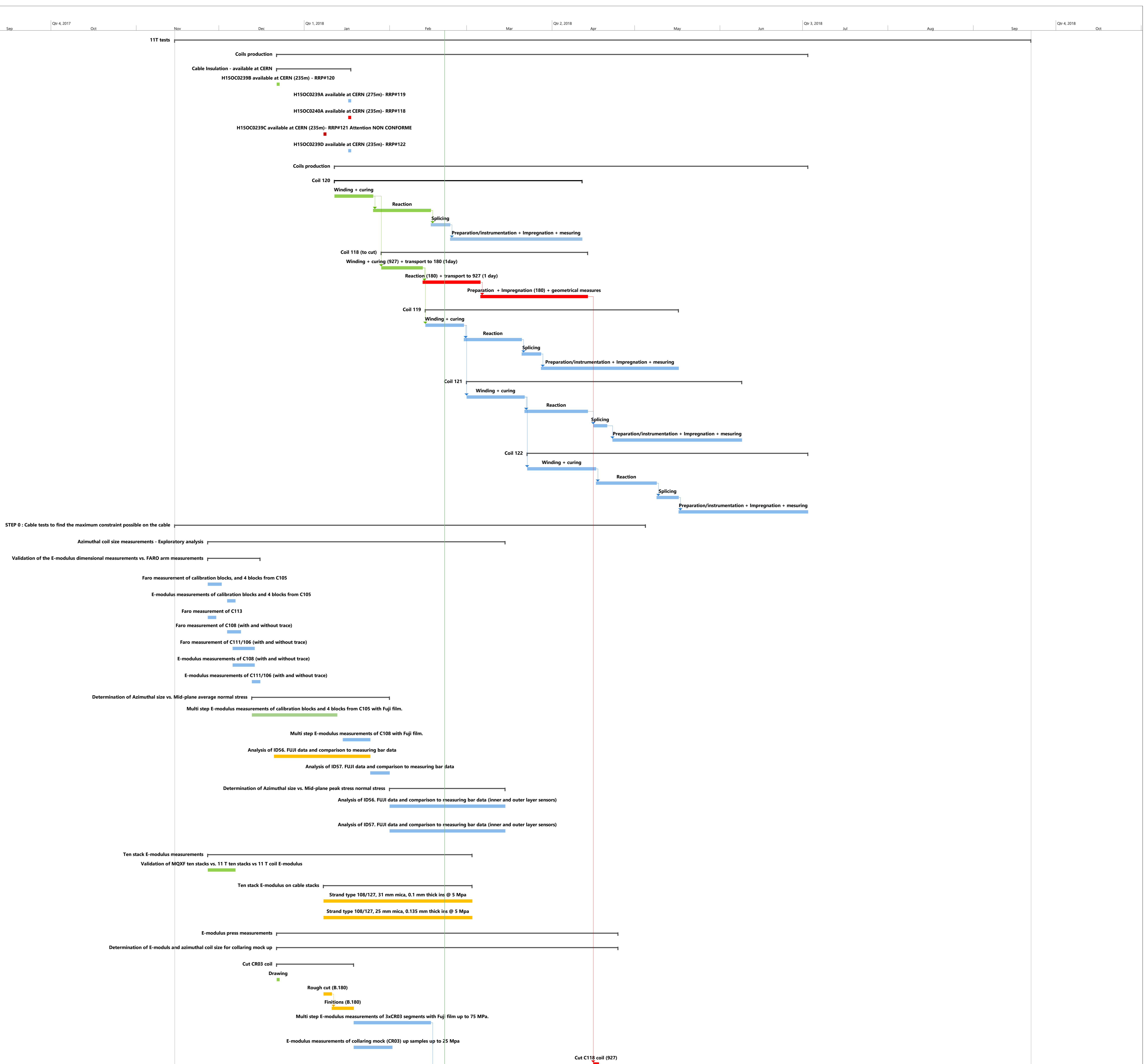


ID	Task Name	Duration	Start	Finish	Predecessors	Components
1	11T tests	207 days	Wed 15/11/17	Fri 21/09/18		
2	Coils production	122 days	Fri 22/12/17	Mon 02/07/18		
3	Cable insulation - available at CERN	9 days	Fri 22/12/17	Wed 17/01/18		
4	H1SOC0239B available at CERN (235m) - RRP#120	1 day	Fri 22/12/17	Fri 22/12/17		
5	H1SOC0239A available at CERN (275m)- RRP#119	1 day	Wed 17/01/18	Wed 17/01/18		
6	H1SOC0240A available at CERN (235m)- RRP#118	1 day	Wed 17/01/18	Wed 17/01/18		
7	H1SOC0239C available at CERN (235m)- RRP#121 Attention NON CONFORME	1 day	Mon 08/01/18	Mon 08/01/18		
8	H1SOC0239D available at CERN (235m)- RRP#122	1 day	Wed 17/01/18	Wed 17/01/18		
9	Coils production	117 days	Fri 12/01/18	Mon 02/07/18		
10	Coil 120	62 days	Fri 12/01/18	Wed 11/04/18		All available
11	Winding + curing	10 days	Fri 12/01/18	Thu 25/01/18		
12	Reaction	15 days	Fri 26/01/18	Thu 15/02/18	11	
13	Splicing	5 days	Fri 16/02/18	Thu 22/02/18	12	
14	Preparation/instrumentation + Impregnation + mesuring	32 days	Fri 23/02/18	Wed 11/04/18	13	
15	Coil 118 (to cut)	53 days	Mon 29/01/18	Fri 13/04/18		All available, End spacers G11 in metrology
16	Winding + curing (927) + transport to 180 (1day)	11 days	Mon 29/01/18	Mon 12/02/18	11	
17	Reaction (180) + transport to 927 (1 day)	15 days	Tue 13/02/18	Mon 05/03/18	16	
18	Preparation + Impregnation (180) + geometrical measures	27 days	Tue 06/03/18	Fri 13/04/18	17	
19	Coil 119	62 days	Wed 14/02/18	Wed 16/05/18		
20	Winding + curing	10 days	Wed 14/02/18	Tue 27/02/18	16FS+1 day	All available
21	Reaction	15 days	Wed 28/02/18	Tue 20/03/18	20	
22	Splicing	5 days	Wed 21/03/18	Tue 27/03/18	21	
23	Preparation/instrumentation + Impregnation + mesuring	32 days	Wed 28/03/18	Wed 16/05/18	22	
24	Coil 121	67 days	Thu 01/03/18	Fri 08/06/18		
25	Winding + curing	15 days	Thu 01/03/18	Wed 21/03/18	20FS+1 day	
26	Reaction	15 days	Thu 22/03/18	Fri 13/04/18	25	
27	Splicing	5 days	Mon 16/04/18	Fri 20/04/18	26	
28	Preparation/instrumentation + Impregnation + mesuring	32 days	Mon 23/04/18	Fri 08/06/18	27	
29	Coil 122	67 days	Fri 23/03/18	Mon 02/07/18		
30	Winding + curing	15 days	Fri 23/03/18	Mon 16/04/18	25FS+1 day	
31	Reaction	15 days	Tue 17/04/18	Tue 08/05/18	30	
32	Splicing	5 days	Wed 09/05/18	Wed 16/05/18	31	
33	Preparation/instrumentation + Impregnation + mesuring	32 days	Thu 17/05/18	Mon 02/07/18	32	
34	STEP 0 : Cable tests to find the maximum constraint possible on the cable	110 days	Wed 15/11/17	Fri 04/05/18		
45	Azimuthal coil size measurements - Exploratory analysis	68 days	Mon 27/11/17	Wed 14/03/18		
46	Validation of the E-modulus dimensional measurements vs. FARO arm measurements	15 days	Mon 27/11/17	Fri 15/12/17		
47	Faro measurement of calibration blocks, and 4 blocks from C105	5 days	Mon 27/11/17	Fri 01/12/17		
48	E-modulus measurements of calibration blocks and 4 blocks from C105	3 days	Mon 04/12/17	Wed 06/12/17		
49	Faro measurement of C113	3 days	Mon 27/11/17	Wed 29/11/17		
50	Faro measurement of C108 (with and without trace)	5 days	Mon 04/12/17	Fri 08/12/17		
51	Faro measurement of C111/106 (with and without trace)	6 days	Wed 06/12/17	Wed 13/12/17		
52	E-modulus measurements of C108 (with and without trace)	6 days	Wed 06/12/17	Wed 13/12/17		
53	E-modulus measurements of C111/106 (with and without trace)	3 days	Wed 13/12/17	Fri 15/12/17		
54	Determination of Azimuthal size vs. Mid-plane average normal stress	26 days	Wed 13/12/17	Wed 31/01/18		
55	Multi step E-modulus measurements of calibration blocks and 4 blocks from C105 with Fuji film.	13 days	Wed 13/12/17	Fri 12/01/18		
56	Multi step E-modulus measurements of C108 with Fuji film.	8 days	Mon 15/01/18	Wed 24/01/18		
57	Analysis of IDS6, FUJI data and comparison to measuring bar data	15 days	Thu 21/12/17	Wed 24/01/18		
58	Analysis of IDS7, FUJI data and comparison to measuring bar data	5 days	Thu 25/01/18	Wed 31/01/18		
59	Determination of Azimuthal size vs. Mid-plane peak stress normal stress	30 days	Thu 01/02/18	Wed 14/03/18		
60	Analysis of IDS6, FUJI data and comparison to measuring bar data (inner and outer layer sensors)	30 days	Thu 01/02/18	Wed 14/03/18		
61	Analysis of IDS7, FUJI data and comparison to measuring bar data (inner and outer layer sensors)	30 days	Thu 01/02/18	Wed 14/03/18		
62	Ten stack E-modulus measurements	60 days	Mon 27/11/17	Fri 02/03/18		
63	Validation of MQXF ten stacks vs. 11 T ten stacks vs 11 T coil E-modulus	8 days	Mon 27/11/17	Wed 06/12/17		
64	Ten stack E-modulus on cable stacks	40 days	Mon 08/01/18	Fri 02/03/18		
65	Strand type 108/127, 31 mm mica, 0.1 mm thick ins @ 5 Mpa	40 days	Mon 08/01/18	Fri 02/03/18		
66	Strand type 108/127, 25 mm mica, 0.135 mm thick ins @ 5 Mpa	40 days	Mon 08/01/18	Fri 02/03/18		
67	E-modulus press measurements	76 days	Fri 22/12/17	Tue 24/04/18		
68	Determination of E-modulus and azimuthal coil size for collaring mock up	76 days	Fri 22/12/17	Tue 24/04/18		
69	Cut CR03 coil	10 days	Fri 22/12/17	Thu 18/01/18		
70	Drawing	1 day	Fri 22/12/17	Fri 22/12/17		
71	Rough cut (B.180)	3 days	Mon 08/01/18	Wed 10/01/18		
72	Finitions (B.180)	6 days	Thu 11/01/18	Thu 18/01/18	71	
73	Multi step E-modulus measurements of 3xCR03 segments with Fuji film up to 75 MPa.	20 days	Fri 19/01/18	Thu 15/02/18		
74	E-modulus measurements of collaring mock (CR03) up samples up to 25 Mpa	10 days	Fri 19/01/18	Thu 01/02/18		
75	Cut C118 coil (927)	2 days	Mon 16/04/18	Tue 17/04/18		



ID	Task Name	Duration	Start	Finish	Predecessors	Components
76	Multi step E-modulus measurements C118 segments with Fuji film up to 75 MPa.	5 days	Wed 18/04/18	Tue 24/04/18	75	
77	E-modulus measurements of collaring mock (C118) up samples up to 25 Mpa	5 days	Wed 18/04/18	Tue 24/04/18	75	
78	Faro arm measurements	95 days	Mon 27/11/17	Tue 24/04/18		
79	Determination of azimuthal coil size for collaring mock up	95 days	Mon 27/11/17	Tue 24/04/18		
80	Faro arm measurement for first collaring mock up (C105 and 107)	5 days	Mon 27/11/17	Fri 01/12/17		
81	Faro arm measurement for second collaring mock up (CR03)	5 days	Fri 19/01/18	Thu 25/01/18		
82	Faro arm measurement for second collaring mock up (C118)	5 days	Wed 18/04/18	Tue 24/04/18	75	
83	Pressure uniformity measurements	70 days	Mon 15/01/18	Tue 24/04/18		
84	Investigation of pressure uniformity on non-reacted, nor impregnated conductors at 5 MPa and 30 MPa applied pressure	10 days	Mon 15/01/18	Fri 26/01/18		
85	Fuji film analysis, on RRP 108/127-31 mm mica, 0.1 mm thick ins @ 5 MPa	10 days	Mon 15/01/18	Fri 26/01/18		
86	Fuji film analysis, on RRP 108/127-25 mm mica, 0.135 mm thick ins @ 5 MPa	10 days	Mon 15/01/18	Fri 26/01/18		
87	Investigation of pressure uniformity on ten stacks at 5 MPa, 30 MPa and 70 MPa applied pressure	5 days	Mon 26/02/18	Fri 02/03/18		
88	Fuji film analysis, on RRP 108/127-31 mm mica, 0.1 mm thick ins @ 5 MPa	5 days	Mon 26/02/18	Fri 02/03/18		
89	Fuji film analysis, on RRP 108/127-25 mm mica, 0.135 mm thick ins @ 5 MPa	5 days	Mon 26/02/18	Fri 02/03/18		
90	Investigation of pressure uniformity on coils at 5 MPa, 30 MPa and 70 MPa applied pressure	65 days	Mon 22/01/18	Tue 24/04/18		
91	Fuji film analysis, on coil CR03	10 days	Mon 22/01/18	Fri 02/02/18		
92	Fuji film analysis, on coil 118	5 days	Wed 18/04/18	Tue 24/04/18	75	
93	Collaring	190 days	Fri 08/12/17	Fri 21/09/18		
94	1 test on 150 mm sample (to validate instrumentation and methodology) with 3 shims - CR107	21 days	Fri 08/12/17	Fri 19/01/18		
95	First test - shim 0,6mm	11 days	Fri 08/12/17	Fri 29/12/17		
96	Second test - shim 0,7mm	4 days	Fri 22/12/17	Wed 10/01/18		
97	Third test - shim 0,8mm	7 days	Thu 11/01/18	Fri 19/01/18		
98	3 collaring with the CR03, 3 shims each	75 days	Fri 22/12/17	Mon 23/04/18		
99	Preparation of the samples	16 days	Fri 22/12/17	Fri 26/01/18		
100	First sample (average Section)	15 days	Fri 16/02/18	Thu 08/03/18	73,81	
101	First test - shim 0,6mm	5 days	Fri 16/02/18	Thu 22/02/18		
102	Second test - shim 0,7mm	5 days	Fri 23/02/18	Thu 01/03/18	101	
103	Third test - shim 0,8mm	5 days	Fri 02/03/18	Thu 08/03/18	102	
104	Second sample (Maximum Section)	15 days	Fri 09/03/18	Thu 29/03/18		
105	First test - shim 0,6mm	5 days	Fri 09/03/18	Thu 15/03/18	103	
106	Second test - shim 0,7mm	5 days	Fri 16/03/18	Thu 22/03/18	105	
107	Third test - shim 0,8mm	5 days	Fri 23/03/18	Thu 29/03/18	106	
108	Third sample (average Section)	15 days	Tue 03/04/18	Mon 23/04/18		
109	First test - shim 0,6mm	5 days	Tue 03/04/18	Mon 09/04/18	107	
110	Second test - shim 0,7mm	5 days	Tue 10/04/18	Mon 16/04/18	109	
111	Third test - shim 0,8mm	5 days	Tue 17/04/18	Mon 23/04/18	110	
112	Data analysis	45 days	Fri 16/02/18	Mon 23/04/18		
113	Last collaring mock up (2 collarings) - Coil 118	10 days	Wed 25/04/18	Wed 09/05/18	82,76	
114	Magnets Assembly	120 days	Tue 03/04/18	Fri 21/09/18		
115	Assembly of the MBHSP107	66 days	Tue 03/04/18	Fri 06/07/18		
116	Isolation (927)	10 days	Thu 17/05/18	Thu 31/05/18		
117	Collaring + magnetic measurements (927)	6 days	Fri 01/06/18	Fri 08/06/18	116	
118	Shell instrumentation	5 days	Tue 03/04/18	Mon 09/04/18		
119	Yoke installation + shrinking cylinder welding (180)	6 days	Mon 11/06/18	Mon 18/06/18	117	
120	Splicing, instrumentation, electrical measurement	14 days	Tue 19/06/18	Fri 06/07/18	119	
121	Assembly of the MBHSP108	38 days	Tue 03/07/18	Thu 23/08/18		
122	Isolation (927)	10 days	Tue 03/07/18	Mon 16/07/18		
123	Collaring + magnetic measurements (927)	6 days	Tue 17/07/18	Tue 24/07/18	122	
124	Yoke installation + shrinking cylinder welding (180)	6 days	Wed 25/07/18	Wed 01/08/18	123	
125	Work at 927 : Splicing, instrumentation, electrical/ magnetic measurement	16 days	Thu 02/08/18	Thu 23/08/18	124	
126	Cold tests in SM18 (FRESCA 2)	54 days	Mon 09/07/18	Fri 21/09/18		
127	Preparation MBHSP107	5 days	Mon 09/07/18	Fri 13/07/18	115	
128	Tests MBHSP107	15 days	Mon 16/07/18	Fri 03/08/18	127	
129	Preparation MBHSP108	5 days	Fri 24/08/18	Thu 30/08/18	121	
130	Tests MBHSP108	15 days	Fri 31/08/18	Fri 21/09/18	129	
131	Magnetic measurement SP107 - 927	30 days	Mon 06/08/18	Mon 17/09/18	128	
132	Magnetic measurement SP107 - 927	2 days	Mon 06/08/18	Tue 07/08/18		
133	Magnetic measurement SP108 - 927	2 days	Fri 14/09/18	Mon 17/09/18		

