

TEST REPORT

Applicant: MeiG Smart Technology Co., Ltd
Address: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China.
Equipment Type: Multi-mode 5G/LTE Smart Module
Model Name: SRM955
Brand Name: MEIGLink
FCC ID: 2APJ4-SRM955
Test Standard: 47 CFR Part 2.1091
KDB 447498 D01 v07
Test Date: Nov. 01, 2022 – Mar. 09, 2023
Date of Issue: Mar. 09, 2023

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Jiamin Lu

Checked by: Xu Rui

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(Chief Engineer)

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Feb. 21, 2023</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Mar. 09, 2023</u>	<u>According to client's requirements, Retest the data presented in this report for WCDMA Band4, LTE Band4/66,NR Band n66, and EN-DC 5A n66A.</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	MeiG Smart Technology Co., Ltd
Address	2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang,Fuyong Street, Bao'an District, Shenzhen, China.

2.2 Manufacturer Information

Manufacturer	MeiG Smart Technology Co., Ltd
Address	2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang,Fuyong Street, Bao'an District, Shenzhen, China.

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Multi-mode 5G/LTE Smart Module
Model Name Under Test	SRM955
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	M955128AHC061500005
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Not Applicable

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz 3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/14/17/25/29/30/46/66/71 LTE TDD Band 38/41/42/43/48 LTE CA Downlink (DL): Refer to the manufacturer's specifications 5G Network SA: NR n2/n5/n12/n25/n30/n38/n41/n48/n66/n71/n77/n78 NR MIMO n41/n77/n78 NSA(EN-DC): DC_2A_n5A/DC_30A_n5A/DC_66A_n5A/DC_48A_n5A/DC_2A_n66A/DC_5A_n66A/DC_12A_n66A/DC_30A_n66A/DC_14A_n66A/DC_48A_n66A/DC_13A_n66A/DC_5A_n2A/DC_12A_n2A/DC_30A_n2A/DC_66A_n2A/DC_14A_n2A/DC_13A_n2A/DC_2A_n30A/DC_5A_n30A/DC_12A_n30A/DC_14A_n30A/DC_66A_n30A/DC_2A_n77A/DC_66A_n77A/DC_12A_n77A/DC_14A_n77A/DC_13A_n77A/DC_5A_n77A/DC_66A_n71A/DC_2A_n71A/DC_2A_n41A/DC_12A_n25A/DC_66A_n25A/DC_48A_n25A/DC_2A_n48A/DC_66A_n48A Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), 802.11ax(HE20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160) U-NII-1/2A/2C/3, 6G WIFI 802.11a, 802.11ax(HE20/40/80/160) U-NII-5/6/7/8 GPS/GLONASS/BeiDou, L1+L5 GPS
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM/GPRS/EGPRS 850/ 1900 MHz WCDMA/HSDPA/HSUPA Band 2/ 4/ 5 FDD LTE Band 2/4/5/7/12/13/14/17/25/30/66/B71 TDD LTE Band 38/41/42/43/48 SA: NR n2/n5/n12/n25/n30/n38/n41/n48/n66/n71/n77/n78 NR MIMO n41/n77/n78 NSA(EN-DC): DC_2A_n5A/DC_30A_n5A/DC_66A_n5A/DC_48A_n5A/DC_2A_n66A/DC_5A_n66A/DC_12A_n66A/DC_30A_n66A/DC_14A_n66A/DC_48A_n66A/DC_13A_n66A/DC_5A_n2A/DC_12A_n2A/DC_30A_n2A/DC_66A_n2A/DC_14A_n2A/DC_13A_n2A/DC_2A_n30A/DC_5A_n30A/DC_12A_n30A/DC_14A_n30A/DC_66A_n30A/DC_2A_n77A/DC_66A_n77A/DC_12A_n77A/DC_14A_n77A/DC_13A_n77A/DC_5A_n77A/DC_66A_n71A/DC_2A_n71A/DC_2A_n41A/DC_12A_n25A/DC_66A_n25A/DC_48A_n25A/DC_2A_n48A/DC_66A_n48A Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), 802.11ax(HE20/40/160) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
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	U-NII-1/2A/2C/3, 6G WIFI 802.11a, 802.11ax(HE20/40/80/160) U-NII-5/6/7/8	
Frequency Range	Bluetooth	2400 ~ 2483.5 MHz
	2.4G WIFI	2400 ~ 2483.5 MHz
	5G WIFI	U-NII-1: 5150 ~ 5250 MHz,
		U-NII-2A: 5250 ~ 5350 MHz,
		U-NII-2C: 5470 ~ 5725 MHz,
		U-NII-3: 5725 ~ 5850 MHz
	6G WIFI	U-NII-5: 5925 ~ 6425 MHz
		U-NII-6: 6425 ~ 6525 MHz
		U-NII-7: 6525 ~ 6875 MHz
		U-NII-8: 6875 ~ 7125 MHz
	GSM850	TX: 824 ~ 849 MHz RX: 869 ~ 894 MHz
	GSM1900	TX:1850 ~ 1910 MHz RX: 1930 ~ 1990 MHz
	WCDMA B2	TX: 1850 ~ 1910 MHz RX: 1930 ~ 1990 MHz
	WCDMA B4	TX: 1710 ~ 1755 MHz RX: 2110 ~ 2155 MHz
	WCDMA B5	TX: 824 ~ 849 MHz RX: 869 ~ 894 MHz
	LTE B2	TX: 1850 ~ 1910 MHz RX: 1930 ~ 1990 MHz
	LTE B4	TX: 1710 ~ 1755 MHz RX: 2110 ~ 2155 MHz
	LTE B5	TX: 824 ~ 849 MHz RX: 869 ~ 894 MHz
	LTE B7	TX: 2500 ~ 2570 MHz RX: 2620 ~ 2690 MHz
	LTE B12	TX: 699 ~ 716 MHz RX: 729 ~ 746 MHz
	LTE B13	TX: 777 ~ 787 MHz RX: 746 ~ 756 MHz
	LTE B14	TX: 788 ~ 798 MHz RX: 758 ~ 768 MHz
	LTE B17	TX: 704 ~ 716 MHz RX: 734 ~ 746 MHz
	LTE B25	TX: 1850 ~1915 MHz RX: 1930 ~ 1995 MHz
	LTE B30	TX: 2305 ~ 2315 MHz RX: 2350 ~ 2360 MHz
	LTE B66	TX: 1710 ~ 1780 MHz RX: 2110 ~ 2200 MHz
	LTE B71	TX: 663 ~ 698 MHz RX: 617 ~ 652 MHz
	LTE B38	TX: 2570 ~ 2620 MHz RX: 2570 ~ 2620 MHz
	LTE B41	TX: 2496 ~ 2690 MHz RX: 2496 ~ 2690 MHz
	LTE B48	TX: 3550 ~ 3700 MHz RX: 3550 ~ 3700 MHz
	NR n2	TX: 1850 ~ 1910 MHz RX: 1930 ~ 1990 MHz
	NR n5	TX: 824 ~ 849 MHz RX: 869 ~ 894 MHz
	NR n12	TX: 699 ~ 716 MHz RX: 729 ~ 746 MHz
	NR n25	TX: 1850 ~1915 MHz RX: 1930 ~ 1995 MHz
	NR n30	TX: 2305 ~ 2315 MHz RX: 2350 ~ 2360 MHz
	NR n66	TX:1710 ~ 1780 MHz RX: 2110 MHz ~ 2200 MHz
	NR n71	TX: 663 ~ 698 MHz RX: 617 MHz ~ 652 MHz
	NR n38	TX: 2570 ~ 2620 MHz RX: 2570 MHz ~ 2620 MHz
	NR n41	TX: 2496 ~ 2690 MHz RX: 2496 MHz ~ 2690 MHz
	NR n48	TX: 3550 ~ 3700 MHz RX: 3550 MHz ~ 3700 MHz
	NR n77	TX: 3450 ~ 3550MHz RX: 3450 MHz ~ 3550MHz

		TX: 3700~ 3980MHz	RX: 3700MHz ~ 3980MHz
		TX: 3450 ~ 3650MHz	RX: 3450 MHz ~ 3650MHz
		TX: 3650 ~ 3700MHz	RX: 3650 MHz ~ 3700MHz
	NR n78	TX: 3450 ~ 3550MHz	RX: 3450 MHz ~ 3550MHz
		TX: 3700~ 3800MHz	RX: 3700MHz ~ 3800MHz
		TX: 3450 ~ 3650MHz	RX: 3450 MHz ~ 3650MHz
		TX: 3650 ~ 3700MHz	RX: 3650 MHz ~ 3700MHz
Antenna Type	Bluetooth	External Antenna	
	2.4G WIFI	External Antenna	
	5G WIFI	External Antenna	
	6G WIFI	External Antenna	
	WWAN	External Antenna	
Exposure Category	General Population/Uncontrolled Exposure		
EUT Stage	Mobile Device		

Note1: The EUT information provided by the applicant, except for The Max RF Conducted Power. For more detailed band specifications and features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
2	KDB 447498 D01 v07	KDB 447498 D01 General RF Exposure Guidance

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Device:

CFR Title 47 §2.1091(b)

(b) For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D01 General RF Exposure Guidance v07 Limit

Devices operating in standalone mobile exposure conditions may contain a single transmitter or multiple transmitters that do not transmit simultaneously. A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of § 2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated. The minimum test separation distance required for a device to comply with mobile exposure conditions must be clearly identified in the installation and operating instructions, for all installation and exposure conditions, to enable users and installers to comply with RF exposure requirements. For mobile devices that have the potential to operate in portable device exposure conditions, similar to the configurations described in § 2.1091(d)(4), a KDB inquiry is required to determine the SAR test requirements for demonstrating compliance.

When the categorical exclusion provision of § 2.1091(c) applies, the minimum test separation distance may be estimated, when applicable, by simple calculations according to plane-wave equivalent conditions, to ensure the transmitter and its antenna(s) can operate in manners that meet or exceed the estimated distance. The source-based time-averaged maximum radiated power, according to the maximum antenna gain, must be applied to calculate the field strength and power density required to establish the minimum test separation distance. When the estimated test separation distance becomes overly conservative and does not support compliance, MPE measurement or computational modeling may be used to determine the required minimum separation distance.

According to FCC Part 1.1307, 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 General Population/ Uncontrolled Exposure			
Frequency Range (MHz)	Electric Field Strength(E)(V/m)	Magnetic Field Strength (H)(A/m)	Power Density (S)(mW/cm ²)
0.3-1.34	614	1.63	(100)*
1.34-30	824/f	2.19/f	(180/f ²)*
30-300	27.5	0.073	0.2
300-1500			f/1500
1500-100,000			1.0

MPE calculation formula

$$S = \frac{PG}{4\pi R^2}$$

P = output power (mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Separation distance between radiator and human body (cm)

5 ASSESSMENT RESULT

5.1 Output Power

Bluetooth					
Mode	GFSK	$\pi/4$ -DQPSK	8-DPSK	BLE(1Mbps)	BLE(2Mbps)
Conducted Power (dBm)	9.58	9.05	9.39	9.54	9.61
Antenna Gain (dBi)	3.95	3.95	3.95	3.95	3.95
EIRP (dBm)	13.53	13.00	13.34	13.49	13.56
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-601 and BL-EC22A0685-602 for more details.					

2.4GWIFI					
Mode	802.11b	802.11g	802.11n-HT20	802.11n-HT40	802.11ax-20 MHz(SU)
Conducted Power (dBm)	22.00	22.98	22.05	22.28	24.16
Antenna Gain (dBi)	3.95	3.95	3.95	3.95	3.95
EIRP (dBm)	25.95	26.93	26.00	26.23	28.11
Mode	802.11ax-40 MHz(SU)	802.11ax-20 MHz(RU26)	802.11ax-20 MHz(RU52)	802.11ax-20 MHz(RU106)	802.11ax-40 MHz(RU26)
Conducted Power (dBm)	23.64	24.27	24.53	24.31	24.8
Antenna Gain (dBi)	3.95	3.95	3.95	3.95	3.95
EIRP (dBm)	27.59	28.22	28.48	28.26	28.75
Mode	802.11ax-40 MHz(RU52)	802.11ax-40 MHz(RU106)	802.11ax-40 MHz(RU242)	/	/
Conducted Power (dBm)	25.15	24.77	24.45	/	/
Antenna Gain (dBi)	3.95	3.95	3.95	/	/
EIRP (dBm)	29.1	28.72	28.4	/	/
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-603 for more details.					

5GWIFI(U-NII-1: 5150-5250MHz)					
Mode	11a	11n (HT20)	11n (HT40)	11ac (VHT20)	11ac (VHT40)
Conducted Power (dBm)	17.09	16.92	16.09	13.96	14.04
Antenna Gain (dBi)	1.46	1.46	1.46	1.46	1.46
EIRP (dBm)	18.55	18.38	17.55	15.42	15.50
Mode	11ac (VHT80)	11ac (VHT160)	11ax (HE20) (SU)	11ax (HE40) (SU)	11ax (HE80) (SU)
Conducted Power (dBm)	14.14	14.19	13.11	13.03	13.14
Antenna Gain (dBi)	1.46	1.46	1.46	1.46	1.46
EIRP (dBm)	15.60	15.65	14.57	14.49	14.60

Mode	11ax (HE160) (SU)	11ax (HE20) (RU)	11ax (HE40) (RU)	11ax (HE80) (RU)	11ax (HE160) (RU)
Conducted Power (dBm)	13.06	13.79	13.56	13.09	13.15
Antenna Gain (dBi)	1.46	1.46	1.46	1.46	1.46
EIRP (dBm)	14.52	15.25	15.02	14.55	14.61
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-604 for more details.					

5GWIFI(U-NII-2A: 5250 MHz to 5350 MHz)						
Mode	11a	11n (HT20)	11n (HT40)	11ac (VHT20)	11ac (VHT40)	11ac (VHT80)
Conducted Power (dBm)	17.21	17.12	16.48	14.25	14.36	14.25
Antenna Gain (dBi)	1.52	1.52	1.52	1.52	1.52	1.52
EIRP (dBm)	18.73	18.64	18.00	15.77	15.88	15.77
Mode	11ax (HE20) (SU)	11ax (HE40) (SU)	11ax (HE80) (SU)	11ax (HE20) (RU)	11ax (HE40) (RU)	11ax (HE80) (RU)
Conducted Power (dBm)	13.24	13.14	13.31	14.14	13.88	13.93
Antenna Gain (dBi)	1.52	1.52	1.52	1.52	1.52	1.52
EIRP (dBm)	14.76	14.66	14.83	15.66	15.40	15.45
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-604 for more details.						

5GWIFI(U-NII-2C: 5470 MHz to 5725 MHz)					
Mode	11a	11n (HT20)	11n (HT40)	11ac (VHT20)	11ac (VHT40)
Conducted Power (dBm)	16.92	16.81	16.01	14.18	14.30
Antenna Gain (dBi)	1.29	1.29	1.29	1.29	1.29
EIRP (dBm)	18.21	18.10	17.30	15.47	15.59
Mode	11ac (VHT80)	11ac (VHT160)	11ax (HE20) (SU)	11ax (HE40) (SU)	11ax (HE80) (SU)
Conducted Power (dBm)	14.05	13.76	13.24	13.06	13.07
Antenna Gain (dBi)	1.29	1.29	1.29	1.29	1.29
EIRP (dBm)	15.34	15.05	14.53	14.35	14.36
Mode	11ax (HE160) (SU)	11ax (HE20) (RU)	11ax (HE40) (RU)	11ax (HE80) (RU)	11ax (HE160) (RU)
Conducted Power (dBm)	12.64	13.88	13.86	14.22	13.38
Antenna Gain (dBi)	1.29	1.29	1.29	1.29	1.29
EIRP (dBm)	13.93	15.17	15.15	15.51	14.67
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-604 for more details.					

5GWIFI(U-NII-3: 5725 MHz to 5850 MHz)						
Mode	11a	11n (HT20)	11n (HT40)	11ac (VHT20)	11ac (VHT40)	11ac (VHT80)
Conducted Power (dBm)	16.29	16.17	15.44	13.33	13.39	13.37
Antenna Gain (dBi)	1.48	1.48	1.48	1.48	1.48	1.48
EIRP (dBm)	17.77	17.65	16.92	14.81	14.87	14.85
Mode	11ax (HE20) (SU)	11ax (HE40) (SU)	11ax (HE80) (SU)	11ax (HE20) (RU)	11ax (HE40) (RU)	11ax (HE80) (RU)
Conducted Power (dBm)	12.34	12.25	12.46	12.00	11.59	12.08
Antenna Gain (dBi)	1.48	1.48	1.48	1.48	1.48	1.48
EIRP (dBm)	13.82	13.73	13.94	13.48	13.07	13.56
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-604 for more details.						

6GWIFI(U-NII-5: 5925 MHz to 6425 MHz)					
Mode	11ax (HE20) (SU)	11ax (HE40) (SU)	11ax (HE80) (SU)	11ax (HE160) (SU)	11ax(HE20) (RU)
Maximum EIRP (dBm)	10.84	13.68	14.77	14.95	1.81
Antenna Gain (dBi)	0.96	0.96	0.96	0.96	0.96
Mode	11ax(HE40) (RU)	11ax(HE80) (RU)	11ax(HE160) (RU)	/	/
Maximum EIRP (dBm)	2.1	2.14	2.57	/	/
Antenna Gain (dBi)	0.96	0.96	0.96	/	/
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-606 for more details.					

6GWIFI(U-NII-6: 6425 MHz to 6525 MHz)					
Mode	11ax (HE20) (SU)	11ax (HE40) (SU)	11ax (HE80) (SU)	11ax (HE160) (SU)	11ax(HE20) (RU)
Maximum EIRP (dBm)	10.59	13.66	14.35	14.33	1.8
Antenna Gain (dBi)	0.75	0.75	0.75	0.75	0.75
Mode	11ax(HE40) (RU)	11ax(HE80) (RU)	11ax(HE160) (RU)	/	/
Maximum EIRP (dBm)	2.11	2.23	2.22	/	/
Antenna Gain (dBi)	0.75	0.75	0.75	/	/
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-606 for more details.					

6GWIFI(U-NII-7: 6525 MHz to 6875 MHz)					
Mode	11ax (HE20) (SU)	11ax (HE40) (SU)	11ax (HE80) (SU)	11ax (HE160) (SU)	11ax(HE20) (RU)
Maximum EIRP (dBm)	10.95	13.73	16.29	16.42	1.79
Antenna Gain (dBi)	0.77	0.77	0.77	0.77	0.77
Mode	11ax(HE40) (RU)	11ax(HE80) (RU)	11ax(HE160) (RU)	/	/
Maximum EIRP (dBm)	1.98	2.37	2.86	/	/
Antenna Gain (dBi)	0.77	0.77	0.77	/	/
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-606 for more details.					

6GWIFI(U-NII-8: 6875 MHz to 7125 MHz)					
Mode	11ax (HE20) (SU)	11ax (HE40) (SU)	11ax (HE80) (SU)	11ax (HE160) (SU)	11ax(HE20) (RU)
Maximum EIRP (dBm)	10.67	13.47	16.41	16.53	1.68
Antenna Gain (dBi)	1.56	1.56	1.56	1.56	1.56
Mode	11ax(HE40) (RU)	11ax(HE80) (RU)	11ax(HE160) (RU)	/	/
Maximum EIRP (dBm)	2.08	2.03	2.05	/	/
Antenna Gain (dBi)	1.56	1.56	1.56	/	/
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-606 for more details.					

GSM		
Mode	GSM 850	GSM 1900
Conducted Power (dBm)	32.51	30.37
Antenna Gain (dBi)	-2.59	-1.09
EIRP/ ERP (dBm)	27.77	29.28
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-501 for more details.		

WCDMA			
Mode	Band 2	Band 4	Band 5
Conducted Power (dBm)	24.62	23.63	23.98
Antenna Gain (dBi)	-1.09	-2.57	-2.59
EIRP/ ERP (dBm)	23.53	21.06	19.24
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-501 for more details.			

LTE					
Mode	Band 2	Band 4	Band 5	Band 7	Band 12
Conducted Power (dBm)	24.14	23.70	24.07	24.74	24.01
Antenna Gain (dBi)	-1.09	-2.57	-2.59	2.35	-3.91
EIRP/ ERP (dBm)	23.05	21.13	19.33	27.09	17.95
Mode	Band 13	Band 14	Band 17	Band 25	Band 30
Conducted Power (dBm)	23.88	23.95	23.76	26.24	20.21
Antenna Gain (dBi)	-2.69	-2.69	-3.91	-1.09	3.58
EIRP/ ERP (dBm)	19.04	19.11	17.70	25.15	23.79
Mode	Band 66	Band 71	Band 38	Band 41	Band 48
Conducted Power (dBm)	23.65	23.59	25.07	26.44	14.34
Antenna Gain (dBi)	-2.57	-2.06	2.38	3.07	3.57
EIRP/ ERP (dBm)	21.08	19.38	27.45	29.51	17.91
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-501 for more details.					

NR					
Mode	Band 2	Band 5	Band 12	Band 25	Band 30
Conducted Power (dBm)	24.97	24.01	23.98	24.96	17.71
Antenna Gain (dBi)	-1.09	-2.59	-3.91	-1.09	3.58
EIRP/ ERP (dBm)	23.88	19.27	17.92	23.87	21.29
Mode	Band 66	Band 71	Band 38	Band 48	Band 41
Conducted Power (dBm)	24.10	23.92	25.42	18.50	25.50
Antenna Gain (dBi)	-2.57	-2.06	2.38	3.57	3.07
EIRP/ ERP (dBm)	21.53	19.71	27.80	22.07	28.57
Mode	Band 77	Band 78	DC_2A_n5A	DC_30A_n5A	DC_66A_n5A
Conducted Power (dBm)	25.88	25.86	23.16	23.17	23.35
Antenna Gain (dBi)	3.57	3.57	-2.59	-2.59	-2.59
EIRP/ ERP (dBm)	29.45	29.43	18.42	18.43	18.61
Mode	DC_48A_n5A	DC_2A_n66A	DC_5A_n66A	DC_12A_n66A	DC_30A_n66A
Conducted Power (dBm)	23.28	24.67	25.95	23.16	24.78
Antenna Gain (dBi)	-2.59	-2.57	-2.57	-2.57	-2.57
EIRP/ ERP (dBm)	18.54	22.10	23.38	20.59	22.21
Mode	DC_14A_n66A	DC_48A_n66A	DC_13A_n66A	DC_5A_n2A	DC_12A_n2A
Conducted Power (dBm)	23.14	23.16	23.24	22.69	22.55
Antenna Gain (dBi)	-2.57	-2.57	-2.57	-1.09	-1.09
EIRP/ ERP (dBm)	20.57	20.59	20.67	21.60	21.46
Mode	DC_30A_n2A	DC_66A_n2A	DC_14A_n2A	DC_13A_n2A	DC_2A_n30A
Conducted Power (dBm)	24.83	24.59	24.03	23.96	16.98
Antenna Gain (dBi)	-1.09	-1.09	-1.09	-1.09	3.58

EIRP/ ERP (dBm)	23.74	23.50	22.94	22.87	20.56
Mode	DC_5A_n30A	DC_12A_n30A	DC_14A_n30A	DC_66A_n30A	DC_66A_n71A
Conducted Power (dBm)	18.26	17.36	17.47	17.06	23.43
Antenna Gain (dBi)	3.58	3.58	3.58	3.58	-2.06
EIRP/ ERP (dBm)	21.84	20.94	21.05	20.64	19.22
Mode	DC_2A_n71A	DC_12A_n25A	DC_66A_n25A	DC_48A_n25A	DC_2A_n48A
Conducted Power (dBm)	23.46	22.61	24.76	22.97	17.28
Antenna Gain (dBi)	-2.06	-1.09	-1.09	-1.09	3.57
EIRP/ ERP (dBm)	19.25	21.52	23.67	21.88	20.85
Mode	DC_66A_n48A	DC_2A_n41A	DC_2A_n77A	DC_66A_n77A	DC_12A_n77A
Conducted Power (dBm)	17.27	24.2	25.47	25.46	24.76
Antenna Gain (dBi)	3.57	3.07	3.57	3.57	3.57
EIRP (dBm)	20.84	27.27	29.04	29.03	28.33
Mode	DC_13A_n77A	DC_14A_n77A	DC_5A_n77A	/	/
Conducted Power (dBm)	24.8	24.79	24.68	/	/
Antenna Gain (dBi)	3.57	3.57	3.57	/	/
EIRP (dBm)	28.37	28.36	28.25	/	/
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC22A0685-501 for more details.					

5.2 Tune-up power

Mode		Conducted Power Range (dBm)
GSM	GSM850	30.50-33.50
	GSM1900	28.00-31.00
WCDMA	Band 2	22.50-25.50
	Band 4	22.00-25.00
	Band 5	22.50-25.50
LTE	Band 2	22.50-25.50
	Band 4	22.00-25.00
	Band 5	22.00-25.00
	Band 7	22.50-25.50
	Band 12	22.00-25.00
	Band 13	22.00-25.00
	Band 14	22.00-25.00
	Band 17	22.00-25.00
	Band 25	24.00-27.00
	Band 30	18.00-21.00
	Band 66	22.00-25.00
	Band 71	21.50-24.50
	Band 38	23.00-26.00

Mode		Conducted Power Range (dBm)
	Band 41	24.50-27.50
	Band 48	11.0-15.00
NR	Band 2	22.50-25.50
	Band 5	22.50-25.50
	Band 12	22.00-25.00
	Band 25	22.50-25.50
	Band 30	15.50-18.50
	Band 66	22.50-25.50
	Band 71	21.50-24.50
	Band 38	23.00-26.00
	Band 41	24.00-27.00
	Band 48	16.00-19.00
	Band 77	23.00-26.00
	Band 78	23.00-26.00
2.4GWIFI	802.11b/g/n	20.50-23.50
	802.11ax	22.50-25.50
5GWIFI (U-NII-1: 5150-5250MHz)	802.11a/n	15.50-17.50
	802.11ac/ax	12.00-15.00
5GWIFI (U-NII-2A: 5250-5350 MHz)	802.11a/n	15.00-18.00
	802.11ac/ax	12.50-15.50
5GWIFI (U-NII-2C: 5470-5725 MHz)	802.11a/n	15.50-17.50
	802.11ac/ax	12.00-15.00
5GWIFI (U-NII-3: 5725-5850 MHz)	802.11a/n	14.50-17.50
	802.11ac/ax	11.00-14.00
6GWIFI (U-NII-5: 5925-6425 MHz)	11ax (HE20) (SU)	8.00-11.00
	11ax (HE40/80/160) (SU)	11.50-14.50
	11ax (RU)	0.5-2.50
6GWIFI (U-NII-6: 6425-6525 MHz)	11ax (HE20) (SU)	8.00-11.00
	11ax (HE40/80/160) (SU)	11.50-14.50
	11ax (RU)	0.25-2.25
6GWIFI (U-NII-7: 6525-6875 MHz)	11ax (HE20) (SU)	8.20-11.20
	11ax(HE40/80/160) (SU)	12.50-15.50
	11ax (RU)	0.25-2.25
6GWIFI (U-NII-8: 6875-7125 MHz)	11ax (HE20) (SU)	7.50-10.50
	11ax (HE40/80/160) (SU)	12.50-15.50
	11ax (RU)	-1.00-2.00
Bluetooth	Bluetooth	11.50-14.50

5.3 RF Exposure Evaluation Result

Evolution mode		Maximum Conducted power Tune up (dBm)	Directional Gain (dBi)	Distance (cm)	Maximum EIRP/ERP power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	P/Plimit	Verdict
GSM	GSM850	33.5	-2.59	20	751.62	0.150	0.549	0.2732	Pass
	GSM1900	31.0	-1.09	20	979.49	0.195	1.000	0.1950	Pass
WCDMA	Band 2	25.5	-1.09	20	276.06	0.055	1.000	0.0550	Pass
	Band 4	25.0	-2.57	20	174.98	0.035	1.000	0.0350	Pass
	Band 5	25.5	-2.59	20	119.12	0.024	0.549	0.0437	Pass
LTE	Band 2	25.5	-1.09	20	276.06	0.055	1.000	0.0550	Pass
	Band 4	25.0	-2.57	20	174.98	0.035	1.000	0.0350	Pass
	Band 5	25.0	-2.59	20	106.17	0.021	0.549	0.0383	Pass
	Band 7	25.5	2.35	20	609.54	0.121	1.000	0.1210	Pass
	Band 12	25.0	-3.91	20	78.34	0.016	0.466	0.0343	Pass
	Band 13	25.0	-2.69	20	103.75	0.021	0.518	0.0405	Pass
	Band 14	25.0	-2.69	20	103.75	0.021	0.525	0.0400	Pass
	Band 17	25.0	-3.91	20	78.34	0.016	0.469	0.0341	Pass
	Band 25	27.0	-1.09	20	389.94	0.078	1.000	0.0780	Pass
	Band 30	21.0	3.58	20	287.08	0.057	1.000	0.0570	Pass
	Band 66	25.0	-2.57	20	174.98	0.035	1.000	0.0350	Pass
	Band 71	24.5	-2.06	20	106.91	0.021	0.442	0.0475	Pass
	Band 38	26.0	2.38	20	688.65	0.137	1.000	0.1370	Pass
	Band 41	27.5	3.07	20	1140.25	0.227	1.000	0.2270	Pass
	Band 48	15.0	3.57	20	71.94	0.014	1.000	0.0140	Pass
NR	Band 2	25.5	-1.09	20	276.06	0.055	1.000	0.0550	Pass
	Band 5	25.5	-2.59	20	195.43	0.039	0.549	0.0710	Pass
	Band 12	25.0	-3.91	20	128.53	0.026	0.466	0.0558	Pass
	Band 25	25.5	-1.09	20	276.06	0.055	1.000	0.0550	Pass
	Band 30	18.5	3.58	20	161.44	0.032	1.000	0.0320	Pass
	Band 66	25.5	-2.57	20	196.34	0.039	1.000	0.0390	Pass
	Band 71	24.5	-2.06	20	175.39	0.035	0.442	0.0792	Pass
	Band 38	26.0	2.38	20	688.65	0.137	1.000	0.1370	Pass
	Band 41	27.0	3.07	20	1016.25	0.202	1.000	0.2020	Pass
	Band 48	19.0	3.57	20	180.72	0.036	1.000	0.0360	Pass
	Band 77	26.0	3.57	20	905.73	0.180	1.000	0.1800	Pass
	Band 78	26.0	3.57	20	905.73	0.180	1.000	0.1800	Pass
2.4GWIFI	802.11b/g/n	23.5	3.95	20	555.90	0.111	1.000	0.1110	Pass
	802.11ax	25.5	3.95	20	881.05	0.175	1.000	0.1750	Pass
5GWIFI(U-NII-1: 5150-5250MHz)	802.11a/n	17.5	1.46	20	78.70	0.016	1.000	0.0160	Pass
	802.11ac/ax	15.0	1.46	20	44.26	0.009	1.000	0.0090	Pass

Evolution mode		Maximum Conducted power Tune up (dBm)	Directional Gain (dBi)	Distance (cm)	Maximum EIRP/ERP power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	P/Plimit	Verdict
5GWIFI (U-NII-2A: 5250-5350 MHz)	802.11a/n	18	1.52	20	89.54	0.018	1.000	0.0180	Pass
	802.11ac/ax	15.5	1.52	20	50.35	0.010	1.000	0.0100	Pass
5GWIFI (U-NII- 2C: 5470-5725 MHz)	802.11a/n	17.5	1.29	20	75.68	0.015	1.000	0.0150	Pass
	802.11ac/ax	15	1.29	20	42.56	0.009	1.000	0.0090	Pass
5GWIFI (U-NII-3: 5725-5850 MHz)	802.11a/n	17.5	1.48	20	79.07	0.016	1.000	0.0160	Pass
	802.11ac/ax	14	1.48	20	35.32	0.007	1.000	0.0070	Pass
6GWIFI(U-NII-5: 5925-6425 MHz)	11ax (HE20) (SU)	11	0.96	20	15.70	0.003	1.000	0.0030	Pass
	11ax (HE40/80/16 0) (SU)	14.5	0.96	20	35.16	0.007	1.000	0.0070	Pass
	11ax (RU)	2.5	0.96	20	2.22	0.000	1.000	0.0000	Pass
6GWIFI(U-NII-6: 6425-6525 MHz)	11ax (HE20) (SU)	11	0.75	20	14.96	0.003	1.000	0.0030	Pass
	11ax (HE40/80/16 0) (SU)	14.5	0.75	20	33.50	0.007	1.000	0.0070	Pass
	11ax (RU)	2.25	0.75	20	2.00	0.000	1.000	0.0000	Pass
6GWIFI(U-NII-7: 6525-6875 MHz)	11ax (HE20) (SU)	11.2	0.77	20	15.74	0.003	1.000	0.0030	Pass
	11ax (HE40/80/16 0) (SU)	15.5	0.77	20	42.36	0.008	1.000	0.0080	Pass
	11ax (RU)	2.25	0.77	20	2.00	0.000	1.000	0.0000	Pass
6GWIFI(U-NII-8: 6875-7125 MHz)	11ax (HE20) (SU)	10.5	1.56	20	16.07	0.003	1.000	0.0030	Pass
	11ax (HE40/80/16 0) (SU)	15.5	1.56	20	50.82	0.010	1.000	0.0100	Pass
	11ax (RU)	2	1.56	20	2.27	0.001	1.000	0.0010	Pass
Bluetooth	Bluetooth	14.5	3.95	20	69.98	0.014	1.000	0.0140	Pass

5.4 Collocated Power Calculation

Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of GSM850 + WLAN + Bluetooth	Verdict
GSM850	824MHz ~ 849MHz	0.2732	0.4802	Pass
5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.1750		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of WCDMA Band2+ WLAN + Bluetooth	Verdict
WCDMA Band2	1850 MHz ~ 191 MHz	0.0550	0.2620	Pass
5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.1750		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of LTE Band41 + WLAN + Bluetooth	Verdict
LTE Band41	2496MHz ~ 2690MHz	0.2270	0.4340	Pass
5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.1750		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of NR Band77 + WLAN + Bluetooth	Verdict
NR Band41	2496MHz ~ 2690MHz	0.2020	0.4090	Pass
5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.1750		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of DC_2A_n77A + WLAN + Bluetooth	Verdict
DC_2A_n77A	1850 MHz ~ 1910 MHz	$(0.0550+0.2072)=$ 0.2570	0.4640	Pass
5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.1750		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of GSM850 + WLAN + Bluetooth	Verdict
GSM850	824MHz ~ 849MHz	0.2732	0.4722	Pass
6G WIFI	6875MHz-7125 MHz	0.010		

Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.1750		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of WCDMA Band2+ WLAN + Bluetooth	Verdict
WCDMA Band2	1850 MHz ~ 1910 MHz	0.0550	0.2540	Pass
6G WIFI	6875MHz-7125 MHz	0.0100		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.1750		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of LTE Band41 + WLAN + Bluetooth	Verdict
LTE Band41	2496MHz ~ 2690MHz	0.2270	0.4260	Pass
6G WIFI	6875MHz-7125 MHz	0.0100		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.1750		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of NR Band77 + WLAN + Bluetooth	Verdict
NR Band41	2496MHz ~ 2690MHz	0.2020	0.4010	Pass
6G WIFI	6875MHz-7125 MHz	0.0100		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.1750		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of DC_2A_n77A + WLAN + Bluetooth	Verdict
DC_2A_n77A	1850 MHz ~ 1910 MHz	(0.0550+0.2072)= 0.2570	0.4560	Pass
6G WIFI	6875MHz-7125 MHz	0.0100		
Bluetooth	2400MMHz ~ 2483.5MHz	0.014		
2.4G WIFI	2400MMHz ~ 2483.5MHz	0.175		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of GSM850 + WLAN + Bluetooth	Verdict
GSM850	824MHz ~ 849MHz	0.2732	0.3152	Pass
5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
6G WIFI	6875MHz-7125 MHz	0.0100		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of WCDMA Band2+ WLAN + Bluetooth	Verdict
WCDMA Band2	1850 MHz ~ 1910 MHz	0.0550	0.097	Pass

5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
6G WIFI	6875MHz-7125 MHz	0.0100		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power / Limit})$ of LTE Band41 + WLAN + Bluetooth	Verdict
LTE Band41	2496MHz ~ 2690MHz	0.2270	0.2690	Pass
5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
6G WIFI	6875MHz-7125 MHz	0.010		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power / Limit})$ of NR Band77 + WLAN + Bluetooth	Verdict
NR Band41	2496MHz ~ 2690MHz	0.2020	0.2440	Pass
5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
6G WIFI	6875MHz-7125 MHz	0.0100		
Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power / Limit})$ of DC_2A_n77A + WLAN + Bluetooth	Verdict
DC_2A_n77A	1850 MHz ~ 1910 MHz 3300Hz ~ 4200MHz	(0.0550+0.2072)= 0.2570	0.2990	Pass
5G WIFI	5250 MHz ~ 5350MHz	0.0180		
Bluetooth	2400MMHz ~ 2483.5MHz	0.0140		
6G WIFI	6875MHz-7125 MHz	0.0100		

Note:

1. $\Sigma(\text{Power / Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for WWAN+ BLUETOOTH+WLAN 2.4GHz+WLAN 5GHz, WWAN+ BLUETOOTH+WLAN 2.4GHz+WLAN 6GHz, WWAN+ BLUETOOTH+WLAN 5GHz+WLAN 6GHz.
2. The 2.4GHz/5GHz/850MHz, 2.4GHz/5GHz/1.9GHz, 2.4GHz/5GHz/2.5GHz, 2.4GHz/5GHz/3.5GHz/1.9GHz, 2.4GHz/6GHz/850MHz, 2.4GHz/6GHz/1.9GHz, 2.4GHz/6GHz/2.5GHz, 2.4GHz/6GHz/3.5GHz/1.9GHz, 2.4GHz/5GHz/6GHz/850MHz, 2.4GHz/5GHz/6GHz/1.9GHz, 2.4GHz/5GHz/6GHz/2.5GHz, 2.4GHz/5GHz/6GHz/3.5GHz/1.9GHz can transmit simultaneously, the formula of calculated the Power is $CP1 / LP1 + CP2 / LP2 + \dots \text{etc.} < 1$
 CP = Calculation power
 LP = Limit of power
3. The 5.2GHz WIFI, 5.8GHz WIFI and can't transmit simultaneously at same time.
4. The worst-case situation is 0.4802, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D01 Power limit.

5. The DUT work frequency range used is 824 MHz ~ 849 MHz, 1850 MHz ~ 1915 MHz, 1710 MHz ~ 1780 MHz, 2500 MHz ~ 2570 MHz, 699 MHz ~ 716 MHz, 777 MHz ~ 787 MHz, 788 MHz ~ 798 MHz, 704 MHz ~ 716 MHz, 2305 MHz ~ 2315 MHz, 663 MHz ~ 698 MHz, 2496 MHz ~ 2690 MHz, 3300 MHz ~ 4200 MHz, 2400 MHz ~ 2483.5 MHz, 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz, 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, and 6875 MHz ~ 7125 MHz, the result close to the limit by the above formula, so we select worst case power to calculate the exclusion power threshold.
6. More power list please refer to RF (BL-EC22A0685-501/601/ 602/603/604/606) test report.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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--END OF REPORT--