

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022820\
 Data File : VL034738.D
 Acq On : 28 Feb 2020 15:46
 Operator : SY/AP
 Sample : L1662-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-8-RM-NEXT-TO-COUNSELOR-R

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 1:01:18 PM

Quant Time: Mar 02 11:50:34 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	5.67	49	1010169	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2057413	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2055542	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1770883	10.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	43506	0.273	ppbv	94
3) Chlorodifluoromethane	2.95	51	32941m	0.302	ppbv	
4) Chloromethane	3.11	50	37750	0.619	ppbv	97
9) Propene	3.18	41	147434	3.235	ppbv	95
11) Trichlorofluoromethane	3.93	101	38465	0.276	ppbv	91
13) Ethanol	3.60	45	4113602	285.749	ppbv	99
15) Acetone	3.83	43	802388m	6.971	ppbv	
19) Isopropyl Alcohol	3.97	45	7473077	108.994	ppbv #	98
20) Methylene Chloride	4.33	84	68206	1.593	ppbv	97
26) Hexane	5.69	57	86406	0.920	ppbv #	51
34) 2-Butanone	5.25	43	44921	0.347	ppbv	98
35) Carbon Tetrachloride	7.02	117	10694m	0.078	ppbv	
36) Benzene	6.90	78	63440	0.357	ppbv	96
53) Toluene	9.83	91	616685	3.263	ppbv	97
58) Ethyl Benzene	12.75	91	25805m	0.104	ppbv	
59) m/p-Xylene	13.01	91	86850m	0.400	ppbv	
60) o-Xylene	13.73	91	28993m	0.135	ppbv	

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

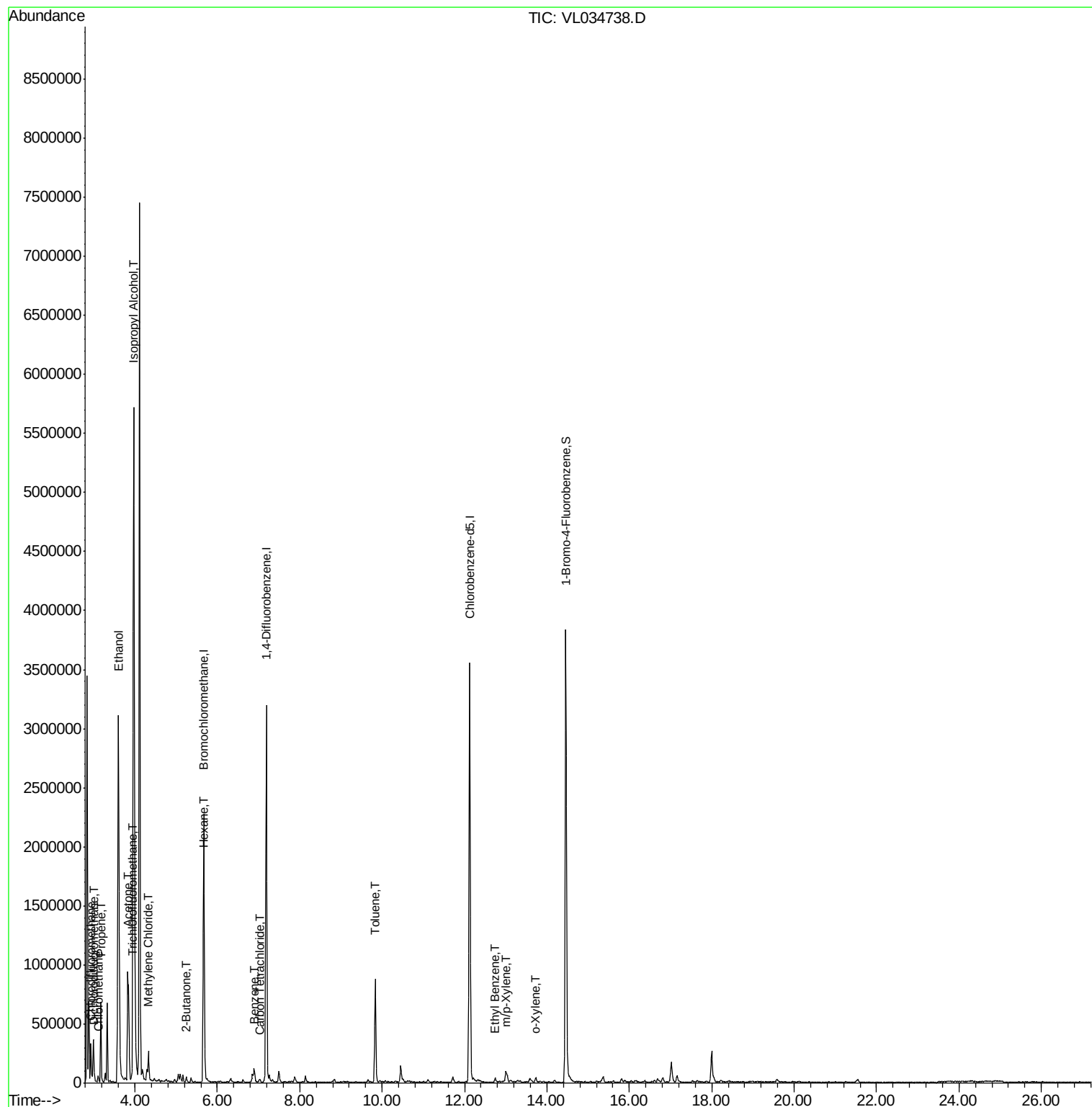
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022820\
Data File : VL034738.D
Acq On : 28 Feb 2020 15:46
Operator : SY/AP
Sample : L1662-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

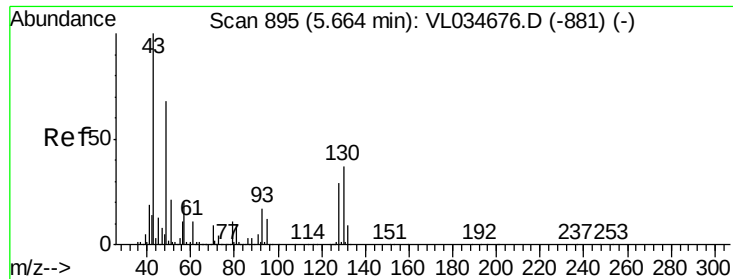
Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-COUNSELOR-R

Manual Integrations
APPROVED

MMDadoda
3/2/2020 1:01:18 PM

Quant Time: Mar 02 11:50:34 2020
Quant Method : Z:\V0ASRV\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

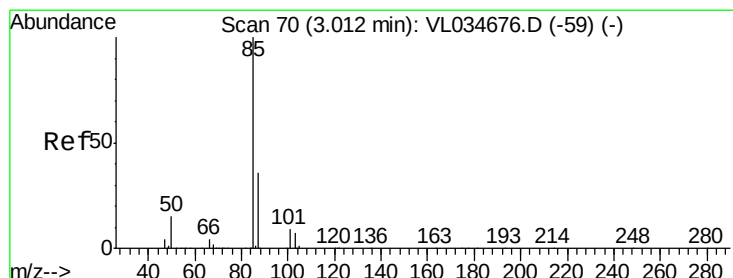
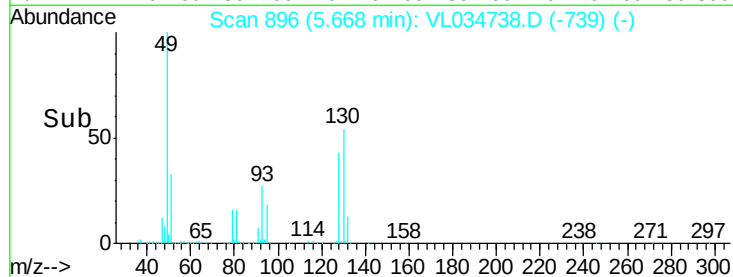
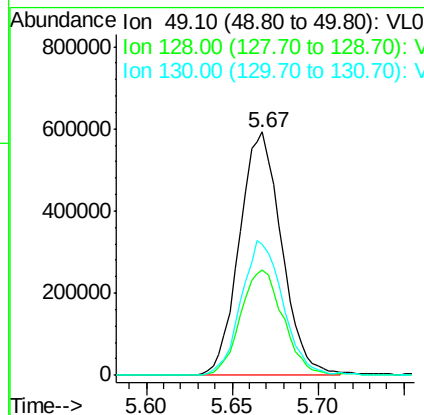
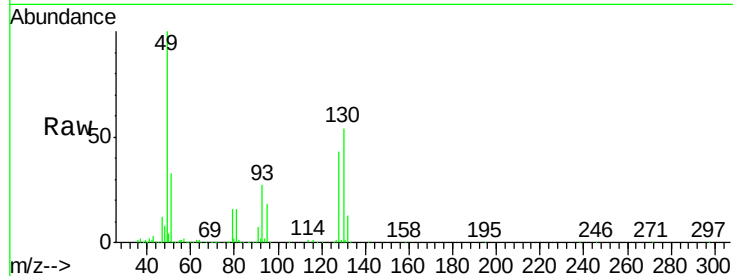
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion: 49 Resp: 1010169
Ion Ratio Lower Upper
49 100
128 44.4 21.6 65.0
130 55.6 27.7 83.1

Manual Integrations
APPROVED

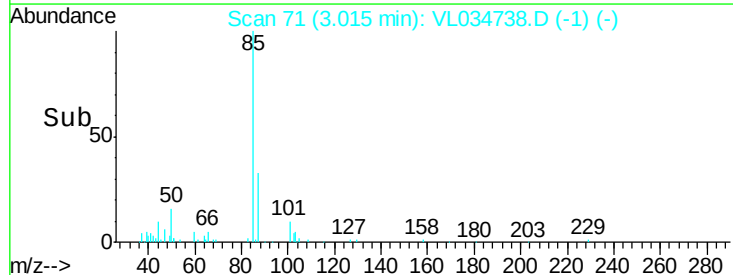
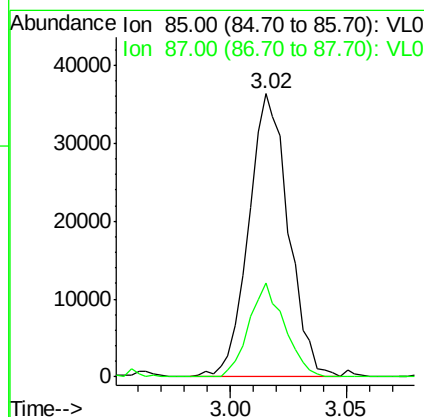
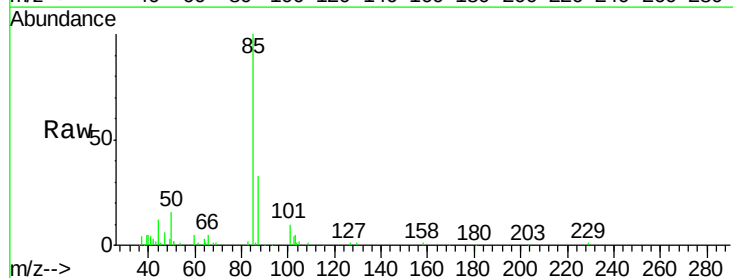
MMDadoda
3/2/2020 1:01:18 PM

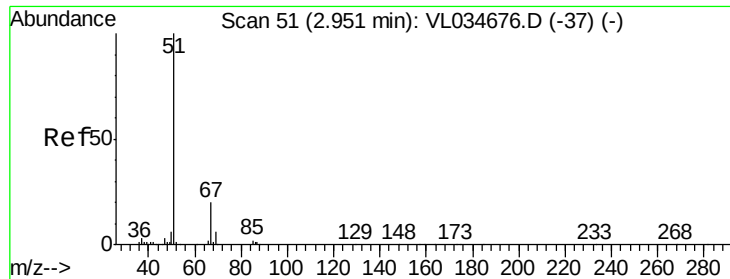


#2

Dichlorodifluoromethane
Concen: 0.273 ppbv
RT: 3.02 min Scan# 71
Delta R.T. 0.00 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Tgt Ion: 85 Resp: 43506
Ion Ratio Lower Upper
85 100
87 33.0 29.2 43.8





#3

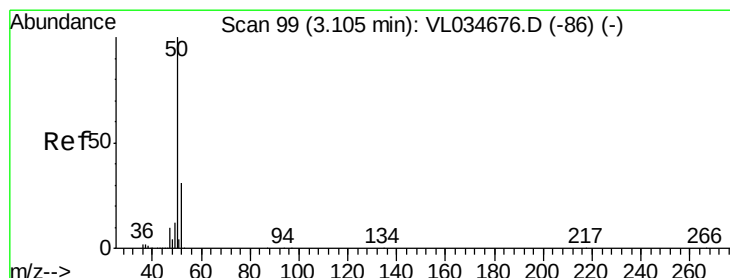
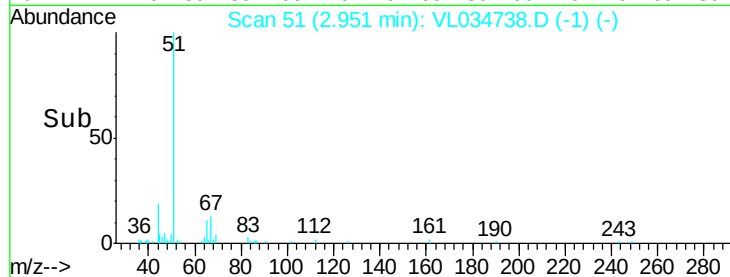
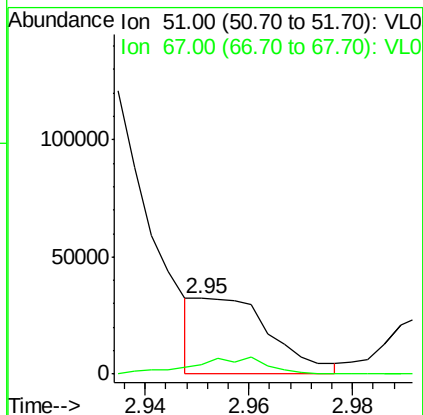
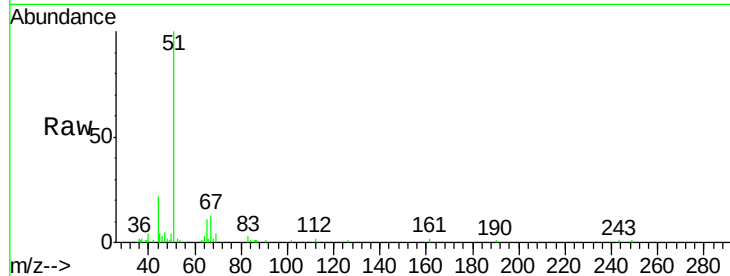
Chlorodifluoromethane
Concen: 0.302 ppbv
RT: 2.95 min Scan# 51
Delta R.T. 0.00 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion	Ratio	Lower	Upper
51	100		
67	22.7	15.5	23.3

Manual Integrations
APPROVED

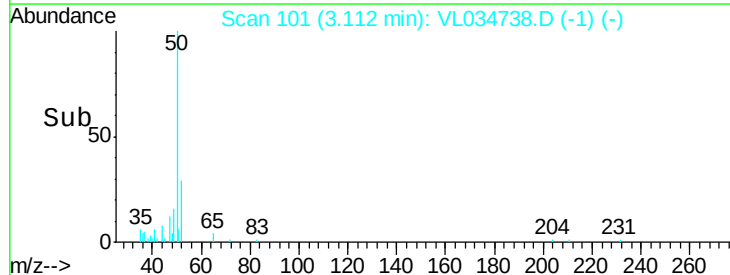
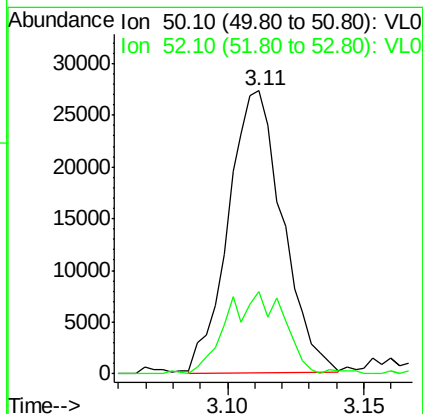
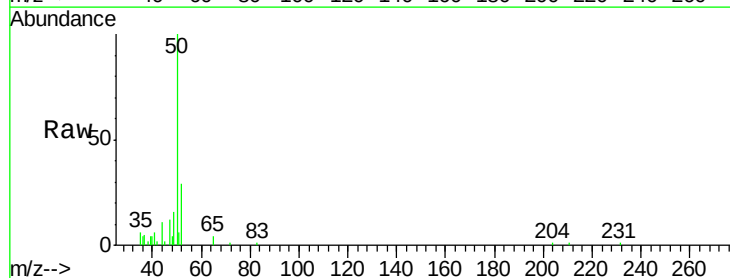
MMDadoda
3/2/2020 1:01:18 PM

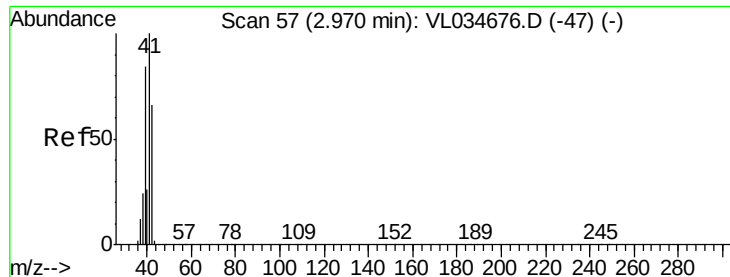


#4

Chloromethane
Concen: 0.619 ppbv
RT: 3.11 min Scan# 101
Delta R.T. 0.01 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.3	25.0	37.4





#9

Propene

Concen: 3.235 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.21 min

Lab File: VL034738.D

Acq: 28 Feb 2020 15:46

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion: 41 Resp: 147434

Ion Ratio Lower Upper

41 100

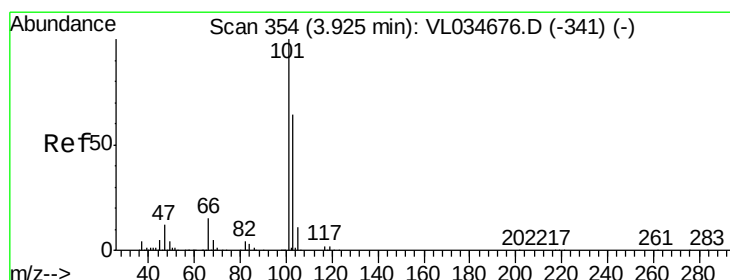
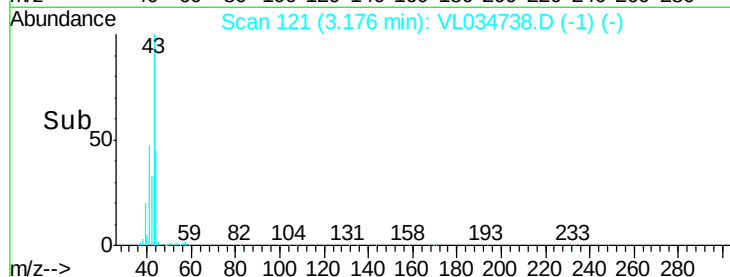
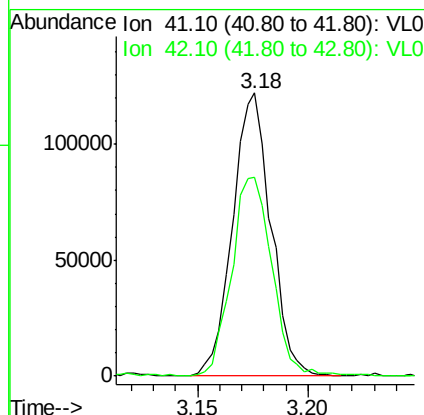
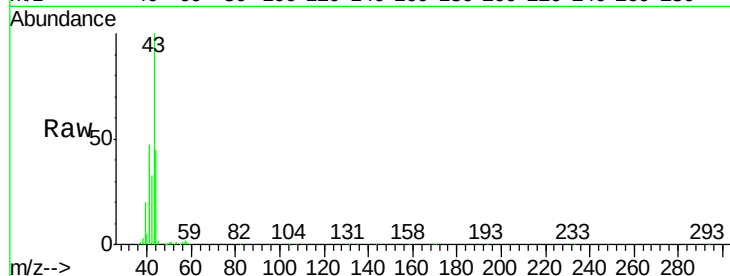
42 72.9 54.9 82.3

Manual Integrations

APPROVED

MMDadoda

3/2/2020 1:01:18 PM



#11

Trichlorofluoromethane

Concen: 0.276 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.01 min

Lab File: VL034738.D

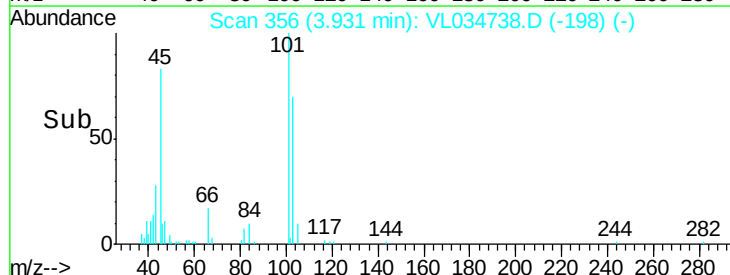
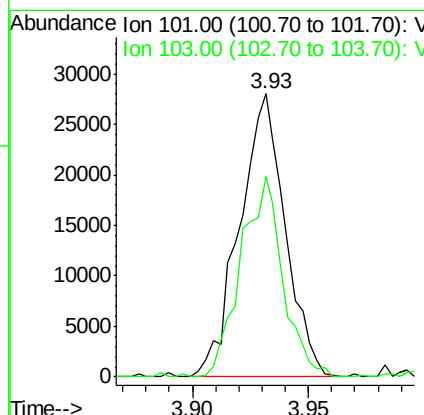
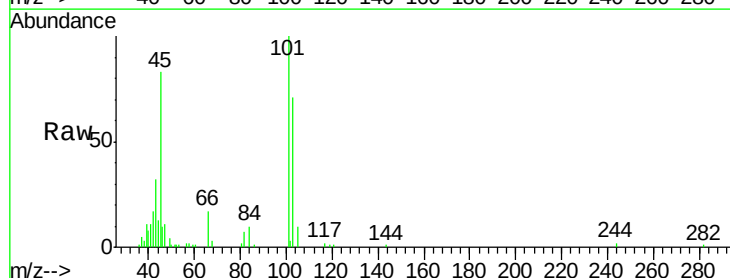
Acq: 28 Feb 2020 15:46

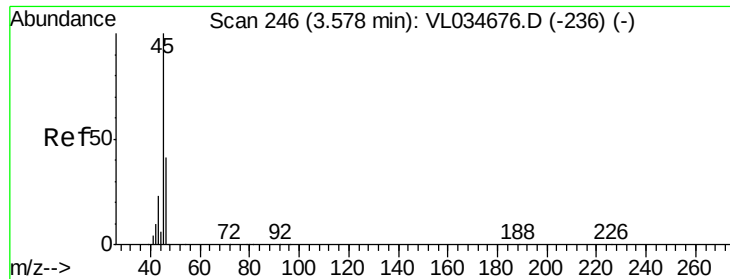
Tgt Ion: 101 Resp: 38465

Ion Ratio Lower Upper

101 100

103 70.9 51.2 76.8





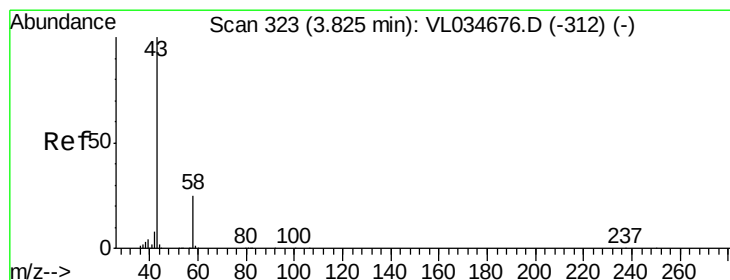
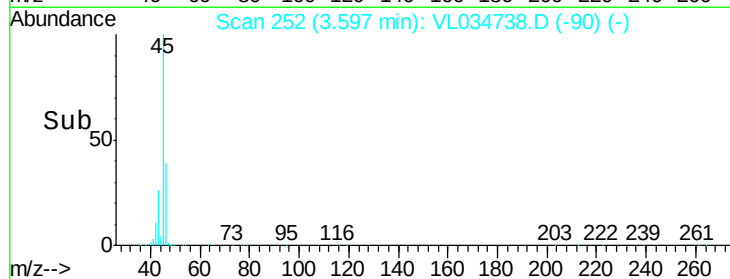
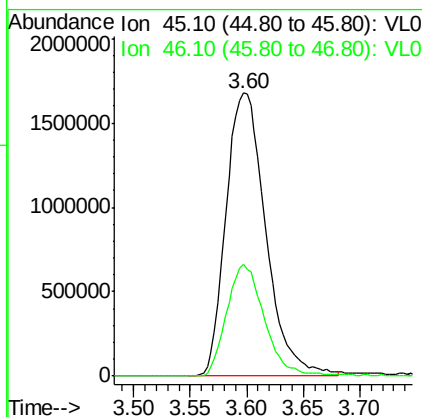
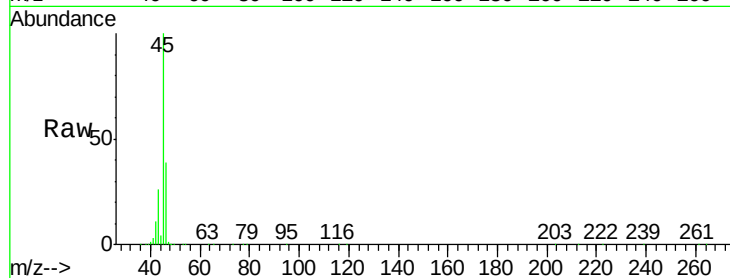
#13
Ethanol
Concen: 285.749 ppbv
RT: 3.60 min Scan# 252
Delta R.T. 0.02 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion: 45 Resp: 4113602
Ion Ratio Lower Upper
45 100
46 37.7 15.4 61.4

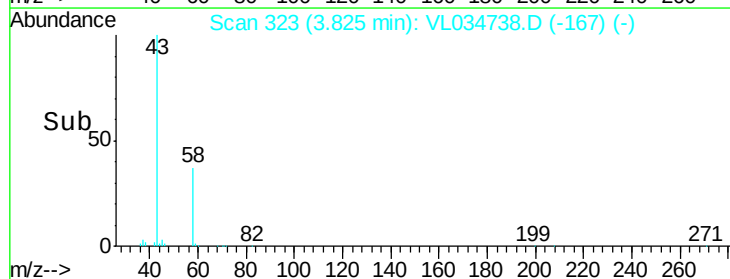
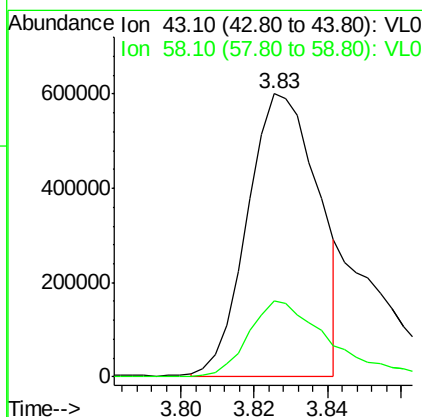
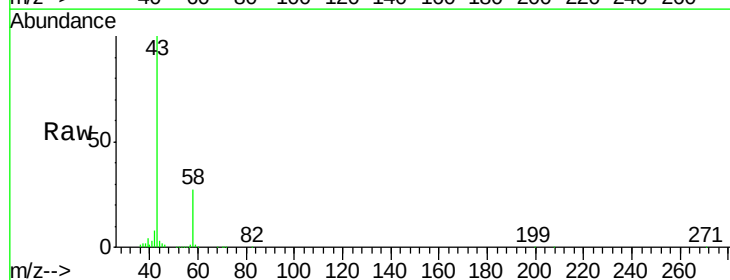
Manual Integrations
APPROVED

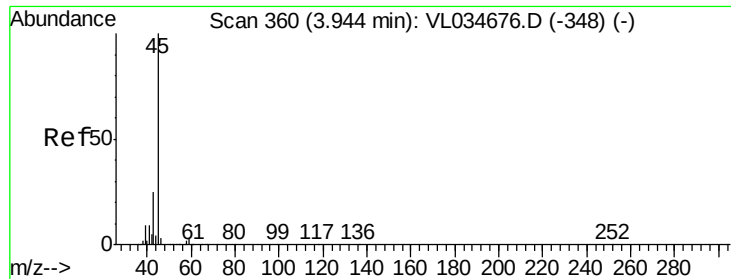
MMDadoda
3/2/2020 1:01:18 PM



#15
Acetone
Concen: 6.971 ppbv m
RT: 3.83 min Scan# 323
Delta R.T. 0.00 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Tgt Ion: 43 Resp: 802388
Ion Ratio Lower Upper
43 100
58 30.9 21.4 32.0





#19

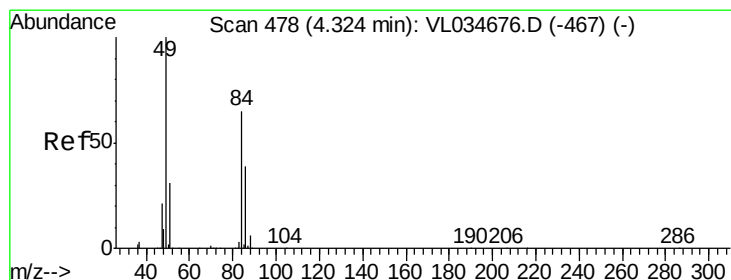
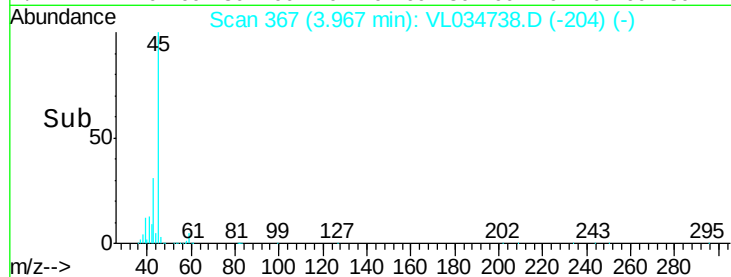
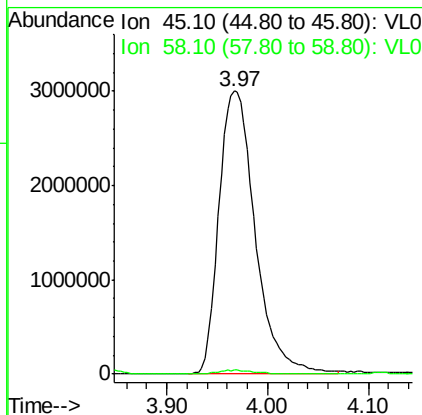
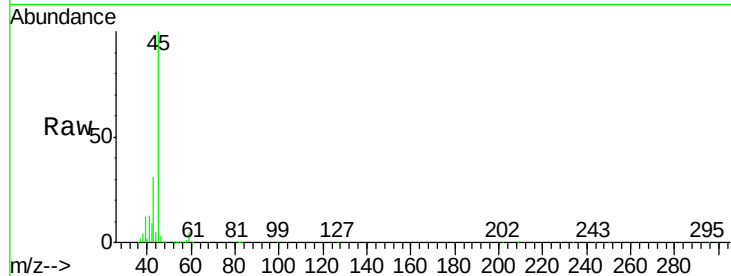
Isopropyl Alcohol
 Concen: 108.994 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VL034738.D
 Acq: 28 Feb 2020 15:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion: 45 Resp: 7473077
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.8 2.6#

Manual Integrations
 APPROVED

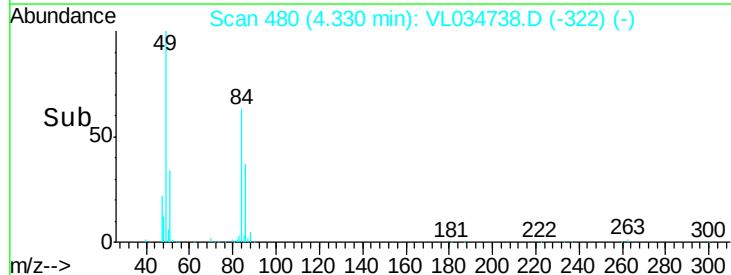
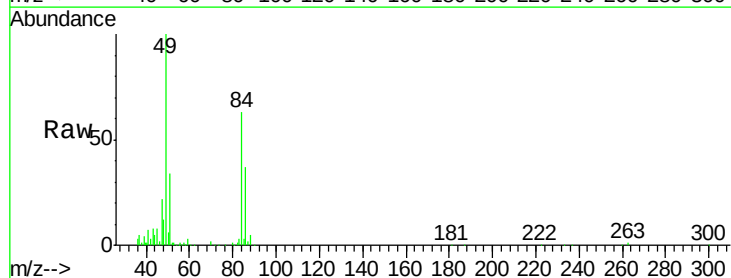
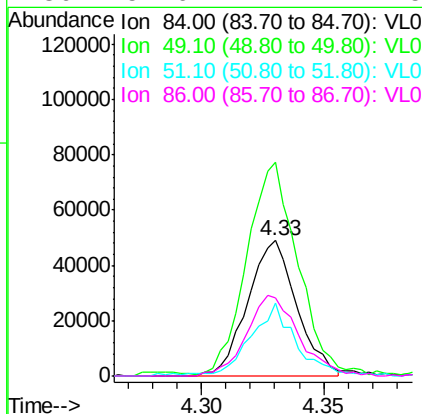
MMDadoda
 3/2/2020 1:01:18 PM

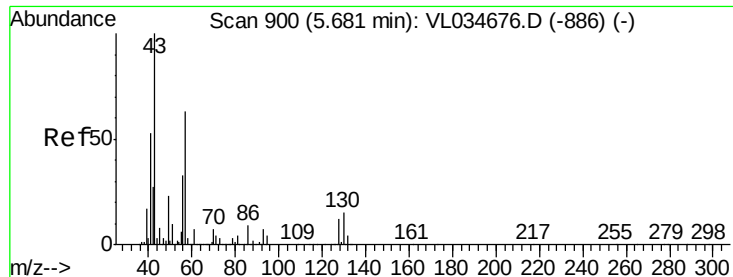


#20

Methylene Chloride
 Concen: 1.593 ppbv
 RT: 4.33 min Scan# 480
 Delta R.T. 0.01 min
 Lab File: VL034738.D
 Acq: 28 Feb 2020 15:46

Tgt Ion: 84 Resp: 68206
 Ion Ratio Lower Upper
 84 100
 49 155.9 122.8 184.2
 51 51.7 38.6 58.0
 86 57.6 47.7 71.5





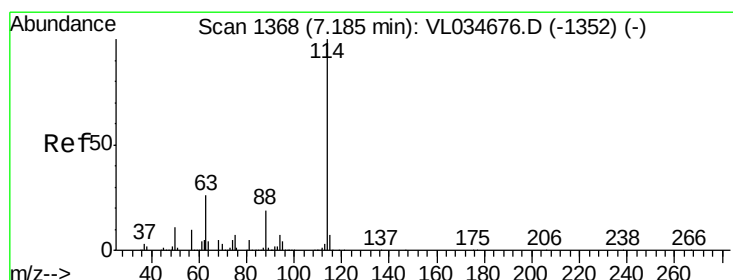
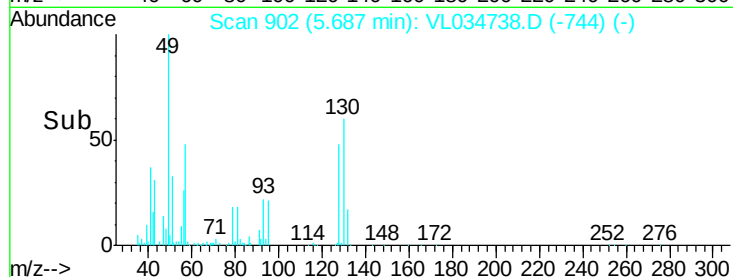
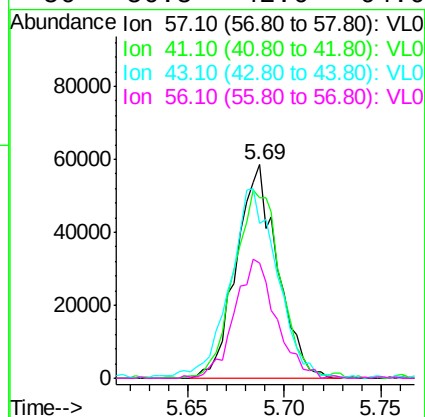
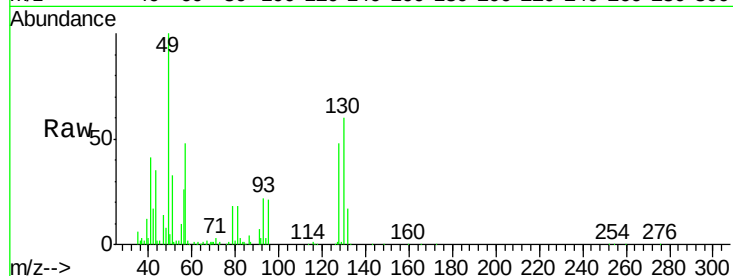
#26
Hexane
Concen: 0.920 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion	57	Resp	86406
Ion	Ratio	Lower	Upper
57	100		
41	100.6	70.3	105.5
43	102.6	177.0	265.4#
56	56.5	42.6	64.0

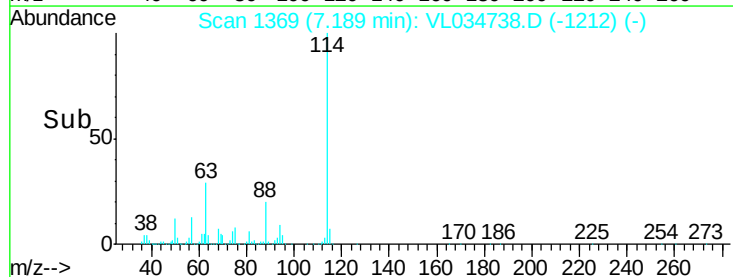
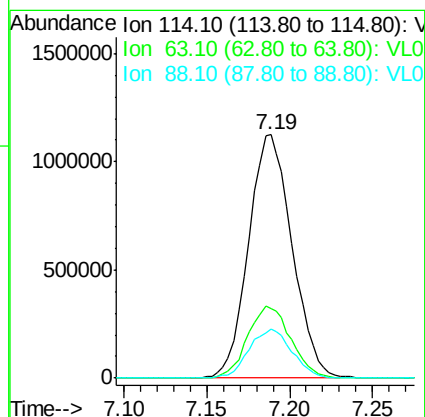
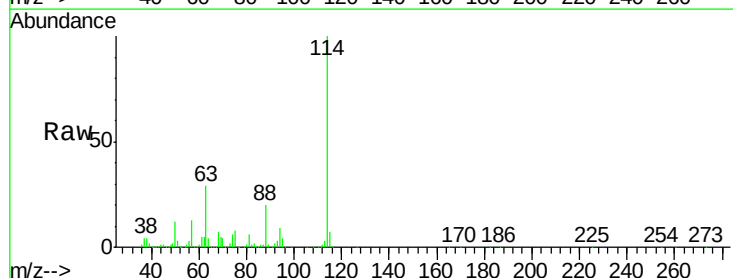
Manual Integrations
APPROVED

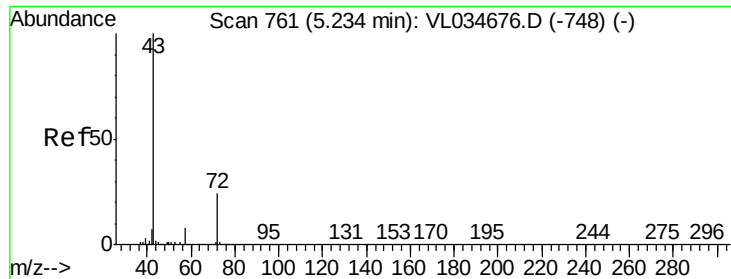
MMDadoda
3/2/2020 1:01:18 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Tgt Ion	114	Resp	2057413
Ion	Ratio	Lower	Upper
114	100		
63	29.5	22.9	34.3
88	19.9	15.8	23.6





#34

2-Butanone

Concen: 0.347 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL034738.D

Acq: 28 Feb 2020 15:46

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion: 43 Resp: 44921

Ion Ratio Lower Upper

43 100

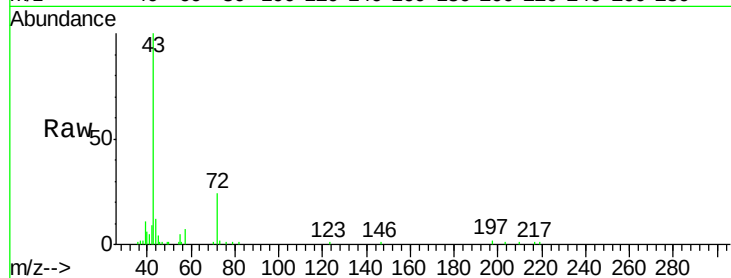
72 21.7 18.2 27.2

Manual Integrations

APPROVED

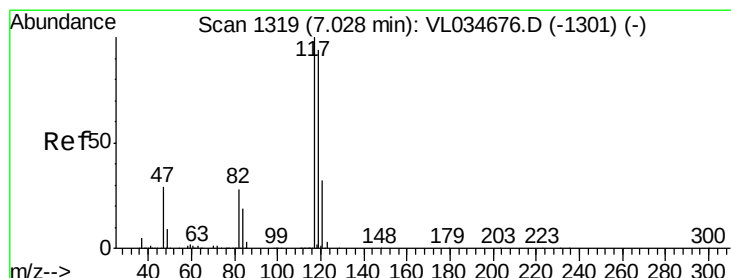
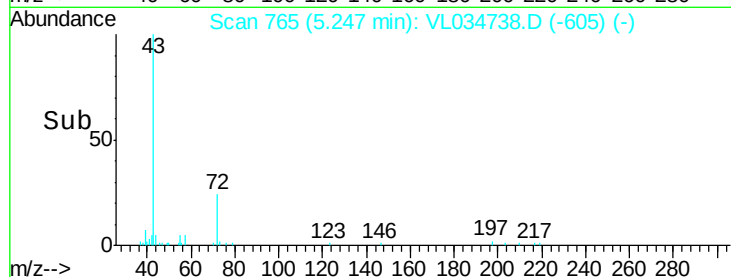
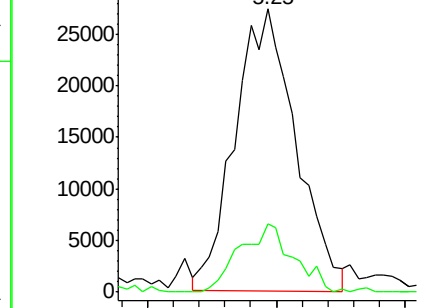
MMDadoda

3/2/2020 1:01:18 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL034738.D

Acq: 28 Feb 2020 15:46

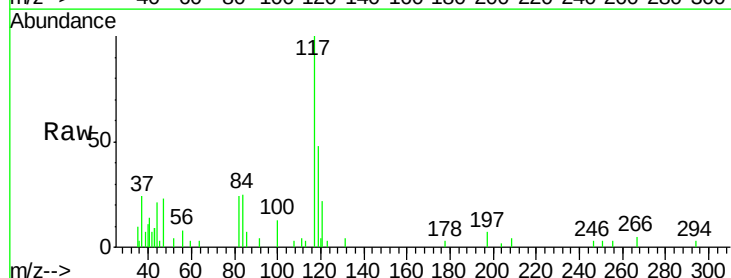
Tgt Ion: 117 Resp: 10694

Ion Ratio Lower Upper

117 100

119 48.5 75.5 113.3#

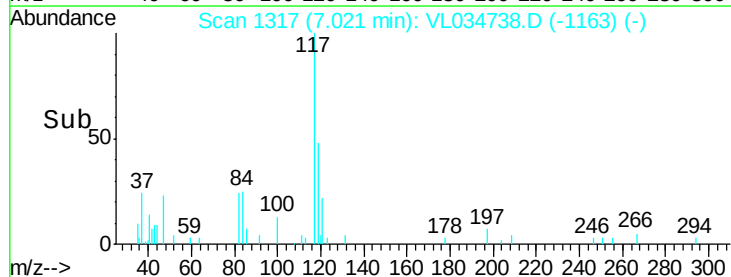
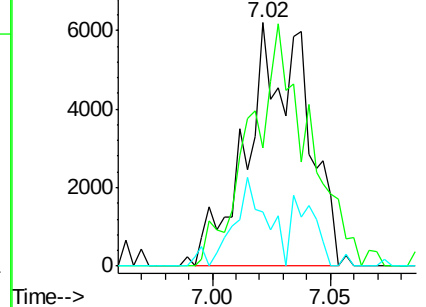
121 22.3 25.4 38.0#

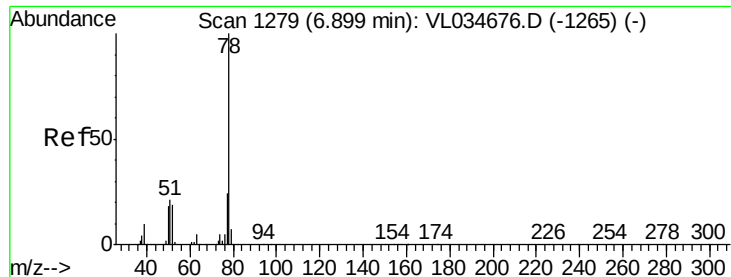


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





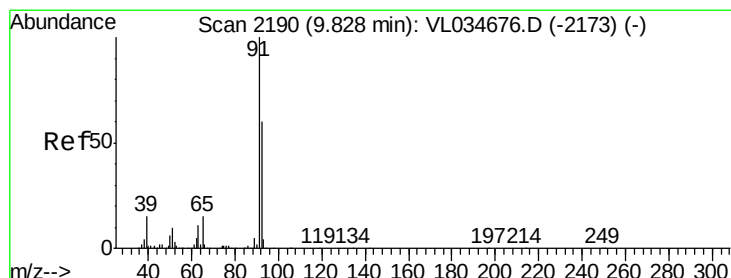
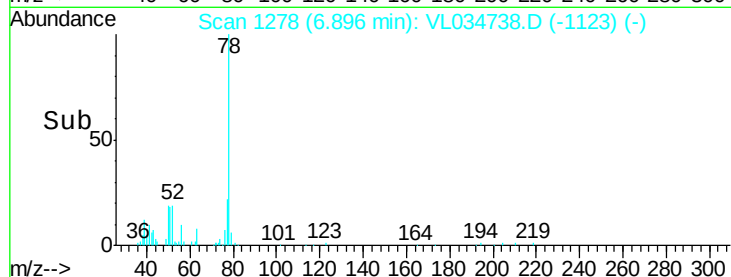
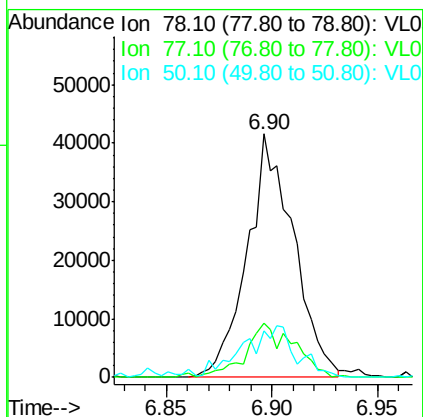
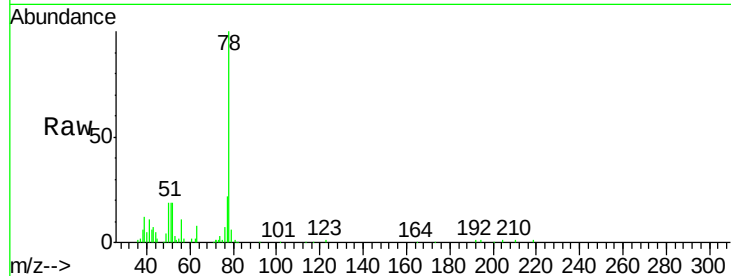
#36
Benzene
Concen: 0.357 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. -0.00 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.7	19.5	29.3
50	18.6	14.6	21.8

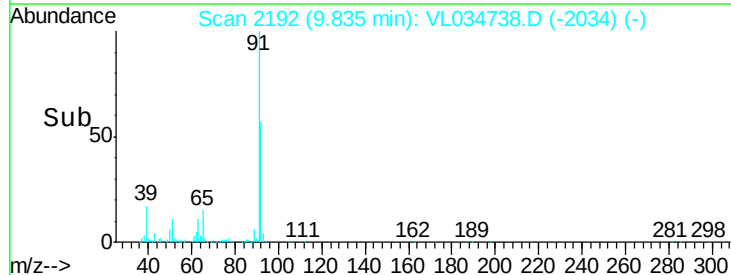
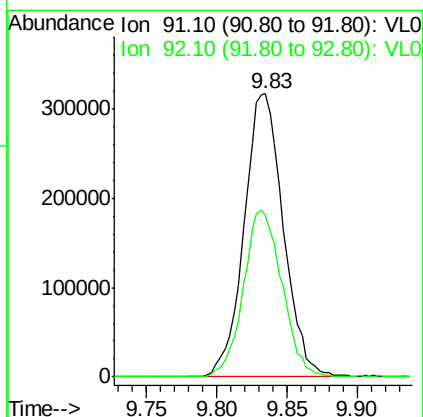
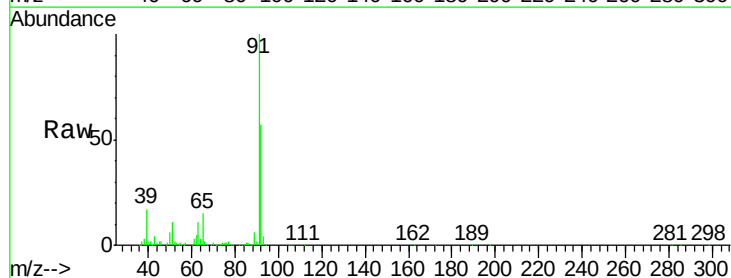
Manual Integrations
APPROVED

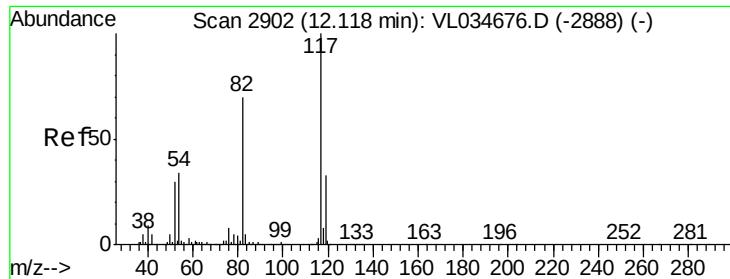
MMDadoda
3/2/2020 1:01:18 PM



#53
Toluene
Concen: 3.263 ppbv
RT: 9.83 min Scan# 2192
Delta R.T. 0.01 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.1	48.5	72.7





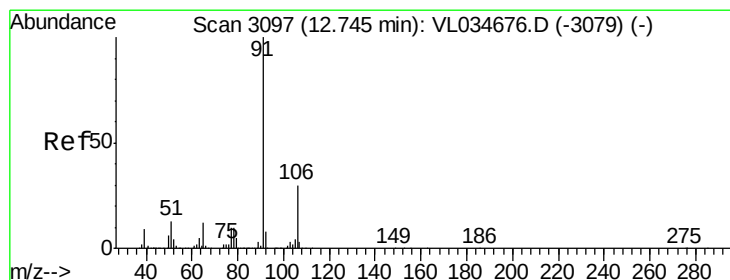
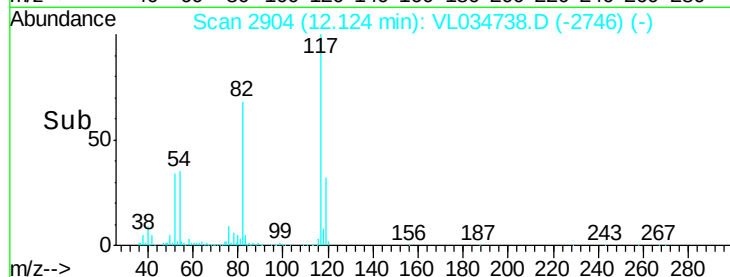
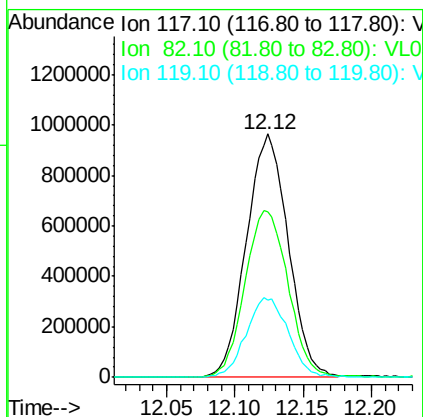
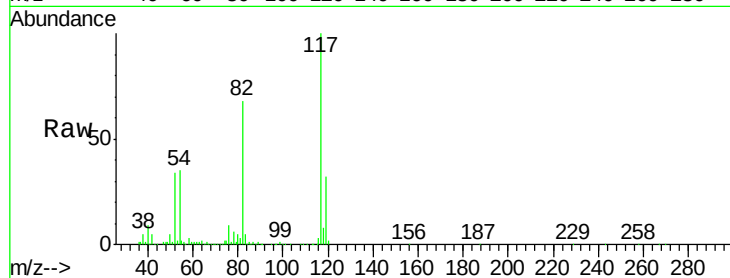
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.01 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion:117 Resp: 2055542
Ion Ratio Lower Upper
117 100
82 70.9 54.1 81.1
119 33.1 27.6 41.4

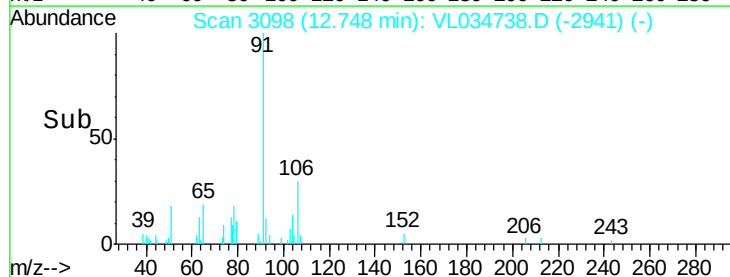
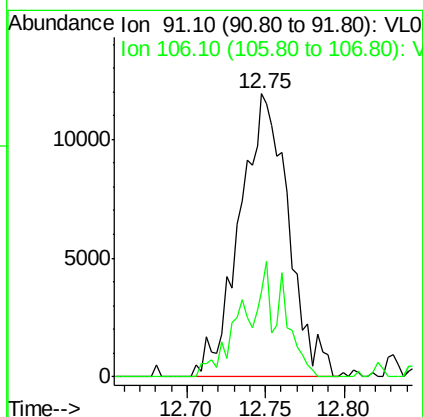
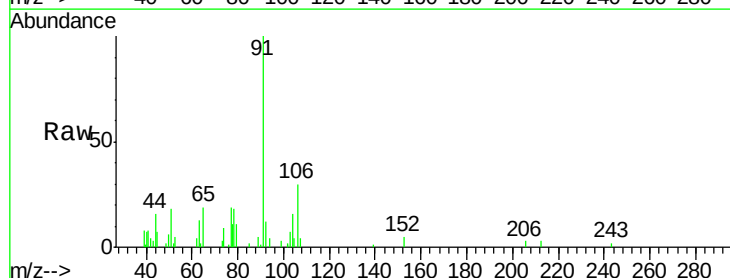
Manual Integrations
APPROVED

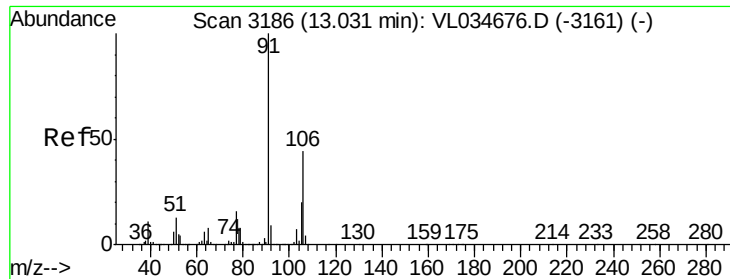
MMDadoda
3/2/2020 1:01:18 PM



#58
Ethyl Benzene
Concen: 0.104 ppbv m
RT: 12.75 min Scan# 3098
Delta R.T. 0.00 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Tgt Ion: 91 Resp: 25805
Ion Ratio Lower Upper
91 100
106 29.9 24.0 36.0





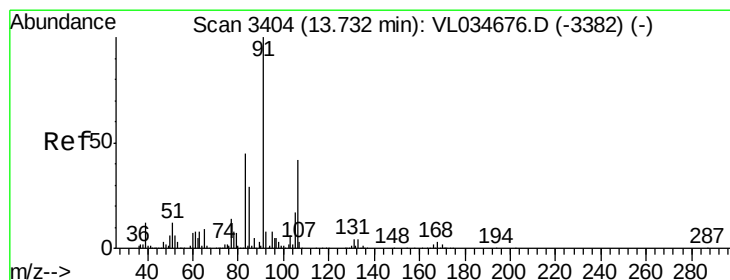
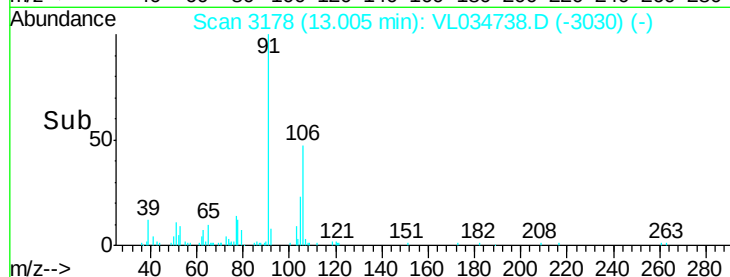
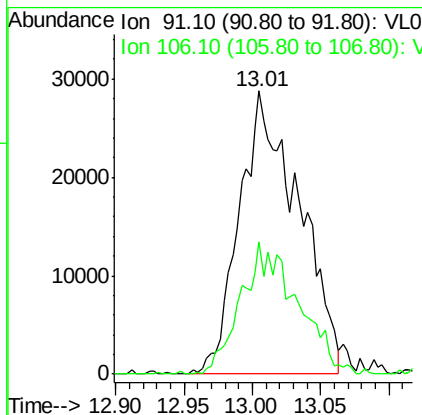
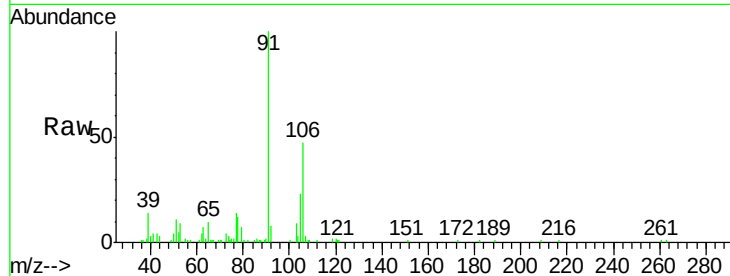
#59
m/p-Xylene
Concen: 0.400 ppbv m
RT: 13.01 min Scan# 3178
Delta R.T. -0.03 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion: 91 Resp: 86850
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#

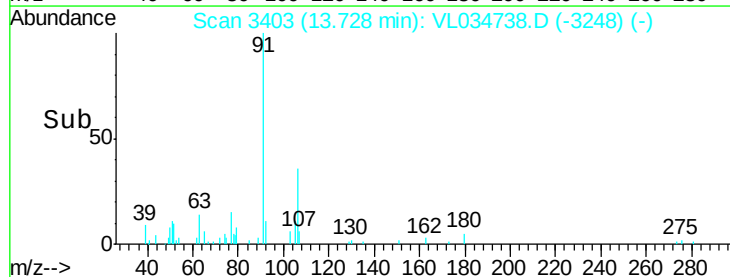
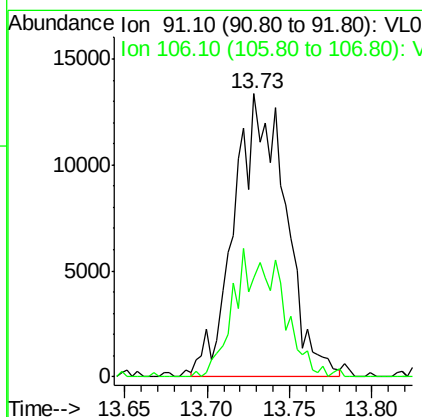
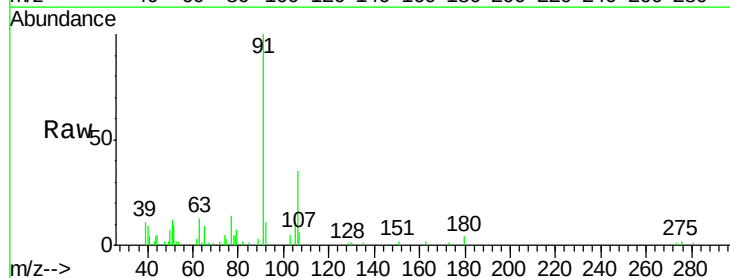
Manual Integrations
APPROVED

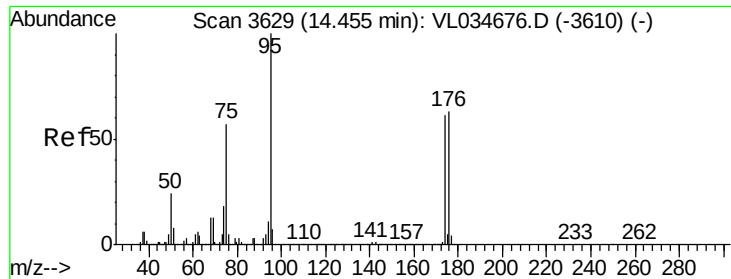
MMDadoda
3/2/2020 1:01:18 PM



#60
o-Xylene
Concen: 0.135 ppbv m
RT: 13.73 min Scan# 3403
Delta R.T. -0.00 min
Lab File: VL034738.D
Acq: 28 Feb 2020 15:46

Tgt Ion: 91 Resp: 28993
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.507 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. 0.01 min
 Lab File: VL034738.D
 Acq: 28 Feb 2020 15:46

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-8-RM-NEXT-TO-COUNSELOR-R

Tot Ion: 95 Resp: 1770883
 Ion Ratio Lower Upper
 95 100
 174 63.4 50.7 76.1
 175 4.5 3.9 5.9

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 1:01:18 PM

