



## 15387 - NUV Spectroscopic Sensitivity Monitoring

Cycle: 25, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Joanna Taylor (PI) (Contact)</b>	<b>Space Telescope Science Institute</b>	<b>jotaylor@stsci.edu</b>

### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
L1	(1) WD1057+719	COS/NUV	1	20-Oct-2017 20:00:49.0	yes
L2	(1) WD1057+719	COS/NUV	1	20-Oct-2017 20:00:51.0	yes
M1	(2) G191B2B	COS/NUV	2	20-Oct-2017 20:00:53.0	yes
M2	(2) G191B2B	COS/NUV	2	20-Oct-2017 20:00:56.0	yes

6 Total Orbits Used

### ABSTRACT

Monitor the sensitivity of each NUV grating to detect any changes due to contamination or other causes. Observations execute twice a year (July and January). In Cycle 24, additional cenwaves were added for the medium-resolution gratings (G185M/2010, G285M/2850, G225M/2306 and G225M/2410). These additional cenwaves are also observed in Cycle 25.

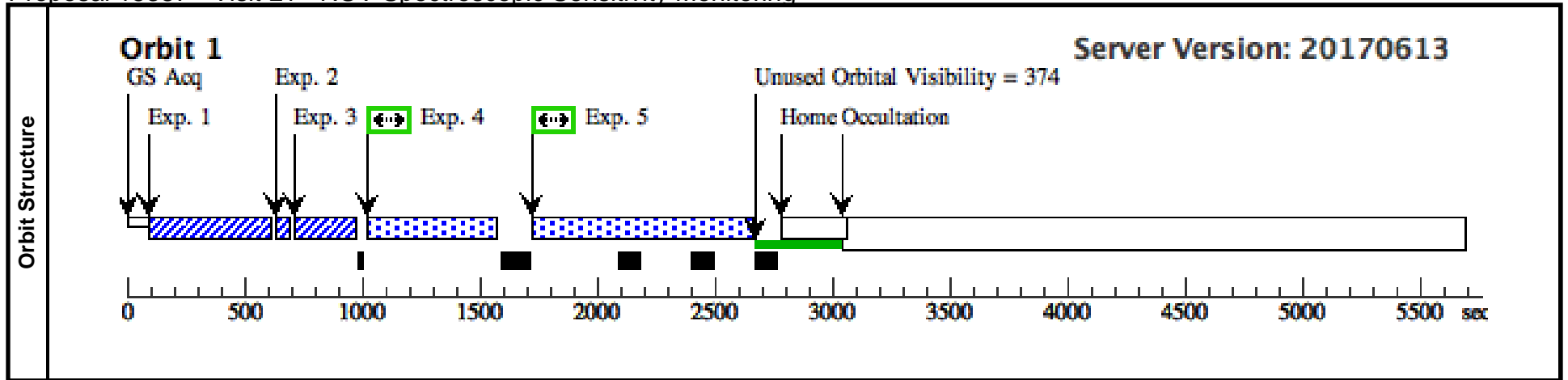
### OBSERVING DESCRIPTION

Obtain exposures in all NUV gratings -- G230L, G185M, G225M, and G285M -- 2 times a year in order to measure the TDS. The first two gratings have stable behavior, while the last two are experiencing steady sensitivity declines. L visits are one orbit each, while M visits are 2 orbits each for a total of 6 orbits. This was increased from 4 to 6 orbits in Cycle 24 because 4 extra cenwaves were added to the M gratings.

# Proposal 15387 - Visit L1 - NUV Spectroscopic Sensitivity Monitoring

Sat Oct 21 00:00:57 GMT 2017

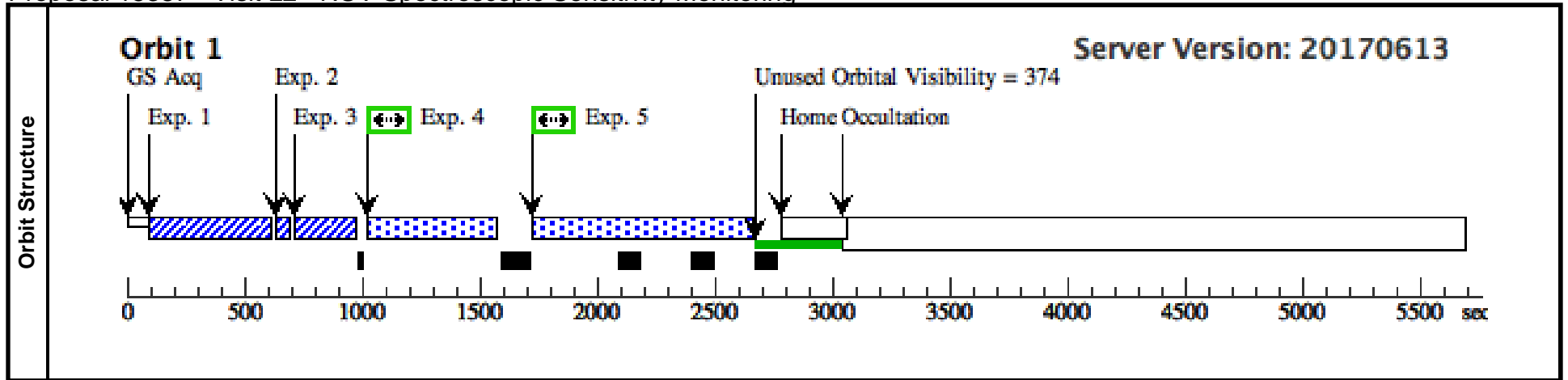
Visit	<b>Proposal 15387, Visit L1</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 20-JAN-2018:00:00:00 AND 20-FEB-2018:00:00:00																																																																						
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# Proposal 15387 - Visit L2 - NUV Spectroscopic Sensitivity Monitoring

Sat Oct 21 00:00:57 GMT 2017

Visit	<b>Proposal 15387, Visit L2</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 26-JUL-2018:00:00:00 AND 26-AUG-2018:00:00:00																																																																					
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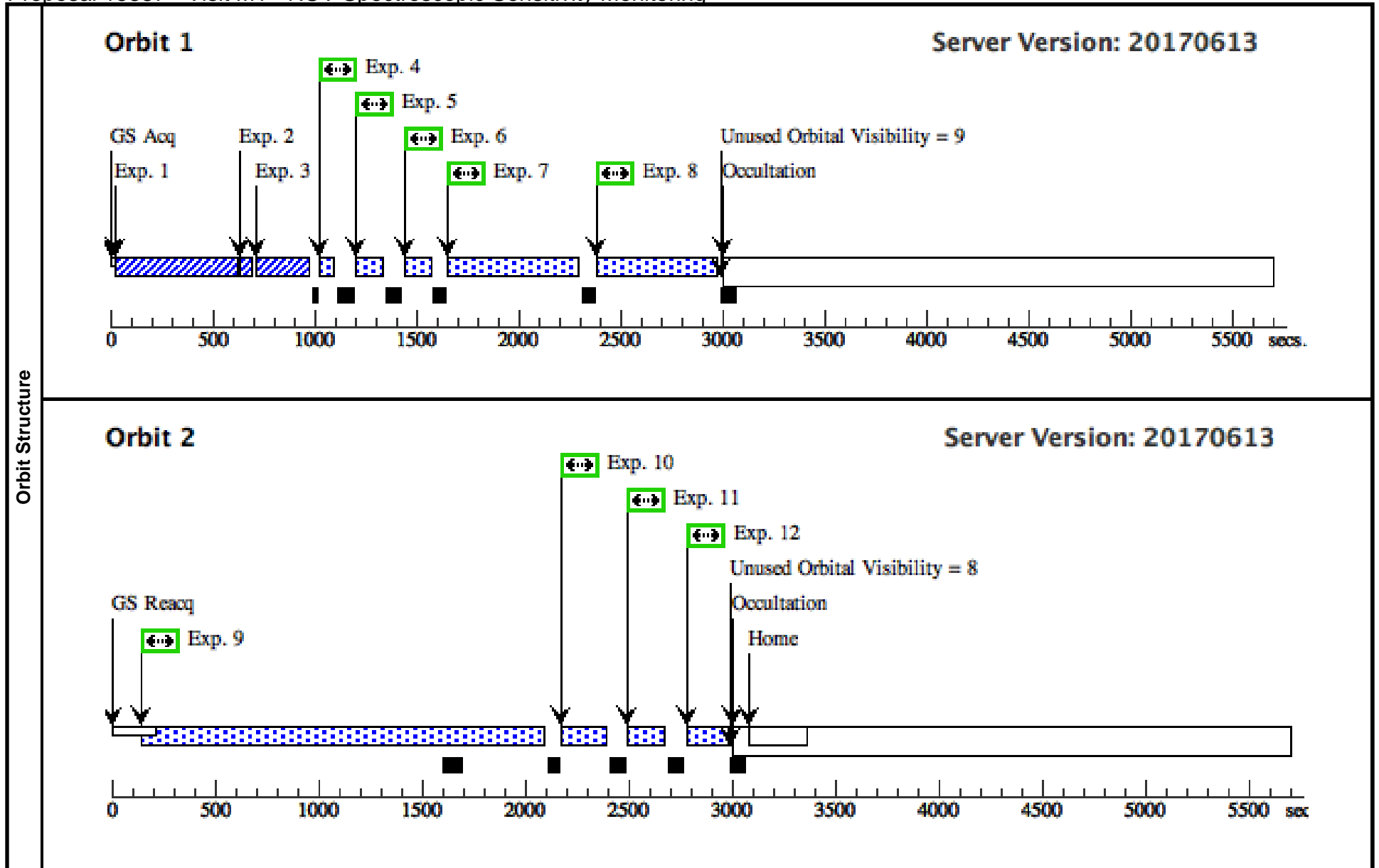
# Proposal 15387 - Visit M1 - NUV Spectroscopic Sensitivity Monitoring

Sat Oct 21 00:00:57 GMT 2017

<b>Visit</b>	<b>Proposal 15387, Visit M1</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 20-JAN-2018:00:00:00 AND 20-FEB-2018:00:00:00					
<b>Diagnostics</b>	(Visit M1) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(2)	G191B2B	RA: 05 05 30.6060 (76.3775250d) Dec: +52 49 52.74 (52.83132d) Equinox: J2000	Proper Motion RA: 0.00071 sec of time/yr Proper Motion Dec: -0.0907 arcsec/yr Epoch of Position: 1991.25	V=11.79	Reference Frame: ICRS
	<i>Comments: coords, PM from Hipparcos</i> <i>Extended=NO</i>					

Proposal 15387 - Visit M1 - NUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	G185M - A CQ/SEARC H (COS.sa.102 6877)	(2) G191B2B	COS/NUV, ACQ/SEARCH, PSA	G185M 2010 A	STEP-SIZE=1.767; SCAN-SIZE=3		1.0 Secs (1 Secs) [==>]	[1]
	2	G185M - A CQ/PEAKX D (COS.sa.102 6879)	(2) G191B2B	COS/NUV, ACQ/PEAKXD, PSA	G185M 2010 A			1.0 Secs (1 Secs) [==>]	[1]
	3	G185M - A CQ/PEAKD (COS.sa.102 6877)	(2) G191B2B	COS/NUV, ACQ/PEAKD, PSA	G185M 2010 A	STEP-SIZE=0.6; NUM-POS=9.0		1.0 Secs (1 Secs) [==>]	[1]
	4	G185M - 20 10A (COS.sp.102 6887)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 2010 A	BUFFER-TIME=80; FP-POS=3		56 Secs (56 Secs) [==>]	[1]
	5	G185M - 19 21 A (COS.sp.102 6891)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=80; FP-POS=3		47.0 Secs (47 Secs) [==>]	[1]
	6	G185M - 17 86A (COS.sp.102 6892)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1786 A	BUFFER-TIME=80; FP-POS=3		41 Secs (41 Secs) [==>]	[1]
	7	G285M - 28 50 A (COS.sp.103 0324)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 2850 A	BUFFER-TIME=10 30; FP-POS=3		520 Secs (520 Secs) [==>]	[1]
	<i>Comments: For ETC release 25.2, SNR predictions are significantly underestimated for G285M observations due to an inaccurate extrapolated TDS model. The TDSTAB and throughput files will be updated in the 26.1 release to accurately reflect the true trends. For now, the SNR that will actually be achieved is sufficient to perform TDS analysis.</i>								
	8	G285M - 26 17 A (COS.sp.103 0325)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 2617 A	BUFFER-TIME=89 2; FP-POS=3		505 Secs (505 Secs) [==>]	[1]
	<i>Comments: For ETC release 25.2, SNR predictions are significantly underestimated for G285M observations due to an inaccurate extrapolated TDS model. The TDSTAB and throughput files will be updated in the 26.1 release to accurately reflect the true trends. For now, the SNR that will actually be achieved is sufficient to perform TDS analysis.</i>								
	9	G285M - 30 94 A (COS.sp.103 0326)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 3094 A	BUFFER-TIME=13 78; FP-POS=3		1862 Secs (1862 Secs) [==>]	[2]
	<i>Comments: For ETC release 25.2, SNR predictions are significantly underestimated for G285M observations due to an inaccurate extrapolated TDS model. The TDSTAB and throughput files will be updated in the 26.1 release to accurately reflect the true trends. For now, the SNR that will actually be achieved is sufficient to perform TDS analysis.</i>								
10	G225M - 24 10 A (COS.sp.102 6905)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2410 A	BUFFER-TIME=15 7; FP-POS=3		101.0 Secs (101 Secs) [==>]	[2]	
11	G225M - 23 06A (COS.sp.102 6906)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2306 A	BUFFER-TIME=15 6; FP-POS=3		96 Secs (96 Secs) [==>]	[2]	
12	G225M - 21 86 A (COS.sp.102 6907)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2186 A	BUFFER-TIME=17 8; FP-POS=3		112.0 Secs (112 Secs) [==>]	[2]	





# Proposal 15387 - Visit M2 - NUV Spectroscopic Sensitivity Monitoring

Sat Oct 21 00:00:57 GMT 2017

<b>Visit</b>	<p><b>Proposal 15387, Visit M2</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 26-JUL-2018:00:00:00 AND 26-AUG-2018:00:00:00</p>					
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Proposal 15387 - Visit M2 - NUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	G185M - A CQ/SEARC H (COS.sa.102 6877)	(2) G191B2B	COS/NUV, ACQ/SEARCH, PSA	G185M 2010 A	STEP-SIZE=1.767; SCAN-SIZE=3		1.0 Secs (1 Secs) [==>]	[1]
	2	G185M - A CQ/PEAKX D (COS.sa.102 6879)	(2) G191B2B	COS/NUV, ACQ/PEAKXD, PSA	G185M 2010 A			1.0 Secs (1 Secs) [==>]	[1]
	3	G185M - A CQ/PEAKD (COS.sa.102 6877)	(2) G191B2B	COS/NUV, ACQ/PEAKD, PSA	G185M 2010 A	STEP-SIZE=0.6; NUM-POS=9.0		1.0 Secs (1 Secs) [==>]	[1]
	4	G185M - 20 10A (COS.sp.102 6887)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 2010 A	BUFFER-TIME=80; FP-POS=3		56 Secs (56 Secs) [==>]	[1]
	5	G185M - 19 21 A (COS.sp.102 6891)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=80; FP-POS=3		47.0 Secs (47 Secs) [==>]	[1]
	6	G185M - 17 86A (COS.sp.102 6892)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1786 A	BUFFER-TIME=80; FP-POS=3		41 Secs (41 Secs) [==>]	[1]
	7	G285M - 28 50 A (COS.sp.103 0324)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 2850 A	BUFFER-TIME=10 30; FP-POS=3		520 Secs (520 Secs) [==>]	[1]
	<i>Comments: For ETC release 25.2, SNR predictions are significantly underestimated for G285M observations due to an inaccurate extrapolated TDS model. The TDSTAB and throughput files will be updated in the 26.1 release to accurately reflect the true trends. For now, the SNR that will actually be achieved is sufficient to perform TDS analysis.</i>								
	8	G285M - 26 17 A (COS.sp.103 0325)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 2617 A	BUFFER-TIME=89 2; FP-POS=3		505 Secs (505 Secs) [==>]	[1]
	<i>Comments: For ETC release 25.2, SNR predictions are significantly underestimated for G285M observations due to an inaccurate extrapolated TDS model. The TDSTAB and throughput files will be updated in the 26.1 release to accurately reflect the true trends. For now, the SNR that will actually be achieved is sufficient to perform TDS analysis.</i>								
	9	G285M - 30 94 A (COS.sp.103 0326)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 3094 A	BUFFER-TIME=13 78; FP-POS=3		1862 Secs (1862 Secs) [==>]	[2]
	<i>Comments: For ETC release 25.2, SNR predictions are significantly underestimated for G285M observations due to an inaccurate extrapolated TDS model. The TDSTAB and throughput files will be updated in the 26.1 release to accurately reflect the true trends. For now, the SNR that will actually be achieved is sufficient to perform TDS analysis.</i>								
10	G225M - 24 10 A (COS.sp.102 6905)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2410 A	BUFFER-TIME=15 7; FP-POS=3		101.0 Secs (101 Secs) [==>]	[2]	
11	G225M - 23 06A (COS.sp.102 6906)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2306 A	BUFFER-TIME=15 6; FP-POS=3		96 Secs (96 Secs) [==>]	[2]	
12	G225M - 21 86 A (COS.sp.102 6907)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2186 A	BUFFER-TIME=17 8; FP-POS=3		112.0 Secs (112 Secs) [==>]	[2]	

