	$M_L = 0.5 M_w = 0.5$ $f_c = 46.6 \text{ Hz}$		$M_{L}=0.3 M_{W}=0.4$ $f_{c}=44.5 Hz$	M_{L} =0.6 M_{w} =0.8 f_{c} =29.7 Hz	$M_L = 0.7 M_w = 0.6$ $f_c = 42.3 \text{ Hz}$	$M_L = 0.6 M_w = 0.5$ $f_c = 41.2 Hz$	$M_{L}=1.1 M_{w}=0.9$ $f_{c}=32.6 Hz$	M_{L} =0.4 M_{w} =0.6 f_{c} =31.8 Hz
10 ¹¹			1 _c =44.3 n2	I _c =29.7 HZ	10-42.3 П2	- I _c =41.2 H2	- 1 _c =32.0 H2	- / _c =31.6 Hz
10 ⁹	2018156105500	2018156132827	2018157010141	2018157013858	2018157121700	2018158072013	2018158204112	2018159000959
10 ¹¹	$M_L=0.3 M_w=0.3$ $f_c=45.9 \text{ Hz}$	M_L =0.8 M_w =0.7 f_c =44.4 Hz	$M_L=0.8 M_w=0.8$ $f_c=33.7 \text{ Hz}$	$M_L = 0.5 M_W = 0.5$ $f_c = 44.4 \text{ Hz}$	M_L =0.6 M_w =0.5 f_c =52.8 Hz	$M_L=0.5 M_w=0.5$ $f_c=41.9 Hz$	$M_{L}=1.0 \ M_{W}=1.3$ $f_{c}=25.2 \ Hz$	$M_L=0.9 M_w=0.9$ $f_c=29.8 Hz$
10 ⁹		-	- Obertal		-			-
	2018159011231	2018159035257	2018159044000	2018159120046	2018159152310	2018160051518	2018160054115	2018160102510
10 ¹¹	M_{L} =0.7 M_{W} =0.7 f_{c} =38.5 Hz	$M_L=0.4 M_w=0.2$ $f_c=57.1 Hz$	$M_{L}=0.3 M_{W}=0.3$ $f_{c}=47.0 \text{ Hz}$	M_{L} =0.6 M_{W} =0.8 f_{c} =30.9 Hz	M_{L} =0.6 M_{w} =0.6 f_{c} =47.9 Hz	$M_L = 0.8 M_W = 0.8$ $f_c = 41.5 Hz$	M_{L} =0.2 M_{w} =0.1 f_{c} =65.5 Hz	M _L =1.4 M _w =1.5 =24.6 Hz
10 ⁹	2018160135358	2018160181943	2018160211026	2018161004449	2018161102425	2018161172544	2018162012825	2018162052548
	M_{L} =0.6 M_{w} =0.4 f_{c} =55.8 Hz	$M_{L}=0.6 M_{w}=0.4$ $f_{c}=46.6 Hz$	$M_{L}=0.7 M_{W}=0.6$ $f_{c}=47.0 \text{ Hz}$		$M_{L}=0.9 M_{W}=1.0$ $f_{c}=28.6 \text{ Hz}$	$M_L = 0.7 M_w = 0.7$ $f_c = 41.6 \text{ Hz}$	$M_{L}=0.9 \ M_{W}=1.0 \ f_{c}=28.8 \ Hz$	$M_{L}=0.7 M_{w}=0.7$ $f_{c}=37.6 Hz$
10 ¹¹		- 76-40.0 112				- 1,5-11.0 112	10-20.0112	
10 ⁹	2018162102701	2018162103517	2018162124708	2018162134139	2018162195803	2018162224749	2018163001121	2018163031320
10^{11}	_	$M_L=0.5 M_w=0.5$ $f_c=35.6 Hz$	$M_L=1.1 M_w=1.2$ $f_c=24.4 \text{ Hz}$	$M_L=1.0 M_W=1.2$ $f_c=23.2 \text{ Hz}$	M_{L} =0.7 M_{w} =0.5 f_{c} =49.9 Hz	$M_L=0.5 M_w=0.4$ $f_c=39.9 \text{ Hz}$	$M_L = 0.2 M_W = 0.2$ $f_C = 48.2 \text{ Hz}$	$M_L=0.4 M_w=0.4$ $f_c=54.0 \text{ Hz}$
10 ⁹	_	-	-	-	-			
	2018163115829	2018163132124	2018164031000	2018165002042	2018165152357	2018165200500	2018166021841	2018166111647
10 ¹¹	$M_L=1.0 M_w=1.0$ $f_c=35.6 Hz$	$M_L=0.4 M_w=0.4$ $f_c=37.9 \text{ Hz}$	M_{L} =0.6 M_{W} =0.6 f_{c} =31.3 Hz	$M_L = 0.4 M_w = 0.4$ $f_c = 49.9 \text{ Hz}$	M_{L} =0.6 M_{w} =0.5 f_{c} =47.0 Hz	$M_L=0.4 M_w=0.1$ $f_c=57.2 \text{ Hz}$	$M_L = 0.4 \ M_w = 0.4$ $f_c = 42.6 \ Hz$	M_{L} =0.8 M_{W} =0.9 f_{c} =25.7 Hz
10 ⁹	2018168094946	2018168112428	2018169024000	2018169033430	2018169042045	2018169213726	2018169230658	2018170012100
11	$M_{L}=0.6 M_{W}=0.6$ $f_{c}=43.0 Hz$	$M_{L}=0.4 M_{w}=0.6$ $f_{c}=28.8 \text{ Hz}$			$M_{L}=0.8 M_{W}=0.7$ $f_{c}=41.1 Hz$	$M_L=0.7 M_w=0.7$ $f_c=31.4 Hz$	$M_{L}=0.7 \ M_{W}=0.6 \ f_{c}=33.1 \ Hz$	$M_{L}=0.5 M_{w}=0.4$ $f_{c}=36.5 Hz$
10 ¹¹								
10 ⁹	2018170013500	2018170022530	2018170070706	2018170141444	2018170145100	2018170191546	2018170200105	2018170210141
10 ¹¹	M _L =1.3 M _w =1.5	M_L =0.8 M_w =0.7 f_c =28.5 Hz	$M_L = 0.8 M_W = 0.8$ $f_c = 26.8 \text{ Hz}$	-	M_L =0.7 M_w =0.6 f_c =45.0 Hz	M_L =0.8 M_w =0.7 f_c =35.7 Hz	$M_L = 0.6 M_w = 0.4$ $f_c = 52.0 \text{ Hz}$	$M_L=0.6 M_w=0.4$ $f_c=50.6 Hz$
10 ⁹	_	- Sonor	-	-	-	-		-
	2018171001230	2018171003700 	2018171005900 	2018171034700	2018171100309 	2018171100500 	2018171101020 	2018171113245
10 ¹¹		M_L =0.8 M_w =0.8 f_c =36.9 Hz	$M_{L}=1.1 M_{W}=1.3$ $f_{c}=23.8 \text{ Hz}$	1 .6 M_W =1.8 − 7a 18.3 Hz	M_{L} =0.4 M_{w} =0.4 f_{c} =41.8 Hz	$M_L=0.8 M_w=0.9$ $f_c=24.9 \text{ Hz}$	$M_L = 0.5 M_w = 0.4$ $f_c = 37.8 \text{ Hz}$	-
10 ⁹	2018171120032	2018171170704	2018171173814	2018171232614	2018171233929	2018172001100	2018172010600	2018172041700
a ^ 3 ~	$M_{L}=0.6 M_{W}=0.5$ $f_{c}=44.1 \text{ Hz}$	$M_{L}=0.8 M_{w}=0.7$ $f_{c}=41.7 Hz$	$M_{L}=1.2 M_{W}=1.4$	$M_{L}=0.8 M_{W}=0.9$ $f_{c}=27.5 \text{ Hz}$	$M_{L}=0.8 M_{W}=0.8$ $f_{c}=34.2 Hz$	$M_{L}=0.7 M_{W}=0.7$ $f_{c}=38.9 Hz$	$M_{L}=0.4 M_{W}=0.3$ $f_{c}=49.3 Hz$	$M_{L}=1.0 M_{W}=1.2$ $f_{c}=19.5 Hz$
10 ¹¹		112		27.5112]]	3.5112	
10 ⁹	2018172070230	2018172090030	2018172175518	2018172180735	2018172183326	2018172230708	2018172234909	2018173042858
10 ¹¹	$M_L = 0.9 M_w = 0.8$ $f_c = 32.8 \text{ Hz}$	M_{L} =0.7 M_{w} =0.7 f_{c} =32.8 Hz	$M_L=0.9 M_W=0.9$ $f_c=37.8 \text{ Hz}$	$M_{L}=0.5 M_{W}=0.4$ $f_{c}=40.8 Hz$	$M_L=1.0 \ M_w=1.0 \ f_c=27.9 \ Hz$	$M_L=1.1 M_W=1.3$ $f_c=21.8 Hz$	$M_L = 0.0 M_w = 0.5$ $f_c = 40.5 Hz$	$M_L = 0.6 M_w = 0.5$ $f_c = 36.6 \text{ Hz}$
10 ⁹	-	-		-	-			-
	2018173043508 	2018173072237 	2018173130130 	2018173142304 	2018173151655 	2018173181236 	2018173191258 M _L =0.6 M _w =0.4	2018173214953
10 ¹¹	6 27 5 11-	$f_{c}=36.6 \text{ Hz}$	$f_{c}=25.3 \text{ Hz}$	$f_{c}=30.0 \text{ Hz}$	$f_c = 45.5 \text{ Hz}$	$f_c = 27.6 \text{ Hz}$	f _c =46.7 Hz	$f_c = 45.2 \text{ Hz}$
10 ⁹	2018173220003	2018174040400	2018174043300	2018174062000	2018174064100	2018174085934	2018174131934	2018174154112
11	$M_{L}=1.1 M_{w}=1.1 f_{c}=24.0 Hz$		$M_{L}=0.4 M_{W}=0.4$ $f_{c}=44.4 \text{ Hz}$	$M_{L}=0.8 M_{W}=0.9$ $f_{c}=22.8 \text{ Hz}$	$M_{L}=0.5 M_{W}=0.4$ $f_{c}=43.0 \text{ Hz}$	$M_L = 0.8 M_w = 0.7$ $f_c = 40.2 Hz$	$M_{L}=0.5 M_{W}=0.6$ $f_{c}=43.6 Hz$	$M_{L}=0.7 M_{W}=0.6$ $f_{c}=34.5 Hz$
10 ¹¹					- 1,0 1510 112			
ctrum ω M (Nm) $_{60}$ L	2018175062422	2018175071713	2018175132759	2018176001813	2018176155852	2018176170554	2018176210520	2018177104730
	$M_L = 0.5 M_w = 0.4$ $f_c = 51.1 \text{ Hz}$	$M_{L}=0.9 M_{W}=1.1$ $f_{c}=27.8 \text{ Hz}$	$M_{L}=0.8 M_{W}=0.9$ $f_{c}=33.6 \text{ Hz}$	M _L =1.2 M _w =1.3 f _. =25.1 Hz	$M_L = 0.9 M_w = 1.0$ $f_c = 25.5 \text{ Hz}$	1.7-M _W =1.8 - d 17.2 Hz	M _L =1.5 M _w =1.5	$M_L = 0.6 M_w = 0.7$ $f_c = 26.5 \text{ Hz}$
source displacement spe 10 11 01 10 10 10 10 10 10 10 10 10 10		-	-		-			-
displac	2018178152609 	2018178222942 	2018179053245 	2018179233042 	2018180013150 M _L =1.1 M _w =1.2	2018180040100 M _L =0.8 M _w =1.0	2018180094138 	2018181040940 M _L =0.7 M _w =0.8
source 10 ¹¹		$f_c = 26.4 \text{ Hz}$	f _c =34.4 Hz	$f_c = 25.9 \text{ Hz}$	f _c =22.0 Hz	f _c =25.5 Hz	f _c =33.5 Hz	f _c =28.3 Hz
10 ⁹	2018181065239	2018181192300	2018182124340	2018182203248	2018182212250	2018182233301	2018183155952	2018183202531
10 ¹¹	$M_{L}=1.0 M_{W}=1.1$ $f_{c}=22.0 Hz$	$M_L = 0.6 M_w = 0.6$ $f_c = 34.0 \text{ Hz}$	$M_{L}=1.1 M_{W}=1.1$ $f_{c}=25.4 \text{ Hz}$	$M_{L}=1.2 \ M_{W}=1.3$ $f_{L}=20.9 \ Hz$	$M_L = 0.9 M_W = 1.0$ $f_c = 26.8 \text{ Hz}$	$M_L=1.1 M_w=1.1$ $f_c=25.6 Hz$	$M_{L}=1.1 M_{W}=0.9$ $f_{c}=32.5 Hz$	$M_L=0.7 M_w=0.8$ $f_c=34.4 Hz$
10^{9}			a de la companya de l	- June Bank	- Contract of the contract of	and a second		
10	2018183215029	2018184003003	2018184201046	2018184202906	2018185001326	2018185014623	2018185034551	2018185120950
10 ¹¹	$M_L=0.7 M_w=0.7$ $f_c=34.6 Hz$	$M_L=0.7 M_w=0.6$ $f_c=36.9 Hz$	M _L =1.4 M _w =1.5	-	M_L =0.8 M_w =0.7 f_c =36.3 Hz	$M_L = 0.9 M_W = 0.9$ $f_c = 31.6 \text{ Hz}$	M_L =0.5 M_w =0.4 f_c =40.4 Hz	$M_L=0.7 M_w=0.5$ $f_c=34.5 Hz$
10 ⁹	2018185145450	2018185155423	2018186070100	2018186092109	2018186115357	2018186131522	2018186202646	2018186215007
	$M_{\rm L} = 0.6 \ M_{\rm w} = 0.6$	$M_{\rm L} = 0.6 \ M_{\rm W} = 0.5$	$M_{\rm L} = 1.3 M_{\rm W} = 1.6$	$M_{L}=0.8 M_{W}=0.9$	$M_{\rm L} = 0.6 \ M_{\rm W} = 0.6$	M _L =1.4 M _w =1.5	$M_{L}=1.0 M_{W}=1.1$	$M_{L}=0.7 M_{W}=0.7$
10 ¹¹	f _c =36.4 Hz	f _c =42.8 Hz		f _c =26.3 Hz	f _c =30.5 Hz	£=22.1-Hz -	f _c =27.4 Hz	f _c =39.3 Hz
10 ⁹	2018187034808	2018187062657	2018187084836	2018188142051	2018188161324	2018188173124	2018188175428	2018188193122
10^{11}	$M_L=0.7 M_w=0.7$ $f_c=33.1 Hz$	$M_L = 0.8 M_w = 1.0$ $f_c = 24.9 \text{ Hz}$	$M_L=0.7 M_w=0.8$ $f_c=26.0 \text{ Hz}$	$M_{L}=0.6 M_{W}=0.6$ $f_{c}=41.6 Hz$	$M_L = 0.7 M_w = 0.6$ $f_c = 40.3 Hz$	$M_L = 0.6 M_w = 0.5$ $f_c = 37.3 \text{ Hz}$	$M_L=0.4 M_w=0.4$ $f_c=42.5 Hz$	$M_L = 0.5 M_w = 0.8$ $f_c = 31.7 \text{ Hz}$
10 ⁹		- Second	-	- Constant			-	-
	2018188202905	2018188214438	2018188214700	2018188214802	2018189060720	2018189070845	2018189095118	2018189132738
10 ¹¹	M_L =0.8 M_w =0.8 f_c =30.1 Hz	$M_L=0.8 M_w=0.8$ $f_c=31.8 \text{ Hz}$	M_{L} =0.6 M_{w} =0.7 f_{c} =31.8 Hz	$M_{L}=0.8 M_{W}=0.9$ $f_{c}=28.1 \text{ Hz}$	M_{L} =0.6 M_{w} =0.6 f_{c} =39.6 Hz	f _c 16.8 Hz	M_L =0.5 M_w =0.4 f_c =41.6 Hz	$M_L = 0.6 M_w = 0.6$ $f_c = 35.9 \text{ Hz}$
10 ⁹	2018189132728	2018189142028	2018189152317	2018189160854	2018189163251	2018189173537	2018189195043	2018190005253
<u>.</u> . • •	$M_{L}=1.1 M_{W}=1.2$ $f_{c}=28.5 \text{ Hz}$	$M_{L}=0.3 M_{w}=0.3$ $f_{c}=40.1 \text{ Hz}$	$M_{L}=0.8 M_{W}=0.8$ $f_{c}=34.4 \text{ Hz}$	$M_{L}=1.3 M_{W}=1.6$	$M_{L}=0.5 M_{W}=0.3$ $f_{c}=49.5 Hz$	$M_{L}=0.6 M_{W}=0.6$ $f_{c}=37.2 Hz$	M _L =1.3 M _W =1.5	$M_{L}=0.8 M_{W}=0.9$ $f_{c}=29.3 \text{ Hz}$
10 ¹¹	The state of the s						- The state of the	
T0 _a	2018190020811	2018190025747	2018190155046	2018193142500	2018193204529	2018194085018	2018194133411	2018195011432
10 ¹¹	$M_L=0.6 M_w=0.4$ $f_c=43.0 \text{ Hz}$	$M_L=0.9 M_w=1.1$ $f_c=21.6 Hz$	$M_L=0.5 M_w=0.4$ $f_c=49.7 \text{ Hz}$	$M_L = 0.6 M_w = 0.6$ $f_c = 33.4 \text{ Hz}$	M_{L} =0.8 M_{w} =0.8 f_{c} =27.9 Hz	M_L =0.8 M_w =0.9 f_c =25.8 Hz	-	M_{L} =0.7 M_{w} =0.7 f_{c} =38.3 Hz
10 ⁹		2019105100011	201010517005	2019105105212	2019106002027	2019106010705	2018196071020	2018106122041
	2018195074501 	2018195123640 	2018195172331 M _L =0.6 M _w =0.4	2018195195343 M _L =0.6 M _w =0.6	2018196003937 	2018196010738 	2018196071020 	2018196133941
10 ¹¹		f _c =33.9 Hz	f_{c} =48.1 Hz	$f_c = 37.3 \text{ Hz}$	7.2.13.2 Hz	$f_c = 29.0 \text{ Hz}$	f _c =43.4 Hz	- 1.5 M _W = 1.0 E = 17.4 Hz
10 ⁹	2018196200450	2018197015541	2018197070436	2018197091659	2018197172535	2018197183626	2018199080816	2018199104200
10 ¹¹	$M_L = 0.9 M_w = 1.1$ $f_c = 24.4 \text{ Hz}$	$M_L = 0.7 M_W = 0.6$ $f_c = 48.9 \text{ Hz}$	M_{L} =0.5 M_{w} =0.4 f_{c} =46.2 Hz	$M_{L}=0.5 M_{W}=0.4$ $f_{c}=48.3 \text{ Hz}$	$M_{L}=1.2 M_{W}=1.5$	$M_L = 0.5 M_w = 0.5$ $f_c = 42.1 \text{ Hz}$	M_{L} =0.5 M_{W} =0.4 f_{c} =53.0 Hz	$M_{L}=1.0 M_{W}=1.1$ $f_{c}=27.9 Hz$
10	- Total State of the state of t				***************************************			
	2018199170820	2018199170914	2018199194117	2018199204703	2018199224500	2018200015608	2018200040208	2018200082657
10 ¹¹	$M_L=1.1 M_w=1.1$ $f_c=26.2 \text{ Hz}$		$M_{L}=0.9 M_{W}=0.9$ $f_{c}=31.9 Hz$	M _L =1.2 M _w =1.4 <u>f</u> =25.0 Hz	$M_{L}=1.5 M_{W}=1.6$ T=19.5 Hz	$M_L = 0.6 M_w = 0.4$ $f_c = 49.6 \text{ Hz}$	M_{L} =0.7 M_{w} =0.9 f_{c} =27.3 Hz	$M_L=0.6 M_w=0.5$ $f_c=44.9 Hz$
10 ⁹	2018200100833	2018200100919	2018200102006	2018200105407	2018200105452	2018200105703	2018200134612	2018200143037
	$M_{L}=0.4 M_{w}=0.5$	$M_{\rm L} = 0.8 \ M_{\rm W} = 0.7$	2010200102000	$M_{L}=0.6 M_{W}=0.5$	$M_{L}=0.7 M_{W}=0.7$	$M_{L}=1.2 M_{W}=1.1$	$M_{L}=0.5 M_{W}=0.4$	$M_{\rm L}=0.5~M_{\rm W}=0.5$
10 ¹¹		f _c =37.4 Hz	-	f _c =32.5 Hz	f _c =32.2 Hz	f _c =31.1 Hz	f _c =40.8 Hz	f _c =41.5 Hz
10 ⁹	2018200170651	2018200191849	2018201073346	2018201152715	2018202112855	2018202134535	2018202144515	2018202222748
10 ¹¹	$M_L = 0.5 M_w = 0.3$ $f_c = 48.9 \text{ Hz}$	M_{L} =0.5 M_{w} =0.5 f_{c} =46.7 Hz		$M_{L}=0.6 M_{W}=0.5$ $f_{c}=41.7 Hz$	$M_{L}=0.7 M_{W}=0.7$ $f_{c}=36.2 Hz$	$M_{L}=0.5 M_{W}=0.4$ $f_{c}=43.1 \text{ Hz}$	$M_{L}=0.7 M_{W}=0.5$ $f_{c}=46.8 Hz$	$M_{L}=1.0 M_{W}=1.1$ $f_{c}=29.9 \text{ Hz}$
10 ¹¹								- The state of the
10,	2018202225701	2018202234429	2018203030928	2018203081713	2018203090059	2018203113243	2018203124722	2018203171420
10 ¹¹	$M_L=0.5 M_w=0.4$ $f_c=43.1 \text{ Hz}$	$M_{L}=1.1 M_{W}=1.1$ $f_{c}=27.6 \text{ Hz}$	$M_{L}=0.7 M_{W}=0.7$ $f_{c}=35.9 \text{ Hz}$	$M_L = 0.5 M_w = 0.4$ $f_c = 42.6 \text{ Hz}$	M _L =1.4 M _W =1.4 £=24.1 Hz	$M_L = 0.9 M_W = 1.2$ $f_c = 23.4 \text{ Hz}$	$M_{L}=0.5 M_{w}=0.5$ $f_{c}=40.9 \text{ Hz}$	- 35
i	1	-				700		⊪ 21 .≘
10 ⁹		-	-	-	-	-	-	- 28 sugartion - 24 sugartion - 7
10 ⁹	2018203174444	2018203230921	2018203232316	2018204160756 10 100 frequency (Hz)	2018204220258	2018204234743	2018205205035	- 14 rstat