



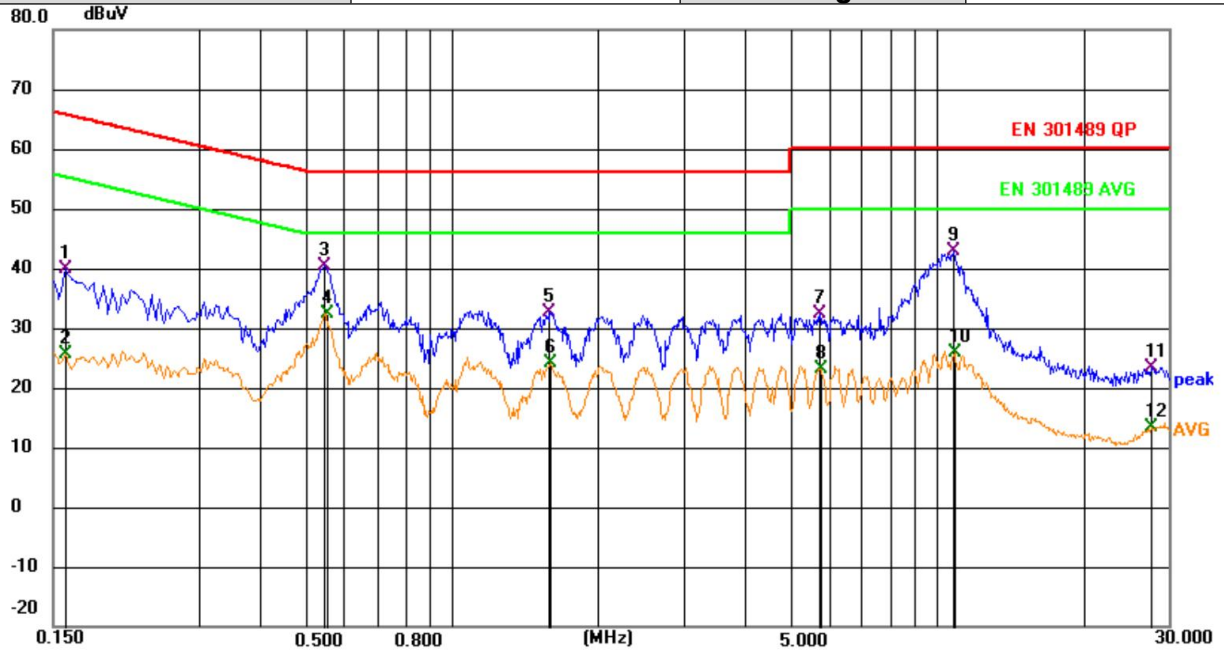
## Appendix A for Emission and Immunity test results

Product Name: Tablet

Test Model: TAB 50

### A.1 Line Conducted Emission

Test Model	TAB 50	Test Mode	TM1
Environmental Conditions	23.9°C, 53.7% RH	Test Engineer	Nick Peng
Pol.	Line	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1590	20.13	19.63	39.76	65.52	-25.76	QP	
2		0.1590	5.89	19.63	25.52	55.52	-30.00	AVG	
3		0.5460	20.74	19.65	40.39	56.00	-15.61	QP	
4	*	0.5505	12.76	19.65	32.41	46.00	-13.59	AVG	
5		1.5900	13.04	19.67	32.71	56.00	-23.29	QP	
6		1.5945	4.51	19.67	24.18	46.00	-21.82	AVG	
7		5.7301	12.67	19.70	32.37	60.00	-27.63	QP	
8		5.7480	3.54	19.70	23.24	50.00	-26.76	AVG	
9		10.8420	23.09	19.84	42.93	60.00	-17.07	QP	
10		10.8601	6.05	19.85	25.90	50.00	-24.10	AVG	
11		27.5821	3.23	20.05	23.28	60.00	-36.72	QP	
12		27.5821	-6.76	20.05	13.29	50.00	-36.71	AVG	



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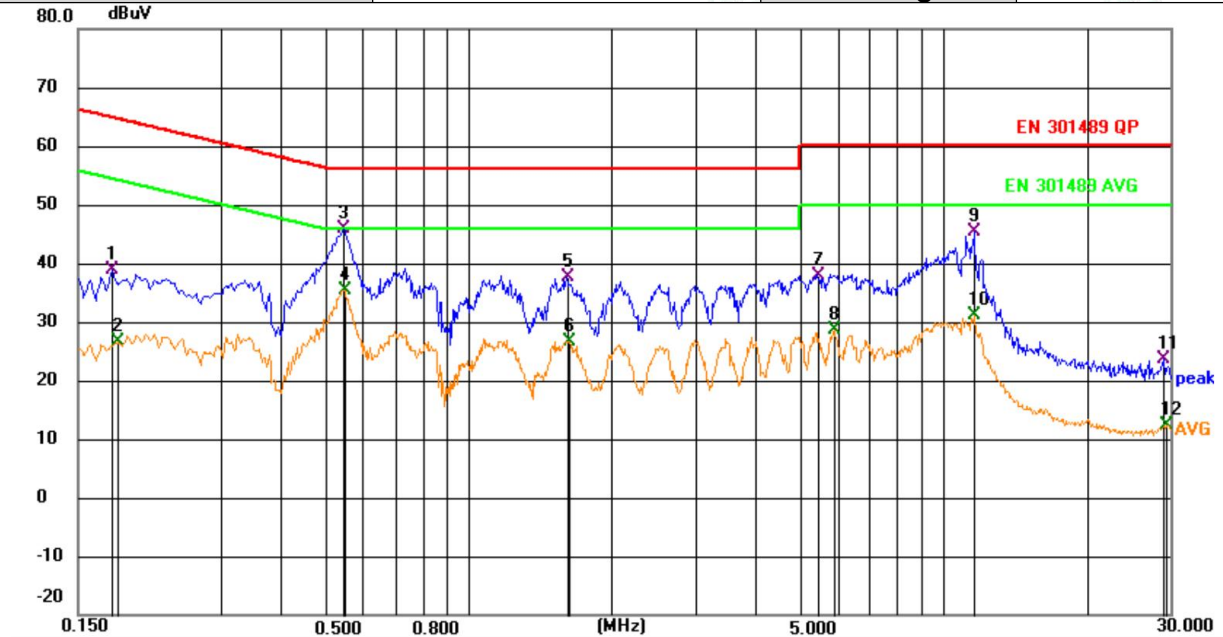
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Test Model	TAB 50	Test Mode	TM1
Environmental Conditions	23.9°C, 53.7% RH	Test Engineer	Nick Peng
Pol.	Neutral	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1771	19.16	19.63	38.79	64.62	-25.83	QP	
2		0.1816	6.89	19.63	26.52	54.41	-27.89	AVG	
3	*	0.5460	26.33	19.65	45.98	56.00	-10.02	QP	
4		0.5464	15.66	19.65	35.31	46.00	-10.69	AVG	
5		1.6035	17.96	19.67	37.63	56.00	-18.37	QP	
6		1.6215	7.01	19.67	26.68	46.00	-19.32	AVG	
7		5.4331	18.20	19.80	38.00	60.00	-22.00	QP	
8		5.8786	8.72	19.80	28.52	50.00	-21.48	AVG	
9		11.6206	25.52	19.84	45.36	60.00	-14.64	QP	
10		11.6431	11.32	19.84	31.16	50.00	-18.84	AVG	
11		29.1841	3.45	20.09	23.54	60.00	-36.46	QP	
12		29.4991	-7.65	20.10	12.45	50.00	-37.55	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



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### A.3 Radiated Disturbance

Test Model	TAB 50	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Nick Peng
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	40.9879	36.27	-17.41	18.86	40.93	-22.07	QP
2	82.9384	45.46	-19.59	25.87	38.51	-12.64	QP
3	190.4050	50.56	-18.30	32.26	35.65	-3.39	QP
4	298.2681	43.18	-15.61	27.57	42.00	-14.43	QP
5	501.1788	32.16	-13.14	19.02	42.00	-22.98	QP
6	890.7277	31.88	-8.45	23.43	42.00	-18.57	QP



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Test Model	TAB 50	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Nick Peng
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	30.5306	32.64	-18.39	14.25	41.94	-27.69	QP
2	78.9652	45.88	-19.84	26.04	38.67	-12.63	QP
3	200.6880	49.56	-17.37	32.19	35.47	-3.28	QP
4	294.1137	50.15	-15.56	34.59	42.00	-7.41	QP
5	455.9058	40.70	-14.25	26.45	42.00	-15.55	QP
6	890.7277	31.72	-8.45	23.27	42.00	-18.73	QP

Note: Margin= Reading Level + Correct Factor – Limit

Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor



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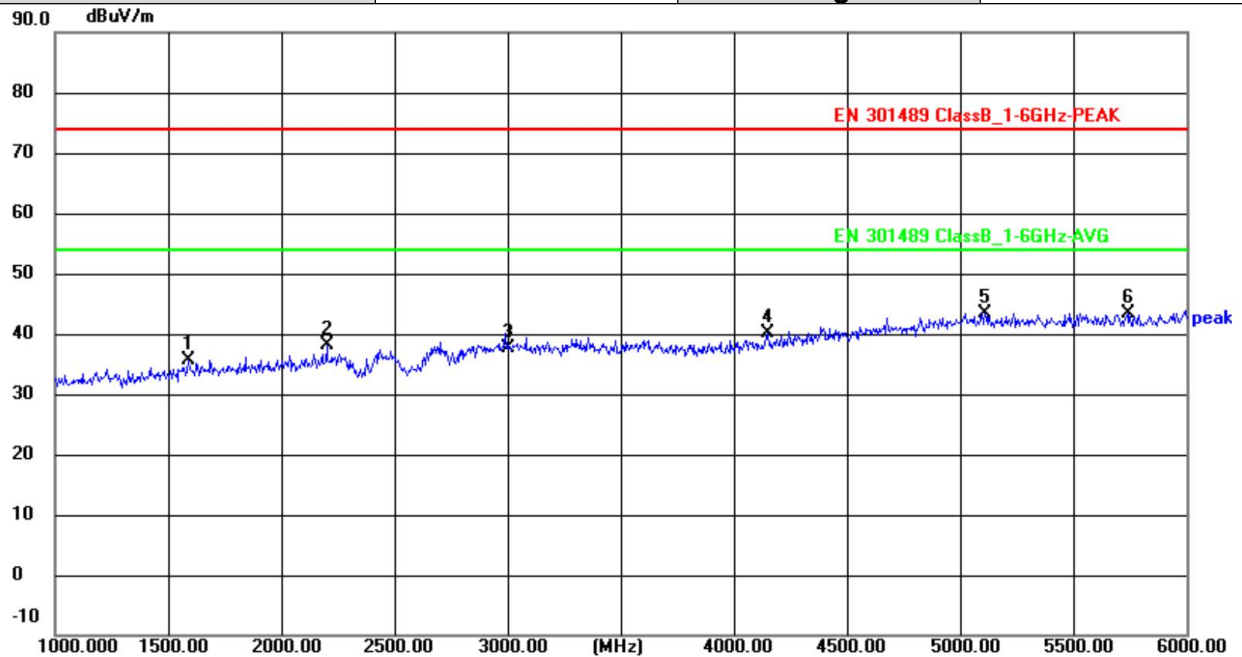
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Test Model	TAB 50	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.9℃, 52.1% RH	Test Engineer	Nick Peng
Pol.	Vertical	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1590.000	50.14	-14.63	35.51	74.00	-38.49	peak
2	2200.000	50.56	-12.40	38.16	74.00	-35.84	peak
3	3000.000	47.30	-9.59	37.71	74.00	-36.29	peak
4	4150.000	48.07	-7.95	40.12	74.00	-33.88	peak
5	5110.000	47.41	-3.92	43.49	74.00	-30.51	peak
6	5740.000	46.81	-3.44	43.37	74.00	-30.63	peak



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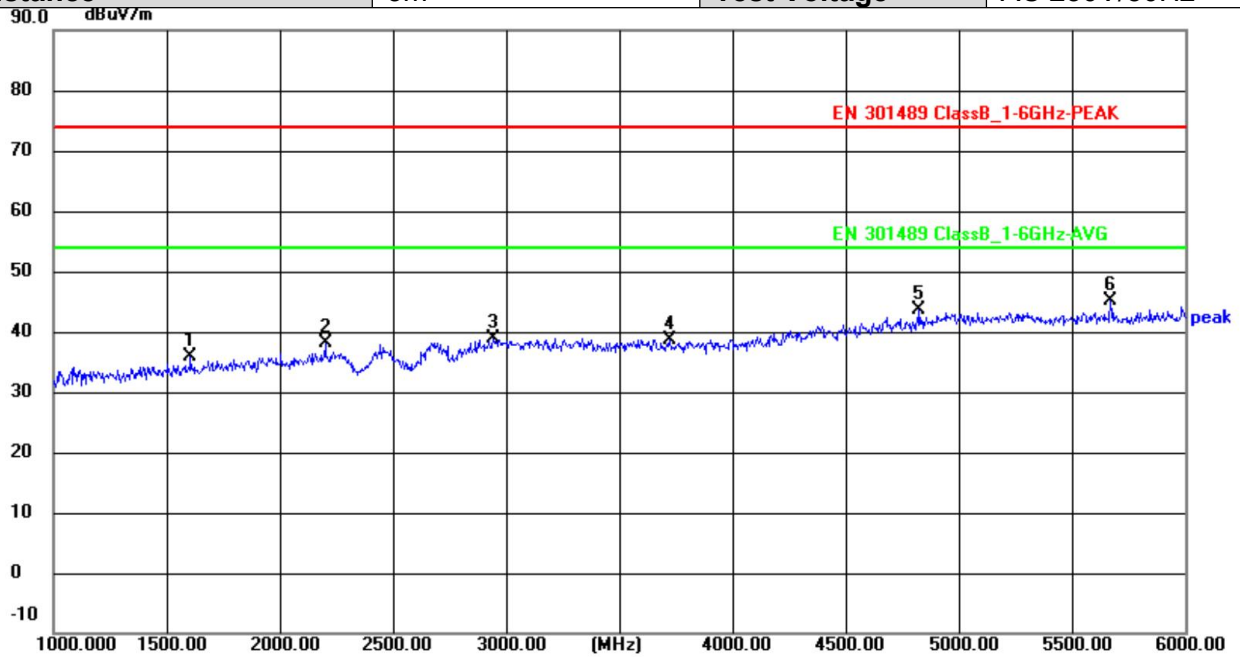
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Test Model	TAB 50	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.9°C, 52.1% RH	Test Engineer	Nick Peng
Pol.	Horizontal	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1605.000	50.47	-14.60	35.87	74.00	-38.13	peak
2	2200.000	50.45	-12.40	38.05	74.00	-35.95	peak
3	2945.000	48.64	-9.78	38.86	74.00	-35.14	peak
4	3720.000	47.78	-9.03	38.75	74.00	-35.25	peak
5	4825.000	48.59	-4.98	43.61	74.00	-30.39	peak
6	5670.000	48.46	-3.37	45.09	74.00	-28.91	peak

Note:

- 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.
- Measurements above show only up to 6 maximum emissions noted.
- 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.
- Factor = Antenna Factor + Cable Loss + Amplifier Factor  
Emission Level = Reading level + Factor  
Margin = Emission Level - Limit



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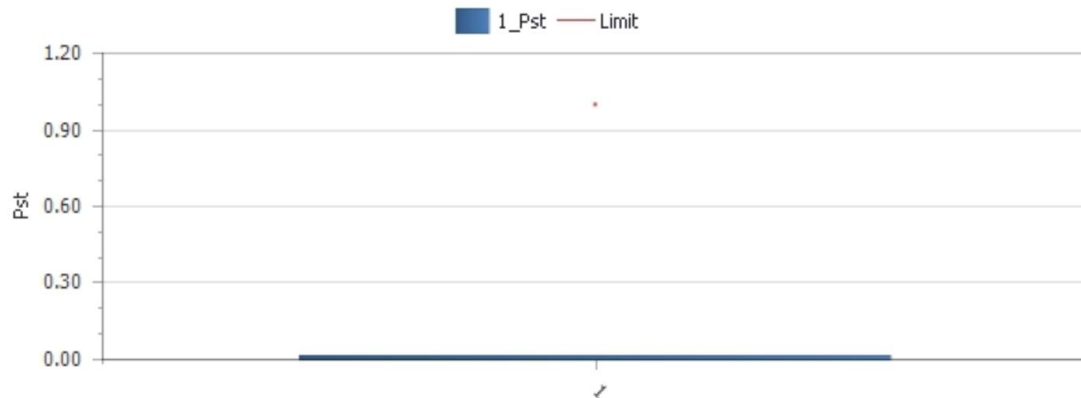
## A.4 Harmonic Current Emissions

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

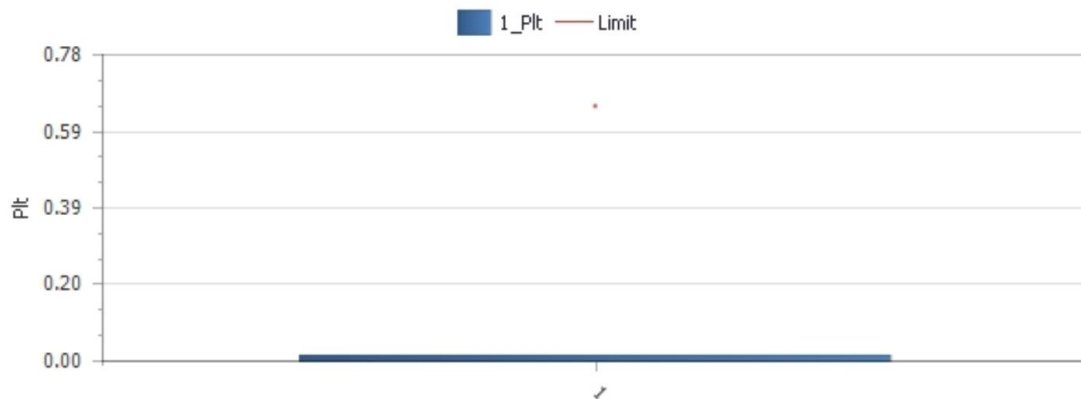
## A.5 Voltage Fluctuation and Flicker

Test Model	TAB 50	Test Mode	TM1
Test Engineer	Nick Peng	Test Voltage	AC 230V/50Hz
Environmental Conditions	23.8°C, 52.7% RH		

Pst and Limit



Plt and Limit



Relevant Parameter and Judgement During Test Period

Vrms at the end of test(V)	229.82			
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	0.015	Test Limit	1.000	Pass
Plt	0.015	Test Limit	0.650	Pass



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

<b>Test Model</b>	TAB 50	<b>Test Engineer</b>	Nick Peng
<b>Environmental Conditions</b>	23.3°C, 52.5% RH	<b>Test Voltage</b>	AC 230V/50Hz

**TM1-TM17 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, Top, Bottom	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
GSM/GPRS/EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
DCS/GPRS/EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
DCS/GPRS/EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
WCDMA/ HSDPA/HSUPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
WCDMA HSDPA/HSUPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
WCDMA/ HSDPA/HSUPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
WCDMA HSDPA/HSUPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 1	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back,	Pass



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Traffic					Top, Bottom	
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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**TM18-TM34 Test Result:**

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



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Bluetooth	E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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**TM35-TM51 Test Result:**

EUT Working Mode		Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
2.4G WIFI	GSM/GPRS /EGPRS 900 MHz, Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	GSM/GPRS /EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	WCDMA/ HSDPA/HS UPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	WCDMA HSDPA/HS UPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	WCDMA/ HSDPA/HS UPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	WCDMA HSDPA/HS UPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass



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2.4G WIFI	E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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**TM52-TM68 Test Result:**

EUT Working Mode		Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
5.2G WIFI	GSM/GPRS /EGPRS 900 MHz, Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	GSM/GPRS /EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	WCDMA/ HSDPA/HS UPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	WCDMA HSDPA/HS UPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	WCDMA/ HSDPA/HS UPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	WCDMA HSDPA/HS UPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass



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						Top, Bottom	
5.2G WIFI	E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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**TM69-TM85 Test Result:**

EUT Working Mode		Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
5.8G WIFI	GSM/GPRS /EGPRS 900 MHz, Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	GSM/GPRS /EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	WCDMA/ HSDPA/HS UPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	WCDMA HSDPA/HS UPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	WCDMA/ HSDPA/HS UPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	WCDMA HSDPA/HS UPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass



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						Top, Bottom	
5.8G WIFI	E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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**TM86-TM89 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, Top, Bottom	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass



**TM90-TM92 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, Top, Bottom	Pass
	Horizontal	80-6000	3	CR	Front, Right, Left, Back, Top, Bottom	Pass
	Vertical	80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test)	3	CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test)	3	CR	Front, Right, Left, Back, Top, Bottom	Pass

**TM93-TM98 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, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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**Special conditions for EMC immunity tests**

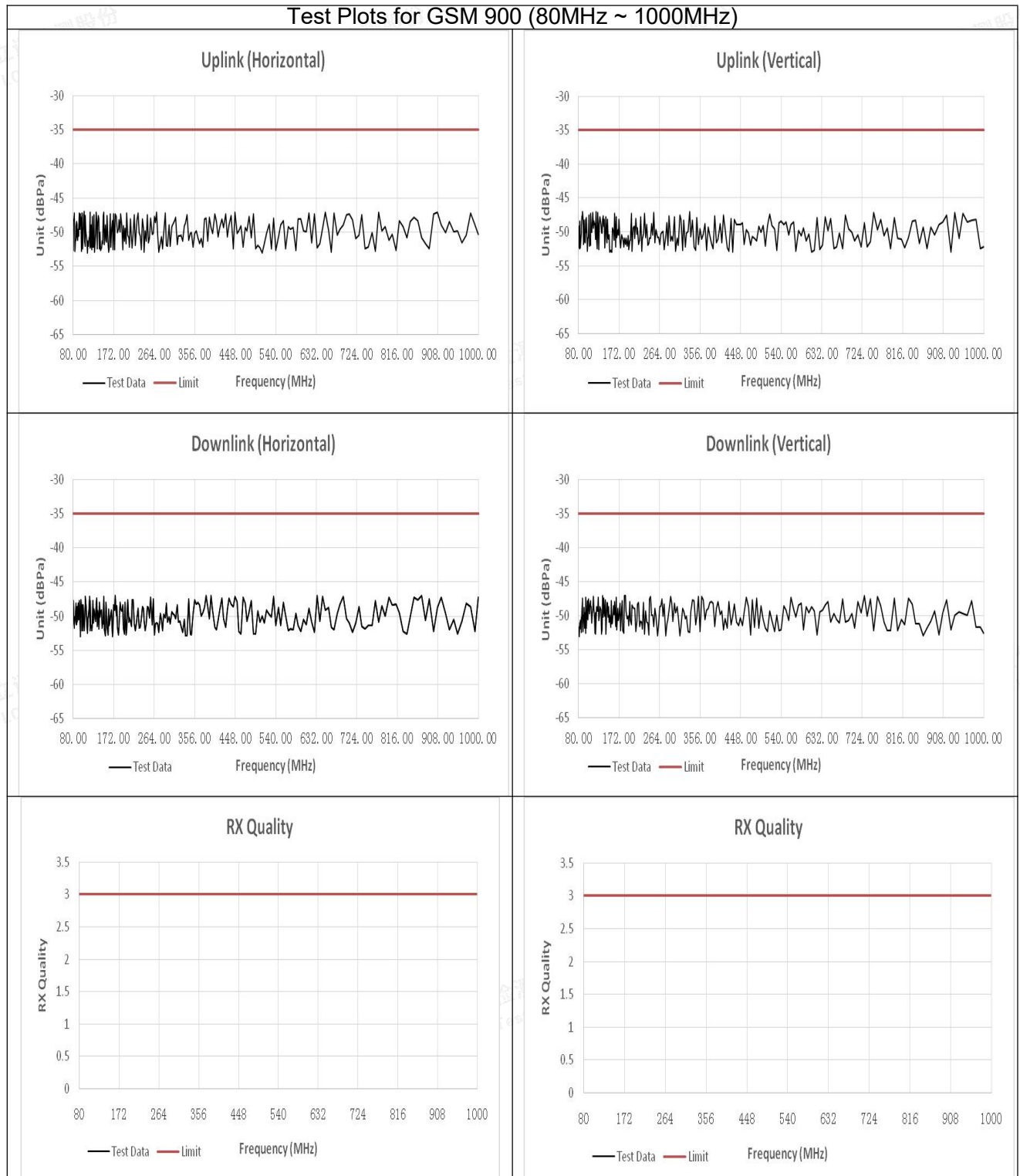
EUT Operating Mode		Polarity	Conclusion
GSM 900	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	RX Quality	H	Pass
		V	Pass
DCS 1800	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	RX Quality	H	Pass
		V	Pass
WCDMA HSDPA/HSUPA Band I 2100MHz	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	BER	H	Pass
		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 GSM 900 (80MHz ~ 1000MHz)

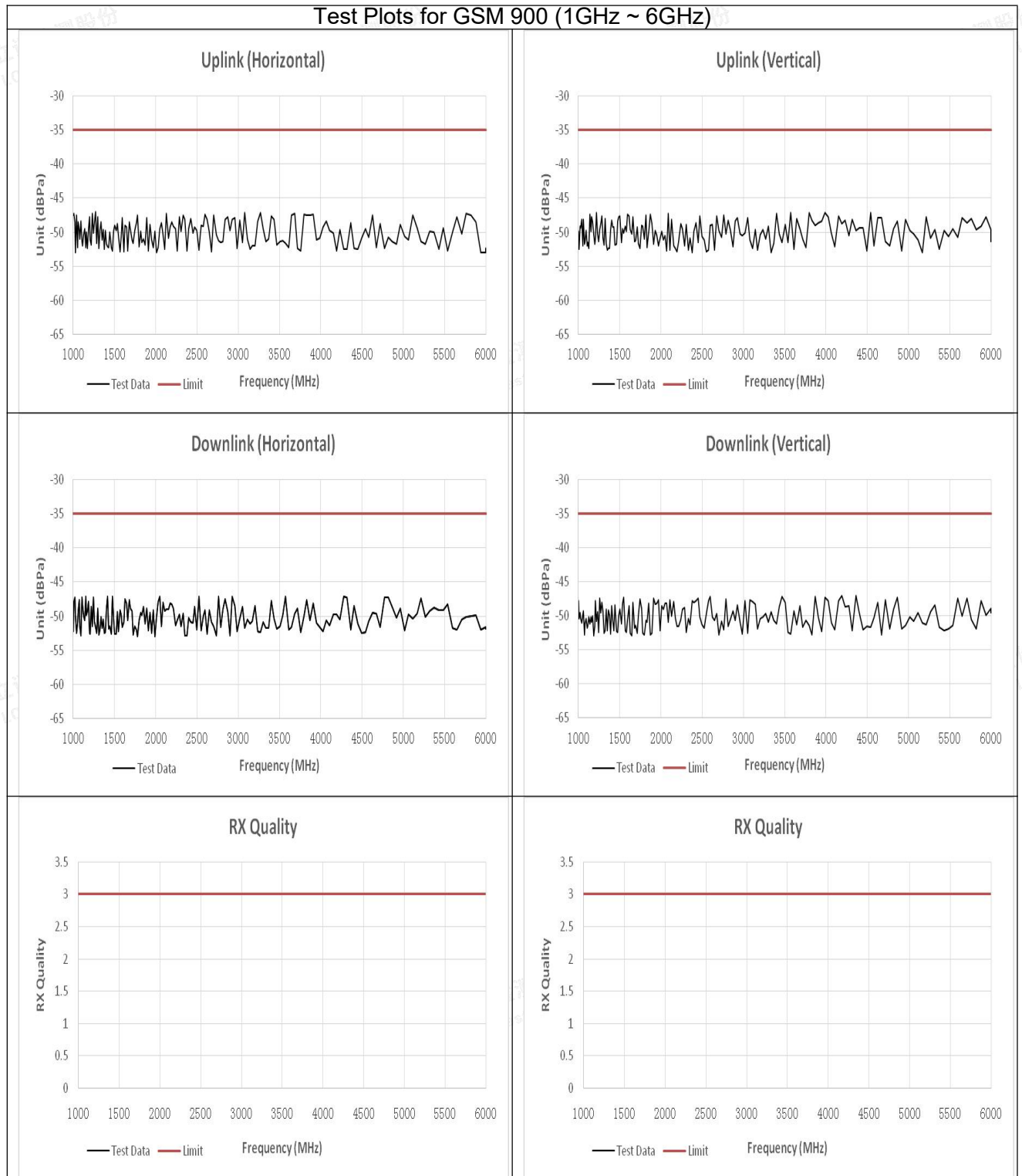


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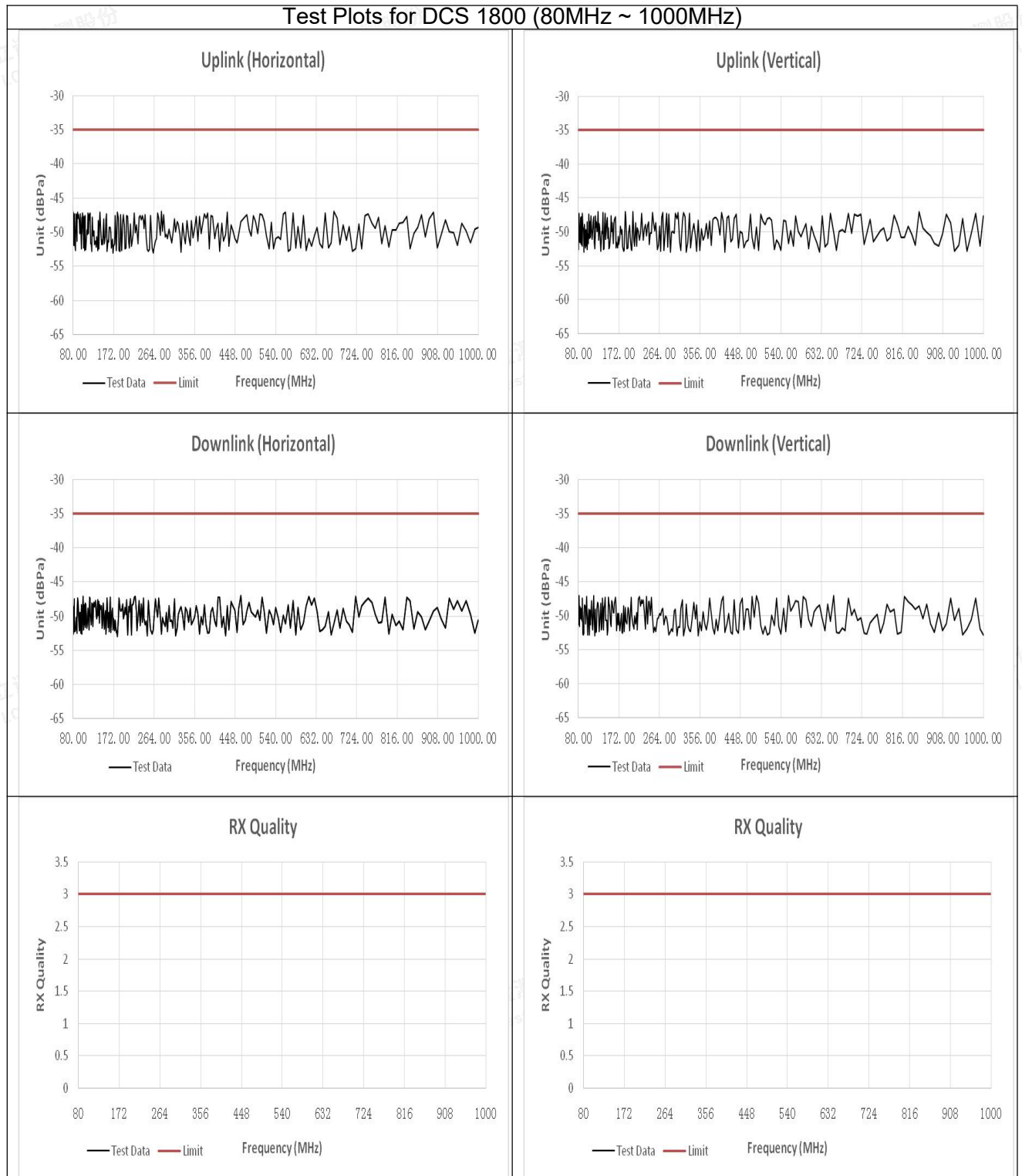


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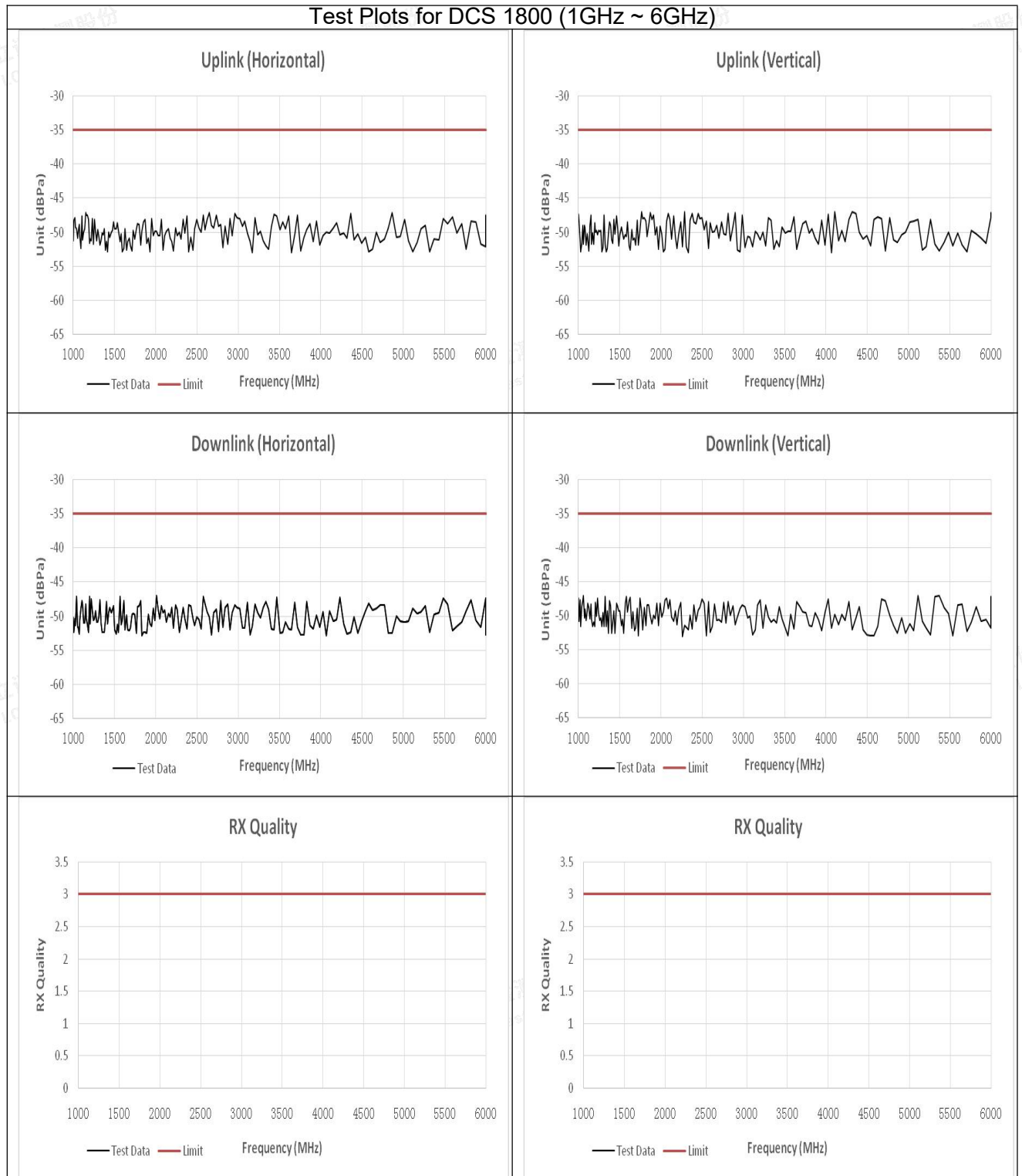


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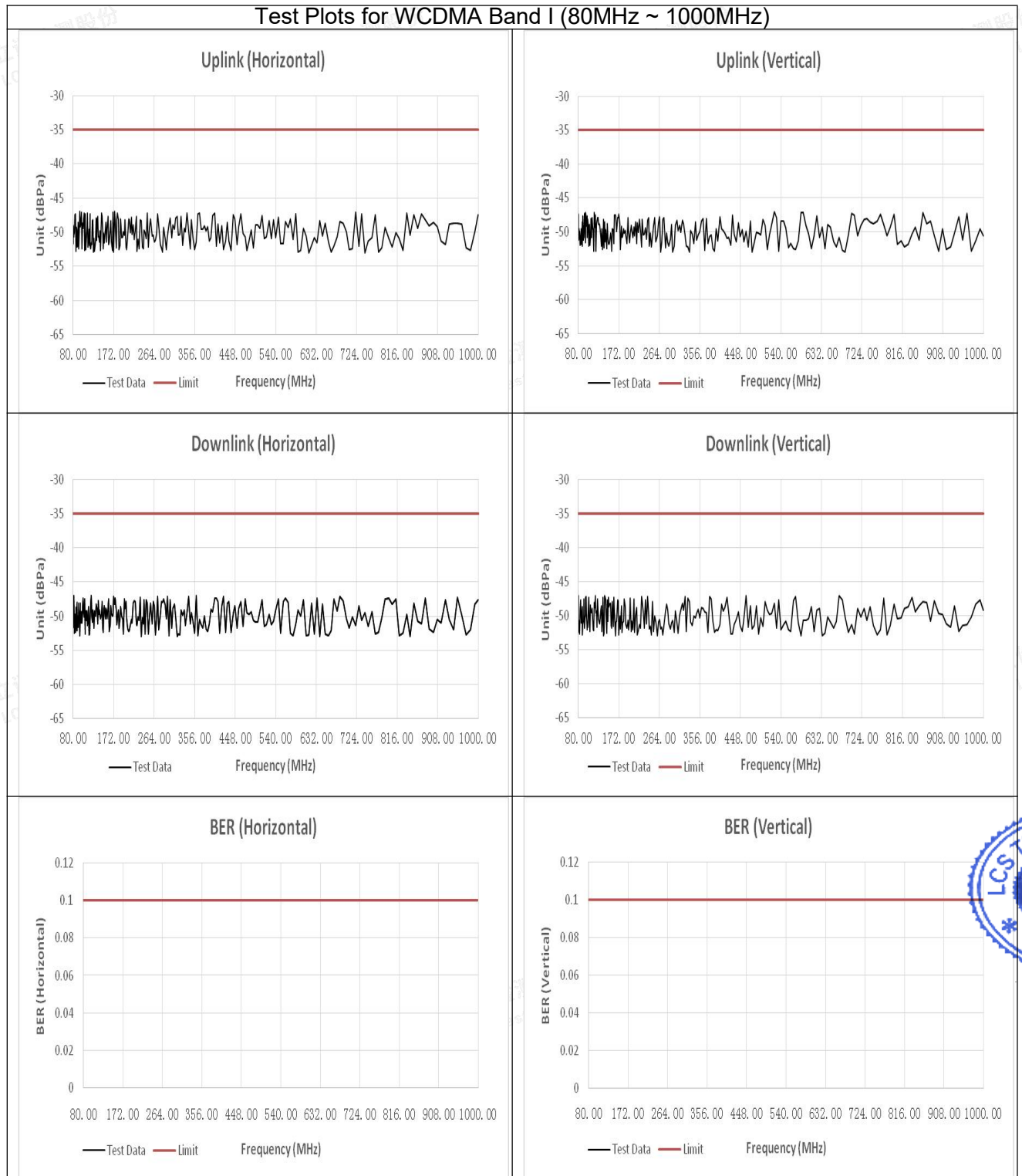
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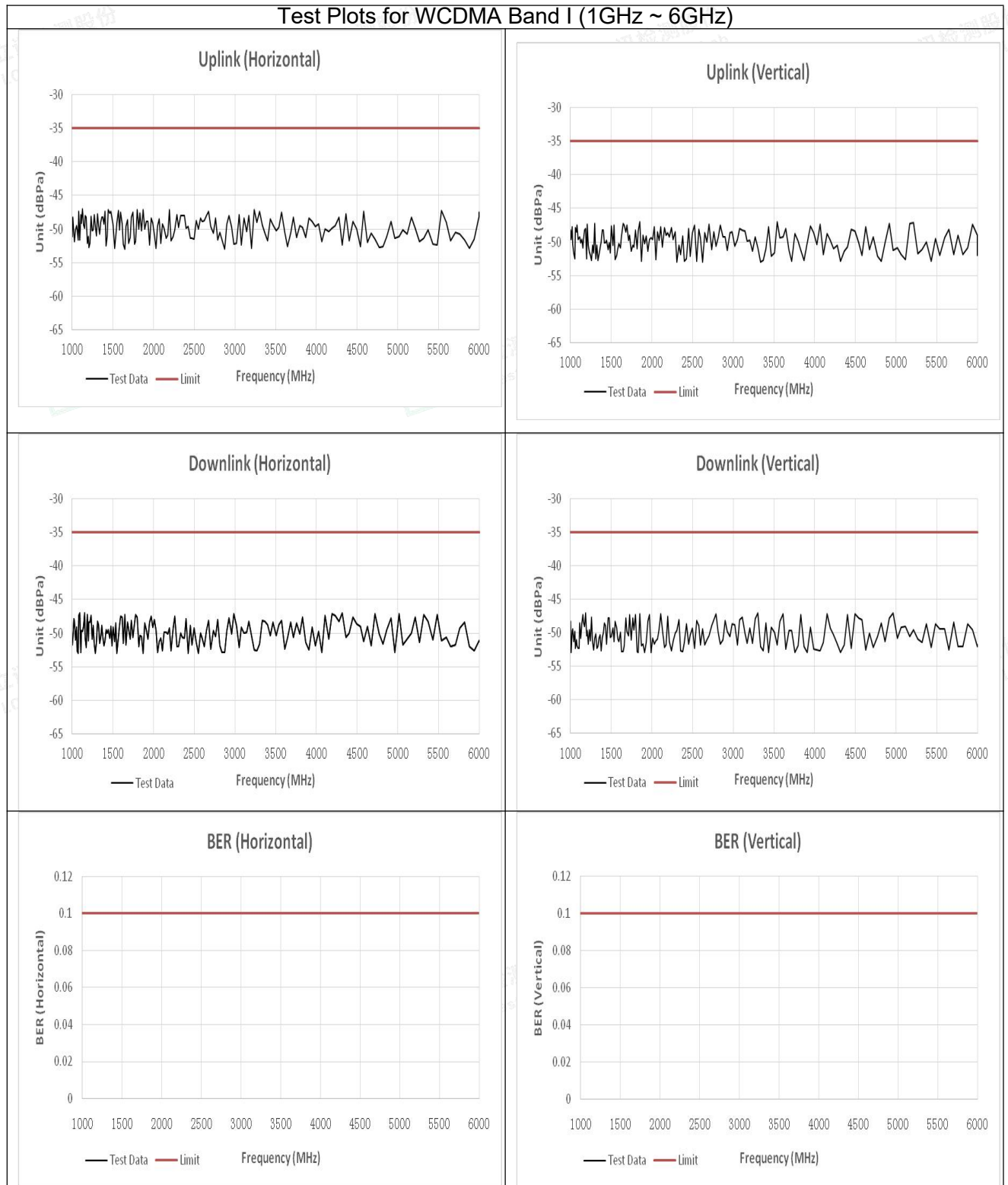


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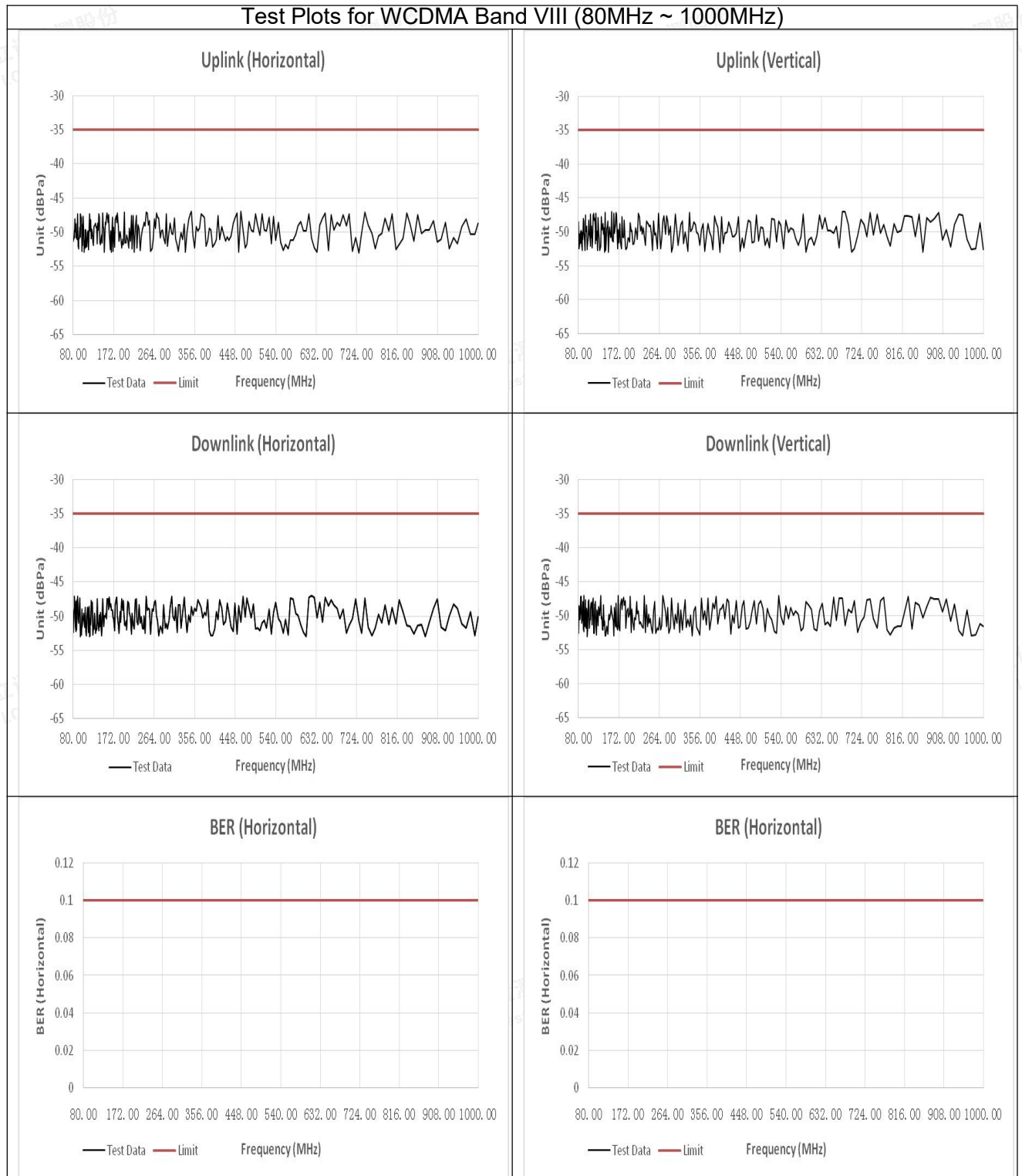
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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

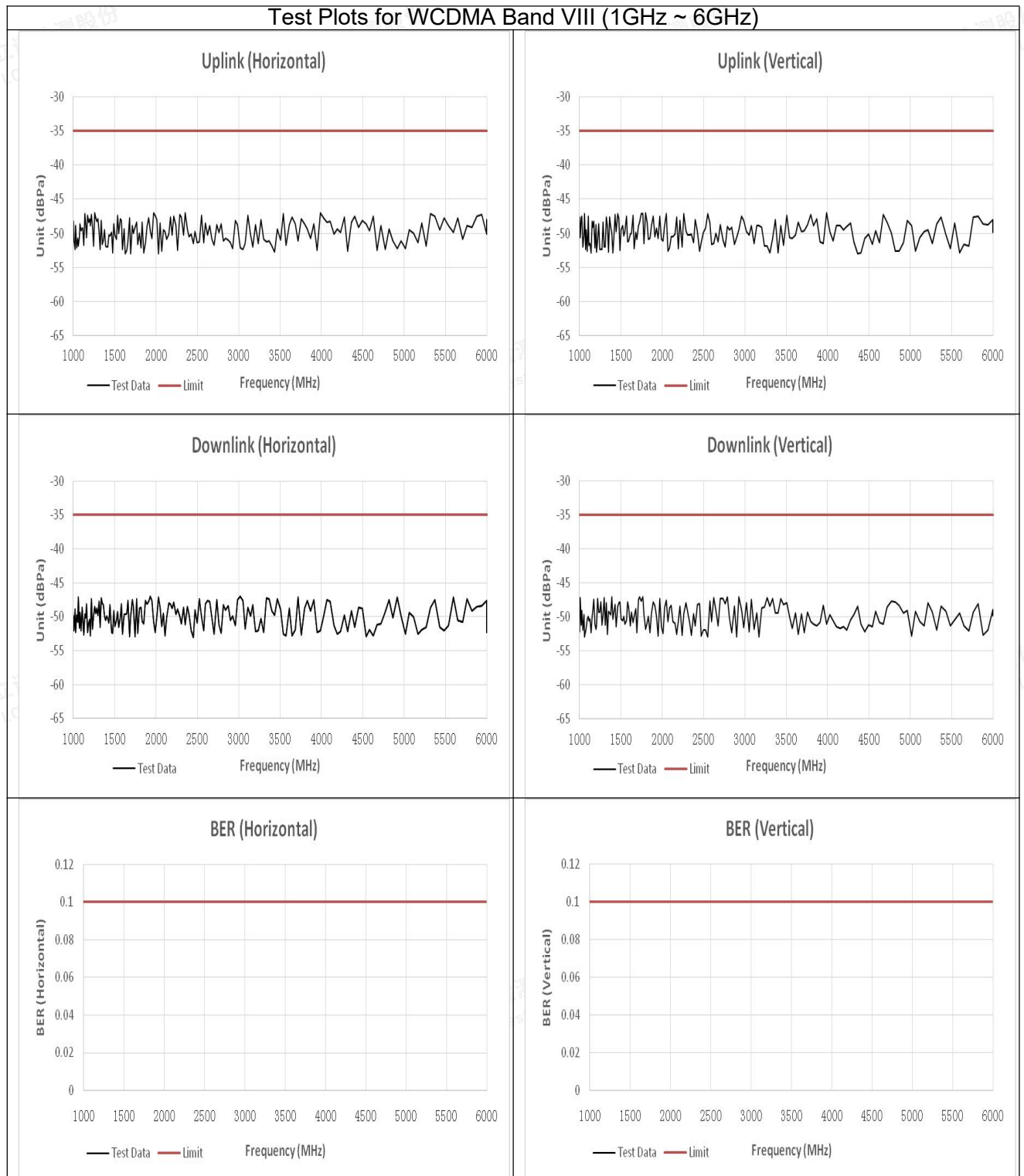


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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

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 (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.

For equipment that supports a PER or FER, the minimum performance level shall be PER or FER less than or equal to 10%.



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## A.7 Electrostatic Discharge

### Electrostatic Discharge Test Results

<b>Standard</b>	<input type="checkbox"/> IEC 61000-4-2 <input checked="" type="checkbox"/> EN 61000-4-2		
<b>Applicant</b>	Shenzhen Huafurui Technology Co., Ltd.		
<b>EUT</b>	Tablet	<b>Temperature</b>	22.7°C
<b>M/N</b>	TAB 50	<b>Humidity</b>	53.2%
<b>Criterion</b>	B	<b>Pressure</b>	1021mbar
<b>Test Mode</b>	TM1-TM98	<b>Test Engineer</b>	Nick Peng
<b>TEST RESULT OF TM1-TM85</b>			
<b>Test Voltage</b>	<b>Coupling</b>	<b>Observation</b>	<b>Result (Pass/Fail)</b>
±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
<b>TEST RESULT OF TM86-TM89</b>			
<b>Test Voltage</b>	<b>Coupling</b>	<b>Observation</b>	<b>Result (Pass/Fail)</b>
±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
<b>TEST RESULT OF TM90-TM92</b>			
<b>Test Voltage</b>	<b>Coupling</b>	<b>Observation</b>	<b>Result (Pass/Fail)</b>
±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



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TEST RESULT OF TM93-TM98		
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.		



**A.8 Electrical Fast Transient Immunity****Electrical Fast Transient/Burst Test Results**

<b>Standard</b>	<input type="checkbox"/> IEC 61000-4-4 <input checked="" type="checkbox"/> EN 61000-4-4		
<b>Applicant</b>	Shenzhen Huafurui Technology Co., Ltd.		
<b>EUT</b>	Tablet	<b>Temperature</b>	22.3℃
<b>M/N</b>	TAB 50	<b>Humidity</b>	52.2%
<b>Test Mode</b>	TM1-TM98	<b>Criterion</b>	B
<b>Test Engineer</b>	Nick Peng		

**TEST RESULT OF TM1-TM85**

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 TM86-TM89**

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 TM90-TM92**

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



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TEST RESULT OF TM93-TM98			
Line	Test Voltage	Polarity	Result (Pass/Fail)
L	1KV	+/-	Pass
N	1KV	+/-	Pass
L-N	1KV	+/-	Pass

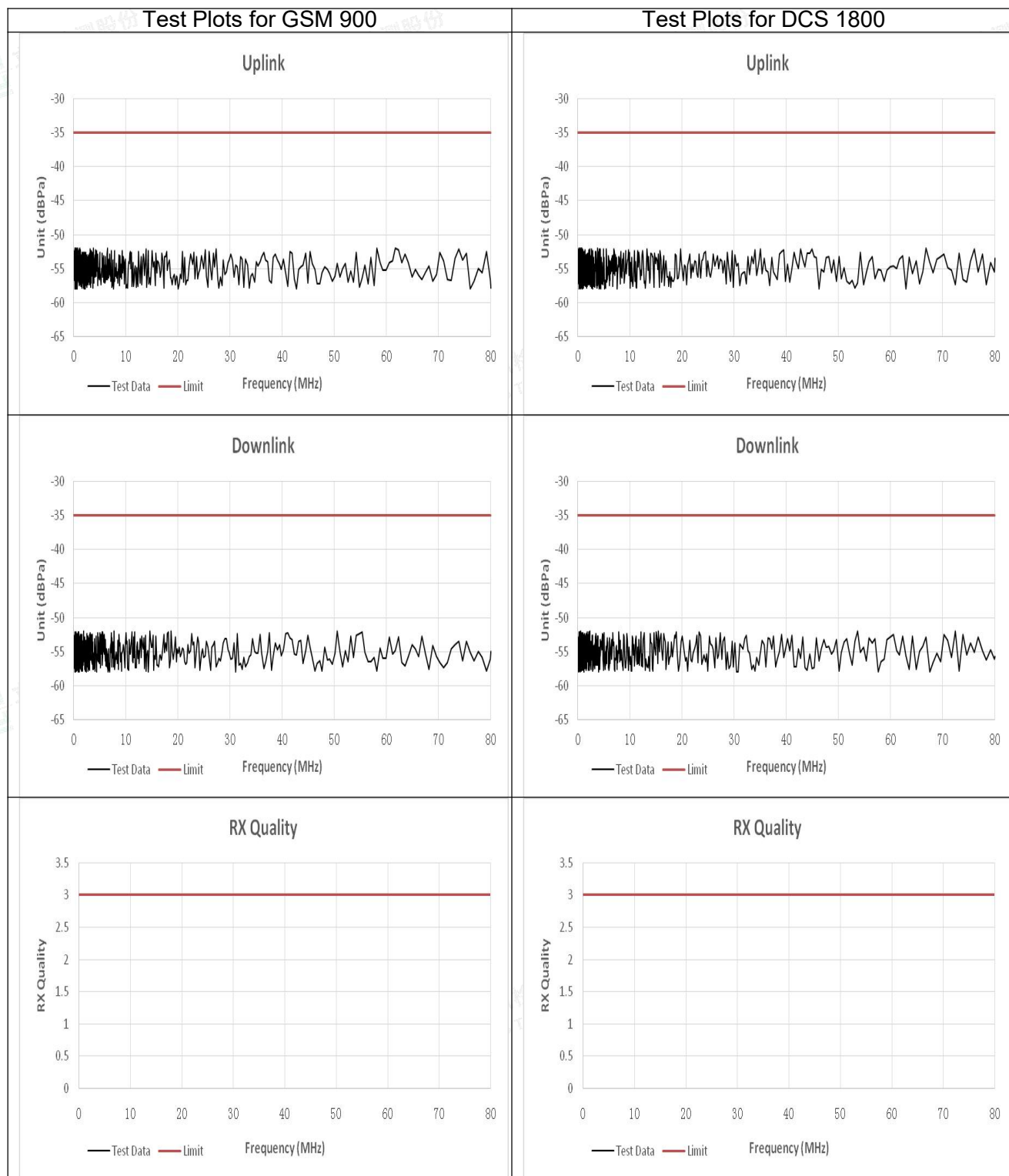


**A.9 RF Common Mode**

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	Tablet	Temperature	24.3°C
M/N	TAB 50	Humidity	53.5%
Test Mode	TM1-TM98	Criterion	A
Test Engineer	Nick Peng		

TEST RESULT OF TM1-TM85				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CT, CR	Pass
TEST RESULT OF TM86-TM89				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CT, CR	Pass
TEST RESULT OF TM90-TM92				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CR	Pass
TEST RESULT OF TM93-TM98				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Result (Pass/Fail)	
0.15 ~ 80	3V	AC Mains	Pass	
Remark: 1. Modulation Signal:1kHz 80% AM				





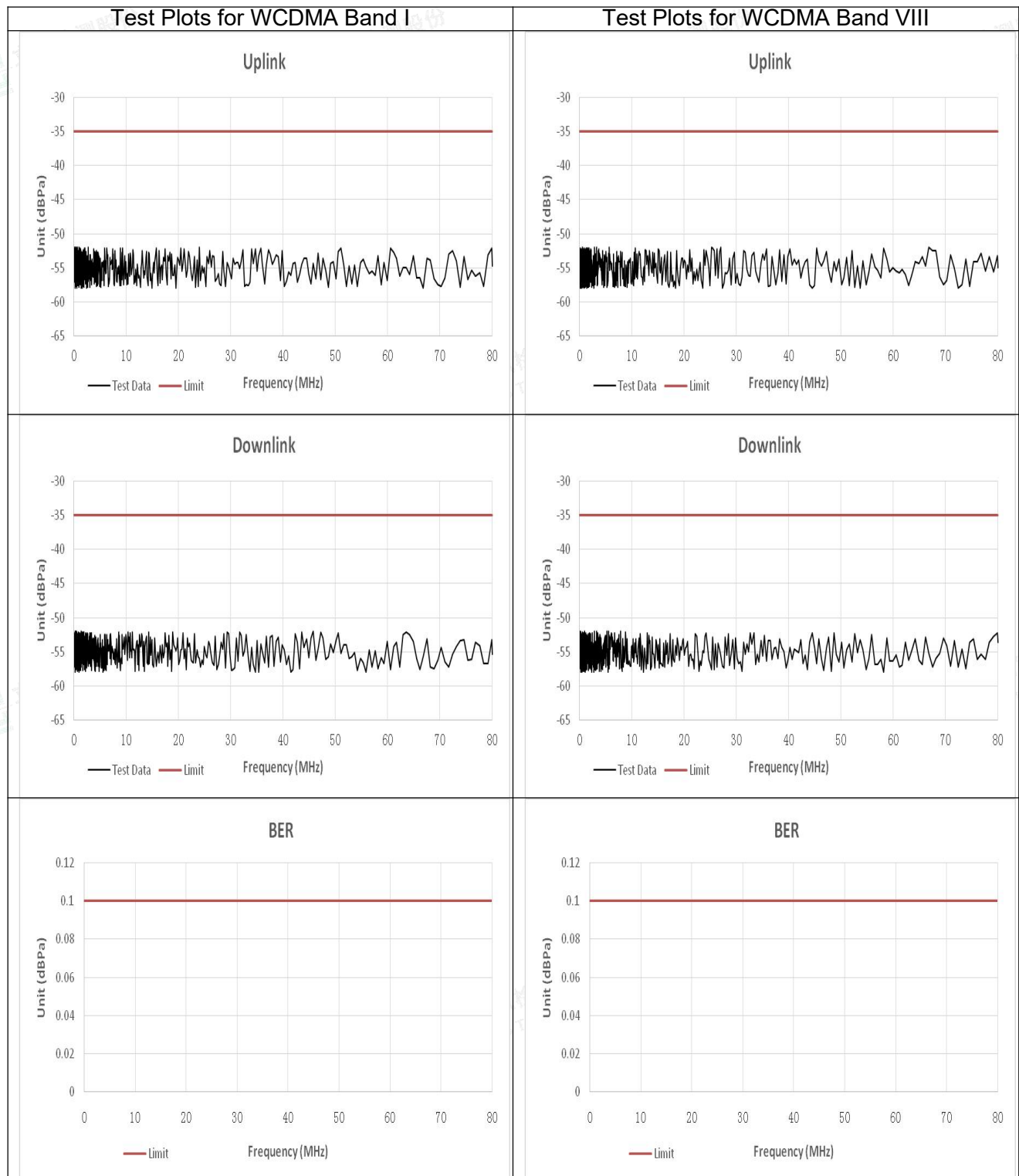
Shenzhen LCS Compliance Testing Laboratory Ltd.

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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 (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.

For equipment that supports a PER or FER, the minimum performance level shall be PER or FER less than or equal to 10%.



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**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	Tablet	Temperature	24.4℃
M/N	TAB 50	Humidity	52.3%
Test Mode	TM1-TM98	Criterion	B
Test Engineer	Nick Peng		

**TEST RESULT OF TM1-TM85**

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 TM86-TM89**

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 TM90-TM92**

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



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TEST RESULT OF TM93-TM98					
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



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

<b>Standard</b>	<input type="checkbox"/> IEC 61000-4-11 <input checked="" type="checkbox"/> EN 61000-4-11		
<b>Applicant</b>	Shenzhen Huafurui Technology Co., Ltd.		
<b>EUT</b>	Tablet	<b>Temperature</b>	23.4℃
<b>M/N</b>	TAB 50	<b>Humidity</b>	54.6%
<b>Test Mode</b>	TM1-TM98	<b>Criterion</b>	B&C
<b>Test Engineer</b>	Nick Peng		

**TEST RESULT OF TM1-TM85**

Test Level % U <sub>T</sub>	Voltage Dips & Short Interruptions % U <sub>T</sub>	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 TM86-TM89**

Test Level % U <sub>T</sub>	Voltage Dips & Short Interruptions % U <sub>T</sub>	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 TM90-TM92**

Test Level % U <sub>T</sub>	Voltage Dips & Short Interruptions % U <sub>T</sub>	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



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TEST RESULT OF TM93-TM98			
Test Level % U <sub>T</sub>	Voltage Dips & Short Interruptions % U <sub>T</sub>	Duration (in periods)	Result (Pass/Fail)
0	100	0.5P	Pass
0	100	1P	Pass
70	30	25P	Pass
0	100	250P	Pass

