



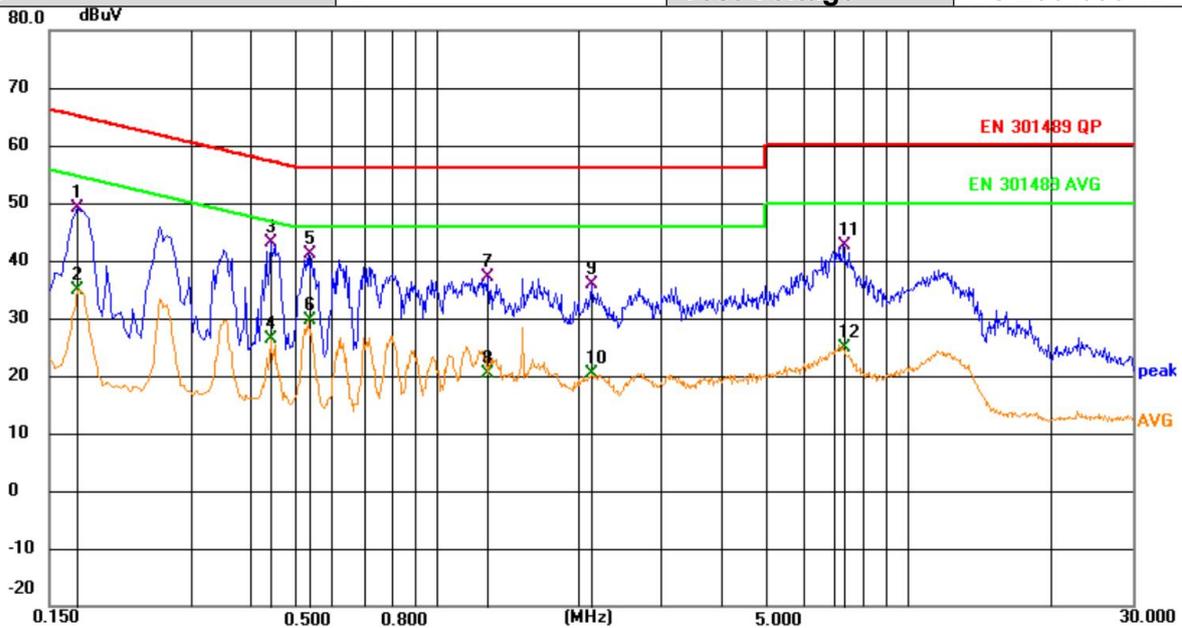
Appendix A for Emission and Immunity test results

Product Name: Smartphone

Test Model: KINGKONG 8

A.1 Line Conducted Emission

Test Model	KINGKONG 8	Test Mode	TM1
Environmental Conditions	23.5°C, 53.6% RH	Test Engineer	Taylor Hu
Pol.	Line	Test Voltage	AC 230V/50Hz

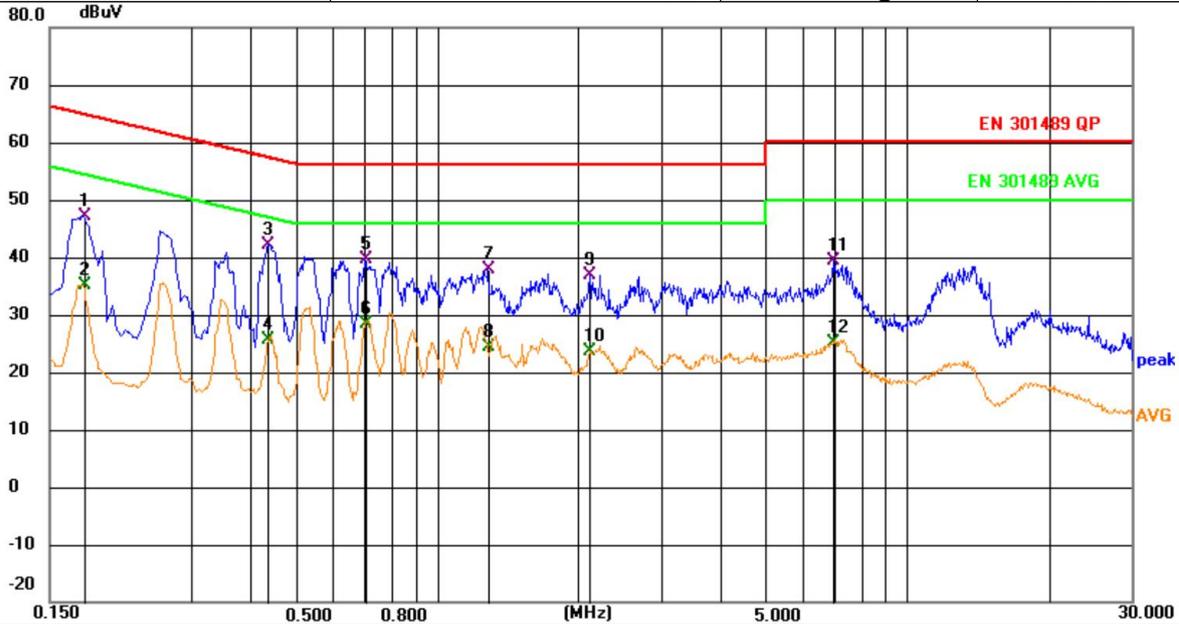


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1726	29.39	19.63	49.02	64.83	-15.81	QP	
2		0.1726	15.25	19.63	34.88	54.83	-19.95	AVG	
3	*	0.4426	23.60	19.64	43.24	57.01	-13.77	QP	
4		0.4426	6.81	19.64	26.45	47.01	-20.56	AVG	
5		0.5325	21.40	19.65	41.05	56.00	-14.95	QP	
6		0.5325	9.90	19.65	29.55	46.00	-16.45	AVG	
7		1.2795	17.43	19.66	37.09	56.00	-18.91	QP	
8		1.2795	0.64	19.66	20.30	46.00	-25.70	AVG	
9		2.1345	16.14	19.68	35.82	56.00	-20.18	QP	
10		2.1345	0.70	19.68	20.38	46.00	-25.62	AVG	
11		7.2916	22.87	19.74	42.61	60.00	-17.39	QP	
12		7.2916	5.03	19.74	24.77	50.00	-25.23	AVG	





Test Model	KINGKONG 8	Test Mode	TM1
Environmental Conditions	23.5°C, 53.6% RH	Test Engineer	Taylor Hu
Pol.	Neutral	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comme
1		0.1768	27.53	19.63	47.16	64.63	-17.47	QP	
2		0.1768	15.39	19.63	35.02	54.63	-19.61	AVG	
3	*	0.4374	22.43	19.64	42.07	57.11	-15.04	QP	
4		0.4374	5.88	19.64	25.52	47.11	-21.59	AVG	
5		0.7010	19.95	19.65	39.60	56.00	-16.40	QP	
6		0.7010	8.78	19.65	28.43	46.00	-17.57	AVG	
7		1.2824	18.19	19.66	37.85	56.00	-18.15	QP	
8		1.2824	4.63	19.66	24.29	46.00	-21.71	AVG	
9		2.1101	17.25	19.69	36.94	56.00	-19.06	QP	
10		2.1101	4.00	19.69	23.69	46.00	-22.31	AVG	
11		6.9508	19.47	19.82	39.29	60.00	-20.71	QP	
12		6.9508	5.23	19.82	25.05	50.00	-24.95	AVG	

Note: For conducted emission and radiated emission test, a power supply of 230VAC and 120VAC was used for testing respectively, and only recorded the worst case of 230VAC.

Margin= Reading Level + Correct Factor – Limit

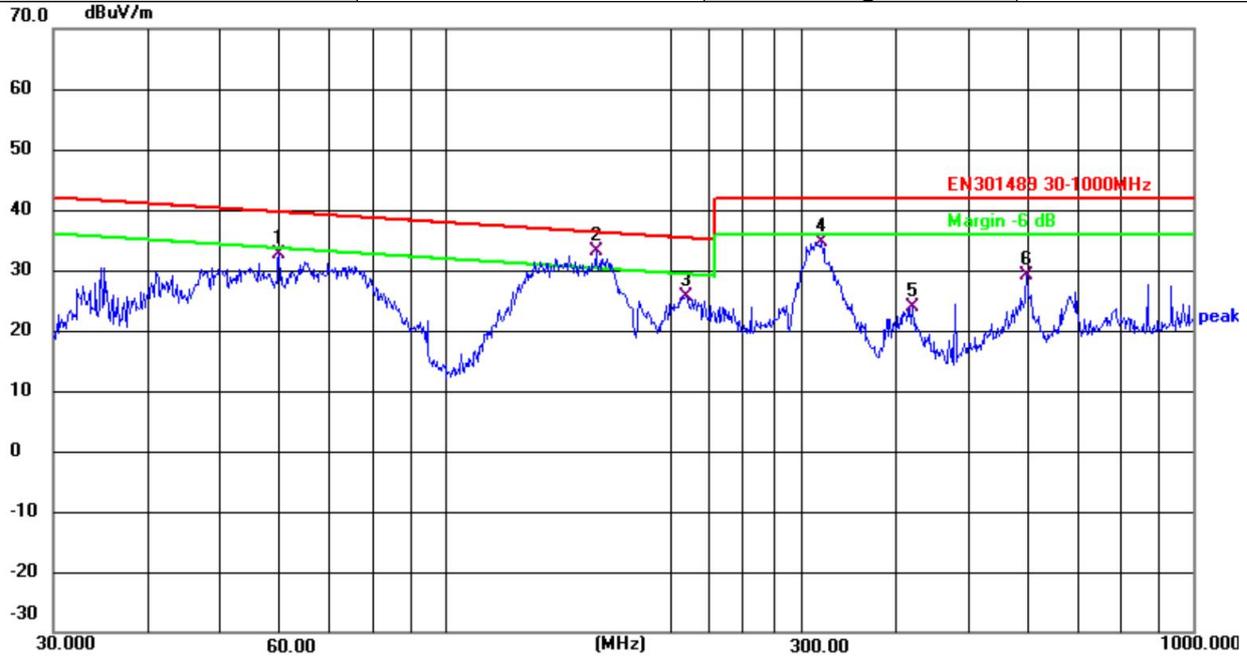
Correct Factor=Lisn Factor+Cable Factor





A.3 Radiated Disturbance

Test Model	KINGKONG 8	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Taylor Hu
Pol.	Vertical	Detector Function	Quasi-peak
Distance	3m	Test Voltage	AC 230V/50Hz

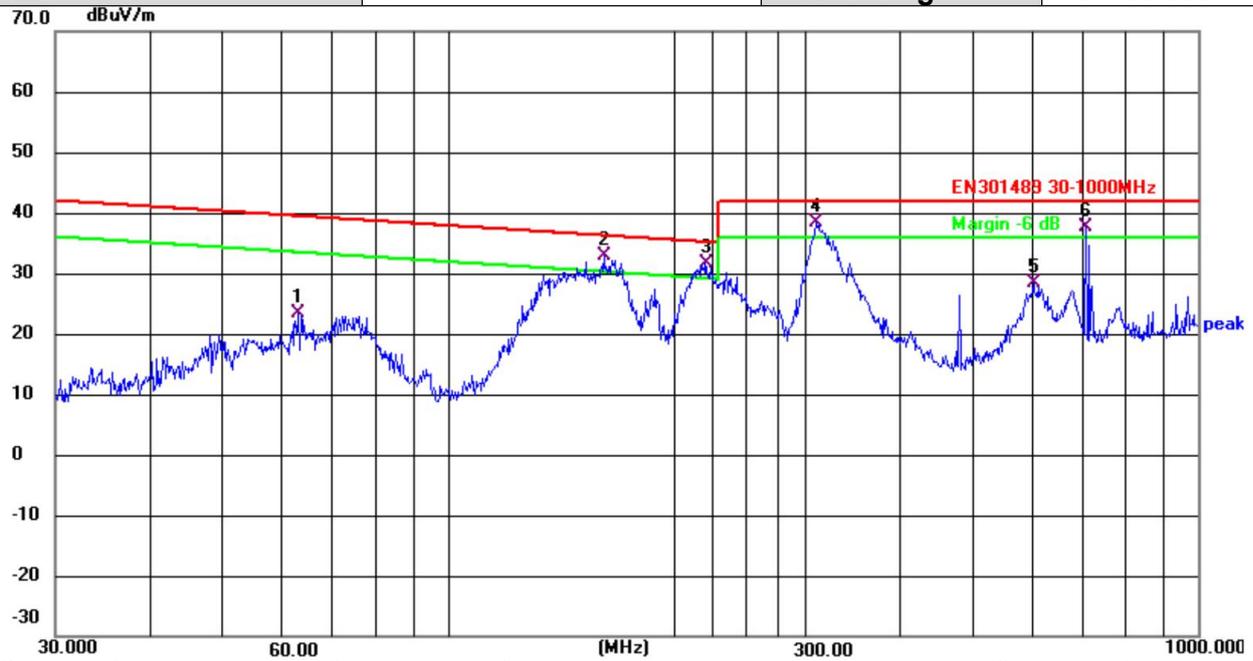


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	60.0690	51.45	-18.85	32.60	39.61	-7.01	QP
2	159.2249	52.76	-19.69	33.07	36.26	-3.19	QP
3	210.0481	42.88	-17.13	25.75	35.31	-9.56	QP
4	318.8170	49.20	-14.54	34.66	42.00	-7.34	QP
5	422.0577	38.24	-14.43	23.81	42.00	-18.19	QP
6	599.3211	39.48	-10.44	29.04	42.00	-12.96	QP





Test Model	KINGKONG 8	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Taylor Hu
Pol.	Horizontal	Detector Function	Quasi-peak
Distance	3m	Test Voltage	AC 230V/50Hz



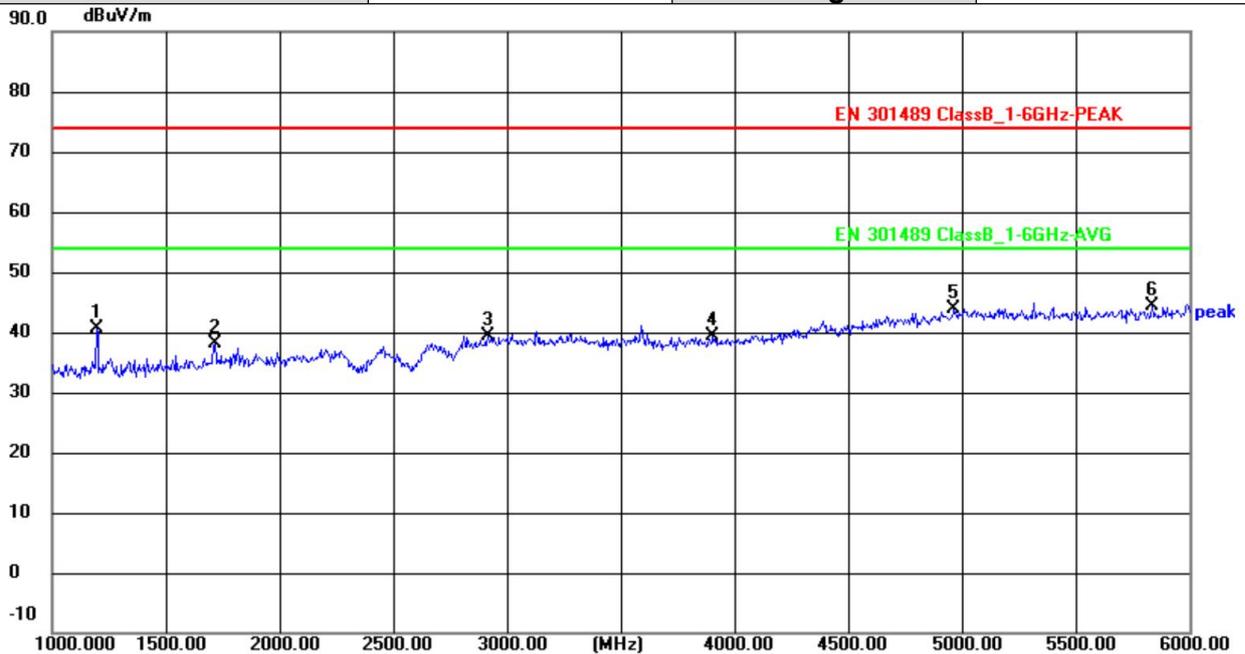
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	63.3132	42.42	-19.05	23.37	39.43	-16.06	QP
2	161.4740	52.63	-19.66	32.97	36.22	-3.25	QP
3	220.6171	48.39	-16.86	31.53	35.14	-3.61	QP
4	309.9977	53.49	-15.04	38.45	42.00	-3.55	QP
5	603.5391	38.92	-10.52	28.40	42.00	-13.60	QP
6	709.1821	48.28	-10.77	37.51	42.00	-4.49	QP

Note: Margin= Reading Level + Correct Factor – Limit
 Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor





Test Model	KINGKONG 8	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.9°C, 52.1% RH	Test Engineer	Taylor Hu
Pol.	Vertical	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz

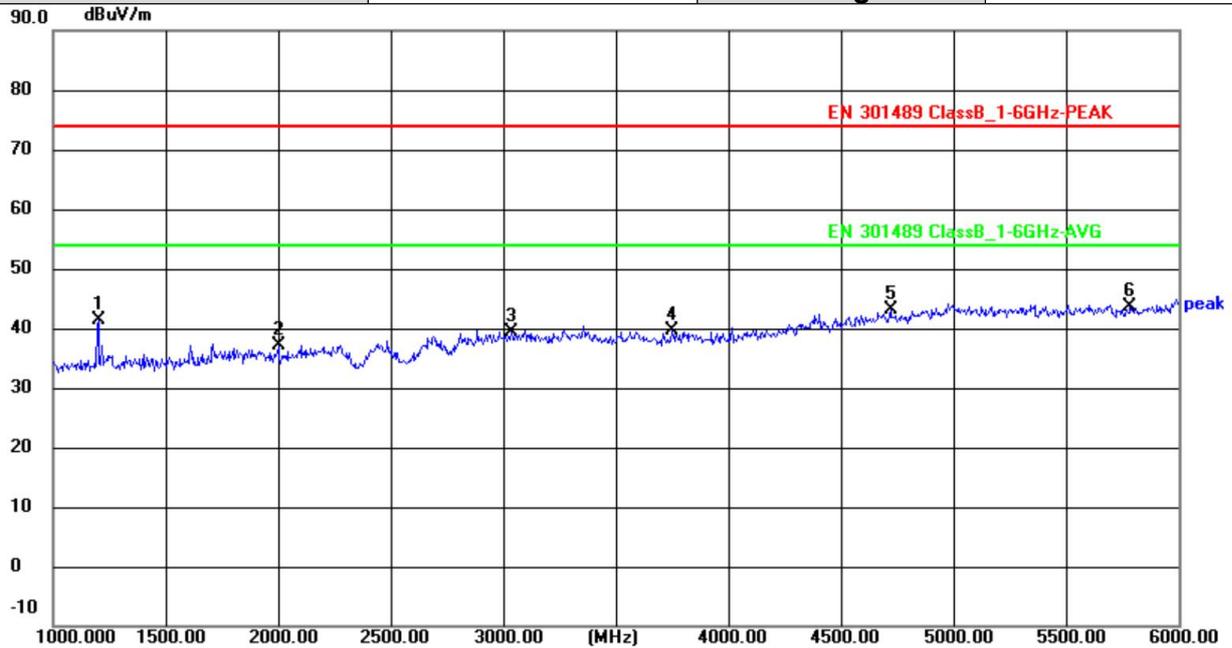


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1195.000	55.94	-15.21	40.73	74.00	-33.27	peak
2	1715.000	52.44	-14.35	38.09	74.00	-35.91	peak
3	2915.000	49.20	-9.89	39.31	74.00	-34.69	peak
4	3905.000	48.14	-8.70	39.44	74.00	-34.56	peak
5	4965.000	48.18	-4.28	43.90	74.00	-30.10	peak
6	5835.000	47.87	-3.52	44.35	74.00	-29.65	peak





Test Model	KINGKONG 8	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.9°C, 52.1% RH	Test Engineer	Taylor Hu
Pol.	Horizontal	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1200.000	56.60	-15.21	41.39	74.00	-32.61	peak
2	2000.000	50.26	-13.10	37.16	74.00	-36.84	peak
3	3035.000	49.05	-9.57	39.48	74.00	-34.52	peak
4	3750.000	48.71	-8.97	39.74	74.00	-34.26	peak
5	4720.000	48.60	-5.50	43.10	74.00	-30.90	peak
6	5785.000	47.05	-3.48	43.57	74.00	-30.43	peak

Note:

1. Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
2. Measurements above show only up to 6 maximum emissions noted.
3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Factor = Antenna Factor + Cable Loss + Amplifier Factor
Emission Level = Reading level + Factor
Margin = Emission Level - Limit





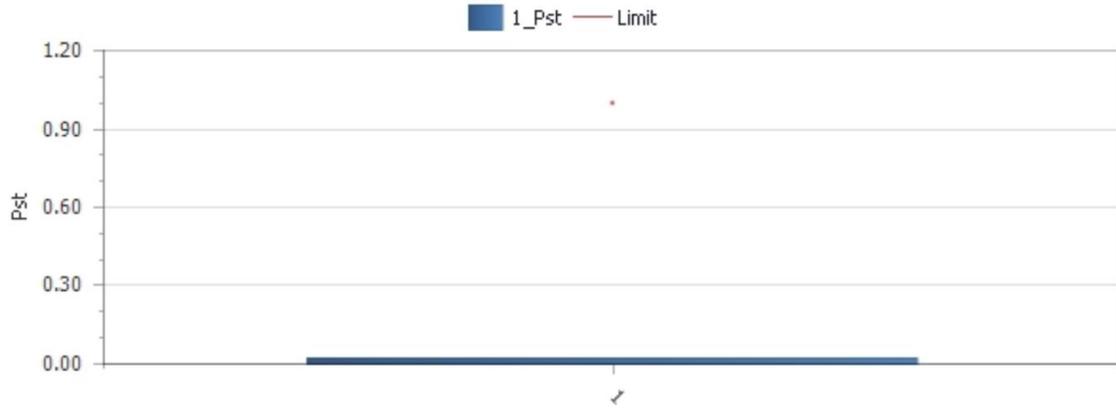
A.4 Harmonic Current Emissions

Because power of EUT less than 75W, according to standard EN 61000-3-2, Harmonic current unnecessary to test.

A.5 Voltage Fluctuation and Flicker

Test Model	KINGKONG 8	Test Mode	TM1
Test Engineer	Taylor Hu	Test Voltage	AC 230V/50Hz
Environmental Conditions	23.1°C, 55.2% RH		

Pst and Limit



Relevant Parameter and Judgement During Test Period

Vrms at the end of test(V)	230.03			
Error Max (%)		Test Limit (%)		
T-max (ms)	0.00	Test Limit (ms)	500	Pass
dc (%)	0.00	Test Limit (%)	3.30	Pass
dmax (%)	0.00	Test Limit (%)	4.00	Pass
Pst	0.024	Test Limit	1.000	Pass



**A.6 RF Electromagnetic Field (80 MHz - 6000 MHz)**

Test Model	KINGKONG 8	Test Engineer	Taylor Hu
Environmental Conditions	23.2°C, 52.4% RH	Test Voltage	AC 230V/50Hz

TM1-TM18 Test Result:

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
GSM/GPRS/EGPRS 900 MHz, Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back	Pass
GSM/GPRS/EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
DCS/GPRS/EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
DCS/GPRS/EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
WCDMA/ HSDPA/HSUPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
WCDMA HSDPA/HSUPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
WCDMA/ HSDPA/HSUPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
WCDMA HSDPA/HSUPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back	Pass
E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
E-UTRA Band 3	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass



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Idle	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
E-UTRA Band 28 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
E-UTRA Band 28 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass

TM19-TM22 Test Result:

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
Operating Mode	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back	Pass



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**TM23-TM27 Test Result:**

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
Operating Mode	Vertical	80-6000	3	CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CR	Front, Right, Left, Back	Pass
	Vertical	80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test)	3	CR	Front, Right, Left, Back	Pass
	Horizontal	80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test)	3	CR	Front, Right, Left, Back	Pass

TM28-TM33 Test Result:

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
Operating Mode	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass



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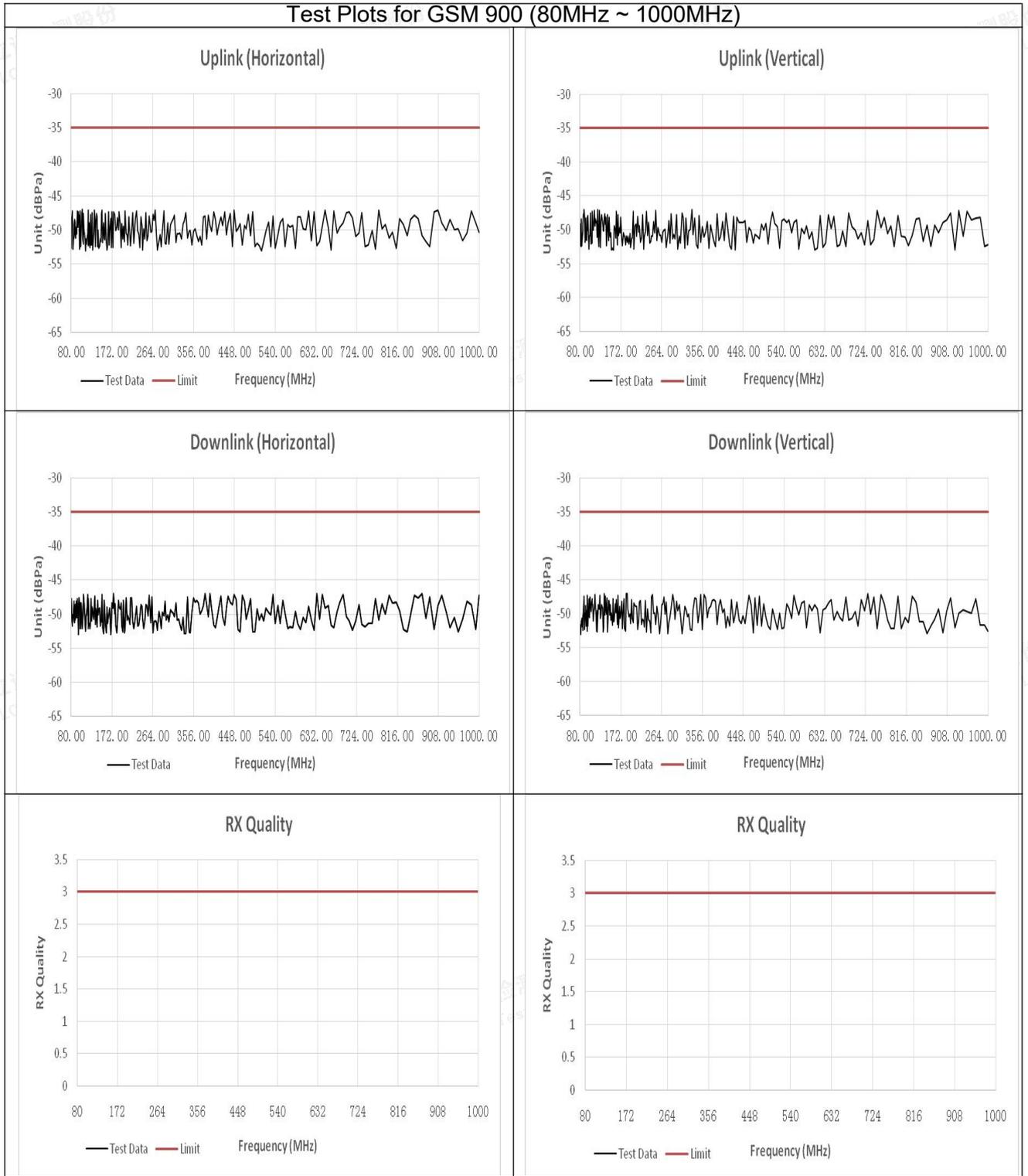
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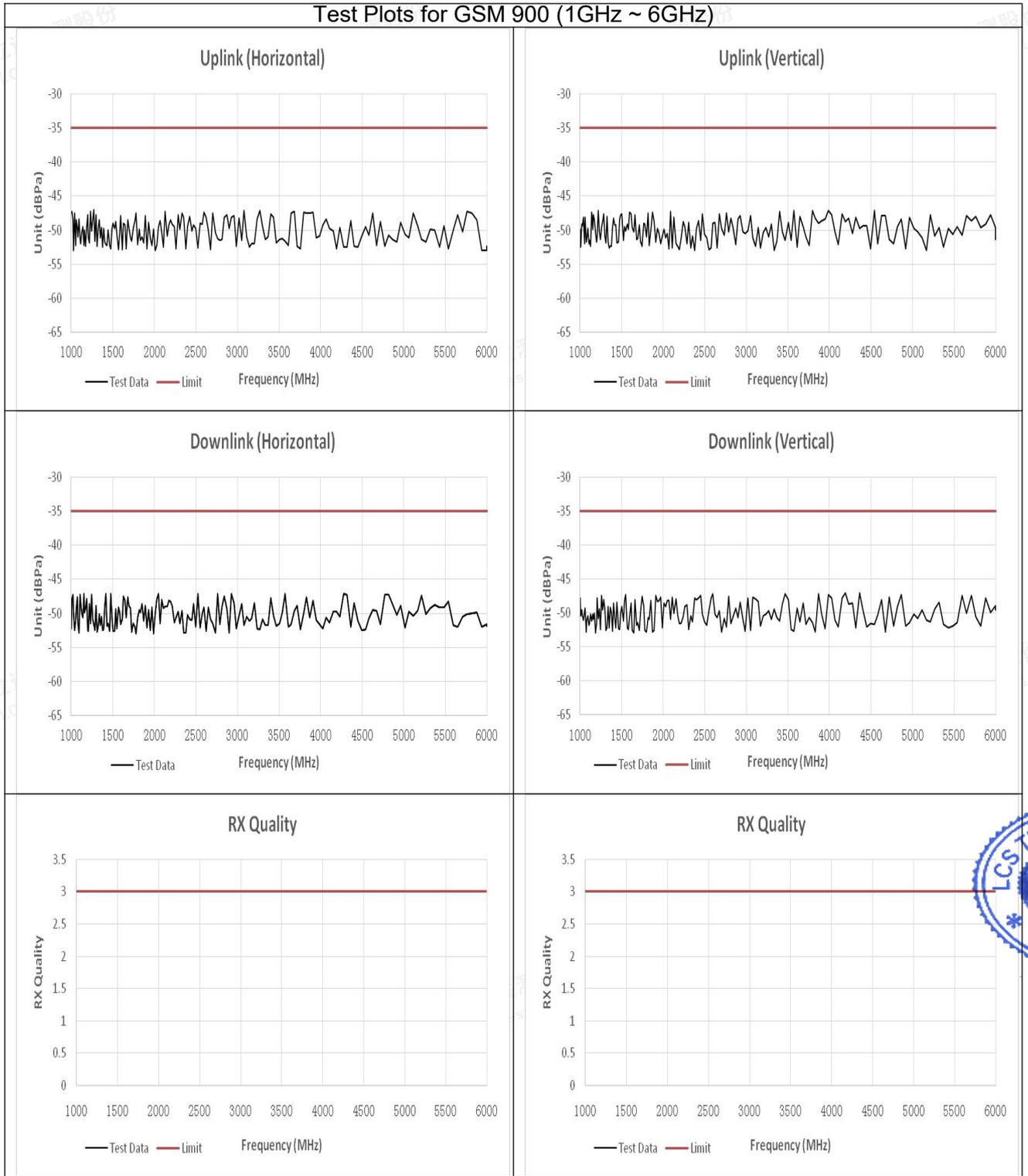


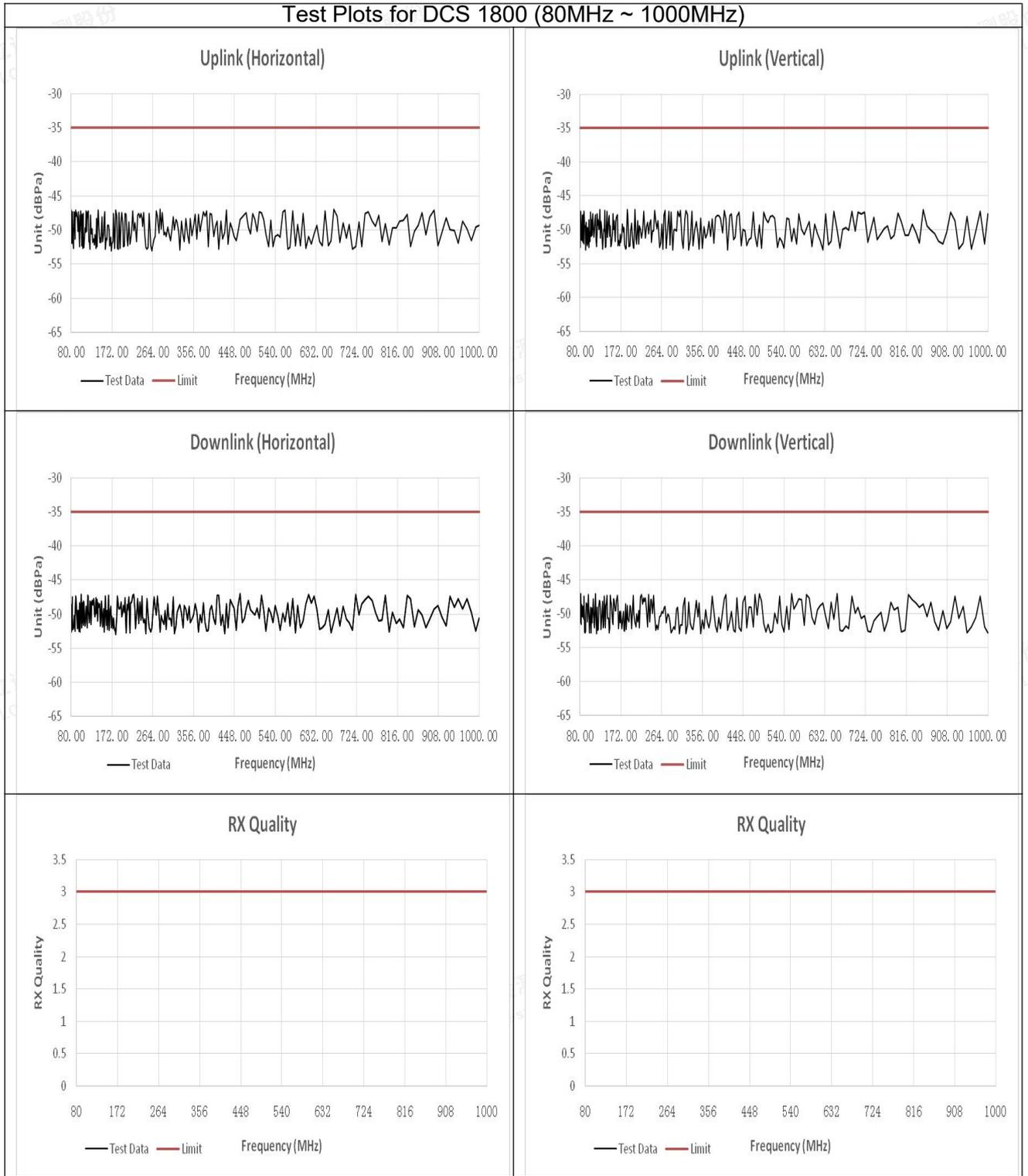
Special conditions for EMC immunity tests

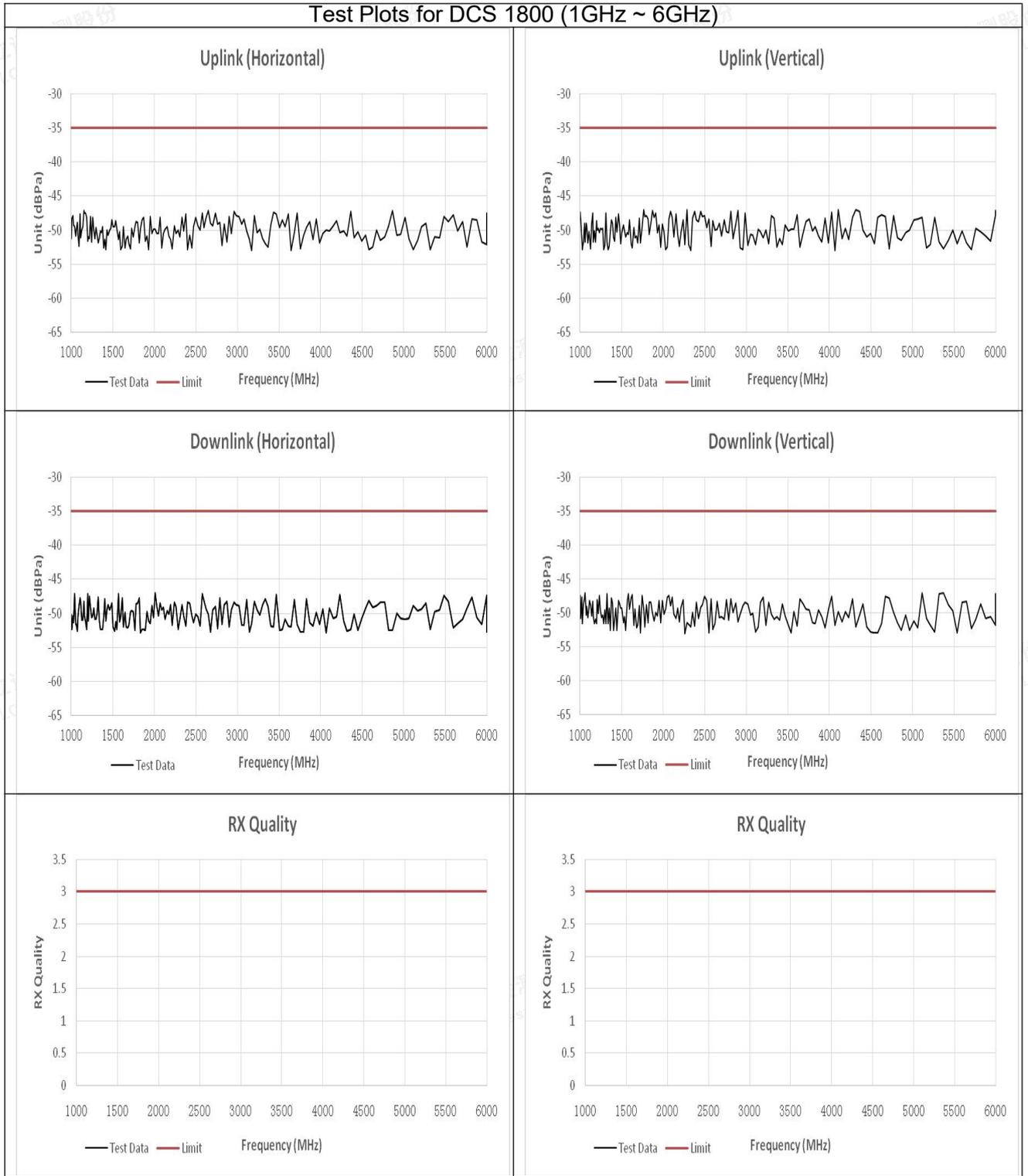
EUT Operating Mode		Polarity	Conclusion
GSM 900	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	RX Quality	H	Pass
		V	Pass
DCS 1800	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	RX Quality	H	Pass
		V	Pass
WCDMA HSDPA/HSUPA Band I 2100MHz	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	BER	H	Pass
		V	Pass
WCDMA HSDPA/HSUPA Band VIII 900MHz	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	BER	H	Pass
		V	Pass

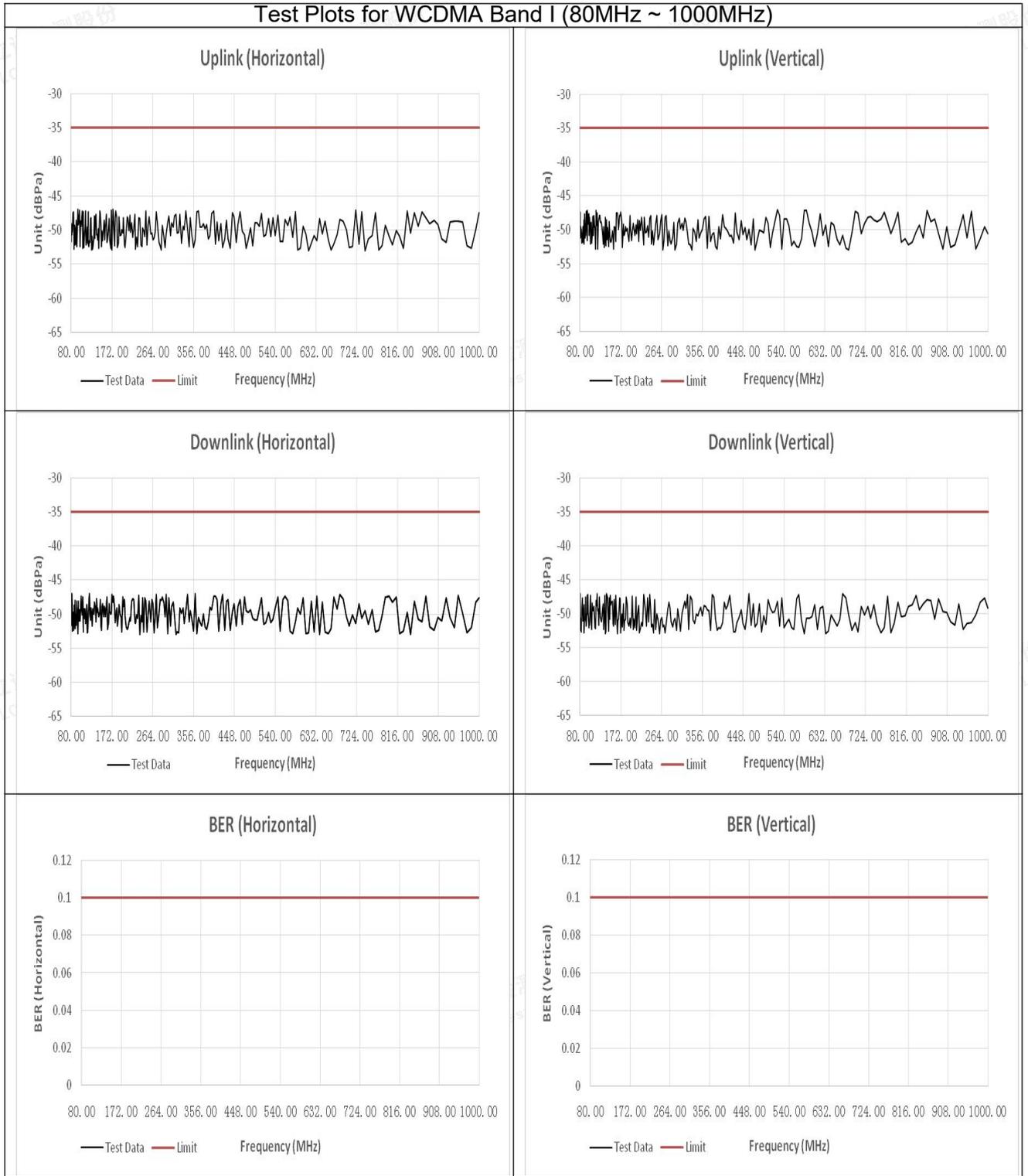


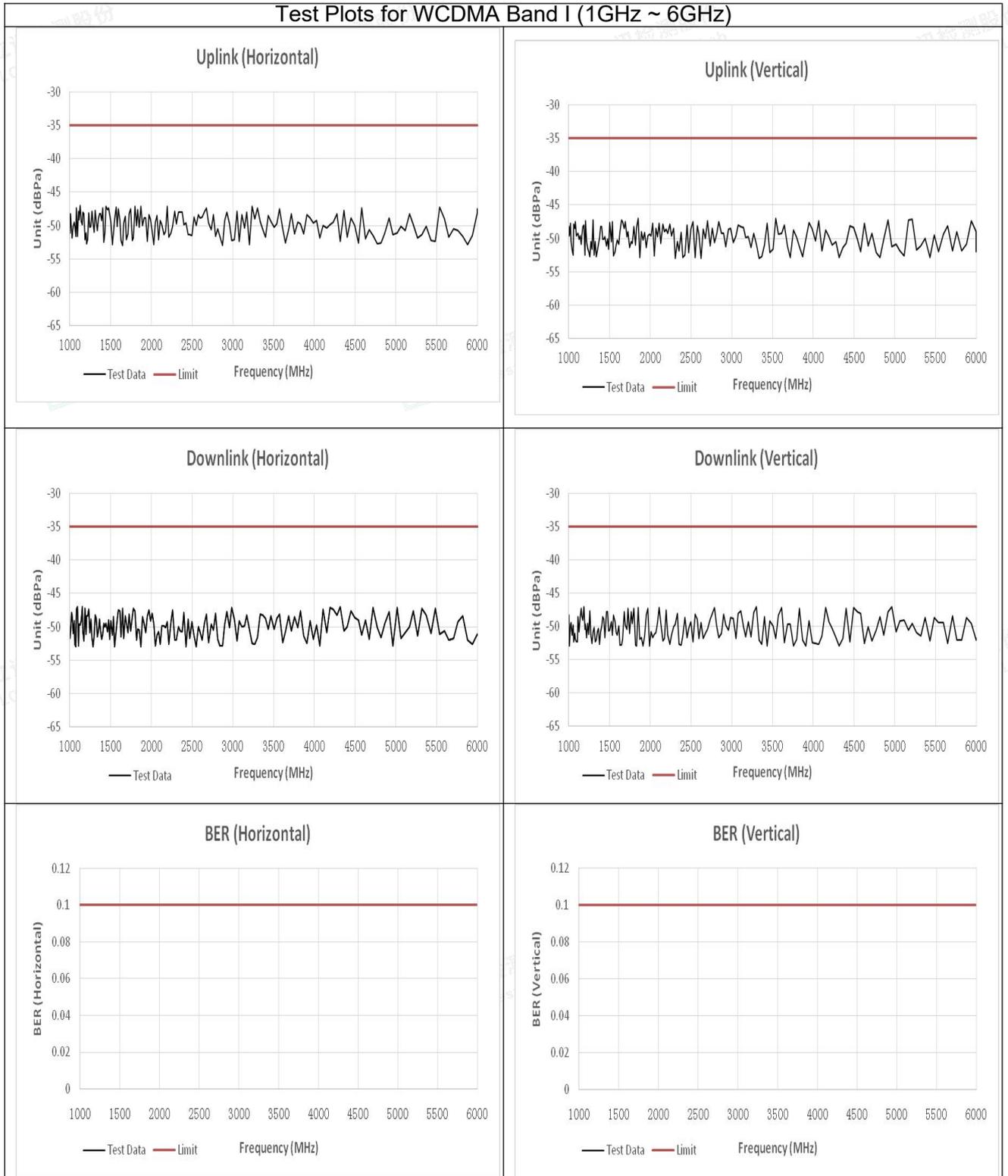






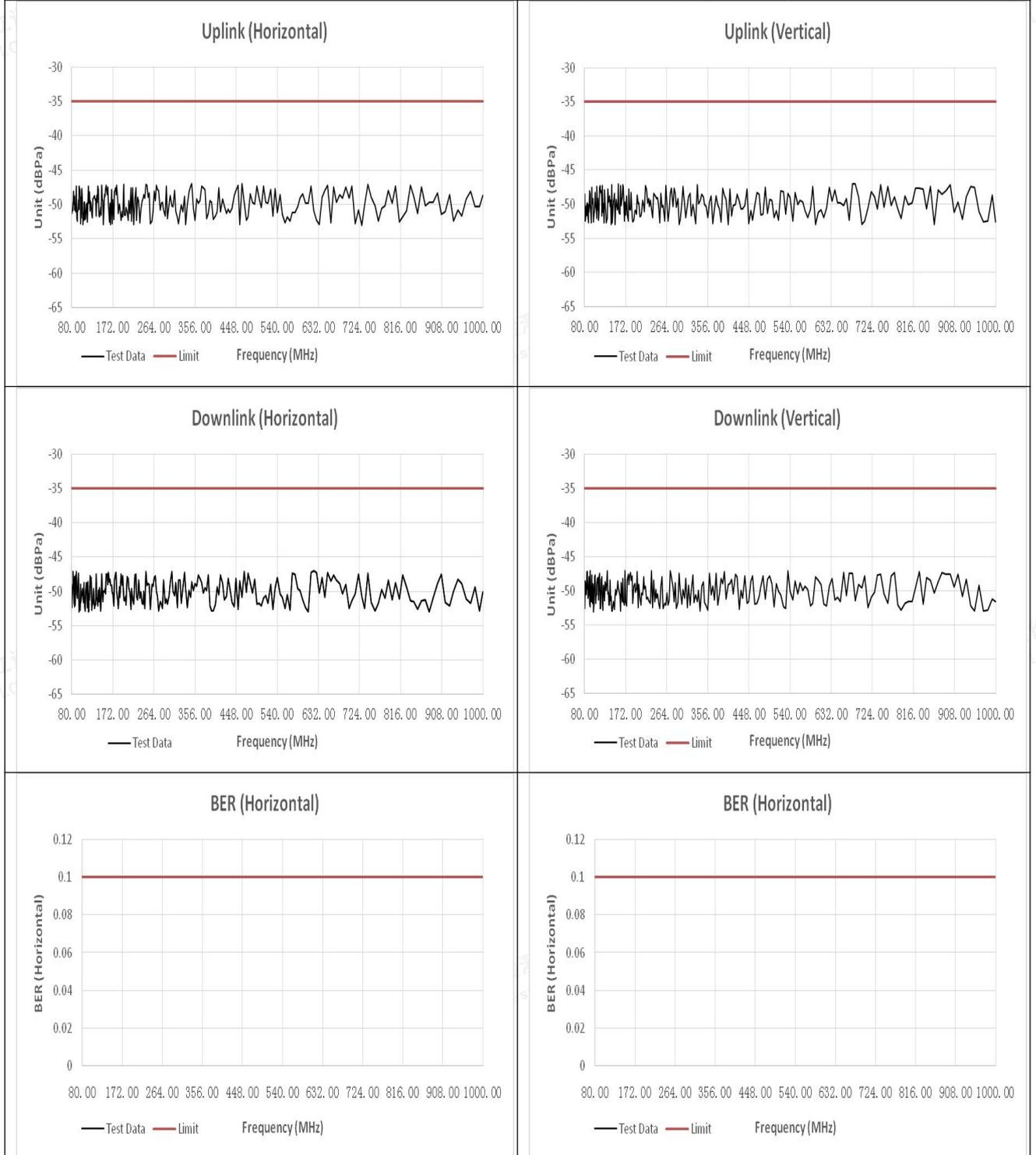


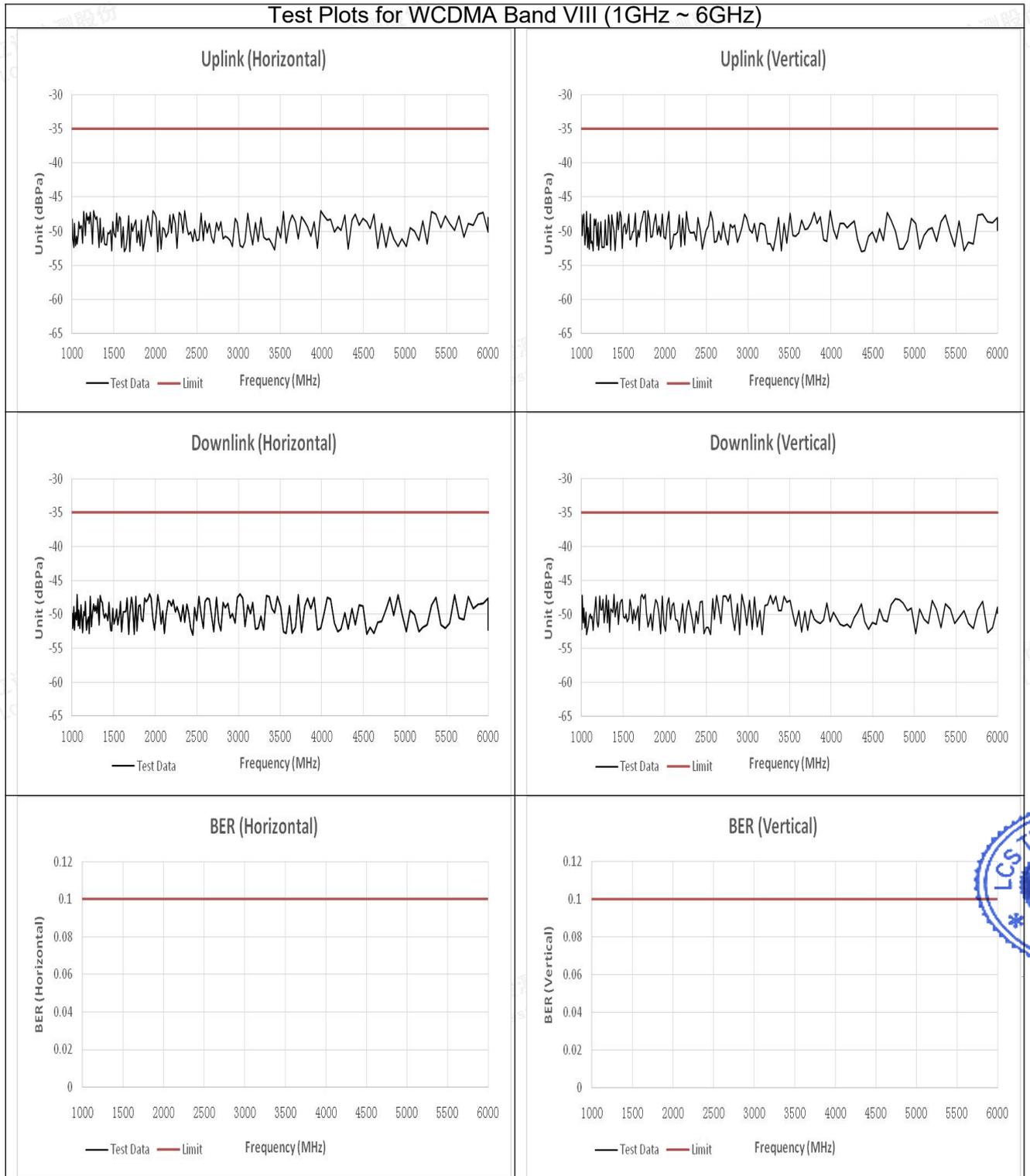






Test Plots for WCDMA Band VIII (80MHz ~ 1000MHz)





Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

During the test, the Maximum Bit Error Ratio was less than 0.001

During the test, the Maximum Block Error Ratio was less than 0.01

For E-UTRA Band 1/3/7/8/20/28 (In the data transfer mode), the throughput is $\geq 95\%$ of the maximum throughput of the reference measurement channel as specified in annex C in TS 136 101 [13] with parameters specified in tables 7.3.1-1 and 7.3.1-2 in TS 136 101 [13] during the test sequence.



**A.7 Electrostatic Discharge****Electrostatic Discharge Test Results**

Standard	<input type="checkbox"/> IEC 61000-4-2 <input checked="" type="checkbox"/> EN 61000-4-2		
Applicant	Shenzhen Huaforui Technology Co., Ltd.		
EUT	Smartphone	Temperature	22.6°C
M/N	KINGKONG 8	Humidity	53.1%
Criterion	B	Pressure	1021mbar
Test Mode	TM1-TM33	Test Engineer	Taylor Hu

TEST RESULT OF TM1-TM22

Test Voltage	Coupling	Observation	Result (Pass/Fail)
±2KV, ±4kV	Contact Discharge	TT, TR	Pass
±2KV, ±4kV, ±8kV	Air Discharge	TT, TR	Pass
±2KV, ±4kV	Indirect Discharge HCP	TT, TR	Pass
±2KV, ±4kV	Indirect Discharge VCP	TT, TR	Pass

TEST RESULT OF TM23-TM27

Test Voltage	Coupling	Observation	Result (Pass/Fail)
±2KV, ±4kV	Contact Discharge	TR	Pass
±2KV, ±4kV, ±8kV	Air Discharge	TR	Pass
±2KV, ±4kV	Indirect Discharge HCP	TR	Pass
±2KV, ±4kV	Indirect Discharge VCP	TR	Pass

TEST RESULT OF TM28-TM33

Test Voltage	Coupling	Result (Pass/Fail)
±2KV, ±4kV	Contact Discharge	Pass
±2KV, ±4kV, ±8kV	Air Discharge	Pass
±2KV, ±4kV	Indirect Discharge HCP	Pass
±2KV, ±4kV	Indirect Discharge VCP	Pass

Note: The EUT performance complied with performance criteria for TT&TR to MS Function and there is no any degradation of performance and function.



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A.8 Electrical Fast Transient Immunity

Electrical Fast Transient/Burst Test Results			
Standard	<input type="checkbox"/> IEC 61000-4-4 <input checked="" type="checkbox"/> EN 61000-4-4		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	22.2°C
M/N	KINGKONG 8	Humidity	52.1%
Test Mode	TM1-TM33	Criterion	B
Test Engineer	Taylor Hu		

TEST RESULT OF TM1-TM22

Line	Test Voltage	Polarity	Observation	Result (Pass/Fail)
L	1KV	+/-	TT, TR	Pass
N	1KV	+/-	TT, TR	Pass
L-N	1KV	+/-	TT, TR	Pass

TEST RESULT OF TM23-TM27

Line	Test Voltage	Polarity	Observation	Result (Pass/Fail)
L	1KV	+/-	TR	Pass
N	1KV	+/-	TR	Pass
L-N	1KV	+/-	TR	Pass

TEST RESULT OF TM28-TM33

Line	Test Voltage	Polarity	Result (Pass/Fail)
L	1KV	+/-	Pass
N	1KV	+/-	Pass
L-N	1KV	+/-	Pass



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A.9 RF Common Mode

Injected Currents Susceptibility Test Results

Standard	<input type="checkbox"/> IEC 61000-4-6 <input checked="" type="checkbox"/> EN 61000-4-6		
Applicant	Shenzhen Huafului Technology Co., Ltd.		
EUT	Smartphone	Temperature	24.2°C
M/N	KINGKONG 8	Humidity	53.4%
Test Mode	TM1-TM33	Criterion	A
Test Engineer	Taylor Hu		

TEST RESULT OF TM1-TM22

Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CT, CR	Pass

TEST RESULT OF TM23-TM27

Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CR	Pass

TEST RESULT OF TM28-TM33

Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	Pass

Remark:

- Modulation Signal: 1kHz 80% AM

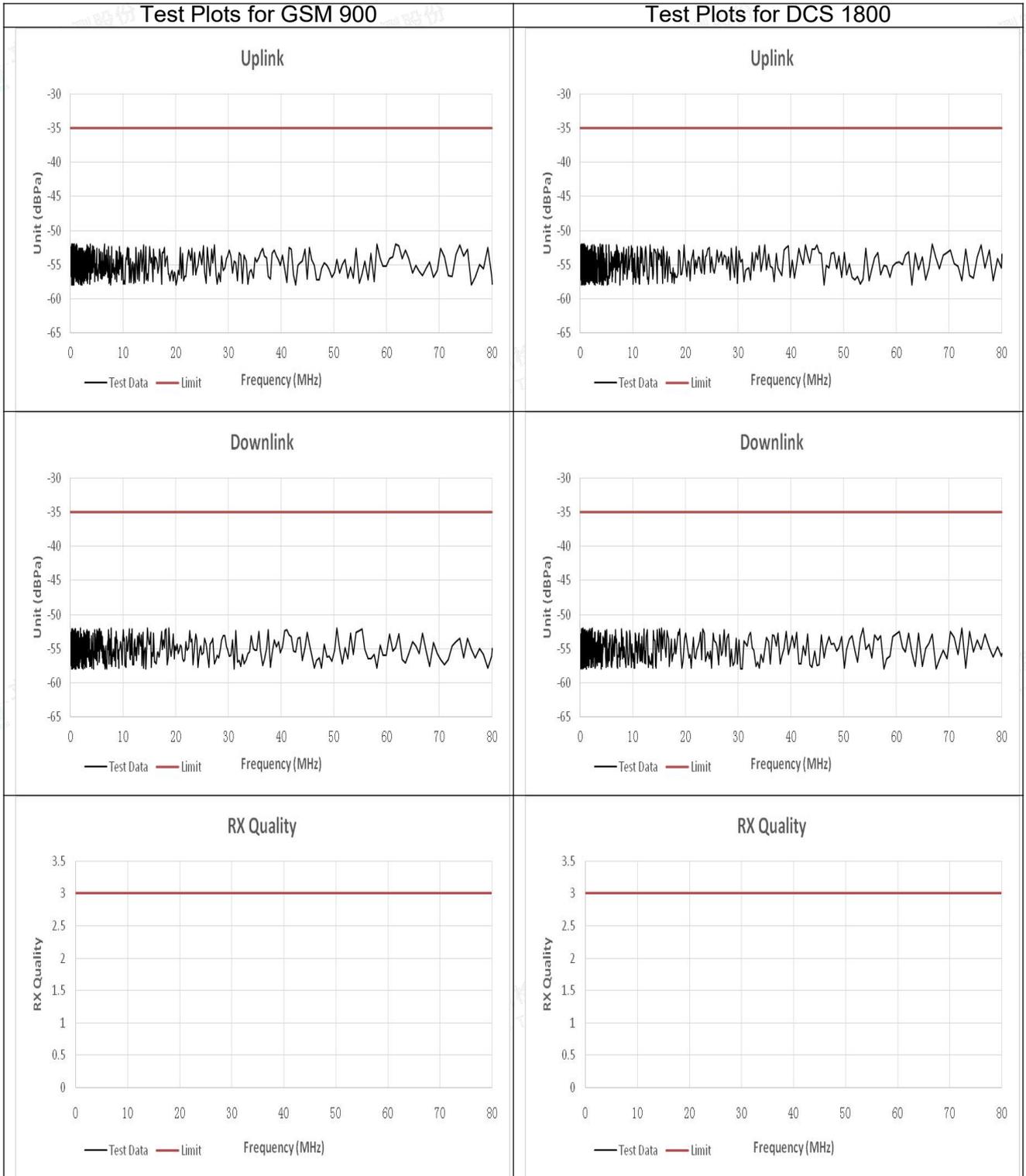


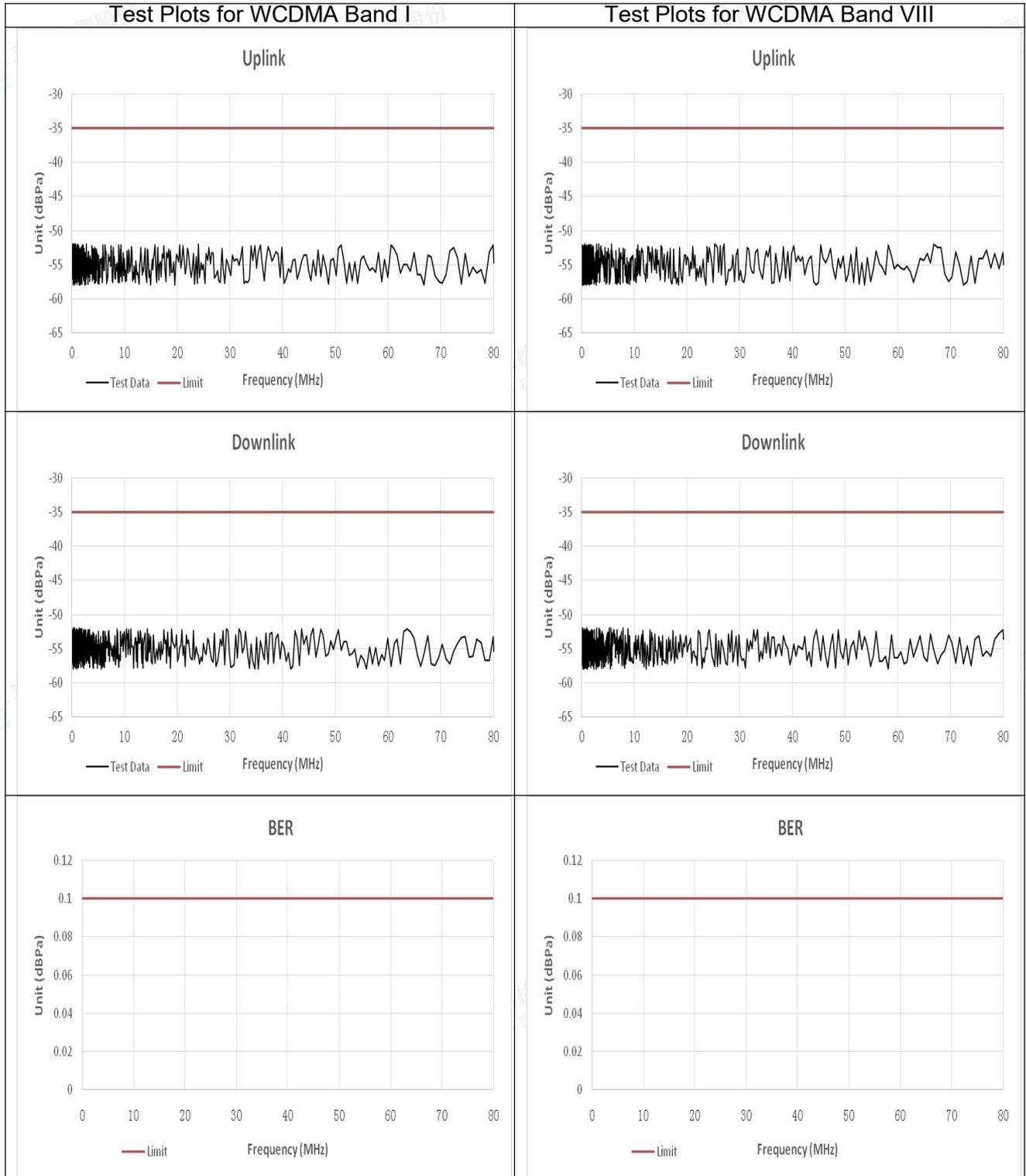
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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

During the test, the Maximum Bit Error Ratio was less than 0.001

During the test, the Maximum Block Error Ratio was less than 0.01

For E-UTRA Band 1/3/7/8/20/28 (In the data transfer mode), the throughput is $\geq 95\%$ of the maximum throughput of the reference measurement channel as specified in annex C in TS 136 101 [13] with parameters specified in tables 7.3.1-1 and 7.3.1-2 in TS 136 101 [13] during the test sequence.





A.10 Surges, Line to Line and Line to Ground

Surge Immunity Test Result			
Standard	<input type="checkbox"/> IEC 61000-4-5 <input checked="" type="checkbox"/> EN 61000-4-5		
Applicant	Shenzhen Huafului Technology Co., Ltd.		
EUT	Smartphone	Temperature	24.3°C
M/N	KINGKONG 8	Humidity	52.2%
Test Mode	TM1-TM33	Criterion	B
Test Engineer	Taylor Hu		

TEST RESULT OF TM1-TM22						
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Observation	Result (Pass/Fail)
L-N	+	0°, 90°, 180°, 270°	5	1.0	TT, TR	Pass
	-	0°, 90°, 180°, 270°	5	1.0	TT, TR	Pass

TEST RESULT OF TM23-TM27						
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Observation	Result (Pass/Fail)
L-N	+	0°, 90°, 180°, 270°	5	1.0	TR	Pass
	-	0°, 90°, 180°, 270°	5	1.0	TR	Pass

TEST RESULT OF TM28-TM33						
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result (Pass/Fail)	
L-N	+	0°, 90°, 180°, 270°	5	1.0	Pass	
	-	0°, 90°, 180°, 270°	5	1.0	Pass	



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**A.11 Voltage Dips/Interruptions Immunity Test**

Voltage Dips And Interruptions Test Results			
Standard	<input type="checkbox"/> IEC 61000-4-11 <input checked="" type="checkbox"/> EN 61000-4-11		
Applicant	Shenzhen Huaafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.3°C
M/N	KINGKONG 8	Humidity	54.5%
Test Mode	TM1-TM33	Criterion	B&C
Test Engineer	Taylor Hu		

TEST RESULT OF TM1-TM22				
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Observation	Result (Pass/Fail)
0	100	0.5P	TT, TR	Pass
0	100	1P	TT, TR	Pass
70	30	25P	TT, TR	Pass
0	100	250P	TT, TR	Pass

TEST RESULT OF TM23-TM27				
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Observation	Result (Pass/Fail)
0	100	0.5P	TR	Pass
0	100	1P	TR	Pass
70	30	25P	TR	Pass
0	100	250P	TR	Pass

TEST RESULT OF TM28-TM33			
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Result (Pass/Fail)
0	100	0.5P	Pass
0	100	1P	Pass
70	30	25P	Pass
0	100	250P	Pass



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