10) ¹² -	$M_{\rm L}$ =0.5 $M_{\rm W}$ =0.8	-	$M_{L}=0.3 M_{W}=0.7$	$M_{L}=0.6 M_{W}=0.9$	$M_{L}=0.7 M_{W}=0.9$	$M_{L}=0.6 M_{w}=0.8$	$M_{L}=1.1 M_{w}=1.1$	$M_{L}=0.4 M_{W}=0.8$
10) ¹⁰ -	f _c =72.7 Hz		f _c =75.8 Hz	f _c =56.5 Hz	f _c =72.6 Hz	f _c =65.3 Hz	f _c =64.5 Hz	f _c =55.5 Hz
		2018156105500	2018156132827	2018157010141	2018157013858	2018157121700	2018158072013	2018158204112	2018159000959
10)12 -	M_L =0.3 M_w =0.6 f_c =73.5 Hz	$M_L=0.8 M_w=1.0$ $f_c=76.0 \text{ Hz}$		$M_L=0.5 M_w=0.8$ $f_c=70.2 Hz$	$M_L=0.6 M_w=0.8$ $f_c=77.9 Hz$	$-\frac{M_{L}=0.5 \ M_{w}=0.8}{f_{c}=71.0 \ Hz}$	$M_L=1.0 M_w=1.4$ $f_c=54.9 Hz$	$-\frac{M_{L}=0.9\ M_{w}=1.1}{f_{c}=52.5\ Hz}$
10) ¹⁰ -			-			-		
		2018159011231	2018159035257	2018159044000	2018159120046	2018159152310	2018160051518	2018160054115	2018160102510
10)12 -	M_{L} =0.7 M_{w} =1.0 f_{c} =68.3 Hz	$M_L=0.4 M_w=0.6$ $f_c=86.3 \text{ Hz}$		$M_L = 0.6 M_w = 0.9$ $f_c = 58.9 \text{ Hz}$	$M_L=0.6 M_w=0.8$ $f_c=82.2 Hz$	$M_L = 0.8 M_w = 1.0$ $f_c = 75.2 \text{ Hz}$	$M_L=0.2 M_w=0.5$ $f_c=98.4 \text{ Hz}$	- M _L =1.4 M _w =1.6
10) ¹⁰ -			-			-		-
		2018160135358	2018160181943	2018160211026	2018161004449	2018161102425	2018161172544	2018162012825	2018162052548
10)12 -	M_{L} =0.6 M_{w} =0.7 f_{c} =84.9 Hz	$M_L=0.6 M_w=0.7$ $f_c=72.3 Hz$			$M_L=0.9 M_w=1.1$ $f_c=59.5 Hz$	$M_L=0.7 M_w=0.9$ $f_c=73.7 Hz$	$M_L=0.9 M_w=1.2$ $f_c=60.5 Hz$	$-\frac{M_{L}=0.7\ M_{w}=0.9}{f_{c}=63.7\ Hz}$
10) ¹⁰ -	-		-	-	-		-	-
1.0		2018162102701	2018162103517	2018162124708	2018162134139	2018162195803	2018162224749	2018163001121	2018163031320
10)** -		$M_L = 0.5 M_w = 0.8$ $f_c = 59.6 \text{ Hz}$		$M_{L}=1.0 M_{W}=1.3$ $f_{c}=50.4 Hz$	$M_L=0.7 M_w=0.8$ $f_c=75.6 Hz$	$- M_{L}=0.5 M_{w}=0.7$ $f_{c}=64.9 Hz$	$M_L=0.2 M_w=0.5$ $f_c=77.7 Hz$	$\begin{array}{c} - & M_{L} = 0.4 \ M_{w} = 0.7 \\ f_{c} = 82.2 \ Hz \end{array}$
10) ¹⁰ -	2018163115829	2018163132124	2018164031000	2018165002042	2018165152357	2018165200500	2018166021841	2018166111647
10] 12 -	$M_{L}=1.0 \ M_{W}=1.2$	$M_{L}=0.4 M_{W}=0.6$		$M_{L}=0.4 \ M_{W}=0.7$	$M_{L}=0.6 M_{W}=0.8$	$M_{L}=0.4 M_{W}=0.4$	$M_{L}=0.4 M_{W}=0.6$	$M_{L}=0.8 M_{W}=1.1$
	-	f _c =71.3 Hz	f _c =65.4 Hz		f _c =79.4 Hz	f _c =71.6 Hz	f _c =82.8 Hz	f _c =73.0 Hz	f _c =51.6 Hz
10) ¹⁰ -	2018168094946	2018168112428	2018169024000	2018169033430	2018169042045	2018169213726	2018169230658	2018170012100
10) ¹² -	M_{L} =0.6 M_{w} =0.8 f_{c} =77.0 Hz	- $M_L=0.4 M_w=0.7$ $f_c=52.9 Hz$		-	$M_{L}=0.8 M_{W}=1.0$ $f_{c}=66.0 \text{ Hz}$	$M_{L}=0.7 M_{W}=0.9$ $f_{c}=54.1 \text{ Hz}$	$M_{L}=0.7 M_{w}=0.8$ $f_{c}=55.2 Hz$	$-\frac{M_{L}=0.5 \ M_{w}=0.7}{f_{c}=64.3 \ Hz}$
10) ¹⁰ -			_					
		2018170013500	2018170022530	2018170070706	2018170141444	2018170145100	2018170191546	2018170200105	2018170210141
10)12 -	M _L =1.3 M _w =1.6 =50.9 Hz -	$M_{L}=0.8 M_{w}=0.9$ $f_{c}=51.0 \text{ Hz}$		-	$M_L=0.7 M_w=0.9$ $f_c=68.8 Hz$	$-\frac{M_{L}=0.8\ M_{w}=0.9}{f_{c}=57.6\ Hz}$	$-\frac{M_{L}=0.6\ M_{w}=0.7}{f_{c}=77.5\ Hz}$	$M_L=0.6 M_w=0.7$ $f_c=76.6 \text{ Hz}$
10) ¹⁰ -	- 400			-	-			-
		2018171001230	2018171003700	2018171005900	2018171034700	2018171100309	2018171100500	2018171101020	2018171113245
10)12 -		M_{L} =0.8 M_{w} =1.0 f_{c} =66.1 Hz		6 M _m =1.9 - f _c =16.7 Hz	M_L =0.4 M_w =0.7 f_c =71.3 Hz	$M_L = 0.8 M_w = 1.0$ $f_c = 44.7 \text{ Hz}$	$M_{L}=0.5 M_{w}=0.7 f_{c}=64.3 Hz$	-
10) ¹⁰ -	•			1	-		-	-
-) ¹² 「	2018171120032 	2018171170704 	2018171173814 	2018171232614 	2018171233929 	2018172001100 	2018172010600 	2018172041700
10)12 -	M_{L} =0.6 M_{w} =0.7 f_{c} =70.2 Hz	$M_{L}=0.8 M_{W}=1.0$ $f_{c}=68.8 \text{ Hz}$		$- M_{L}=0.8 M_{w}=1.1 f_{c}=51.1 Hz$	$M_L=0.8 M_w=1.0$ $f_c=61.4 Hz$	$M_L = 0.7 M_w = 0.9$ $f_c = 68.4 \text{ Hz}$	$\begin{array}{c} - & M_{L} = 0.4 \ M_{W} = 0.6 \\ f_{c} = 77.5 \ Hz \end{array}$	$M_L=1.0 M_w=1.3$ $f_c=37.8 Hz$
10) ¹⁰ -	2018172070230	2018172090030	2018172175518	2018172180735	2018172183326	2018172230708	2018172234909	2018173042858
10) ¹² -	$M_{L}=0.9 M_{W}=1.1$	$M_{L}=0.7 M_{W}=0.9$	$M_{L}=0.9 M_{W}=1.1$	$M_{L}=0.5 M_{W}=0.7$	$M_{L}=1.0 M_{W}=1.2$	$M_{L}=1.1 M_{W}=1.4$	$M_{L}=0.0 M_{W}=0.7$	$M_{L}=0.6 M_{W}=0.8$
		f _c =53.7 Hz	f _c =53.4 Hz		f _c =62.5 Hz	f _c =50.0 Hz	f _c =43.4 Hz	f _c =60.0 Hz	f _c =60.0 Hz
10)10 -	2018173043508	2018173072237	2018173130130	2018173142304	2018173151655	2018173181236	2018173191258	2018173214953
10) ¹² -	$M_L = 0.8 M_w = 1.1$ $f_c = 49.1 \text{ Hz}$	- $M_L=0.7 M_w=0.9$ $f_c=63.4 Hz$		$-\frac{M_{L}=1.0 M_{w}=1.3}{f_{c}=54.0 \text{ Hz}}$	$-\frac{M_{L}=0.7 \ M_{w}=0.9}{f_{c}=75.8 \ Hz}$	- $M_L=1.1 \ M_W=1.4$	$M_L=0.6 M_w=0.7$ $f_c=73.3 Hz$	$-\frac{M_{L}=0.5 \ M_{w}=0.7}{f_{c}=71.7 \ Hz}$
10) ¹⁰ -				- 57,0112		33.4112		
		2018173220003	2018174040400	2018174043300	2018174062000	2018174064100	2018174085934	2018174131934	2018174154112
10)12 -	$M_L=1.1 M_w=1.2$ $f_c=44.7 Hz$	1	$M_L=0.4 M_W=0.7$ $f_c=68.4 Hz$	$M_L=0.8 M_w=1.1$ $f_c=44.8 Hz$	$M_L=0.5 M_W=0.6$ $f_c=65.4 Hz$	$-\frac{M_{L}=0.8\ M_{W}=1.0}{f_{c}=64.5\ Hz}$	$-\frac{M_{L}=0.5 \ M_{w}=0.8}{f_{c}=77.0 \ Hz}$	$M_L = 0.7 M_w = 0.8$ $f_c = 55.9 \text{ Hz}$
(E _N)) ¹⁰ -								
ctrum <i>ω</i> M (Nm) 10	L	2018175062422	2018175071713	2018175132759	2018176001813	2018176155852	2018176170554	2018176210520	2018177104730
spectru 01)12 -	M_L =0.5 M_w =0.7 f_c =77.5 Hz	$M_L=0.9 M_W=1.3$ $f_c=55.8 Hz$		$M_L = 1.2 M_W = 1.5$ $f_c = 51.2 \text{ Hz}$	$M_L=0.9 M_w=1.1$ $f_c=51.7 Hz$	$f_c = 5.2 \text{ Hz}$	M _L =1.5 M _w =1.7	$-\frac{M_{L}=0.6\ M_{w}=0.9}{f_{c}=44.4\ Hz}$
ement 10) ¹⁰ -		-		-				-
source displacement) ¹² -	2018178152609 	2018178222942 	2018179053245 M _L =0.8 M _w =1.0	2018179233042 	2018180013150 	2018180040100 	2018180094138 	2018181040940
		77 - 1.47 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	f _c =49.5 Hz		f _c =52.7 Hz	$f_c = 44.9 \text{ Hz}$	f _c =50.9 Hz	f _c =61.5 Hz	f _c =52.3 Hz
10)10 -	2018181065239	2018181192300	2018182124340	2018182203248	2018182212250	2018182233301	2018183155952	2018183202531
10) ¹² -	M _L =1.0 M _w =1.2	$M_{L}=0.6 M_{W}=0.8$		- M _L =1.2 M _w =1.4	$M_{L}=0.9 M_{W}=1.2$	$M_{L}=1.1 M_{W}=1.2$	$M_{L}=1.1 M_{W}=1.1$	$M_{L}=0.7 M_{W}=1.0$
10	10	f _c =42.7 Hz	f _c =56.1 Hz	f _c =51.6 Hz	f _c =41.5 Hz	f _c =51.7 Hz	f _c =49.0 Hz	f _c =54.9 Hz	f _c =56.4 Hz
10	, [2018183215029	2018184003003	2018184201046	2018184202906	2018185001326	2018185014623	2018185034551	2018185120950
10)12 -	$M_{L}=0.7 M_{W}=1.0$ $f_{c}=56.6 Hz$	$M_{L}=0.7 M_{W}=0.8$ $f_{c}=58.8 \text{ Hz}$			$M_L=0.8 M_w=1.0$ $f_c=59.2 Hz$	$M_{L}=0.9 M_{w}=1.1$ $f_{c}=53.1 Hz$	$-\frac{M_{L}=0.5 \ M_{w}=0.7}{f_{c}=62.7 \ Hz}$	$-\frac{M_{L}=0.7\ M_{w}=0.8}{f_{c}=57.8\ Hz}$
10) ¹⁰ -			-	_				
		2018185145450	2018185155423	2018186070100	2018186092109	2018186115357	2018186131522	2018186202646	2018186215007
10)12 -	M_{L} =0.6 M_{w} =0.8 f_{c} =58.5 Hz	$M_L = 0.6 M_w = 0.7$ $f_c = 67.4 \text{ Hz}$		$M_L=0.8 M_w=1.1$ $f_c=45.0 \text{ Hz}$	$M_L = 0.6 M_W = 0.8$ $f_c = 43.6 \text{ Hz}$	- M _L =1.4 M _w =1.6	$M_L=1.0 M_W=1.2$ $f_c=52.5 Hz$	$M_L=0.7 M_w=0.9$ $f_c=64.5 Hz$
10) ¹⁰ -		-	1	-				-
_)12 [[]	2018187034808 	2018187062657	2018187084836	2018188142051 	2018188161324 	2018188173124 	2018188175428 	2018188193122
10		M_{L} =0.7 M_{W} =0.9 f_{c} =56.9 Hz	$M_L = 0.8 M_w = 1.1$ $f_c = 47.4 \text{ Hz}$		$f_{c}=72.6 \text{ Hz}$	M_{L} =0.7 M_{w} =0.8 f_{c} =67.8 Hz	M_{L} =0.6 M_{w} =0.8 f_{c} =61.4 Hz	$M_L = 0.4 M_w = 0.7$ $f_c = 67.6 \text{ Hz}$	$M_L=0.5 M_W=1.0$ $f_c=51.5 Hz$
10) ¹⁰ -	2018188202905	2018188214438	2018188214700	2018188214802	2018189060720	2018189070845	2018189095118	2018189132738
10] - 12	$M_{\rm L} = 0.8 \ M_{\rm W} = 1.0$	$M_{L}=0.8 M_{w}=1.0$	$M_{L}=0.6 M_{W}=0.9$	$M_{L}=0.8 M_{W}=1.1$	$M_{L}=0.6 M_{W}=0.9$	- M ₁ = 2.0	$M_{L}=0.5 M_{W}=0.6$	$M_{L}=0.6 M_{W}=0.8$
10) ¹⁰ -	f _c =50.6 Hz	f _c =54.3 Hz	f _c =51.2 Hz	f _c =49.2 Hz	f _c =64.0 Hz	t _c =37.3 Hz	f _c =66.4 Hz	f _c =61.4 Hz
10		2018189132728	2018189142028	2018189152317	2018189160854	2018189163251	2018189173537	2018189195043	2018190005253
10) ¹² -	$M_{L}=1.1 M_{W}=1.3$ $f_{c}=57.4 Hz$	$- M_{L}=0.3 M_{W}=0.6$ $f_{c}=63.5 Hz$		- M _L =1.3 M _w =1.7	$M_L=0.5 M_w=0.6$ $f_c=73.6 Hz$	M_L =0.6 M_w =0.8 f_c =59.4 Hz	$M_L=1.3 M_w=1.6$ = 36 Q.Hz	$-\frac{M_{L}=0.8\ M_{w}=1.0}{f_{c}=59.3\ Hz}$
10) ¹⁰ -	Section 200			-		-		
		2018190020811	2018190025747	2018190155046	2018193142500	2018193204529	2018194085018	2018194133411	2018195011432
10)12 -	M_{L} =0.6 M_{W} =0.7 f_{c} =69.1 Hz	M_L =0.9 M_W =1.2 f_c =44.0 Hz		$f_{c}=0.6 M_{w}=0.8$ $f_{c}=54.9 \text{ Hz}$	$M_L=0.8 M_w=1.0$ $f_c=54.0 \text{ Hz}$	M_L =0.8 M_w =1.0 f_c =49.0 Hz		$M_{L}=0.7 M_{W}=1.0$ $f_{c}=63.1 Hz$
10)10 -		-	-	2010105555	20191050055	2010100000	2018196071020	2019106122615
10		1 201010		1 1 20404	2018195195343	2018196003937	2018196010738	2018196071020	2018196133941
10) ¹² -	2018195074501 	2018195123640 	2018195172331 M _L =0.6 M _w =0.6	M ₁ = 0.6 M - 0.0	_ 	$M_1 = 0 \ Q \ M - 1 \ Q$	$M_1 = 0.6 M_1 = 0.0$	$M_{\rm L}=1.3~M_{\rm W}=1.6$
1		M_{L} =0.7 M_{W} =0.8 f_{c} =75.2 Hz		$M_{L}=0.6 M_{W}=0.6$	$M_{L}=0.6 M_{W}=0.8$ $f_{c}=61.0 \text{ Hz}$	$f_{c} = 500 \text{ Hz}$	$M_L = 0.9 M_W = 1.2$ $f_c = 57.3 \text{ Hz}$	M_{L} =0.6 M_{w} =0.8 f_{c} =69.0 Hz	14[-1.5 Fig1.5 Fig1.
10		$M_{\rm L} = 0.7 \ M_{\rm w} = 0.8$	$M_{L}=0.7 M_{W}=1.0$	$M_{L}=0.6 M_{W}=0.6$		$f_c = 500 \text{ Hz}$ $f_c = 500 \text{ Hz}$ 2018197172535			2018199104200
		M_{L} =0.7 M_{w} =0.8 f_{c} =75.2 Hz	$M_{L}=0.7 M_{w}=1.0$ $f_{c}=61.6 \text{ Hz}$ 2018197015541 $M_{L}=0.7 M_{w}=0.9$	M _L =0.6 M _w =0.6 f _c =74.5 Hz	f _c =61.0 Hz 2018197091659	f _c =500 Hz	f _c =57.3 Hz	f _c =69.0 Hz 2018199080816 M _L =0.5 M _w =0.7	2018199104200
) ¹⁰ -	M_{L} =0.7 M_{w} =0.8 f_{c} =75.2 Hz	$M_{L}=0.7 M_{W}=1.0$ $f_{c}=61.6 \text{ Hz}$ 2018197015541	M _L =0.6 M _w =0.6 f _c =74.5 Hz	f _c =61.0 Hz	f _c =500 Hz 2018197172535	f _c =57.3 Hz 2018197183626	f _c =69.0 Hz	2018199104200
10) ¹⁰ -	M_{L} =0.7 M_{w} =0.8 f_{c} =75.2 Hz	$M_{L}=0.7 M_{w}=1.0$ $f_{c}=61.6 \text{ Hz}$ 2018197015541 $M_{L}=0.7 M_{w}=0.9$	M _L =0.6 M _w =0.6 f _c =74.5 Hz	f _c =61.0 Hz 2018197091659	f _c =500 Hz 2018197172535	f _c =57.3 Hz 2018197183626	f _c =69.0 Hz 2018199080816 M _L =0.5 M _w =0.7	2018199104200
10 10) ¹⁰ -	M_{L} =0.7 M_{w} =0.8 f_{c} =75.2 Hz	$M_{L}=0.7 M_{w}=1.0$ $f_{c}=61.6 \text{ Hz}$ 2018197015541 $M_{L}=0.7 M_{w}=0.9$ $f_{c}=74.8 \text{ Hz}$	$M_{L}=0.6 M_{w}=0.6$ $f_{c}=74.5 Hz$ 2018197070436 $M_{L}=0.5 M_{w}=0.7$ $f_{c}=71.0 Hz$	f _c =61.0 Hz 2018197091659 M _L =0.5 M _w =0.7 f _c =70.1 Hz	f_c =3.00 Hz $\begin{array}{c} 2018197172535 \\ \hline M_L = 1.2 \ M_w = 1.6 \\ f_c = 36.4 \ Hz \end{array}$	f _c =57.3 Hz 2018197183626	f _c =69.0 Hz 2018199080816 M _L =0.5 M _w =0.7 f _c =82.2 Hz	2018199104200
10 10) ¹⁰ -	M_{L} =0.7 M_{w} =0.8 f_{c} =75.2 Hz 2018196200450	$M_{L}=0.7 M_{w}=1.0$ $f_{c}=61.6 \text{ Hz}$ 2018197015541 $M_{L}=0.7 M_{w}=0.9$ $f_{c}=74.8 \text{ Hz}$	$M_{L}=0.6 M_{W}=0.6$ $f_{c}=74.5 Hz$ 2018197070436 $M_{L}=0.5 M_{W}=0.7$ $f_{c}=71.0 Hz$ 2018199194117 $M_{L}=0.9 M_{W}=1.1$	f _c =61.0 Hz 2018197091659 M _L =0.5 M _w =0.7 f _c =70.1 Hz 2018199204703 M _L =1.2 M _w =1.5	f_c =500 Hz 2018197172535 $-M_L=1.2 M_w=1.6$ $f_c=36.4 Hz$ 2018199224500 $-M_L=1.5 M_w=1.7$	f _c =57.3 Hz 2018197183626	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz 2018200040208 M_L =0.7 M_w =1.1	2018199104200
10 10 10) ¹⁰ -	M_{L} =0.7 M_{w} =0.8 f_{c} =75.2 Hz 2018196200450	$M_{L}=0.7 M_{w}=1.0$ $f_{c}=61.6 \text{ Hz}$ 2018197015541 $M_{L}=0.7 M_{w}=0.9$ $f_{c}=74.8 \text{ Hz}$	$M_{L}=0.6 M_{W}=0.6$ $f_{c}=74.5 Hz$ 2018197070436 $M_{L}=0.5 M_{W}=0.7$ $f_{c}=71.0 Hz$ 2018199194117 $M_{L}=0.9 M_{W}=1.1$	f _c =61.0 Hz 2018197091659 M _L =0.5 M _w =0.7 f _c =70.1 Hz 2018199204703 M _L =1.2 M _w =1.5	f_c =500 Hz 2018197172535 $-M_L=1.2 M_w=1.6$ $f_c=36.4 Hz$ 2018199224500 $-M_L=1.5 M_w=1.7$	f _c =57.3 Hz 2018197183626	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz 2018200040208 M_L =0.7 M_w =1.1	2018199104200
10 10 10) ¹⁰ -	M_{L} =0.7 M_{w} =0.8 f_{c} =75.2 Hz 2018196200450	$M_L=0.7 M_w=1.0$ $f_c=61.6 \text{ Hz}$ $M_L=0.7 M_w=0.9$ $f_c=74.8 \text{ Hz}$ $M_L=0.7 M_w=0.9$	$M_{L}=0.6 M_{w}=0.6 f_{c}=74.5 \text{ Hz}$ 2018197070436 $M_{L}=0.5 M_{w}=0.7 f_{c}=71.0 \text{ Hz}$ 2018199194117 $M_{L}=0.9 M_{w}=1.1 f_{c}=53.9 \text{ Hz}$ 2018200102006	f_c =61.0 Hz 2018197091659 M_L =0.5 M_w =0.7 f_c =70.1 Hz 2018199204703 M_L =1.2 M_w =1.5 f_c =48.5 Hz	f_c =5.00 Hz 2018197172535 M_L =1.2 M_w =1.6 f_c =36.4 Hz 2018199224500 M_L =1.5 M_w =1.7 37.0 Hz	## Description of the content of the	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz M_L =0.7 M_w =1.1 f_c =48.6 Hz	2018199104200
10 10 10) ¹⁰	M_{L} =0.7 M_{w} =0.8 f_{c} =75.2 Hz M_{L} =0.9 M_{w} =1.2 f_{c} =48.2 Hz M_{L} =1.1 M_{w} =1.2 f_{c} =47.5 Hz M_{L} =0.4 M_{w} =0.7 M_{C} =56.6 Hz	$M_{L}=0.7 \ M_{w}=1.0$ $f_{c}=61.6 \ Hz$ 2018197015541 $M_{L}=0.7 \ M_{w}=0.9$ $f_{c}=74.8 \ Hz$ 2018199170914 2018200100919 $M_{L}=0.8 \ M_{w}=1.0$ $f_{c}=65.2 \ Hz$	$M_{L}=0.6 M_{w}=0.6 f_{c}=74.5 Hz$ 2018197070436 $M_{L}=0.5 M_{w}=0.7 f_{c}=71.0 Hz$ 2018199194117 $M_{L}=0.9 M_{w}=1.1 f_{c}=53.9 Hz$ 2018200102006	f_c =61.0 Hz 2018197091659 M_L =0.5 M_w =0.7 f_c =70.1 Hz 2018199204703 M_L =1.2 M_w =1.5 f_c =48.5 Hz 2018200105407 M_L =0.6 M_w =0.7 f_c =54.0 Hz	f_c =5.00 Hz 2018197172535 M_L =1.2 M_w =1.6 f_s =36.4 Hz 2018199224500 M_L =1.5 M_w =1.7 37.0 Hz M_L =0.7 M_w =0.9 M_c =55.5 Hz	f_c =57.3 Hz 2018197183626 M_L =0.5 M_w =0.8 f_c =70.8 Hz 2018200015608 M_L =0.6 M_w =0.7 f_c =75.9 Hz M_L =1.2 M_w =1.3 f_c =63.3 Hz	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz 2018200040208 M_L =0.7 M_w =1.1 f_c =48.6 Hz 2018200134612 M_L =0.5 M_w =0.7 f_c =66.1 Hz	2018199104200
10 10 10 10) ¹⁰	$M_{L}=0.7 M_{w}=0.8 f_{c}=75.2 Hz$ 2018196200450 $M_{L}=0.9 M_{w}=1.2 f_{c}=48.2 Hz$ 2018199170820 $M_{L}=1.1 M_{w}=1.2 f_{c}=47.5 Hz$ 2018200100833 $M_{L}=0.4 M_{w}=0.7 f_{c}=56.6 Hz$ 2018200170651	$M_{L}=0.7~M_{w}=1.0$ $f_{c}=61.6~Hz$ $M_{L}=0.7~M_{w}=0.9$ $f_{c}=74.8~Hz$ $M_{L}=0.8~M_{w}=1.0$ $M_{L}=0.8~M_{w}=1.0$ $M_{L}=0.8~M_{w}=1.0$ $M_{L}=0.8~M_{w}=1.0$	M _L =0.6 M _w =0.6 f _c =74.5 Hz 2018197070436 M _L =0.5 M _w =0.7 f _c =71.0 Hz 2018199194117 M _L =0.9 M _w =1.1 f _c =53.9 Hz 2018200102006	f_c =61.0 Hz 2018197091659 M_L =0.5 M_w =0.7 f_c =70.1 Hz 2018199204703 M_L =1.2 M_w =1.5 f_c =48.5 Hz 2018200105407 M_L =0.6 M_w =0.7 f_c =54.0 Hz	f_c =5.00 Hz 2018197172535 M_L =1.2 M_w =1.6 f_c =36.4 Hz 2018199224500 M_L =1.5 M_w =1.7 37.0 Hz M_L =0.7 M_w =0.9 f_c =55.5 Hz	f_c =57.3 Hz 2018197183626 M_L =0.5 M_w =0.8 f_c =70.8 Hz 2018200015608 M_L =0.6 M_w =0.7 f_c =75.9 Hz 2018200105703 M_L =1.2 M_w =1.3 f_c =63.3 Hz	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz 2018200040208 M_L =0.7 M_w =1.1 f_c =48.6 Hz 2018200134612 M_L =0.5 M_w =0.7 f_c =66.1 Hz	2018199104200
100 100 100 100 100) ¹⁰ -	M_{L} =0.7 M_{w} =0.8 f_{c} =75.2 Hz M_{L} =0.9 M_{w} =1.2 f_{c} =48.2 Hz M_{L} =1.1 M_{w} =1.2 f_{c} =47.5 Hz M_{L} =0.4 M_{w} =0.7 M_{C} =56.6 Hz	$M_{L}=0.7 \ M_{w}=1.0$ $f_{c}=61.6 \ Hz$ 2018197015541 $M_{L}=0.7 \ M_{w}=0.9$ $f_{c}=74.8 \ Hz$ 2018199170914 2018200100919 $M_{L}=0.8 \ M_{w}=1.0$ $f_{c}=65.2 \ Hz$	$M_{L}=0.6 M_{W}=0.6 f_{c}=74.5 \text{ Hz}$ 2018197070436 $M_{L}=0.5 M_{W}=0.7 f_{c}=71.0 \text{ Hz}$ 2018199194117 $M_{L}=0.9 M_{W}=1.1 f_{c}=53.9 \text{ Hz}$ 2018200102006 2018200102006	f_c =61.0 Hz 2018197091659 M_L =0.5 M_w =0.7 f_c =70.1 Hz 2018199204703 M_L =1.2 M_w =1.5 f_c =48.5 Hz 2018200105407 M_L =0.6 M_w =0.7 f_c =54.0 Hz	f_c =5.00 Hz 2018197172535 M_L =1.2 M_w =1.6 f_s =36.4 Hz 2018199224500 M_L =1.5 M_w =1.7 37.0 Hz M_L =0.7 M_w =0.9 M_c =55.5 Hz	f_c =57.3 Hz 2018197183626 M_L =0.5 M_w =0.8 f_c =70.8 Hz 2018200015608 M_L =0.6 M_w =0.7 f_c =75.9 Hz M_L =1.2 M_w =1.3 f_c =63.3 Hz	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz 2018200040208 M_L =0.7 M_w =1.1 f_c =48.6 Hz 2018200134612 M_L =0.5 M_w =0.7 f_c =66.1 Hz	2018199104200
10 10 10 10) ¹⁰ -	$M_{L}=0.7~M_{w}=0.8$ $f_{c}=75.2~Hz$ $M_{L}=0.9~M_{w}=1.2$ $f_{c}=48.2~Hz$ $M_{L}=1.1~M_{w}=1.2$ $f_{c}=47.5~Hz$ $M_{L}=0.4~M_{w}=0.7$ $f_{c}=56.6~Hz$ $M_{L}=0.5~M_{w}=0.6$	$M_{L}=0.7~M_{w}=1.0$ $f_{c}=61.6~Hz$ $M_{L}=0.7~M_{w}=0.9$ $f_{c}=74.8~Hz$ $M_{L}=0.8~M_{w}=1.0$ $f_{c}=65.2~Hz$ $M_{L}=0.5~M_{w}=0.7$	M _L =0.6 M _w =0.6 f _c =74.5 Hz 2018197070436 M _L =0.5 M _w =0.7 f _c =71.0 Hz 2018199194117 M _L =0.9 M _w =1.1 f _c =53.9 Hz 2018200102006	f_c =61.0 Hz 2018197091659 M_L =0.5 M_w =0.7 f_c =70.1 Hz 2018199204703 M_L =1.2 M_w =1.5 f_c =48.5 Hz 2018200105407 M_L =0.6 M_w =0.7 f_c =54.0 Hz M_L =0.6 M_w =0.7	f_c =5.00 Hz 2018197172535 M_L =1.2 M_w =1.6 f_c =36.4 Hz 2018199224500 M_L =1.5 M_w =1.7 37.0 Hz M_L =0.7 M_w =0.9 f_c =55.5 Hz M_L =0.7 M_w =0.9	f_c =57.3 Hz 2018197183626 M_L =0.5 M_w =0.8 f_c =70.8 Hz 2018200015608 M_L =0.6 M_w =0.7 f_c =75.9 Hz 2018200105703 M_L =1.2 M_w =1.3 f_c =63.3 Hz 2018202134535	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz 2018200040208 M_L =0.7 M_w =1.1 f_c =48.6 Hz 2018200134612 M_L =0.5 M_w =0.7 f_c =66.1 Hz M_L =0.7 M_w =0.8	2018199104200 $-M_{L}=1.0 M_{w}=1.3$ $f_{c}=50.5 Hz$ $-M_{L}=0.6 M_{w}=0.8$ $f_{c}=70.4 Hz$ $-M_{L}=0.5 M_{w}=0.7$ $f_{c}=68.7 Hz$ $-M_{L}=1.0 M_{w}=1.2$
10 10 10 10 10) ¹⁰ -	$M_{L}=0.7 \ M_{w}=0.8 \ f_{c}=75.2 \ Hz$ 2018196200450 $M_{L}=0.9 \ M_{w}=1.2 \ f_{c}=48.2 \ Hz$ $M_{L}=1.1 \ M_{w}=1.2 \ f_{c}=47.5 \ Hz$ $M_{L}=0.4 \ M_{w}=0.7 \ f_{c}=56.6 \ Hz$ $M_{L}=0.5 \ M_{w}=0.6 \ f_{c}=78.4 \ Hz$ $M_{L}=0.5 \ M_{w}=0.7 \ M_{L}=0.5 \ M_{w}=0.7$	$M_{L}=0.7 \ M_{w}=1.0 \ f_{c}=61.6 \ Hz$ 2018197015541 $M_{L}=0.7 \ M_{w}=0.9 \ f_{c}=74.8 \ Hz$ 2018199170914 $M_{L}=0.8 \ M_{w}=1.0 \ f_{c}=65.2 \ Hz$ 2018200191849 $M_{L}=0.5 \ M_{w}=0.7 \ f_{c}=79.4 \ Hz$ 2018202234429 $M_{L}=1.1 \ M_{w}=1.2$	$M_{L}=0.6 \ M_{W}=0.6 \ f_{c}=74.5 \ Hz$ 2018197070436 $M_{L}=0.5 \ M_{W}=0.7 \ f_{c}=71.0 \ Hz$ 2018199194117 $M_{L}=0.9 \ M_{W}=1.1 \ f_{c}=53.9 \ Hz$ 2018200102006 2018201073346 $M_{L}=0.7 \ M_{W}=0.9$	f_c =61.0 Hz f_c =61.0 Hz 2018197091659 M_L =0.5 M_w =0.7 f_c =70.1 Hz 2018199204703 M_L =1.2 M_w =1.5 f_c =48.5 Hz 2018200105407 M_L =0.6 M_w =0.7 f_c =54.0 Hz M_L =0.6 M_w =0.7 f_c =70.2 Hz M_L =0.5 M_w =0.7	f_c =5.0 Hz f_c =5.0 Hz 2018197172535 M_L =1.2 M_w =1.6 f_c =36.4 Hz 2018199224500 M_L =1.5 M_w =1.7 37.0 Hz M_L =0.7 M_w =0.9 f_c =55.5 Hz M_L =0.7 M_w =0.9 f_c =63.9 Hz 2018203090059 M_L =1.4 M_w =1.5	f_c =57.3 Hz f_c =57.3 Hz 2018197183626 M_L =0.5 M_w =0.8 f_c =70.8 Hz 2018200015608 M_L =0.6 M_w =0.7 f_c =75.9 Hz 2018200105703 M_L =1.2 M_w =1.3 f_c =63.3 Hz M_L =0.5 M_w =0.7 f_c =68.4 Hz 2018203113243 M_L =0.9 M_w =1.3	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz 2018200040208 M_L =0.7 M_w =1.1 f_c =48.6 Hz 2018200134612 M_L =0.5 M_w =0.7 f_c =66.1 Hz M_L =0.7 M_w =0.8 f_c =75.2 Hz M_L =0.5 M_w =0.7	2018199104200 $M_{L}=1.0 M_{w}=1.3 f_{c}=50.5 Hz$ $M_{L}=0.6 M_{w}=0.8 f_{c}=70.4 Hz$ 2018200143037 $M_{L}=0.5 M_{w}=0.7 f_{c}=68.7 Hz$ $M_{L}=1.0 M_{w}=1.2 f_{c}=61.0 Hz$ 2018203171420 10 100
100 100 100 100 100 100 100 100 100 100)10 - [)12 - [)10 - [)10 - [)10 - [)10 - [)10 - [)10 - [)10 - []	$M_{L}=0.7 \ M_{W}=0.8 \ f_{c}=75.2 \ Hz$ 2018196200450 $M_{L}=0.9 \ M_{W}=1.2 \ f_{c}=48.2 \ Hz$ $M_{L}=1.1 \ M_{W}=1.2 \ f_{c}=47.5 \ Hz$ $M_{L}=0.4 \ M_{W}=0.7 \ f_{c}=56.6 \ Hz$ $M_{L}=0.5 \ M_{W}=0.6 \ f_{c}=78.4 \ Hz$ $M_{L}=0.18202225701$	$M_{L}=0.7 \ M_{w}=1.0 \ f_{c}=61.6 \ Hz$ 2018197015541 $M_{L}=0.7 \ M_{w}=0.9 \ f_{c}=74.8 \ Hz$ 2018199170914 $M_{L}=0.8 \ M_{w}=1.0 \ f_{c}=65.2 \ Hz$ 2018200191849 $M_{L}=0.5 \ M_{w}=0.7 \ f_{c}=79.4 \ Hz$ 2018202234429	$M_{L}=0.6 \ M_{W}=0.6 \ f_{c}=74.5 \ Hz$ 2018197070436 $M_{L}=0.5 \ M_{W}=0.7 \ f_{c}=71.0 \ Hz$ 2018199194117 $M_{L}=0.9 \ M_{W}=1.1 \ f_{c}=53.9 \ Hz$ 2018200102006 2018201073346 $M_{L}=0.7 \ M_{W}=0.9$	f_c =61.0 Hz f_c =61.0 Hz 2018197091659 M_L =0.5 M_w =0.7 f_c =70.1 Hz 2018199204703 M_L =1.2 M_w =1.5 f_c =48.5 Hz M_L =0.6 M_w =0.7 f_c =54.0 Hz M_L =0.6 M_w =0.7 f_c =70.2 Hz 2018203081713	f_c =5.0 Hz 2018197172535 M_L =1.2 M_w =1.6 f_c =36.4 Hz 2018199224500 M_L =1.5 M_w =1.7 2018200105452 M_L =0.7 M_w =0.9 f_c =55.5 Hz M_L =0.7 M_w =0.9 f_c =63.9 Hz	f_c =57.3 Hz f_c =57.3 Hz 2018197183626 M_L =0.5 M_w =0.8 f_c =70.8 Hz 2018200015608 M_L =0.6 M_w =0.7 f_c =75.9 Hz M_L =1.2 M_w =1.3 f_c =63.3 Hz M_L =0.5 M_w =0.7 M_c =68.4 Hz	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz 2018200040208 M_L =0.7 M_w =1.1 f_c =48.6 Hz 2018200134612 M_L =0.5 M_w =0.7 f_c =66.1 Hz M_L =0.7 M_w =0.8 f_c =75.2 Hz	2018199104200 $M_{L}=1.0 M_{w}=1.3 f_{c}=50.5 Hz$ $M_{L}=0.6 M_{w}=0.8 f_{c}=70.4 Hz$ 2018200143037 $M_{L}=0.5 M_{w}=0.7 f_{c}=68.7 Hz$ $M_{L}=1.0 M_{w}=1.2 f_{c}=61.0 Hz$ 2018203171420 10 100
10 10 10 10 10)10 - [)12 - [)10 - [)10 - [)10 - [)10 - [)10 - [)10 - [)10 - []	$M_{L}=0.7 \ M_{w}=0.8 \ f_{c}=75.2 \ Hz$ 2018196200450 $M_{L}=0.9 \ M_{w}=1.2 \ f_{c}=48.2 \ Hz$ $M_{L}=1.1 \ M_{w}=1.2 \ f_{c}=47.5 \ Hz$ $M_{L}=0.4 \ M_{w}=0.7 \ f_{c}=56.6 \ Hz$ $M_{L}=0.5 \ M_{w}=0.6 \ f_{c}=78.4 \ Hz$ $M_{L}=0.5 \ M_{w}=0.7 \ M_{L}=0.5 \ M_{w}=0.7$	$M_{L}=0.7 \ M_{w}=1.0 \ f_{c}=61.6 \ Hz$ 2018197015541 $M_{L}=0.7 \ M_{w}=0.9 \ f_{c}=74.8 \ Hz$ 2018199170914 $M_{L}=0.8 \ M_{w}=1.0 \ f_{c}=65.2 \ Hz$ 2018200191849 $M_{L}=0.5 \ M_{w}=0.7 \ f_{c}=79.4 \ Hz$ 2018202234429 $M_{L}=1.1 \ M_{w}=1.2$	$M_{L}=0.6 \ M_{W}=0.6 \ f_{c}=74.5 \ Hz$ 2018197070436 $M_{L}=0.5 \ M_{W}=0.7 \ f_{c}=71.0 \ Hz$ 2018199194117 $M_{L}=0.9 \ M_{W}=1.1 \ f_{c}=53.9 \ Hz$ 2018200102006 2018201073346 $M_{L}=0.7 \ M_{W}=0.9$	f_c =61.0 Hz f_c =61.0 Hz 2018197091659 M_L =0.5 M_w =0.7 f_c =70.1 Hz 2018199204703 M_L =1.2 M_w =1.5 f_c =48.5 Hz 2018200105407 M_L =0.6 M_w =0.7 f_c =54.0 Hz M_L =0.6 M_w =0.7 f_c =70.2 Hz M_L =0.5 M_w =0.7	f_c =5.0 Hz f_c =5.0 Hz 2018197172535 M_L =1.2 M_w =1.6 f_c =36.4 Hz 2018199224500 M_L =1.5 M_w =1.7 37.0 Hz M_L =0.7 M_w =0.9 f_c =55.5 Hz M_L =0.7 M_w =0.9 f_c =63.9 Hz 2018203090059 M_L =1.4 M_w =1.5	f_c =57.3 Hz f_c =57.3 Hz 2018197183626 M_L =0.5 M_w =0.8 f_c =70.8 Hz 2018200015608 M_L =0.6 M_w =0.7 f_c =75.9 Hz 2018200105703 M_L =1.2 M_w =1.3 f_c =63.3 Hz M_L =0.5 M_w =0.7 f_c =68.4 Hz 2018203113243 M_L =0.9 M_w =1.3	f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz 2018200040208 M_L =0.7 M_w =1.1 f_c =48.6 Hz 2018200134612 M_L =0.5 M_w =0.7 f_c =66.1 Hz M_L =0.7 M_w =0.8 f_c =75.2 Hz M_L =0.5 M_w =0.7	2018199104200 $M_L=1.0 M_w=1.3 f_c=50.5 Hz$ $M_L=0.6 M_w=0.8 f_c=70.4 Hz$ $M_L=0.5 M_w=0.7 f_c=68.7 Hz$ $M_L=0.0 M_w=0.7 f_c=68.7 Hz$ $M_L=0.0 M_w=0.7 f_c=68.7 Hz$
100 100 100 100 100)10 - [)12 - [)10 - [)10 - [)10 - [)10 - [)10 - [)10 - [)10 - []	$M_{L}=0.7 M_{w}=0.8 \\ f_{c}=75.2 Hz$ 2018196200450 $M_{L}=0.9 M_{w}=1.2 \\ f_{c}=48.2 Hz$ 2018199170820 $M_{L}=1.1 M_{w}=1.2 \\ f_{c}=47.5 Hz$ 2018200100833 $M_{L}=0.4 M_{w}=0.7 \\ f_{c}=56.6 Hz$ 2018200170651 $M_{L}=0.5 M_{w}=0.6 \\ f_{c}=78.4 Hz$ 2018202225701 $M_{L}=0.5 M_{w}=0.7 \\ f_{c}=68.7 Hz$	$M_{L}=0.7 \ M_{w}=1.0 \\ f_{c}=61.6 \ Hz$ 2018197015541 $M_{L}=0.7 \ M_{w}=0.9 \\ f_{c}=74.8 \ Hz$ 2018199170914 $M_{L}=0.8 \ M_{w}=1.0 \\ f_{c}=65.2 \ Hz$ 2018200191849 $M_{L}=0.5 \ M_{w}=0.7 \\ f_{c}=79.4 \ Hz$ 2018202234429 $M_{L}=1.1 \ M_{w}=1.2 \\ f_{c}=56.9 \ Hz$	$M_{L}=0.6 M_{W}=0.6 \\ f_{c}=74.5 Hz$ 2018197070436 $M_{L}=0.5 M_{W}=0.7 \\ f_{c}=71.0 Hz$ 2018199194117 $M_{L}=0.9 M_{W}=1.1 \\ f_{c}=53.9 Hz$ 2018200102006 $M_{L}=0.7 M_{W}=0.9 \\ f_{c}=63.7 Hz$ 2018203232316	$f_{c}=61.0 \text{ Hz}$ 2018197091659 $M_{L}=0.5 M_{w}=0.7$ $f_{c}=70.1 \text{ Hz}$ 2018199204703 $M_{L}=1.2 M_{w}=1.5$ $f_{c}=48.5 \text{ Hz}$ 2018200105407 $M_{L}=0.6 M_{w}=0.7$ $f_{c}=54.0 \text{ Hz}$ 2018201152715 $M_{L}=0.6 M_{w}=0.7$ $f_{c}=70.2 \text{ Hz}$ 2018203081713 $M_{L}=0.5 M_{w}=0.7$ $f_{c}=67.1 \text{ Hz}$	$f_{c}=5 \text{ CO Hz}$ 2018197172535 $M_{L}=1.2 M_{w}=1.6$ $f_{c}=36.4 \text{Hz}$ 2018199224500 $M_{L}=1.5 M_{w}=1.7$ 37.0Hz 2018200105452 $M_{L}=0.7 M_{w}=0.9$ $f_{c}=55.5 \text{Hz}$ $M_{L}=0.7 M_{w}=0.9$ $f_{c}=63.9 \text{Hz}$ 2018203090059 $M_{L}=1.4 M_{w}=1.5$ $f_{c}=49.7 \text{Hz}$	f_c =57.3 Hz f_c =57.3 Hz 2018197183626 M_L =0.5 M_w =0.8 f_c =70.8 Hz 2018200015608 M_L =0.6 M_w =0.7 f_c =75.9 Hz 2018200105703 M_L =1.2 M_w =1.3 f_c =63.3 Hz 2018202134535 M_L =0.5 M_w =0.7 f_c =68.4 Hz 2018203113243 M_L =0.9 M_w =1.3 M_L =0.9 M_w =1.3 M_L =0.7 Hz	f_c =69.0 Hz f_c =69.0 Hz 2018199080816 M_L =0.5 M_w =0.7 f_c =82.2 Hz M_L =0.7 M_w =1.1 f_c =48.6 Hz 2018200134612 M_L =0.5 M_w =0.7 f_c =66.1 Hz M_L =0.7 M_w =0.8 M_c =75.2 Hz	2018199104200