

TESTREPORT

Applicant Name : Inrico Technologies Co., Ltd
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ReportNumber: SZGMA210715-29390E-RF-00CA1
FCC ID: 2AIV6-2-S100

Test Standard (s)

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

Sample Description

Product Type: Smart Phone
Model No.: S100
Multiple Model(s) No.: PU1Z81WAE21A
Trade Mark: Inrico
Date Received: 2021/07/15
Date of Test: 2021/09/09
Report Date: 2021/11/12

Test Result:	Pass*
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* 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 4:1710-1755 MHz(TX), 2110-2155 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 2:1850-1910 MHz(TX), 1930-1990 MHz(RX) LTE Band 4:1710-1755 MHz(TX), 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX); 2620-2690 MHz(RX) LTE Band 12: 699-716 MHz(TX), 729-746 MHz(RX) LTE Band 17: 704-716 MHz(TX), 734-746 MHz(RX) LTE Band 38:2570-2620 MHz(TX), 2570-2620 MHz(RX) LTE Band 40 Lower:2305-2315 MHz(TX), 2305-2315 MHz(RX) LTE Band 40 Upper:2350-2360 MHz(TX), 2350-2360 MHz(RX)
Modulation Technique	GMSK, 8PSK, BPSK, QPSK, 16QAM
Voltage Range	DC5V from adapter or DC 3.8V From Battery
Sample serial number	SZGMA210715-29390E-RFA1-S1(Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: HJ-0502000W2-US Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V,2000mA

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part 24-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°C
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 (ISED), 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
GSM/GPRS/EDGE 850	0.25	824.2	836.6	848.8
GSM/GPRS/EDGE 1900	0.25	1850.2	1880	1909.8
WCDMA Band 2	4.2	1852.4	1880	1907.6
WCDMA Band 4	4.2	1712.4	1732.6	1752.6
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
	103	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 Band 40 Lower 2305-2315MHz	5	2307.5	2310	2312.5
	10	/	2310	/
LTE Band 40 Upper 2350-2360MHz	5	2352.5	2355	2357.5
	10	/	2355	/

Equipment Modifications

No modification was made to the EUT.

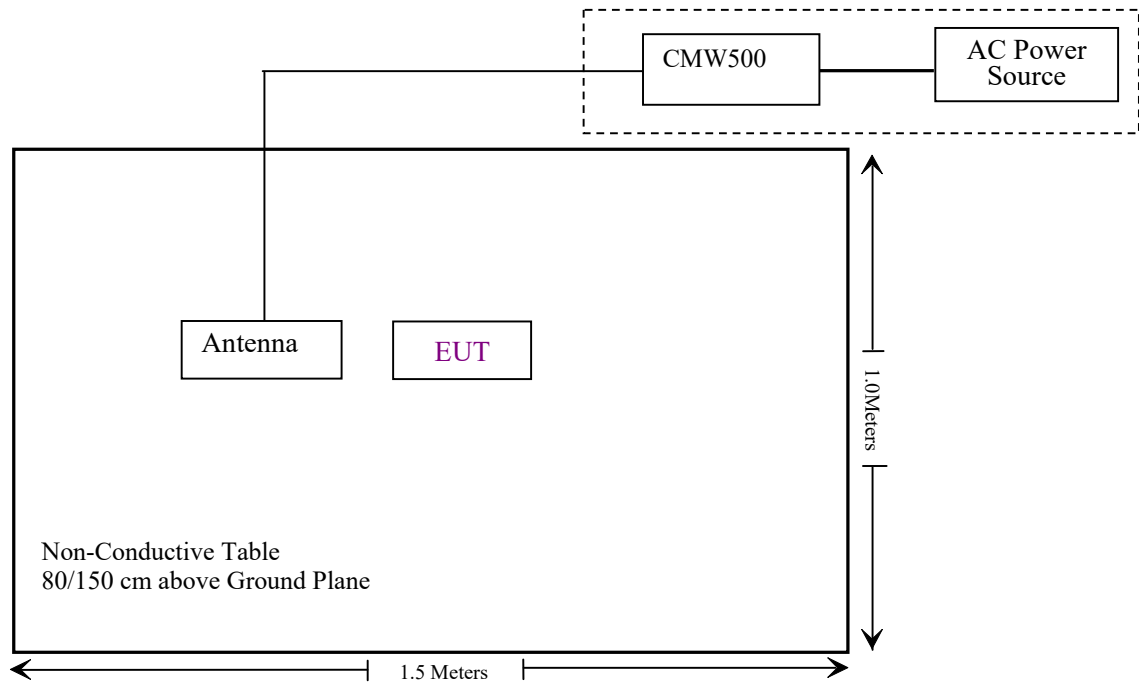
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	154606
Unknown	ANTANNA	Unknown	Unknown

Support Cable Description

Cable Description	Length (m)	From / Port	To
/	/	/	/

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 , §2.1093	RF Exposure (SAR)	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**

Note:

Compliant *: Please refer to SAR report number: CR21120022-SAA1.

Compliant **: EUT is electrical identical with the product Smart Phone (model: S100, FCC ID: 2AIV6-S100) under Inrico Technologies Co., Ltd. The difference between those two products is EUT is enable the BT&Wi-Fi function by software, and the current device had been tested and verified the RF parameters consistently with the original device, test data of those items please refer to the test report: RDG200601009-00A

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2020/12/24	2021/12/23
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	154606	2020/12/25	2021/12/24
V.R. of Signal Generators	Anritsu	68369B	004114	2021/07/31	2022/07/30
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
SCHWARZBECK	HORN ANTENNA	BBHA9120D	9120D-655	2020/01/05	2023/01/04
PASTERNAK	Horn Antenn	PE9852/2F-20	1120	2020/01/05	2023/01/04
PASTERNAK	Horn Antenn	PE9852/2F-20	1120	2020/01/05	2023/01/04
A.H. Systems, inc.	Preamplifier	PAM-0118P	531	2021/07/08	2022/07/07
Quinstar	Amplifier	QLW-184055 36-J0	15964001002	2020/11/28	2021/11/27
Rohde& Schwarz	Test Receiver	ESR	101817	2020/12/24	2021/12/23
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2020/12/25	2021/12/24
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/05	2023/01/04
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2020/01/05	2023/01/04
RF Coaxial Cable	Unknown	N-5m	No.3	2020/12/25	2021/12/24
RF Coaxial Cable	Unknown	N-5m	No.4	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.5	2020/12/25	2021/12/24
RF Coaxial Cable	Unknown	N-1m	No.6	2020/12/25	2021/12/24
RF Coaxial Cable	Unknown	N-2m	No.11	2020/12/25	2021/12/24
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2020/12/25	2021/12/24
Unknown	High Pass Filter	HPM-1.2/18G -60	110	2020/12/25	2021/12/24

* 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).

FCC §1.1307(b)&§2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: CR21120022-SAA1.

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 °C
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		Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Reading (dBm)	PK/QP/Ave.		Height (m)	Polar (H/V)				
GSM850									
Test frequency range: 30MHz-10GHz									
Low Channel									
516.2	-47.56	PK	108	1.2	H	4.34	-43.22	-13	30.22
514.7	-51.87	PK	67	1.5	V	6.36	-45.51	-13	32.51
2472.6	-49.54	PK	234	1.0	H	-5.11	-54.65	-13	41.65
2472.6	-48.04	PK	190	2.1	V	-5.09	-53.13	-13	40.13
Middle Channel									
516.2	-47.56	PK	108	1.2	H	4.34	-43.22	-13	30.22
514.7	-51.87	PK	67	1.5	V	6.36	-45.51	-13	32.51
2509.8	-46.86	PK	180	1.8	H	-5.16	-52.02	-13	39.02
2509.8	-48.11	PK	322	1.6	V	-5.04	-53.15	-13	40.15
High Channel									
516.2	-47.56	PK	108	1.2	H	4.34	-43.22	-13	30.22
514.7	-51.87	PK	67	1.5	V	6.36	-45.51	-13	32.51
2546.4	-49.13	PK	141	1.8	H	-4.76	-53.89	-13	40.89
2546.4	-48.99	PK	307	1.7	V	-4.74	-53.73	-13	40.73
PCS1900									
Test frequency range: 30MHz-20GHz									
Low Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3700.4	-43.14	PK	247	2.0	H	4.72	-38.42	-13	25.42
3700.4	-41.29	PK	330	1.3	V	4.61	-36.68	-13	23.68
Middle Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3760	-44.46	PK	187	1.3	H	4.94	-39.52	-13	26.52
3760	-40.16	PK	166	1.8	V	4.85	-35.31	-13	22.31
High Channel									
129.47	-36.30	PK	148	1.50	H	-4.35	-40.65	-13.00	27.65
129.61	-41.45	PK	214	1.40	V	-3.48	-44.93	-13.00	31.93
3819.6	-43.12	PK	295	2.1	H	5.25	-37.87	-13	24.87
3819.6	-41.60	PK	55	1.6	V	5.08	-36.52	-13	23.52

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Reading (dBm)	PK/QP/Ave.		Height (m)	Polar (H/V)				
WCDMA BAND 2									
Test frequency range: 30MHz-20GHz									
Low Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3704.8	-49.16	PK	165	1.5	H	4.75	-44.41	-13	31.41
3704.8	-52.25	PK	92	1.4	V	4.62	-47.63	-13	34.63
Middle Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3760	-49.67	PK	82	1.5	H	4.94	-44.73	-13	31.73
3760	-53.49	PK	103	1.4	V	4.85	-48.64	-13	35.64
High Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3815.2	-49.11	PK	253	2.2	H	5.22	-43.89	-13	30.89
3815.2	-52.28	PK	86	1.3	V	5.05	-47.23	-13	34.23
WCDMA BAND5									
Test frequency range: 30MHz-10GHz									
Low Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1652.8	-48.24	PK	234	1.2	H	-2.32	-50.56	-13	37.56
1652.8	-46.54	PK	223	1.3	V	-2.29	-48.83	-13	35.83
Middle Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1673.2	-49.61	PK	111	2.0	H	-2.34	-51.95	-13	38.95
1673.2	-46.84	PK	115	1.8	V	-2.31	-49.15	-13	36.15
High Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1693.2	-49.85	PK	85	1.9	H	-2.38	-52.23	-13	39.23
1693.2	-45.30	PK	60	1.7	V	-2.34	-47.64	-13	34.64

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Reading (dBm)	PK/ QP/ Ave.		Height (m)	Polar (H/V)				
WCDMA BAND 4									
Test frequency range: 30MHz-20GHz									
Low Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3424.8	-54.68	PK	39	2.0	H	3.43	-51.25	-13	38.25
3424.8	-53.12	PK	227	2.2	V	3.39	-49.73	-13	36.73
Middle Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3465.2	-55.26	PK	189	1.5	H	3.49	-51.77	-13	38.77
3465.2	-53.66	PK	84	2.1	V	3.43	-50.23	-13	37.23
High Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3505.2	-55.69	PK	41	1.8	H	3.57	-52.12	-13	39.12
3505.2	-53.39	PK	31	1.8	V	3.5	-49.89	-13	36.89

LTE Band: pre-scan all bandwidth, the worst case as below:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Reading (dBm)	PK/QP/Ave.		Height (m)	Polar (H/V)				
LTE BAND2									
Test frequency range: 30MHz-20GHz									
1.4MHz, Low Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3701.4	-49.24	PK	192	1.7	H	4.72	-44.52	-13	31.52
3701.4	-47.73	PK	57	1.8	V	4.61	-43.12	-13	30.12
1.4MHz, Middle Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3760	-48.61	PK	185	1.6	H	4.94	-43.67	-13	30.67
3760	-48.34	PK	84	1.5	V	4.85	-43.49	-13	30.49
1.4MHz, High Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3818.6	-49.48	PK	4	1.7	H	5.25	-44.23	-13	31.23
3818.6	-49.11	PK	154	1.1	V	5.08	-44.03	-13	31.03
LTE BAND 4									
Test frequency range: 30MHz-20GHz									
1.4MHz, Low Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3421.4	-49.15	PK	124	1.6	H	2.72	-46.43	-13	33.43
3421.4	-46.80	PK	300	1.2	V	2.59	-44.21	-13	31.21
1.4MHz, Middle Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3465	-48.65	PK	58	1.4	H	3.09	-45.56	-13	32.56
3465	-47.86	PK	197	1.2	V	2.97	-44.89	-13	31.89
1.4MHz, High Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
3508.6	-49.90	PK	116	1.3	H	3.44	-46.46	-13	33.46
3508.6	-48.42	PK	319	1.6	V	3.31	-45.11	-13	32.11

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Reading (dBm)	PK/QP/Ave.		Height (m)	Polar (H/V)				
LTE BAND 5									
Test frequency range: 30MHz-10GHz									
1.4MHz, Low Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1649.4	-46.43	PK	147	1.1	H	-2.79	-49.22	-13	36.22
1649.4	-45.40	PK	107	1.5	V	-2.73	-48.13	-13	35.13
1.4MHz, Middle Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1673	-45.94	PK	115	1.0	H	-2.74	-48.68	-13	35.68
1673	-45.63	PK	254	1.4	V	-2.69	-48.32	-13	35.32
1.4MHz, High Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1696.6	-46.62	PK	302	1.1	H	-2.7	-49.32	-13	36.32
1696.6	-45.32	PK	115	1.0	V	-2.65	-47.97	-13	34.97
LTE BAND 7									
Test frequency range: 30MHz-26.5GHz									
5MHz, Low Channel									
82.56	-62.13	PK	205	1.0	H	-4.23	-66.36	-25	41.36
81.21	-59.00	PK	54	1.4	V	-5.58	-64.58	-25	39.58
5005	-51.37	PK	355	1.3	H	8.82	-42.55	-25	17.55
5005	-51.95	PK	187	2.0	V	8.53	-43.42	-25	18.42
5MHz, Middle Channel									
82.56	-62.12	PK	165	1.5	H	-4.23	-66.35	-25	41.35
81.21	-59.74	PK	172	1.5	V	-5.58	-65.32	-25	40.32
5070	-50.14	PK	247	1.7	H	9.18	-40.96	-25	15.96
5070	-51.73	PK	284	1.8	V	8.56	-43.17	-25	18.17
5MHz, High Channel									
82.56	-62.09	PK	143	1.4	H	-4.23	-66.32	-25	41.32
81.21	-59.56	PK	358	2.2	V	-5.58	-65.14	-25	40.14
5135	-50.99	PK	78	1.5	H	9.47	-41.52	-25	16.52
5135	-51.90	PK	225	1.8	V	8.65	-43.25	-25	18.25

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Reading (dBm)	PK/QP/Ave.		Height (m)	Polar (H/V)				
LTE BAND 12									
Test frequency range: 30MHz-10GHz									
1.4MHz, Low Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1399.4	-53.12	PK	264	1.7	H	-0.53	-53.65	-13	40.65
1399.4	-51.81	PK	94	1.5	V	-0.74	-52.55	-13	39.55
1.4MHz, Middle Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1415	-53.19	PK	79	2.1	H	-0.7	-53.89	-13	40.89
1415	-52.19	PK	346	1.8	V	-0.9	-53.09	-13	40.09
1.4MHz, High Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1430.6	-52.83	PK	221	2.1	H	-0.88	-53.71	-13	40.71
1430.6	-51.65	PK	68	1.9	V	-1.07	-52.72	-13	39.72
LTE BAND 17									
Test frequency range: 30MHz-10GHz									
5MHz, Low Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1413	-53.81	PK	157	1.2	H	-0.65	-54.46	-13	41.46
1413	-53.34	PK	167	2.1	V	-0.87	-54.21	-13	41.21
5MHz, Middle Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1420	-54.69	PK	90	1.9	H	-0.67	-55.36	-13	42.36
1420	-54.12	PK	42	1.7	V	-0.91	-55.03	-13	42.03
5MHz, High Channel									
82.56	-49.00	PK	343	1.6	H	-4.23	-53.23	-13	40.23
81.21	-47.10	PK	12	2.2	V	-5.58	-52.68	-13	39.68
1427	-54.15	PK	179	2.2	H	-0.71	-54.86	-13	41.86
1427	-53.61	PK	97	2.1	V	-0.94	-54.55	-13	41.55

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Reading (dBm)	PK/QP/Ave.		Height (m)	Polar (H/V)				
LTE BAND 38									
Test frequency range: 30MHz-26.5GHz									
5MHz, Low Channel									
82.56	-61.86	PK	3	1.3	H	-4.23	-66.09	-25	41.09
81.21	-59.55	PK	245	1.0	V	-5.58	-65.13	-25	40.13
5145	-53.16	PK	143	1.2	H	9.64	-43.52	-25	18.52
5145	-52.03	PK	219	2.1	V	8.71	-43.32	-25	18.32
5MHz, Middle Channel									
82.56	-62.34	PK	68	2.1	H	-4.23	-66.57	-25	41.57
81.21	-60.03	PK	190	1.9	V	-5.58	-65.61	-25	40.61
5190	-55.08	PK	132	1.4	H	9.75	-45.33	-25	20.33
5190	-53.80	PK	230	1.6	V	8.73	-45.07	-25	20.07
5MHz, High Channel									
82.56	-62.06	PK	12	2.0	H	-4.23	-66.29	-25	41.29
81.21	-59.78	PK	320	1.8	V	-5.58	-65.36	-25	40.36
5235	-55.00	PK	230	1.9	H	9.83	-45.17	-25	20.17
5235	-54.00	PK	178	1.9	V	8.91	-45.09	-25	20.09
LTE BAND40 Lower									
Test frequency range: 30MHz-24GHz									
5MHz, Low Channel									
82.56	-57.72	PK	97	2.0	H	-4.23	-61.95	-40	21.95
81.21	-51.76	PK	294	2.2	V	-5.58	-57.34	-40	17.34
4615	-56.06	PK	342	1.8	H	8.88	-47.18	-40	7.18
4615	-54.63	PK	323	1.7	V	8.28	-46.35	-40	6.35
5MHz, Middle Channel									
82.56	-57.35	PK	100	1.9	H	-4.23	-61.58	-40	21.58
81.21	-51.66	PK	116	1.5	V	-5.58	-57.24	-40	17.24
4620	-56.24	PK	333	1.1	H	8.88	-47.36	-40	7.36
4620	-54.83	PK	157	1.3	V	8.28	-46.55	-40	6.55
5MHz, High Channel									
82.56	-56.65	PK	256	1.6	H	-4.23	-60.88	-40	20.88
81.21	-51.65	PK	335	1.1	V	-5.58	-57.23	-40	17.23
4625	-55.97	PK	196	2.0	H	8.89	-47.08	-40	7.08
4625	-54.52	PK	32	1.9	V	8.28	-46.24	-40	6.24

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	Reading (dBm)	PK/QP/Ave.		Height (m)	Polar (H/V)				
LTE BAND40 Upper									
Test frequency range: 30MHz-24GHz									
5MHz, Low Channel									
82.56	-56.73	PK	310	1.4	H	-4.23	-60.96	-40	20.96
81.21	-51.76	PK	299	2.2	V	-5.58	-57.34	-40	17.34
4705	-53.27	PK	19	2.0	H	9.02	-44.25	-40	4.25
4705	-51.43	PK	293	1.2	V	8.29	-43.14	-40	3.14
5MHz, Middle Channel									
82.56	-56.84	PK	178	1.2	H	-4.23	-61.07	-40	21.07
81.21	-53.18	PK	303	1.7	V	-5.58	-58.76	-40	18.76
4710	-53.68	PK	65	1.9	H	9.03	-44.65	-40	4.65
4710	-51.81	PK	57	2.0	V	8.29	-43.52	-40	3.52
5MHz, High Channel									
82.56	-57.32	PK	51	1.0	H	-4.23	-61.55	-40	21.55
81.21	-56.06	PK	308	2.1	V	-5.58	-61.64	-40	21.64
4715.03	-53.78	PK	190	1.8	H	9.04	-44.74	-40	4.74
4715.03	-51.48	PK	192	1.7	V	8.29	-43.19	-40	3.19

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: SG Level - Cable loss+ Antenna Gain

Margin = Limit- Absolute Level

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