

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022820\
 Data File : VL034739.D
 Acq On : 28 Feb 2020 16:27
 Operator : SY/AP
 Sample : L1662-09
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-9-TROPHY-CASE

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 1:01:20 PM

Quant Time: Mar 02 11:51:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1027347	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2081612	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2042745	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1777003	10.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	45778	0.282	ppbv	99
3) Chlorodifluoromethane	2.95	51	33802m	0.305	ppbv	
4) Chloromethane	3.11	50	33709	0.543	ppbv	96
9) Propene	2.99	41	60659m	1.309	ppbv	
11) Trichlorofluoromethane	3.93	101	36670	0.258	ppbv #	78
13) Ethanol	3.59	45	2458223	167.904	ppbv	98
15) Acetone	3.83	43	650638m	5.558	ppbv	
19) Isopropyl Alcohol	3.96	45	4497823	64.503	ppbv #	98
20) Methylene Chloride	4.33	84	124058	2.849	ppbv	99
26) Hexane	5.69	57	107606	1.127	ppbv #	46
34) 2-Butanone	5.25	43	34899	0.266	ppbv	96
35) Carbon Tetrachloride	7.04	117	11013m	0.079	ppbv	
36) Benzene	6.89	78	62194m	0.346	ppbv	
53) Toluene	9.83	91	677099	3.541	ppbv	100
58) Ethyl Benzene	12.75	91	79014	0.320	ppbv #	87
59) m/p-Xylene	13.01	91	363147	1.685	ppbv	99
60) o-Xylene	13.73	91	79096m	0.370	ppbv	

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

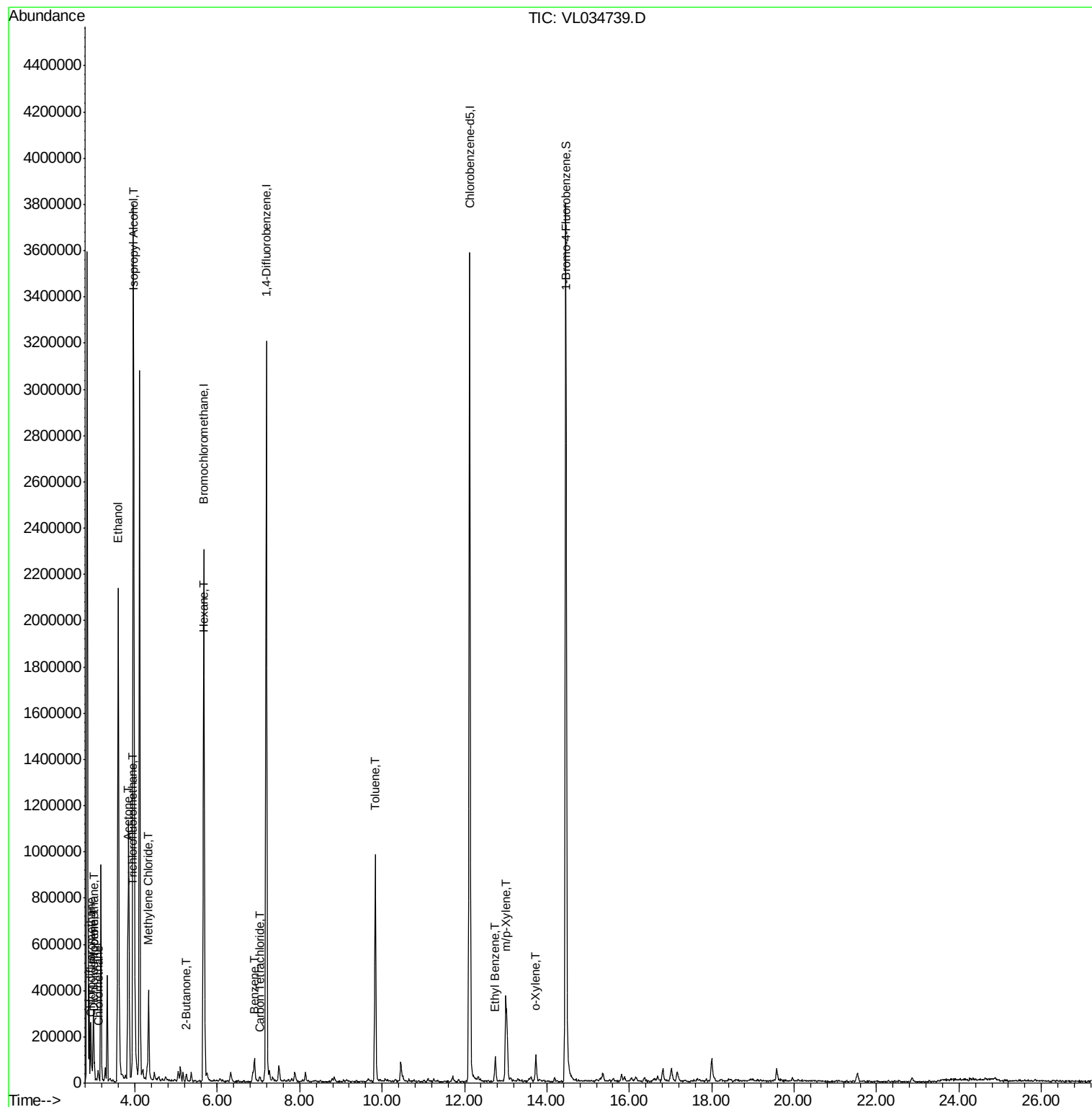
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022820\
Data File : VL034739.D
Acq On : 28 Feb 2020 16:27
Operator : SY/AP
Sample : L1662-09
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

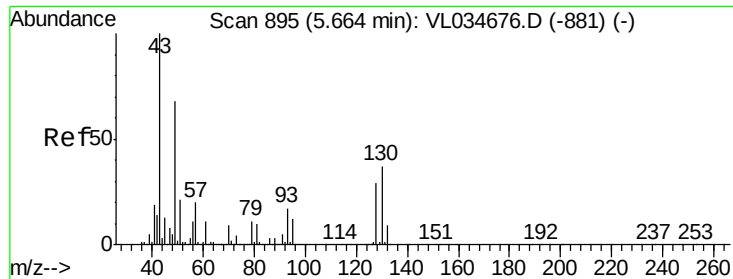
Instrument :
MSVOA_L
ClientSampleId :
IAS-9-TROPHY-CASE

Manual Integrations
APPROVED

MMDadoda
3/2/2020 1:01:20 PM

Quant Time: Mar 02 11:51:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb
QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-TROPHY-CASE

Tot Ion: 49 Resp: 1027347

Ion Ratio Lower Upper

49 100

128 43.7 21.6 65.0

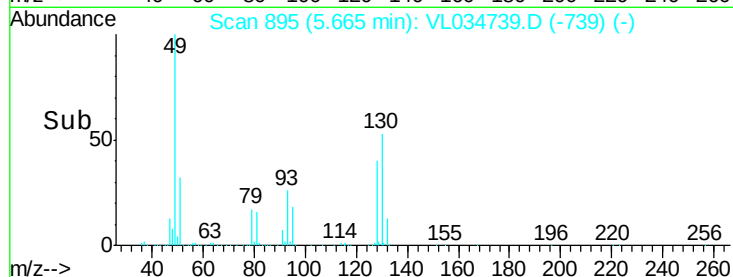
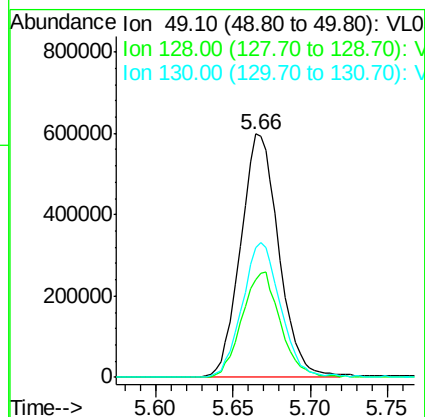
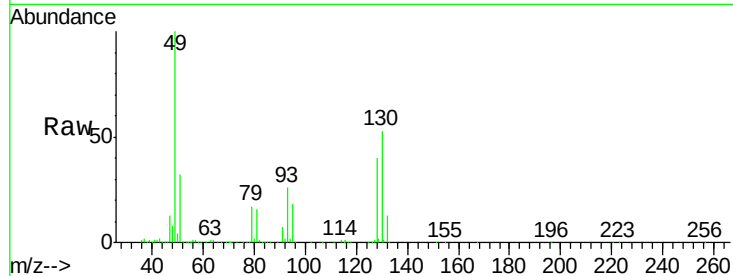
130 55.9 27.7 83.1

Manual Integrations

APPROVED

MMDadoda

3/2/2020 1:01:20 PM



#2

Dichlorodifluoromethane

Concen: 0.282 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034739.D

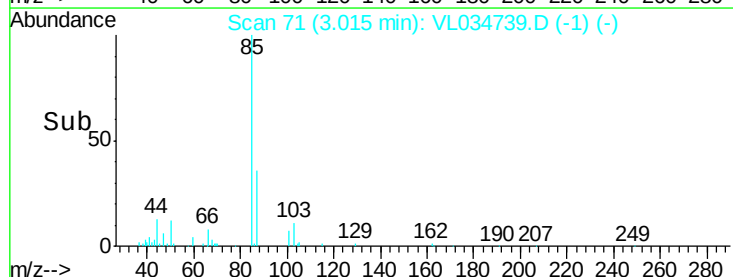
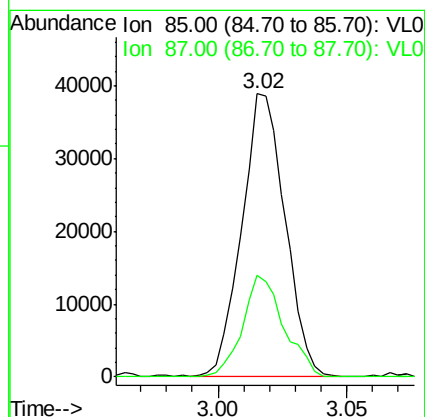
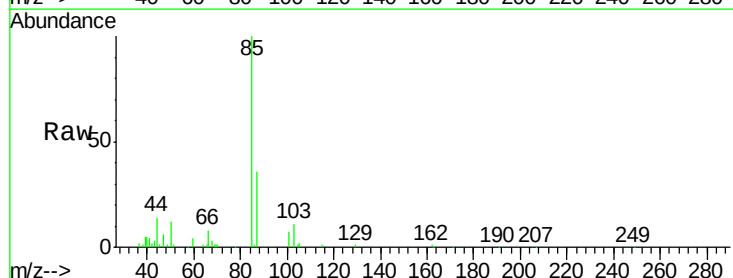
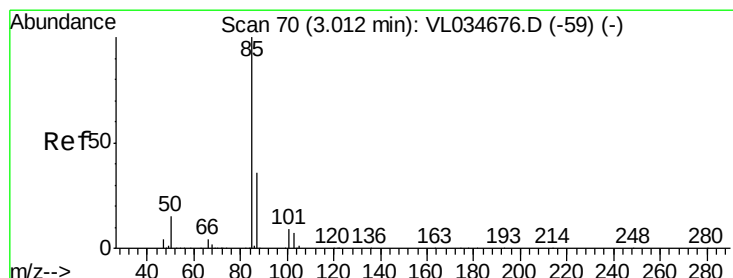
Acq: 28 Feb 2020 16:27

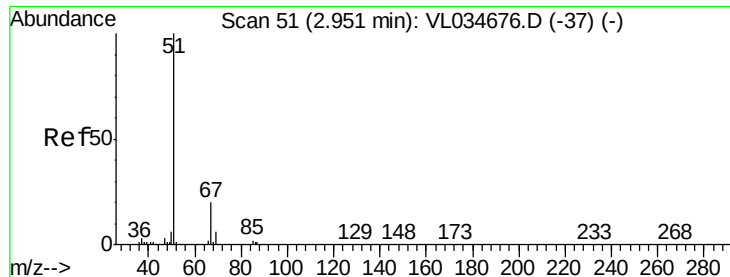
Tgt Ion: 85 Resp: 45778

Ion Ratio Lower Upper

85 100

87 36.1 29.2 43.8





#3

Chlorodifluoromethane

Concen: 0.305 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-TROPHY-CASE

Tot Ion: 51 Resp: 33802

Ion Ratio Lower Upper

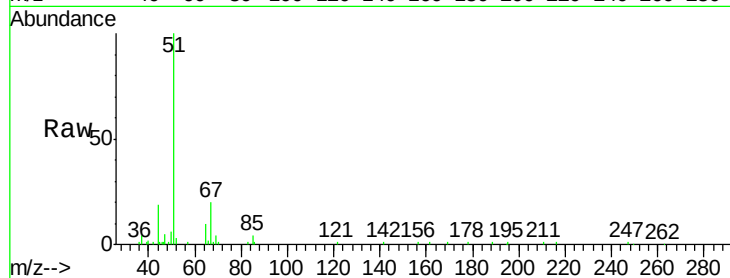
51 100

67 25.1 15.5 23.3#

Manual Integrations
APPROVED

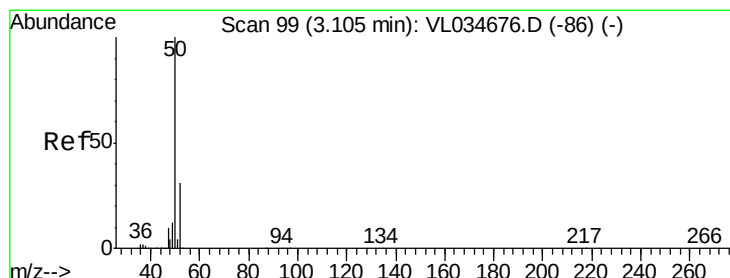
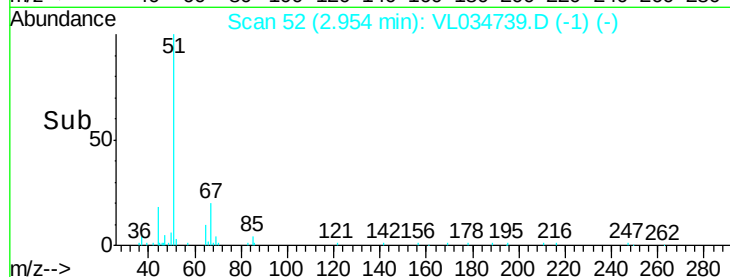
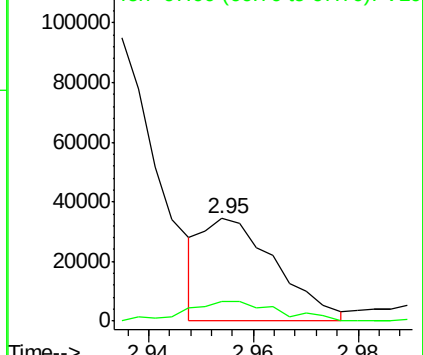
MMDadoda

3/2/2020 1:01:20 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.543 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.01 min

Lab File: VL034739.D

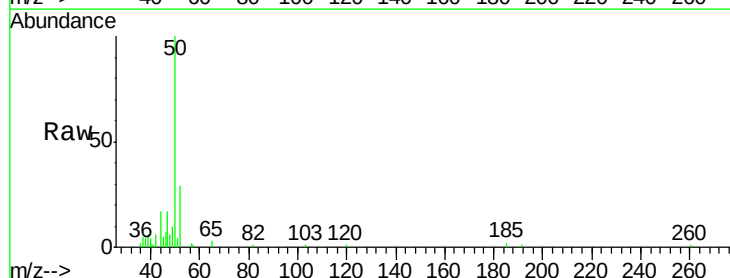
Acq: 28 Feb 2020 16:27

Tgt Ion: 50 Resp: 33709

Ion Ratio Lower Upper

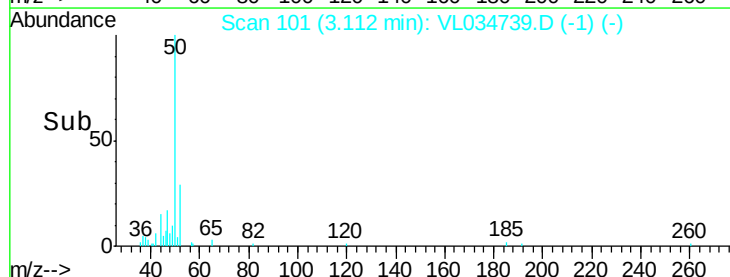
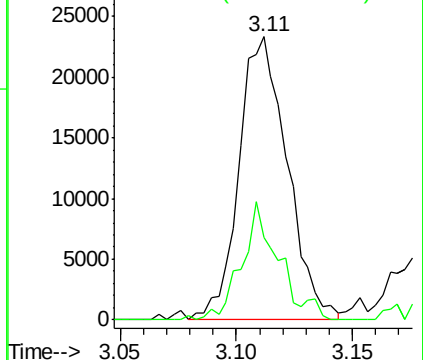
50 100

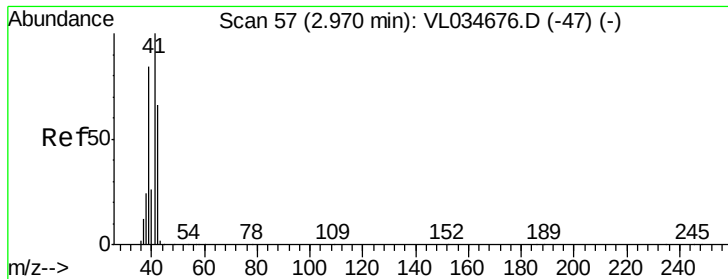
52 29.1 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.309 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. 0.02 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-TROPHY-CASE

Tot Ion: 41 Resp: 60659

Ion Ratio Lower Upper

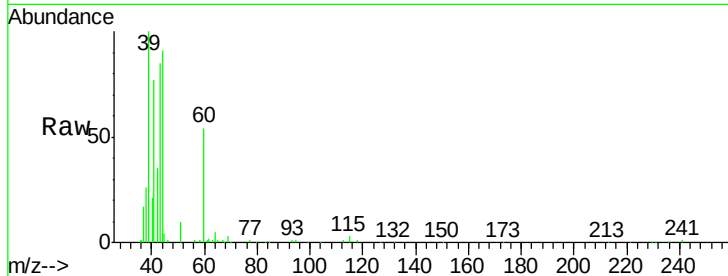
41 100

42 255.9 54.9 82.3#

Manual Integrations
APPROVED

MMDadoda

3/2/2020 1:01:20 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.99

40000

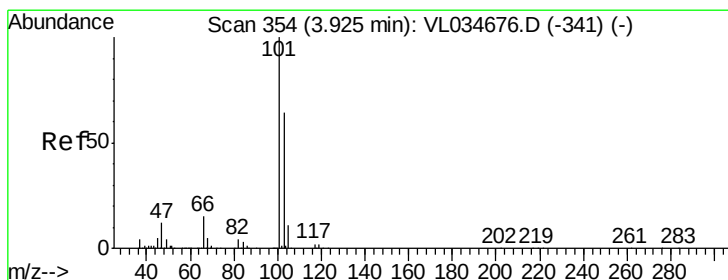
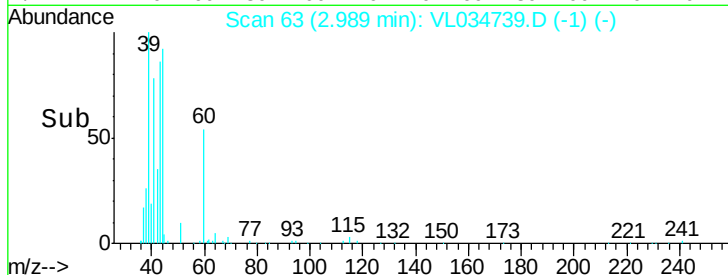
30000

20000

10000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.258 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.01 min

Lab File: VL034739.D

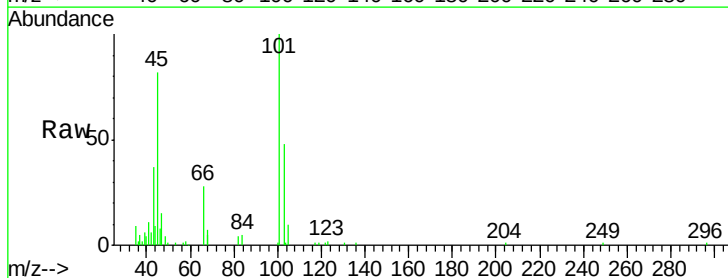
Acq: 28 Feb 2020 16:27

Tgt Ion:101 Resp: 36670

Ion Ratio Lower Upper

101 100

103 47.1 51.2 76.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.93

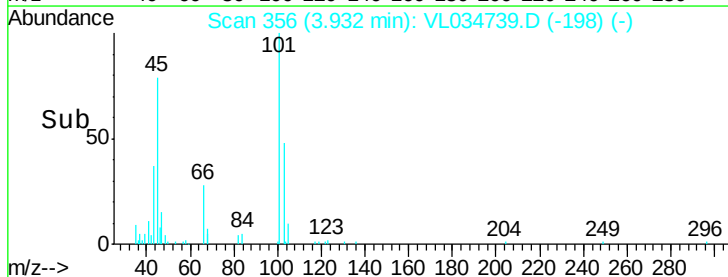
30000

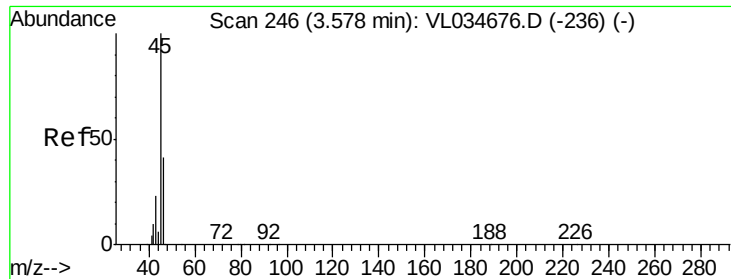
20000

10000

0

Time-->





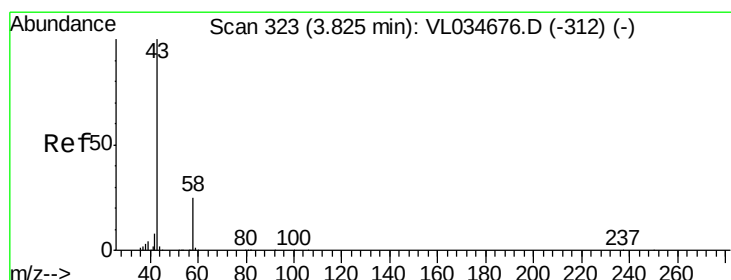
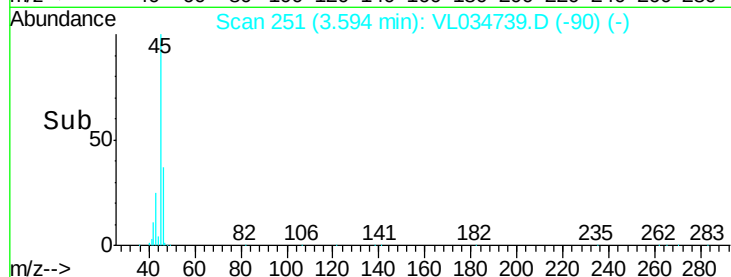
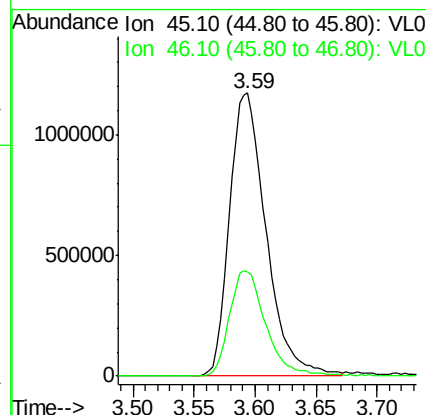
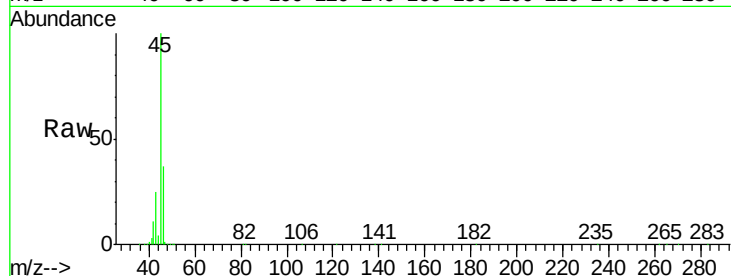
#13
Ethanol
Concen: 167.904 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.02 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-TROPHY-CASE

Tot Ion: 45 Resp: 2458223
Ion Ratio Lower Upper
45 100
46 37.3 15.4 61.4

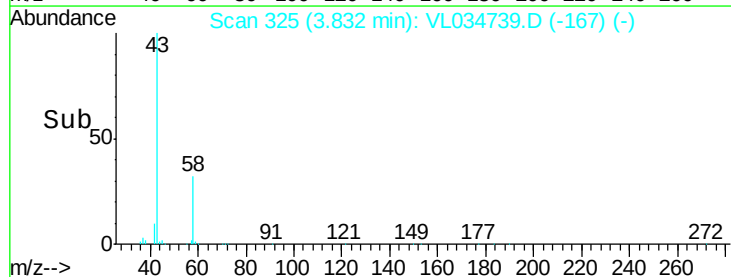
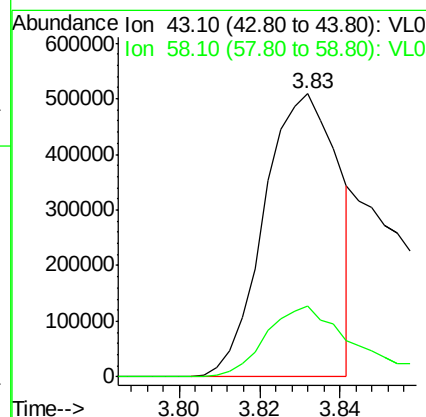
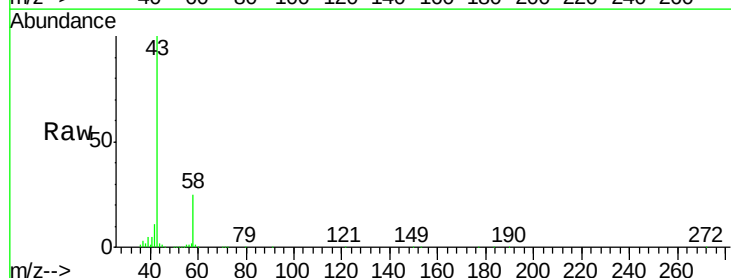
Manual Integrations
APPROVED

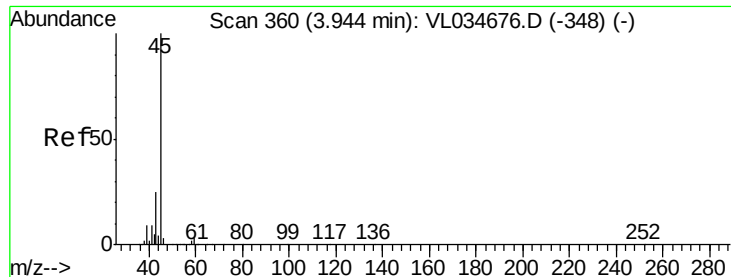
MMDadoda
3/2/2020 1:01:20 PM



#15
Acetone
Concen: 5.558 ppbv m
RT: 3.83 min Scan# 325
Delta R.T. 0.01 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Tgt Ion: 43 Resp: 650638
Ion Ratio Lower Upper
43 100
58 30.2 21.4 32.0





#19

Isopropyl Alcohol

Concen: 64.503 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-TROPHY-CASE

Tot Ion: 45 Resp: 4497823

Ion Ratio Lower Upper

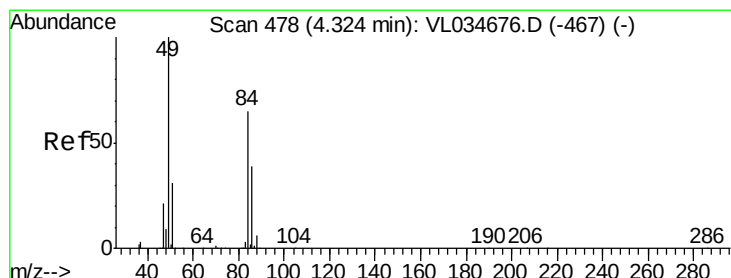
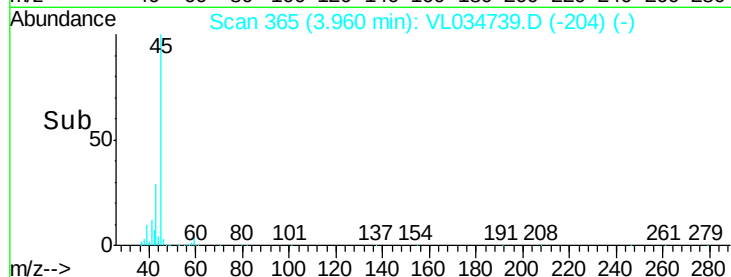
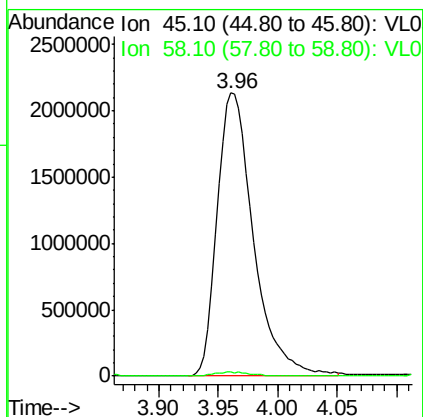
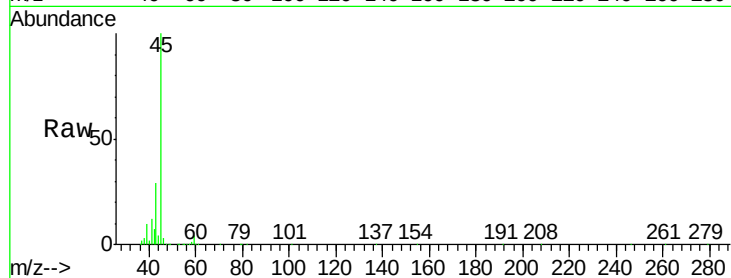
45 100

58 1.6 1.8 2.6#

Manual Integrations
APPROVED

MMDadoda

3/2/2020 1:01:20 PM



#20

Methylene Chloride

Concen: 2.849 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.01 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

Tgt Ion: 84 Resp: 124058

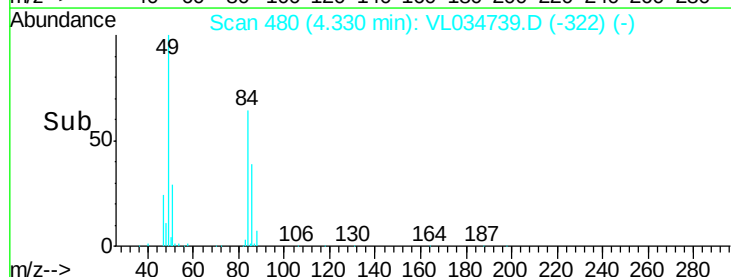
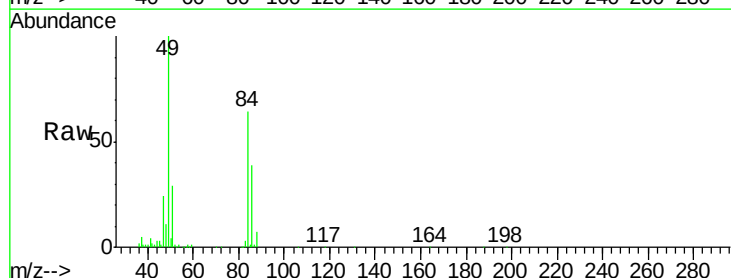
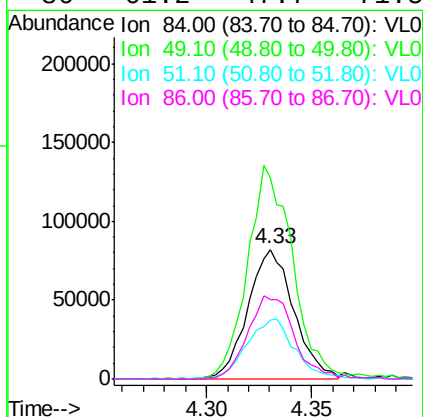
Ion Ratio Lower Upper

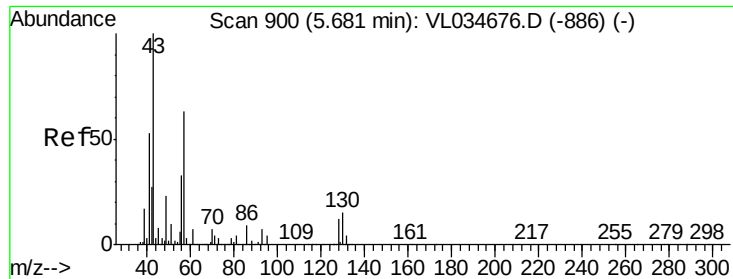
84 100

49 154.5 122.8 184.2

51 46.3 38.6 58.0

86 61.2 47.7 71.5





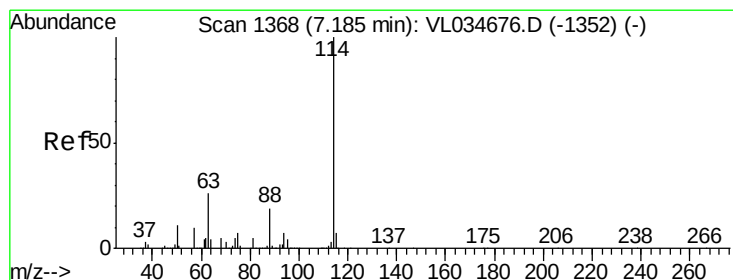
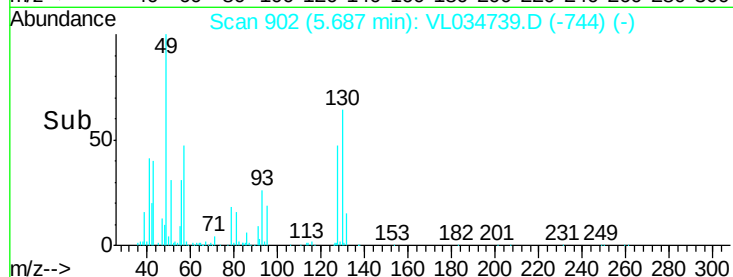
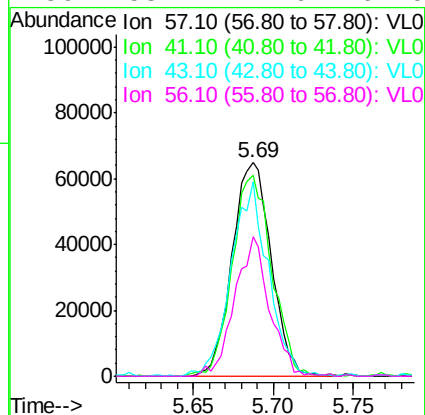
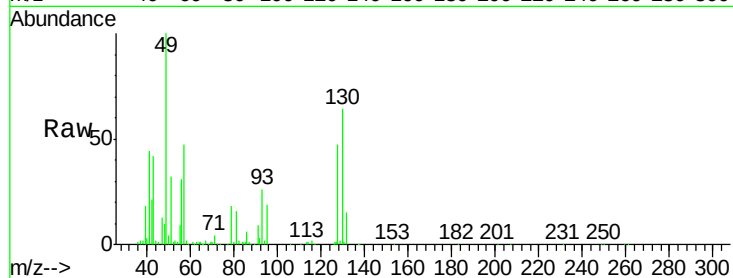
#26
Hexane
Concen: 1.127 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-TROPHY-CASE

Tot Ion	57	Resp	107606
Ion	Ratio	Lower	Upper
57	100		
41	95.4	70.3	105.5
43	86.5	177.0	265.4#
56	58.2	42.6	64.0

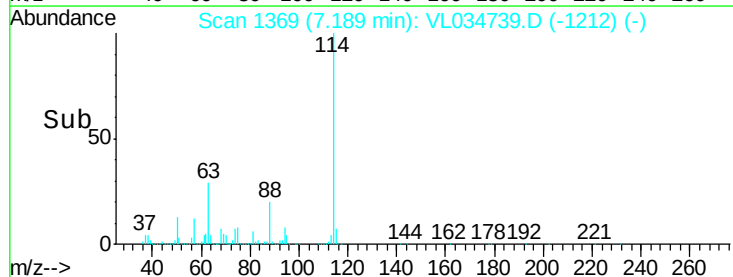
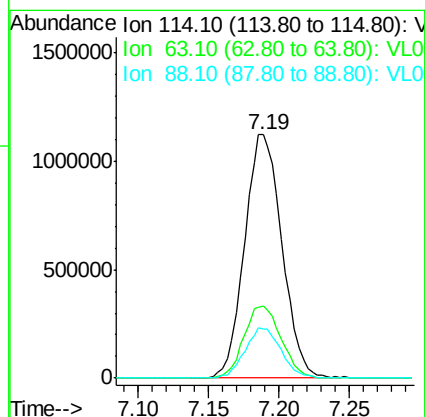
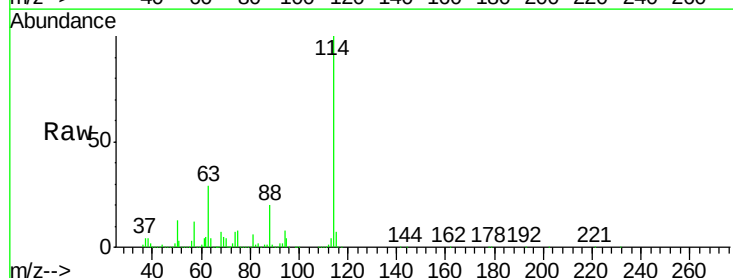
Manual Integrations
APPROVED

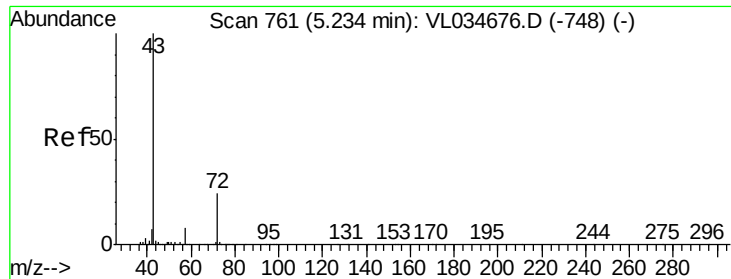
MMDadoda
3/2/2020 1:01:20 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Tgt Ion	114	Resp	2081612
Ion	Ratio	Lower	Upper
114	100		
63	29.8	22.9	34.3
88	20.0	15.8	23.6





#34

2-Butanone

Concen: 0.266 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-TROPHY-CASE

Tot Ion: 43 Resp: 34899

Ion Ratio Lower Upper

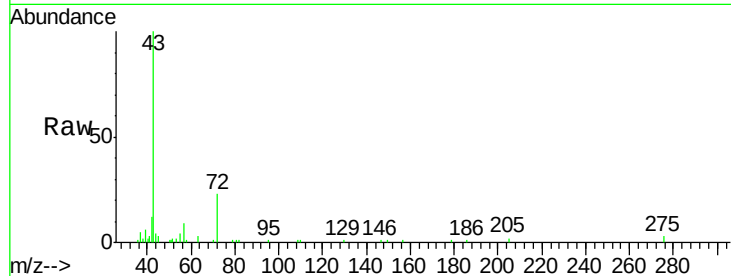
43 100

72 20.8 18.2 27.2

Manual Integrations
APPROVED

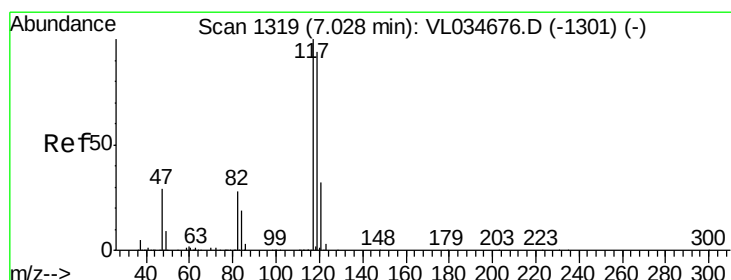
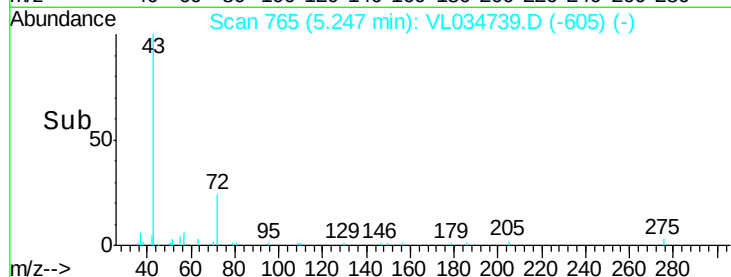
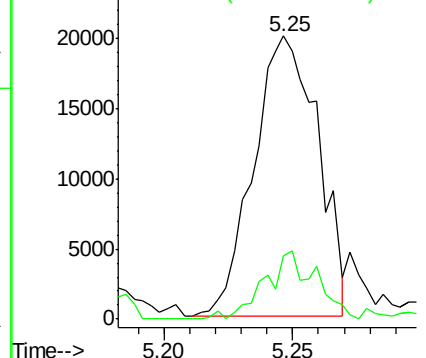
MMDadoda

3/2/2020 1:01:20 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.079 ppbv m

RT: 7.04 min Scan# 1323

Delta R.T. 0.01 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

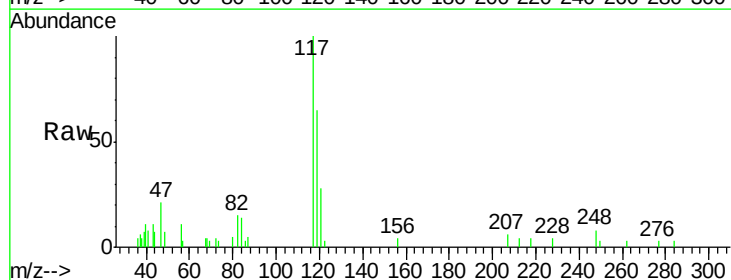
Tgt Ion: 117 Resp: 11013

Ion Ratio Lower Upper

117 100

119 64.7 75.5 113.3#

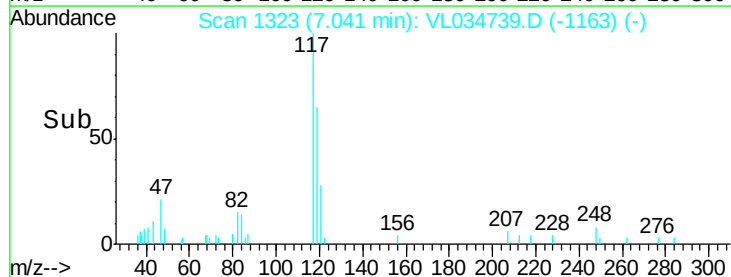
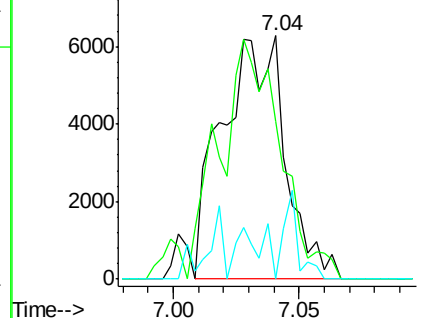
121 0.0 25.4 38.0#

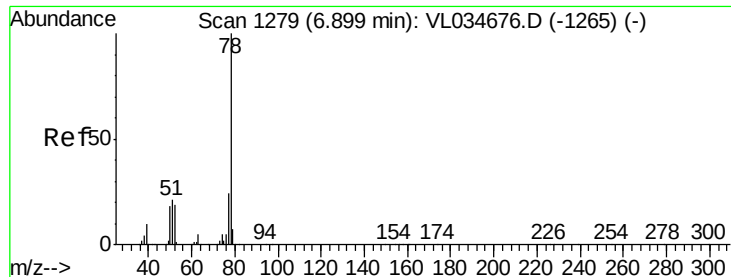


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

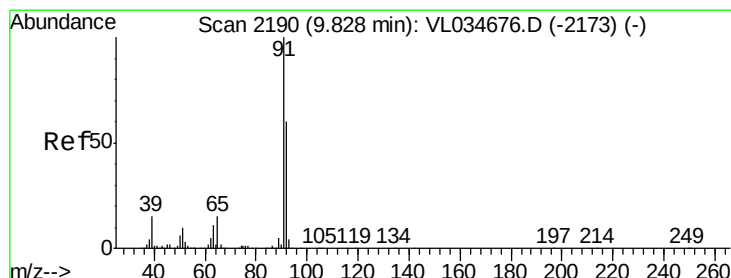
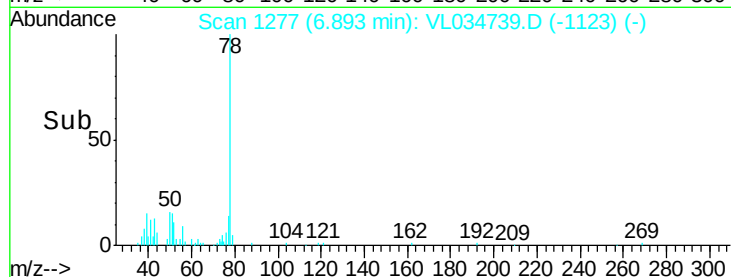
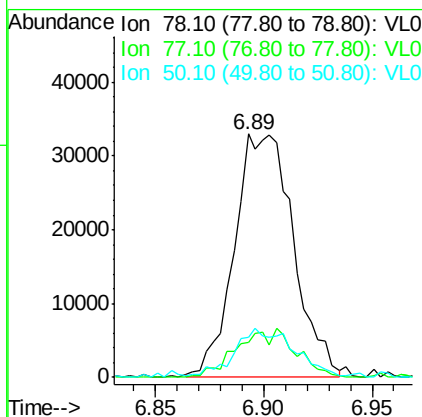
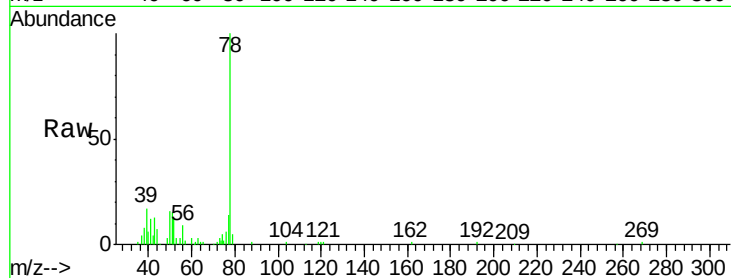
Concen: 0.346 ppbv m
 RT: 6.89 min Scan# 1277
 Delta R.T. -0.01 min
 Lab File: VL034739.D
 Acq: 28 Feb 2020 16:27

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-9-TROPHY-CASE

Tot Ion	Ratio	Lower	Upper
78	100		
77	14.5	19.5	29.3#
50	16.4	14.6	21.8

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 1:01:20 PM

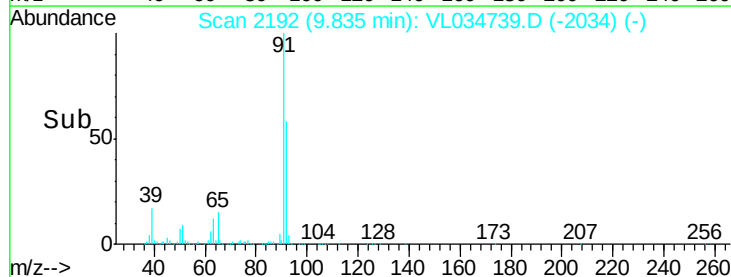
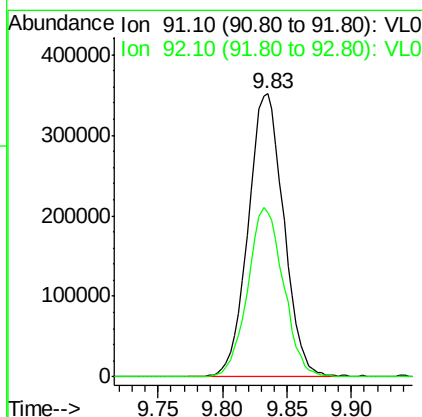
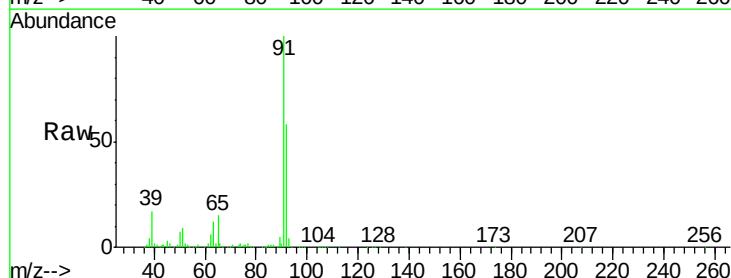


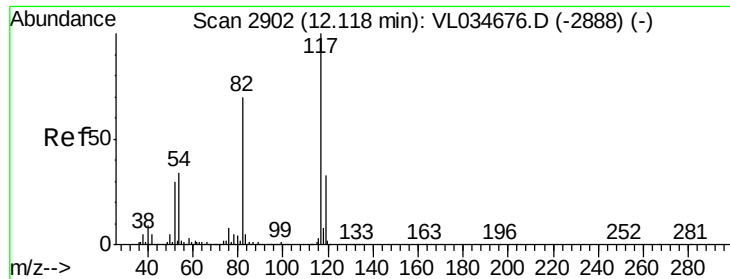
#53

Toluene

Concen: 3.541 ppbv
 RT: 9.83 min Scan# 2192
 Delta R.T. 0.01 min
 Lab File: VL034739.D
 Acq: 28 Feb 2020 16:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.5	72.7





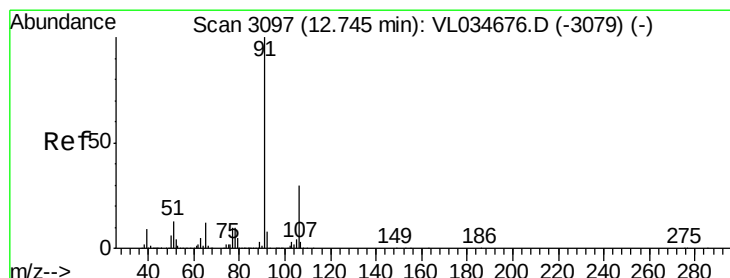
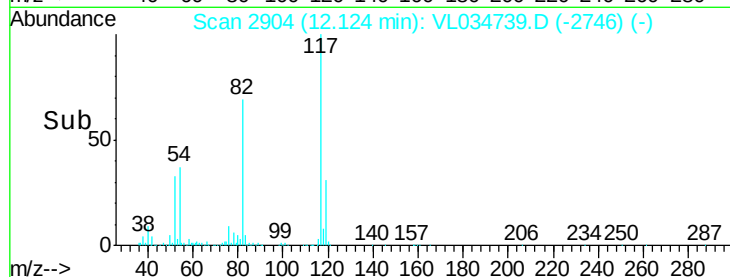
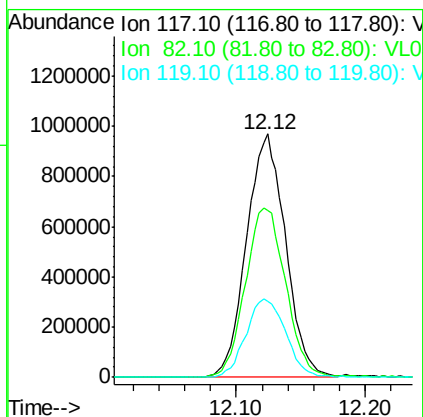
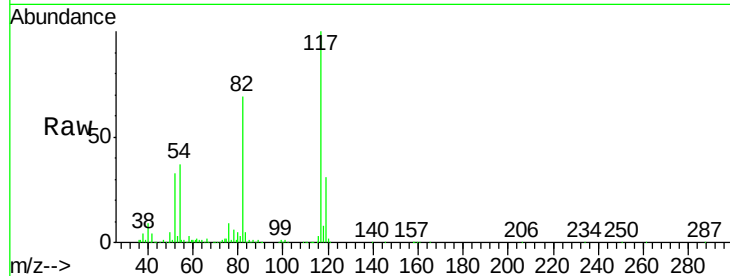
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.01 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-TROPHY-CASE

Tot Ion:117 Resp: 2042745
Ion Ratio Lower Upper
117 100
82 72.7 54.1 81.1
119 33.4 27.6 41.4

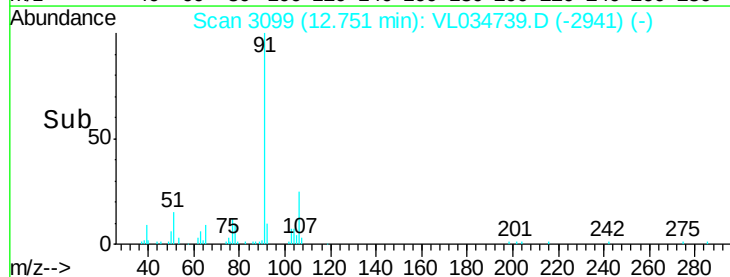
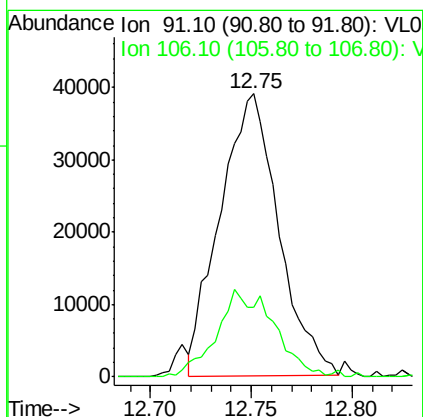
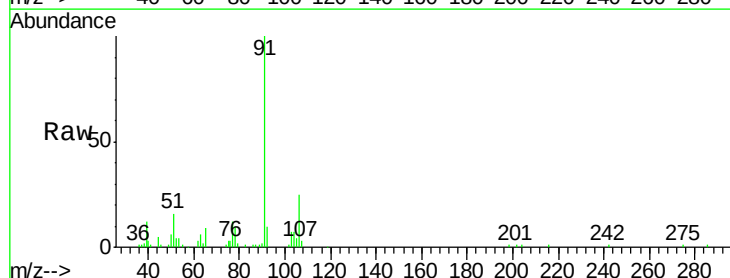
Manual Integrations
APPROVED

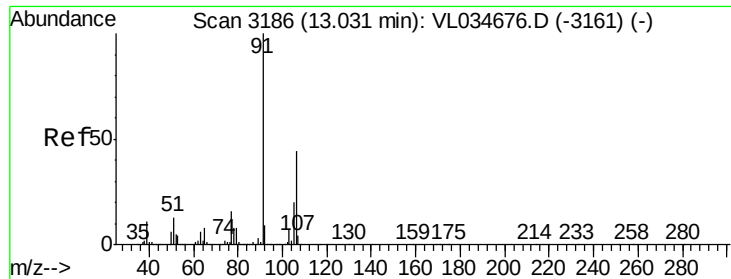
MMDadoda
3/2/2020 1:01:20 PM



#58
Ethyl Benzene
Concen: 0.320 ppbv
RT: 12.75 min Scan# 3099
Delta R.T. 0.01 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Tgt Ion: 91 Resp: 79014
Ion Ratio Lower Upper
91 100
106 22.7 24.0 36.0#





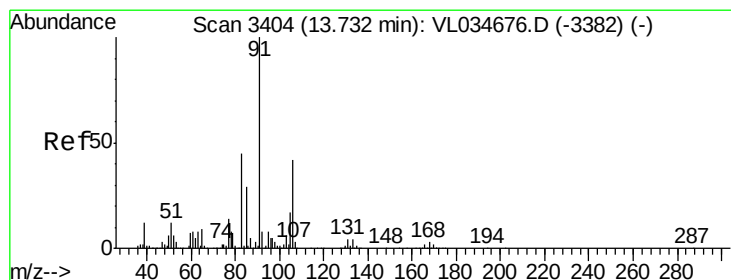
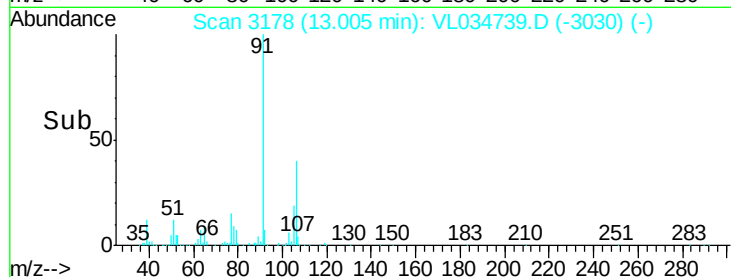
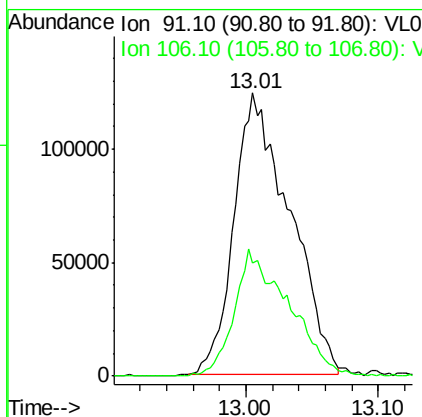
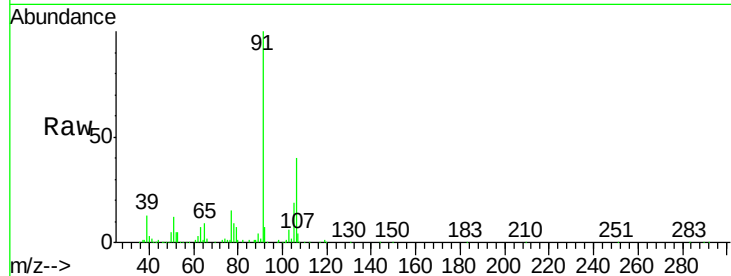
#59
m/p-Xylene
Concen: 1.685 ppbv
RT: 13.01 min Scan# 3178
Delta R.T. -0.03 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-TROPHY-CASE

Tot Ion	Ratio	Lower	Upper
91	100		
106	43.9	35.6	53.4

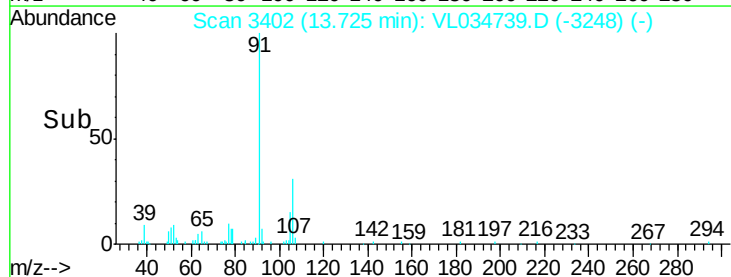
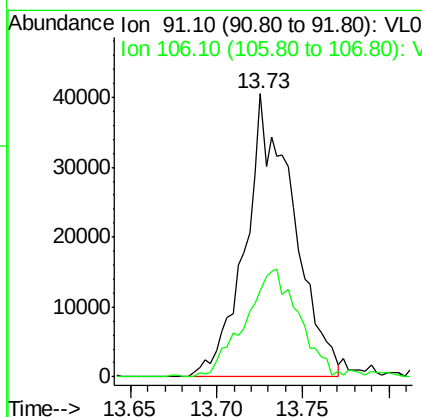
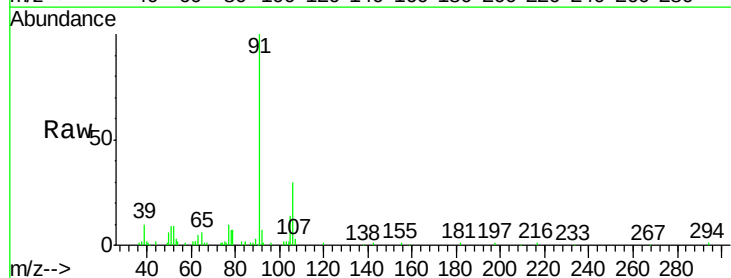
Manual Integrations
APPROVED

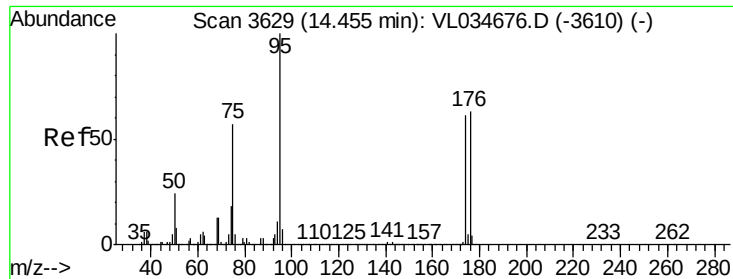
MMDadoda
3/2/2020 1:01:20 PM



#60
o-Xylene
Concen: 0.370 ppbv m
RT: 13.73 min Scan# 3402
Delta R.T. -0.01 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.0	21.9	65.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.609 ppbv
 RT: 14.46 min Scan# 3630
 Delta R.T. 0.00 min
 Lab File: VL034739.D
 Acq: 28 Feb 2020 16:27

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-9-TROPHY-CASE

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	63.3	50.7	76.1	
175	4.6	3.9	5.9	

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 1:01:20 PM

