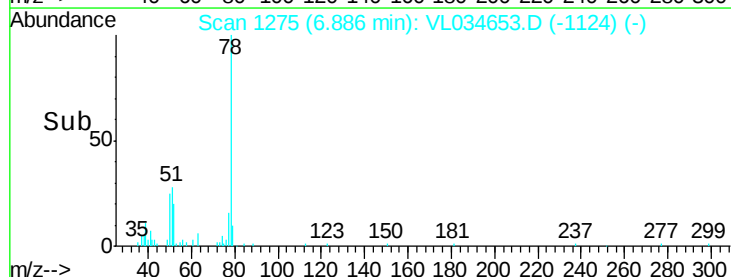
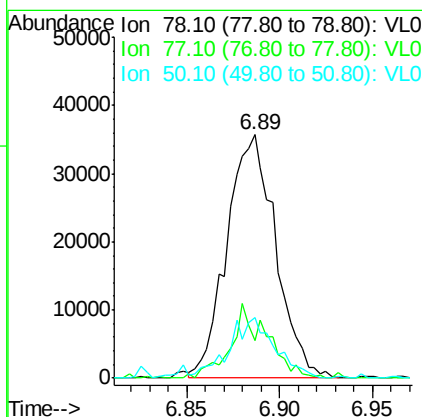
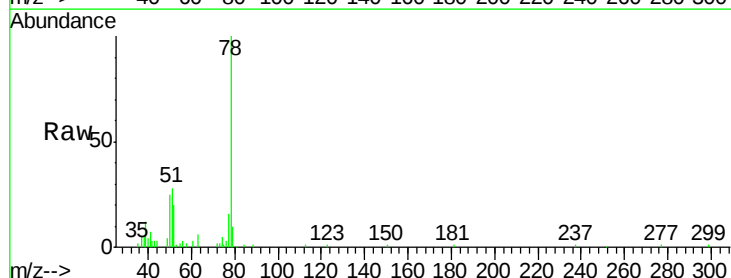
RT: 6.89 min Scan# 1275

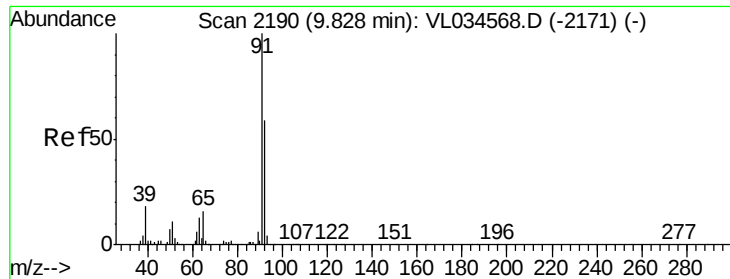
Delta R.T. -0.01 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

Tgt Ion:	78	Resp:	65202
Ion Ratio	Lower	Upper	
78	100		
77	14.0	17.3	25.9#
50	24.2	17.4	26.2





#53

Toluene

Concen: 3.928 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 91 Resp: 662633

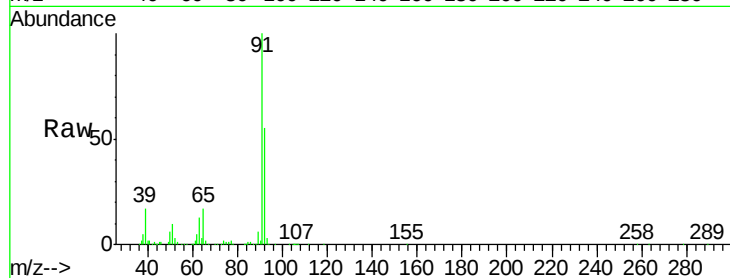
Ion Ratio Lower Upper

91 100

92 58.2 48.2 72.2

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.82

400000

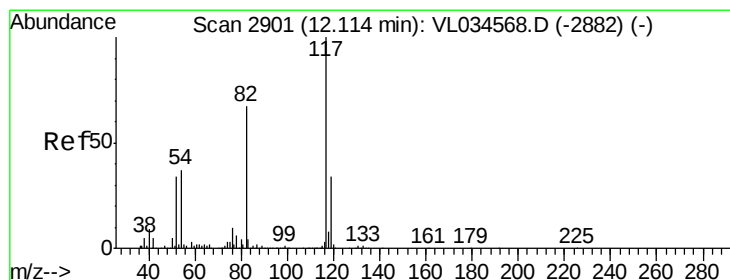
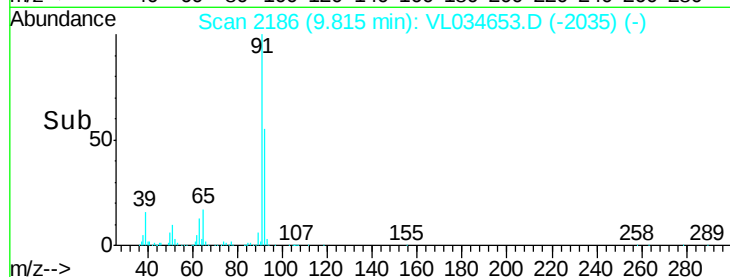
300000

200000

100000

0

Time--> 9.75 9.80 9.85



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

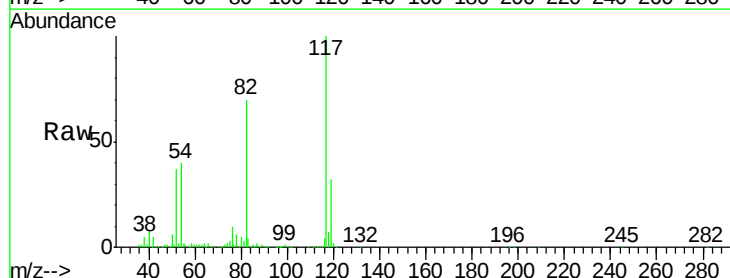
Tgt Ion: 117 Resp: 1696782

Ion Ratio Lower Upper

117 100

82 70.9 54.2 81.4

119 33.2 26.1 39.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

12.11

1000000

800000

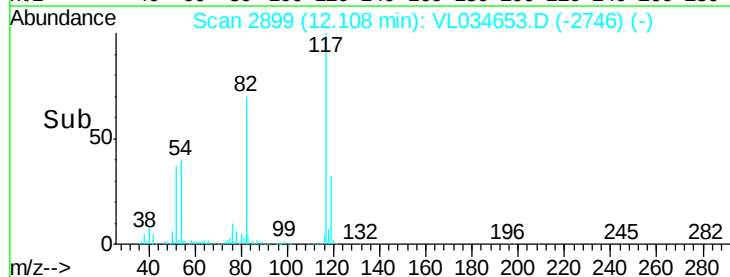
600000

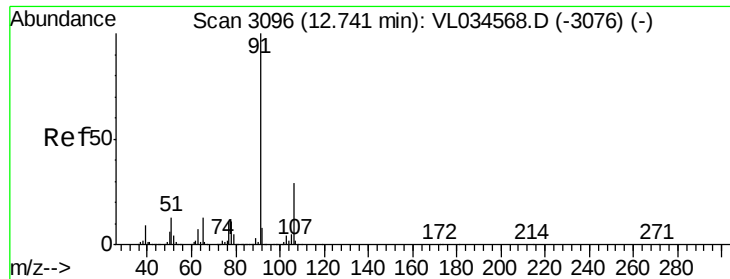
400000

200000

0

Time--> 12.00 12.10 12.20





#58

Ethyl Benzene

Concen: 0.377 ppbv m

RT: 12.73 min Scan# 3092

Delta R.T. -0.01 min

Lab File: VL034653.D

Acq: 19 Feb 2020 20:18

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 91 Resp: 85688

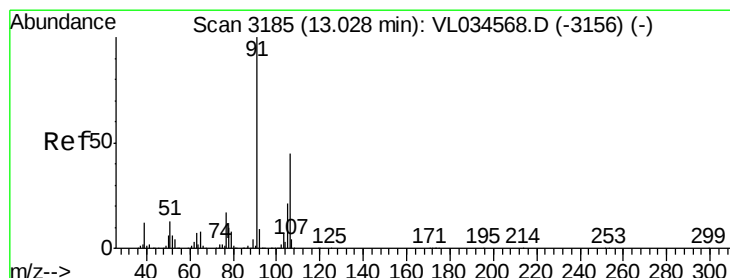
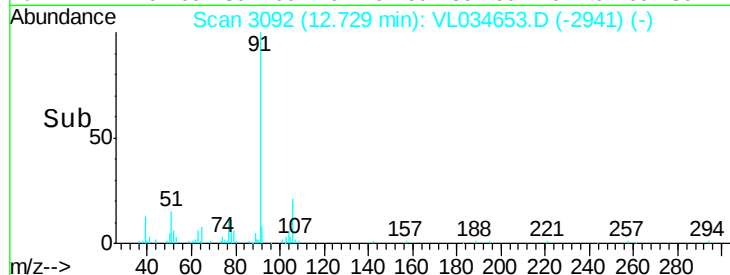
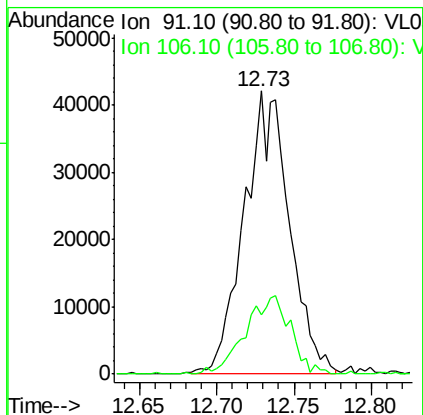
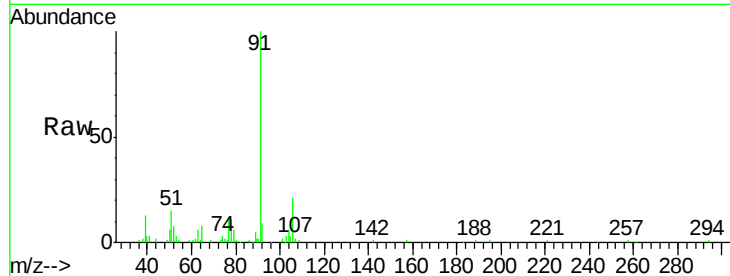
Ion Ratio Lower Upper

91 100

106 21.1 23.3 34.9#

Manual Integrations
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#59

m/p-Xylene

Concen: 1.507 ppbv m

RT: 12.99 min Scan# 3173

Delta R.T. -0.04 min

Lab File: VL034653.D

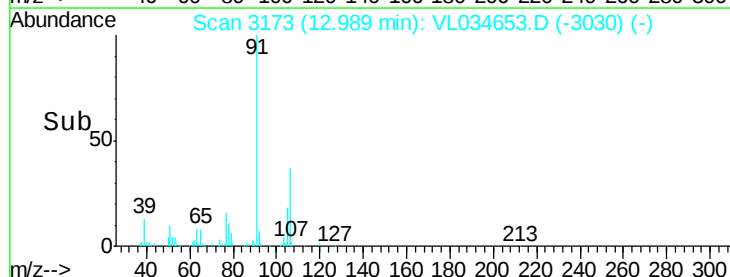
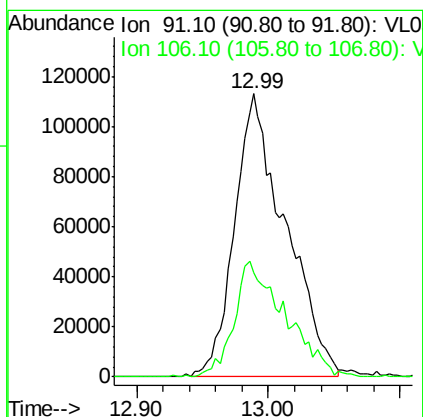
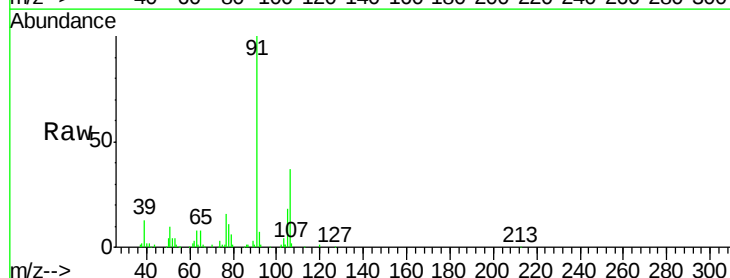
Acq: 19 Feb 2020 20:18

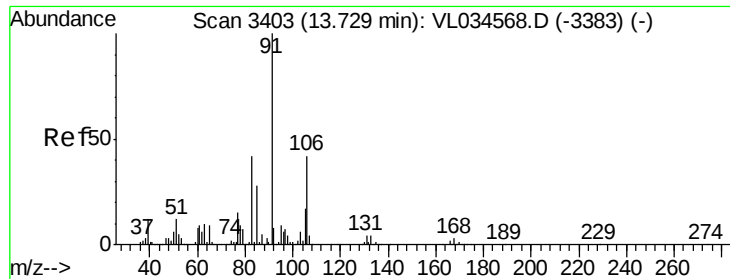
Tgt Ion: 91 Resp: 302571

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#





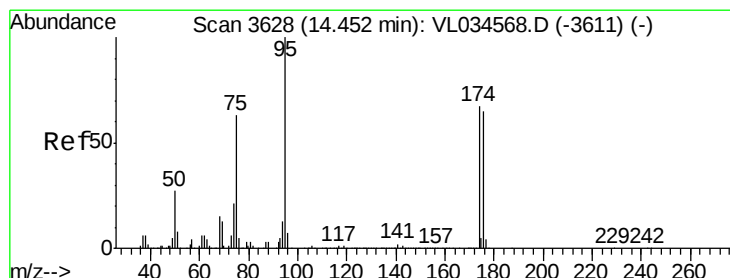
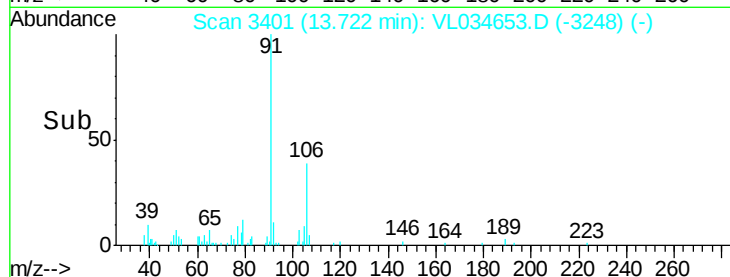
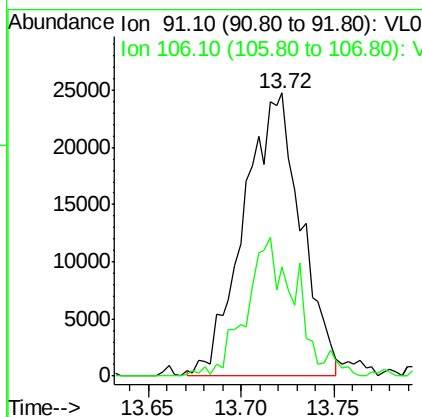
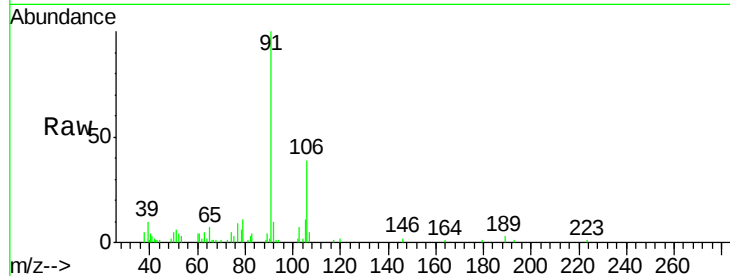
#60
o-Xylene
Concen: 0.262 ppbv m
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion: 91 Resp: 52821
Ion Ratio Lower Upper
91 100
106 44.0 21.6 65.0

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.530 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.01 min
Lab File: VL034653.D
Acq: 19 Feb 2020 20:18

Tgt Ion: 95 Resp: 1509975
Ion Ratio Lower Upper
95 100
174 64.4 52.3 78.5
175 4.7 3.8 5.6

