List of all comments to all files in RUN48 (3+4/96)

-	Isotope	DLT	File	Comment
coincidences with SC41, D3 down as file F1, but without coincidence with SC41 fest of setup with fragments and study of fragmentation / fission cont. of F3, only slits at S1 changed R48-1 F5 R48-1 F6 R48-1 F7 R48-1 F7 R48-1 F7 R48-1 F7 R48-1 F9 cont. of F5, stop due to problems with SEETRAM cont. of F8, SEETRAM okay, Scanlist 3, change in FastBus setup cont. of F9 R48-1 F11 Test of Twin: HV of both anodes now +500V, setting as before threshold of SC21 + SC41 (1+r) CFDs decreased to gain more triggers, now the main part of fragments jumps over the threshold R48-1 F12 primary beam at S2, MW21, MW22 SC21 check (calibration setting of RUN46, Feb. 1996) R48-1 F15 primary beam at S4, all settings as before, no MW21, MW22 in beam R48-2 F17 same as F16, but defocus with HFSQT12 in y (set to zero), Twin anodes again 1000V R48-2 F17 same as F16, but defocus with HFSQT12 in y (set to zero), Twin anodes again 1000V sweeping beam at S4, defocussed at S2 and S4 (0 to 150mm), Twin: 3. anode (upper chamber) has no signals (VV?) R48-2 F20 same as F19, Twin lr(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin R48-2 F21 same as F20, 3. anode (upper chamber) of Twin still missing	$^{90}\mathrm{Zr}$	R.48 1	F1	position calibration of SC21, zeros in AT spectra due to
R48_1 F2 R48_1 F3 R48_1 F4 R48_1 F5 R48_1 F5 R48_1 F6 R48_1 F6 R48_1 F6 R48_1 F6 R48_1 F7 R48_1 F7 R48_1 F7 R48_1 F7 R48_1 F9 R48_1 F9 R48_1 F9 R48_1 F9 R48_1 F9 R48_1 F9 R48_1 F10 R48_1 F10 R48_1 F11 R48_1 F11 R48_1 F11 R48_1 F12 R48_1 F12 R48_1 F12 R48_1 F13 R48_1 F13 R48_1 F13 R48_1 F14 R48_1 F15 R48_1 F15 R48_1 F10 R48_1 F10 R48_1 F10 R48_1 F11 R48_1 F11 R48_1 F12 R48_1 F12 R48_1 F13 R48_1 F13 R48_1 F13 R48_1 F14 R48_1 F15 R48_2 F17 Same as F16, but defocus with HFSQT12 in y (set to zero), Twin anodes again 1000V sweeping beam at S4, stopped due to low intensities because of defocussing at S2 R48_2 F19 R48_2 F19 R48_2 F10 R48_2 F20 R4		1010_1		
R48_1 F3 test of setup with fragments and study of fragmentation / fission cont. of F3, only slits at S1 changed R48_1 F5 HFSQT11-13, TS4QT11-13 set to zero, defocussed beam R48_1 F6 cont. of F5 R48_1 F7 R48_1 F8 cont. of F5 R48_1 F8 cont. of F5 R48_1 F8 cont. of F5 R48_1 F9 cont. of F8, SEETRAM okay, Scanlist 3, change in FastBus setup R48_1 F10 cont. of F9 R48_1 F11 Test of Twin: HV of both anodes now +500V, setting as before R48_1 F12 threshold of SC21 + SC41 (l+r) CFDs decreased to gain more triggers, now the main part of fragments jumps over the threshold P48_1 F13 primary beam at S2, MW21, MW22 SC21 check (calibration setting of RUN46, Feb. 1996) R48_1 F14 looking for charge states at S1, magnetic setting of F13 primary beam at S4, all settings as before, no MW21, MW22 in beam R48_1 F15 primary beam at S4, all settings as before, no MW21, MW22 in beam R48_2 F17 same as F16, but defocus with HFSQT12 in y (set to zero), Twin anodes again 1000V sweeping beam at S4, stopped due to low intensities because of defocussing at S2 sweeping beam at S4, stopped due to low intensities because of defocussing at S2 sweeping beam at S4, defocussed at S2 and S4 (0 to 150mm), Twin: 3. anode (upper chamber) has no signals (VV?) same as F19, Twin_Ir(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin same as F20, 3. anode (upper chamber) of Twin still missing		R.48_1	F2	, and the second
R48_1 F4 fission cont. of F3, only slits at S1 changed HFSQT11_13, TS4QT11_13 set to zero, defocussed beam Cont. of F5 R48_1 F6 cont. of F5 R48_1 F7 new defocussation, only HFSQT11_13 are switched off R48_1 F9 cont. of F7, stop due to problems with SEETRAM Cont. of F8, SEETRAM okay, Scanlist 3, change in FastBus setup R48_1 F10 cont. of F9 R48_1 F11 Test of Twin: HV of both anodes now +500V, setting as before threshold of SC21 + SC41 (l+r) CFDs decreased to gain more triggers, now the main part of fragments jumps over the threshold primary beam at S2, MW21, MW22 SC21 check (calibration setting of RUN46, Feb. 1996) R48_1 F15 primary beam at S4, all settings as before, no MW21, MW22 in beam R48_1 F16 no degrader, niobium stripper only, Active Target lifted out of setup, Twin test in coincidence with MUSIC, TS4KY1+2 = 10V (was 0V) Twin anodes again 1000V R48_2 F18 same as F16, but defocus with HFSQT12 in y (set to zero), Twin anodes again 1000V Sweeping beam at S4, stopped due to low intensities because of defocussing at S2 sweeping beam at S4, stopped due to low intensities because of file, file stopped because pulser was still connected to the Twin R48_2 F20 same as F19, Twin_Ir(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin R48_2 F21 same as F20, 3. anode (upper chamber) of Twin still missing				l '
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R48_1 F5 R48_1 F6 R48_1 F6 R48_1 F7 R48_1 F8 R48_1 F8 R48_1 F8 R48_1 F9 R48_1 F9 R48_1 F9 R48_1 F9 R48_1 F10 R48_1 F10 R48_1 F11 R48_1 F10 R48_1 F11 R48_1 F10 R48_1 F11 R48_1 F10 R48_1 F11 R48_1 F11 R48_1 F12 R48_1 F12 R48_1 F12 R48_1 F12 R48_1 F13 R48_1 F13 R48_1 F14 R48_1 F15 R48_1 F15 R48_1 F15 R48_1 F15 R48_1 F15 R48_1 F16 R48_1 F17 R48_1 F17 R48_1 F18 R48_1 F19 R48_1 F19 R48_1 F19 R48_1 F19 R48_1 F19 R48_1 F10 R48_2 F17 R48_2 F17 R48_2 F19 R48_2 F19 R48_2 F19 R48_2 F19 R48_2 F10 R48_2 F20 R48_2 F30 R48_3 R3 R48_4 R3 R48_4 R3 R48_5 R3 R48_5 R3 R48_5 R3 R48_6 R3 R48_6 R3 R48_6 R3 R48_7 R3 R4		R48_1	F_4	
R48_1 F6 R48_1 F7 R48_1 F8 R48_1 F8 R48_1 F9 R48_1 F9 R48_1 F9 R48_1 F9 R48_1 F10 R48_1 F11 R48_1 F10 R48_1 F11 R48_1 F11 R48_1 F11 R48_1 F12 R48_1 F12 R48_1 F12 R48_1 F12 R48_1 F13 R48_1 F13 R48_1 F13 R48_1 F14 R48_1 F15 R48_1 F15 R48_1 F15 R48_1 F15 R48_1 F16 R48_1 F17 R48_1 F17 R48_1 F18 R48_1 F18 R48_1 F19 R48_1 F10 R48_1 F10 R48_2 F20 R48_2 F30 R48_2 F30 R48_2 F30 R48_3 R3 R48_4				, ,
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R48_2 F17 same as F16, but defocus with HFSQT12 in y (set to zero), Twin anodes again 1000V sweeping beam at S4, stopped due to low intensities because of defocussing at S2 R48_2 F19 sweeping beam at S4, defocussed at S2 and S4 (0 to 150mm), Twin: 3. anode (upper chamber) has no signals (VV?) R48_2 F20 same as F19, Twin_lr(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin R48_2 F21 same as F20, 3. anode (upper chamber) of Twin still missing				= '
R48_2 F18 Twin anodes again 1000V sweeping beam at S4, stopped due to low intensities because of defocussing at S2 sweeping beam at S4, defocussed at S2 and S4 (0 to - 150mm), Twin: 3. anode (upper chamber) has no signals (VV?) same as F19, Twin_lr(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin same as F20, 3. anode (upper chamber) of Twin still missing				,
R48_2 F18 sweeping beam at S4, stopped due to low intensities because of defocussing at S2 R48_2 F19 sweeping beam at S4, defocussed at S2 and S4 (0 to - 150mm), Twin: 3. anode (upper chamber) has no signals (VV?) R48_2 F20 same as F19, Twin_lr(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin R48_2 F21 same as F20, 3. anode (upper chamber) of Twin still missing		R48_2	F17	1
R48_2 F19 of defocussing at S2 sweeping beam at S4, defocussed at S2 and S4 (0 to - 150mm), Twin: 3. anode (upper chamber) has no signals (VV?) R48_2 F20 same as F19, Twin_lr(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin R48_2 F21 same as F20, 3. anode (upper chamber) of Twin still missing				9
R48_2 F19 sweeping beam at S4, defocussed at S2 and S4 (0 to - 150mm), Twin: 3. anode (upper chamber) has no signals (VV?) R48_2 F20 same as F19, Twin_lr(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin R48_2 F21 same as F20, 3. anode (upper chamber) of Twin still missing		R48_2	F18	1 9
R48_2 F20 Same as F19, Twin_lr(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin same as F20, 3. anode (upper chamber) of Twin still missing		-		9
R48_2 F20 (VV?) same as F19, Twin_lr(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin same as F20, 3. anode (upper chamber) of Twin still missing		R48_2	F'19	1 0
R48_2 F20 same as F19, Twin_lr(3) might be deteriorated in first part of file, file stopped because pulser was still connected to the Twin same as F20, 3. anode (upper chamber) of Twin still missing				· · · · · · · · · · · · · · · · · · ·
of file, file stopped because pulser was still connected to the Twin same as F20, 3. anode (upper chamber) of Twin still missing		D 40 0	Egg	
R48_2 F21 Twin same as F20, 3. anode (upper chamber) of Twin still missing		K48_2	F20	i i
R48_2 F21 same as F20, 3. anode (upper chamber) of Twin still missing				
, (11		D 48 9	F91	
MA8000, $0.7\mu s$, 2. anode: main ampl. Tennelec, $2\mu s$		1140-2		
R48_2 F23 same as F22, beam back on Soll values, shaping time 2.		R48 2	F23	
anode (Twin, upper chamber) set to 0.5μ s		1610_2		
R48_2 F24 Tennelec set to an amplification of 45, all anodes set to 750V		R48 2	F24	, , , , , , , , , , , , , , , , , , , ,
to be continued on next page			ı - - ·	

Isotope	DLT	File	Comment
²³⁸ U	R48_3	F25	degrader calibration, -20% setting, beam not centered at
			S4, file not readable on DLT
²³⁸ U	R48_3	F26	beam centered at S4, file not readable on DLT
$^{238}{ m U}$	R48_3	F27	-10% setting, centered with -1.8mm, file not readable on
			DLT
²³⁸ U	R48_3	F28	+10% setting, nearly centered with 2.7mm, file not readable
0.00			on DLT
238U	R48_3	F29	+20% setting, centered 1.9mm, file not readable on DLT
²³⁸ U	R48_3	F30	check position at S4
	R48_3	F31	check spectra at S3, MW31 is trigger
	R48_3	F32	check spectra at S2, MW21 is trigger
920++	R48_3	F33	check setting at S1, primary beam is 14mm off at S1
238U	R48_3	F34	energy loss set to ⁹⁰ Zr setting in 2. stage of FRS
$^{90}\mathrm{Zr}$	R48_3	F35	primary beam with 550 A MeV, focussed fragments around
	D 40 0	Tio c	Zr, additional trigger MW11, S1 slits to ± 35mm
	R48_3	F36	fragments now defocussed, during file quadrupoles were de-
			justed, result: 2.8V HFSQT12, 4.0V TS4QT12, setting as F35
	R48_3	F37	same as F36, trigger MW11 switched off
	R48_3	F38	same as F37
	R48_3	F39	paddle SW_6—SW_10 (l+r): HV increased by +100V
	R48_3	F40	paddle 7+8 tested with NIM CFD for ToF2 resolution
	R48_3	F41	— file does not exist —
	R48_3	F42	paddle 7+8 tested with NIM CFD, voltage on paddle 7
	101029	1 12	1390(1) 1330(r) and on paddle 8 1400(1) 1245(r)
			normal trigger mode
229 Pa	R48_4	F43	played with SC42 time signals, Scanlist 4
	R48_3	F44	same as F43
	R48_4	F45	cont. F44, up to 19:49 (first 11 min.) played with ToF_U
	R48_4	F46	cont. F45, voltage at SC21L adjusted, new direct coincidence
			with SC41 for master trigger, change position and ToF
	D. (C.)	D. / -	calibration due to voltage change
	R48_4	F47	cont. F46, new timing of ToF2, see protocol book, SC21L
			voltage too low, position and TOF changed
	T	1	ToF2 with improved master trigger
	R48_4	F48	cont. F47, SC21 now under full HV, first setting with
	D (0)	D 46	unchanged electronics (new HV, ToF2 okay)
	R48_4	F49	cont. F48
	R48_4	F50	cont. F49, steerer at S2 changed, curious spill structure at
	D 40 4	 	file end
	R48_4	F51	cont. F50
	R48_4	F52	cont. F51, steerer TS4KY1 adjusted
	R48_4	F53	cont. F52 — file does not exist —
	R48_4	F54	1
			to be continued on next page

Isotope	DLT	File	Comment		
	R48_4	F55	— file does not exist —		
	R48_4	F56	cont. F55		
	R48_4	F57	cont. F56		
	R48_4	F58	cont. F57		
	R48_4	F59	cont. F58		
	R48_4	F60	cont. F59		
	R48_4	F61	cont. F60, stop file due to acquisition crash, file closed		
			correctly		
	R48_5	F62	cont. F61		
	R48_5	F63	cont. F62		
	R48_5	F64	cont. F63		
			fission trigger mode		
	R48_5	F65	cont. F64, fission trigger		
	R48_5	F66	cont. F65		
	R48_5	F67	cont. F66		
	R48_5	F68	cont. F67		
	R48_5	F69	cont. F68		
	R48_5	F70	cont. F69		
	R48_5	F71	cont. F70		
	R48_5	F72	cont. F71		
	R48_5	F73	cont. F72		
	R48_5	F74	cont. F73, but start TDC ToF2 with ECL from front to rear		
			rack, change of timing		
	R48_5	F75	cont. F74		
	R48_5	F76	cont. F75		
	R48_5	F77	cont. F76		
	R48_5	F78	cont. F77		
	R48_5	F79	cont. F78, HV of ToF2 chrashed at file end		
	R48_5	F80	cont. F79, paddle 9 has to broad pedestrals		
	R48_5	F81	— file does not exist —		
	R48_5	F82	cont. F81, paddle 9 left: pedestral okay		
	ToF2 resolution improved by shielded delay lines				
	R48_5	F83	cont. F82, changes in ToF wall timing, slits at S1 were		
			closed shortly, delay lines changed to versions with shielded		
			channels		
	R48_5	F84	cont. F83, higher SEETRAM rate, breakdown of HV of ToF		
			wall at file end		
	R48_5	F85	cont. F84, HV restored		
	R48_5	F86	cont. F85		
	R48_5	F87	cont. F86		
	R48_5	F88	cont. F87, paddle 8: open outputs were closed with 50Ω ,		
			beam in y adjusted, equal intensities in paddle 7+9, paddle		
			8 disconnected from CFD		
	R48_5	F89	cont. F88, SEETRAM sensitivity now at 10 ⁻⁹		
			to be continued on next page		

Isotope	DLT	File	Comment
	R48_6	F90	cont. F89
	R48_6	F91	cont. F90
	R48_6	F92	cont. F91
	R48_6	F93	cont. F92
	R48_6	F94	cont. F93
	R48_6	F95	cont. F94
	R48_6	F96	cont. F95
			fission trigger mode
²²² Th	R48_6	F97	new setting with fission trigger, paddle 8 in again
	R48_6	F98	cont. F97
	R48_6	F99	cont. F98
	R48_6	F100	cont. F99
	R48_6	F101	cont. F100
	R48_6	F102	cont. F101
	R48_6	F103	cont. F102
	R48_6	F104	cont. F103, TS1QD12 breakdown for a short period
	R48_6	F105	cont. F104
	R48_6	F106	cont. F105, people played on Twin time signals during this
			file, time signals of Twin are all mixed up (since when?)
	R48_6	F107	cont. F106
	R48_6	F108	cont. F107
	R48_6	F109	cont. F108
	R48_7	F110	cont. F109
	R48_7	F111	cont. F110
	R48_7	F112	cont. F111, closed because of problems with ion source
	R48_7	F113	cont. F112, low counting rate, only 6 minutes
	R48_7	F114	cont. F113, counting rate is increasing
	R48_7	F115	cont. F114
	R48_7	F116	cont. F115
	R48_7	F117	cont. F116
	R48_7	F118	cont. F117
	R48_7	F119	cont. F118
	R48_7	F120	cont. F119
	R48_7	F121	cont. F120
	R48_7	F122	cont. F121
	R48_7	F123	cont. F122, file was opened twice
	R48_7	F124	cont. F123
	R48_7	F125	cont. F124
	R48_7	F126	cont. F125 cont. F126
	R48_7 R48_7	F127	cont. F126 cont. F127
	R48_7	F128 F129	cont. F127 cont. F128
	R48_7	F130	cont. F128 cont. F129
	R48_8	F131	cont. F130
			to be continued on next page

Isotope	DLT	File	Comment		
	R48_8	F132	cont. F131		
	R48_8	F133	cont. F132		
	R48_8	F134	cont. F133		
	1010_0	1 101	normal trigger mode		
	R48_8	F135	cont. F134, normal fission trigger mode, closed due to change		
	K40_0	L 199	of source		
	R48_8	F136	cont. F135, continue with new ion source		
	R48_8	F137	cont. F136		
	R48_8	F138	cont. F137		
	R48_8	F139	cont. F138		
-	1010_0	1 100	normal trigger mode		
$^{215}\mathrm{Ac}$	R48_8	F140	new setting with normal trigger, ToF2 high voltage		
AC	11.40_0	1 140	chrashed		
	R48_8	F141	cont. F140, opened twice by accident		
	R48_8	F141	cont. F140, opened twice by accident cont. F141		
	R48_8	F143	cont. F142		
	R48_8	F144	cont. F143		
	R48_8	F145	cont. F144		
	R48_8	F146	cont. F145		
fission trigger mode					
	R48_8	F147	cont. F146, set to fission trigger, but wrong trigger		
	R48_8	F148	cont. F147, stopped due to missing FastBus data		
	R48_8	F149	cont. F148, fist correct file of ²¹⁵ Ac		
	R48_8	F150	cont. F149		
	R48_8	F151	cont. F150		
	R48_9	F152	cont. F151, closed due to source problems		
	R48_9	F153	cont. F152, beam back, but weak		
	R48_9	F154	cont. F153, closed because no beam anymore		
	R48_9	F155	cont. F154		
	R48_9	F156	cont. F155		
	R48_9	F157	cont. F156		
	R48_9	F158	cont. F157		
	R48_9	F159	cont. F158		
	R48 _ 9	F160	cont. F159		
	R48 _ 9	F161	cont. F160		
	R48_9	F162	cont. F161		
	R48_9	F163	cont. F162		
	R48_9	F164	cont. F163		
	R48_9	F165	cont. F164, no "F" in filename		
	R48_9	F166	cont. F165		
011	normal trigger mode				
211 Ra	R48_10	F167	new setting with normal trigger, TS4KY1 = 0 V		
	R48_10	F168	cont. F167		
to be continued on next page					

R48_10	Isotope	DLT	File	Comment			
R48_10		R48_10	F169	cont. F168, TS4KY1 = 6 V			
R48_10							
R48_10							
R48_10							
R48.10 F173 cont. F172 cont. F173 R48.10 F174 cont. F173 cont. F174 R48.10 F176 cont. F175 cont. F175 R48.10 F177 cont. F176 beam loss cont. F177 cont. F178 cont. F178 cont. F178 cont. F179 R48.10 F180 cont. F180 cont. F180 R48.10 F181 cont. F180 R48.10 F181 cont. F182 cont. F181 R48.10 F183 cont. F182 R48.10 F185 cont. F185 R48.11 F186 cont. F185 R48.11 F187 cont. F186 R48.11 F188 cont. F188 R48.11 F199 cont. F189 R48.11 F190 cont. F189 R48.11 F191 cont. F190 cont. F191 R48.11 F194 cont. F193 R48.11 F195 cont. F195 R48.11 F196 cont. F195 R48.11 F197 cont. F196 R48.11 F197 cont. F196 R48.11 F199 cont. F196 R48.11 F199 cont. F196 R48.11 F197 cont. F196 R48.11 F197 cont. F196 R48.11 F197 cont. F196 R48.11 F199 cont. F196 R48.11 F199 cont. F196 R48.11 F190 cont. F196 R48.11 F190 cont. F190 R48.11 F190 cont. F190 R48.11 F200 cont. F200 R48.11 F200 cont. F200 R48.11 F203 cont. F202 R48.11 F204 cont. F205 R48.11 F205 cont. F206 R48.11 F207 cont. F206 R48.11 F208 cont. F207 cont. F206 R48.11 F208 cont. F207 cont. F206 cont. F207 cont. F206 cont. F207 cont. F206 cont. F207 cont. F206 cont. F207 cont. F207 cont. F207 cont. F207 cont. F206 cont. F207 cont. F206 cont. F207 cont. F206 cont. F207 cont. F206 cont. F207 cont.		R48_10	F172	cont. F171			
R48_10 F174 cont. F173 R48_10 F175 cont. F174 R48_10 F176 cont. F175 R48_10 F177 cont. F176 beam loss R48_10 F178 cont. F177 R48_10 F179 cont. F178 R48_10 F180 cont. F179 R48_10 F181 cont. F180 R48_10 F181 cont. F180 R48_10 F182 cont. F181 R48_10 F183 cont. F182 R48_10 F184 cont. F183 R48_10 F185 cont. F185 R48_11 F186 cont. F185 R48_11 F187 cont. F185 R48_11 F187 cont. F188 R48_11 F188 cont. F188 R48_11 F190 cont. F188 R48_11 F191 cont. F190 R48_11 F191 cont. F190 R48_11 F195 cont. F193 R48_11 F195 cont. F193 R48_11 F196 cont. F193 R48_11 F196 cont. F195 R48_11 F196 cont. F197 R48_11 F197 cont. F196 R48_11 F197 cont. F196 R48_11 F197 cont. F198 R48_11 F200 cont. F200 R48_11 F200 cont. F200 R48_11 F201 cont. F200 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207 cont. F206 R48_11 F208 cont. F206 R48_11 F208 cont. F207 cont. F208 R48_11 F208 cont. F207 cont. F208 R48_11 F208 cont. F208 c							
R48_10 F175 cont. F175 R48_10 F176 cont. F175 R48_10 F177 cont. F175 R48_10 F178 cont. F177 R48_10 F179 cont. F178 R48_10 F180 cont. F179 R48_10 F181 cont. F180 R48_10 F181 cont. F180 R48_10 F182 cont. F181 R48_10 F183 cont. F183 R48_10 F184 cont. F183 R48_10 F185 cont. F185 R48_10 F185 cont. F185 R48_10 F185 cont. F185 R48_11 F186 cont. F186 R48_11 F187 cont. F186 R48_11 F189 cont. F188 R48_11 F190 cont. F189 R48_11 F191 cont. F190 cont. F190 range F191 range range							
R48_10							
R48_10							
R48_10			F177	cont. F176, beam loss			
R48_10				,			
R48_10			F179	cont. F178			
R48_10 F182 cont. F182 R48_10 F183 cont. F183 R48_10 F185 cont. F183 R48_10 F185 cont. F184 R48_10 F185 cont. F186 R48_11 F186 cont. F186 R48_11 F189 cont. F187 R48_11 F190 cont. F189 R48_11 F191 cont. F190 fission trigger mode **** bission trigger, TS4KY1 = 6 V R48_11 F191 cont. F190 R48_11 F193 cont. F192 R48_11 F194 cont. F193 R48_11 F195 cont. F194 R48_11 F196 cont. F195 R48_11 F196 cont. F196 R48_11 F197 cont. F196 R48_11 F199 cont. F197 R48_11 F199 cont. F198 R48_11 F200 cont. F200 R48_11 F201 cont. F201 R48_11		R48_10	F180	cont. F179			
R48_10		R48_10	F181	cont. F180			
R48_10			F182	cont. F181			
R48_10		R48_10	F183	cont. F182			
R48_10 F186 cont. F186 R48_11 F187 cont. F186 R48_11 F188 cont. F188 R48_11 F189 cont. F189 R48_11 F190 cont. F190 fission trigger mode Evaluation of F191 R48_11 F192 new setting with fission trigger, TS4KY1 = 6 V R48_11 F193 cont. F192 R48_11 F194 cont. F193 R48_11 F195 cont. F194 R48_11 F196 cont. F195 R48_11 F197 cont. F196 R48_11 F197 cont. F196 R48_11 F199 cont. F197 R48_11 F200 cont. F199 R48_11 F200 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F203 R48_11 F204 cont. F204 R48_11 F206 cont. F205 R48_11 F206 cont. F206			F184	cont. F183			
R48_11 F187 cont. F186 R48_11 F188 cont. F187 R48_11 F189 cont. F188 R48_11 F190 cont. F189 R48_11 F191 cont. F190		R48_10	F185	cont. F184			
R48_11 F188 cont. F187 R48_11 F190 cont. F189 R48_11 F190 cont. F189 R48_11 F191 cont. F190 fission trigger mode 226Pa R48_11 F192 new setting with fission trigger, TS4KY1 = 6 V R48_11 F193 cont. F192 R48_11 F194 cont. F193 R48_11 F195 cont. F194 R48_11 F195 cont. F194 R48_11 F196 cont. F195 R48_11 F197 cont. F196 R48_11 F198 cont. F197 R48_11 F200 cont. F198 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F205 cont. F203 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207		R48_10	F186	cont. F185			
R48_11 F188 cont. F187 R48_11 F190 cont. F189 R48_11 F190 cont. F189 R48_11 F191 cont. F190 fission trigger mode 226Pa R48_11 F192 new setting with fission trigger, TS4KY1 = 6 V R48_11 F193 cont. F192 R48_11 F194 cont. F193 R48_11 F195 cont. F194 R48_11 F195 cont. F194 R48_11 F196 cont. F195 R48_11 F197 cont. F196 R48_11 F198 cont. F197 R48_11 F200 cont. F198 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F205 cont. F203 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207		R48_11	F187	cont. F186			
R48_11							
R48_11							
R48_11							
R48_11							
R48_11 F193 cont. F192 R48_11 F194 cont. F193 R48_11 F195 cont. F194 R48_11 F196 cont. F195 R48_11 F197 cont. F196 R48_11 F198 cont. F197 R48_11 F199 cont. F198 R48_11 F200 cont. F199 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F201 R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F207 cont. F206 R48_11 F208 cont. F207		L		fission trigger mode			
R48_11 F194 cont. F193 R48_11 F195 cont. F194 R48_11 F196 cont. F195 R48_11 F197 cont. F196 R48_11 F198 cont. F197 R48_11 F199 cont. F198 R48_11 F200 cont. F199 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207 R48_11 F208 cont. F207	²²⁶ Pa	R48_11	F192	new setting with fission trigger, TS4KY1 = 6 V			
R48_11 F195 cont. F194 R48_11 F196 cont. F195 R48_11 F197 cont. F196 R48_11 F198 cont. F197 R48_11 F199 cont. F198 R48_11 F200 cont. F199 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F201 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F206 R48_11 F208 cont. F207		R48_11	F193	cont. F192			
R48_11 F196 cont. F195 R48_11 F197 cont. F196 R48_11 F198 cont. F197 R48_11 F199 cont. F198 R48_11 F200 cont. F199 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207		R48_11	F194	cont. F193			
R48_11 F197 cont. F196 R48_11 F198 cont. F197 R48_11 F199 cont. F198 R48_11 F200 cont. F199 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207		R48_11	F195	cont. F194			
R48_11 F198 cont. F197 R48_11 F199 cont. F198 R48_11 F200 cont. F199 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207		R48_11	F196	cont. F195			
R48_11 F199 cont. F198 R48_11 F200 cont. F199 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207 R48_12 F209 cont. F208		R48_11	F197	cont. F196			
R48_11 F200 cont. F199 R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207		R48_11		cont. F197			
R48_11 F201 cont. F200 R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207							
R48_11 F202 cont. F201 R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207							
R48_11 F203 cont. F202 R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207		R48_11					
R48_11 F204 cont. F203 R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207		R48_11					
R48_11 F205 cont. F204 R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207							
R48_11 F206 cont. F205 R48_11 F207 cont. F206 R48_11 F208 cont. F207 R48_12 F209 cont. F208							
R48_11 F207 cont. F206 R48_11 F208 cont. F207 R48_12 F209 cont. F208							
R48_11 F208 cont. F207 R48_12 F209 cont. F208							
R48_12 F209 cont. F208							
		R48_11	F'208				
D 10 10 D010 1 D000		R48_12					
K48_12 F210 cont. F209		R48_12	F210	cont. F209			
to be continued on next page							

Isotope	DLT	File	Comment
	R48_12	F211	cont. F210
	R48_12	F212	cont. F211
	R48_12	F213	cont. F212
	R48_12	F214	cont. F213
	R48_12	F215	cont. F214
	R48_12	F216	Position calibration at S2
	R48_12	F217	cont. F215
	R48_12	F218	cont. F217
	R48_12	F219	cont. F218
	R48_12	F220	cont. F219
	R48_12	F221	cont. F220
	R48_12	F222	cont. F221
			normal trigger mode
	R48_12	F223	cont. F222
	R48_12	F224	cont. F223
	R48_12	F225	cont. F224
	R48_12	F226	cont. F225
			fission trigger mode
	R48_12	F227	cont. F226, source change
	R48_13	F228	cont. F227
	R48_13	F229	cont. F228, 5 s spills
	R48_13	F230	cont. F229
	R48_13	F231	cont. F230
	R48_13	F232	cont. F231
	R48_13	F233	cont. F232
	R48_13	F234	cont. F233, spill length increased to 8 s during this file
	R48_13	F235	cont. F234, spill length 8 s
	R48_13	F236	cont. F235
	R48_13	F237	cont. F236
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