TEST REPORT

Applicant Name :	Inrico Technologies Co., Ltd
Address :	3/F, Building No.118, High Tech Industrial Park, 72 Guowei Road, Luohu District, Shenzhen,China
Report Number:	SZGMA210719-29778E-RF-00CA1
FCC ID:	2AIV6-2-TM-9

Test Standard (s)

FCC PART 27; FCC PART 22H; FCC PART 24E

Sample Description

Product Type:	PoC mobile radio
Model No.:	TM-9
Trade Mark:	Inrico
Date Received:	2021/07/19
Date of Test:	2021/09/09
Report Date:	2021/12/16

Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Fan Yang
EMC Engineer

Approved By:

Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★ ".
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 2:1850-1910 MHz(TX), 1930-1990 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) LTE Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX) LTE Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(RX) LTE Band 12: 699-716MHz(TX); 729-746MHz(RX) LTE Band 17: 704-716MHz(TX); 734-746MHz(RX) LTE B38: 2570-2620 MHz(TX&RX) LTE Band 66: 1710-1780MHz(TX); 2110-2200MHz(RX)
Modulation Technique	GMSK, 8PSK, BPSK, QPSK, 16QAM
Voltage Range	DC 12V or DC 24V From Car Battery
Sample number	SZGMA210719-29778E-RFA1-S1 (RE) SZGMA210719-29778E-RFA1-S2 (RF Conducted Test) (Assigned by ATC)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part24-Subpart E, and Subpart 27 of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
Part 24 Subpart E - Personal Communication Services
Part 27 - Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		±5%
RF output power, conducted		±0.73dB
Unwanted Emission, conducted		±1.6dB
RF Frequency		±0.082*10^{-7}
Emissions, Radiated	30MHz - 1GHz	±4.28dB
	1GHz - 18GHz	±4.98dB
	18GHz - 26.5GHz	±5.06dB
Temperature		±1℃
Humidity		±6%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358,the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The final qualification test was performed with the EUT operating at normal mode.

The test items were performed with the EUT operating at testing mode. Test was performed with channels as below table:

Frequency band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
GPRS/EDGE 850	0.25	824.2	836.6	848.8
GPRS/EDGE 1900	0.25	1850.2	1880	1909.8
WCDMA Band 2	4.2	1852.4	1880	1907.6
WCDMA Band 5	4.2	826.4	836.6	846.6
LTE Band 2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855	1880	1905
	15	1857.5	1880	1902.5
	20	1860	1880	1900
LTE Band 4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715	1732.5	1750
	15	1717.5	1732.5	1747.5
	20	1720	1732.5	1745
LTE Band 5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829	836.5	844
LTE Band 7	5	2502.5	2535	2567.5
	10	2505	2535	2565
	15	2507.5	2535	2562.5
	20	2510	2535	2560
LTE Band 12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704	707.5	711

Frequency band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
LTE Band 17	5	706.5	710	713.5
	10	709	710	711
LTE Band 38	5	2572.5	2595	2617.5
	10	2575	2595	2615
	15	2577.5	2595	2612.5
	20	2580	2595	2610
LTE B66	1.4	1710.7	1745	1779.3
	3	1711.5	1745	1778.5
	5	1712.5	1745	1777.5
	10	1715	1745	1775
	15	1717.5	1745	1772.5
	20	1720	1745	1770

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

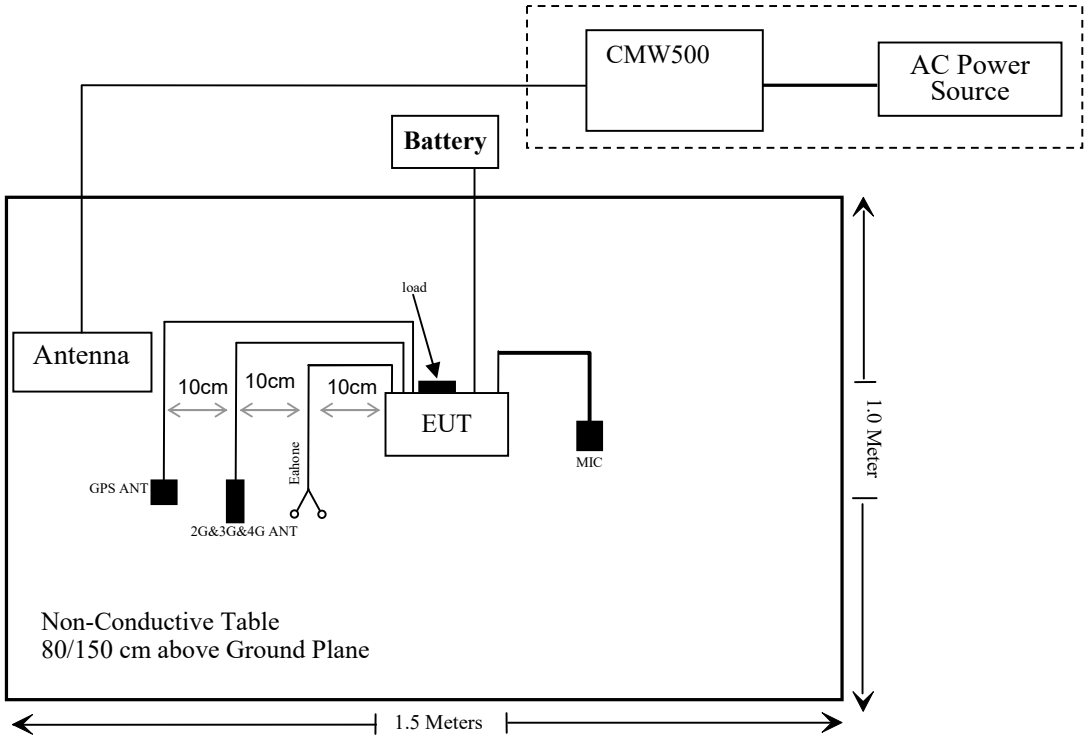
Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	154606
CHUANXI	Battery	6-QW-120	45H885718
Unknown	Load	Unknown	Unknown
Unknown	Earphone	Unknown	Unknown
Kingston	sd card	SDG3	Unknown

Support Cable Description

Cable Description	Length (m)	From / Port	To
Unshielded Un-detachable AC cable	1.2	AC Power	CMW500
Un-shielding Detachable DC Cable	2.7	Battery	EUT
Un-shielding Detachable MIC Cable	0.6	EUT	MIC
Un-shielding Detachable Earphone Cable	1.0	EUT	Earphone
Un-shielding Detachable ANT Cable	1.2	EUT	2G&3G&4G ANT
Un-shielding Detachable ANT Cable	2.5	EUT	GPS ANT

Block Diagram of Test Setup

For Spurious Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 , §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliant
§2.1046; § 22.913 (a); § 24.232 (c); §27.50 (a) (b) (c) (d) (h);	RF Output Power	Compliant**
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53	Occupied Bandwidth	Compliant**
§ 2.1051; § 22.917 (a); § 24.238 (a); §27.53;	Spurious Emissions at Antenna Terminal	Compliant**
§ 2.1053; § 22.917 (a); § 24.238 (a); §27.53	Field Strength of Spurious Radiation	Compliant
§ 22.917 (a); § 24.238 (a); §27.53 (c) (h) (m)	Band Edge	Compliant**
§ 2.1055; § 22.355; § 24.235; §27.54;	Frequency stability	Compliant**

Compliant **: EUT is electrical identical with the product PoC mobile radio (model: TM-9, FCC ID: 2AIV6-TM9) under Inrico Technologies Co., Ltd. The difference between those two products are that the current device is enable the BT&Wi-Fi function by software and removed the network port, and the current device had been tested and verified the RF parameters consistently with the original device, test data of these items please refer to the test report: RDG200407007-00B.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde& Schwarz	Test Receiver	ESR	101817	2020/12/24	2021/12/23
Rohde&Schwarz	Spectrum Analyzer	FSV40	101495	2020/12/24	2021/12/23
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24
A.H. Systems, inc.	Preamplifier	PAM-0118P	531	2020/11/09	2021/11/08
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2020/11/28	2021/11/27
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-5m	No.3	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-5m	No.4	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.5	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.6	2020/12/25	2021/12/24
CD	High Pass Filter	HPM-1.2/18G-60	110	2020/12/25	2021/12/24
Unknown	Band Reject Filter	MSF824-862MS-1147	201706003	2020/12/25	2021/12/24
Unknown	Band Reject Filter	MSF1850-1910MS-1148	201706003	2020/12/25	2021/12/24
Unknown	Band Reject Filter	MSF1710-1785MS-1150	201706003	2020/12/25	2021/12/24
Unknown	Band Reject Filter	MSF2495-2570MS-1152	201706003	2020/12/25	2021/12/24
Unknown	Band Reject Filter	MSF700-800MS-1153	201706003	2020/12/25	2021/12/24
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2020/01/05	2023/01/04
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/05	2023/01/04
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-655	2020/01/05	2023/01/04
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
PASTERNACK	Horn Antenna	PE9852/2F-20	1120	2020/01/05	2023/01/04
PASTERNACK	Horn Antenn	PE9852/2F-20	1120	2020/01/05	2023/01/04

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Unknown	RF Coaxial Cable	N-1m	No.7	2020/12/25	2021/12/24
Anritsu	Signal Generator	68369B	004114	2021/7/31	2022/7/30

* Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

§1.1307 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to §1.1307 and § 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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

Result

Calculated Formulary:

Predication of MPE limit at a given distance

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

S = power density (in appropriate units, e.g. mW/cm^2)
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:

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

For worst:

Mode	Frequency (MHz)	Antenna Gain		Tune up conducted power		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
BDR/EDR	2402-2480	1.5	1.41	6.0	3.98	20	0.001	1.0
BLE	2402-2480	1.5	1.41	6.0	3.98	20	0.001	1.0
2.4G Wi-Fi	2412-2472	1.5	1.41	11.5	14.13	20	0.004	1.0
GPRS/EDGE 850	824-849	0.5	1.12	32.1	1621.81	20	0.362	0.55
GPRS/EDGE 1900	1850-1910	0.5	1.12	29.5	891.25	20	0.199	1.0
WCDNA B2	1850-1910	0.5	1.12	23	199.53	20	0.045	1.0
WCDNA B5	824-849	0.5	1.12	22.5	177.83	20	0.040	0.55
LTE B2	1850-1910	0.5	1.12	23	199.53	20	0.045	1.0
LTE B4	1710-1755	0.5	1.12	22.5	177.83	20	0.040	1.0
LTE B5	824-849	0.5	1.12	23	199.53	20	0.045	0.55
LTE B7	2500-2570	0.5	1.12	23	199.53	20	0.045	1.0
LTE B12	699-716	0.5	1.12	23	199.53	20	0.045	0.47
LTE B17	704-716	0.5	1.12	23	199.53	20	0.045	0.47
LTE B38	2570-2620	0.5	1.12	23	199.53	20	0.045	1.0
LTE B66	1710-1780	0.5	1.12	22.5	177.83	20	0.040	1.0

Note: 1. The tune up conducted power was declared by the applicant.
2. The BT or Wi-Fi can transmit at the same time with the WWAN.

Simultaneous transmitting consideration (worst case):

The ratio=$MPE_{2.4G\ Wi\text{-}Fi}$/limit+$MPE_{GPRS/EDGE850}$/limit=0.004/1+0.362/0.55=0.662＜1.0, so simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

FCC § 2.1053; § 22.917 (a);§ 24.238 (a); §27.53- SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917(a)& § 24.238(a) &§ 27.53.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Test Data

Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-09-09.

EUT operation mode: Transmitting

The worst case is as below:

Frequency (MHz)	Receiver Reading (dBm)	Turntable Angle Degree	Rx Antenna Height (m)	Rx Antenna Polar (H/V)	Substituted Factor (dB/m)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
GSM850, Low Channel								
Test frequency range: 30MHz-10GHz								
Low Channel								
129.47	-41.61	350	2.1	H	-6.04	-47.65	-13	34.65
129.47	-42.70	216	1.5	V	-3.53	-46.23	-13	33.23
1648.4	-48.66	147	2.0	H	-2.32	-50.98	-13	37.98
1648.4	-47.29	222	1.9	V	-2.29	-49.58	-13	36.58
Middle Channel								
129.47	-40.27	55	1.4	H	-6.04	-46.31	-13	33.31
129.47	-42.12	304	1.1	V	-3.53	-45.65	-13	32.65
1673.2	-47.84	47	1.6	H	-2.34	-50.18	-13	37.18
1673.2	-46.77	312	1.0	V	-2.31	-49.08	-13	36.08
High Channel								
129.47	-40.10	167	2.2	H	-6.04	-46.14	-13	33.14
129.47	-42.49	35	1.4	V	-3.53	-46.02	-13	33.02
1697.6	-48.26	327	1.1	H	-2.38	-50.64	-13	37.64
1697.6	-46.90	253	1.3	V	-2.34	-49.24	-13	36.24
PCS1900								
Test frequency range: 30MHz-20GHz								
Low Channel								
129.47	-43.51	83	1.3	H	-6.04	-49.55	-13	36.55
129.47	-44.79	125	2.0	V	-3.53	-48.32	-13	35.32
3700.4	-51.98	163	1.1	H	4.72	-47.26	-13	34.26
3700.4	-50.66	227	2.2	V	4.61	-46.05	-13	33.05
Middle Channel								
129.47	-43.13	140	1.3	H	-6.04	-49.17	-13	36.17
129.47	-44.73	35	1.4	V	-3.53	-48.26	-13	35.26
3760	-50.01	111	1.9	H	4.94	-45.07	-13	32.07
3760	-47.99	76	2.0	V	4.85	-43.14	-13	30.14
High Channel								
129.47	-43.07	358	2.0	H	-6.04	-49.11	-13	36.11
129.47	-44.50	327	1.7	V	-3.53	-48.03	-13	35.03
3819.6	-50.51	256	1.5	H	5.25	-45.26	-13	32.26
3819.6	-49.12	79	1.4	V	5.08	-44.04	-13	31.04

Frequency (MHz)	Receiver Reading (dBm)	Turntable Angle Degree	Rx Antenna Height (m)	Rx Antenna Polar (H/V)	Substituted Factor (dB/m)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
WCDMA BAND 2								
Test frequency range: 30MHz-20GHz								
Low Channel								
129.47	-43.21	185	1.9	H	-6.04	-49.25	-13	36.25
129.47	-44.73	33	1.2	V	-3.53	-48.26	-13	35.26
3704.8	-50.49	309	1.4	H	4.75	-45.74	-13	32.74
3704.8	-48.68	275	1.0	V	4.62	-44.06	-13	31.06
Middle Channel								
129.47	-43.32	175	2.0	H	-6.04	-49.36	-13	36.36
129.47	-44.75	34	1.0	V	-3.53	-48.28	-13	35.28
3760	-50.68	16	1.5	H	4.94	-45.74	-13	32.74
3760	-49.39	19	1.8	V	4.85	-44.54	-13	31.54
High Channel								
129.47	-43.47	219	1.5	H	-6.04	-49.51	-13	36.51
129.47	-44.64	104	2.0	V	-3.53	-48.17	-13	35.17
3815.2	-50.48	59	1.4	H	5.22	-45.26	-13	32.26
3815.2	-49.10	128	1.1	V	5.05	-44.05	-13	31.05
WCDMA BAND5								
Test frequency range: 30MHz-10GHz								
Low Channel								
129.47	-48.58	292	1.5	H	-6.04	-54.62	-13	41.62
129.47	-49.98	161	1.8	V	-3.53	-53.51	-13	40.51
1652.8	-31.20	100	1.8	H	-2.32	-33.52	-13	20.52
1652.8	-30.99	60	1.9	V	-2.29	-33.28	-13	20.28
Middle Channel								
129.47	-47.10	213	2.1	H	-6.04	-53.14	-13	40.14
129.47	-49.68	116	2.2	V	-3.53	-53.21	-13	40.21
1673.2	-30.83	297	1.8	H	-2.34	-33.17	-13	20.17
1673.2	-29.93	114	2.0	V	-2.31	-32.24	-13	19.24
High Channel								
129.47	-48.12	2	1.3	H	-6.04	-54.16	-13	41.16
129.47	-49.58	83	1.6	V	-3.53	-53.11	-13	40.11
1693.2	-30.67	281	2.2	H	-2.38	-33.05	-13	20.05
1693.2	-30.53	220	1.5	V	-2.34	-32.87	-13	19.87

Frequency (MHz)	Receiver Reading (dBm)	Turntable Angle Degree	Rx Antenna Height (m)	Rx Antenna Polar (H/V)	Substituted Factor (dB/m)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
LTE BAND2								
Test frequency range: 30MHz-20GHz								
1.4MHz, Low Channel								
129.47	-43.50	325	1.3	H	-6.04	-49.54	-13	36.54
129.47	-44.70	72	2.0	V	-3.53	-48.23	-13	35.23
3701.4	-42.86	191	1.5	H	4.72	-38.14	-13	25.14
3701.4	-41.26	38	1.3	V	4.61	-36.65	-13	23.65
1.4MHz,Middle Channel								
129.47	-43.68	313	1.2	H	-6.04	-49.72	-13	36.72
129.47	-44.63	131	1.4	V	-3.53	-48.16	-13	35.16
3760	-43.00	210	2.0	H	4.94	-38.06	-13	25.06
3760	-41.02	241	2.0	V	4.85	-36.17	-13	23.17
1.4MHz,High Channel								
129.47	-42.94	34	1.9	H	-6.04	-48.98	-13	35.98
129.47	-44.56	162	2.1	V	-3.53	-48.09	-13	35.09
3818.6	-43.57	89	1.4	H	5.25	-38.32	-13	25.32
3818.6	-38.24	151	1.3	V	5.08	-33.16	-13	20.16
LTE BAND 4								
Test frequency range: 30MHz-20GHz								
1.4MHz, Low Channel								
129.47	-43.54	83	2.1	H	-6.04	-49.58	-13	36.58
129.47	-44.73	39	2.0	V	-3.53	-48.26	-13	35.26
3421.4	-45.86	165	1.3	H	2.72	-43.14	-13	30.14
3421.4	-45.67	118	2.1	V	2.59	-43.08	-13	30.08
1.4MHz,Middle Channel								
129.47	-43.81	232	1.9	H	-6.04	-49.85	-13	36.85
129.47	-44.63	242	1.3	V	-3.53	-48.16	-13	35.16
3465	-46.27	98	1.9	H	3.09	-43.18	-13	30.18
3465	-44.98	317	1.1	V	2.97	-42.01	-13	29.01
1.4MHz,High Channel								
129.47	-43.51	8	2.1	H	-6.04	-49.55	-13	36.55
129.47	-44.64	18	2.0	V	-3.53	-48.17	-13	35.17
3508.6	-46.70	28	2.0	H	3.44	-43.26	-13	30.26
3508.6	-45.72	279	1.8	V	3.31	-42.41	-13	29.41

Frequency (MHz)	Receiver Reading (dBm)	Turntable Angle Degree	Rx Antenna Height (m)	Rx Antenna Polar (H/V)	Substituted Factor (dB/m)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
LTE BAND 5								
Test frequency range: 30MHz-10GHz								
1.4MHz, Low Channel								
129.47	-42.61	263	2.1	H	-6.04	-48.65	-13	35.65
129.47	-42.70	192	1.0	V	-3.53	-46.23	-13	33.23
1649.4	-31.27	203	1.4	H	-2.79	-34.06	-13	21.06
1649.4	-30.68	160	2.1	V	-2.73	-33.41	-13	20.41
1.4MHz,Middle Channel								
129.47	-43.51	291	1.6	H	-6.04	-49.55	-13	36.55
129.47	-44.59	161	1.3	V	-3.53	-48.12	-13	35.12
1673	-31.44	242	1.1	H	-2.74	-34.18	-13	21.18
1673	-30.90	117	1.1	V	-2.69	-33.59	-13	20.59
1.4MHz,High Channel								
129.47	-43.73	306	1.8	H	-6.04	-49.77	-13	36.77
129.47	-44.53	290	1.4	V	-3.53	-48.06	-13	35.06
1696.6	-30.31	171	2.1	H	-2.7	-33.01	-13	20.01
1696.6	-29.61	122	1.5	V	-2.65	-32.26	-13	19.26
LTE BAND 7								
Test frequency range: 30MHz-26.5GHz								
5MHz, Low Channel								
129.47	-49.18	241	1.5	H	-6.04	-55.22	-25	30.22
129.47	-51.61	86	1.7	V	-3.53	-55.14	-25	30.14
5005	-53.95	12	2.0	H	8.82	-45.13	-25	20.13
5005	-54.85	142	1.7	V	8.53	-46.32	-25	21.32
5MHz, Middle Channel								
129.47	-55.24	145	1.1	H	-6.04	-61.28	-25	36.28
129.47	-57.21	191	1.3	V	-3.53	-60.74	-25	35.74
5070	-54.34	184	1.9	H	9.18	-45.16	-25	20.16
5070	-53.54	181	1.7	V	8.56	-44.98	-25	19.98
5MHz, High Channel								
129.47	-55.81	329	1.4	H	-6.04	-61.85	-25	36.85
129.47	-57.09	87	2.0	V	-3.53	-60.62	-25	35.62
5135	-54.73	37	1.1	H	9.47	-45.26	-25	20.26
5135	-53.84	51	1.1	V	8.65	-45.19	-25	20.19

Frequency (MHz)	Receiver Reading (dBm)	Turntable Angle Degree	Rx Antenna Height (m)	Rx Antenna Polar (H/V)	Substituted Factor (dB/m)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
LTE BAND 12								
Test frequency range: 30MHz-10GHz								
1.4MHz, Low Channel								
129.47	-47.11	356	1.9	H	-6.04	-53.15	-13	40.15
129.47	-49.56	285	1.3	V	-3.53	-53.09	-13	40.09
1399.4	-32.74	50	1.5	H	-0.62	-33.36	-13	20.36
1399.4	-32.78	235	1.6	V	-0.84	-33.62	-13	20.62
1.4MHz,Middle Channel								
129.47	-47.84	20	1.3	H	-6.04	-53.88	-13	40.88
129.47	-50.10	327	1.7	V	-3.53	-53.63	-13	40.63
1415	-33.97	62	1.4	H	-0.65	-34.62	-13	21.62
1415	-32.27	157	1.9	V	-0.87	-33.14	-13	20.14
1.4MHz,High Channel								
129.47	-48.94	34	1.7	H	-6.04	-54.98	-13	41.98
129.47	-49.52	105	1.9	V	-3.53	-53.05	-13	40.05
1430.6	-33.98	266	1.5	H	-0.71	-34.69	-13	21.69
1430.6	-32.04	354	1.7	V	-0.94	-32.98	-13	19.98
LTE BAND 17								
Test frequency range: 30MHz-10GHz								
5MHz, Low Channel								
129.47	-48.31	274	1.9	H	-6.04	-54.35	-13	41.35
129.47	-49.73	23	1.8	V	-3.53	-53.26	-13	40.26
1413	-33.09	344	2.1	H	-0.65	-33.74	-13	20.74
1413	-31.71	43	1.9	V	-0.87	-32.58	-13	19.58
5MHz,Middle Channel								
129.47	-48.37	18	1.8	H	-6.04	-54.41	-13	41.41
129.47	-49.66	5	1.5	V	-3.53	-53.19	-13	40.19
1420	-32.52	19	1.4	H	-0.67	-33.19	-13	20.19
1420	-31.94	62	1.7	V	-0.91	-32.85	-13	19.85
5MHz,High Channel								
129.47	-48.58	54	1.5	H	-6.04	-54.62	-13	41.62
129.47	-50.01	180	1.8	V	-3.53	-53.54	-13	40.54
1427	-32.46	69	1.5	H	-0.71	-33.17	-13	20.17
1427	-31.91	292	2.1	V	-0.94	-32.85	-13	19.85

Frequency (MHz)	Receiver Reading (dBm)	Turntable Angle Degree	Rx Antenna Height (m)	Rx Antenna Polar (H/V)	Substituted Factor (dB/m)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
LTE BAND 38								
Test frequency range: 30MHz-26.5GHz								
5MHz, Low Channel								
129.47	-50.21	90	2.1	H	-6.04	-56.25	-25	31.25
129.47	-51.80	299	1.4	V	-3.53	-55.33	-25	30.33
5145	-55.19	223	1.9	H	9.64	-45.55	-25	20.55
5145	-53.36	139	1.6	V	8.71	-44.65	-25	19.65
5MHz, Middle Channel								
129.47	-50.84	59	1.8	H	-6.04	-56.88	-25	31.88
129.47	-52.25	84	1.6	V	-3.53	-55.78	-25	30.78
5190	-55.09	252	2.0	H	9.75	-45.34	-25	20.34
5190	-53.26	94	1.3	V	8.73	-44.53	-25	19.53
5MHz, High Channel								
129.47	-50.61	346	2.0	H	-6.04	-56.65	-25	31.65
129.47	-51.58	63	1.5	V	-3.53	-55.11	-25	30.11
5235	-55.28	339	2.0	H	9.83	-45.45	-25	20.45
5235	-53.55	75	1.6	V	8.91	-44.64	-25	19.64
LTE BAND66								
Test frequency range: 30MHz-20GHz								
1.4MHz,Low Channel								
129.47	-52.32	41	1.8	H	-6.04	-58.36	-13	45.36
129.47	-52.72	224	1.5	V	-3.53	-56.25	-13	43.25
3421.4	-45.86	329	1.6	H	2.72	-43.14	-13	30.14
3421.4	-45.46	336	1.7	V	2.61	-42.85	-13	29.85
1.4MHz,Middle Channel								
129.47	-52.62	98	1.5	H	-6.04	-58.66	-13	45.66
129.47	-52.64	314	1.7	V	-3.53	-56.17	-13	43.17
3490	-46.66	70	1.6	H	3.52	-43.14	-13	30.14
3490	-45.91	216	1.6	V	3.46	-42.45	-13	29.45
1.4MHz,High Channel								
129.47	-52.59	80	1.3	H	-6.04	-58.63	-13	45.63
129.47	-53.64	172	2.1	V	-3.53	-57.17	-13	44.17
3558.6	-47.94	294	1.8	H	3.87	-44.07	-13	31.07
3558.6	-47.45	231	1.5	V	3.8	-43.65	-13	30.65

Note:
Absolute Level = Reading Level + Substituted Factor
Substituted Factor contains: SG Level - Cable loss+ Antenna Gain
Margin = Limit- Absolute Level

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