

Statement of compliance to SAR

Applicant : RAE Systems Inc.
3775 N. 1st St., San Jose, California USA 95134.

Manufacturer : RAE Systems Inc.
3775 N. 1st St., San Jose, California USA 95134.

Equipment : RAE Mesh module

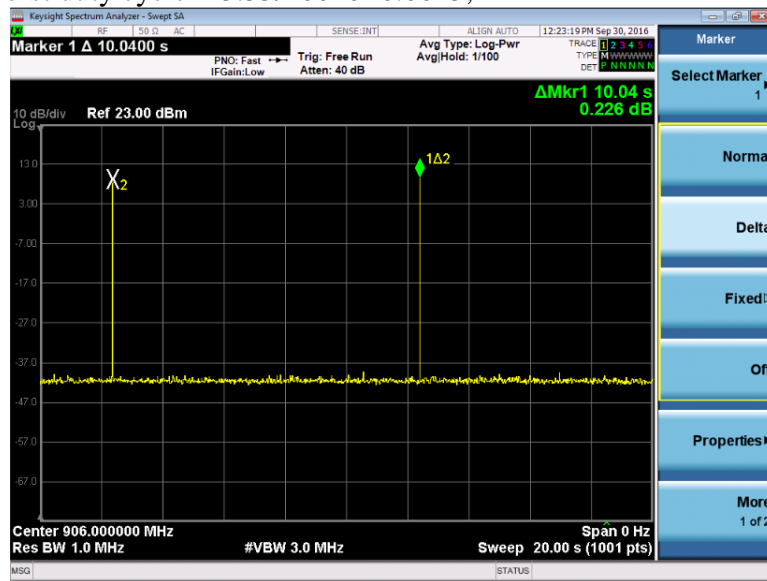
Type/Model : RM900

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.

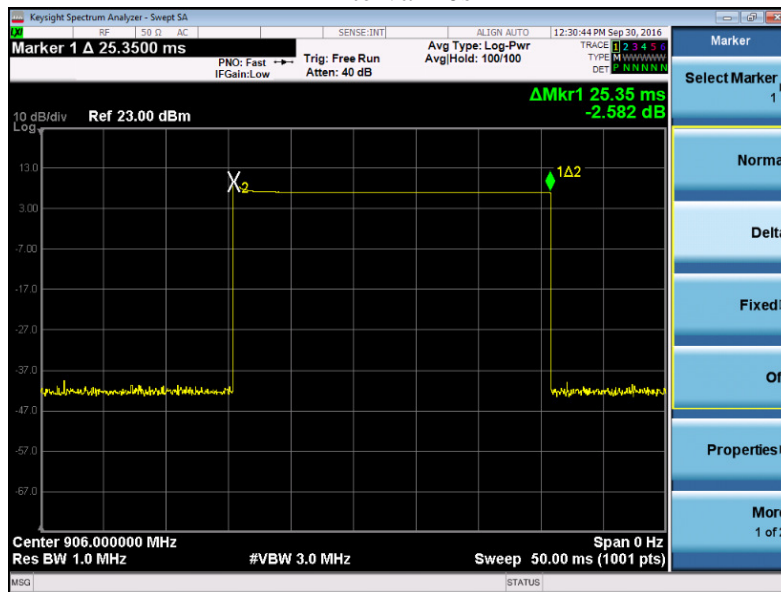
Seen from the test report 160700799SHA-001:

The Maximum power = 11dBm;

This device for the worst duty cycle= $25.35/10040=0.0025$,



Interval 10s



transmit time 25.4ms

The corrected output power: $11\text{dBm} + 10\lg(0.0025) = -15.02\text{dBm} = 0.031\text{mW}$

The Maximum power = $0.031\text{mW} < 16\text{mW}$ (Test Exclusion Thresholds of 900MHz at 5mm which can be referred in Appendix I). Therefore, the SAR requirement is deemed to be satisfied without test

Date of issue: Aug 30, 2016

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Daniel Zhao

Daniel Zhao (Reviewer)

Appendix I SAR Test Exclusion Thresholds

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm extracted from Appendix A of KDB447498 D01 General RF Exposure Guidance v05r01 is showed below:

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	