	MSM-OCEAN	F01-P06-TEST-MB-WAVE3
	MB WAVES 03	DATE: 24/01/20
		Ed 02

CALIBRATION AND TEST REPORT

MB-WAVES 03

ORDER DATA	N°	PV20-250	CUSTOMER	Elecom Sp. z
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SERIAL NUMBER	
MB-Wave unit	039
MB-Wave PCB	920005
Motion reference unit	045004675

MB-WAVE Configuration	
DIAGNOSTIC	
Verify FW 1.07 is updated	<input checked="" type="checkbox"/> OK
Bootloader SW	V2
Wave height (min., max) (m.)	0.00 - 30
Wave period (min., max) (s.)	3 - 90
Wave direction	Where the wave comes from.
Measure time	20 minutes
Battery voltage	10 to 36V <input checked="" type="checkbox"/> OK
Power Avg. 30'	200< P< 350 mW <input checked="" type="checkbox"/> OK

SD CARD MEMORY					
MEMORY	Cap.	8 to 128 GB	32 GB	Extreme PRO	CLASS 10

GNSS ~ GPS			
Visible satellites	12	Used satellites	8
Sat. Adq time	< 5 minutes <input checked="" type="checkbox"/> OK		


Date: 10-07-20

Tested by: Oscar Aponte

MB-WAVE MESSAGE OUT VERIFICATION				
MESSAGE DATA				
Date/time UTC	<input checked="" type="checkbox"/> OK	RS232 baud.	4800	<input checked="" type="checkbox"/> OK
WGS84 Position.	<input checked="" type="checkbox"/> OK	Verb mode.	NO	<input checked="" type="checkbox"/> OK
NMEA out.	<input checked="" type="checkbox"/> OK			

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BASIC PERIPHERALS			
SUPPLY+ DATA CABLE			
CABLE TYPE	Cable 6x0.5 PUR	LENGTH	1 meter
OPERATION	<input checked="" type="checkbox"/> OK	VISUAL INSPECTION	OK <input checked="" type="checkbox"/>
GPS CABLE			
CABLE TYPE	RG-58 N-TNC	LENGTH	3 meters
OPERATION	<input checked="" type="checkbox"/> OK	VISUAL INSPECTION	OK <input checked="" type="checkbox"/>
ANTENA GPS			
MANUFACTURER	PROCOM	MODEL	GPS-2000
OPERATION	<input checked="" type="checkbox"/> OK	VISUAL INSPECTION	OK <input checked="" type="checkbox"/>

MOTION TEST AND CALIBRATION

Motion Reference UNIT


Serial number: 045004675

Date: 14-7-2020

Accelerometers status	X	Y	Z	Result
Accelerometer bias	Pass	Pass	Pass	Pass
Accelerometers gain	Pass	Pass	Pass	Pass
Accelerometer noise	Pass	Pass	Pass	Pass
Accelerometers alignment	Pass	Pass	Pass	Pass
				Pass

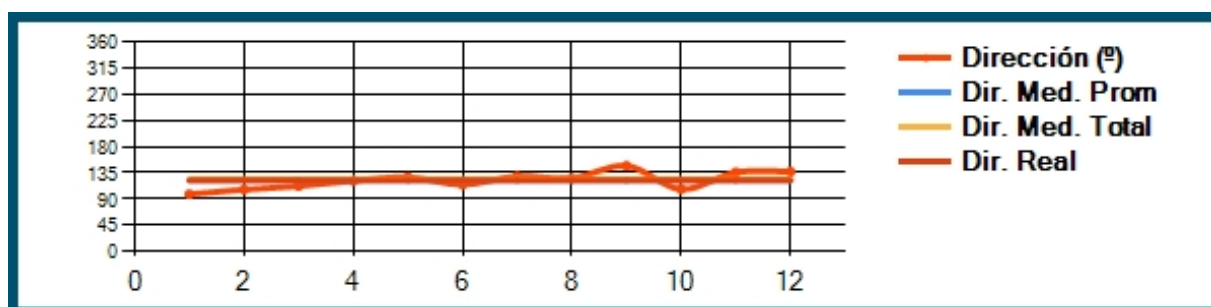
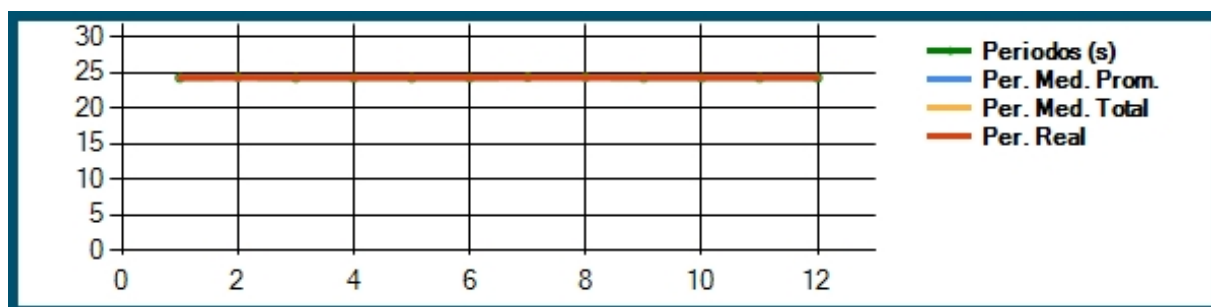
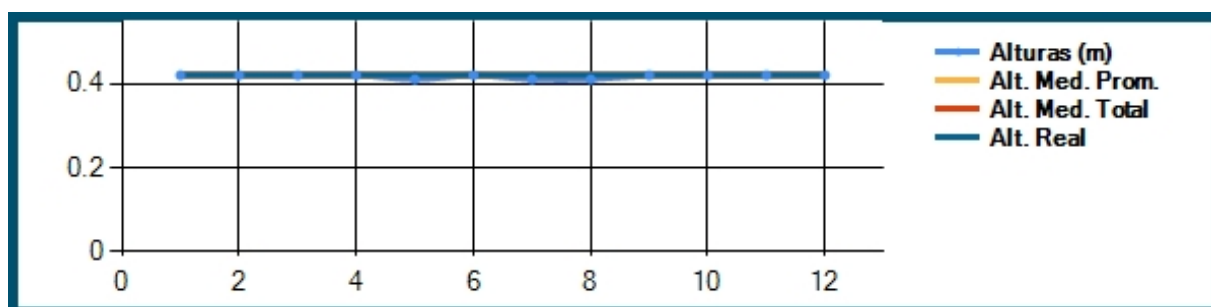
Gyroscopes status	X	Y	Z	Result
Gyroscopes bias	Pass	Pass	Pass	Pass
Gyroscopes gain	Pass	Pass	Pass	Pass
Gyroscopes noise	Pass	Pass	Pass	Pass
Gyroscopes linearity	Pass	Pass	Pass	Pass
Gyroscopes alignment	Pass	Pass	Pass	Pass
Gyroscopes g sensitivity	Pass	Pass	Pass	Pass
				Pass


Magnetometers status	X	Y	Z	Result
Magnetometers gain	Pass	Pass	Pass	Pass
Magnetometers noise	Pass	Pass	Pass	Pass
				Pass

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HEAVE ACCURACY

Test	General avg.	Partial avg.	Real data	Disp	ECM	OK
Height	0.42	0.42	0.42	0	0.01	☒
Period	24.3	24.3	24.3	0	0	☒
Direction	123.8	121.9	121.9	11.9	13.9	☒



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ROTATION ACCURACY

Test rotation	<input checked="" type="checkbox"/> OK
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VERTICAL DRIFT

Test vertical drift	<input checked="" type="checkbox"/> OK
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Motion test

Date: 10-07-20

Tested by: Oscar Aponte

PACKING			
DC+DATA CABLE	<input checked="" type="checkbox"/> OK	GPS CABLE	4800 <input checked="" type="checkbox"/> OK
GPS ANTENA	<input checked="" type="checkbox"/> OK	LABEL	<input checked="" type="checkbox"/> OK
FIXING SCREWS	<input checked="" type="checkbox"/> OK		
VULCANIZING TAPE FOR EXTERNAL ANTENNA			<input checked="" type="checkbox"/> OK

Date: 10-07-20

Tested by: M. Martí

FINAL APPROVAL

Date: 14-7-2020

Tested by: M. Martí