8. ANNEXURE

GRAPHS AND SPECTRUM

Fig 8.1- Linear Graph for Abacavir

![Graph for Abacavir]

Fig 8.2- Linear Graph for Tenofovir

![Graph for Tenofovir]
Fig 8.3- Linear Graph for Emtricitabine

\[ y = 60231x + 2E+07 \]
\[ R^2 = 0.9992 \]

Fig 8.4- Linear Graph for Efavirenz

\[ y = 373.34x - 2E+06 \]
\[ R^2 = 0.999 \]
Fig 8.5- Linear Graph for Nelfinavir

![Linear Graph for Nelfinavir](graph.png)

Linearity

\[ y = 100683x - 1E+06 \]

\[ R^2 = 0.9999 \]
SPECTRUM FOR LINEARITY

ABACAVIR (Dilution 1)

Fig 8.6- (Replicate 1)

<table>
<thead>
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Fig 8.7- (Replicate 2)

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**Fig 8.8- (Replicate 3)**

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**Dilution 2**

**Fig 8.9- (Replicate 1)**

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Dilution 3

Fig 8.12- (Replicate 1)

![Graph showing retention time against volts for Ab with data points at 7.74 minutes.]

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Totals

<table>
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Fig 8.13- (Replicate 2)

![Graph showing retention time against volts for Ab with data points at 7.74 minutes.]

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Totals

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Fig 8.14- (Replicate 3)

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**Dilution 4**

Fig 8.15- (Replicate 1)

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**Fig 8.16- (Replicate 2)**

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**Fig 8.17- (Replicate 3)**

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Dilution 5

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**Fig 8.19- (Replicate 2)**

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Fig 8.20- (Replicate 3)

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**Dilution 6**

Fig 8.21- (Replicate 1)

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132
Fig 8.22- (Replicate 2)

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Totals                          | 13925411 | 100.00 | 100.00 |

Fig 8.23- (Replicate 3)

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Totals                          | 13852137 | 100.00 | 100.00 |
TENOFOVIR (Dilution 1)

Fig 8.24- (Replicate 1)

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Totals: 6768459 100.00 100.00

Fig 8.25- (Replicate 2)

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Totals: 6752369 100.00 100.00
**Fig 8.26- (Replicate 3)**

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Totals | | | 6742851 | 100.00 | 100.00 |

**(Dilution 2)**

**Fig 8.27- (Replicate 1)**

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Totals | | | 7476074 | 100.00 | 100.00 |
Fig 8.28- (Replicate 2)

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Totals |       |        | 7462105| 100.00   | 100.00   |

Fig 8.29- (Replicate 3)

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Totals |       |        | 7461025| 100.00   | 100.00   |
(Dilution 3)

**Fig 8.30- (Replicate 1)**

![Graph showing retention time and area percentage for replicate 1.]

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**Fig 8.31- (Replicate 2)**

![Graph showing retention time and area percentage for replicate 2.]

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**Totals**

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137
Fig 8.32- (Replicate 3)

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Totals

9379921 100.00 100.00

(Dilution 4)

Fig 8.33- (Replicate 1)

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Totals

9379921 100.00 100.00
Fig 8.34- (Replicate 2)

![Graph showing retention time vs volts as a function of time.]

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Fig 8.35- (Replicate 3)

![Graph showing retention time vs volts as a function of time.]

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(Dilution 5)

Fig 8.36 - (Replicate 1)

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Totals

|       |               | 10224371 | 100.00  | 100.00   |

Fig 8.37 - (Replicate 2)

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Totals

|       |               | 10326598 | 100.00  | 100.00   |
Fig 8.38- (Replicate 3)

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Totals |   | 10212852 | 100.00 | 100.00 |

(Dilution 6)

Fig 8.39- (Replicate 1)

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Totals |   | 11225410 | 100.00 | 100.00 |
Fig 8.40- (Replicate 2)

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Totals | | 11201254 | 100.00 | 100.00 |

Fig 8.41- (Replicate 3)

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Totals | | 11092541 | 100.00 | 100.00 |
EMTRICITABINE (Dilution 1)

Fig 8.42- (Replicate 1)

<table>
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Totals

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Fig 8.43- (Replicate 2)

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Totals

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Fig 8.44- (Replicate 3)

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Totals | | 33123584 | 100.00 | 100.00 |

(Dilution 2)

Fig 8.45- (Replicate 1)

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Totals | | 36012322 | 100.00 | 100.00 |
Fig 8.46- (Replicate 2)

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Totals: 360325 | 100.00 | 100.00 |

Fig 8.47- (Replicate 3)

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Totals: 36102001 | 100.00 | 100.00 |
(Dilution 3)

Fig 8.48- (Replicate 1)

![Retention Time Graph](image1)

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<th>Height %</th>
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<tr>
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Fig 8.49- (Replicate 2)

![Retention Time Graph](image2)

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<th>Height %</th>
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146
Fig 8.50 - (Replicate 3)

<table>
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Totals:

|     |     | 39625814 | 100.00  | 100.00   |

(Dilution 4)

Fig 8.51 - (Replicate 1)

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Totals:

|     |     | 42156387 | 100.00  | 100.00   |
Fig 8.52- (Replicate 2)

<table>
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<th>Height %</th>
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Fig 8.53- (Replicate 3)

<table>
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(Dilution 5)

Fig 8.54- (Replicate 1)

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Fig 8.55- (Replicate 2)

<table>
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</table>

|      |                | 45214360 | 100.00 | 100.00   |
Fig 8.56- (Replicate 3)

![Graph showing retention time and area percentage for Em with retention time 9.30 and area 45210362, area % 100.00 and height % 100.00.]

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<th>Height %</th>
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(Dilution 6)

Fig 8.57- (Replicate 1)

![Graph showing retention time and area percentage for Em with retention time 9.30 and area 48231552, area % 100.00 and height % 100.00.]

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Fig 8.58- (Replicate 2)

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Totals |
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Fig 8.59- (Replicate 3)

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Totals |
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EFAVIRENZ (Dilution 1)

Fig 8.60- (Replicate 1)

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Totals

|       |                |        | 100.00 | 100.00  |

Fig 8.61- (Replicate 2)

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Totals

|       |                |        | 100.00 | 100.00  |
Fig 8.62- (Replicate 3)

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Totals | 34201 | 100.00 | 100.00 |

(Dilution 2)

Fig 8.63- (Replicate 1)

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Totals | 4210201 | 100.00 | 100.00 |
Fig 8.64- (Replicate 2)

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Fig 8.65- (Replicate 3)

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(Dilution 3)

Fig 8.66- (Replicate 1)

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Fig 8.67- (Replicate 2)

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Fig 8.68- (Replicate 3)

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Totals  |        | 4681234 | 100.00  | 100.00   |

(Dilution 4)

Fig 8.69- (Replicate 1)

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Totals  |        | 5049177 | 100.00  | 100.00   |
### Fig 8.70- (Replicate 2)

![Retention Time vs. Area Chart](image)

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<th>Area %</th>
<th>Height %</th>
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</table>

### Fig 8.71- (Replicate 3)

![Retention Time vs. Area Chart](image)

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<th>Height %</th>
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(Dilution 5)

**Fig 8.72 - (Replicate 1)**

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</table>

**Fig 8.73 - (Replicate 2)**

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158
### Fig 8.74- (Replicate 3)

![Graph](image)

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</table>

**Totals**

|       |               |        | 5486385| 100.00  | 100.00  |

(Dilution 6)

### Fig 8.75- (Replicate 1)

![Graph](image)

<table>
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<td>100.00</td>
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**Totals**

|       |               |        | 5963214| 100.00  | 100.00  |
### Fig 8.76- (Replicate 2)

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**Totals**: 5972532 | 100.00 | 100.00

### Fig 8.77- (Replicate 3)

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**Totals**: 5985248 | 100.00 | 100.00
NELFINAVIR (Dilution 1)

Fig 8.78- (Replicate 1)

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Totals 8705844 100.00

Fig 8.79- (Replicate 2)

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Totals 8697883 100.00
**ANNEXURE**

Fig 8.80- (Replicate 3)

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**Dilution 2**

Fig 8.81- (Replicate 1)

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**Fig 8.82- (Replicate 2)**

![Graph](image)

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**Totals**

|       |       | 18594194 | 100.00       |

**Fig 8.83- (Replicate 3)**

![Graph](image)

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**Totals**

|       |       | 18850865 | 100.00       |
Dilution 3

Fig 8.84- (Replicate 1)

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Totals

| | | 28590874 | 100.00 |

Fig 8.85- (Replicate 2)

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Totals

| | | 28356901 | 100.00 |

164
Fig 8.86- (Replicate 3)

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Dilution 4

Fig 8.87- (Replicate 1)

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Totals |       | 38935535 | 100.00       |
Fig 8.88- (Replicate 2)

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Totals

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Fig 8.89- (Replicate 3)

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Dilution 5

Fig 8.90- (Replicate 1)

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Fig 8.91- (Replicate 2)

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Fig 8.92- (Replicate 3)

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Dilution 6

Fig 8.93- (Replicate 1)

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**Totals**

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### Fig 8.95- (Replicate 3)

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