

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\  
 Data File : VL034715.D  
 Acq On : 27 Feb 2020 19:13  
 Operator : SY/AP  
 Sample : L1662-04DL 10X  
 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 12:32:58 PM

Quant Time: Feb 28 02:43:13 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   | 1055076  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2134048  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2123920  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 1821775  | 10.46    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.60% |

| Target Compounds       | R.T. | QIon | Response | Conc   | Units | Ovalue |
|------------------------|------|------|----------|--------|-------|--------|
| 9) Propene             | 2.99 | 41   | 9756m    | 0.205  | ppbv  |        |
| 13) Ethanol            | 3.58 | 45   | 195175   | 12.981 | ppbv  | 98     |
| 15) Acetone            | 3.84 | 43   | 65593    | 0.546  | ppbv  | 97     |
| 19) Isopropyl Alcohol  | 3.97 | 45   | 30857m   | 0.431  | ppbv  |        |
| 20) Methylene Chloride | 4.33 | 84   | 17715m   | 0.396  | ppbv  |        |
| 26) Hexane             | 5.69 | 57   | 10222m   | 0.104  | ppbv  |        |
| 53) Toluene            | 9.84 | 91   | 30201m   | 0.154  | ppbv  |        |

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

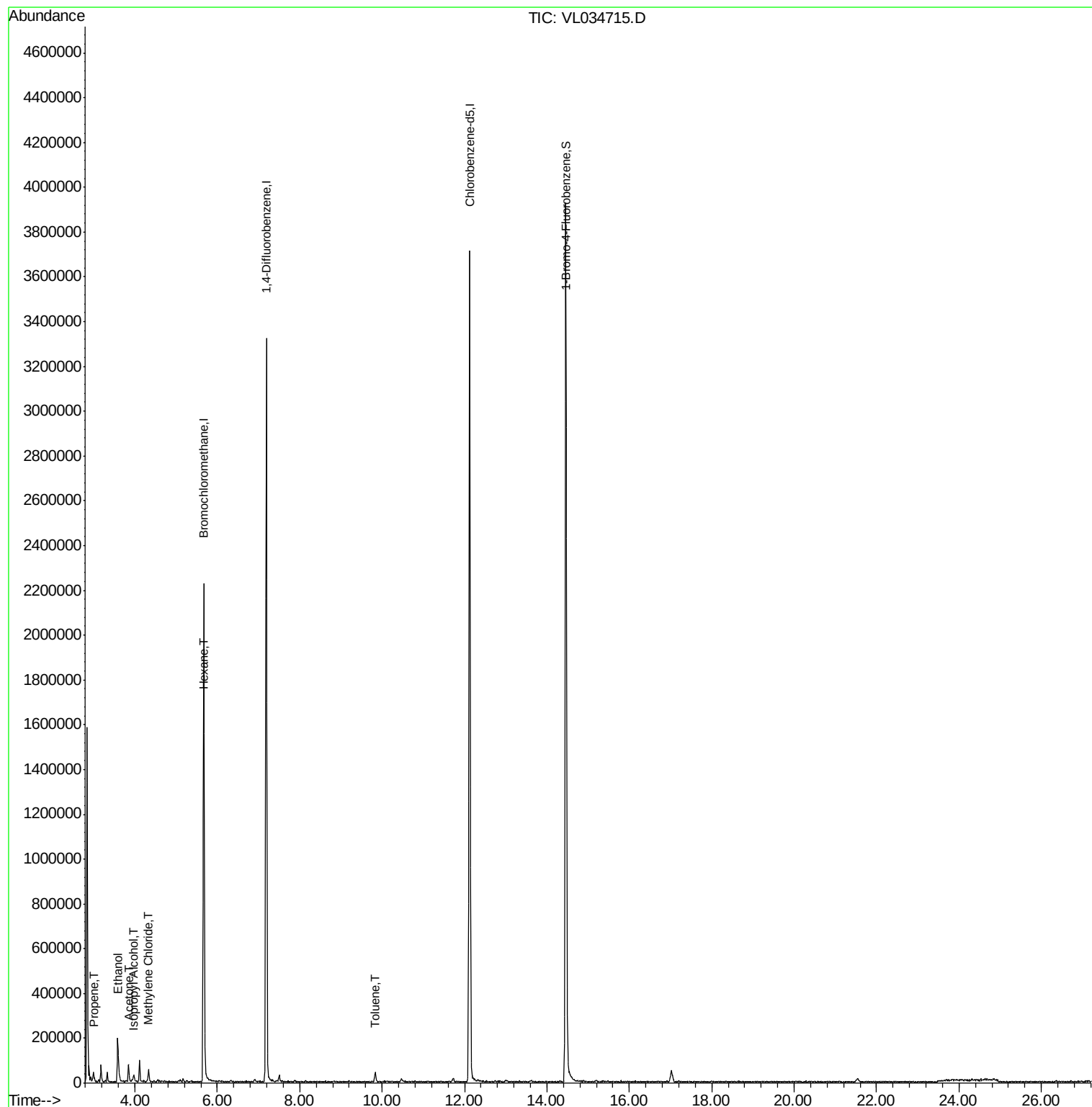
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022720\  
Data File : VL034715.D  
Acq On : 27 Feb 2020 19:13  
Operator : SY/AP  
Sample : L1662-04DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

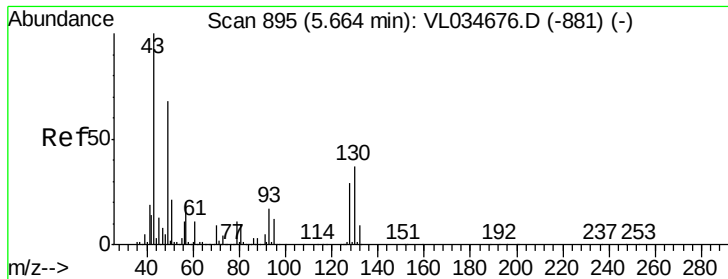
Instrument :  
MSVOA\_L  
ClientSampleId :  
IAS-4-STORGE-RM-NEXT-TO-CAFE

Manual Integrations  
APPROVED

MMDadoda  
2/28/2020 12:32:58 PM

Quant Time: Feb 28 02:43:13 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed 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: VL034715.D

Acq: 27 Feb 2020 19:13

Instrument :

MSVOA\_L

ClientSampleId :

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

Tot Ion: 49 Resp: 1055076

Ion Ratio Lower Upper

49 100

128 44.1 21.6 65.0

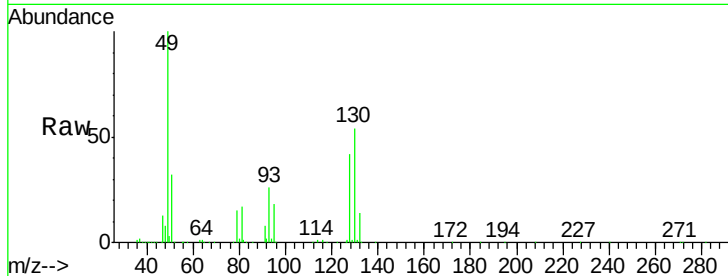
130 56.0 27.7 83.1

Manual Integrations

APPROVED

MMDadoda

2/28/2020 12:32:58 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

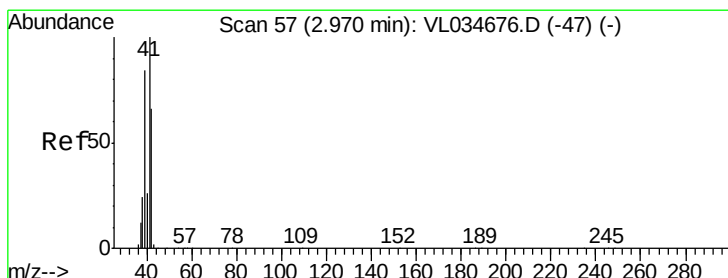
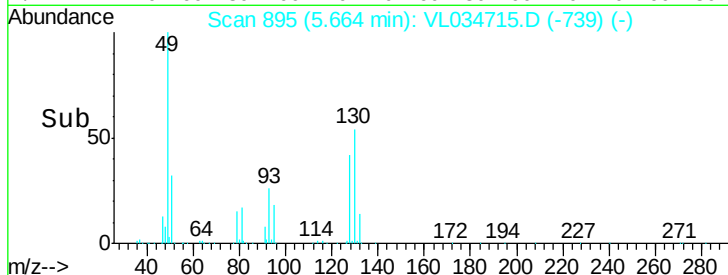
600000

400000

200000

0

Time-->



#9

Propene

Concen: 0.205 ppbv m

RT: 2.99 min Scan# 62

Delta R.T. 0.02 min

Lab File: VL034715.D

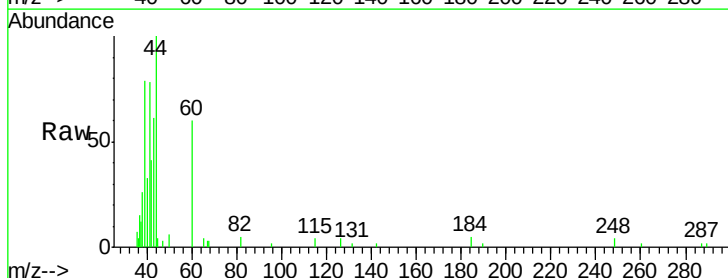
Acq: 27 Feb 2020 19:13

Tgt Ion: 41 Resp: 9756

Ion Ratio Lower Upper

41 100

42 63.4 54.9 82.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.99

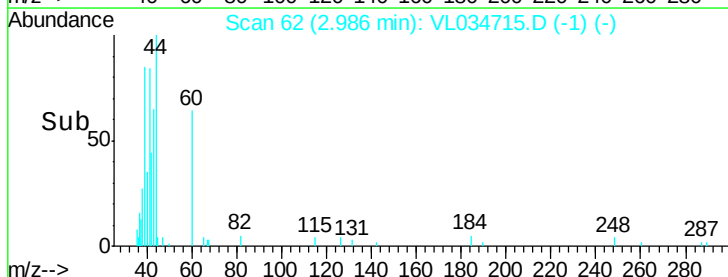
6000

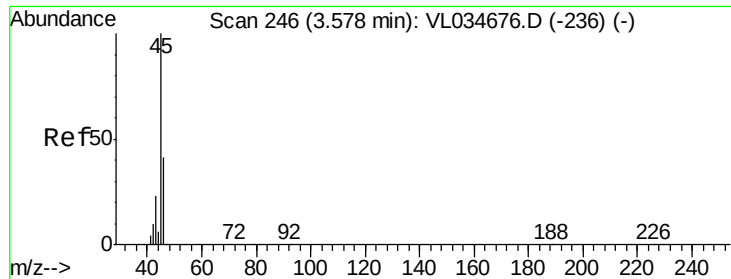
4000

2000

0

Time-->





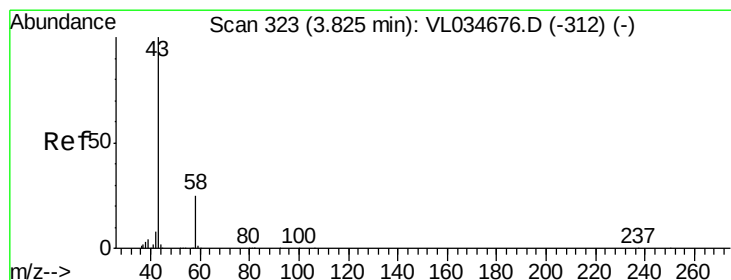
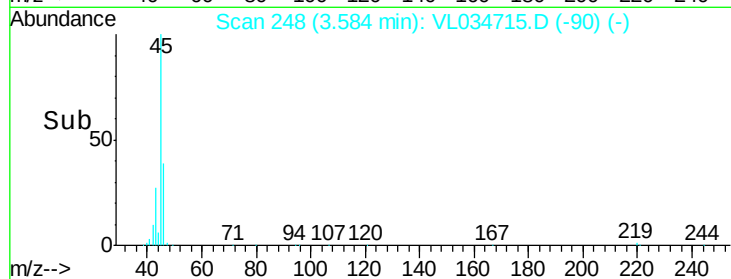
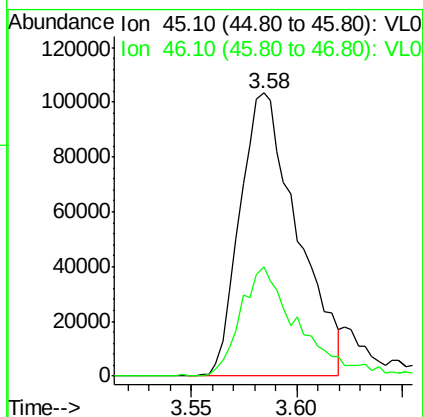
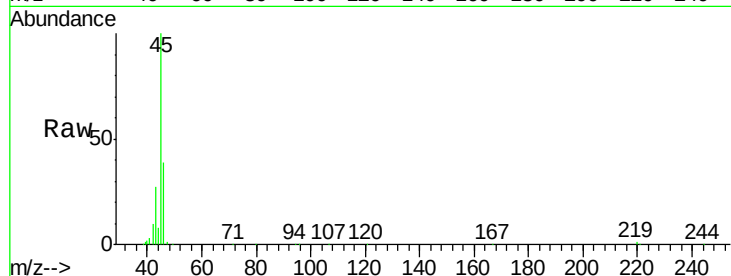
#13  
Ethanol  
Concen: 12.981 ppbv  
RT: 3.58 min Scan# 248  
Delta R.T. 0.01 min  
Lab File: VL034715.D  
Acq: 27 Feb 2020 19:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
IAS-4-STORGE-RM-NEXT-TO-CAFE

| Tot Ion | 45  | 46   | Ratio | Lower | Upper |
|---------|-----|------|-------|-------|-------|
| 195175  | 100 | 39.4 |       | 15.4  | 61.4  |

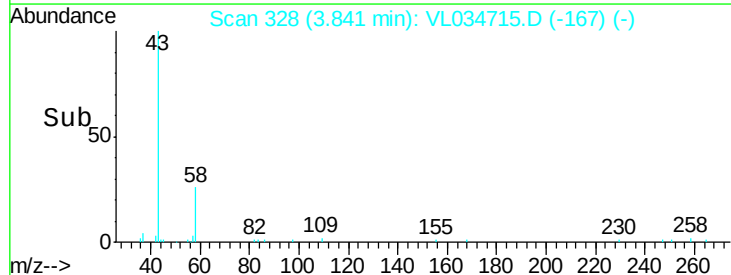
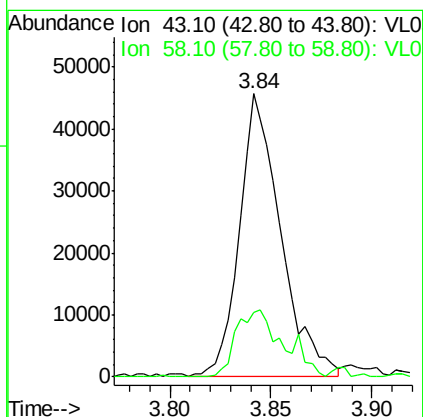
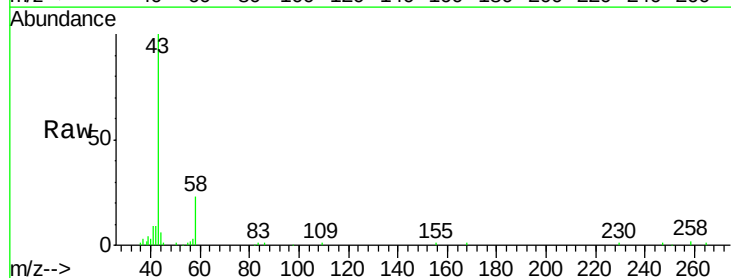
Manual Integrations  
APPROVED

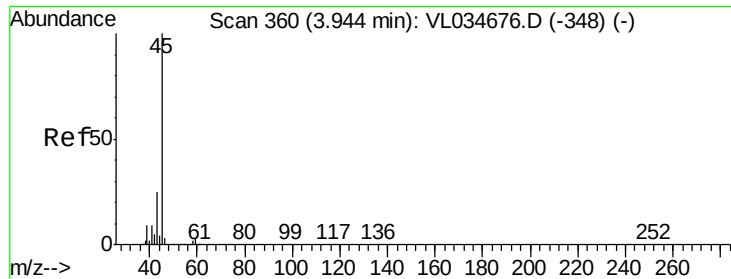
MMDadoda  
2/28/2020 12:32:58 PM



#15  
Acetone  
Concen: 0.546 ppbv  
RT: 3.84 min Scan# 328  
Delta R.T. 0.02 min  
Lab File: VL034715.D  
Acq: 27 Feb 2020 19:13

| Tgt Ion | 43  | 58   | Ratio | Lower | Upper |
|---------|-----|------|-------|-------|-------|
| 65593   | 100 | 28.2 |       | 21.4  | 32.0  |





#19

Isopropyl Alcohol

Concen: 0.431 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. 0.03 min

Lab File: VL034715.D

Acq: 27 Feb 2020 19:13

Instrument :

MSVOA\_L

ClientSampleId :

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

Tot Ion: 45 Resp: 30857

Ion Ratio Lower Upper

45 100

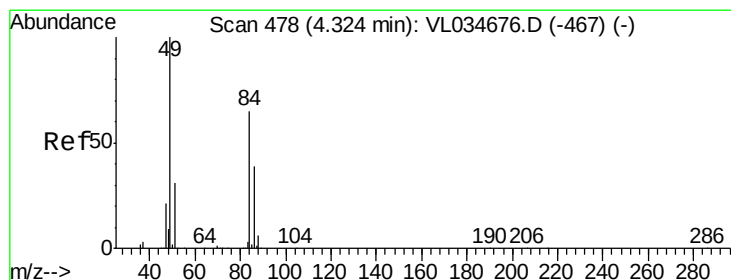
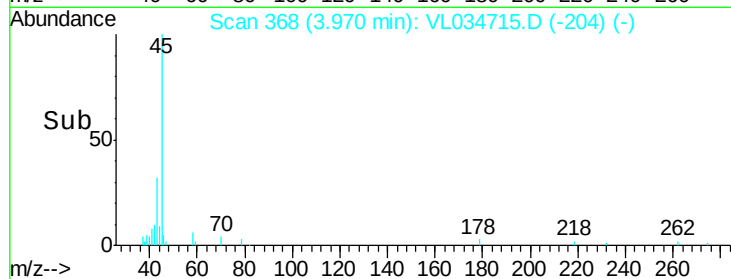
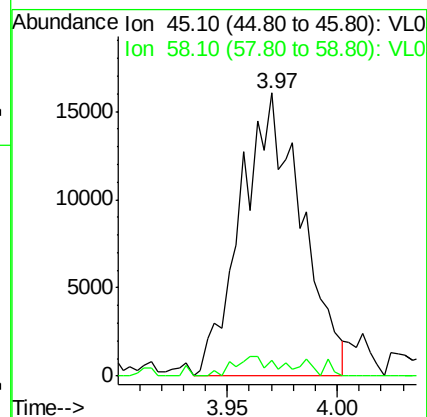
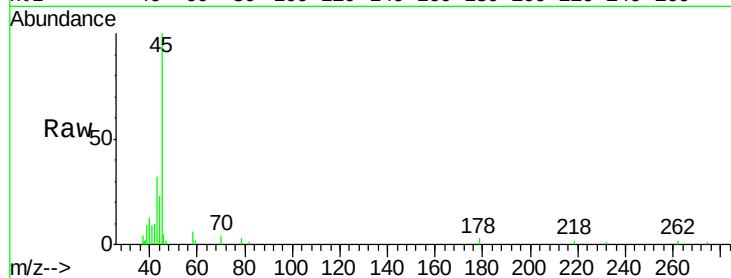
58 6.7 1.8 2.6#

Manual Integrations

APPROVED

MMDadoda

2/28/2020 12:32:58 PM



#20

Methylene Chloride

Concen: 0.396 ppbv m

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL034715.D

Acq: 27 Feb 2020 19:13

Tgt Ion: 84 Resp: 17715

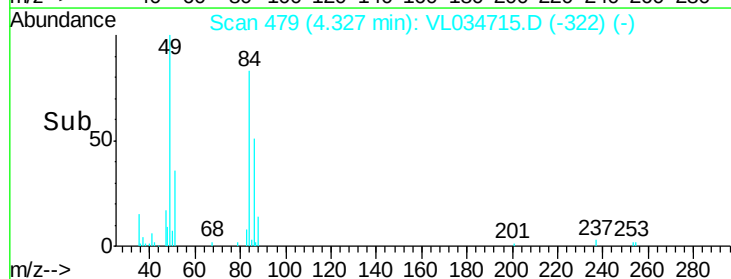
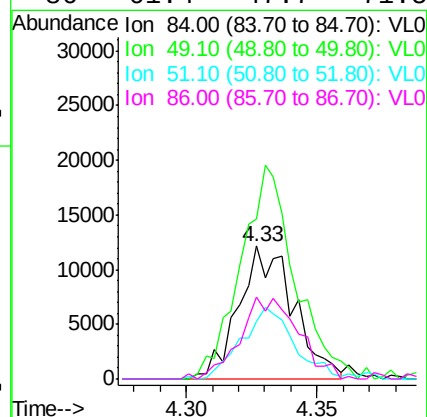
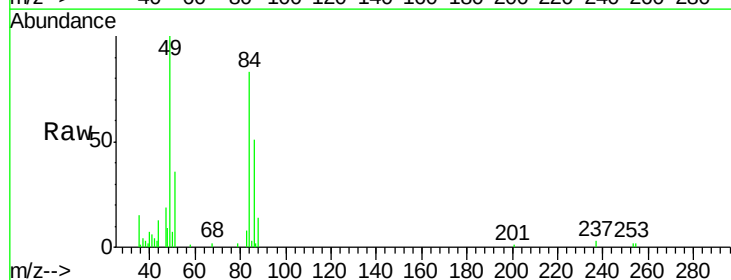
Ion Ratio Lower Upper

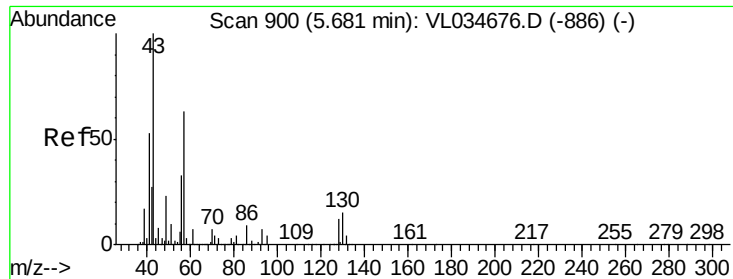
84 100

49 121.1 122.8 184.2#

51 43.7 38.6 58.0

86 61.4 47.7 71.5





#26

Hexane

Concen: 0.104 ppbv m

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL034715.D

Acq: 27 Feb 2020 19:13

Instrument :

MSVOA\_L

ClientSampleId :

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

Tot Ion: 57 Resp: 10222

Ion Ratio Lower Upper

57 100

41 115.2 70.3 105.5#

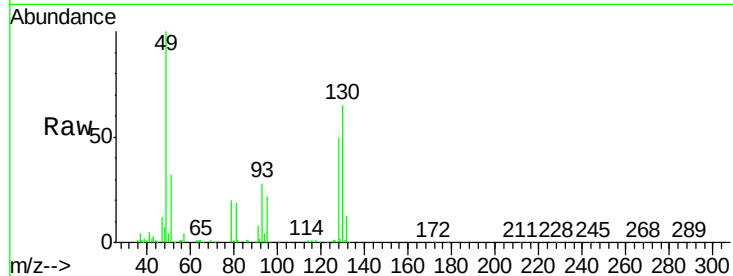
43 81.3 177.0 265.4#

56 56.3 42.6 64.0

Manual Integrations  
APPROVED

MMDadoda

2/28/2020 12:32:58 PM

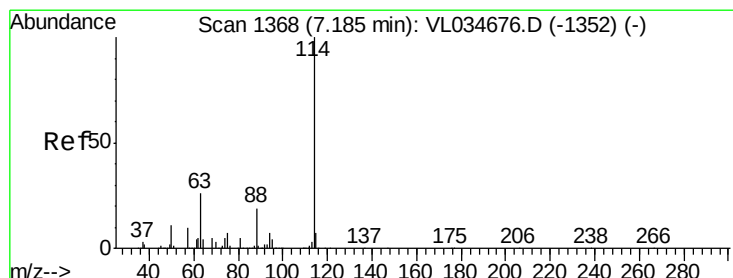
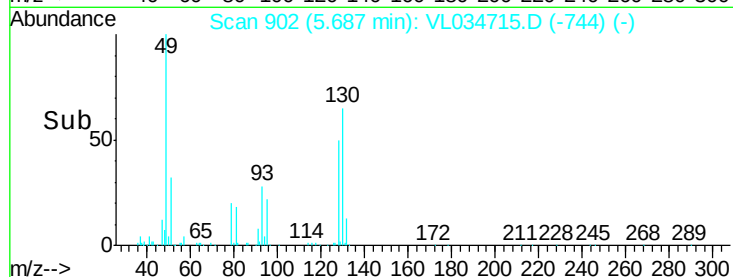
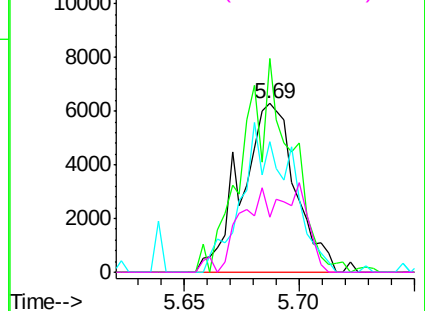


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VL034715.D

Acq: 27 Feb 2020 19:13

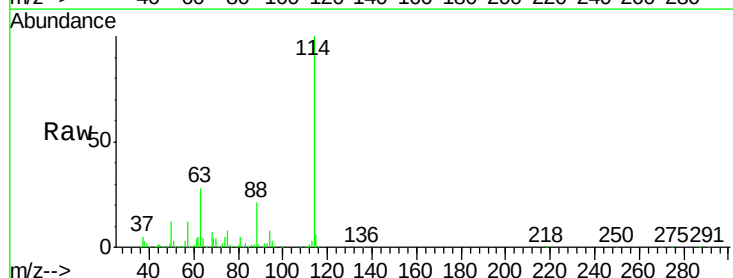
Tgt Ion: 114 Resp: 2134048

Ion Ratio Lower Upper

114 100

63 29.5 22.9 34.3

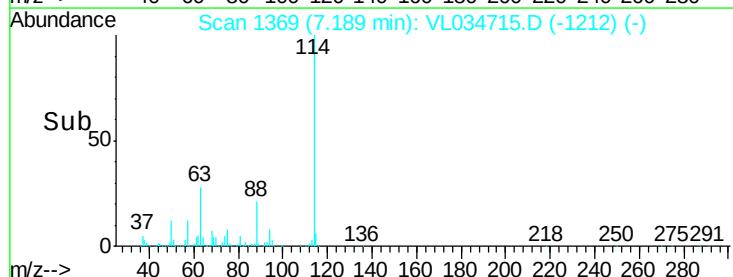
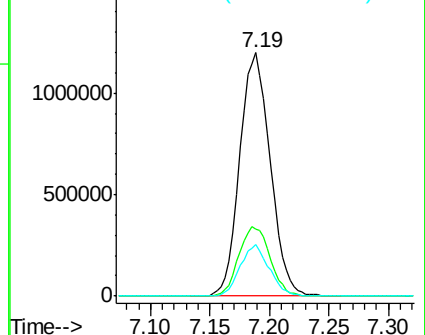
88 20.1 15.8 23.6

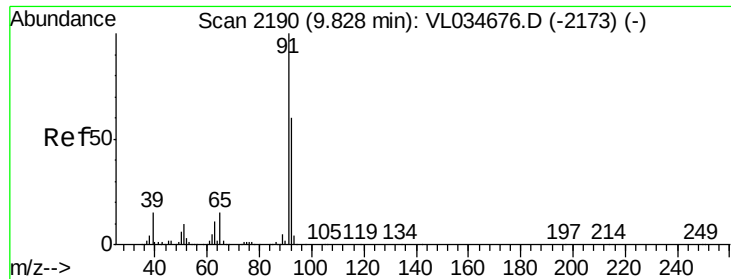


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#53

Toluene

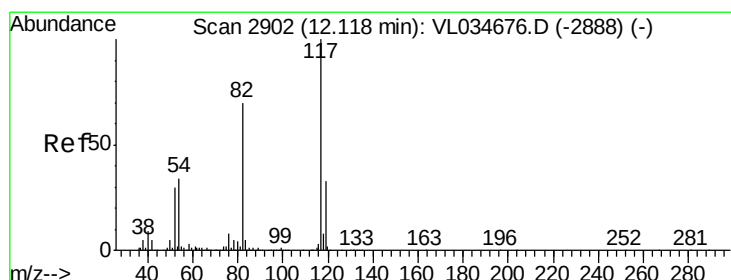
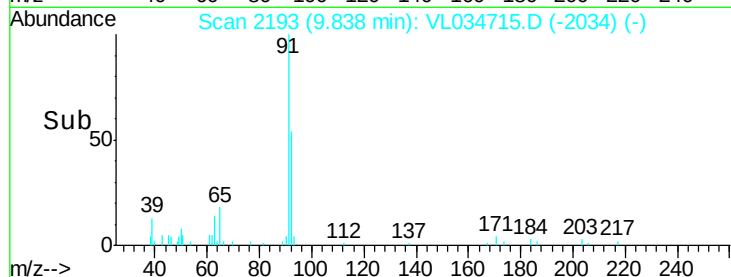
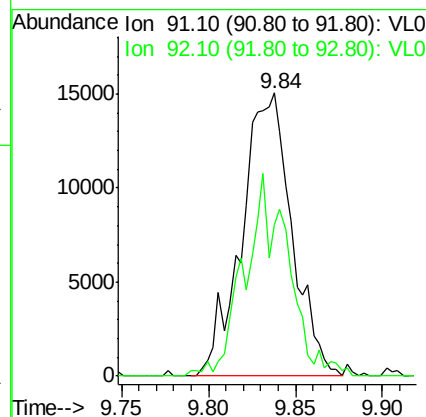
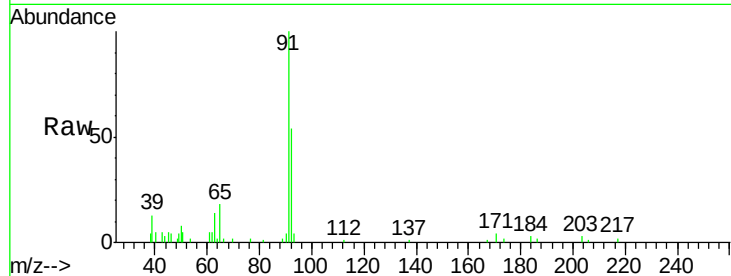
Concen: 0.154 ppbv m  
RT: 9.84 min Scan# 2193  
Delta R.T. 0.01 min  
Lab File: VL034715.D  
Acq: 27 Feb 2020 19:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion: 91 Resp: 30201  
Ion Ratio Lower Upper  
91 100  
92 62.4 48.5 72.7

Manual Integrations  
APPROVED

MMDadoda  
2/28/2020 12:32:58 PM

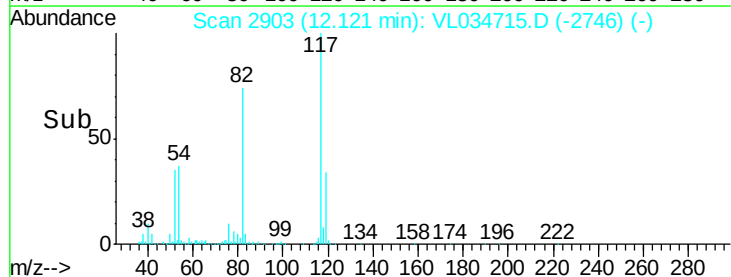
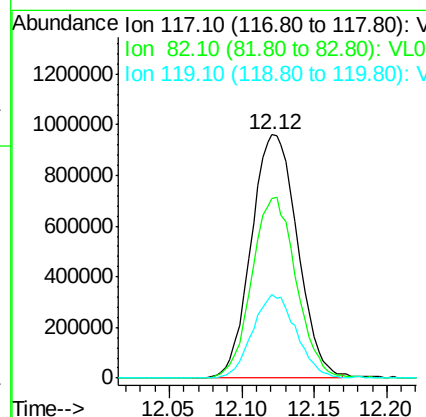
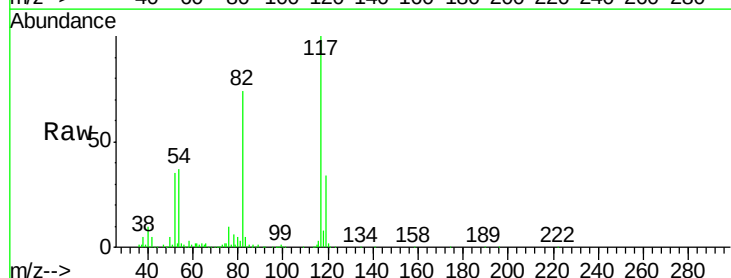


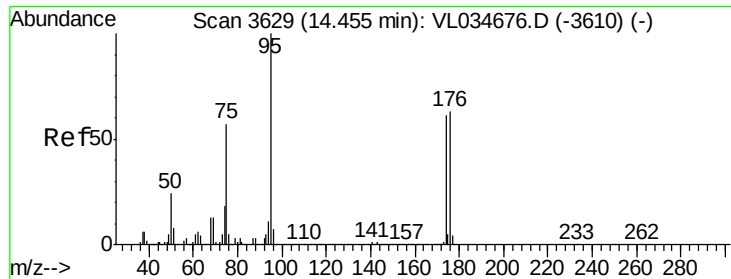
#55

Chlorobenzene-d5

Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2903  
Delta R.T. 0.00 min  
Lab File: VL034715.D  
Acq: 27 Feb 2020 19:13

Tgt Ion: 117 Resp: 2123920  
Ion Ratio Lower Upper  
117 100  
82 71.7 54.1 81.1  
119 32.7 27.6 41.4





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.461 ppbv  
 RT: 14.46 min Scan# 3631  
 Delta R.T. 0.01 min  
 Lab File: VL034715.D  
 Acq: 27 Feb 2020 19:13

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IAS-4-STORGE-RM-NEXT-TO-CAFE

Tot Ion: 95 Resp: 1821775  
 Ion Ratio Lower Upper  
 95 100  
 174 62.3 50.7 76.1  
 175 4.4 3.9 5.9

Manual Integrations  
 APPROVED

MMDadoda  
 2/28/2020 12:32:58 PM

