

MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

Applicant: FJ Dynamics Co.,Ltd

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Product Name: GNSS Receiver

FCC ID: 2A2LL-V10L

Standard(s): 47 CFR §1.1310, 47 CFR §2.1091,
47 CFR §15.247(i), 47 CFR §15.407(f)

Report Number: 2602P06299E-RF-00G

Report Date: 2026/6/3

The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2602P06299E-RF-00G	Original Report	2026/6/3

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	GNSS Receiver
EUT Model:	V10L
Rated Input Voltage:	DC 9~32V, Typical: DC 12V from AC/DC Adapter; or DC 7.27V from Built-in Battery
EUT Received Date:	2026/2/2
EUT Received Status:	Good

2. RF EXPOSURE EVALUATION (MPE)

2.1 RF Exposure Evaluation

2.1.1 Applicable Standard

According to subpart 15.247(i), 15.407(f) and subpart §1.1310, 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.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
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; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

2.1.2 Calculation formula

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

2.1.3 Calculated Data:

Operation Modes	Frequency (MHz)	Antenna Gain [▲]		Conducted output power including Tune-up Tolerance [▲]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BT	2402-2480	-0.62	0.87	11.5	14.13	20.00	0.0024	1.0
BLE	2402-2480	-0.62	0.87	1.0	1.26	20.00	0.0002	1.0
SRD	902.6-927.8	3.61	2.30	-4.0	0.40	20.00	0.0002	0.6
2.4G Wifi	2412-2462	-0.62	0.87	22.0	158.49	20.00	0.0273	1.0
5G Wifi	5150-5250	-1.85	0.65	16.0	39.81	20.00	0.0052	1.0
	5250-5350	-1.80	0.66	16.0	39.81	20.00	0.0052	1.0
	5470-5725	-0.33	0.93	16.0	39.81	20.00	0.0073	1.0
	5725-5850	0.37	1.09	16.0	39.81	20.00	0.0086	1.0
GSM850	824-849	3.81	2.40	35.0	3162.28	20.00	0.1824	0.5
PCS1900	1850-1910	-0.11	0.97	31.0	1258.93	20.00	0.0294	1.0
WCDMA B2	1850-1910	-0.11	0.97	25.0	316.23	20.00	0.0614	1.0
WCDMA B4	1710-1755	1.65	1.46	25.0	316.23	20.00	0.0920	1.0
WCDMA B5	824-849	3.81	2.40	25.0	316.23	20.00	0.1513	0.5
LTE B2	1850-1910	-0.11	0.97	25.0	316.23	20.00	0.0614	1.0
LTE B4	1710-1755	1.65	1.46	25.0	316.23	20.00	0.0920	1.0
LTE B5	824-849	3.81	2.40	25.0	316.23	20.00	0.1513	0.5
LTE B7	2500-2570	3.01	2.00	25.0	316.23	20.00	0.1259	1.0
LTE B12	699-716	-1.41	0.72	25.0	316.23	20.00	0.0455	0.5
LTE B13	777-787	2.70	1.86	25.0	316.23	20.00	0.1172	0.5
LTE B14	788-798	2.70	1.86	25.0	316.23	20.00	0.1172	0.5
LTE B17	704-716	-1.41	0.72	25.0	316.23	20.00	0.0455	0.5
LTE B25	1850-1915	-0.11	0.97	25.0	316.23	20.00	0.0614	1.0
LTE B26	814-849	3.81	2.40	25.0	316.23	20.00	0.1513	0.5
LTE B38	2570-2620	3.45	2.21	25.0	316.23	20.00	0.1393	1.0
LTE B41	2496-2690	3.45	2.21	25.0	316.23	20.00	0.1393	1.0
LTE B66	1710-1780	1.65	1.46	25.0	316.23	20.00	0.0920	1.0
LTE B71	663-698	-4.12	0.39	25.0	316.23	20.00	0.0244	0.4

Note:

1. The Antenna Gain and Conducted output power including Tune-up Tolerance provided by manufacturer.

2. For GSM 850/PCS1900, Calculate using Frame-average power as conducted power.

GSM 850, Frame-average power=Burst power+ Division Factors(-9.19)=35-9.19=25.81dBm

PCS1900, Frame-average power=Burst power+ Division Factors(-9.19)=31-9.19=21.81dBm

Burst power is Average power, which is provided by manufacturer.

For Simultaneous transmission:

Bluetooth, Wifi and WWAN can't transmit simultaneously, but Bluetooth, Wifi or WWAN can transmit simultaneously with SRD:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$$= S_{SRD} / S_{limit-SRD} + S_{WWAN} / S_{limit-WWAN}$$

$$= 0.0002/0.6 + 0.1824/0.5$$

$$= 0.37 < 1$$

Result: The device meet FCC MPE at 20 cm distance

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2602P06299E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2602P06299E-RF-INP EUT INTERNAL PHOTOGRAPHS.

******* END OF REPORT *******