17121 - Probing the Gas in and around Local Galaxies Mapped with Integral Field Spectroscopy

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	***Institution***
Dr. Varsha Purushottam Kulkarni (PI) (Contact)	**University of South Carolina**
Dr. David A. Wake (CoI)	University of North Carolina Asheville
Dr. Britt Lundgren (CoI)	University of North Carolina Asheville
Dr. Celine Peroux (CoI) (ESA Member)	European Southern Observatory - Germany
Dr. Matthew A. Bershady (CoI)	University of Wisconsin - Madison
Arjun Karki (CoI)	University of South Carolina Research Foundation

VISITS

Visit	***Targets used in Visit***	***Configurations used in Visit***	***Orbits Used***	***Last Orbit Planner Run***	***OP Current with Visit?***
01	(1) J0924+0244	COS/FUV COS/NUV	3	08-Jan-2025 13:00:15.0	yes
28	(1) J0924+0244	COS/FUV COS/NUV	3	08-Jan-2025 13:00:16.0	yes
02	(1) J0924+0244	COS/FUV COS/NUV	2	08-Jan-2025 13:00:16.0	yes
03	(2) J0957+1737	COS/FUV COS/NUV	2	08-Jan-2025 13:00:17.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
26	(2) J0957+1737	COS/FUV COS/NUV	1	08-Jan-2025 13:00:18.0	yes
04	(2) J0957+1737	COS/FUV COS/NUV	2	08-Jan-2025 13:00:18.0	yes
05	(3) J1044+0158	COS/FUV COS/NUV	3	08-Jan-2025 13:00:19.0	yes
24	(3) J1044+0158	COS/FUV COS/NUV	3	08-Jan-2025 13:00:20.0	yes
29	(3) J1044+0158	COS/FUV COS/NUV	3	08-Jan-2025 13:00:21.0	yes
06	(4) J2143+0047	COS/FUV COS/NUV	2	08-Jan-2025 13:00:22.0	yes
07	(4) J2143+0047	COS/FUV COS/NUV	2	08-Jan-2025 13:00:23.0	yes
08	(5) J1255+2859	COS/FUV COS/NUV	3	08-Jan-2025 13:00:23.0	yes
20	(5) J1255+2859	COS/FUV COS/NUV	3	08-Jan-2025 13:00:24.0	yes
09	(5) J1255+2859	COS/FUV COS/NUV	3	08-Jan-2025 13:00:25.0	yes
21	(5) J1255+2859	COS/FUV COS/NUV	3	08-Jan-2025 13:00:26.0	yes
10	(6) J1335+2549	COS/FUV COS/NUV	3	08-Jan-2025 13:00:27.0	yes
22	(6) J1335+2549	COS/FUV COS/NUV	3	08-Jan-2025 13:00:27.0	yes
11	(7) J1511+5203	COS/FUV COS/NUV	3	08-Jan-2025 13:00:28.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
12	(7) J1511+5203	COS/FUV COS/NUV	2	08-Jan-2025 13:00:29.0	yes
27	(7) J1511+5203	COS/FUV COS/NUV	2	08-Jan-2025 13:00:30.0	yes
13	(8) J0904+2819	COS/FUV COS/NUV	3	08-Jan-2025 13:00:31.0	yes
25	(8) J0904+2819	COS/FUV COS/NUV	3	08-Jan-2025 13:00:31.0	yes
14	(8) J0904+2819	COS/FUV COS/NUV	3	08-Jan-2025 13:00:32.0	yes
15	(9) J1324+3126	COS/FUV COS/NUV	3	08-Jan-2025 13:00:33.0	yes
16	(9) J1324+3126	COS/FUV COS/NUV	3	08-Jan-2025 13:00:34.0	yes
17	(10) J1714+5758	COS/FUV COS/NUV	2	08-Jan-2025 13:00:35.0	yes
18	(11) J1258+2753	COS/FUV COS/NUV	3	08-Jan-2025 13:00:36.0	yes
19	(11) J1258+2753	COS/FUV COS/NUV	3	08-Jan-2025 13:00:36.0	yes
23	(11) J1258+2753	COS/FUV COS/NUV	1	08-Jan-2025 13:00:37.0	yes

75 Total Orbits Used

ABSTRACT

An important question in understanding galaxy evolution is how the gas in the galactic disk, bulge and halo couples with the circumgalactic medium (CGM). Here we propose to study the multi-phase gas in and around 18 local galaxies (z<0.1) whose inner regions have been mapped in exquisite detail with integral field spectroscopy (IFS). To probe the warm and cool gas, we propose COS UV spectroscopy of background AGNs whose sight

lines pass through the halos of the targeted galaxies. Our observations will allow us to combine the wealth of detailed maps already available for these galaxies from MaNGA with the physical diagnostics (e.g., metallicity, ionization, kinematics) of the multiphase gas that can be inferred robustly only from UV absorption-line spectroscopy. Our goals are to (1) measure element abundances in the cool gas from absorption lines and compare to ionized gas metallicity from MaNGA; (2) measure the composition of the warm, ionized gas and examine whether its velocity is sufficient to escape the galaxy; (3) determine whether gas metallicity and galaxy-absorber azimuthal angle are correlated (e.g. whether lower metallicity is seen along the major axis); (4) compare the cool gas kinematics with ionized gas kinematics, e.g. does the cool gas lag behind the galaxy's mid plane as the ionized gas does. Our study will shed light on how the inner and outer regions of galaxies interact; e.g., how gas, metals, and angular momentum are exchanged between different regions. Our program will greatly enhance the power of the MaNGA data for studies of galaxy formation and evolution. HST is essential because of the need for UV spectroscopy.

OBSERVING DESCRIPTION

We will use the COS G130M 1222 and/or 1291 settings to cover the absorption lines of interest. All of the targets are background quasars or AGNs probing foreground galaxies. Thus the targets of interest are point sources in most cases. (In one case, the galaxy whose AGN is to be observed is listed as an extended source, but even in this case, we are only interested in the AGN point source which is the brightest part of the galaxy, and this AGN needs to be centered in the aperture.)

The ICRS coordinate uncertainties (adopted from Simbad) are < 0.1". Therefore target acquisitions are requested using the ACQ/IMAGE mode. The NUV/MIRRORB is assumed, to be safe, for all targets. Target acquisition calculations are performed assuming point source targets for s/n=20 to 40 (generally 25 or 30).

As per COS 2025 policies, FP-POS=1,2,3,4 are used for G130M/1222 and FP-POS=3,4 are used for G130M/1291.

Visit

Proposal 17121, Visit 01, failed Wed Jan 08 18:00:37 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 01) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 01) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J0924+0244	RA: 09 24 0.0832 (141.0003467d) Dec: +02 44 8.52 (2.73570d) Equinox: J2000	Proper Motion RA: 0.293 mas/yr Proper Motion Dec: -0.059 mas/yr Epoch of Position: 2000 Redshift: 0.348704	V=16.946 FUV=18.944, NUV=18.607	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810172)	(1) J0924+0244	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				78 Secs (78 Secs) *[==>]*	*[1]*
2	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1082 Secs (1020 Secs) *[==>1020.0 Secs]*	*[1]*
3	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1082 Secs (1020 Secs) *[==>1020.0 Secs]*	*[1]*
4	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1281 Secs (1218 Secs) *[==>1218.0 Secs]*	*[2]*
5	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1281 Secs (1218 Secs) *[==>1218.0 Secs]*	*[2]*
6	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1281 Secs (1218 Secs) *[==>1218.0 Secs]*	*[3]*
7	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1281 Secs (1218 Secs) *[==>1218.0 Secs]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Duplicate of failed visit 1 (28), implementation Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Duplicate of failed visit 1 (28)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Duplicate of failed visit 1 (28)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J0924+0244	RA: 09 24 0.0832 (141.0003467d) Dec: +02 44 8.52 (2.73570d) Equinox: J2000	Proper Motion RA: 0.293 mas/yr Proper Motion Dec: -0.059 mas/yr Epoch of Position: 2000 Redshift: 0.348704	V=16.946 FUV=18.944, NUV=18.607	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810172)	(1) J0924+0244	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				78 Secs (78 Secs) *[==>]*	*[1]*
2	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1082 Secs (1020 Secs) *[==>1020.0 Secs]*	*[1]*
3	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1082 Secs (1020 Secs) *[==>1020.0 Secs]*	*[1]*
4	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1281 Secs (1218 Secs) *[==>1218.0 Secs]*	*[2]*
5	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1281 Secs (1218 Secs) *[==>1218.0 Secs]*	*[2]*
6	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1281 Secs (1218 Secs) *[==>1218.0 Secs]*	*[3]*
7	(COS.sp.1814047)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5161; FLASH=YES; SEGMENT=BOTH			1281 Secs (1218 Secs) *[==>1218.0 Secs]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 02, completed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J0924+0244	RA: 09 24 0.0832 (141.0003467d) Dec: +02 44 8.52 (2.73570d) Equinox: J2000	Proper Motion RA: 0.293 mas/yr Proper Motion Dec: -0.059 mas/yr Epoch of Position: 2000 Redshift: 0.348704	V=16.946 FUV=18.944, NUV=18.607	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810172)	(1) J0924+0244	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				78 Secs (78 Secs) *[==>]*	*[1]*
2	(COS.sp.1814041)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=14367; FLASH=YES; SEGMENT=BOTH			1080 Secs (1080 Secs) *[==>]*	*[1]*
3	(COS.sp.1814041)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=14367; FLASH=YES; SEGMENT=BOTH			1080 Secs (1080 Secs) *[==>]*	*[1]*
4	(COS.sp.1814041)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14367; FLASH=YES; SEGMENT=BOTH			1290 Secs (1290 Secs) *[==>]*	*[2]*
5	(COS.sp.1814041)	(1) J0924+0244	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14367; FLASH=YES; SEGMENT=BOTH			1290 Secs (1290 Secs) *[==>]*	*[2]*

Orbit Structure

Visit

Proposal 17121, Visit 03, failed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J0957+1737 Alt Name1: 2MASSJ09570217+1737129	RA: 09 57 2.1834 (149.2590975d) Dec: +17 37 12.93 (17.62026d) Equinox: J2000	Proper Motion RA: -0.028 mas/yr Proper Motion Dec: 0.015 mas/yr Epoch of Position: 2000 Redshift: 0.742588	V=17.332 FUV=18.701, NUV=17.835	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810164)	(2) J0957+1737	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				55 Secs (55 Secs) *[==>]*	***[1]***
2	(COS.sp.1814002)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=12695; FLASH=YES; SEGMENT=BOTH			1110 Secs (1110 Secs) *[==>]*	***[1]***
3	(COS.sp.1814002)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=12695; FLASH=YES; SEGMENT=BOTH			1110 Secs (1110 Secs) *[==>]*	***[1]***
4	(COS.sp.1814002)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=12695; FLASH=YES; SEGMENT=BOTH			1297 Secs (1297 Secs) *[==>]*	***[2]***
5	(COS.sp.1814002)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=12695; FLASH=YES; SEGMENT=BOTH			1297 Secs (1297 Secs) *[==>]*	***[2]***

Orbit Structure

Visit

Proposal 17121, Duplicate of failed part of visit 3 (1 orbit) (26), completed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Duplicate of failed part of visit 3 (1 orbit) (26)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J0957+1737 Alt Name1: 2MASSJ09570217+1737129	RA: 09 57 2.1834 (149.2590975d) Dec: +17 37 12.93 (17.62026d) Equinox: J2000	Proper Motion RA: -0.028 mas/yr Proper Motion Dec: 0.015 mas/yr Epoch of Position: 2000 Redshift: 0.742588	V=17.332 FUV=18.701, NUV=17.835	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810164)	(2) J0957+1737	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				55 Secs (55 Secs) *[==>]*	*[1]*
2	(COS.sp.1814002)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=12695; FLASH=YES; SEGMENT=BOTH			1050 Secs (1050 Secs) *[==>]*	*[1]*
3	(COS.sp.1814002)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=12695; FLASH=YES; SEGMENT=BOTH			1050 Secs (1050 Secs) *[==>]*	*[1]*

Orbit Structure

Visit

Proposal 17121, Visit 04, completed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 04) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J0957+1737 Alt Name1: 2MASSJ09570217+1737129	RA: 09 57 2.1834 (149.2590975d) Dec: +17 37 12.93 (17.62026d) Equinox: J2000	Proper Motion RA: -0.028 mas/yr Proper Motion Dec: 0.015 mas/yr Epoch of Position: 2000 Redshift: 0.742588	V=17.332 FUV=18.701, NUV=17.835	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810164)	(2) J0957+1737	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				55 Secs (55 Secs) *[==>]*	***[1]***
2	(COS.sp.1814014)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4895; FLASH=YES; SEGMENT=BOTH			1108 Secs (1108 Secs) *[==>]*	***[1]***
3	(COS.sp.1814014)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4895; FLASH=YES; SEGMENT=BOTH			1108 Secs (1108 Secs) *[==>]*	***[1]***
4	(COS.sp.1814014)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4895; FLASH=YES; SEGMENT=BOTH			1288 Secs (1288 Secs) *[==>]*	***[2]***
5	(COS.sp.1814014)	(2) J0957+1737	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4895; FLASH=YES; SEGMENT=BOTH			1288 Secs (1288 Secs) *[==>]*	***[2]***

Orbit Structure

Visit

Proposal 17121, Visit 05, failed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 05) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J1044+0158	RA: 10 44 11.4331 (161.0476379d) Dec: +01 58 50.48 (1.98069d) Equinox: J2000	Proper Motion RA: -0.028 mas/yr Proper Motion Dec: -0.085 mas/yr Epoch of Position: 2000 Redshift: 1.010495	V=16.33 FUV=18.373, NUV=17.371	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810257)	(3) J1044+0158	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				63 Secs (63 Secs) *[==>]*	*[1]*
2	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1095 Secs (1095 Secs) *[==>]*	*[1]*
3	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1095 Secs (1095 Secs) *[==>]*	*[1]*
4	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1290 Secs) *[==>]*	*[2]*
5	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1290 Secs) *[==>]*	*[2]*
6	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1290 Secs) *[==>]*	*[3]*
7	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1290 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Duplicate of failed visit 5 (24), failed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Duplicate of failed visit 5 (24)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J1044+0158	RA: 10 44 11.4331 (161.0476379d) Dec: +01 58 50.48 (1.98069d) Equinox: J2000	Proper Motion RA: -0.028 mas/yr Proper Motion Dec: -0.085 mas/yr Epoch of Position: 2000 Redshift: 1.010495	V=16.33 FUV=18.373, NUV=17.371	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810257)	(3) J1044+0158	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				63 Secs (63 Secs) *[==>]*	*[1]*
2	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1095 Secs (1033 Secs) *[==>1033.0 Secs]*	*[1]*
3	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1095 Secs (1033 Secs) *[==>1033.0 Secs]*	*[1]*
4	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1228 Secs) *[==>1228.0 Secs]*	*[2]*
5	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1228 Secs) *[==>1228.0 Secs]*	*[2]*
6	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1228 Secs) *[==>1228.0 Secs]*	*[3]*
7	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1228 Secs) *[==>1228.0 Secs]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Duplicate of failed visit 24 (29) Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Duplicate of failed visit 24 (29)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J1044+0158	RA: 10 44 11.4331 (161.0476379d) Dec: +01 58 50.48 (1.98069d) Equinox: J2000	Proper Motion RA: -0.028 mas/yr Proper Motion Dec: -0.085 mas/yr Epoch of Position: 2000 Redshift: 1.010495	V=16.33 FUV=18.373, NUV=17.371	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810257)	(3) J1044+0158	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				63 Secs (63 Secs) *[==>]*	*[1]*
2	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1095 Secs (1033 Secs) *[==>1033.0 Secs]*	*[1]*
3	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1095 Secs (1033 Secs) *[==>1033.0 Secs]*	*[1]*
4	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1228 Secs) *[==>1228.0 Secs]*	*[2]*
5	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1228 Secs) *[==>1228.0 Secs]*	*[2]*
6	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1228 Secs) *[==>1228.0 Secs]*	*[3]*
7	(COS.sp.1814058)	(3) J1044+0158	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=11807; FLASH=YES; SEGMENT=BOTH			1290 Secs (1228 Secs) *[==>1228.0 Secs]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 06, completed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J2143+0047	RA: 21 43 13.9794 (325.8082475d) Dec: +00 47 15.00 (.78750d) Equinox: J2000	Proper Motion RA: -0.045 mas/yr Proper Motion Dec: -0.043 mas/yr Epoch of Position: 2000 Redshift: 0.493893	V=17.779 FUV=18.731, NUV=18.393	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810176)	(4) J2143+0047	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				92 Secs (92 Secs) *[==>]*	***[1]***
2	(COS.sp.1814052)	(4) J2143+0047	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=13419; FLASH=YES; SEGMENT=BOTH			1066 Secs (1066 Secs) *[==>]*	***[1]***
3	(COS.sp.1814052)	(4) J2143+0047	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=13419; FLASH=YES; SEGMENT=BOTH			1066 Secs (1066 Secs) *[==>]*	***[1]***
4	(COS.sp.1814052)	(4) J2143+0047	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=13419; FLASH=YES; SEGMENT=BOTH			1290 Secs (1290 Secs) *[==>]*	***[2]***
5	(COS.sp.1814052)	(4) J2143+0047	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=13419; FLASH=YES; SEGMENT=BOTH			1290 Secs (1290 Secs) *[==>]*	***[2]***

Orbit Structure

Visit

Proposal 17121, Visit 07, completed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 07) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J2143+0047	RA: 21 43 13.9794 (325.8082475d) Dec: +00 47 15.00 (.78750d) Equinox: J2000	Proper Motion RA: -0.045 mas/yr Proper Motion Dec: -0.043 mas/yr Epoch of Position: 2000 Redshift: 0.493893	V=17.779 FUV=18.731, NUV=18.393	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810176)	(4) J2143+0047	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				92 Secs (92 Secs) *[==>]*	*[1]*
2	(COS.sp.1814057)	(4) J2143+0047	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5019; FLASH=YES; SEGMENT=BOTH			1068 Secs (1068 Secs) *[==>]*	*[1]*
3	(COS.sp.1814057)	(4) J2143+0047	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5019; FLASH=YES; SEGMENT=BOTH			1068 Secs (1068 Secs) *[==>]*	*[1]*
4	(COS.sp.1814057)	(4) J2143+0047	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5019; FLASH=YES; SEGMENT=BOTH			1281 Secs (1281 Secs) *[==>]*	*[2]*
5	(COS.sp.1814057)	(4) J2143+0047	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5019; FLASH=YES; SEGMENT=BOTH			1281 Secs (1281 Secs) *[==>]*	*[2]*

Orbit Structure

Visit

Proposal 17121, Visit 08, failed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 08) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J1255+2859	RA: 12 55 29.1377 (193.8714071d) Dec: +28 59 46.07 (28.99613d) Equinox: J2000	Proper Motion RA: -0.087 mas/yr Proper Motion Dec: 0.871 mas/yr Epoch of Position: 2000 Redshift: 0.257265	V=19.08 FUV=19.217, NUV=19.347	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO, SEYFERT]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1815025)	(5) J1255+2859	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				101 Secs (101 Secs) *[==>]*	*[1]*
2	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1069 Secs (1069 Secs) *[==>]*	*[1]*
3	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1069 Secs (1069 Secs) *[==>]*	*[1]*
4	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
5	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
6	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*
7	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Duplicate of failed visit 8 (20), completed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Duplicate of failed visit 8 (20)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Duplicate of failed visit 8 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Duplicate of failed visit 8 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Duplicate of failed visit 8 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J1255+2859	RA: 12 55 29.1377 (193.8714071d) Dec: +28 59 46.07 (28.99613d) Equinox: J2000	Proper Motion RA: -0.087 mas/yr Proper Motion Dec: 0.871 mas/yr Epoch of Position: 2000 Redshift: 0.257265	V=19.08 FUV=19.217, NUV=19.347	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO, SEYFERT]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1815025)	(5) J1255+2859	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				101 Secs (101 Secs) *[==>]*	*[1]*
2	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1069 Secs (1069 Secs) *[==>]*	*[1]*
3	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1069 Secs (1069 Secs) *[==>]*	*[1]*
4	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
5	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
6	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*
7	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 09, failed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 09) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J1255+2859	RA: 12 55 29.1377 (193.8714071d) Dec: +28 59 46.07 (28.99613d) Equinox: J2000	Proper Motion RA: -0.087 mas/yr Proper Motion Dec: 0.871 mas/yr Epoch of Position: 2000 Redshift: 0.257265	V=19.08 FUV=19.217, NUV=19.347	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO, SEYFERT]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1815025)	(5) J1255+2859	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				101 Secs (101 Secs) *[==>]*	*[1]*
2	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=1468 9; FLASH=YES; SEGMENT=BOTH			1069 Secs (1069 Secs) *[==>]*	*[1]*
3	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=1468 9; FLASH=YES; SEGMENT=BOTH			1069 Secs (1069 Secs) *[==>]*	*[1]*
4	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=1468 9; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
5	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=1468 9; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
6	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=1468 9; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*
7	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=1468 9; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Duplicate of Failed Visit 9 (21), completed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Duplicate of Failed Visit 9 (21)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Duplicate of Failed Visit 9 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Duplicate of Failed Visit 9 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Duplicate of Failed Visit 9 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J1255+2859	RA: 12 55 29.1377 (193.8714071d) Dec: +28 59 46.07 (28.99613d) Equinox: J2000	Proper Motion RA: -0.087 mas/yr Proper Motion Dec: 0.871 mas/yr Epoch of Position: 2000 Redshift: 0.257265	V=19.08 FUV=19.217, NUV=19.347	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO, SEYFERT]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1815025)	(5) J1255+2859	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				101 Secs (101 Secs) *[==>]*	*[1]*
2	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1069 Secs (1069 Secs) *[==>]*	*[1]*
3	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1069 Secs (1069 Secs) *[==>]*	*[1]*
4	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
5	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
6	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*
7	(COS.sp.1814048)	(5) J1255+2859	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14689; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 10, failed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 10) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.

(Visit 10) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	J1335+2549	RA: 13 35 39.3287 (203.9138696d) Dec: +25 49 9.03 (25.81918d) Equinox: J2000	Proper Motion RA: -0.012 mas/yr Proper Motion Dec: -0.013 mas/yr Epoch of Position: 2000 Redshift: 0.413383	V=18.22 FUV=18.458, NUV=18.297	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1814229)	(6) J1335+2549	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				63 Secs (63 Secs) *[==>]*	*[1]*
2	(COS.sp.1814983)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4880; FLASH=YES; SEGMENT=BOTH			1104 Secs (1104 Secs) *[==>]*	*[1]*
3	(COS.sp.1814983)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4880; FLASH=YES; SEGMENT=BOTH			1104 Secs (1104 Secs) *[==>]*	*[1]*
4	(COS.sp.1814983)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4880; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[2]*
5	(COS.sp.1814983)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4880; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[2]*
6	(COS.sp.1814955)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=12631; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*
7	(COS.sp.1814955)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=12631; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Duplicate of failed visit 10 (22), scheduled Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Duplicate of failed visit 10 (22)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.

(Duplicate of failed visit 10 (22)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	J1335+2549	RA: 13 35 39.3287 (203.9138696d) Dec: +25 49 9.03 (25.81918d) Equinox: J2000	Proper Motion RA: -0.012 mas/yr Proper Motion Dec: -0.013 mas/yr Epoch of Position: 2000 Redshift: 0.413383	V=18.22 FUV=18.458, NUV=18.297	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1814229)	(6) J1335+2549	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				63 Secs (63 Secs) *[==>]*	*[1]*
2	(COS.sp.1814983)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4880; FLASH=YES; SEGMENT=BOTH			1104 Secs (1044 Secs) *[==>1044.0 Secs]*	*[1]*
3	(COS.sp.1814983)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4880; FLASH=YES; SEGMENT=BOTH			1104 Secs (1044 Secs) *[==>1044.0 Secs]*	*[1]*
4	(COS.sp.1814983)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4880; FLASH=YES; SEGMENT=BOTH			1292 Secs (1232 Secs) *[==>1232.0 Secs]*	*[2]*
5	(COS.sp.1814983)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4880; FLASH=YES; SEGMENT=BOTH			1292 Secs (1232 Secs) *[==>1232.0 Secs]*	*[2]*
6	(COS.sp.1814955)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=1261; FLASH=YES; SEGMENT=BOTH			1302 Secs (1226 Secs) *[==>1226.0 Secs]*	*[3]*
7	(COS.sp.1814955)	(6) J1335+2549	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=1261; FLASH=YES; SEGMENT=BOTH			1302 Secs (1226 Secs) *[==>1226.0 Secs]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 11, completed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 11) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	J1511+5203 Alt Name1: SBS1509+522	RA: 15 11 1.9011 (227.7579213d) Dec: +52 03 50.07 (52.06391d) Equinox: J2000	Proper Motion RA: -0.02 mas/yr Proper Motion Dec: -0.05 mas/yr Epoch of Position: 2000 Redshift: 0.211287	V=17.294 FUV=18.957, NUV=18.796	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO, SEYFERT]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810160)	(7) J1511+5203	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				93 Secs (93 Secs) *[==>]*	*[1]*
2	(COS.sp.1813987)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=14121; FLASH=YES; SEGMENT=BOTH			1161 Secs (1040 Secs) *[==>1040.0 Secs]*	*[1]*
3	(COS.sp.1813987)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=14121; FLASH=YES; SEGMENT=BOTH			1161 Secs (1040 Secs) *[==>1040.0 Secs]*	*[1]*
4	(COS.sp.1813987)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14121; FLASH=YES; SEGMENT=BOTH			1386 Secs (1264 Secs) *[==>1264.0 Secs]*	*[2]*
5	(COS.sp.1813987)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14121; FLASH=YES; SEGMENT=BOTH			1386 Secs (1264 Secs) *[==>1264.0 Secs]*	*[2]*
6	(COS.sp.1813987)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14121; FLASH=YES; SEGMENT=BOTH			1386 Secs (1264 Secs) *[==>1264.0 Secs]*	*[3]*
7	(COS.sp.1813987)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14121; FLASH=YES; SEGMENT=BOTH			1386 Secs (1264 Secs) *[==>1264.0 Secs]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 12, failed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 12) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	J1511+5203 Alt Name1: SBS1509+522	RA: 15 11 1.9011 (227.7579213d) Dec: +52 03 50.07 (52.06391d) Equinox: J2000	Proper Motion RA: -0.02 mas/yr Proper Motion Dec: -0.05 mas/yr Epoch of Position: 2000 Redshift: 0.211287	V=17.294 FUV=18.957, NUV=18.796	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO, SEYFERT]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810160)	(7) J1511+5203	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				93 Secs (93 Secs) *[==>]*	*[1]*
2	(COS.sp.1813995)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5149; FLASH=YES; SEGMENT=BOTH			1158 Secs (1037 Secs) *[==>1037.0 Secs]*	*[1]*
3	(COS.sp.1813995)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5149; FLASH=YES; SEGMENT=BOTH			1158 Secs (1037 Secs) *[==>1037.0 Secs]*	*[1]*
4	(COS.sp.1813995)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5149; FLASH=YES; SEGMENT=BOTH			1376 Secs (1255 Secs) *[==>1255.0 Secs]*	*[2]*
5	(COS.sp.1813995)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5149; FLASH=YES; SEGMENT=BOTH			1376 Secs (1255 Secs) *[==>1255.0 Secs]*	*[2]*

Orbit Structure

Visit

Proposal 17121, Visit 27 - Duplicate of failed visit 12 (27), implementation Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 27 - Duplicate of failed visit 12 (27)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	J1511+5203 Alt Name1: SBS1509+522	RA: 15 11 1.9011 (227.7579213d) Dec: +52 03 50.07 (52.06391d) Equinox: J2000	Proper Motion RA: -0.02 mas/yr Proper Motion Dec: -0.05 mas/yr Epoch of Position: 2000 Redshift: 0.211287	V=17.294 FUV=18.957, NUV=18.796	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO, SEYFERT]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810160)	(7) J1511+5203	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				93 Secs (93 Secs) *[==>]*	*[1]*
2	(COS.sp.1813995)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5149; FLASH=YES; SEGMENT=BOTH			1158 Secs (1037 Secs) *[==>1037.0 Secs]*	*[1]*
3	(COS.sp.1813995)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5149; FLASH=YES; SEGMENT=BOTH			1158 Secs (1037 Secs) *[==>1037.0 Secs]*	*[1]*
4	(COS.sp.1813995)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5149; FLASH=YES; SEGMENT=BOTH			1376 Secs (1255 Secs) *[==>1255.0 Secs]*	*[2]*
5	(COS.sp.1813995)	(7) J1511+5203	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5149; FLASH=YES; SEGMENT=BOTH			1376 Secs (1255 Secs) *[==>1255.0 Secs]*	*[2]*

Orbit Structure

Visit

Proposal 17121, Visit 13, failed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 13) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J0904+2819 Alt Name1: TXS0901+285	RA: 09 04 29.6274 (136.1234475d) Dec: +28 19 32.76 (28.32577d) Equinox: J2000	Proper Motion RA: -0.049 mas/yr Proper Motion Dec: 0.055 mas/yr Epoch of Position: 2000 Redshift: 1.122015	V=17.20 FUV=19.232, NUV=18.145	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810169)	(8) J0904+2819	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				73 Secs (73 Secs) *[==>]*	*[1]*
2	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=1418; FLASH=YES; SEGMENT=BOTH			1097 Secs (1097 Secs) *[==>]*	*[1]*
3	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=1418; FLASH=YES; SEGMENT=BOTH			1097 Secs (1097 Secs) *[==>]*	*[1]*
4	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=1418; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
5	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=1418; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
6	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=1418; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*
7	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=1418; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Duplicate of Failed Visit 13 (25), scheduled Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Duplicate of Failed Visit 13 (25)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J0904+2819 Alt Name1: TXS0901+285	RA: 09 04 29.6274 (136.1234475d) Dec: +28 19 32.76 (28.32577d) Equinox: J2000	Proper Motion RA: -0.049 mas/yr Proper Motion Dec: 0.055 mas/yr Epoch of Position: 2000 Redshift: 1.122015	V=17.20 FUV=19.232, NUV=18.145	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810169)	(8) J0904+2819	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				73 Secs (73 Secs) *[==>]*	*[1]*
2	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=14418; FLASH=YES; SEGMENT=BOTH			1097 Secs (1037 Secs) *[==>1037.0 Secs]*	*[1]*
3	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=14418; FLASH=YES; SEGMENT=BOTH			1097 Secs (1037 Secs) *[==>1037.0 Secs]*	*[1]*
4	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14418; FLASH=YES; SEGMENT=BOTH			1302 Secs (1241 Secs) *[==>1241.0 Secs]*	*[2]*
5	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14418; FLASH=YES; SEGMENT=BOTH			1302 Secs (1241 Secs) *[==>1241.0 Secs]*	*[2]*
6	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14418; FLASH=YES; SEGMENT=BOTH			1302 Secs (1241 Secs) *[==>1241.0 Secs]*	*[3]*
7	(COS.sp.1814031)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14418; FLASH=YES; SEGMENT=BOTH			1302 Secs (1241 Secs) *[==>1241.0 Secs]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 14, completed Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 14) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 14) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J0904+2819 Alt Name1: TXS0901+285	RA: 09 04 29.6274 (136.1234475d) Dec: +28 19 32.76 (28.32577d) Equinox: J2000	Proper Motion RA: -0.049 mas/yr Proper Motion Dec: 0.055 mas/yr Epoch of Position: 2000 Redshift: 1.122015	V=17.20 FUV=19.232, NUV=18.145	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810169)	(8) J0904+2819	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				73 Secs (73 Secs) *[==>]*	*[1]*
2	(COS.sp.1814036)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5191; FLASH=YES; SEGMENT=BOTH			1099 Secs (1099 Secs) *[==>]*	*[1]*
3	(COS.sp.1814036)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5191; FLASH=YES; SEGMENT=BOTH			1099 Secs (1099 Secs) *[==>]*	*[1]*
4	(COS.sp.1814036)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5191; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[2]*
5	(COS.sp.1814036)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5191; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[2]*
6	(COS.sp.1814036)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5191; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[3]*
7	(COS.sp.1814036)	(8) J0904+2819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5191; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 15, scheduling Wed Jan 08 18:00:38 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 15) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.

(Visit 15) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	J1324+3126	RA: 13 24 21.6428 (201.0901783d) Dec: +31 26 50.76 (31.44743d) Equinox: J2000	Proper Motion RA: 0.063 mas/yr Proper Motion Dec: 0.11 mas/yr Epoch of Position: 2000 Redshift: 0.84741	V=18.413 FUV=19.350, NUV=18.365	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810259)	(9) J1324+3126	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				90 Secs (90 Secs) *[==>]*	*[1]*
2	(COS.sp.1814063)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=14549; FLASH=YES; SEGMENT=BOTH			1087 Secs (1021 Secs) *[==>1021.0 Secs]*	*[1]*
3	(COS.sp.1814063)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=14549; FLASH=YES; SEGMENT=BOTH			1087 Secs (1021 Secs) *[==>1021.0 Secs]*	*[1]*
4	(COS.sp.1814068)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5216; FLASH=YES; SEGMENT=BOTH			1300 Secs (1217 Secs) *[==>1217.0 Secs]*	*[2]*
5	(COS.sp.1814068)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5216; FLASH=YES; SEGMENT=BOTH			1300 Secs (1217 Secs) *[==>1217.0 Secs]*	*[2]*
6	(COS.sp.1814068)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5216; FLASH=YES; SEGMENT=BOTH			1300 Secs (1233 Secs) *[==>1233.0 Secs]*	*[3]*
7	(COS.sp.1814068)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5216; FLASH=YES; SEGMENT=BOTH			1300 Secs (1233 Secs) *[==>1233.0 Secs]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 16, scheduling Wed Jan 08 18:00:39 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 16) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	J1324+3126	RA: 13 24 21.6428 (201.0901783d) Dec: +31 26 50.76 (31.44743d) Equinox: J2000	Proper Motion RA: 0.063 mas/yr Proper Motion Dec: 0.11 mas/yr Epoch of Position: 2000 Redshift: 0.84741	V=18.413 FUV=19.350, NUV=18.365	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810259)	(9) J1324+3126	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				90 Secs (90 Secs) *[==>]*	*[1]*
2	(COS.sp.1814063)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=14549; FLASH=YES; SEGMENT=BOTH			1087 Secs (1021 Secs) *[==>1021.0 Secs]*	*[1]*
3	(COS.sp.1814063)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=14549; FLASH=YES; SEGMENT=BOTH			1087 Secs (1021 Secs) *[==>1021.0 Secs]*	*[1]*
4	(COS.sp.1814063)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14549; FLASH=YES; SEGMENT=BOTH			1309 Secs (1242 Secs) *[==>1242.0 Secs]*	*[2]*
5	(COS.sp.1814063)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14549; FLASH=YES; SEGMENT=BOTH			1309 Secs (1242 Secs) *[==>1242.0 Secs]*	*[2]*
6	(COS.sp.1814063)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=14549; FLASH=YES; SEGMENT=BOTH			1309 Secs (1242 Secs) *[==>1242.0 Secs]*	*[3]*
7	(COS.sp.1814063)	(9) J1324+3126	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=14549; FLASH=YES; SEGMENT=BOTH			1309 Secs (1242 Secs) *[==>1242.0 Secs]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 17, completed Wed Jan 08 18:00:39 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 17) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.

(Visit 17) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 17) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 2 (Visit 17)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

(Exposure 3 (Visit 17)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

(Exposure 4 (Visit 17)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

(Exposure 5 (Visit 17)) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	J1714+5758 Alt Name1: SBS1713+580	RA: 17 14 11.6254 (258.5484392d) Dec: +57 58 33.99 (57.97611d) Equinox: J2000	Proper Motion RA: -0.072 mas/yr Proper Motion Dec: -0.08 mas/yr Epoch of Position: 2000 Redshift: 0.092845	V=15.503 FUV=17.845, NUV=17.564	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO, SEYFERT]
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810278)	(10) J1714+5758	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				43 Secs (43 Secs) *[==>]*	*[1]*
2	(COS.sp.1814076)	(10) J1714+5758	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=7952; FLASH=YES; SEGMENT=BOTH			1234 Secs (1234 Secs) *[==>]*	*[1]*
3	(COS.sp.1814076)	(10) J1714+5758	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=7952; FLASH=YES; SEGMENT=BOTH			1234 Secs (1234 Secs) *[==>]*	*[1]*
4	(COS.sp.1814082)	(10) J1714+5758	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3911; FLASH=YES; SEGMENT=BOTH			1399 Secs (1399 Secs) *[==>]*	*[2]*
5	(COS.sp.1814082)	(10) J1714+5758	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3911; FLASH=YES; SEGMENT=BOTH			1399 Secs (1399 Secs) *[==>]*	*[2]*

Orbit Structure

Visit

Proposal 17121, Visit 18, completed Wed Jan 08 18:00:39 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 18) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	J1258+2753	RA: 12 58 59.2755 (194.7469812d) Dec: +27 53 8.58 (27.88572d) Equinox: J2000	Proper Motion RA: -0.057 mas/yr Proper Motion Dec: 0.052 mas/yr Epoch of Position: 2000 Redshift: 1.1351	V=18.102 FUV=19.292, NUV=18.541	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810268)	(11) J1258+2753	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				74 Secs (74 Secs) *[==>]*	*[1]*
2	(COS.sp.1814069)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=1483; FLASH=YES; SEGMENT=BOTH			1096 Secs (1096 Secs) *[==>]*	*[1]*
3	(COS.sp.1814069)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=1483; FLASH=YES; SEGMENT=BOTH			1096 Secs (1096 Secs) *[==>]*	*[1]*
4	(COS.sp.1814069)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=1483; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
5	(COS.sp.1814069)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=1483; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[2]*
6	(COS.sp.1814069)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=1483; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*
7	(COS.sp.1814069)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=1483; FLASH=YES; SEGMENT=BOTH			1302 Secs (1302 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Visit 19, failed Wed Jan 08 18:00:39 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 19) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave.

(Visit 19) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	J1258+2753	RA: 12 58 59.2755 (194.7469812d) Dec: +27 53 8.58 (27.88572d) Equinox: J2000	Proper Motion RA: -0.057 mas/yr Proper Motion Dec: 0.052 mas/yr Epoch of Position: 2000 Redshift: 1.1351	V=18.102 FUV=19.292, NUV=18.541	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.1810268)	(11) J1258+2753	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				74 Secs (74 Secs) *[==>]*	*[1]*
2	(COS.sp.1814069)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=14483; FLASH=YES; SEGMENT=BOTH			1096 Secs (1096 Secs) *[==>]*	*[1]*
3	(COS.sp.1814069)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=14483; FLASH=YES; SEGMENT=BOTH			1096 Secs (1096 Secs) *[==>]*	*[1]*
4	(COS.sp.1814074)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5205; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[2]*
5	(COS.sp.1814074)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5205; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[2]*
6	(COS.sp.1814074)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5205; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[3]*
7	(COS.sp.1814074)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5205; FLASH=YES; SEGMENT=BOTH			1292 Secs (1292 Secs) *[==>]*	*[3]*

Orbit Structure

Visit

Proposal 17121, Duplicate of failed part of visit 19 (23), completed Wed Jan 08 18:00:39 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	J1258+2753	RA: 12 58 59.2755 (194.7469812d) Dec: +27 53 8.58 (27.88572d) Equinox: J2000	Proper Motion RA: -0.057 mas/yr Proper Motion Dec: 0.052 mas/yr Epoch of Position: 2000 Redshift: 1.1351	V=18.102 FUV=19.292, NUV=18.541	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[QSO]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.ta.181 0268)	(11) J1258+2753	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				74 Secs (74 Secs) *[==>]*	*[1]*
2	(COS.sp.181 4074)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=5205; FLASH=YES; SEGMENT=BOTH			1062 Secs (1037 Secs) *[==>1037.0 Secs]*	*[1]*
3	(COS.sp.181 4074)	(11) J1258+2753	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=5205; FLASH=YES; SEGMENT=BOTH			1063 Secs (1038 Secs) *[==>1038.0 Secs]*	*[1]*

Orbit Structure