

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\
 Data File : VL034714.D
 Acq On : 27 Feb 2020 18:35
 Operator : SY/AP
 Sample : L1662-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORGE-RM-NEXT-TO-CAFE

Manual Integrations
 APPROVED

MMDadoda
 2/28/2020 12:32:55 PM

Quant Time: Feb 28 02:10:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 2
 QLast Update : Wed Feb 26 06:58:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1057663	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2143513	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2115219	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1800884	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	84953	0.509	ppbv	99
3) Chlorodifluoromethane	2.95	51	27773m	0.243	ppbv	
4) Chloromethane	3.11	50	35240	0.552	ppbv	93
9) Propene	2.99	41	65838m	1.380	ppbv	
11) Trichlorofluoromethane	3.93	101	40129	0.275	ppbv	92
13) Ethanol	3.58	45	2007402	133.181	ppbv	97
15) Acetone	3.83	43	582419	4.832	ppbv	94
19) Isopropyl Alcohol	3.96	45	313155	4.362	ppbv #	94
20) Methylene Chloride	4.33	84	95005	2.120	ppbv #	89
26) Hexane	5.69	57	101024	1.027	ppbv #	47
34) 2-Butanone	5.25	43	24352m	0.180	ppbv	
35) Carbon Tetrachloride	7.03	117	10285m	0.072	ppbv	
36) Benzene	6.90	78	59886	0.323	ppbv #	93
53) Toluene	9.83	91	615597	3.126	ppbv	99
59) m/p-Xylene	13.01	91	86137m	0.386	ppbv	
60) o-Xylene	13.73	91	23849m	0.108	ppbv	

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

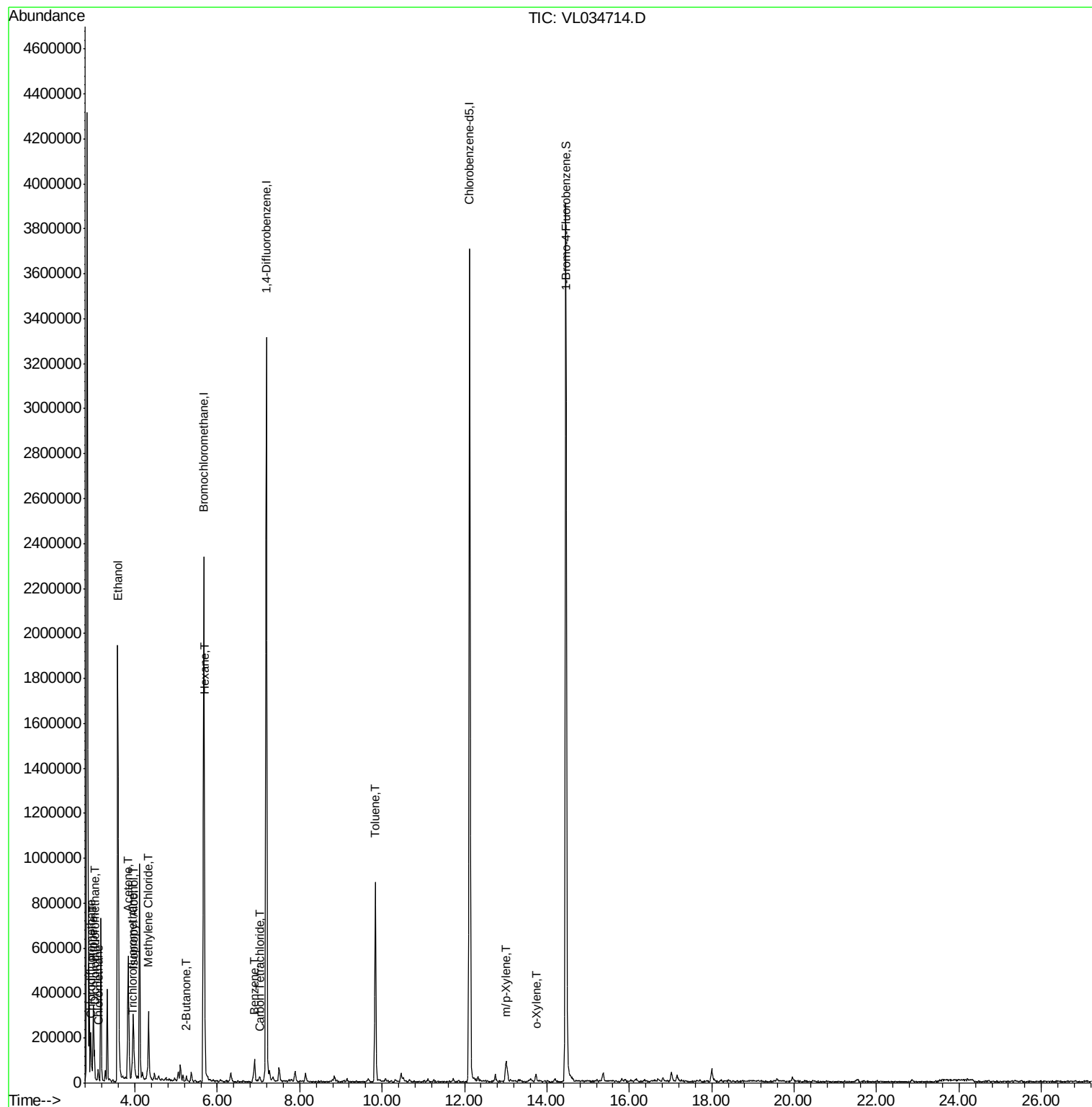
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\
Data File : VL034714.D
Acq On : 27 Feb 2020 18:35
Operator : SY/AP
Sample : L1662-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

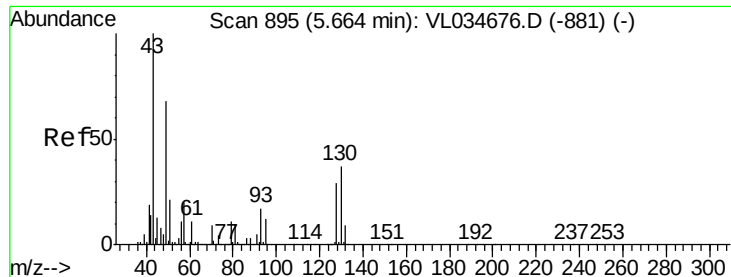
Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORGE-RM-NEXT-TO-CAFE

Manual Integrations
APPROVED

MMDadoda
2/28/2020 12:32:55 PM

Quant Time: Feb 28 02:10:48 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 26 06:58:15 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: VL034714.D

Acq: 27 Feb 2020 18:35

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion: 49 Resp: 1057663

Ion Ratio Lower Upper

49 100

128 42.7 21.6 65.0

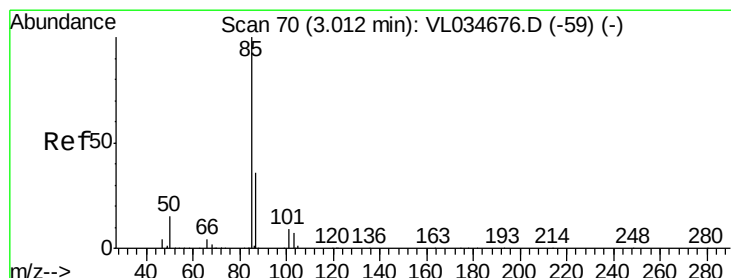
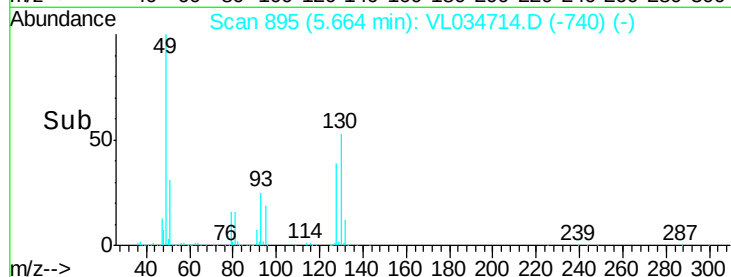
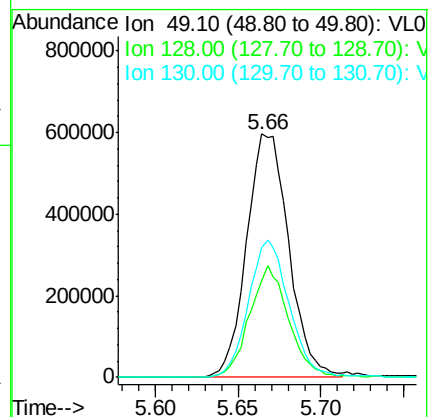
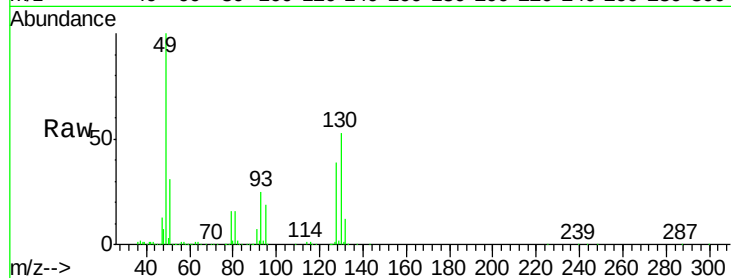
130 54.7 27.7 83.1

Manual Integrations

APPROVED

MMDadoda

2/28/2020 12:32:55 PM



#2

Dichlorodifluoromethane

Concen: 0.509 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL034714.D

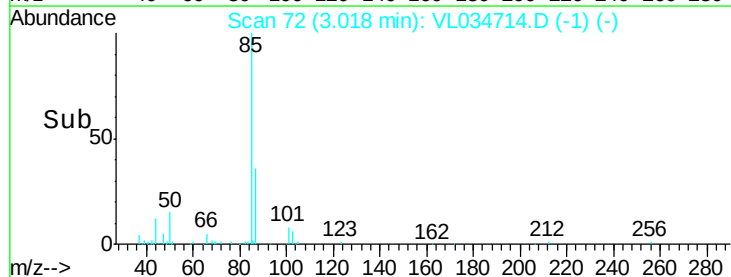
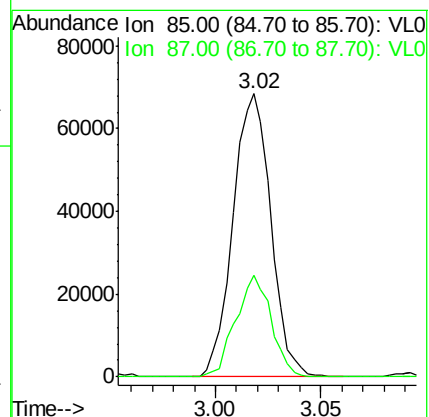
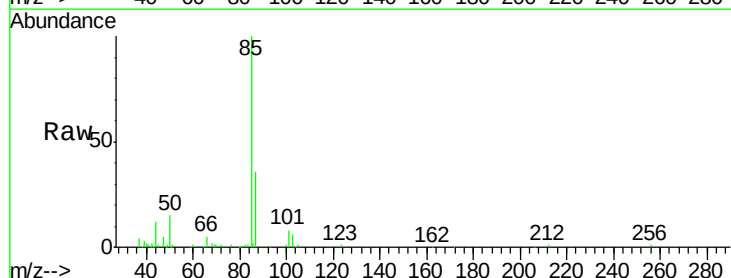
Acq: 27 Feb 2020 18:35

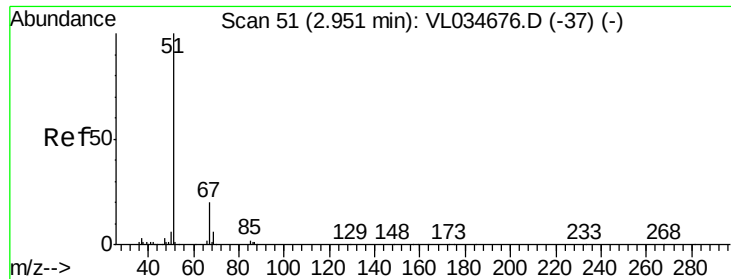
Tgt Ion: 85 Resp: 84953

Ion Ratio Lower Upper

85 100

87 36.0 29.2 43.8





#3

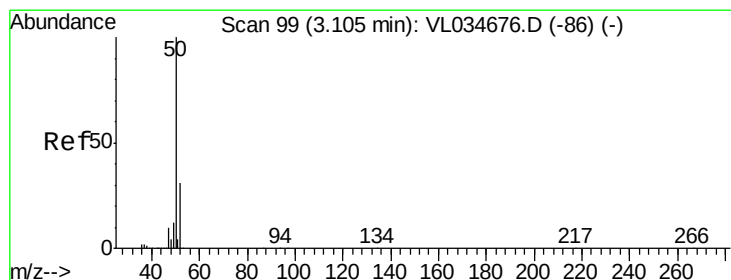
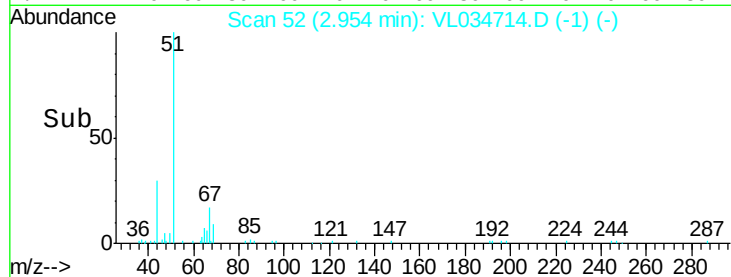
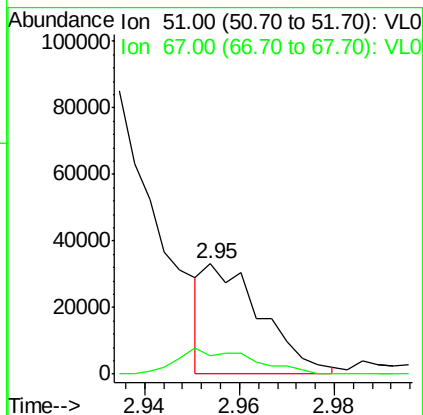
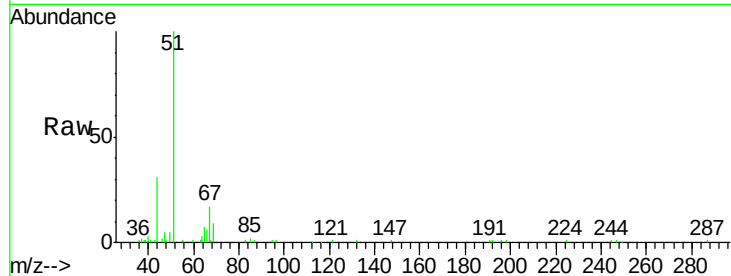
Chlorodifluoromethane
Concen: 0.243 ppbv
RT: 2.95 min Scan# 52
Delta R.T. 0.00 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion	Ratio	Lower	Upper
51	100		
67	30.8	15.5	23.3

Manual Integrations
APPROVED

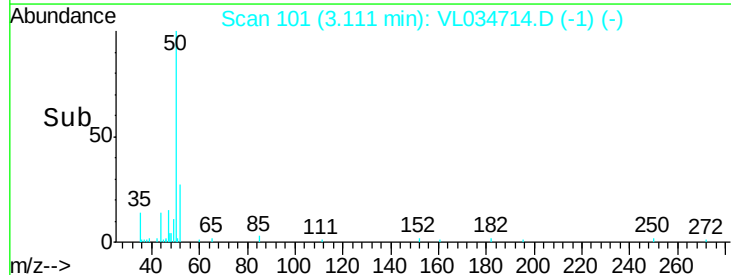
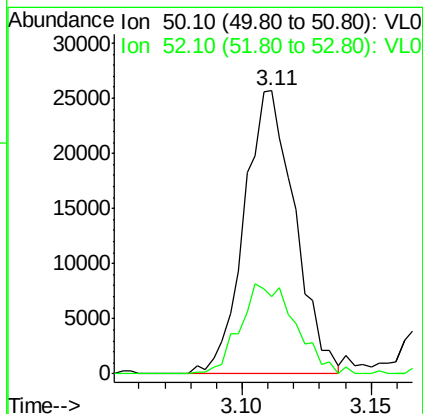
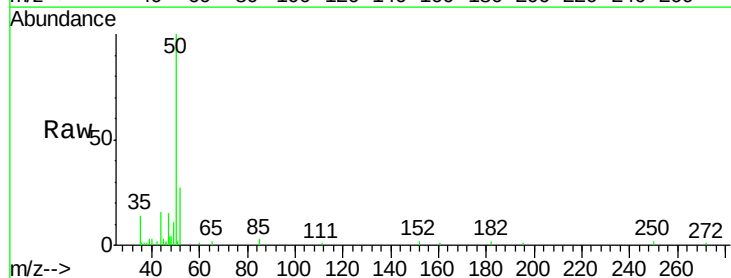
MMDadoda
2/28/2020 12:32:55 PM

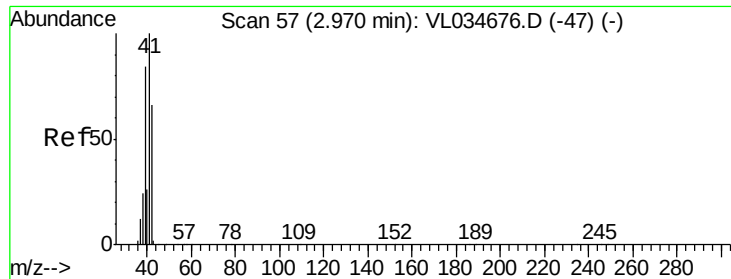


#4

Chloromethane
Concen: 0.552 ppbv
RT: 3.11 min Scan# 101
Delta R.T. 0.01 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Tgt Ion	Ratio	Lower	Upper
50	100		
52	27.2	25.0	37.4





#9

Propene

Concen: 1.380 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. 0.02 min

Lab File: VL034714.D

Acq: 27 Feb 2020 18:35

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion: 41 Resp: 65838

Ion Ratio Lower Upper

41 100

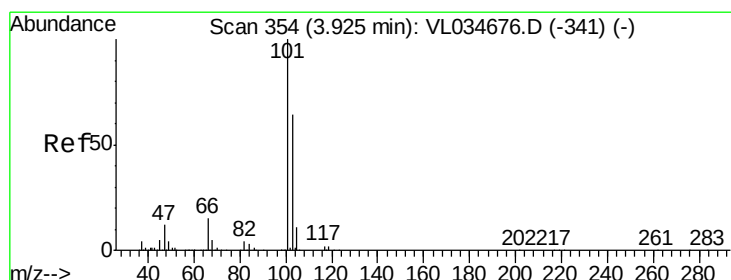
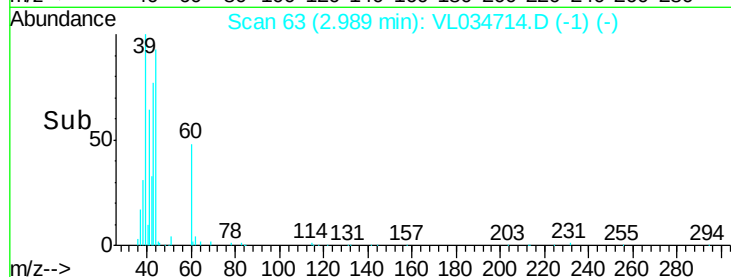
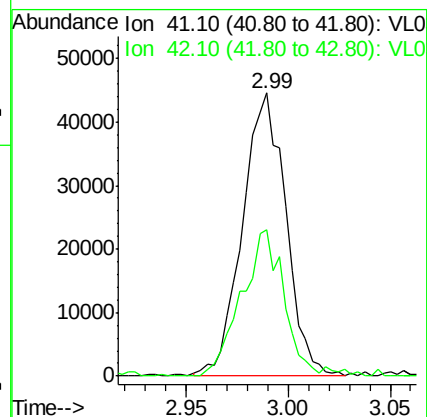
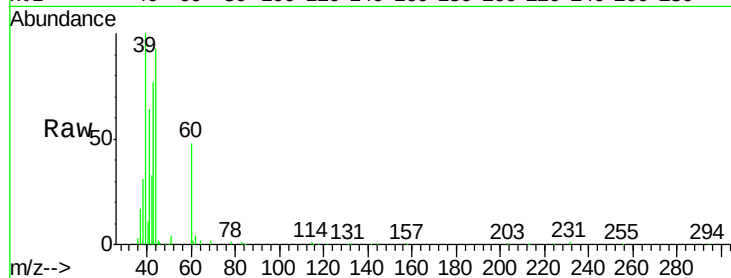
42 185.4 54.9 82.3#

Manual Integrations

APPROVED

MMDadoda

2/28/2020 12:32:55 PM



#11

Trichlorofluoromethane

Concen: 0.275 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.00 min

Lab File: VL034714.D

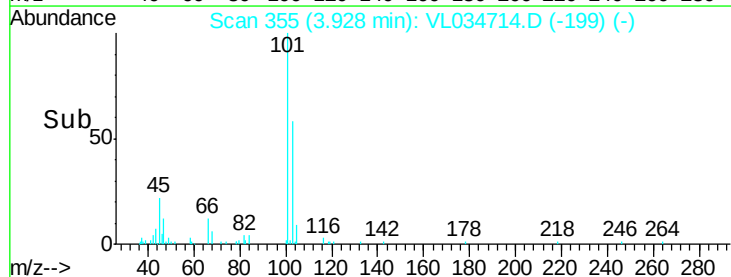
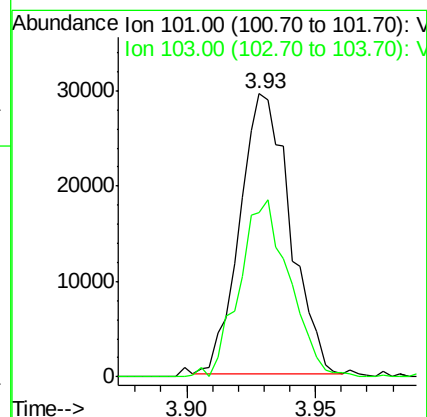
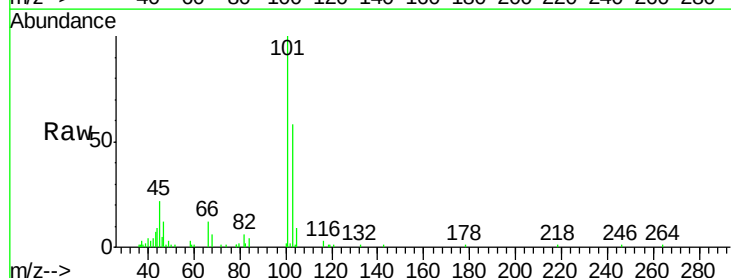
Acq: 27 Feb 2020 18:35

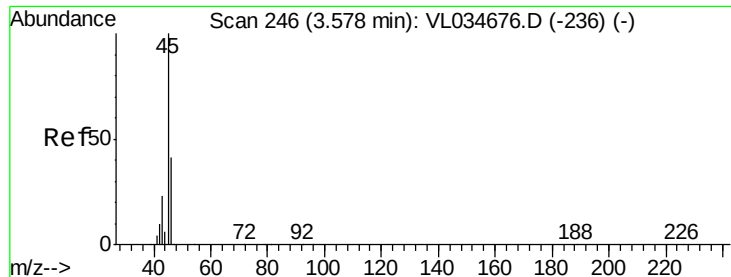
Tgt Ion: 101 Resp: 40129

Ion Ratio Lower Upper

101 100

103 57.9 51.2 76.8





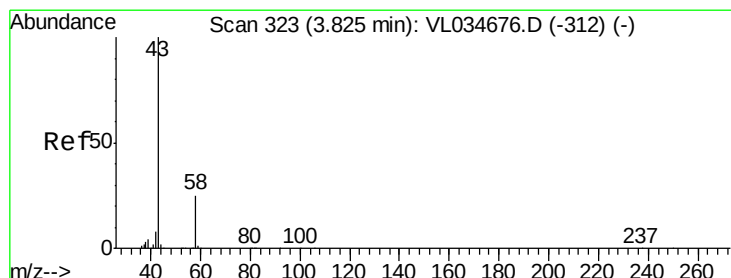
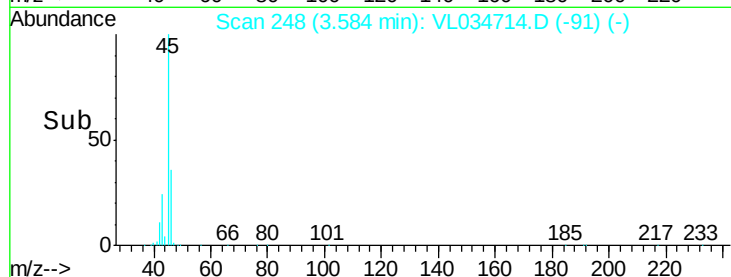
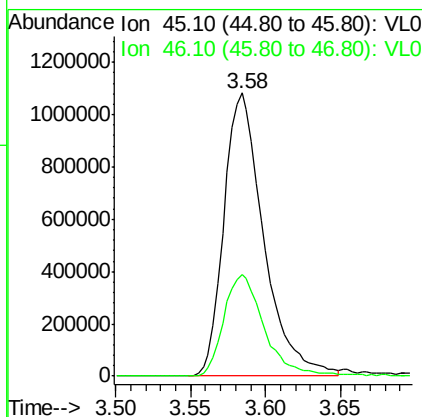
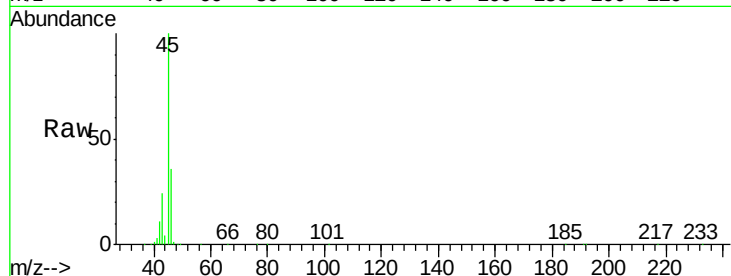
#13
Ethanol
Concen: 133.181 ppbv
RT: 3.58 min Scan# 248
Delta R.T. 0.01 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion: 45 Resp: 2007402
Ion Ratio Lower Upper
45 100
46 36.8 15.4 61.4

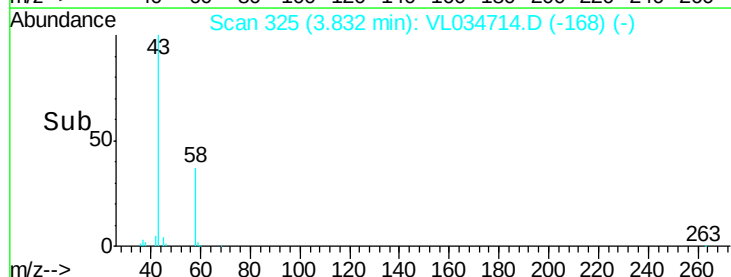
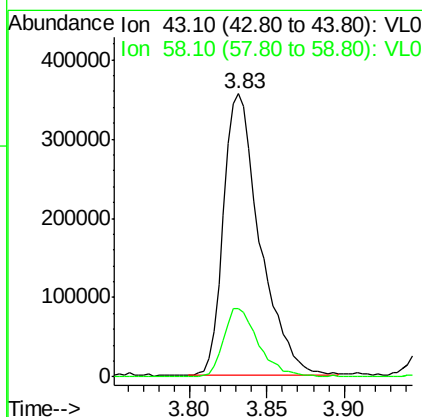
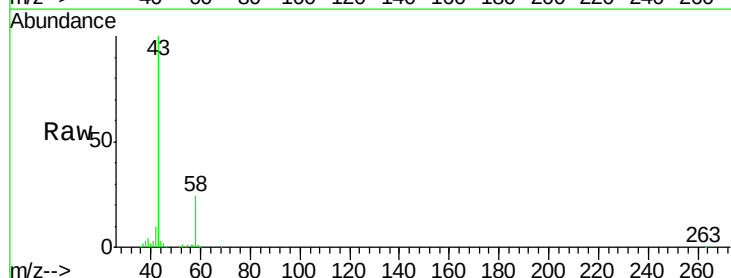
Manual Integrations
APPROVED

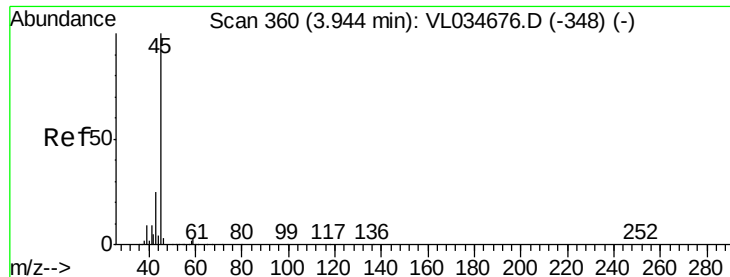
MMDadoda
2/28/2020 12:32:55 PM



#15
Acetone
Concen: 4.832 ppbv
RT: 3.83 min Scan# 325
Delta R.T. 0.01 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Tgt Ion: 43 Resp: 582419
Ion Ratio Lower Upper
43 100
58 23.5 21.4 32.0





#19

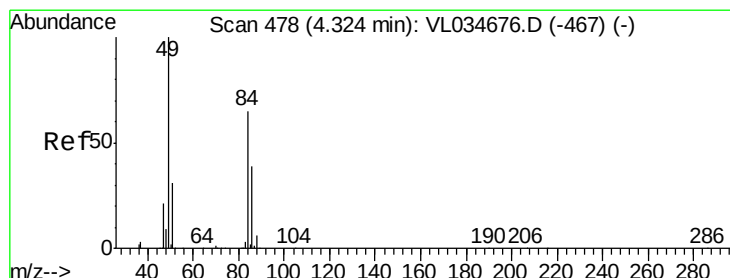
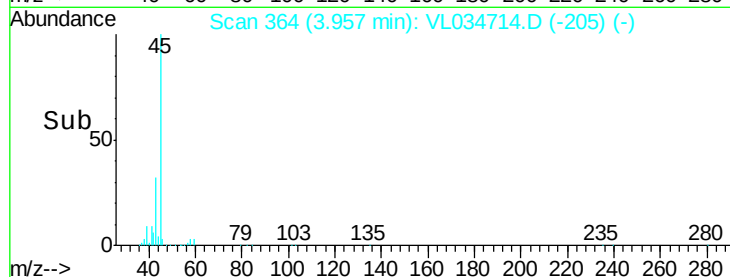
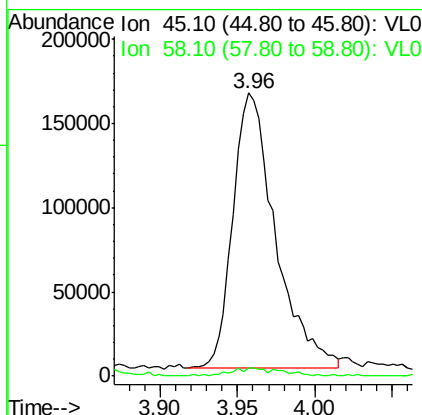
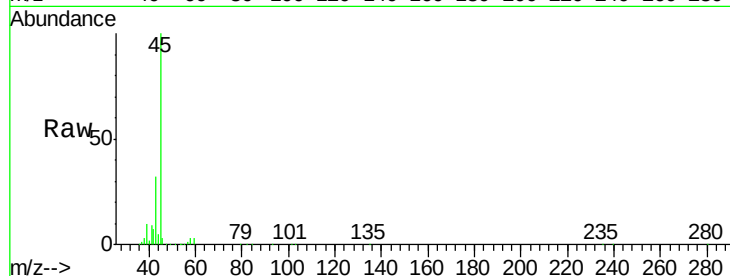
Isopropyl Alcohol
 Concen: 4.362 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VL034714.D
 Acq: 27 Feb 2020 18:35

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion	Ratio	Lower	Upper
45	100		
58	4.2	1.8	2.6#

Manual Integrations
 APPROVED

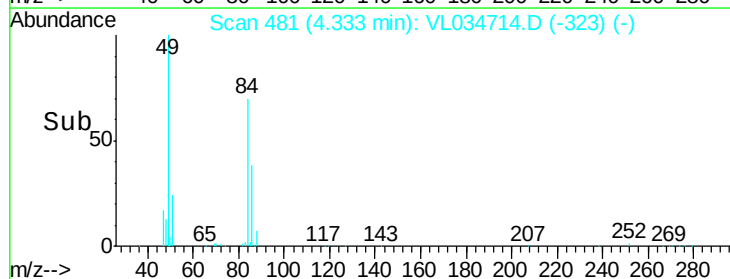
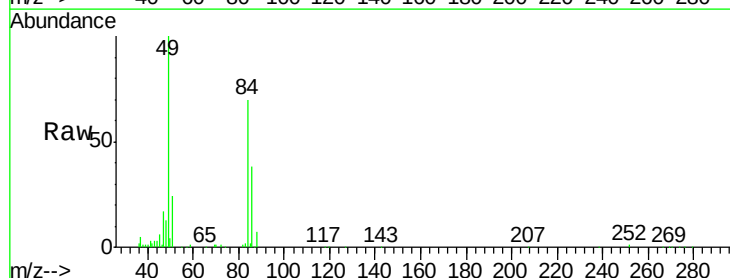
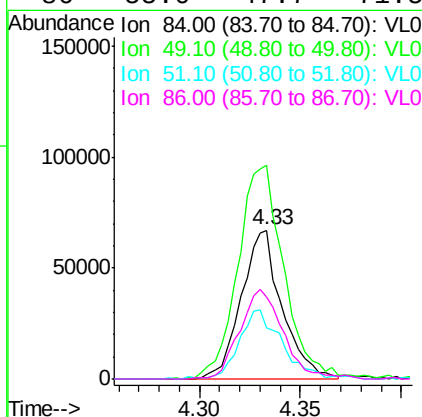
MMDadoda
 2/28/2020 12:32:55 PM

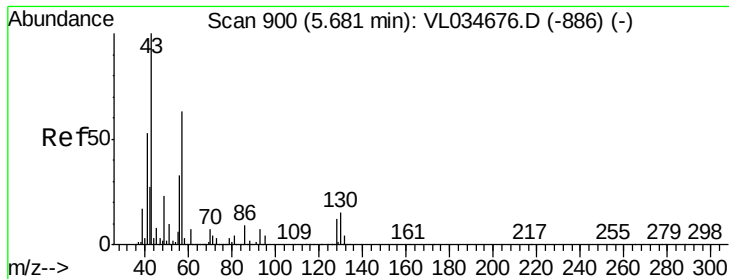


#20

Methylene Chloride
 Concen: 2.120 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. 0.01 min
 Lab File: VL034714.D
 Acq: 27 Feb 2020 18:35

Tgt Ion	Ratio	Lower	Upper
84	100		
49	142.6	122.8	184.2
51	32.9	38.6	58.0#
86	55.0	47.7	71.5





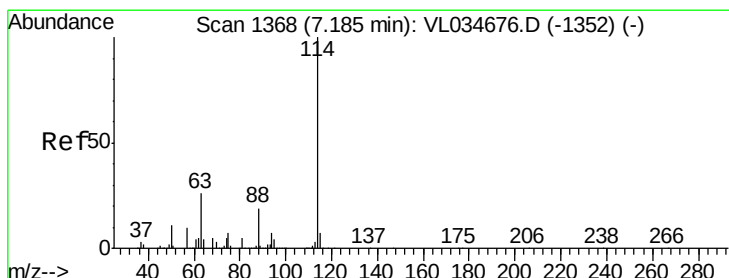
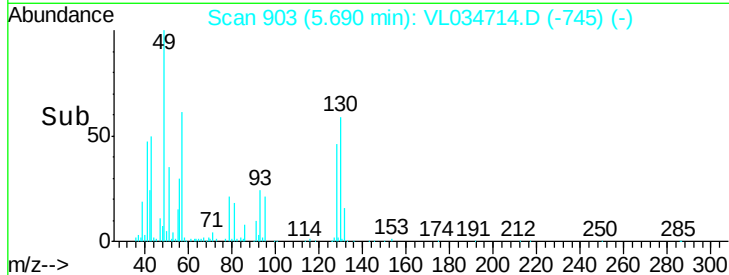
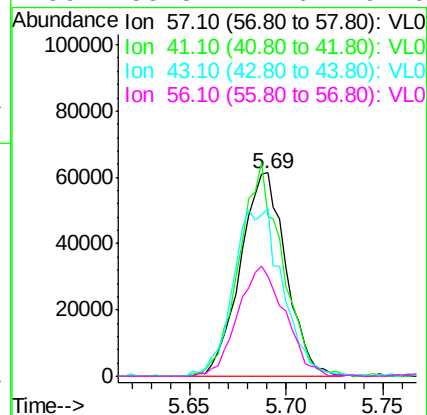
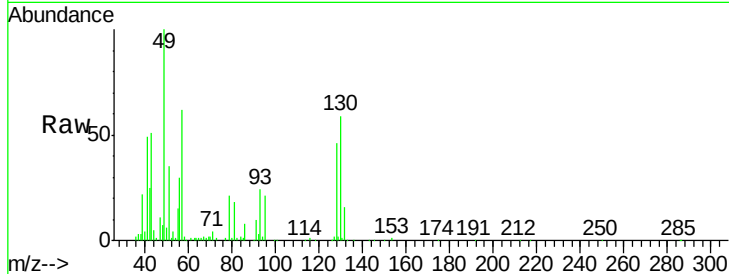
#26
Hexane
Concen: 1.027 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion	57	Resp	101024
Ion	Ratio	Lower	Upper
57	100		
41	99.3	70.3	105.5
43	89.8	177.0	265.4#
56	55.8	42.6	64.0

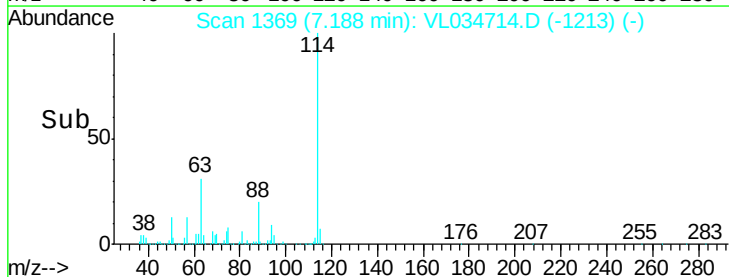
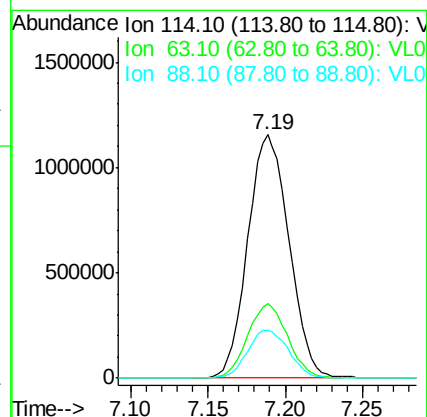
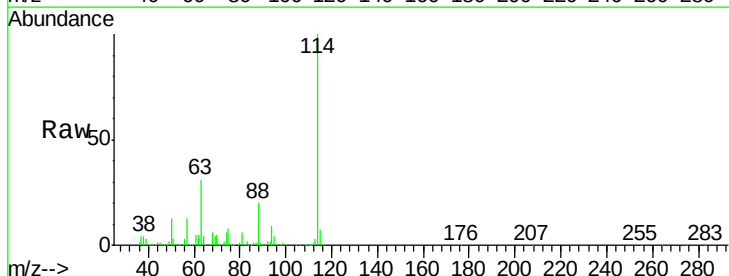
Manual Integrations
APPROVED

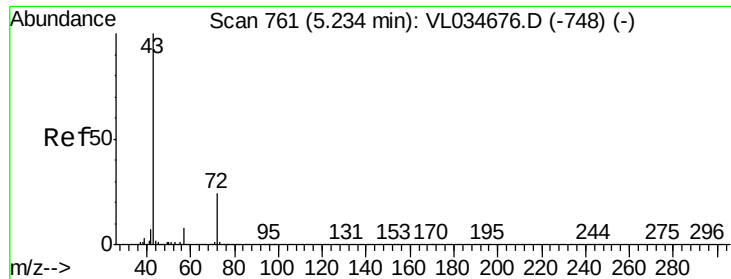
MMDadoda
2/28/2020 12:32:55 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Tgt Ion	114	Resp	2143513
Ion	Ratio	Lower	Upper
114	100		
63	29.6	22.9	34.3
88	19.6	15.8	23.6





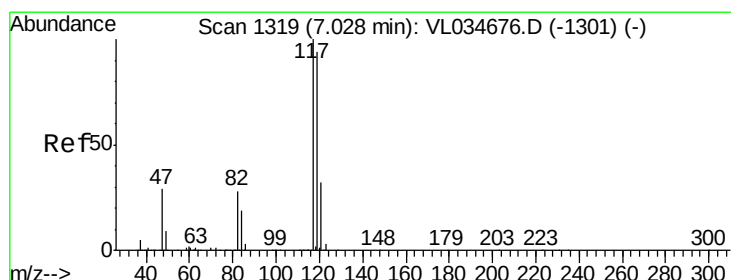
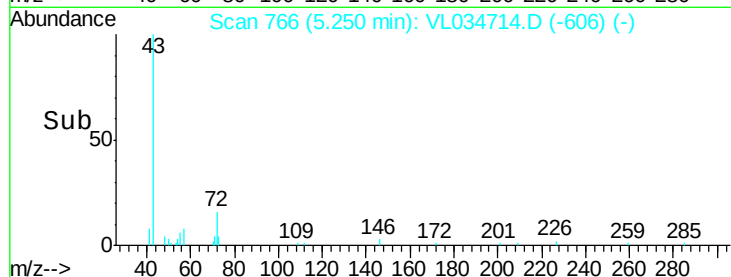
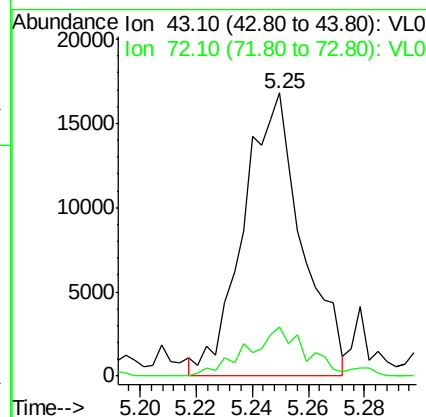
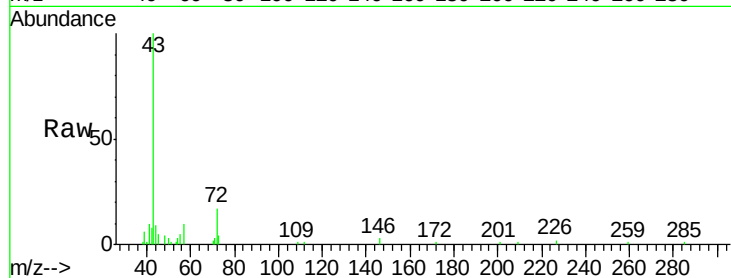
#34
2-Butanone
Concen: 0.180 ppbv m
RT: 5.25 min Scan# 766
Delta R.T. 0.02 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#

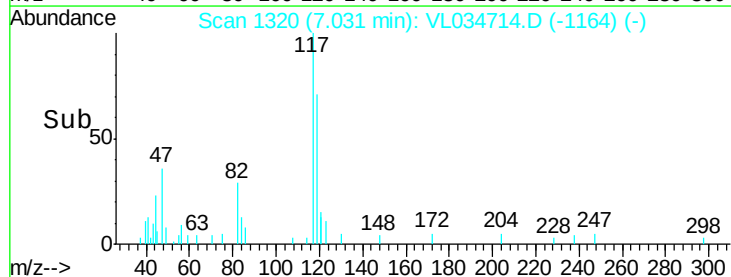
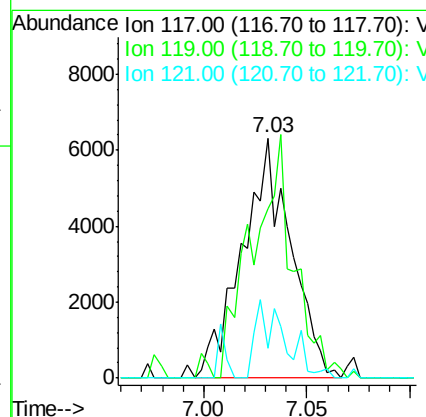
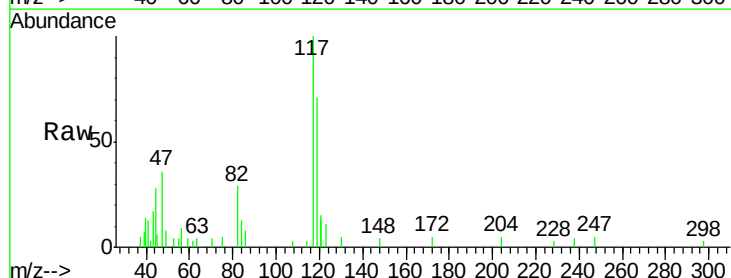
Manual Integrations
APPROVED

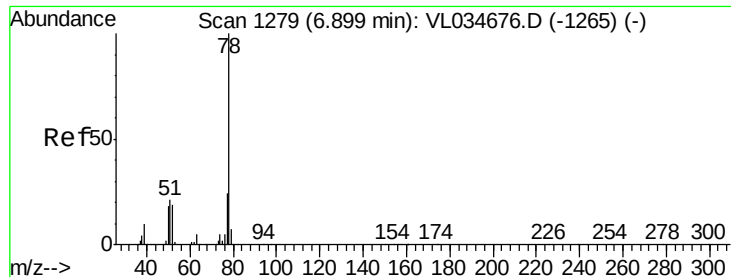
MMDadoda
2/28/2020 12:32:55 PM



#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 7.03 min Scan# 1320
Delta R.T. 0.00 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	70.8	75.5	113.3#
121	12.6	25.4	38.0#





#36

Benzene

Concen: 0.323 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.00 min

Lab File: VL034714.D

Acq: 27 Feb 2020 18:35

Instrument :

MSVOA_L

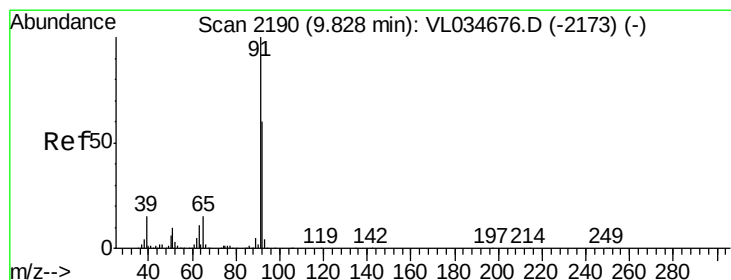
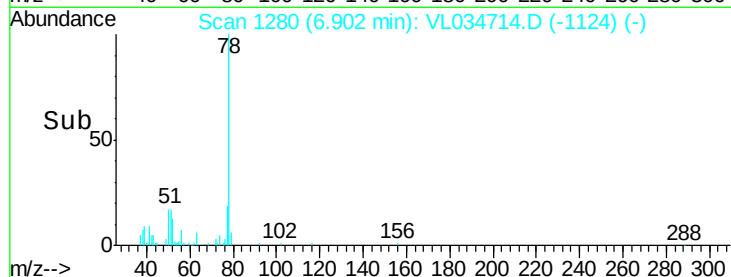
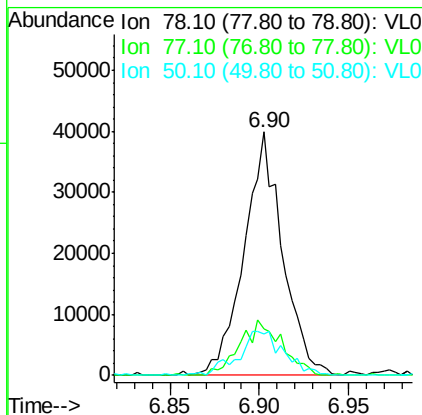
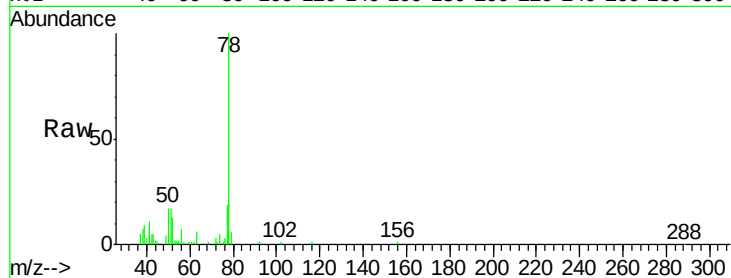
ClientSampleId :

IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.0	19.5	29.3#
50	17.0	14.6	21.8

Manual Integrations
APPROVED

MMDadoda
2/28/2020 12:32:55 PM



#53

Toluene

Concen: 3.126 ppbv

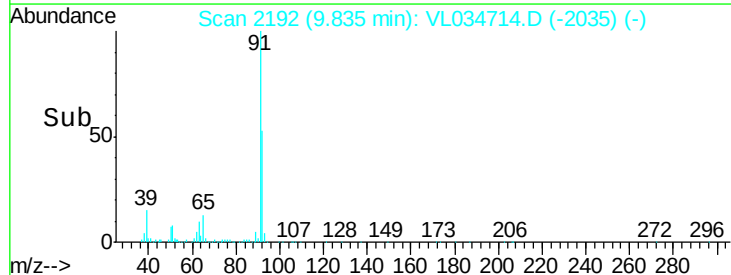
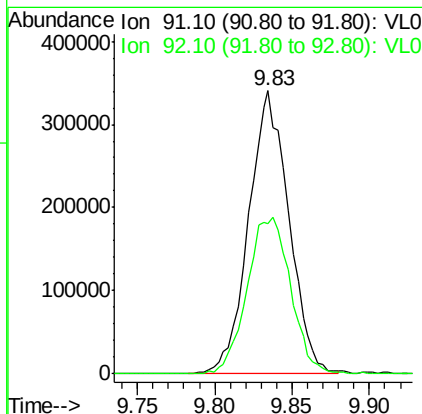
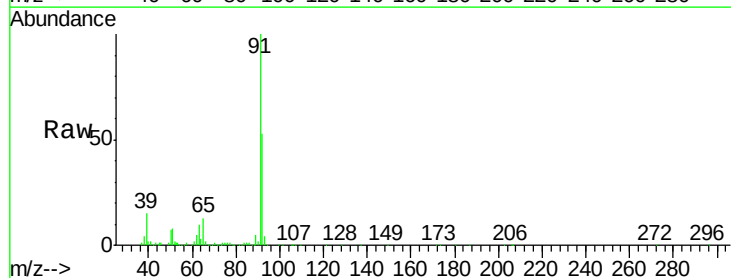
RT: 9.83 min Scan# 2192

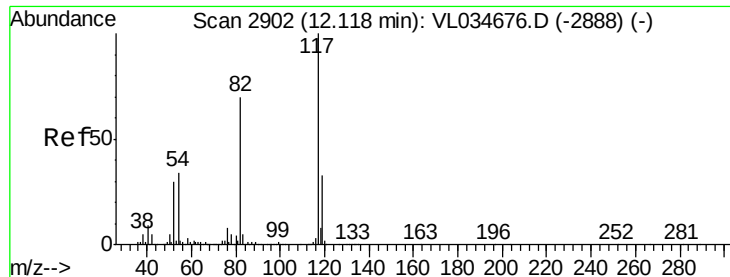
Delta R.T. 0.01 min

Lab File: VL034714.D

Acq: 27 Feb 2020 18:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.5	72.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.00 min

Lab File: VL034714.D

Acq: 27 Feb 2020 18:35

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion: 117 Resp: 2115219

Ion Ratio Lower Upper

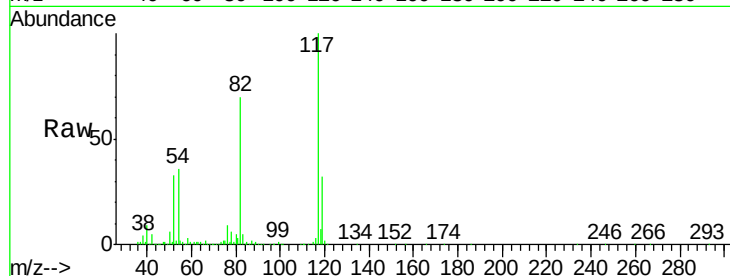
117 100

82 71.2 54.1 81.1

119 32.9 27.6 41.4

Manual Integrations
APPROVED

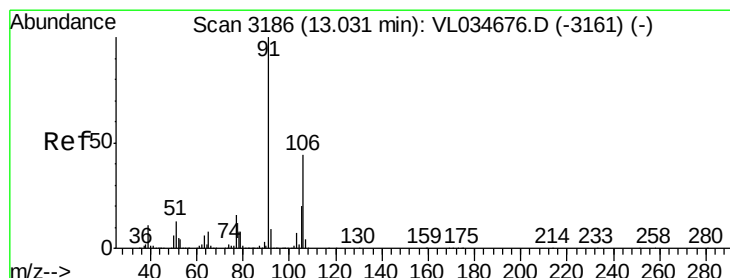
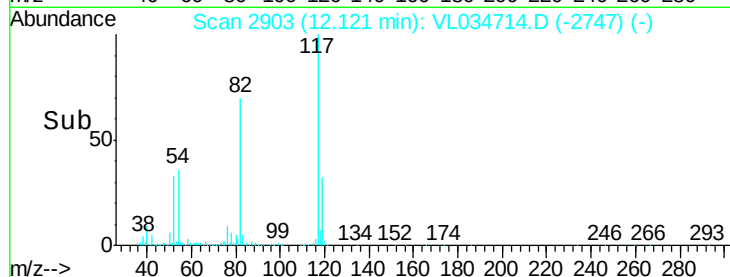
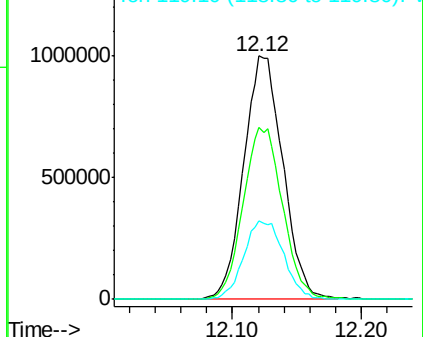
MMDadoda
2/28/2020 12:32:55 PM



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



#59

m/p-Xylene

Concen: 0.386 ppbv m

RT: 13.01 min Scan# 3180

Delta R.T. -0.02 min

Lab File: VL034714.D

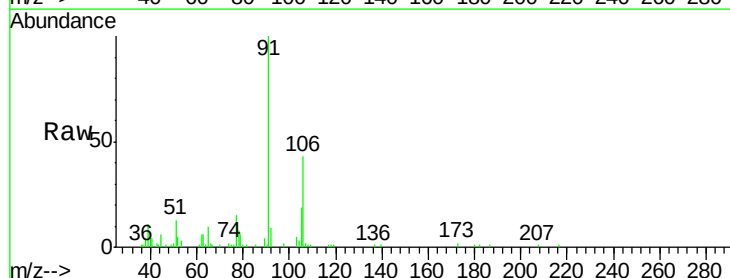
Acq: 27 Feb 2020 18:35

Tgt Ion: 91 Resp: 86137

Ion Ratio Lower Upper

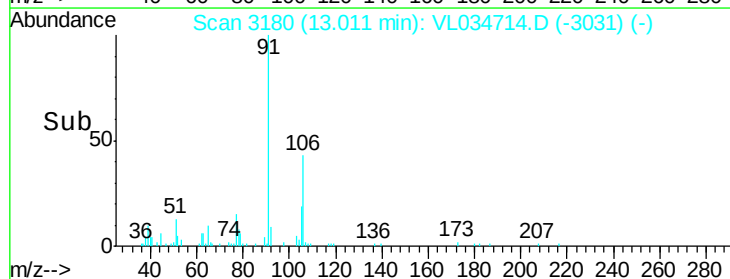
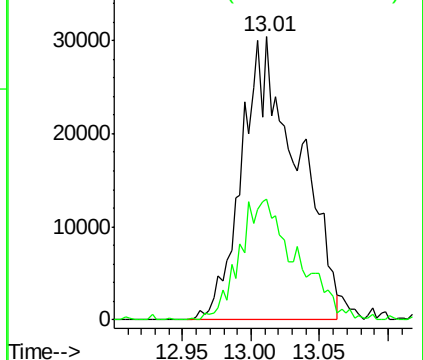
91 100

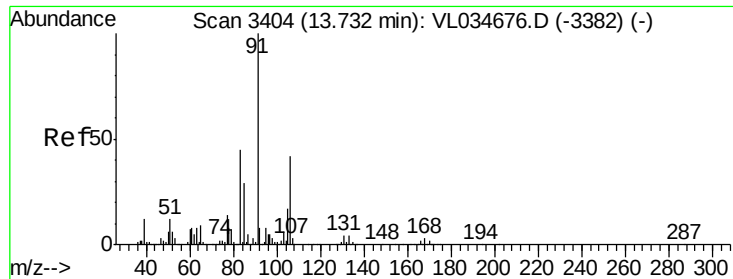
106 0.0 35.6 53.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





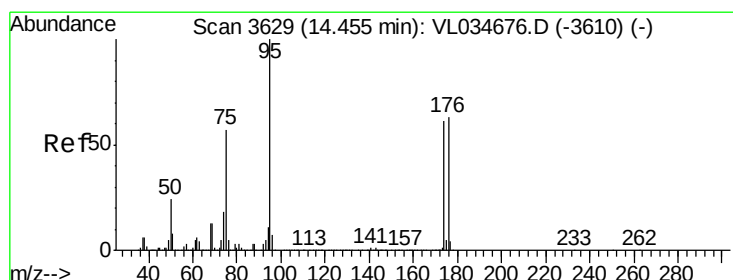
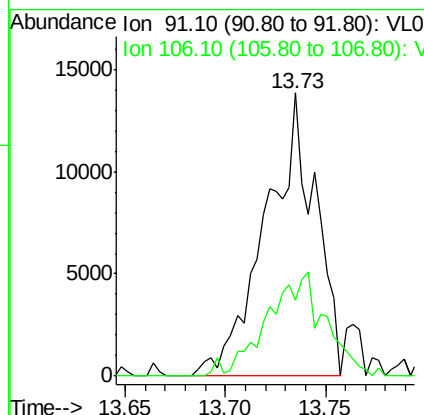
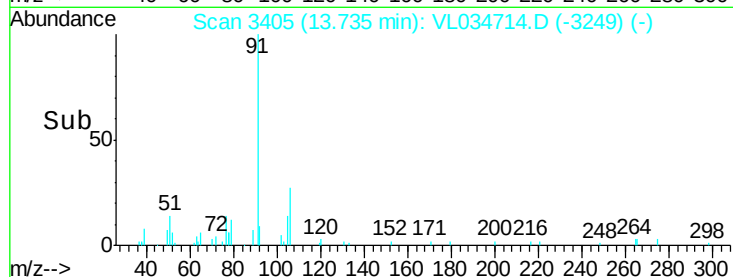
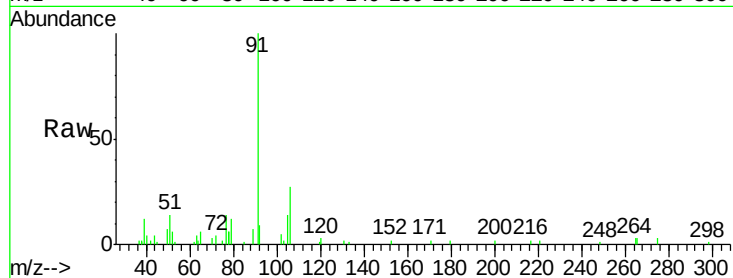
#60
o-Xylene
Concen: 0.108 ppbv m
RT: 13.73 min Scan# 3405
Delta R.T. 0.00 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion: 91 Resp: 23849
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#

Manual Integrations
APPROVED

MMDadoda
2/28/2020 12:32:55 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.383 ppbv
RT: 14.46 min Scan# 3630
Delta R.T. 0.00 min
Lab File: VL034714.D
Acq: 27 Feb 2020 18:35

Tgt Ion: 95 Resp: 1800884
Ion Ratio Lower Upper
95 100
174 63.1 50.7 76.1
175 4.6 3.9 5.9

