

Data File : VV010396.D  
Acq On : 19 Apr 2019 21:21  
Operator : SY/MD  
Sample : K2456-12  
Misc : 5.02G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
GAHQ0

Quant Time: Apr 20 04:38:26 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041819S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 20 04:30:57 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 356881   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 328322   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 155594   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 97688    | 21.56    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 86.24% |
| 7) Chloroethane-d5             | 1.57   | 69    | 87611    | 23.02    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.08% |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 151784   | 13.88    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 55.52% |
| 20) 2-Butanone-d5              | 3.94   | 46    | 56233    | 39.85    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 79.70% |
| 24) Chloroform-d               | 4.40   | 84    | 209043   | 22.28    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 89.12% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 128253   | 23.16    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 92.64% |
| 29) Benzene-d6                 | 5.10   | 84    | 385638   | 22.95    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 91.80% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 120873   | 24.58    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 98.32% |
| 37) Toluene-d8                 | 7.36   | 98    | 362881   | 22.46    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 89.84% |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 48352    | 19.99    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 79.96% |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 41806    | 38.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 76.34% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 100911   | 20.51    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 82.04% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 141339   | 23.10    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.40% |

#### Target Compounds

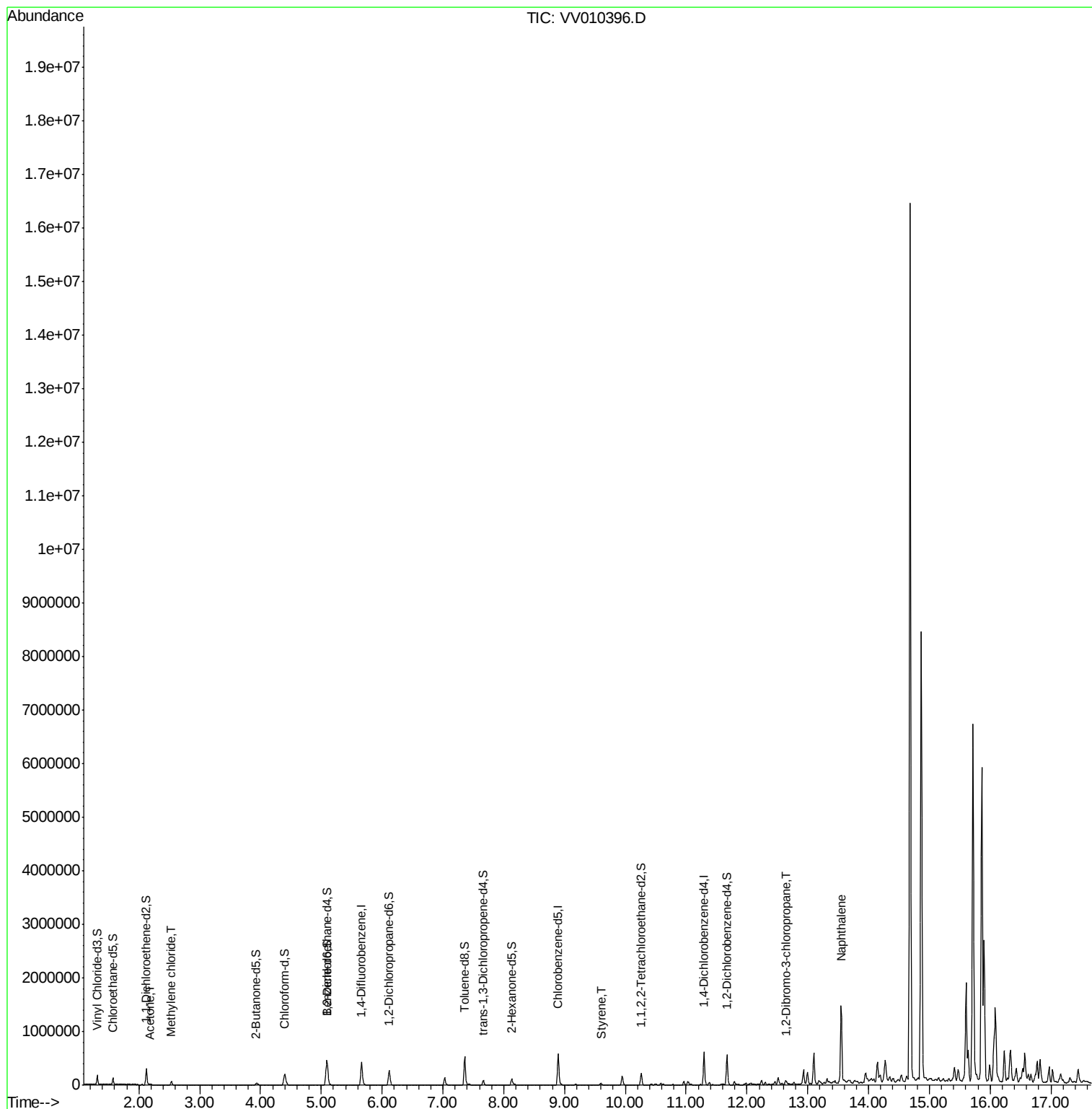
|                                |       |     |         |              | Qvalue |
|--------------------------------|-------|-----|---------|--------------|--------|
| 13) Acetone                    | 2.19  | 43  | 5125    | 3.441 ug/L   | 96     |
| 16) Methylene chloride         | 2.53  | 84  | 28040   | 4.919 ug/L   | 97     |
| 56) Styrene                    | 9.60  | 104 | 9888    | 0.756 ug/L   | 95     |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75  | 1154    | 1.576 ug/L # | 1      |
| 69) Naphthalene                | 13.55 | 128 | 1080362 | 92.752 ug/L  | 99     |

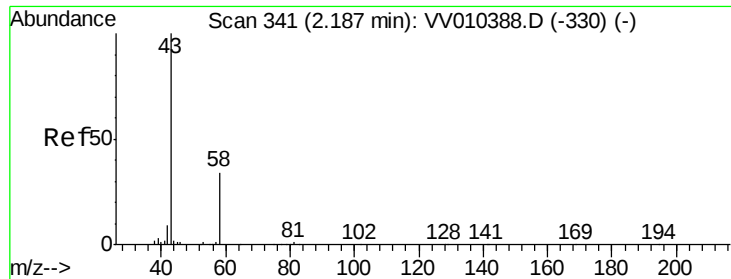
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 3.441 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

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Instrument :

MSVOA\_V

ClientSampleId :

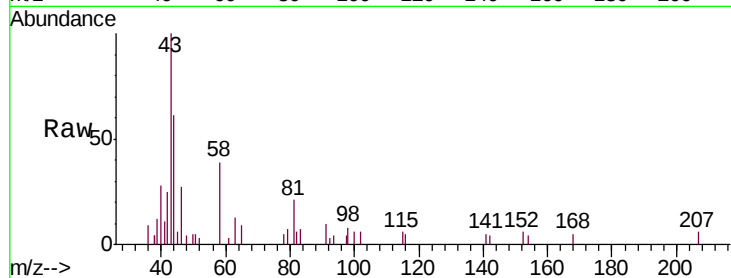
GAHQ0

Tgt Ion: 43 Resp: 5125

Ion Ratio Lower Upper

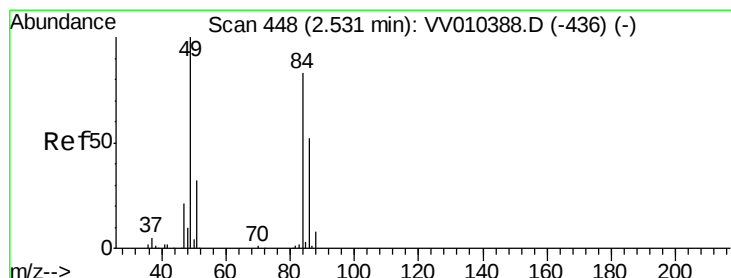
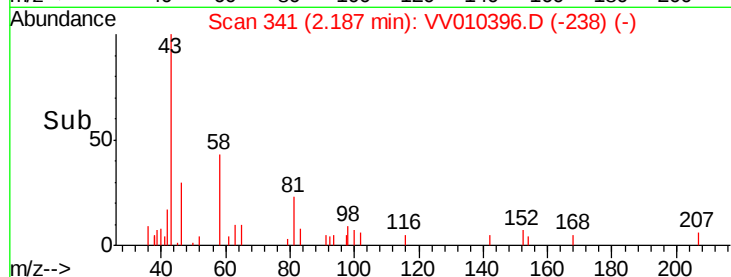
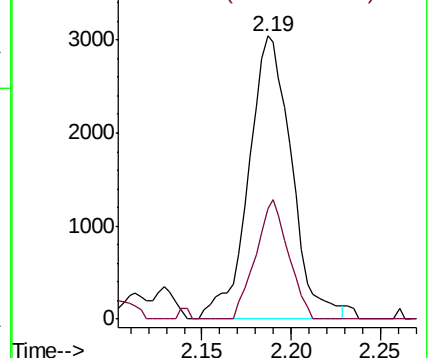
43 100

58 32.2 0.0 60.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#16

Methylene chloride

Concen: 4.919 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

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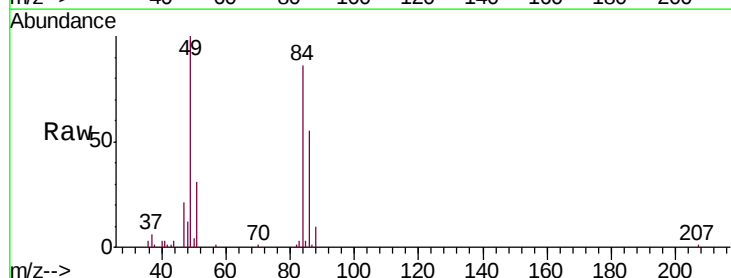
Tgt Ion: 84 Resp: 28040

Ion Ratio Lower Upper

84 100

49 116.0 83.8 155.6

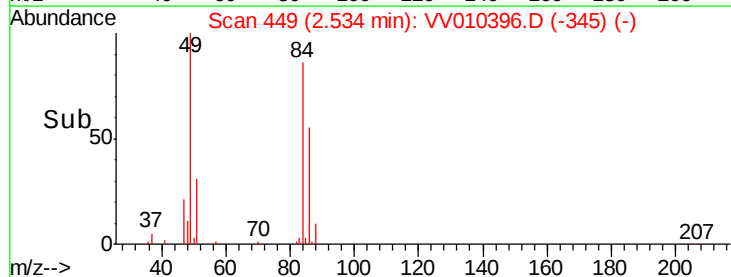
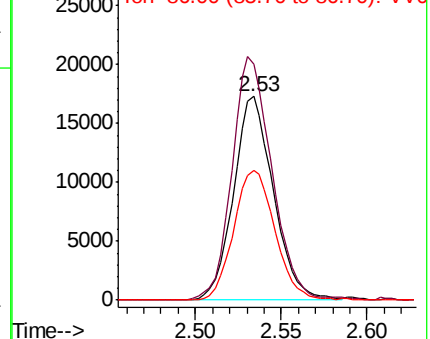
86 63.4 46.1 85.5

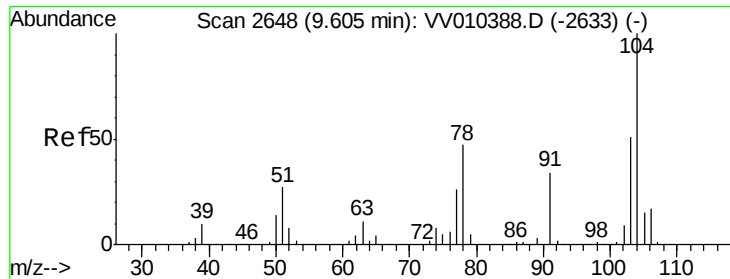


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0





#56

Styrene

Concen: 0.756 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

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ClientSampleId :

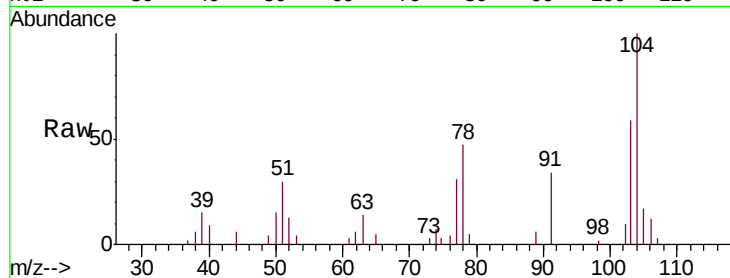
GAHQ0

Tgt Ion: 104 Resp: 9888

Ion Ratio Lower Upper

104 100

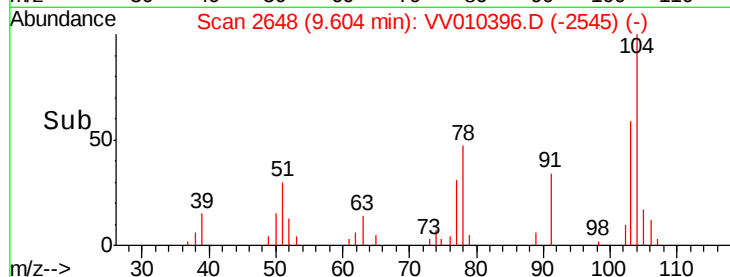
78 46.9 30.7 56.9



Abundance Ion 104.00 (103.70 to 104.70): VV010388.D (-2633) (-)

Ion 78.00 (77.70 to 78.70): VV010388.D (-2633) (-)

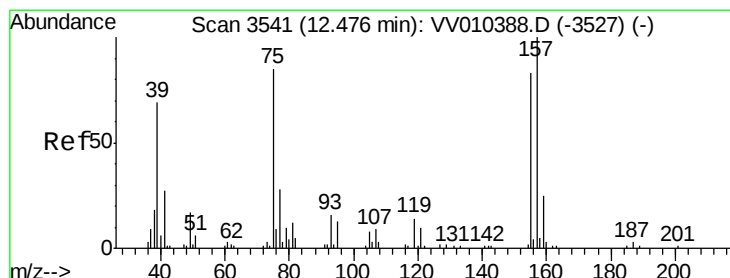
Time-->



Abundance Ion 104.00 (103.70 to 104.70): VV010396.D (-2545) (-)

Ion 78.00 (77.70 to 78.70): VV010396.D (-2545) (-)

Time-->



#66

1,2-Dibromo-3-chloropropane

Concen: 1.576 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.17 min

Lab File: VV010396.D

Acq: 19 Apr 2019 21:21

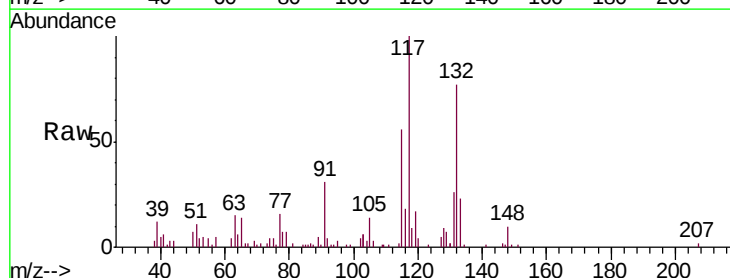
Tgt Ion: 75 Resp: 1154

Ion Ratio Lower Upper

75 100

157 0.0 100.6 151.0#

155 0.0 75.1 112.7#

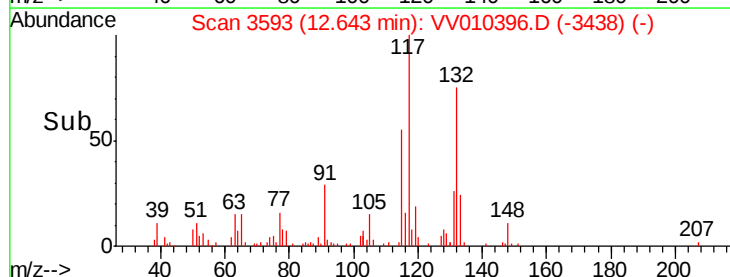


Abundance Ion 75.00 (74.70 to 75.70): VV010388.D (-3527) (-)

Ion 157.00 (156.70 to 157.70): VV010388.D (-3527) (-)

Ion 155.00 (154.70 to 155.70): VV010388.D (-3527) (-)

Time-->

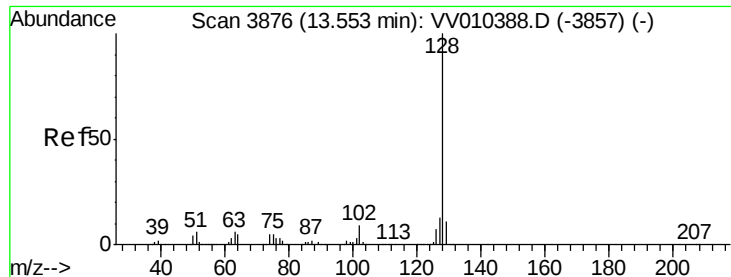


Abundance Ion 75.00 (74.70 to 75.70): VV010396.D (-3438) (-)

Ion 157.00 (156.70 to 157.70): VV010396.D (-3438) (-)

Ion 155.00 (154.70 to 155.70): VV010396.D (-3438) (-)

Time-->



#69

Naphthalene

Concen: 92.752 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010396.D

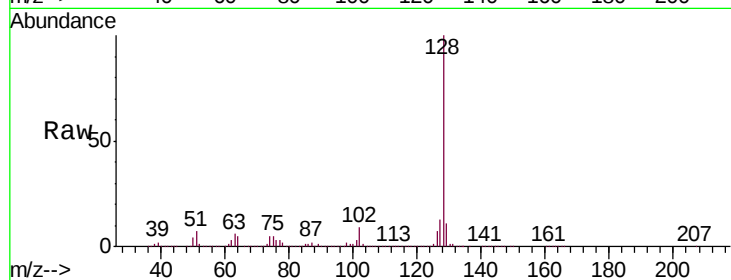
Acq: 19 Apr 2019 21:21

Instrument :

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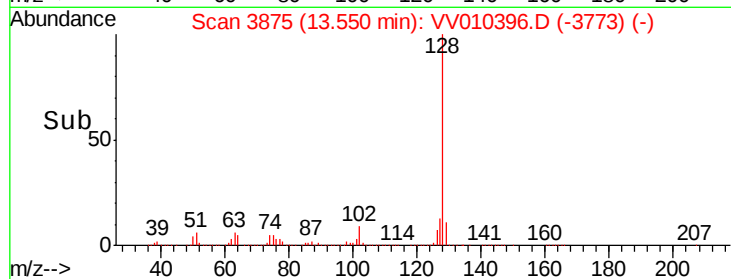
Tgt Ion:128 Resp: 1080362

Ion Ratio Lower Upper

128 100

129 11.4 8.7 13.1

127 13.1 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V

