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| Traveler Title | VTA RF Cavity Test |
| Traveler Abstract | Standard Data Acquisition for testing of cavities in the Vertical Test Area (VTA) |
| Traveler ID | SRFRD-VTA-CAV-VTRF-RFD |
| Traveler Revision  | R1 |
| Traveler Author | SUBA |
| Traveler Date | 6-Mar-23 |
| NCR Informative Emails |  |
| NCR Dispositioners |  |
| D3 Emails |  |
| Approval Names |  |  |  |  |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer | Project Manager |  |

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| References | List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents. |
| See SOP posted at workcenter | **Automated Testing Spreadsheet:** | [Automated Cavity VTA RF Test Template Spreadsheet](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-98189/SpreadsheetTemplate%20for%20STP-CAV-VTRF_29Aug2016.xlsm) | [VTA Operation Procedures: CP-STP-CAV-VTA-OPS](https://jlabdoc.jlab.org/docushare/dsweb/View/Collection-160) |  |
| [VIEW Cavity Type Spreadsheet](https://pansophy.jlab.org/pansophy/Admin/VIEW_CavType.cfm) | **Manual testing Spreasheet:** | [Manual Cavity VTA RF Test Template Spreadsheet](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-82195/Cavity%20RF%20Test%20Template_013114.xlsx)  |  |  |

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| Revision Note |  |
| R1 | Initial release of this Traveler. Based on USLARP-CAV-VTRF-RFD-R2 |

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| **Standard VTA RF Cavity Test Traveler** |
| **SETUP** |
| [[CAVSN]] <<CAVSN>> | [[TestOperator]] <<VTAOPS>> | Test Purpose Comment (Include recent history note):[[TestPurpose]] <<COMMENT>> |
| [[TestDate]] <<TIMESTAMP>> |
| [[Dewar]] {{3,4,5,6,7,8}} <<SELECT>> |
| [[VTATSSN]] <<VTATSSN>> |
| **Cavity Parameters**[[CavityType]] <<TEXT>>[[NumOfCells]] <<INTEGER>>[[Freq]] <<FLOAT>>[[CavLength]] <<FLOAT>>[[Kappa]] <<FLOAT>>[[EpVsEacc]] <<FLOAT>>[[BpVsEacc]] <<FLOAT>>[[GeoFactor]] <<FLOAT>> |
| **TEST** |
| [[PrimaryTemperature]] <<FLOAT>> |

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|  | **Voltage Reflected** | **Qo** | **Rad** |
| **Initial Rad Onset > 0.03 mrem/hr** | [[VRadInit]] <<SCINOT>>[[InitFEFree]] <<CHECKBOX>>[[If FEFree checked, make VRad 0]] <<NOTE>> | [[QoRadInit]] <<SCINOT>> | > 0.03mrem/hr |
| **Final Rad Onset = 0.03 mrem/hr** | [[VRadFinal]] <<SCINOT>>[[FinalFEFree]] <<CHECKBOX>>[[If FEFree checked, make VRad 0]] <<NOTE>> | [[QoRadFinal]] <<SCINOT>> | = 0.03 mrem/hr |
| **Benchmark Field** | [[VBenchmark]] <<SCINOT>> | [[QoBenchmark]] <<SCINOT>> | [[RadBenchmark]] <<SCINOT>> mrem/hr |
| **MAX Field** | [[VMax]] <<SCINOT>> | [[QoMax]] <<SCINOT>> | [[RadMax]] <<SCINOT>> mrem/hr |

 |
| [[PrimaryFrequency]] <<FLOAT>> |
| **RESULTS** |
| **Manual Testing Data Files:** [[ManualSpreadsheet]] <<FILEUPLOAD>> | [[LorentzCoeff]] <<FLOAT>>[[ResultsComment]] <<COMMENT>> |
| **Automated Testing Data Files:**[[RawDataFile]] <<FILEUPLOAD>>[[ProcessedSpreadsheet]] <<FILEUPLOAD>> |
| **Graphs:**  |
| [[QvsE]] <<FILEUPLOAD>> | [[FvsE2]] <<FILEUPLOAD>> | [[RADvsE]] <<FILEUPLOAD>> | [[OtherFiles]] <<FILEUPLOAD>> |