

## FCC Statement of compliance to SAR

Applicant : TELE RADIO AB  
Datavägen 21, SE-436 32 Askim, Sweden

Manufacturer : TELE RADIO AB  
Datavägen 21, SE-436 32 Askim, Sweden

Product Name : Transceiver radio modular

Type/Model : CL-TR600-1, D00005-15, D5-15

TEST RESULT : PASS

**According to §2.1091, §2.1093 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.**

Seen from the test report 160600920SHA-001:

The Maximum peak output power = 26.20dBm = 416.869mW;

The Maximum Antenna Gain = 4.00dBi = 2.512;

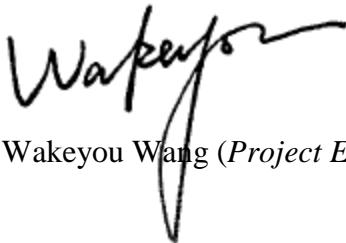
According to measured value from Appendix I, duty cycle = 1.014ms / 39.855ms = 2.54%;

According to SAR Distance Assessment from Appendix II, the separation distance is 50mm;

The time-averaged radiated power = 416.869mW \* 2.512 \* 2.54% = 26.60mW < 96mW (Test Exclusion Thresholds of 2450MHz at 50mm which can be referred in Appendix III)

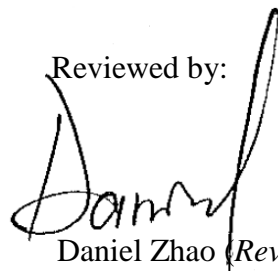
Date of issue: Oct 25, 2016

Prepared by:



Wakeyou Wang (*Project Engineer*)

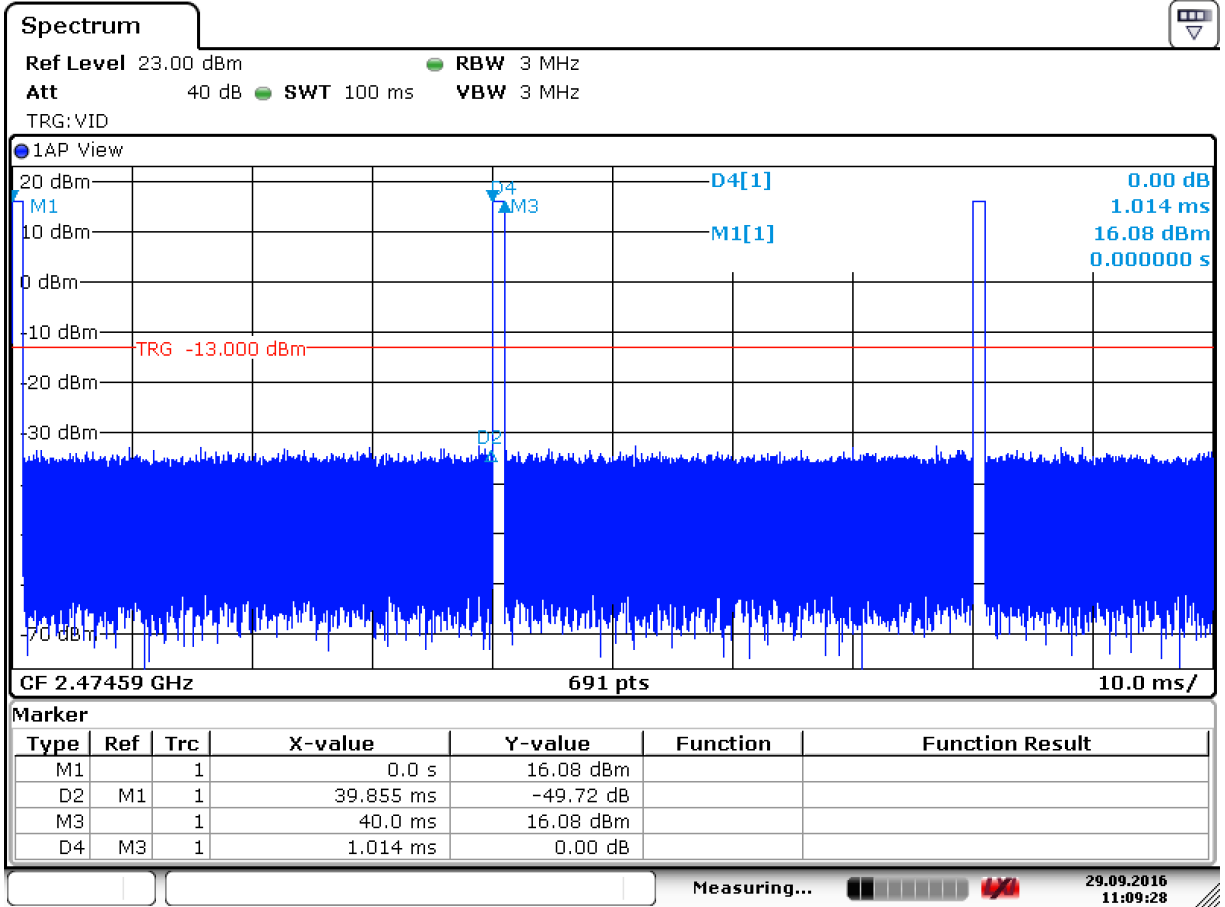
Reviewed by:



Daniel Zhao (*Reviewer*)

## Appendix I: Duty Cycle calculation

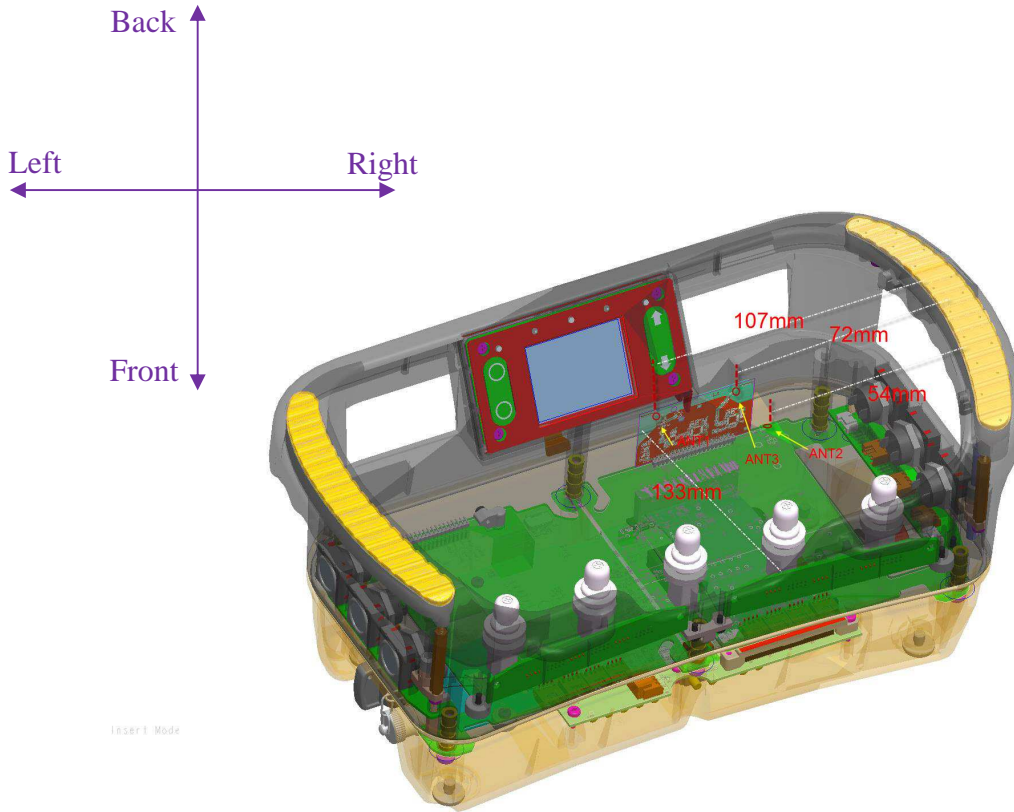
Dwell time for single burst = 1.014ms, Dwell time for one cycle = 39.855ms. therefore, the duty cycle = 1.014ms / 39.855ms = 2.54%.



Date: 29.SEP.2016 11:09:28

## Appendix II: SAR Distance Assessment

See from the graph below together with the user manual, among normal use, the shortest distance between human body and the antenna is 54mm.



The shortest distance between human body and the antenna:

Left direction: 165mm.

Right direction: 54mm.

Front direction: 133mm.

Back direction: Not touched among normal use (please refer to the user manual).

## Appendix III SAR Test Exclusion Thresholds

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\geq 50$  mm extracted from Appendix A of KDB447498 D01 General RF Exposure Guidance v06 is showed below:

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
150	387	397	407	417	427	437	447	457	467	477	487	497	507	517	527	
300	274	294	314	334	354	374	394	414	434	454	474	494	514	534	554	
450	224	254	284	314	344	374	404	434	464	494	524	554	584	614	644	
835	164	220	275	331	387	442	498	554	609	665	721	776	832	888	943	
900	158	218	278	338	398	458	518	578	638	698	758	818	878	938	998	
1500	122	222	322	422	522	622	722	822	922	1022	1122	1222	1322	1422	1522	
1900	109	209	309	409	509	609	709	809	909	1009	1109	1209	1309	1409	1509	
2450	96	196	296	396	496	596	696	796	896	996	1096	1196	1296	1396	1496	
3600	79	179	279	379	479	579	679	779	879	979	1079	1179	1279	1379	1479	
5200	66	166	266	366	466	566	666	766	866	966	1066	1166	1266	1366	1466	
5400	65	165	265	365	465	565	665	765	865	965	1065	1165	1265	1365	1465	
5800	62	162	262	362	462	562	662	762	862	962	1062	1162	1262	1362	1462	