

GTS

1. General Information

	Product Name:	CR400 CAN
	Model No.:	CR400 CAN
3	FCC ID:	2AG69-CR400N
	Contains FCC ID:	RI7ME910G1WW

2. RF Exposure Evaluation

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposures									
0.3–3.0	614	1.63	*(100)	6					
3.0–30	1842/f	4.89/f	*(900/f ²)	6					
30–300	61.4	0.163	1.0	6					
300–1500			f/300	6					
1500–100,000			5	6					
(B) Limits for General Population/Uncontrolled Exposure									
0.3–1.34	614	1.63	*(100)	30					
1.34–30	824/f	2.19/f	*(180/f ²)	30					
30–300	27.5	0.073	0.2	30					
300–1500			f/1500	30					
1500-100,000			1.0	30					

f = frequency in MHz

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.





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Test Result of RF Exposure Evaluation

Installation of device under Dashboard behind steering wheel:







The distance between user and products should be no less than 20cm.



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Mode	Antenna gain (dBi)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm2)	Result
BLE	1.88	3.21	2.09	0.0006	1.000	PASS
GSM850	2.14	27.48	559.76	0.183	0.566	PASS
GSM1900	2.14	25.99	397.19	0.130	1.000	PASS
LTE-B2	2.14	23.69	233.88	0.076	1.000	PASS
LTE-B4	2.14	23.86	243.22	0.079	1.000	PASS
LTE-B5	2.14	23.51	224.39	0.073	0.566	PASS
LTE-B12	2.14	23.46	221.82	0.072	0.477	PASS
LTE-B13	2.14	23.04	201.37	0.066	0.525	PASS
LTE-B25	2.14	23.75	237.14	0.077	1.000	PASS
LTE-B26	2.14	23.87	243.78	0.080	0.566	PASS
LTE-B66	2.14	23.81	240.44	0.078	1.000	PASS
LTE-B85	2.14	23.24	210.86	0.069	0.477	PASS
NB-IOT-B2	2.14	23.86	243.22	0.079	1.000	PASS
NB-IOT-B4	2.14	23.62	230.14	0.075	1.000	PASS
NB-IOT-B5	2.14	23.24	210.86	0.069	0.566	PASS
NB-IOT-B12	2.14	23.56	226.99	0.074	0.477	PASS
NB-IOT-B13	2.14	23.68	233.35	0.076	0.525	PASS
NB-IOT-B25	2.14	23.70	234.42	0.076	1.000	PASS
NB-IOT-B26	2.14	23.86	243.22	0.079	0.563	PASS
NB-IOT-B66	2.14	23.81	240.44	0.078	1.000	PASS
NB-IOT-B71	2.14	21.89	154.53	0.050	0.465	PASS
NB-IOT-B85	2.14	23.63	230.67	0.075	0.477	PASS

The maximum simultaneously transmitting were as below

BLE+GSM: 0.1836<1 BLE+LTE: 0.0806<1

The max power density is less than MPE exempt limit, so it is compliance.