

XRT Timeline to be uploaded on 2012/11/08

Period: 2012/11/08 09:30:00 - 2012/11/13 10:57:00

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Normal mode

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XOB #193D: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, shorter thin-Be, thick Al and Al/Poly context, With G-bar

| Term | Pointing (x, y) | Comment |
|---------------------------------|-----------------------------------------------------|-----------------------------------|
| 11/08 09:43:00 - 11/08 14:14:54 | Track (-613.0, 165.8) ^{@ 11/08 09:40:00} | # OP start + 10min + returning AR |
| 11/08 18:20:00 - 11/08 22:16:54 | Fixed (920.0, 160.0) | AR11607 |
| 11/08 22:20:00 - 11/09 02:16:54 | Track (-890.1, 169.2) ^{@ 11/08 22:17:00} | New AR at the east limb |
| 11/09 10:03:00 - 11/09 17:56:54 | Track (-352.5, -425.6) ^{@ 11/09 10:00:00} | AR11608 |
| 11/09 18:10:00 - 11/09 22:06:54 | Track (-361.4, 158.8) ^{@ 11/09 18:07:00} | returning AR |
| 11/09 22:10:00 - 11/10 02:06:54 | Track (-791.4, 158.5) ^{@ 11/09 22:07:00} | New AR at the east limb |

PROG= 19 Inf.-time(s)

| | | | | | | | | | | | | |
|-------------------------------------|---------------|-------|------|------|-------|-----|-----|----------------------|------|---|---|---------|
| Subr= 1 1-time(s) 2.0sec | | | | | | | | | | | | |
| Seqn= 19 2-time(s) 2.0sec | | | | | | | | | | | | |
| Open/G-band | Open/G-band | close | Safe | Norm | 63ms | Obs | 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec |
| Subr= 2 2-time(s) 2.0sec | | | | | | | | | | | | |
| Seqn= 92 1-time(s) 2.0sec | | | | | | | | | | | | |
| Al-poly/Open | Al-poly/Open | close | Safe | Dark | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | open | Safe | Norm | 44ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec |
| Seqn= 32 4-time(s) 2.0sec | | | | | | | | | | | | |
| Al-poly/Open | thin-Be/Open | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 512x512 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 5.66s | Obs | 1x1 | 512x512 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Al | close | Safe | Norm | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Seqn= 93 30-time(s) 120.0sec | | | | | | | | | | | | |
| thin-Be/Open | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Al-poly/Open | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 15.0sec |
| thin-Be/Open | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 1 | 2.0sec |
| Al-poly/Open | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 1 | 15.0sec |
| thin-Be/Open | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 2 | 2.0sec |
| Al-poly/Open | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 2 | 15.0sec |
| thin-Be/Open | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 3 | 2.0sec |
| Al-poly/Open | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 3 | 15.0sec |

Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval

XOB #1944: HOP203 - Ti/Poly - FOV256 - Q95 - 1min cadence - QS-CH - 512FOV Context

| Term | Pointing (x, y) | Comment |
|---------------------------------|---------------------------------------------------|---------|
| 11/08 14:18:00 - 11/08 17:43:30 | Track (-19.8, 430.9) ^{@ 11/08 14:15:00} | HOP203 |

PROG= 15 Inf.-time(s)

| | | | | | | | | | | | | |
|------------------------------------|--------------|-------|------|------|-------|-----|-----|----------------------|------|---|---|--------|
| Subr= 1 1-time(s) 2.0sec | | | | | | | | | | | | |
| Seqn= 53 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/Ti-poly | Open/Ti-poly | close | Safe | Norm | 2.00s | Obs | 1x1 | 512x512 (1064, 1048) | Q=95 | 0 | 0 | 2.0sec |
| Subr= 2 5-time(s) 2.0sec | | | | | | | | | | | | |
| Seqn= 55 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/Ti-poly | Open/Ti-poly | close | Safe | Dark | 2.00s | Obs | 1x1 | 256x256 (1064, 1048) | Q=95 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | open | Safe | Norm | 63ms | Obs | 1x1 | 256x256 (1064, 1048) | Q=90 | 0 | 0 | 2.0sec |
| Seqn= 52 30-time(s) 60.0sec | | | | | | | | | | | | |
| Open/Ti-poly | Open/Ti-poly | close | Safe | Norm | 2.00s | Obs | 1x1 | 256x256 (1064, 1048) | Q=95 | 0 | 0 | 2.0sec |

Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval

XOB #192F: Synoptic Q95 2x2 - Al/mesh(33/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 -1x1 2048x512) + Ti-poly(64/1443) + Thin-Be(18

| Term | Pointing (x, y) | Comment |
|---------------------------------|-------------------|----------------------------|
| 11/08 18:11:00 - 11/08 18:16:54 | Fixed (0.0, 0.0) | synoptic, shifted 7.0 min |
| 11/09 05:57:00 - 11/09 06:03:54 | Fixed (0.0, 0.0) | synoptic, shifted -6.0 min |
| 11/09 18:00:00 - 11/09 18:06:54 | Fixed (0.0, 0.0) | synoptic, shifted -3.0 min |
| 11/10 06:03:00 - 11/10 06:09:54 | Fixed (0.0, 0.0) | synoptic |

PROG= 13 1-time(s)

| | | | | | | | | | | | | |
|----------------------------------|---------------|-------|------|------|-------|-----|-----|------------------------|------|---|---|--------|
| Subr= 1 1-time(s) 14.0sec | | | | | | | | | | | | |
| Seqn= 64 1-time(s) 4.0sec | | | | | | | | | | | | |
| Open/Al-mesh | Open/Ti-poly | close | Safe | Norm | 32ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Ti-poly | close | Safe | Norm | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 6 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 8x8 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 1x1 | 2048x512 (1024, 1024) | DPCM | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 1x1 | 512x2048 (1024, 1024) | DPCM | 0 | 0 | 2.0sec |
| Seqn= 70 1-time(s) 4.0sec | | | | | | | | | | | | |
| Open/Ti-poly | Open/Ti-poly | close | Safe | Norm | 63ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/Ti-poly | close | Safe | Norm | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 67 1-time(s) 2.0sec | | | | | | | | | | | | |
| thin-Be/Open | thin-Be/Open | close | Safe | Norm | 177ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| thin-Be/Open | thin-Be/Open | close | Safe | Norm | 2.83s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 69 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 8ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |

| | | | | | | | | | | | | |
|----------------|----------------|--------|------|-------|------|-----|-----|------------------------|-------|------------|----------|--------|
| Subr= 2 | 1-time(s) | 2.0sec | | | | | | | | | | |
| Seqn= 68 | 1-time(s) | 2.0sec | | | | | | | | | | |
| Open/G-band | Open/G-band | close | Safe | Norm | 32ms | Obs | 1x1 | 2048x2048 (1024, 1024) | DPCM | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

XOB #193C: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, shorter thin-Be, thick Al and Al/Poly context, With G-band

| Term | Pointing (x, y) | Comment |
|---------------------------------|------------------------------------------|---------|
| 11/09 02:20:00 - 11/09 05:53:54 | Track (-411.4, -424.4) @ 11/09 02:17:00 | AR11608 |
| 11/09 06:07:00 - 11/09 09:59:54 | Track (-382.8, -425.0) @ 11/09 06:04:00 | AR11608 |
| 11/10 02:10:00 - 11/10 05:59:54 | Track (-223.6, -427.3) @ 11/10 02:07:00 | AR11608 |
| 11/10 06:13:00 - 11/10 08:40:00 | Track (-190.3, -427.6) @ 11/10 06:10:00 | AR11608 |

PROG= 05 Inf.-time(s)

| | | | | | | | | | | | | |
|----------------|----------------|---------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|---------|
| Subr= 1 | 1-time(s) | 2.0sec | | | | | | | | | | |
| Seqn= 19 | 2-time(s) | 2.0sec | | | | | | | | | | |
| Open/G-band | Open/G-band | close | Safe | Norm | 63ms | Obs | 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec |
| Subr= 2 | 2-time(s) | 2.0sec | | | | | | | | | | |
| Seqn= 92 | 1-time(s) | 2.0sec | | | | | | | | | | |
| Al-poly/Open | Al-poly/Open | close | Safe | Dark | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | open | Safe | Norm | 44ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec |
| Seqn= 32 | 4-time(s) | 2.0sec | | | | | | | | | | |
| Al-poly/Open | thin-Be/Open | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 512x512 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 5.66s | Obs | 1x1 | 512x512 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Al | close | Safe | Norm | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Seqn= 93 | 30-time(s) | 60.0sec | | | | | | | | | | |
| thin-Be/Open | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Al-poly/Open | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 15.0sec |
| thin-Be/Open | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 1 | 2.0sec |
| Al-poly/Open | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 1 | 15.0sec |
| thin-Be/Open | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 2 | 2.0sec |
| Al-poly/Open | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 2 | 15.0sec |
| thin-Be/Open | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 3 | 2.0sec |
| Al-poly/Open | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 3 | 15.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

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Flare mode

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XOB #1920: Flare obs. dynamics - thin-Be high cadence + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2)-Gband (45ms)-15 loops

| Term | Pointing (x, y) | Comment |
|---------------------------------|------------------------------------------|-----------------------------------|
| 11/08 09:43:00 - 11/08 14:14:54 | Track (-613.0, 165.8) @ 11/08 09:40:00 | # OP start + 10min + returning AR |
| 11/08 14:18:00 - 11/08 17:43:30 | Track (-19.8, 430.9) @ 11/08 14:15:00 | HOP203 |
| 11/08 18:20:00 - 11/08 22:16:54 | Fixed (920.0, 160.0) | AR11607 |
| 11/08 22:20:00 - 11/09 02:16:54 | Track (-890.1, 169.2) @ 11/08 22:17:00 | New AR at the east limb |
| 11/09 02:20:00 - 11/09 05:53:54 | Track (-411.4, -424.4) @ 11/09 02:17:00 | AR11608 |
| 11/09 06:07:00 - 11/09 09:59:54 | Track (-382.8, -425.0) @ 11/09 06:04:00 | AR11608 |
| 11/09 10:03:00 - 11/09 17:56:54 | Track (-352.5, -425.6) @ 11/09 10:00:00 | AR11608 |
| 11/09 18:10:00 - 11/09 22:06:54 | Track (-361.4, 158.8) @ 11/09 18:07:00 | returning AR |
| 11/09 22:10:00 - 11/10 02:06:54 | Track (-791.4, 158.5) @ 11/09 22:07:00 | New AR at the east limb |
| 11/10 02:10:00 - 11/10 05:59:54 | Track (-223.6, -427.3) @ 11/10 02:07:00 | AR11608 |
| 11/10 06:13:00 - 11/10 08:40:00 | Track (-190.3, -427.6) @ 11/10 06:10:00 | AR11608 |

PROG= 16 15-time(s)

| | | | | | | | | | | | | |
|----------------|------------------|---------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 1 | 45-time(s) | 10.0sec | | | | | | | | | | |
| Seqn= 35 | 1-time(s) | 2.0sec | | | | | | | | | | |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| Subr= 2 | 1-time(s) | 10.0sec | | | | | | | | | | |
| Seqn= 36 | 1-time(s) | 2.0sec | | | | | | | | | | |
| med-Al/Open | med-Al/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| Open/thick-Be | Open/thick-Be | close | Safe | Norm | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| Seqn= 37 | 1-time(s) | 2.0sec | | | | | | | | | | |
| Al-poly/Open | Al-poly/thick-Al | close | Safe | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |
| Seqn= 38 | 1-time(s) | 2.0sec | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 44ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

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Active Region Search

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NOT USED

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Flare Detection

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FLD Patrol

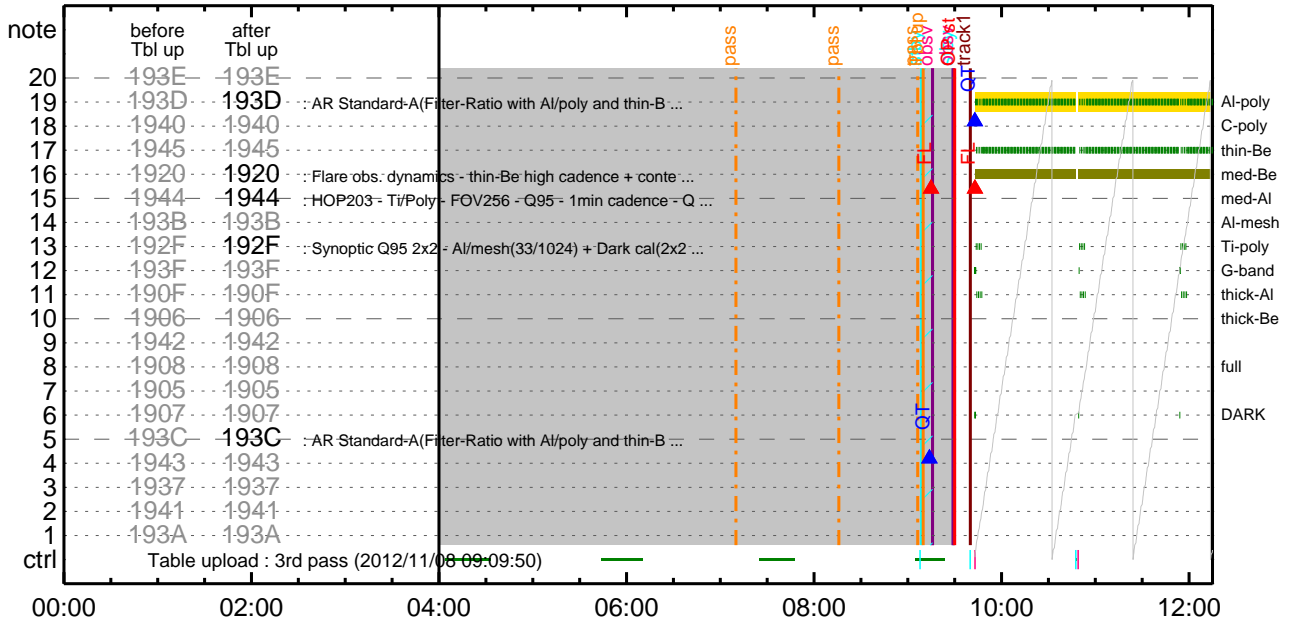
| Term | Pointing (x, y) | Comment |
|---------------------------------|------------------------------------------|-----------------------------------|
| 11/08 09:42:46 - 11/08 18:08:16 | Track (-613.0, 165.8) @ 11/08 09:40:00 | # OP start + 10min + returning AR |
| 11/08 18:19:46 - 11/09 05:54:16 | Fixed (920.0, 160.0) | AR11607 |
| 11/09 06:06:46 - 11/09 17:57:16 | Track (-382.8, -425.0) @ 11/09 06:04:00 | AR11608 |

11/09 18:09:46 - 11/10 06:00:16 Track (-361.4, 158.8) @ 11/09 18:07:00 returning AR

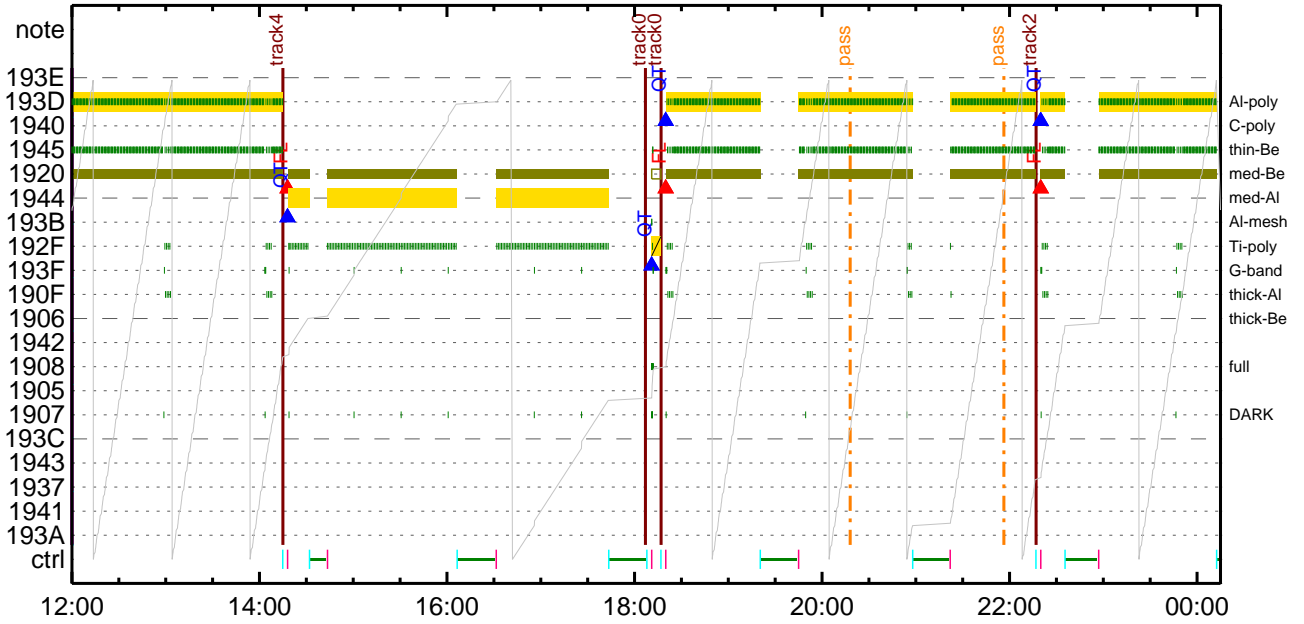
11/10 06:12:46 - 11/13 10:57:00 Track (-190.3, -427.6) @ 11/10 06:10:00 AR11608

| | | | | | | | | | | | |
|----------------|----------------|-------|------|-------|------|-----|-----|--------------------|-------|------------|----------|
| Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 8ms | Obs | 8x8 | | | Q=50 | 30sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |

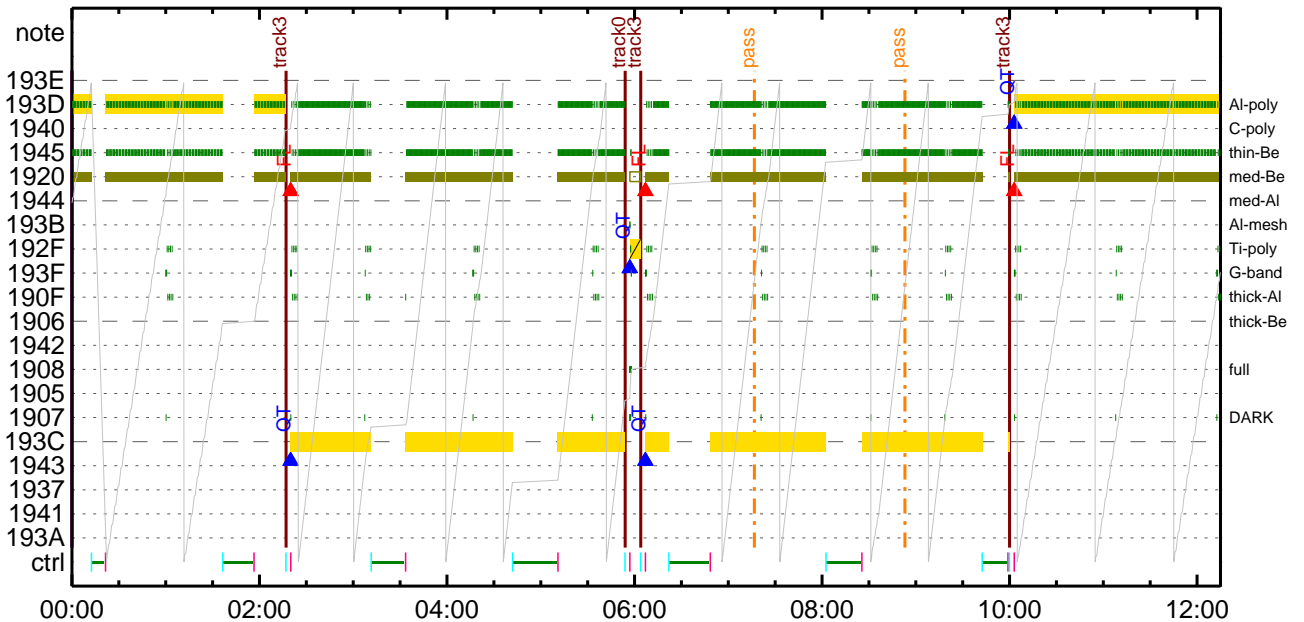
CMDI #0039 2012/11/08



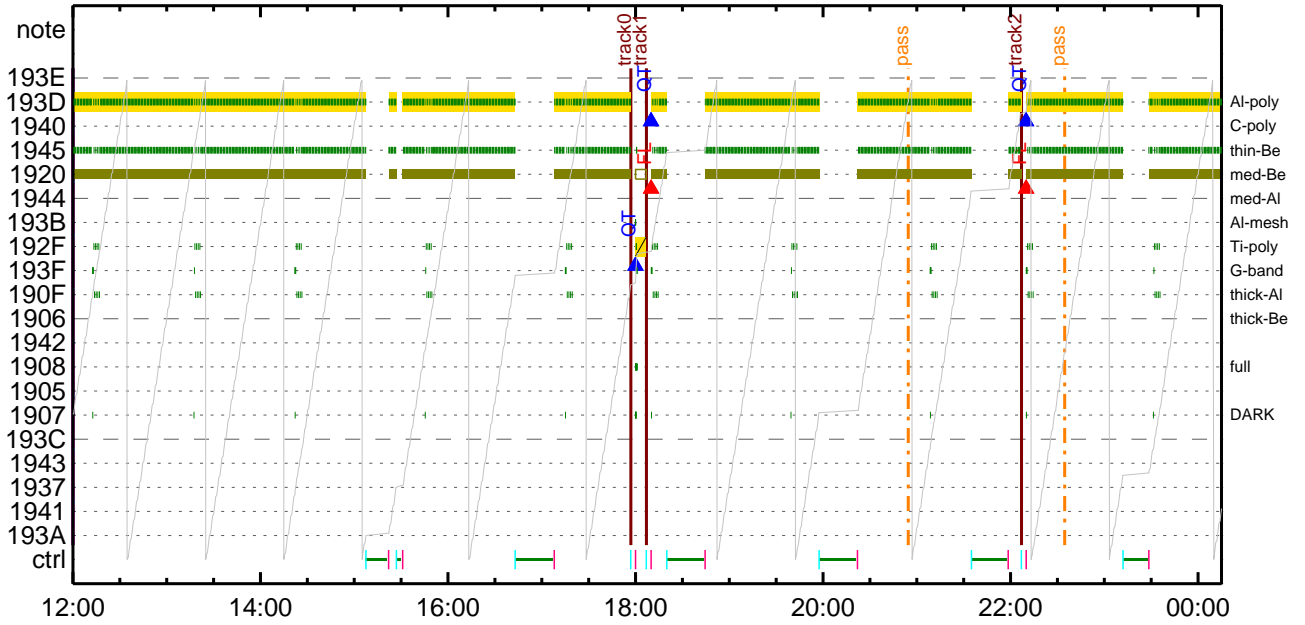
CMDI #0039 2012/11/08



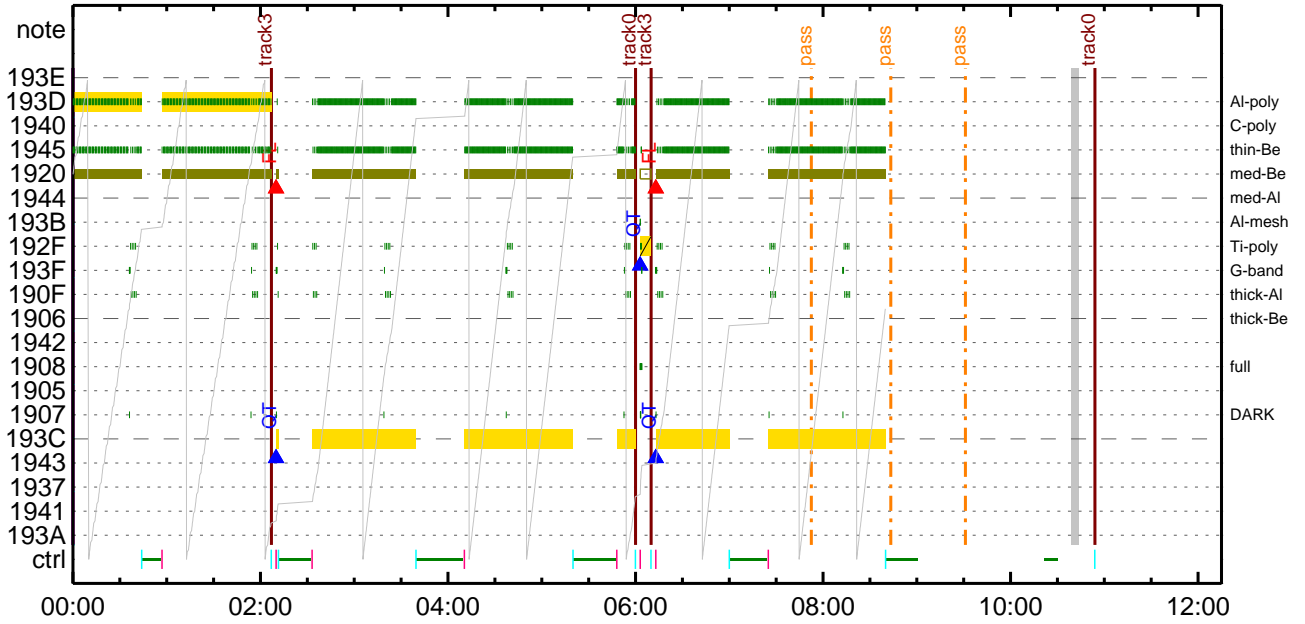
CMDI #0039 2012/11/09



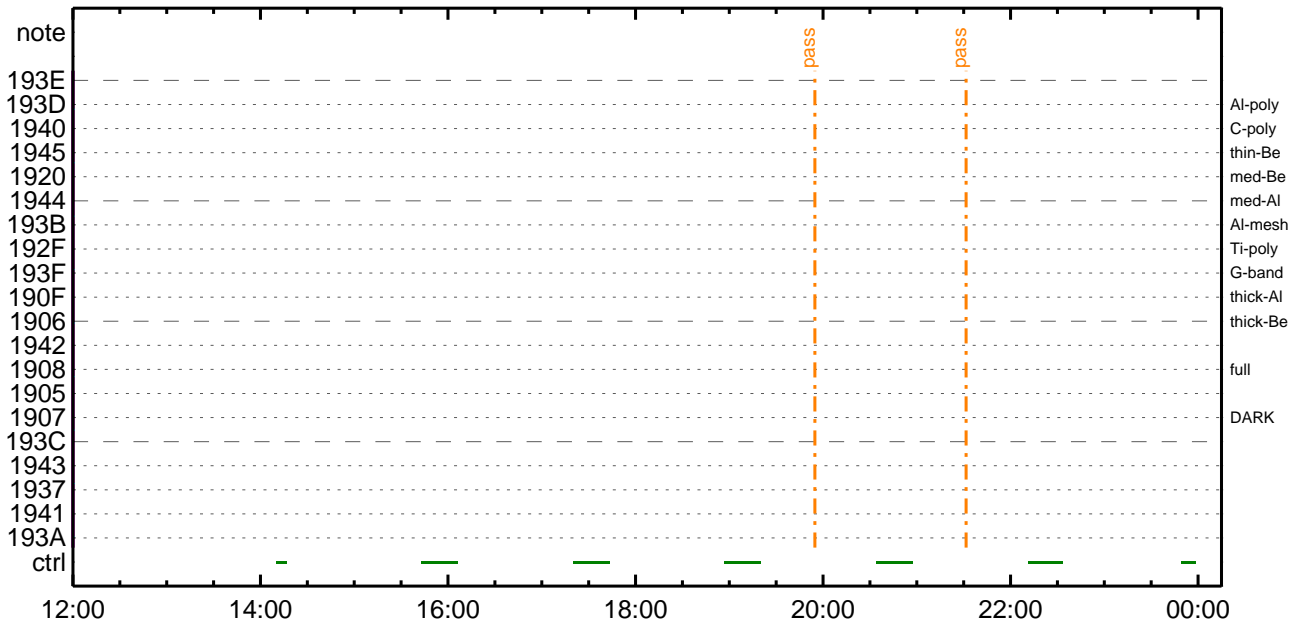
CMDI #0039 2012/11/09



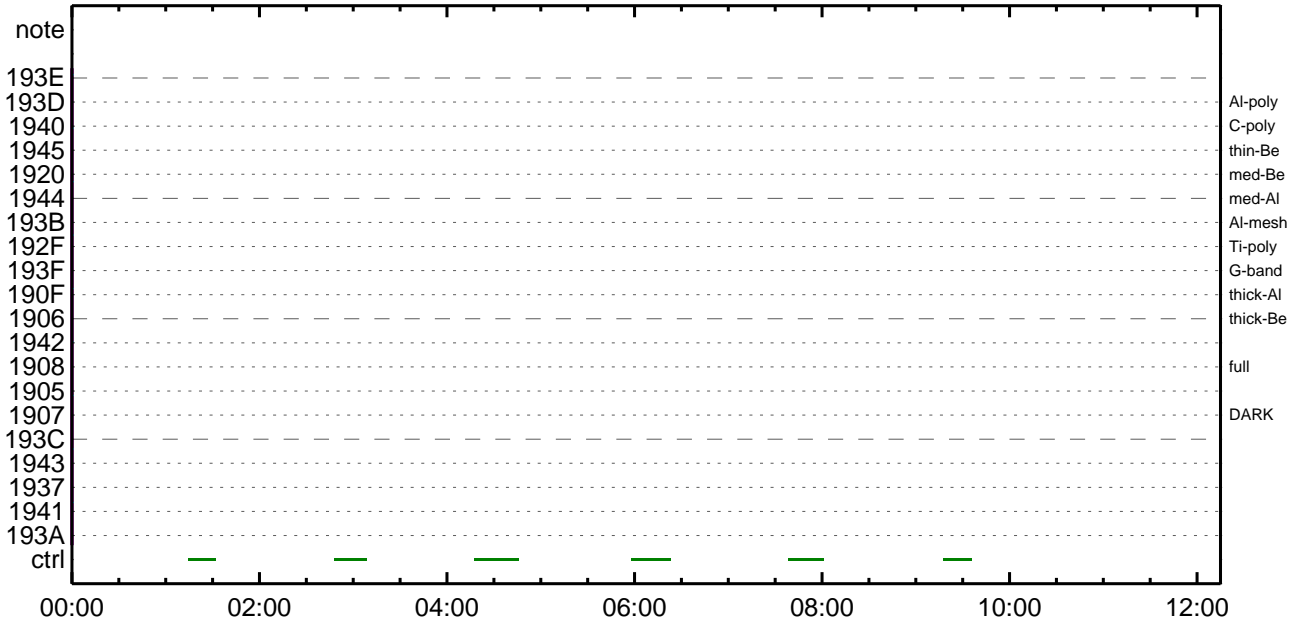
CMDI #0039 2012/11/10



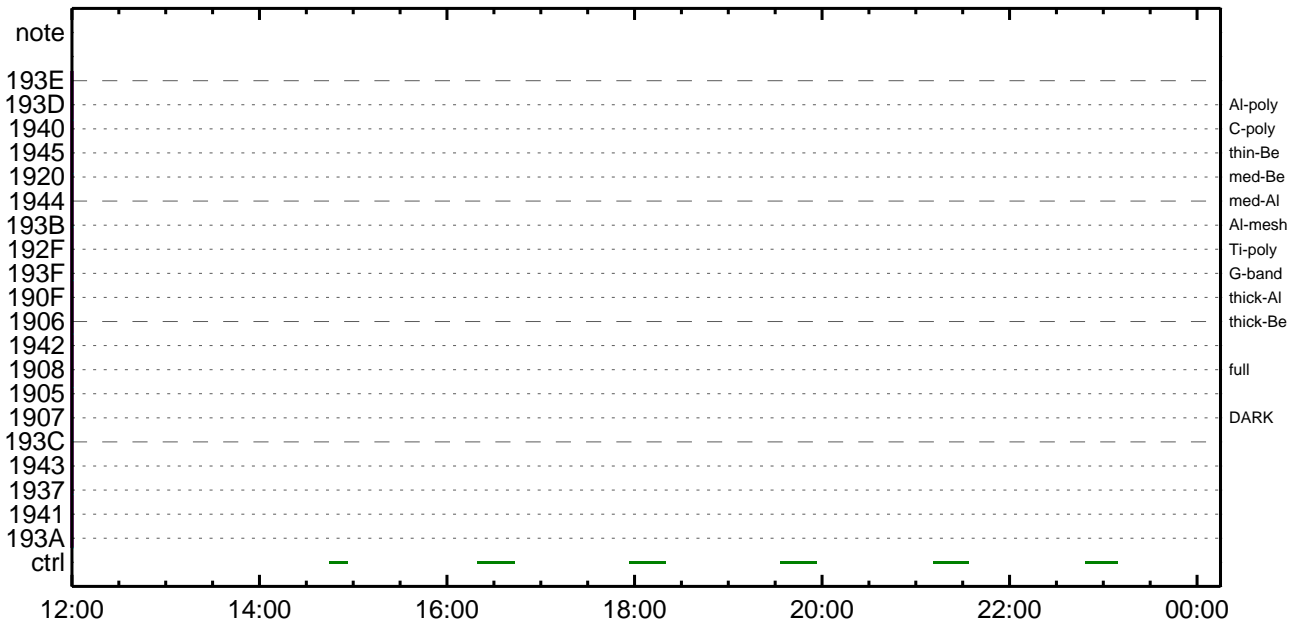
CMDI #0039 2012/11/10



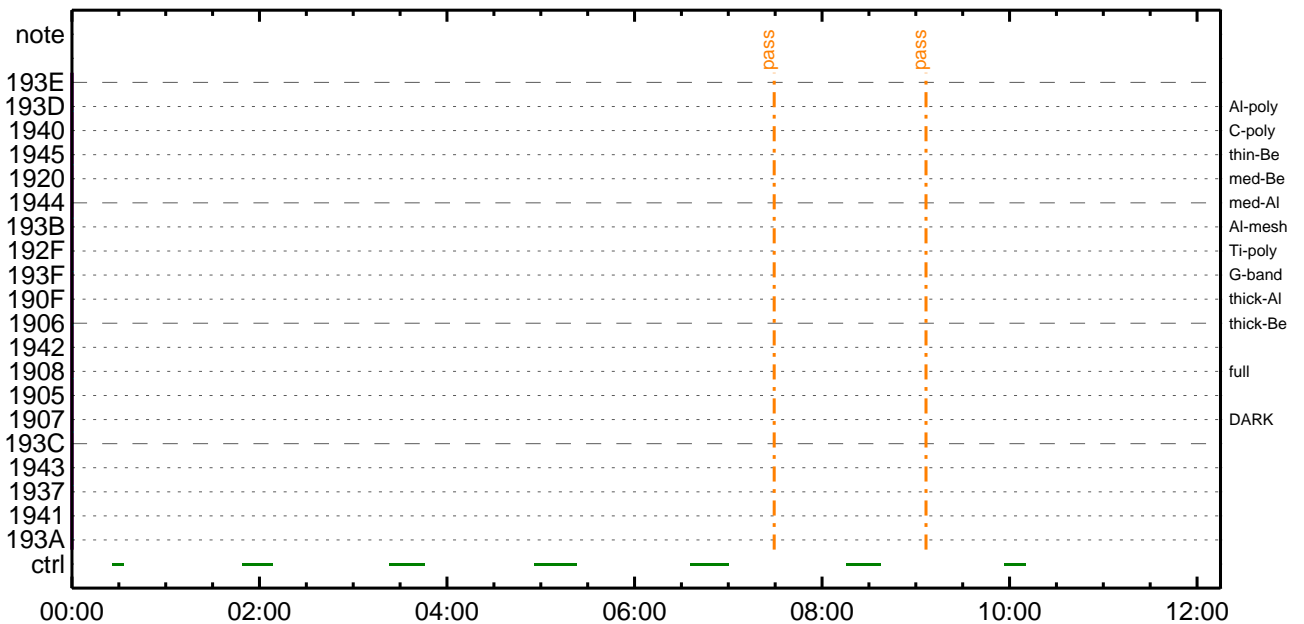
CMDI #0039 2012/11/11



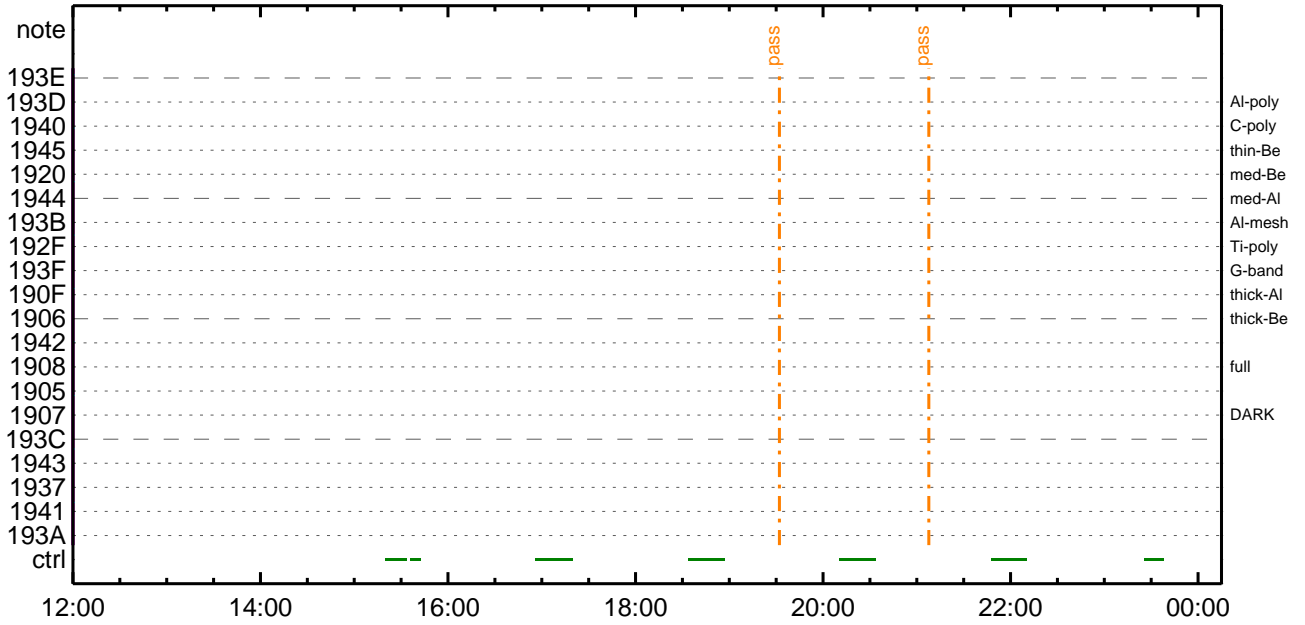
CMDI #0039 2012/11/11



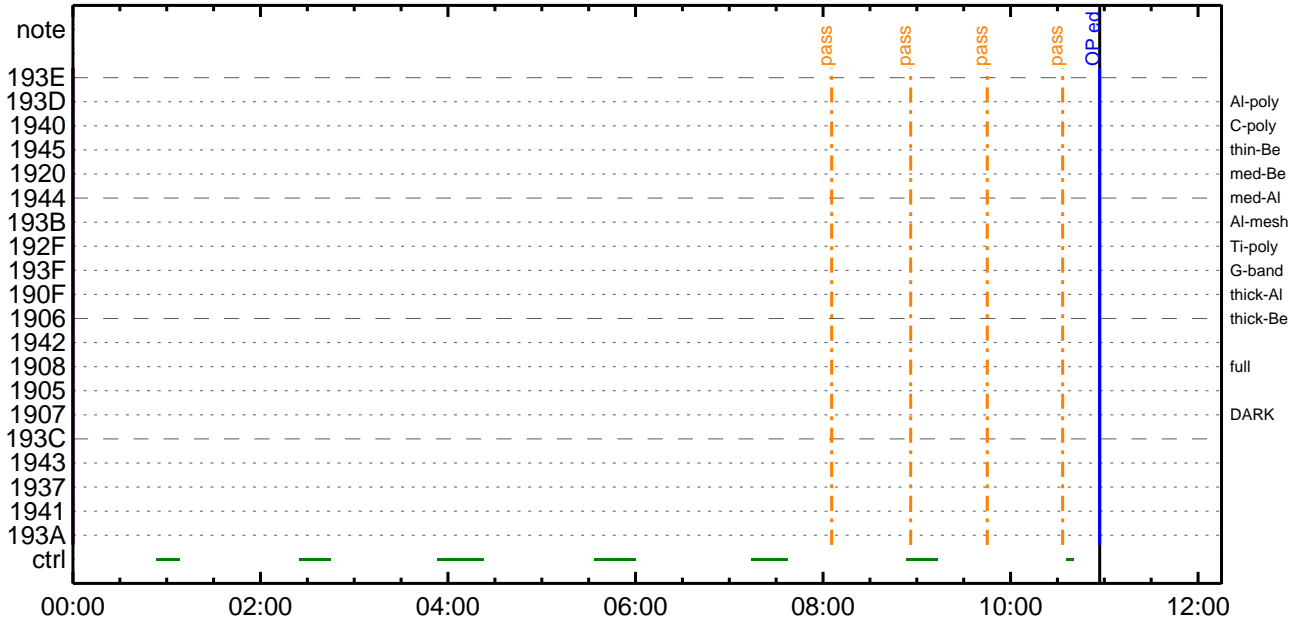
CMDI #0039 2012/11/12



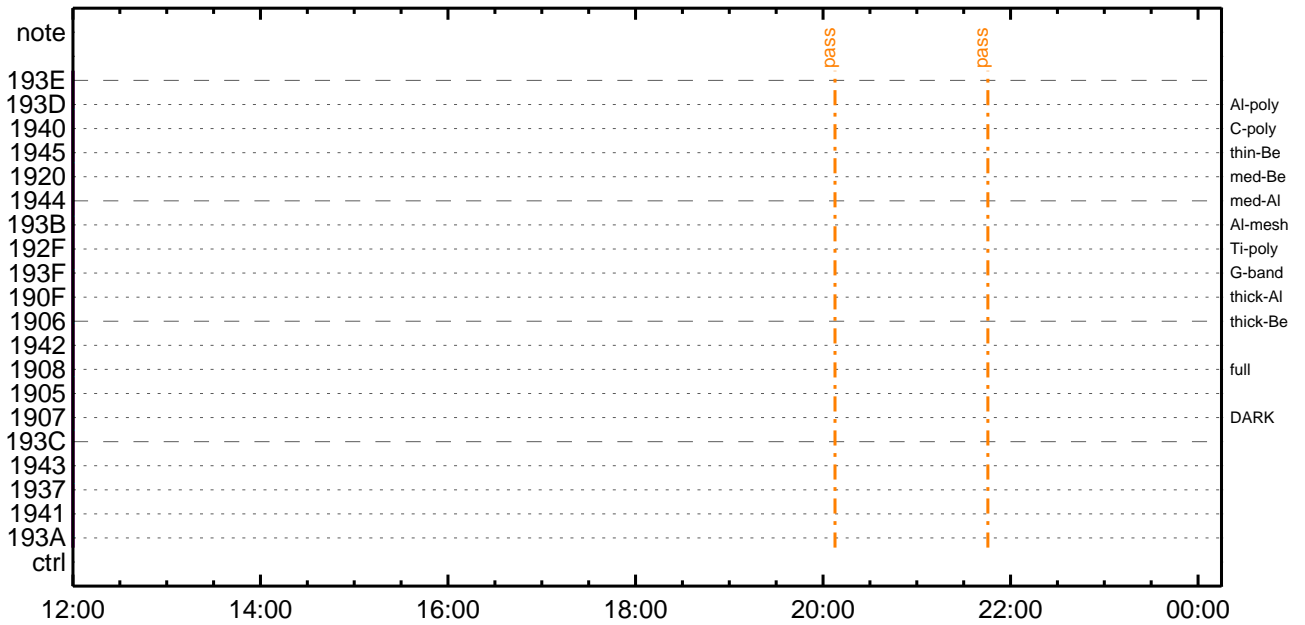
CMDI #0039 2012/11/12



CMDI #0039 2012/11/13



CMDI #0039 2012/11/13



0096 C. 0p0z;çSET0EDUMP0IÆ±°iYÑY¹0Ç¹Ô0|0³0E;f

0097 C.

0098 . C. TIY³YF¥ÖYÉ00dÄDİ¿(UT)

0099 +. TI 2012-11-08 09:25:00.0

0100 DC 01-B3 DHU_OP_STOP

0101 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

0102 C.

0103 +. TI 2012-11-08 09:25:01.0

0104 DC 01-B4 DHU_OP_COPY

0105 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

0106 C.

0107 +. TI 2012-11-08 09:25:01.0

0108 DC 01-B5 DHU_OPOG_COPY

0109 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

0110 C.

0111 +. TI 2012-11-08 09:29:59.5

0112 DC 01-B2 DHU_OP_START

0113 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

0114 C.

0115 C. 0E²¼0IÄê%îÍÑ0IYÁY§YÁY-¹àÛ

0116 C. çç[HK1_TI_CMD_ENA/DIS] EQ ENA

0117 C. çç[HK1_TI_CMD_NUM] EQ 4

0118 C. çç[HK1_NEXT_EXEC_PIM] EQ DHU

0119 C. çç[HK1_NEXT_EXEC_DC] EQ 0xB3

0120 C.

0121 . C. *****

0122 C. TIÎÎ°èYÄYÖYx

0123 C. *****

0124 C.

0125 C. TI_TBL(0x03AB00-0x03AEFF;§ 1024byte)

0126 +. DC 01-23 DHU_DMA_DMP_PRM_SET

0127 BC (03 ab 03 01 02)

0128 C. çç[HK1_DMP_TOP_ADRS_1] EQ 07

0129 C. çç[HK1_DMP_TOP_ADRS_0] EQ 2B

0130 C. çç[HK1_DMP_BLOCK_NUM] EQ 3

0131 C. çç[HK1_DMP_REPEAT_NUM] EQ 0

0132 C. çç[HK1_DMA_DMP_PIM] EQ DHU

0133 +. DC 01-22 DHU_MODE_CHNG

0134 BC (07 0b f8)

0135 C. çç[HK1_PKT_FORM_NO] EQ 7

0136 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s

0137 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k

0138 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M

0139 C. çç[HK1_DMP_CHK_FLG] EQ EXEC

0140 C.

0141 . C. YÄYÖYx¼ªªI»0d³IÇ§

0142 C. çç[HK1_DMP_CHK_FLG] EQ NON

0143 C.

0144 . C. RAM ID=TI_TBL0I%È¹ç•è²I0K0d³IÇ§

0145 C.

0146 . C. DHUYâ;¼YÉ;È¼Y¼, Yî;¼YÈ;È0dIâ0¹

0147 +. DC 01-22 DHU_MODE_CHNG

0148 BC (02 0a f8)

0149 C. çç[HK1_PKT_FORM_NO] EQ 2

0150 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S

0151 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K

0152 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M

0153 C.

0154 C. *****

0155 C. SOT TI command set

0156 C. *****

0157 C. Execute, after the success of OP upload.

0158 +. TI 2012-11-08 09:29:16.0

0159 DC 07-F0 MDP_SOT_MODE_STBY

0160 BC (41)

0161 . C. -----

0162 C. HK1_TI_CMD_NUM = 1 CNTUP []

0163 C. -----

0164 C. ***** SOT END *****

0165 . C. Stop EIS observation and temporarily disable EIS mode changes

0166 C.

0167 C.

0168 C. ***** Start EIS operation (TI set) *****

0169 C. Execute, after the success of OP upload.

0170 C. Set EIS TI-commands

0171 +. TI 2012-11-08 09:29:30.0

0172 DC 07-FC EIS_MODE_MANU

0173 BC (21 02)

0174 +. TI 2012-11-08 09:29:40.0

0175 DC 07-FC EIS_MODE_CHG_DIS

0176 BC (22)

0177 . C. [] [HK1_TI_CMD_NUM] EQ 2 COUNTUP

0178 C. ***** End EIS operation (TI set) *****

0179 C.

0180 C.

0181 C.

0182 C. ***** XRT START *****

0183 C. Execute, after the success of OP upload.

0184 +. TI 2012-11-08 09:29:00.0

0185 DC 07-F0 MDP_XRT_MODE_STBY

0186 BC (c3)

0187 . C. [] [HK1_TI_CMD_NUM] EQ 1COUNTUP

0188 C.

0189 C. ***** XRT END *****

0190 C.

0191 . C. ***** MDP `üÄî0I»ö¼Y0ÈÄ0¹0èDCBC•x²è *****

0192 C. (%â°iYÖYÄYÉYF¥YÁYçYè0E¼00¼Ä»Û0¹0é)

0193 . S. DC-BC dcbc-402:DCBC

```
0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥ÐŸ!•İ Daily±;İÑøĒ'Øσ¹αēDCBC•x²è *****
0198 . S. DC-BC dcbc-153:DCBC
0199 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200 C.
0201 C.
0202 . C. ;ãLOS¥Á¥S¥Ã¥~¼Â»Ü;ä
0203 C.
0204 . C. ***** LOS *****
0205 C.
```


(a) Spacecraft Operation Procedure (real-commands)

```
main-258 2012-11-08 14:46:44 132 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èα¿αÁα•μ°È»Í×ÁÇαÍYÇYÁY×YÍ;¼YÉ;ÈÈè%μ•ííÉ;ÈÈÈ¼°ÇÓα•α¿¼í¹ÇαÍ;ÇÁ®, ùα¹αÈαBαÇÁ+¿®α•αÈααα³αÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop FG table >
0018 +. DC 07-F0 MDP_FG_CTRL_MANU
0019 BC (51)
0020 . C. -----
0021 C. MDP_FG_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload FG Observation Table>
0025 . S. RAM ram-263:MDP_OBS_F
0026 ( )
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_F >
0029 +. DC 07-F0 MDP_DUMP_FGTBL
0030 BC (82 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_F verify = OK/NG [ ]
0033 C. -----
0034 C.
0035 C. *****
0036 C. SOT TI command set
0037 C. *****
0038 C. Execute, after the success of TBL upload.
0039 +. TI 2012-11-08 09:29:18.0
0040 DC 07-F0 MDP_SOT_MODE_OBSV
0041 BC (40)
0042 . C. -----
0043 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0044 C. -----
0045 C.
0046 C.
0047 C. ***** XRT START *****
0048 C.
0049 +. DC 07-F0 MDP_XRT_CTRL_MANU
0050 BC (c1)
0051 + DC 07-F0 MDP_XRT_MODE_STBY
0052 BC (c3)
0053 . C. ----- Success Verify ? OK / NG_____
0054 C.
0055 C. XRT Obs. Table Upload
0056 . S. RAM ram-291:MDP_OBS_X
0057 ( )
0058 C.
0059 +. DC 07-F0 MDP_DUMP_XRTTBL
0060 BC (84 07 00 00 00 3a d4)
0061 . C. ----- Comparison Check ? OK / ERR _____
0062 C.
0063 C.
0064 +. DC 07-F0 MDP_XRT_ROI_SET
0065 BC (cd 01 b1 b1 04 04)
0066 + DC 07-F0 MDP_XRT_ROI_SET
0067 BC (cd 02 b1 b1 08 08)
0068 + DC 07-F0 MDP_XRT_ROI_SET
0069 BC (cd 03 b1 b1 08 08)
0070 + DC 07-F0 MDP_XRT_ROI_SET
0071 BC (cd 04 b1 b1 06 06)
0072 + DC 07-F0 MDP_XRT_ROI_SET
0073 BC (cd 05 85 83 06 06)
0074 + DC 07-F0 MDP_XRT_ROI_SET
0075 BC (cd 06 85 83 06 06)
0076 + DC 07-F0 MDP_XRT_ROI_SET
0077 BC (cd 07 85 83 08 08)
0078 + DC 07-F0 MDP_XRT_ROI_SET
0079 BC (cd 08 85 83 04 04)
0080 + DC 07-F0 MDP_XRT_ROI_SET
0081 BC (cd 09 80 80 20 20)
0082 + DC 07-F0 MDP_XRT_ROI_SET
0083 BC (cd 0a 80 80 20 08)
0084 + DC 07-F0 MDP_XRT_ROI_SET
0085 BC (cd 0b 80 80 08 20)
0086 + DC 07-F0 MDP_XRT_ROI_SET
0087 BC (cd 0f 80 80 06 06)
0088 + DC 07-F0 MDP_XRT_ROI_SET
0089 BC (cd 10 80 80 08 08)
0090 + DC 07-F0 MDP_XRT_FLD_DIS
0091 BC (d9)
0092 + DC 07-F0 MDP_XRT_FLRCTRL_DIS
0093 BC (c9)
0094 + DC 07-F0 MDP_XRT_AEC_RESET
0095 BC (d0)
```

0096 + DC 07-F0 MDP_XRT_ARS_DIS
0097 BC (d5)
0098 + DC 07-F0 MDP_XRT_FLD_RESET
0099 BC (da)
0100 + DC 07-F0 MDP_XRT_QT_PROG_SET
0101 BC (c4 05)
0102 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0103 BC (c5 10)
0104 . C. ----- Success Verify ? OK / NG ____
0105 C.
0106 C.
0107 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0108 C.
0109 +. DC 07-F0 MDP_XRT_MODE_OBSV
0110 BC (c2)
0111 +. TI 2012-11-08 09:29:02.0
0112 DC 07-F0 MDP_XRT_MODE_OBSV
0113 BC (c2)
0114 . C. ----- Success Verify ? OK / NG ____
0115 C.
0116 C. ***** XRT END *****
0117 C.
0118 . C. ***** MDP `uAÎaî»ö¼YºEÂDº¹ºèDCBC•x²è *****
0119 C. (¼â°îYÔYÄYÈYpYÈYáYçYèºE¼ºº¼A»Üº¹ºè)
0120 . S. DC-BC dcbc-402:DCBC
0121 (MDP_known_event)
0122 C.
0123 C.
0124 . C. ***** YDY¹•İ Daily±;İÑºE'Øº¹ºèDCBC•x²è *****
0125 . S. DC-BC dcbc-153:DCBC
0126 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0127 C.
0128 C.
0129 . C. ;ãLOS¥Ä¥S¥Ä¥-¼A»Ü;ã
0130 C.
0131 . C. ***** LOS *****
0132 C.

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*** OP Sequence for XRT ***

| | | | | | | | | | |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2012/11/08 | 09:39:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 09:40:00.0 | AOCS_ORe-point_Start_1_OG [0x097] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 01 00 00 00 00 | | | | |
| 2012/11/08 | 09:42:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | | |
| 2012/11/08 | 09:42:46.0 | XRT_FLD_ENA_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2012/11/08 | 09:42:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2012/11/08 | 09:42:50.0 | XRT_AEC_RESET_423_OG [0x1a7] | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2012/11/08 | 09:42:52.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2012/11/08 | 09:42:54.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 09:42:56.0 | XRT_QT_PROG_SET_439_OG [0x1b7] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 13 | | | | |
| 2012/11/08 | 09:42:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] | | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 10 | | | | |
| 2012/11/08 | 09:43:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 10:47:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 10:47:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 10:47:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/08 | 10:48:00.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/08 | 10:49:00.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 10:50:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/08 | 14:14:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 14:15:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 | | | | |
| 2012/11/08 | 14:17:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | | |
| 2012/11/08 | 14:17:46.0 | XRT_FLD_ENA_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2012/11/08 | 14:17:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2012/11/08 | 14:17:50.0 | XRT_AEC_RESET_423_OG [0x1a7] | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2012/11/08 | 14:17:52.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2012/11/08 | 14:17:54.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 14:17:56.0 | XRT_QT_PROG_SET_435_OG [0x1b3] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0f | | | | |
| 2012/11/08 | 14:17:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] | | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 10 | | | | |
| 2012/11/08 | 14:18:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 14:32:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 14:32:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 14:32:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/08 | 14:35:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/08 | 14:42:31.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/08 | 14:43:31.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 16:06:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 16:06:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 16:06:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/08 | 16:09:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/08 | 16:30:30.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/08 | 16:31:30.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 17:43:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 17:43:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 17:43:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/08 | 17:46:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/08 | 18:07:00.5 | AOCS_ORe-point_Start_3_OG [0x099] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | | | |
| 2012/11/08 | 18:07:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 18:07:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | | | |

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| | | | | | | | | | |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2012/11/08 | 18:08:16.0 | XRT_FLD_DIS_404_OG [0x194] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | | |
| 2012/11/08 | 18:08:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | | |
| 2012/11/08 | 18:08:20.0 | XRT_ARS_DIS_406_OG [0x196] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2012/11/08 | 18:10:58.0 | XRT_QT_PROG_SET_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0d | | | |
| 2012/11/08 | 18:11:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 18:16:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 18:17:00.0 | AOCS_OrE-point_Start_4_OG [0x09a] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 | f1 | cb | ae | 36 |
| 2012/11/08 | 18:19:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | fe | 97 | 00 | |
| 2012/11/08 | 18:19:46.0 | XRT_FLD_ENA_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2012/11/08 | 18:19:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2012/11/08 | 18:19:50.0 | XRT_AEC_RESET_423_OG [0x1a7] | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2012/11/08 | 18:19:52.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2012/11/08 | 18:19:54.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 18:19:56.0 | XRT_QT_PROG_SET_439_OG [0x1b7] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 13 | | | |
| 2012/11/08 | 18:19:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] | | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 10 | | | |
| 2012/11/08 | 18:20:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 19:20:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 19:20:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 19:20:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/08 | 19:23:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/08 | 19:44:00.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/08 | 19:45:00.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 20:58:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 20:58:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 20:58:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/08 | 21:01:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/08 | 21:21:01.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/08 | 21:22:01.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 22:16:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 22:17:00.0 | AOCS_OrE-point_Start_5_OG [0x09b] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 02 | 00 | 00 | 00 | 00 |
| 2012/11/08 | 22:19:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | fe | 97 | 00 | |
| 2012/11/08 | 22:19:46.0 | XRT_FLD_ENA_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2012/11/08 | 22:19:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2012/11/08 | 22:19:50.0 | XRT_AEC_RESET_423_OG [0x1a7] | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2012/11/08 | 22:19:52.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2012/11/08 | 22:19:54.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 22:19:56.0 | XRT_QT_PROG_SET_439_OG [0x1b7] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 13 | | | |
| 2012/11/08 | 22:19:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] | | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 10 | | | |
| 2012/11/08 | 22:20:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/08 | 22:35:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/08 | 22:35:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/08 | 22:35:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/08 | 22:38:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/08 | 22:56:01.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/08 | 22:57:01.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/09 | 00:12:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/09 | 00:12:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/09 | 00:12:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |

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|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2012/11/09 | 00:15:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/09 | 00:20:30.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/09 | 00:21:30.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/09 | 01:36:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/09 | 01:36:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/09 | 01:36:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/09 | 01:39:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/09 | 01:55:30.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/09 | 01:56:30.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/09 | 02:16:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/09 | 02:17:00.0 | AOCS_Ore-point_Start_6_OG [0x09c] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 03 00 00 00 00 | | | | |
| 2012/11/09 | 02:19:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | | |
| 2012/11/09 | 02:19:46.0 | XRT_FLD_ENA_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2012/11/09 | 02:19:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2012/11/09 | 02:19:50.0 | XRT_AEC_RESET_423_OG [0x1a7] | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2012/11/09 | 02:19:52.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2012/11/09 | 02:19:54.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/09 | 02:19:56.0 | XRT_QT_PROG_SET_417_OG [0x1a1] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 05 | | | | |
| 2012/11/09 | 02:19:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] | | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 10 | | | | |
| 2012/11/09 | 02:20:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/09 | 03:11:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/09 | 03:11:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/09 | 03:11:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/09 | 03:14:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/09 | 03:32:30.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/09 | 03:33:30.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/09 | 04:42:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/09 | 04:42:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/09 | 04:42:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2012/11/09 | 04:45:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2012/11/09 | 05:10:01.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | |
| 2012/11/09 | 05:11:01.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/09 | 05:53:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/09 | 05:53:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | | | |
| 2012/11/09 | 05:54:00.0 | AOCS_Ore-point_Start_3_OG [0x099] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | | | |
| 2012/11/09 | 05:54:16.0 | XRT_FLD_DIS_404_OG [0x194] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | | |
| 2012/11/09 | 05:54:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | | |
| 2012/11/09 | 05:54:20.0 | XRT_ARS_DIS_406_OG [0x196] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2012/11/09 | 05:56:58.0 | XRT_QT_PROG_SET_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0d | | | | |
| 2012/11/09 | 05:57:00.5 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2012/11/09 | 06:03:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2012/11/09 | 06:04:00.0 | AOCS_Ore-point_Start_6_OG [0x09c] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 03 00 00 00 00 | | | | |
| 2012/11/09 | 06:06:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | | |
| 2012/11/09 | 06:06:46.0 | XRT_FLD_ENA_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2012/11/09 | 06:06:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2012/11/09 | 06:06:50.0 | XRT_AEC_RESET_423_OG [0x1a7] | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2012/11/09 | 06:06:52.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2012/11/09 | 06:06:54.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2012/11/09 | 06:06:56.0 | XRT_QT_PROG_SET_417_OG [0x1a1] | | | | | | | |

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|----|
| 2012/11/09 | 06:06:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 05 |
| | | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 10 |
| 2012/11/09 | 06:07:00.5 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2012/11/09 | 06:22:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2012/11/09 | 06:22:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2012/11/09 | 06:22:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2012/11/09 | 06:25:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2012/11/09 | 06:47:31.0 | XRT_Custom_434_OG [0x1b2] | | | | | |
| 2012/11/09 | 06:48:31.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2012/11/09 | 08:02:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2012/11/09 | 08:02:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2012/11/09 | 08:02:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2012/11/09 | 08:05:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2012/11/09 | 08:24:30.0 | XRT_Custom_434_OG [0x1b2] | | | | | |
| 2012/11/09 | 08:25:30.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2012/11/09 | 09:42:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2012/11/09 | 09:42:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2012/11/09 | 09:42:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2012/11/09 | 09:45:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2012/11/09 | 09:58:00.0 | XRT_Custom_434_OG [0x1b2] | | | | | |
| 2012/11/09 | 09:59:00.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2012/11/09 | 09:59:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2012/11/09 | 10:00:00.0 | AOCS_Or-point_Start_6_OG [0x09c] | AOCU_NM | 5 | 02-76 | 03 00 00 00 00 | |
| 2012/11/09 | 10:02:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | |
| 2012/11/09 | 10:02:46.0 | XRT_FLD_ENA_428_OG [0x1ac] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | |
| 2012/11/09 | 10:02:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | |
| 2012/11/09 | 10:02:50.0 | XRT_AEC_RESET_423_OG [0x1a7] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | |
| 2012/11/09 | 10:02:52.0 | XRT_ARS_DIS_438_OG [0x1b6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2012/11/09 | 10:02:54.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2012/11/09 | 10:02:56.0 | XRT_QT_PROG_SET_439_OG [0x1b7] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 13 | |
| 2012/11/09 | 10:02:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 10 | |
| 2012/11/09 | 10:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2012/11/09 | 15:07:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2012/11/09 | 15:07:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2012/11/09 | 15:07:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2012/11/09 | 15:10:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2012/11/09 | 15:21:00.0 | XRT_Custom_434_OG [0x1b2] | | | | | |
| 2012/11/09 | 15:22:00.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2012/11/09 | 15:27:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2012/11/09 | 15:27:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2012/11/09 | 15:27:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2012/11/09 | 15:30:00.0 | XRT_Custom_434_OG [0x1b2] | | | | | |
| 2012/11/09 | 15:30:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2012/11/09 | 15:31:00.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2012/11/09 | 16:43:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2012/11/09 | 16:43:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2012/11/09 | 16:43:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2012/11/09 | 16:46:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2012/11/09 | 17:07:01.0 | XRT_Custom_434_OG [0x1b2] | | | | | |
| 2012/11/09 | 17:08:01.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |

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|------------|------------|---------------------------------------------------------|---|-------|----------------|
| 2012/11/09 | 17:56:54.0 | XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2012/11/09 | 17:56:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2012/11/09 | 17:57:00.0 | AOCS_ORe-point_Start_3_OG [0x099] AOCU_NM | 5 | 02-76 | 00 00 00 00 00 |
| 2012/11/09 | 17:57:16.0 | XRT_FLD_DIS_404_OG [0x194] MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2012/11/09 | 17:57:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195] MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2012/11/09 | 17:57:20.0 | XRT_ARS_DIS_406_OG [0x196] MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2012/11/09 | 17:59:58.0 | XRT_QT_PROG_SET_419_OG [0x1a3] MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0d |
| 2012/11/09 | 18:00:00.0 | XRT_CTRL_AUTO_408_OG [0x198] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2012/11/09 | 18:06:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2012/11/09 | 18:07:00.0 | AOCS_ORe-point_Start_1_OG [0x097] AOCU_NM | 5 | 02-76 | 01 00 00 00 00 |
| 2012/11/09 | 18:09:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2012/11/09 | 18:09:46.0 | XRT_FLD_ENA_428_OG [0x1ac] MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2012/11/09 | 18:09:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2012/11/09 | 18:09:50.0 | XRT_AEC_RESET_423_OG [0x1a7] MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2012/11/09 | 18:09:52.0 | XRT_ARS_DIS_438_OG [0x1b6] MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2012/11/09 | 18:09:54.0 | XRT_FLD_RESET_424_OG [0x1a8] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2012/11/09 | 18:09:56.0 | XRT_QT_PROG_SET_439_OG [0x1b7] MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 13 |
| 2012/11/09 | 18:09:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 10 |
| 2012/11/09 | 18:10:00.0 | XRT_CTRL_AUTO_408_OG [0x198] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2012/11/09 | 18:20:00.0 | XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2012/11/09 | 18:20:02.0 | XRT_FLD_RESET_424_OG [0x1a8] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2012/11/09 | 18:20:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2012/11/09 | 18:23:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2012/11/09 | 18:43:31.0 | XRT_Custom_434_OG [0x1b2] | | | |
| 2012/11/09 | 18:44:31.0 | XRT_CTRL_AUTO_413_OG [0x19d] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2012/11/09 | 19:57:30.0 | XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2012/11/09 | 19:57:32.0 | XRT_FLD_RESET_424_OG [0x1a8] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2012/11/09 | 19:57:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2012/11/09 | 20:00:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2012/11/09 | 20:21:00.0 | XRT_Custom_434_OG [0x1b2] | | | |
| 2012/11/09 | 20:22:00.0 | XRT_CTRL_AUTO_413_OG [0x19d] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2012/11/09 | 21:35:00.0 | XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2012/11/09 | 21:35:02.0 | XRT_FLD_RESET_424_OG [0x1a8] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2012/11/09 | 21:35:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2012/11/09 | 21:38:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2012/11/09 | 21:57:30.0 | XRT_Custom_434_OG [0x1b2] | | | |
| 2012/11/09 | 21:58:30.0 | XRT_CTRL_AUTO_413_OG [0x19d] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2012/11/09 | 22:06:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2012/11/09 | 22:07:00.0 | AOCS_ORe-point_Start_5_OG [0x09b] AOCU_NM | 5 | 02-76 | 02 00 00 00 00 |
| 2012/11/09 | 22:09:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2012/11/09 | 22:09:46.0 | XRT_FLD_ENA_428_OG [0x1ac] MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2012/11/09 | 22:09:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2012/11/09 | 22:09:50.0 | XRT_AEC_RESET_423_OG [0x1a7] MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2012/11/09 | 22:09:52.0 | XRT_ARS_DIS_438_OG [0x1b6] MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2012/11/09 | 22:09:54.0 | XRT_FLD_RESET_424_OG [0x1a8] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2012/11/09 | 22:09:56.0 | XRT_QT_PROG_SET_439_OG [0x1b7] MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 13 |
| 2012/11/09 | 22:09:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 10 |
| 2012/11/09 | 22:10:00.0 | XRT_CTRL_AUTO_408_OG [0x198] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|
| 2012/11/09 | 23:12:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2012/11/09 | 23:12:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2012/11/09 | 23:12:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2012/11/09 | 23:15:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2012/11/09 | 23:27:30.0 | XRT_Custom_434_OG [0x1b2] | | | | | | |
| 2012/11/09 | 23:28:30.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2012/11/10 | 00:44:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2012/11/10 | 00:44:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2012/11/10 | 00:44:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2012/11/10 | 00:47:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2012/11/10 | 00:56:00.5 | XRT_Custom_434_OG [0x1b2] | | | | | | |
| 2012/11/10 | 00:57:00.5 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2012/11/10 | 02:06:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2012/11/10 | 02:07:00.0 | AOCS_Ore-point_Start_6_OG [0x09c] | AOCU_NM | 5 | 02-76 | 03 00 00 00 00 | | |
| 2012/11/10 | 02:09:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | |
| 2012/11/10 | 02:09:46.0 | XRT_FLD_ENA_428_OG [0x1ac] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | |
| 2012/11/10 | 02:09:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | |
| 2012/11/10 | 02:09:50.0 | XRT_AEC_RESET_423_OG [0x1a7] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | |
| 2012/11/10 | 02:09:52.0 | XRT_ARS_DIS_438_OG [0x1b6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2012/11/10 | 02:09:54.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2012/11/10 | 02:09:56.0 | XRT_QT_PROG_SET_417_OG [0x1a1] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 05 | | |
| 2012/11/10 | 02:09:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 10 | | |
| 2012/11/10 | 02:10:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2012/11/10 | 02:11:30.5 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2012/11/10 | 02:11:32.5 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2012/11/10 | 02:11:34.5 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2012/11/10 | 02:14:44.5 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2012/11/10 | 02:32:01.0 | XRT_Custom_434_OG [0x1b2] | | | | | | |
| 2012/11/10 | 02:33:01.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2012/11/10 | 03:39:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2012/11/10 | 03:39:32.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2012/11/10 | 03:39:34.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2012/11/10 | 03:42:44.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2012/11/10 | 04:09:30.0 | XRT_Custom_434_OG [0x1b2] | | | | | | |
| 2012/11/10 | 04:10:30.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2012/11/10 | 05:20:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2012/11/10 | 05:20:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2012/11/10 | 05:20:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2012/11/10 | 05:23:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2012/11/10 | 05:47:00.0 | XRT_Custom_434_OG [0x1b2] | | | | | | |
| 2012/11/10 | 05:48:00.0 | XRT_CTRL_AUTO_413_OG [0x19d] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2012/11/10 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2012/11/10 | 05:59:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | |
| 2012/11/10 | 06:00:00.0 | AOCS_Ore-point_Start_3_OG [0x099] | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | |
| 2012/11/10 | 06:00:16.0 | XRT_FLD_DIS_404_OG [0x194] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | |
| 2012/11/10 | 06:00:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | |
| 2012/11/10 | 06:00:20.0 | XRT_ARS_DIS_406_OG [0x196] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2012/11/10 | 06:02:58.0 | XRT_QT_PROG_SET_419_OG [0x1a3] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0d | | |
| 2012/11/10 | 06:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |

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|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|--|
| 2012/11/10 | 06:09:54.0 | XRT_CTRL_MANU_447_OG [0x1bf] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | | |
| 2012/11/10 | 06:10:00.0 | AOCS_OrE-point_Start_6_OG [0x09c] | | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 03 00 00 00 00 | | | | | |
| 2012/11/10 | 06:12:26.0 | XRT_FOCUS_POSITION_420_OG [0x1a4] | | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | | | |
| 2012/11/10 | 06:12:46.0 | XRT_FLD_ENA_428_OG [0x1ac] | | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | | |
| 2012/11/10 | 06:12:48.0 | XRT_FLRCTRL_ENA_429_OG [0x1ad] | | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | | |
| 2012/11/10 | 06:12:50.0 | XRT_AEC_RESET_423_OG [0x1a7] | | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | | |
| 2012/11/10 | 06:12:52.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | | |
| 2012/11/10 | 06:12:54.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | | |
| 2012/11/10 | 06:12:56.0 | XRT_QT_PROG_SET_417_OG [0x1a1] | | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 05 | | | | | |
| 2012/11/10 | 06:12:58.0 | XRT_FL_PROG_SET_444_OG [0x1bc] | | | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 10 | | | | | |
| 2012/11/10 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | | |
| 2012/11/10 | 07:00:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | | |
| 2012/11/10 | 07:00:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | | |
| 2012/11/10 | 07:00:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | | |
| 2012/11/10 | 07:03:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | | |
| 2012/11/10 | 07:24:00.0 | XRT_Custom_434_OG [0x1b2] | | | | | | | | |
| 2012/11/10 | 07:25:00.0 | XRT_CTRL_AUTO_413_OG [0x19d] | | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | | |
| 2012/11/10 | 08:40:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | | |
| 2012/11/10 | 08:40:02.0 | XRT_FLD_RESET_424_OG [0x1a8] | | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | | |
| 2012/11/10 | 08:40:04.0 | XRT_PREFLR_STRT_432_OG [0x1b0] | | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | | |
| 2012/11/10 | 08:43:14.0 | XRT_PREFLR_STOP_433_OG [0x1b1] | | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | | |
| 2012/11/10 | 10:53:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | | |
| 2012/11/10 | 10:54:00.0 | AOCS_OrE-point_Start_3_OG [0x099] | | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | | | | |