

Instrument ID: ECD\_O

**Daily Analysis Runlog For Sequence/QC Batch ID # PO100925**

|              |          |                   |                               |
|--------------|----------|-------------------|-------------------------------|
| Review By    | yogesh   | Review On         | 10/9/2025 1:00:25 PM          |
| Supervise By | mohammad | Supervise On      | 10/11/2025 1:35:39 AM         |
| SubDirectory | PO100925 | HP Acquire Method | HP Processing Method PO100925 |

| STD. NAME                | STD REF.#                                                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tune/Reschk              |                                                                                                                                                                                                                                                                                                                                 |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC                      |                                                                                                                                                                                                                                                                                                                                 |
| Internal Standard/PEM    |                                                                                                                                                                                                                                                                                                                                 |
| ICV/I.BLK                | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862                                                                                                                                                                                                 |
| Surrogate Standard       |                                                                                                                                                                                                                                                                                                                                 |
| MS/MSD Standard          |                                                                                                                                                                                                                                                                                                                                 |
| LCS Standard             |                                                                                                                                                                                                                                                                                                                                 |

| Sr# | SampleId      | ClientID      | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|---------------|---------------|----------------|-------------------|---------|----------|--------|
| 1   | HEXANE        | HEXANE        | PO114311.D     | 09 Oct 2025 13:37 |         | YP/AJ    | Ok     |
| 2   | I.BLK         | I.BLK         | PO114312.D     | 09 Oct 2025 13:55 |         | YP/AJ    | Ok     |
| 3   | AR1660ICC1000 | AR1660ICC1000 | PO114313.D     | 09 Oct 2025 14:14 |         | YP/AJ    | Ok     |
| 4   | AR1660ICC750  | AR1660ICC750  | PO114314.D     | 09 Oct 2025 14:32 |         | YP/AJ    | Ok     |
| 5   | AR1660ICC500  | AR1660ICC500  | PO114315.D     | 09 Oct 2025 14:50 |         | YP/AJ    | Ok     |
| 6   | AR1660ICC250  | AR1660ICC250  | PO114316.D     | 09 Oct 2025 15:09 |         | YP/AJ    | Ok     |
| 7   | AR1660ICC050  | AR1660ICC050  | PO114317.D     | 09 Oct 2025 15:27 |         | YP/AJ    | Ok,M   |
| 8   | AR1221ICC500  | AR1221ICC500  | PO114318.D     | 09 Oct 2025 15:45 |         | YP/AJ    | Ok     |
| 9   | AR1232ICC500  | AR1232ICC500  | PO114319.D     | 09 Oct 2025 16:04 |         | YP/AJ    | Ok     |
| 10  | AR1242ICC1000 | AR1242ICC1000 | PO114320.D     | 09 Oct 2025 16:22 |         | YP/AJ    | Ok     |
| 11  | AR1242ICC750  | AR1242ICC750  | PO114321.D     | 09 Oct 2025 16:40 |         | YP/AJ    | Ok     |
| 12  | AR1242ICC500  | AR1242ICC500  | PO114322.D     | 09 Oct 2025 16:59 |         | YP/AJ    | Ok     |
| 13  | AR1242ICC250  | AR1242ICC250  | PO114323.D     | 09 Oct 2025 17:17 |         | YP/AJ    | Ok     |
| 14  | AR1242ICC050  | AR1242ICC050  | PO114324.D     | 09 Oct 2025 17:35 |         | YP/AJ    | Ok,M   |
| 15  | AR1248ICC1000 | AR1248ICC1000 | PO114325.D     | 09 Oct 2025 17:54 |         | YP/AJ    | Ok     |
| 16  | AR1248ICC750  | AR1248ICC750  | PO114326.D     | 09 Oct 2025 18:12 |         | YP/AJ    | Ok     |
| 17  | AR1248ICC500  | AR1248ICC500  | PO114327.D     | 09 Oct 2025 18:30 |         | YP/AJ    | Ok     |
| 18  | AR1248ICC250  | AR1248ICC250  | PO114328.D     | 09 Oct 2025 18:49 |         | YP/AJ    | Ok,M   |

Instrument ID: ECD\_O

**Daily Analysis Runlog For Sequence/QC Batch ID # PO100925**

|                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| Review By                                                                                                                                         | yogesh                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Review On         | 10/9/2025 1:00:25 PM          |
| Supervise By                                                                                                                                      | mohammad                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Supervise On      | 10/11/2025 1:35:39 AM         |
| SubDirectory                                                                                                                                      | PO100925                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HP Acquire Method | HP Processing Method PO100925 |
| <b>STD. NAME</b>                                                                                                                                  | <b>STD REF.#</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds<br><br>CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,P<br>P24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP<br>24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854<br><br>PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |                   |                               |

|    |                |                   |            |                   |  |       |      |
|----|----------------|-------------------|------------|-------------------|--|-------|------|
| 19 | AR1248ICC050   | AR1248ICC050      | PO114329.D | 09 Oct 2025 19:07 |  | YP/AJ | Ok,M |
| 20 | AR1254ICC1000  | AR1254ICC1000     | PO114330.D | 09 Oct 2025 19:26 |  | YP/AJ | Ok   |
| 21 | AR1254ICC750   | AR1254ICC750      | PO114331.D | 09 Oct 2025 19:44 |  | YP/AJ | Ok   |
| 22 | AR1254ICC500   | AR1254ICC500      | PO114332.D | 09 Oct 2025 20:02 |  | YP/AJ | Ok   |
| 23 | AR1254ICC250   | AR1254ICC250      | PO114333.D | 09 Oct 2025 20:21 |  | YP/AJ | Ok   |
| 24 | AR1254ICC050   | AR1254ICC050      | PO114334.D | 09 Oct 2025 20:39 |  | YP/AJ | Ok   |
| 25 | AR1262ICC500   | AR1262ICC500      | PO114335.D | 09 Oct 2025 20:57 |  | YP/AJ | Ok   |
| 26 | AR1268ICC1000  | AR1268ICC1000     | PO114336.D | 09 Oct 2025 21:16 |  | YP/AJ | Ok   |
| 27 | AR1268ICC750   | AR1268ICC750      | PO114337.D | 09 Oct 2025 21:34 |  | YP/AJ | Ok   |
| 28 | AR1268ICC500   | AR1268ICC500      | PO114338.D | 09 Oct 2025 21:52 |  | YP/AJ | Ok   |
| 29 | AR1268ICC250   | AR1268ICC250      | PO114339.D | 09 Oct 2025 22:11 |  | YP/AJ | Ok,M |
| 30 | AR1268ICC050   | AR1268ICC050      | PO114340.D | 09 Oct 2025 22:29 |  | YP/AJ | Ok,M |
| 31 | PO100925ICV500 | ICVPO100925       | PO114341.D | 09 Oct 2025 22:47 |  | YP/AJ | Ok   |
| 32 | AR1242ICV500   | ICVPO100925AR1242 | PO114342.D | 09 Oct 2025 23:24 |  | YP/AJ | Ok   |
| 33 | AR1248ICV500   | ICVPO100925AR1248 | PO114343.D | 10 Oct 2025 00:01 |  | YP/AJ | Ok   |
| 34 | AR1254ICV500   | ICVPO100925AR1254 | PO114344.D | 10 Oct 2025 00:38 |  | YP/AJ | Ok   |
| 35 | AR1268ICV500   | ICVPO100925AR1268 | PO114345.D | 10 Oct 2025 01:14 |  | YP/AJ | Ok   |
| 36 | DDT ANALOG     | DDT ANALOG        | PO114346.D | 10 Oct 2025 01:51 |  | YP/AJ | Ok   |

M : Manual Integration

Instrument ID: ECD\_O

**Daily Analysis Runlog For Sequence/QC Batch ID # PO101325**

|              |          |                   |                               |
|--------------|----------|-------------------|-------------------------------|
| Review By    | yogesh   | Review On         | 10/13/2025 10:47:01 AM        |
| Supervise By | mohammad | Supervise On      | 10/15/2025 1:14:54 AM         |
| SubDirectory | PO101325 | HP Acquire Method | HP Processing Method PO100925 |

| STD. NAME                | STD REF.#                                                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tune/Reschk              |                                                                                                                                                                                                                                                                                                                                 |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC                      | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852                                                                                                                                                                                                                                                                         |
| Internal Standard/PEM    |                                                                                                                                                                                                                                                                                                                                 |
| ICV/I.BLK                | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862                                                                                                                                                                                                 |
| Surrogate Standard       |                                                                                                                                                                                                                                                                                                                                 |
| MS/MSD Standard          |                                                                                                                                                                                                                                                                                                                                 |
| LCS Standard             |                                                                                                                                                                                                                                                                                                                                 |

| Sr# | SampleId     | ClientID         | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|--------------|------------------|----------------|-------------------|---------|----------|--------|
| 1   | HEXANE       | HEXANE           | PO114347.D     | 13 Oct 2025 09:17 |         | YP/AJ    | Ok     |
| 2   | AR1660CCC500 | AR1660CCC500     | PO114348.D     | 13 Oct 2025 10:12 |         | YP/AJ    | Ok     |
| 3   | AR1242CCC500 | AR1242CCC500     | PO114349.D     | 13 Oct 2025 10:30 |         | YP/AJ    | Ok     |
| 4   | AR1248CCC500 | AR1248CCC500     | PO114350.D     | 13 Oct 2025 10:48 |         | YP/AJ    | Ok     |
| 5   | AR1254CCC500 | AR1254CCC500     | PO114351.D     | 13 Oct 2025 11:07 |         | YP/AJ    | Ok     |
| 6   | I.BLK        | I.BLK            | PO114352.D     | 13 Oct 2025 11:25 |         | YP/AJ    | Ok     |
| 7   | Q3326-05     | TP-2             | PO114353.D     | 13 Oct 2025 12:42 |         | YP/AJ    | Ok     |
| 8   | Q3327-01     | HADLEY-ROAD-TP   | PO114354.D     | 13 Oct 2025 13:00 |         | YP/AJ    | Ok     |
| 9   | Q3327-01MS   | HADLEY-ROAD-TPMS | PO114355.D     | 13 Oct 2025 13:19 |         | YP/AJ    | Ok,M   |
| 10  | Q3327-01MSD  | HADLEY-ROAD-TPMS | PO114356.D     | 13 Oct 2025 13:37 |         | YP/AJ    | Ok     |
| 11  | Q3332-01     | 100225-D         | PO114357.D     | 13 Oct 2025 13:55 |         | YP/AJ    | Ok,M   |
| 12  | Q3334-01     | 100325           | PO114358.D     | 13 Oct 2025 14:14 |         | YP/AJ    | Ok     |
| 13  | AR1660CCC500 | AR1660CCC500     | PO114359.D     | 13 Oct 2025 15:26 |         | YP/AJ    | Ok     |
| 14  | AR1242CCC500 | AR1242CCC500     | PO114360.D     | 13 Oct 2025 15:45 |         | YP/AJ    | Ok     |
| 15  | AR1248CCC500 | AR1248CCC500     | PO114361.D     | 13 Oct 2025 16:02 |         | YP/AJ    | Ok     |
| 16  | AR1254CCC500 | AR1254CCC500     | PO114362.D     | 13 Oct 2025 16:21 |         | YP/AJ    | Ok,M   |
| 17  | I.BLK        | I.BLK            | PO114363.D     | 13 Oct 2025 16:39 |         | YP/AJ    | Ok     |
| 18  | PB170078BL   | PB170078BL       | PO114364.D     | 13 Oct 2025 18:45 |         | YP/AJ    | Ok     |

Instrument ID: ECD\_O

**Daily Analysis Runlog For Sequence/QC Batch ID # PO101325**

|                          |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| Review By                | yogesh                                                                                                                                                                                                                                                                                                                                  | Review On         | 10/13/2025 10:47:01 AM        |
| Supervise By             | mohammad                                                                                                                                                                                                                                                                                                                                | Supervise On      | 10/15/2025 1:14:54 AM         |
| SubDirectory             | PO101325                                                                                                                                                                                                                                                                                                                                | HP Acquire Method | HP Processing Method PO100925 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                                                                                                                                                                                                                                                                                                        |                   |                               |
| Tune/Reschk              |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,P<br>P24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP<br>24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |                   |                               |
| CCC                      | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852                                                                                                                                                                                                                                                                                 |                   |                               |
| Internal Standard/PEM    |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| ICV/I.BLK                | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862                                                                                                                                                                                                         |                   |                               |
| Surrogate Standard       |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| MS/MSD Standard          |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| LCS Standard             |                                                                                                                                                                                                                                                                                                                                         |                   |                               |

|    |              |              |            |                   |                                                          |       |          |
|----|--------------|--------------|------------|-------------------|----------------------------------------------------------|-------|----------|
| 19 | PB170078BS   | PB170078BS   | PO114365.D | 13 Oct 2025 19:03 |                                                          | YP/AJ | Ok       |
| 20 | Q3329-01     | 106          | PO114366.D | 13 Oct 2025 19:21 | AR1242 Hit                                               | YP/AJ | Ok,M     |
| 21 | Q3333-01     | 100725-A     | PO114367.D | 13 Oct 2025 19:39 |                                                          | YP/AJ | Ok       |
| 22 | Q3338-01     | 50696        | PO114368.D | 13 Oct 2025 19:57 | AR1242 hit , Need 20x dilution                           | YP/AJ | Dilution |
| 23 | Q3338-02     | 50697        | PO114369.D | 13 Oct 2025 20:15 | AR1242 Hit                                               | YP/AJ | Ok,M     |
| 24 | Q3338-03     | 50698-WIPE   | PO114370.D | 13 Oct 2025 20:34 | AR1248 Hit , Need 5x dilution;<br>Run again with cleanup | YP/AJ | Not Ok   |
| 25 | Q3338-04     | 50699        | PO114371.D | 13 Oct 2025 20:52 | AR1248 Hit , Need 5x<br>dilution;Run again with cleanup  | YP/AJ | Not Ok   |
| 26 | AR1660CCC500 | AR1660CCC500 | PO114372.D | 13 Oct 2025 22:06 |                                                          | YP/AJ | Ok       |
| 27 | AR1242CCC500 | AR1242CCC500 | PO114373.D | 13 Oct 2025 22:42 |                                                          | YP/AJ | Ok       |
| 28 | AR1248CCC500 | AR1248CCC500 | PO114374.D | 13 Oct 2025 23:01 |                                                          | YP/AJ | Ok       |
| 29 | AR1254CCC500 | AR1254CCC500 | PO114375.D | 13 Oct 2025 23:19 |                                                          | YP/AJ | Ok       |
| 30 | I.BLK        | I.BLK        | PO114376.D | 13 Oct 2025 23:38 |                                                          | YP/AJ | Ok       |

M : Manual Integration

Instrument ID: ECD\_P

**Daily Analysis Runlog For Sequence/QC Batch ID # PP092325**

|              |          |                   |                               |
|--------------|----------|-------------------|-------------------------------|
| Review By    | yogesh   | Review On         | 9/23/2025 12:35:13 PM         |
| Supervise By | mohammad | Supervise On      | 9/25/2025 2:25:37 AM          |
| SubDirectory | PP092325 | HP Acquire Method | HP Processing Method PP092325 |

| STD. NAME                                                                                                                                         | STD REF.#                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds<br><br>CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854<br><br>PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |

| Sr# | SampleId      | ClientID      | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|---------------|---------------|----------------|-------------------|---------|----------|--------|
| 1   | HEXANE        | HEXANE        | PP075245.D     | 23 Sep 2025 08:13 |         | YP\AJ    | Ok     |
| 2   | I.BLK         | I.BLK         | PP075246.D     | 23 Sep 2025 08:29 |         | YP\AJ    | Ok     |
| 3   | AR1660ICC1000 | AR1660ICC1000 | PP075247.D     | 23 Sep 2025 08:45 |         | YP\AJ    | Ok     |
| 4   | AR1660ICC750  | AR1660ICC750  | PP075248.D     | 23 Sep 2025 09:01 |         | YP\AJ    | Ok     |
| 5   | AR1660ICC500  | AR1660ICC500  | PP075249.D     | 23 Sep 2025 09:18 |         | YP\AJ    | Ok     |
| 6   | AR1660ICC250  | AR1660ICC250  | PP075250.D     | 23 Sep 2025 09:34 |         | YP\AJ    | Ok,M   |
| 7   | AR1660ICC050  | AR1660ICC050  | PP075251.D     | 23 Sep 2025 10:11 |         | YP\AJ    | Ok,M   |
| 8   | AR1221ICC500  | AR1221ICC500  | PP075252.D     | 23 Sep 2025 10:27 |         | YP\AJ    | Ok     |
| 9   | AR1232ICC500  | AR1232ICC500  | PP075253.D     | 23 Sep 2025 10:43 |         | YP\AJ    | Ok     |
| 10  | AR1242ICC1000 | AR1242ICC1000 | PP075254.D     | 23 Sep 2025 11:00 |         | YP\AJ    | Ok,M   |
| 11  | AR1242ICC750  | AR1242ICC750  | PP075255.D     | 23 Sep 2025 11:16 |         | YP\AJ    | Ok,M   |
| 12  | AR1242ICC500  | AR1242ICC500  | PP075256.D     | 23 Sep 2025 11:32 |         | YP\AJ    | Ok,M   |
| 13  | AR1242ICC250  | AR1242ICC250  | PP075257.D     | 23 Sep 2025 11:48 |         | YP\AJ    | Ok,M   |
| 14  | AR1242ICC050  | AR1242ICC050  | PP075258.D     | 23 Sep 2025 12:05 |         | YP\AJ    | Ok,M   |
| 15  | AR1248ICC1000 | AR1248ICC1000 | PP075259.D     | 23 Sep 2025 12:37 |         | YP\AJ    | Ok,M   |
| 16  | AR1248ICC750  | AR1248ICC750  | PP075260.D     | 23 Sep 2025 12:53 |         | YP\AJ    | Ok,M   |
| 17  | AR1248ICC500  | AR1248ICC500  | PP075261.D     | 23 Sep 2025 13:10 |         | YP\AJ    | Ok,M   |
| 18  | AR1248ICC250  | AR1248ICC250  | PP075262.D     | 23 Sep 2025 13:26 |         | YP\AJ    | Ok,M   |

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**Daily Analysis Runlog For Sequence/QC Batch ID # PP092325**

|                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| Review By                                                                                                                                         | yogesh                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Review On         | 9/23/2025 12:35:13 PM         |
| Supervise By                                                                                                                                      | mohammad                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Supervise On      | 9/25/2025 2:25:37 AM          |
| SubDirectory                                                                                                                                      | PP092325                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HP Acquire Method | HP Processing Method PP092325 |
| <b>STD. NAME</b>                                                                                                                                  | <b>STD REF.#</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds<br><br>CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,P<br>P24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP<br>24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854<br><br>PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862 |                   |                               |

|    |                |                   |            |                   |  |       |      |
|----|----------------|-------------------|------------|-------------------|--|-------|------|
| 19 | AR1248ICC050   | AR1248ICC050      | PP075263.D | 23 Sep 2025 13:42 |  | YPIAJ | Ok,M |
| 20 | AR1254ICC1000  | AR1254ICC1000     | PP075264.D | 23 Sep 2025 14:15 |  | YPIAJ | Ok,M |
| 21 | AR1254ICC750   | AR1254ICC750      | PP075265.D | 23 Sep 2025 14:31 |  | YPIAJ | Ok,M |
| 22 | AR1254ICC500   | AR1254ICC500      | PP075266.D | 23 Sep 2025 14:47 |  | YPIAJ | Ok,M |
| 23 | AR1254ICC250   | AR1254ICC250      | PP075267.D | 23 Sep 2025 15:04 |  | YPIAJ | Ok,M |
| 24 | AR1254ICC050   | AR1254ICC050      | PP075268.D | 23 Sep 2025 15:20 |  | YPIAJ | Ok,M |
| 25 | AR1262ICC500   | AR1262ICC500      | PP075269.D | 23 Sep 2025 15:52 |  | YPIAJ | Ok   |
| 26 | AR1268ICC1000  | AR1268ICC1000     | PP075270.D | 23 Sep 2025 16:09 |  | YPIAJ | Ok   |
| 27 | AR1268ICC750   | AR1268ICC750      | PP075271.D | 23 Sep 2025 16:25 |  | YPIAJ | Ok   |
| 28 | AR1268ICC500   | AR1268ICC500      | PP075272.D | 23 Sep 2025 16:41 |  | YPIAJ | Ok   |
| 29 | AR1268ICC250   | AR1268ICC250      | PP075273.D | 23 Sep 2025 16:58 |  | YPIAJ | Ok   |
| 30 | AR1268ICC050   | AR1268ICC050      | PP075274.D | 23 Sep 2025 17:14 |  | YPIAJ | Ok,M |
| 31 | PP092325ICV500 | ICVPP092325       | PP075275.D | 23 Sep 2025 17:46 |  | YPIAJ | Ok,M |
| 32 | AR1242ICV500   | ICVPP092325AR1242 | PP075276.D | 23 Sep 2025 18:35 |  | YPIAJ | Ok,M |
| 33 | AR1248ICV500   | ICVPP092325AR1248 | PP075277.D | 23 Sep 2025 19:08 |  | YPIAJ | Ok,M |
| 34 | AR1254ICV500   | ICVPP092325AR1254 | PP075278.D | 23 Sep 2025 19:40 |  | YPIAJ | Ok,M |
| 35 | AR1268ICV500   | ICVPP092325AR1268 | PP075279.D | 23 Sep 2025 19:57 |  | YPIAJ | Ok,M |
| 36 | DDT ANALOG     | DDT ANALOG        | PP075280.D | 23 Sep 2025 20:29 |  | YPIAJ | Ok   |

M : Manual Integration

Instrument ID: ECD\_P

**Daily Analysis Runlog For Sequence/QC Batch ID # PP101325**

|              |          |                   |                               |
|--------------|----------|-------------------|-------------------------------|
| Review By    | yogesh   | Review On         | 10/13/2025 10:48:15 AM        |
| Supervise By | mohammad | Supervise On      | 10/15/2025 1:15:02 AM         |
| SubDirectory | PP101325 | HP Acquire Method | HP Processing Method PP092325 |

| STD. NAME                | STD REF.#                                                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tune/Reschk              |                                                                                                                                                                                                                                                                                                                                 |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC                      | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852                                                                                                                                                                                                                                                                         |
| Internal Standard/PEM    |                                                                                                                                                                                                                                                                                                                                 |
| ICV/I.BLK                | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862                                                                                                                                                                                                 |
| Surrogate Standard       |                                                                                                                                                                                                                                                                                                                                 |
| MS/MSD Standard          |                                                                                                                                                                                                                                                                                                                                 |
| LCS Standard             |                                                                                                                                                                                                                                                                                                                                 |

| Sr# | SampleId     | ClientID     | Data File Name | Date-Time         | Comment                                                  | Operator | Status |
|-----|--------------|--------------|----------------|-------------------|----------------------------------------------------------|----------|--------|
| 1   | HEXANE       | HEXANE       | PP075731.D     | 13 Oct 2025 09:35 |                                                          | YPIAJ    | Ok     |
| 2   | AR1660CCC500 | AR1660CCC500 | PP075732.D     | 13 Oct 2025 09:52 | AR1260(4) high in 1st column&<br>TCMX high in 2nd column | YPIAJ    | Ok     |
| 3   | AR1242CCC500 | AR1242CCC500 | PP075733.D     | 13 Oct 2025 10:08 |                                                          | YPIAJ    | Ok,M   |
| 4   | AR1248CCC500 | AR1248CCC500 | PP075734.D     | 13 Oct 2025 10:26 |                                                          | YPIAJ    | Ok,M   |
| 5   | AR1254CCC500 | AR1254CCC500 | PP075735.D     | 13 Oct 2025 10:42 |                                                          | YPIAJ    | Ok,M   |
| 6   | I.BLK        | I.BLK        | PP075736.D     | 13 Oct 2025 11:14 |                                                          | YPIAJ    | Ok     |
| 7   | PB170064BL   | PB170064BL   | PP075737.D     | 13 Oct 2025 12:39 |                                                          | YPIAJ    | Ok     |
| 8   | PB170064BS   | PB170064BS   | PP075738.D     | 13 Oct 2025 13:12 | AR1016 & 1260 Recovery fail In<br>2nd column             | YPIAJ    | Not Ok |
| 9   | Q3323-01     | SED-01-0-2   | PP075739.D     | 13 Oct 2025 13:29 |                                                          | YPIAJ    | Ok     |
| 10  | Q3323-02     | SED-02-0-2   | PP075740.D     | 13 Oct 2025 13:45 |                                                          | YPIAJ    | Ok     |
| 11  | Q3323-03     | SED-03-0-2   | PP075741.D     | 13 Oct 2025 14:01 |                                                          | YPIAJ    | Ok     |
| 12  | Q3323-04     | SED-04-0-2   | PP075742.D     | 13 Oct 2025 14:17 |                                                          | YPIAJ    | Ok     |
| 13  | Q3323-05     | SED-05-0-2   | PP075743.D     | 13 Oct 2025 14:33 | TCMX high in 2nd column                                  | YPIAJ    | Ok     |
| 14  | Q3323-06     | SED-06-0-2   | PP075744.D     | 13 Oct 2025 14:50 |                                                          | YPIAJ    | Ok     |
| 15  | Q3323-07     | SED-07-0-2   | PP075745.D     | 13 Oct 2025 15:06 |                                                          | YPIAJ    | Ok     |
| 16  | Q3326-01     | TP-1         | PP075746.D     | 13 Oct 2025 15:22 |                                                          | YPIAJ    | Ok     |
| 17  | AR1660CCC500 | AR1660CCC500 | PP075747.D     | 13 Oct 2025 16:27 | DCB high in 2nd column                                   | YPIAJ    | Ok,M   |

Instrument ID: ECD\_P

**Daily Analysis Runlog For Sequence/QC Batch ID # PP101325**

|                          |                                                                                                                                                                                                                                                                                                                                 |                   |                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| Review By                | yogesh                                                                                                                                                                                                                                                                                                                          | Review On         | 10/13/2025 10:48:15 AM        |
| Supervise By             | mohammad                                                                                                                                                                                                                                                                                                                        | Supervise On      | 10/15/2025 1:15:02 AM         |
| SubDirectory             | PP101325                                                                                                                                                                                                                                                                                                                        | HP Acquire Method | HP Processing Method PP092325 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                                                                                                                                                                                                                                                                                                |                   |                               |
| Tune/Reschk              |                                                                                                                                                                                                                                                                                                                                 |                   |                               |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |                   |                               |
| CCC                      | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852                                                                                                                                                                                                                                                                         |                   |                               |
| Internal Standard/PEM    |                                                                                                                                                                                                                                                                                                                                 |                   |                               |
| ICV/I.BLK                | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862                                                                                                                                                                                                 |                   |                               |
| Surrogate Standard       |                                                                                                                                                                                                                                                                                                                                 |                   |                               |
| MS/MSD Standard          |                                                                                                                                                                                                                                                                                                                                 |                   |                               |
| LCS Standard             |                                                                                                                                                                                                                                                                                                                                 |                   |                               |

|    |              |              |            |                   |                                 |       |       |
|----|--------------|--------------|------------|-------------------|---------------------------------|-------|-------|
| 18 | AR1242CCC500 | AR1242CCC500 | PP075748.D | 13 Oct 2025 17:00 |                                 | YPIAJ | Ok,M  |
| 19 | AR1248CCC500 | AR1248CCC500 | PP075749.D | 13 Oct 2025 17:16 |                                 | YPIAJ | Ok,M  |
| 20 | AR1254CCC500 | AR1254CCC500 | PP075750.D | 13 Oct 2025 17:32 |                                 | YPIAJ | Ok,M  |
| 21 | I.BLK        | I.BLK        | PP075751.D | 13 Oct 2025 17:48 |                                 | YPIAJ | Ok    |
| 22 | PB170066BL   | PB170066BL   | PP075752.D | 13 Oct 2025 18:05 |                                 | YPIAJ | Ok    |
| 23 | PB170066BS   | PB170066BS   | PP075753.D | 13 Oct 2025 18:21 | pass in PSEG criteria           | YPIAJ | Ok    |
| 24 | PB170066BSD  | PB170066BSD  | PP075754.D | 13 Oct 2025 18:37 | pass in PSEG criteria           | YPIAJ | Ok    |
| 25 | Q3318-04     | 3436         | PP075755.D | 13 Oct 2025 18:53 | AR1260 hit                      | YPIAJ | Ok,M  |
| 26 | Q3330-01     | 2047         | PP075756.D | 13 Oct 2025 19:09 |                                 | YPIAJ | Ok,M  |
| 27 | Q3331-04     | RINGWOOD     | PP075757.D | 13 Oct 2025 19:26 |                                 | YPIAJ | Ok,M  |
| 28 | Q3332-02     | 100725-B     | PP075758.D | 13 Oct 2025 19:42 | DCB Low in both column          | YPIAJ | ReRun |
| 29 | Q3332-03     | 61125        | PP075759.D | 13 Oct 2025 19:58 | DCB Low in sec column           | YPIAJ | Ok,M  |
| 30 | Q3334-02     | 70825        | PP075760.D | 13 Oct 2025 20:14 | DCB Low in sec column           | YPIAJ | Ok,M  |
| 31 | AR1660CCC500 | AR1660CCC500 | PP075761.D | 13 Oct 2025 21:19 | DCB and TCMX high in 2nd column | YPIAJ | Ok,M  |
| 32 | AR1242CCC500 | AR1242CCC500 | PP075762.D | 13 Oct 2025 22:08 | TCMX high in 2nd column         | YPIAJ | Ok,M  |
| 33 | AR1248CCC500 | AR1248CCC500 | PP075763.D | 13 Oct 2025 22:24 | TCMX high in 2nd column         | YPIAJ | Ok,M  |
| 34 | AR1254CCC500 | AR1254CCC500 | PP075764.D | 13 Oct 2025 22:40 | DCB high in 2nd column          | YPIAJ | Ok,M  |
| 35 | I.BLK        | I.BLK        | PP075765.D | 13 Oct 2025 22:57 |                                 | YPIAJ | Ok    |
| 36 | DDT ANALOG   | DDT ANALOG   | PP075766.D | 13 Oct 2025 23:13 |                                 | YPIAJ | Ok    |

Instrument ID: ECD\_P

**Daily Analysis Runlog For Sequence/QC Batch ID # PP101325**

| Review By                | yogesh                                                                                                                                                                                                                                                                                                                                  | Review On         | 10/13/2025 10:48:15 AM        |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| Supervise By             | mohammad                                                                                                                                                                                                                                                                                                                                | Supervise On      | 10/15/2025 1:15:02 AM         |
| SubDirectory             | PP101325                                                                                                                                                                                                                                                                                                                                | HP Acquire Method | HP Processing Method PP092325 |
| STD. NAME                | STD REF.#                                                                                                                                                                                                                                                                                                                               |                   |                               |
| Tune/Reschk              |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,P<br>P24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP<br>24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |                   |                               |
| CCC                      | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852                                                                                                                                                                                                                                                                                 |                   |                               |
| Internal Standard/PEM    |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| ICV/I.BLK                | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862                                                                                                                                                                                                         |                   |                               |
| Surrogate Standard       |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| MS/MSD Standard          |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| LCS Standard             |                                                                                                                                                                                                                                                                                                                                         |                   |                               |

M : Manual Integration

Instrument ID: ECD\_P

**Daily Analysis Runlog For Sequence/QC Batch ID # PP101425**

|              |          |                   |                               |
|--------------|----------|-------------------|-------------------------------|
| Review By    | yogesh   | Review On         | 10/14/2025 10:07:08 AM        |
| Supervise By |          | Supervise On      |                               |
| SubDirectory | PP101425 | HP Acquire Method | HP Processing Method PP092325 |

| STD. NAME                | STD REF.#                                                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tune/Reschk              |                                                                                                                                                                                                                                                                                                                                 |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,PP24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |
| CCC                      | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852                                                                                                                                                                                                                                                                         |
| Internal Standard/PEM    |                                                                                                                                                                                                                                                                                                                                 |
| ICV/I.BLK                | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862                                                                                                                                                                                                 |
| Surrogate Standard       |                                                                                                                                                                                                                                                                                                                                 |
| MS/MSD Standard          |                                                                                                                                                                                                                                                                                                                                 |
| LCS Standard             |                                                                                                                                                                                                                                                                                                                                 |

| Sr# | SampleId     | ClientID     | Data File Name | Date-Time         | Comment                       | Operator | Status   |
|-----|--------------|--------------|----------------|-------------------|-------------------------------|----------|----------|
| 1   | HEXANE       | HEXANE       | PP075767.D     | 14 Oct 2025 09:04 |                               | YPIAJ    | Ok       |
| 2   | AR1660CCC500 | AR1660CCC500 | PP075768.D     | 14 Oct 2025 09:20 |                               | YPIAJ    | Ok       |
| 3   | AR1242CCC500 | AR1242CCC500 | PP075769.D     | 14 Oct 2025 09:45 |                               | YPIAJ    | Ok,NS    |
| 4   | AR1248CCC500 | AR1248CCC500 | PP075770.D     | 14 Oct 2025 10:01 |                               | YPIAJ    | Ok,NS    |
| 5   | AR1254CCC500 | AR1254CCC500 | PP075771.D     | 14 Oct 2025 10:17 |                               | YPIAJ    | Ok,NS    |
| 6   | I.BLK        | I.BLK        | PP075772.D     | 14 Oct 2025 10:33 |                               | YPIAJ    | Ok       |
| 7   | PB170078BL   | PB170078BL   | PP075773.D     | 14 Oct 2025 10:50 |                               | YPIAJ    | Ok       |
| 8   | PB170064BS   | PB170064BS   | PP075774.D     | 14 Oct 2025 11:06 |                               | YPIAJ    | Ok,NS    |
| 9   | Q3332-02RE   | 100725-B     | PP075775.D     | 14 Oct 2025 11:22 |                               | YPIAJ    | Confirms |
| 10  | Q3338-03     | 50698-WIPE   | PP075776.D     | 14 Oct 2025 11:38 | AR1248 Hit , Need 5x dilution | YPIAJ    | Dilution |
| 11  | Q3338-04     | 50699        | PP075777.D     | 14 Oct 2025 11:55 | AR1248 Hit , Need 5x dilution | YPIAJ    | Dilution |
| 12  | Q3338-03DL   | 50698-WIPEDL | PP075778.D     | 14 Oct 2025 12:11 | AR1248 Hit                    | YPIAJ    | Ok,NS    |
| 13  | Q3338-04DL   | 50699DL      | PP075779.D     | 14 Oct 2025 12:27 | AR1248 Hit                    | YPIAJ    | Ok,NS    |
| 14  | AR1660CCC500 | AR1660CCC500 | PP075780.D     | 14 Oct 2025 13:32 |                               | YPIAJ    | Ok,NS    |
| 15  | AR1242CCC500 | AR1242CCC500 | PP075781.D     | 14 Oct 2025 13:48 |                               | YPIAJ    | Ok,NS    |
| 16  | AR1248CCC500 | AR1248CCC500 | PP075782.D     | 14 Oct 2025 14:04 |                               | YPIAJ    | Ok,NS    |
| 17  | AR1254CCC500 | AR1254CCC500 | PP075783.D     | 14 Oct 2025 14:20 |                               | YPIAJ    | Ok,NS    |
| 18  | I.BLK        | I.BLK        | PP075784.D     | 14 Oct 2025 14:37 |                               | YPIAJ    | Ok       |

Instrument ID: ECD\_P

**Daily Analysis Runlog For Sequence/QCBatch ID # PP101425**

| Review By                | yogesh                                                                                                                                                                                                                                                                                                                                  | Review On         | 10/14/2025 10:07:08 AM        |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| Supervise By             |                                                                                                                                                                                                                                                                                                                                         | Supervise On      |                               |
| SubDirectory             | PP101425                                                                                                                                                                                                                                                                                                                                | HP Acquire Method | HP Processing Method PP092325 |
| STD. NAME                | STD REF.#                                                                                                                                                                                                                                                                                                                               |                   |                               |
| Tune/Reschk              |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| Initial Calibration Stds | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24823,PP24824,PP24825,PP24826,PP24827,PP24828,PP24829,P<br>P24830,PP24831,PP24832,PP24833,PP24834,PP24835,PP24836,PP24837,PP24838,PP24839,PP24840,PP24841,PP24842,PP24843,PP24844,PP<br>24845,PP24846,PP24847,PP24848,PP24849,PP24850,PP24851,PP24852,PP24853,PP24854 |                   |                               |
| CCC                      | PP24824,PP24828,PP24832,PP24836,PP24840,PP24844,PP24852                                                                                                                                                                                                                                                                                 |                   |                               |
| Internal Standard/PEM    |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| ICV/I.BLK                | PP24815,PP24816,PP24817,PP24818,PP24819,PP24820,PP24821,PP24822,PP24855,PP24856,PP24857,PP24858,PP24859,PP24860,PP24861,PP24862                                                                                                                                                                                                         |                   |                               |
| Surrogate Standard       |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| MS/MSD Standard          |                                                                                                                                                                                                                                                                                                                                         |                   |                               |
| LCS Standard             |                                                                                                                                                                                                                                                                                                                                         |                   |                               |

M : Manual Integration