

WCDMA BAND V-Low channel								
Frequency (MHz)	ERP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1652.8	-45.22	-13	-32.22	-50.39	3.33	8.5	Horizontal	Pass
2479.2	-50.9	-13	-37.9	-57.9	3.4	10.4	Horizontal	Pass
3305.6	-47.93	-13	-34.93	-56.44	2.99	11.5	Horizontal	Pass
1652.8	-48.19	-13	-35.19	-53.36	3.33	8.5	Vertical	Pass
2479.2	-50.57	-13	-37.57	-57.57	3.4	10.4	Vertical	Pass
3305.6	-49.07	-13	-36.07	-57.58	2.99	11.5	Vertical	Pass

WCDMA BAND V-Middle channel								
Frequency (MHz)	ERP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1672.8	-54.54	-13	-41.54	-59.71	3.33	8.5	Horizontal	Pass
2509.2	-50.65	-13	-37.65	-58.04	3.21	10.6	Horizontal	Pass
3345.6	-47.92	-13	-34.92	-56.43	2.99	11.5	Horizontal	Pass
1672.8	-52.83	-13	-39.83	-58	3.33	8.5	Vertical	Pass
2509.2	-52.54	-13	-39.54	-59.93	3.21	10.6	Vertical	Pass
3345.6	-49.53	-13	-36.53	-58.04	2.99	11.5	Vertical	Pass

WCDMA BAND V-High channel								
Frequency (MHz)	ERP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1693.2	-53.14	-13	-40.14	-58.31	3.33	8.5	Horizontal	Pass
2539.8	-51.62	-13	-38.62	-59.01	3.21	10.6	Horizontal	Pass
3386.4	-48.38	-13	-35.38	-56.89	2.99	11.5	Horizontal	Pass
1693.2	-52.45	-13	-39.45	-57.62	3.33	8.5	Vertical	Pass
2539.8	-51.5	-13	-38.5	-58.89	3.21	10.6	Vertical	Pass
3386.4	-47.62	-13	-34.62	-56.13	2.99	11.5	Vertical	Pass



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WCDMA Band II-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3704.8	-46.21	-13	-33.21	-55.89	2.92	12.6	Horizontal	Pass
5557.2	-43.05	-13	-30.05	-53	3.15	13.1	Horizontal	Pass
7409.6	-42.73	-13	-29.73	-51.03	3.4	11.7	Horizontal	Pass
3704.8	-35.15	-13	-22.15	-44.83	2.92	12.6	Vertical	Pass
5557.2	-41.43	-13	-28.43	-51.38	3.15	13.1	Vertical	Pass
7409.6	-43.65	-13	-30.65	-51.95	3.4	11.7	Vertical	Pass

WCDMA Band II-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-40.78	-13	-27.78	-50.46	2.92	12.6	Horizontal	Pass
5640	-43.84	-13	-30.84	-53.79	3.15	13.1	Horizontal	Pass
7520	-43.83	-13	-30.83	-51.38	3.85	11.4	Horizontal	Pass
3760	-35.67	-13	-22.67	-45.35	2.92	12.6	Vertical	Pass
5640	-39.74	-13	-26.74	-49.69	3.15	13.1	Vertical	Pass
7520	-43.57	-13	-30.57	-51.12	3.85	11.4	Vertical	Pass

WCDMA Band II-High channel								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3815.2	-35.59	-13	-22.59	-45.27	2.92	12.6	Horizontal	Pass
5722.8	-42.81	-13	-29.81	-52.76	3.15	13.1	Horizontal	Pass
7630.4	-44.57	-13	-31.57	-52.12	3.85	11.4	Horizontal	Pass
3815.2	-31.74	-13	-18.74	-41.42	2.92	12.6	Vertical	Pass
5722.8	-39.51	-13	-26.51	-49.46	3.15	13.1	Vertical	Pass
7630.4	-44.12	-13	-31.12	-51.67	3.85	11.4	Vertical	Pass



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WCDMA Band IV-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3424.8	-45.51	-13	-32.51	-54.02	2.99	11.5	Horizontal	Pass
5137.2	-44.92	-13	-31.92	-54.62	3	12.7	Horizontal	Pass
6849.6	-45.66	-13	-32.66	-55.08	3.08	12.5	Horizontal	Pass
3424.8	-43.63	-13	-30.63	-52.14	2.99	11.5	Vertical	Pass
5137.2	-41.2	-13	-28.2	-50.9	3	12.7	Vertical	Pass
6849.6	-40.89	-13	-27.89	-50.31	3.08	12.5	Vertical	Pass

WCDMA Band IV-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3465.2	-44.67	-13	-31.67	-53.18	2.99	11.5	Horizontal	Pass
5197.8	-45.45	-13	-32.45	-55.15	3	12.7	Horizontal	Pass
6930.4	-44.14	-13	-31.14	-53.56	3.08	12.5	Horizontal	Pass
3465.2	-44.25	-13	-31.25	-52.76	2.99	11.5	Vertical	Pass
5197.8	-42.31	-13	-29.31	-52.01	3	12.7	Vertical	Pass
6930.4	-40.89	-13	-27.89	-50.31	3.08	12.5	Vertical	Pass

WCDMA Band IV-High channel								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3505.2	-45.7	-13	-32.7	-55.38	2.92	12.6	Horizontal	Pass
5257.8	-45.52	-13	-32.52	-55.22	3	12.7	Horizontal	Pass
7010.4	-43.83	-13	-30.83	-52.13	3.4	11.7	Horizontal	Pass
3505.2	-42.73	-13	-29.73	-52.41	2.92	12.6	Vertical	Pass
5257.8	-43.8	-13	-30.8	-53.5	3	12.7	Vertical	Pass
7010.4	-44.05	-13	-31.05	-52.35	3.4	11.7	Vertical	Pass

Note:

All modes have been tested and we found RMC Test mode has the worst test result. Only record the worst test result.



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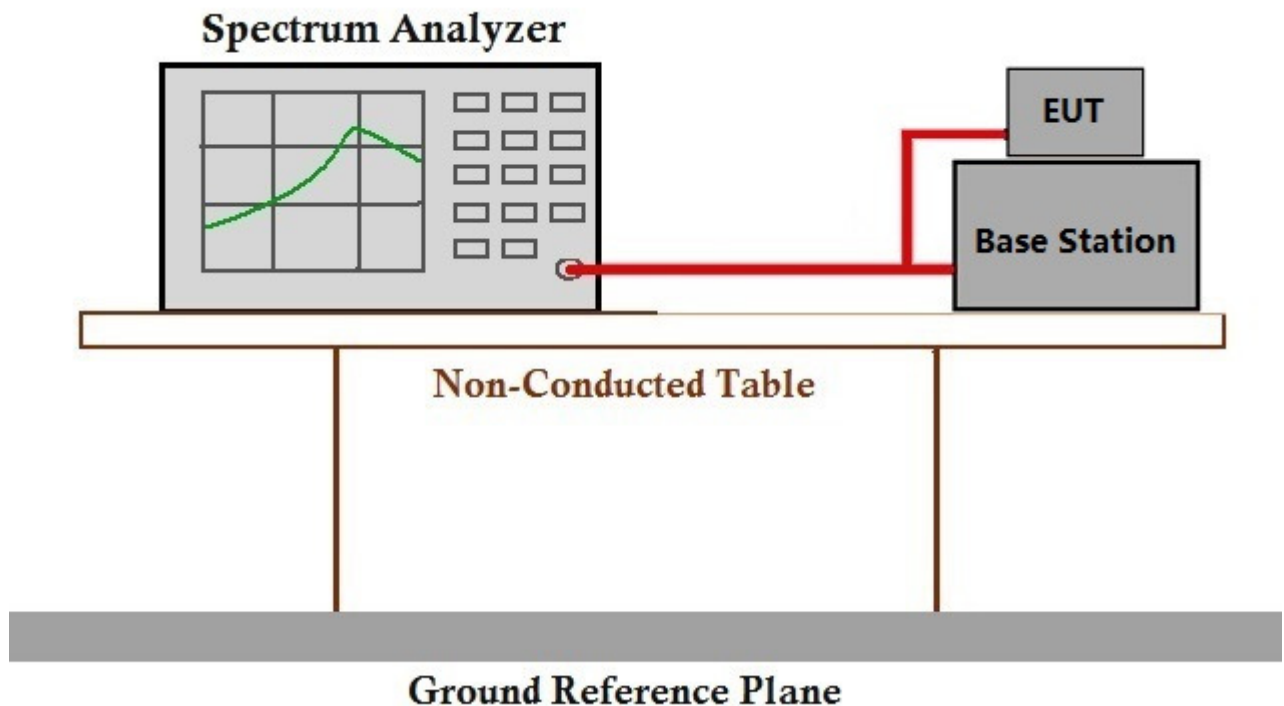
6.7 Frequency stability

Test Requirement: \$2.1055, \$22.355, \$24.235, \$27.54
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq \pm 2.5\text{ppm}$.

6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar
Test mode: 20: TX mode_Keep the EUT in transmitting mode

6.7.2 Test Setup Diagram



6.7.3 Measurement Data



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Test Band: 2 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	-12.7602	-13.2322	-0.6437	-0.0069	-0.0070	-0.0003	2.50	PASS
		NV	-12.6815	-13.8617	2.4962	-0.0068	-0.0074	0.0013	2.50	PASS
		HV	-8.1539	-13.2752	0.0358	-0.0044	-0.0071	0.0000	2.50	PASS
HSDPA	NT	LV	-19.5837	-8.1754	-9.2053	-0.0106	-0.0043	-0.0048	2.50	PASS
		NV	-22.7880	-12.5599	-5.3215	-0.0123	-0.0067	-0.0028	2.50	PASS
		HV	-19.6338	-10.6859	-7.7319	-0.0106	-0.0057	-0.0041	2.50	PASS
RMC	NT	LV	0.0715	0.6223	-0.5436	0.0000	0.0003	-0.0003	2.50	PASS
		NV	1.7953	1.7595	0.6366	0.0010	0.0009	0.0003	2.50	PASS
		HV	-0.8726	0.5507	0.5007	-0.0005	0.0003	0.0003	2.50	PASS

Test Band: 2 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	-6.9523	-9.7775	-1.1730	-0.0038	-0.0052	-0.0006	2.50	PASS
		-20.00	-8.2397	-8.7404	1.1873	-0.0044	-0.0046	0.0006	2.50	PASS
		-10.00	-6.8235	-10.1209	-2.5392	-0.0037	-0.0054	-0.0013	2.50	PASS
		0.00	-8.8334	-13.2179	0.6437	-0.0048	-0.0070	0.0003	2.50	PASS
		10.00	-7.2885	-11.0006	-4.3201	-0.0039	-0.0059	-0.0023	2.50	PASS
		20.00	-9.4342	-7.2241	0.4792	-0.0051	-0.0038	0.0003	2.50	PASS
		30.00	-11.0507	-8.8835	-0.4578	-0.0060	-0.0047	-0.0002	2.50	PASS
		40.00	-12.7816	-9.9063	0.1931	-0.0069	-0.0053	0.0001	2.50	PASS
		50.00	-11.6014	-6.8164	0.0930	-0.0063	-0.0036	0.0000	2.50	PASS
HSDPA	NV	-30.00	-20.4992	-7.7319	-9.9278	-0.0111	-0.0041	-0.0052	2.50	PASS
		-20.00	-22.4233	-8.0681	-5.4860	-0.0121	-0.0043	-0.0029	2.50	PASS
		-10.00	-23.1028	-7.2384	-6.6090	-0.0125	-0.0039	-0.0035	2.50	PASS
		0.00	-12.8245	-8.3256	-9.2340	-0.0069	-0.0044	-0.0048	2.50	PASS
		10.00	4.9782	-11.2367	-5.8579	0.0027	-0.0060	-0.0031	2.50	PASS
		20.00	1.4734	-10.9220	-6.4230	0.0008	-0.0058	-0.0034	2.50	PASS
		30.00	4.2057	-10.5214	-6.4659	0.0023	-0.0056	-0.0034	2.50	PASS
		40.00	1.6594	-7.4244	-5.8222	0.0009	-0.0039	-0.0031	2.50	PASS
		50.00	-14.8487	-7.1168	-6.7878	-0.0080	-0.0038	-0.0036	2.50	PASS
RMC	NV	-30.00	2.2674	0.6580	-0.4721	0.0012	0.0004	-0.0002	2.50	PASS
		-20.00	0.2217	2.2244	-0.3147	0.0001	0.0012	-0.0002	2.50	PASS
		-10.00	-1.3161	-0.2074	-0.4649	-0.0007	-0.0001	-0.0002	2.50	PASS
		0.00	1.5235	-0.1788	1.2732	0.0008	-0.0001	0.0007	2.50	PASS



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		10.00	0.8368	-1.0300	0.6151	0.0005	-0.0005	0.0003	2.50	PASS
		20.00	1.1015	1.2660	-4.4918	0.0006	0.0007	-0.0024	2.50	PASS
		30.00	1.6451	0.3362	-4.5347	0.0009	0.0002	-0.0024	2.50	PASS
		40.00	0.3576	0.7367	-0.8011	0.0002	0.0004	-0.0004	2.50	PASS
		50.00	2.1100	0.9227	0.3219	0.0011	0.0005	0.0002	2.50	PASS

Test Band: 4 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	-5.8794	-6.0868	-7.8106	-0.0034	-0.0035	-0.0045	2.50	PASS
		NV	-4.1485	-6.1870	-7.8177	-0.0024	-0.0036	-0.0045	2.50	PASS
		HV	-5.8436	-6.4158	-4.6563	-0.0034	-0.0037	-0.0027	2.50	PASS
HSDPA	NT	LV	-7.1025	-6.0010	-7.2384	-0.0041	-0.0035	-0.0041	2.50	PASS
		NV	-4.3917	-9.6416	-7.5102	-0.0026	-0.0056	-0.0043	2.50	PASS
		HV	-6.1369	-4.3058	-10.4141	-0.0036	-0.0025	-0.0059	2.50	PASS
RMC	NT	LV	2.0099	-2.3031	-9.2697	0.0012	-0.0013	-0.0053	2.50	PASS
		NV	0.6652	-0.6938	-6.5660	0.0004	-0.0004	-0.0037	2.50	PASS
		HV	2.5320	-1.6809	-10.5643	0.0015	-0.0010	-0.0060	2.50	PASS

Test Band: 4 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	-5.5146	-6.6304	-7.5173	-0.0032	-0.0038	-0.0043	2.50	PASS
		-20.00	-6.5947	-5.1641	-5.8722	-0.0039	-0.0030	-0.0034	2.50	PASS
		-10.00	-6.5303	-9.4914	-0.4292	-0.0038	-0.0055	-0.0002	2.50	PASS
		0.00	-4.8065	-5.9366	-1.2660	-0.0028	-0.0034	-0.0007	2.50	PASS
		10.00	-4.1056	-6.9952	-2.0099	-0.0024	-0.0040	-0.0011	2.50	PASS
		20.00	-4.4346	-6.2799	-2.7394	-0.0026	-0.0036	-0.0016	2.50	PASS
		30.00	-4.0841	-6.1584	-1.2875	-0.0024	-0.0036	-0.0007	2.50	PASS
		40.00	-3.2258	-5.8722	-4.7636	-0.0019	-0.0034	-0.0027	2.50	PASS
		50.00	-6.2942	-7.9036	-1.5450	-0.0037	-0.0046	-0.0009	2.50	PASS
HSDPA	NV	-30.00	-5.0569	-7.0953	-8.0609	-0.0030	-0.0041	-0.0046	2.50	PASS
		-20.00	-4.1628	-5.4717	-5.7936	-0.0024	-0.0032	-0.0033	2.50	PASS
		-10.00	-5.9938	-5.6648	-4.5991	-0.0035	-0.0033	-0.0026	2.50	PASS
		0.00	-4.4775	-8.6761	-6.7377	-0.0026	-0.0050	-0.0038	2.50	PASS
		10.00	-4.5347	-5.5575	-4.4918	-0.0026	-0.0032	-0.0026	2.50	PASS
		20.00	-4.0841	-7.4744	-4.6778	-0.0024	-0.0043	-0.0027	2.50	PASS
		30.00	-6.3157	-9.5272	-6.3586	-0.0037	-0.0055	-0.0036	2.50	PASS
		40.00	-7.1454	-8.5759	-6.3515	-0.0042	-0.0049	-0.0036	2.50	PASS



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		50.00	-5.8293	-6.1226	-7.9322	-0.0034	-0.0035	-0.0045	2.50	PASS
RMC	NV	-30.00	1.9598	-1.7309	-12.6100	0.0011	-0.0010	-0.0072	2.50	PASS
		-20.00	2.0099	-0.9584	-13.3967	0.0012	-0.0006	-0.0076	2.50	PASS
		-10.00	1.3518	-1.7309	-14.8630	0.0008	-0.0010	-0.0085	2.50	PASS
		0.00	1.4234	-2.9469	-16.5153	0.0008	-0.0017	-0.0094	2.50	PASS
		10.00	2.5821	-1.0228	-16.2148	0.0015	-0.0006	-0.0093	2.50	PASS
		20.00	1.8382	-3.5977	-16.6440	0.0011	-0.0021	-0.0095	2.50	PASS
		30.00	0.4935	-1.1444	-7.6675	0.0003	-0.0007	-0.0044	2.50	PASS
		40.00	-0.2217	-1.3089	-14.3695	-0.0001	-0.0008	-0.0082	2.50	PASS
		50.00	1.3590	-2.4819	-15.5282	0.0008	-0.0014	-0.0089	2.50	PASS

Test Band: 5 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	-5.3072	-6.5374	-4.6778	-0.0064	-0.0078	-0.0055	2.50	PASS
		NV	-5.6505	-6.6447	-4.1771	-0.0068	-0.0079	-0.0049	2.50	PASS
		HV	-7.9608	-4.1556	-4.6420	-0.0096	-0.0050	-0.0055	2.50	PASS
HSDPA	NT	LV	-7.6461	-2.2101	-5.4073	-0.0093	-0.0026	-0.0064	2.50	PASS
		NV	-9.9564	-2.4676	-6.4158	-0.0120	-0.0029	-0.0076	2.50	PASS
		HV	-7.7391	-3.0255	-5.0426	-0.0094	-0.0036	-0.0060	2.50	PASS
RMC	NT	LV	-2.8467	-0.0858	-1.8239	-0.0034	-0.0001	-0.0022	2.50	PASS
		NV	-2.9111	0.4935	-1.5020	-0.0035	0.0006	-0.0018	2.50	PASS
		HV	-2.5249	0.2360	-2.3103	-0.0031	0.0003	-0.0027	2.50	PASS

Test Band: 5 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	-5.0497	-4.3416	-6.3443	-0.0061	-0.0052	-0.0075	2.50	PASS
		-20.00	-6.3515	-4.4489	-4.8351	-0.0077	-0.0053	-0.0057	2.50	PASS
		-10.00	-5.3787	-4.5061	-5.2500	-0.0065	-0.0054	-0.0062	2.50	PASS
		0.00	-5.6791	-4.3201	-5.3859	-0.0069	-0.0052	-0.0064	2.50	PASS
		10.00	-6.0725	-6.1584	-7.0667	-0.0073	-0.0074	-0.0083	2.50	PASS
		20.00	-7.9679	-4.7278	-4.9067	-0.0096	-0.0057	-0.0058	2.50	PASS
		30.00	-5.4431	-6.5160	-6.6018	-0.0066	-0.0078	-0.0078	2.50	PASS
		40.00	-5.5861	-6.5231	-5.1355	-0.0068	-0.0078	-0.0061	2.50	PASS
		50.00	-5.9724	-4.5562	-4.6849	-0.0072	-0.0054	-0.0055	2.50	PASS
HSDPA	NV	-30.00	-7.2384	-3.3832	-5.2285	-0.0088	-0.0040	-0.0062	2.50	PASS
		-20.00	-8.0037	-2.8467	-4.1842	-0.0097	-0.0034	-0.0049	2.50	PASS
		-10.00	-9.5773	-2.9397	-2.1815	-0.0116	-0.0035	-0.0026	2.50	PASS



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Guangzhou Branch

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		0.00	-7.6389	-2.8539	-3.0899	-0.0092	-0.0034	-0.0036	2.50	PASS
		10.00	-7.2169	-3.4404	-4.5776	-0.0087	-0.0041	-0.0054	2.50	PASS
		20.00	-9.4414	-2.3460	-4.4203	-0.0114	-0.0028	-0.0052	2.50	PASS
		30.00	-9.5415	-4.2558	-4.3702	-0.0115	-0.0051	-0.0052	2.50	PASS
		40.00	-6.7163	-2.4676	-2.7251	-0.0081	-0.0029	-0.0032	2.50	PASS
		50.00	-8.4043	-3.0184	-3.0398	-0.0102	-0.0036	-0.0036	2.50	PASS
RMC	NV	-30.00	-2.1029	0.6294	-2.3603	-0.0025	0.0008	-0.0028	2.50	PASS
		-20.00	-2.0456	0.4506	-3.0041	-0.0025	0.0005	-0.0035	2.50	PASS
		-10.00	-1.6952	0.8941	-3.5405	-0.0021	0.0011	-0.0042	2.50	PASS
		0.00	-1.7095	0.8941	-3.1042	-0.0021	0.0011	-0.0037	2.50	PASS
		10.00	-1.7881	0.7796	-3.2902	-0.0022	0.0009	-0.0039	2.50	PASS
		20.00	-1.0085	1.0443	-3.3045	-0.0012	0.0012	-0.0039	2.50	PASS
		30.00	-1.4019	1.4234	-2.9683	-0.0017	0.0017	-0.0035	2.50	PASS
		40.00	-1.2088	1.9169	-2.2030	-0.0015	0.0023	-0.0026	2.50	PASS
		50.00	-0.7868	1.3232	-2.0456	-0.0010	0.0016	-0.0024	2.50	PASS



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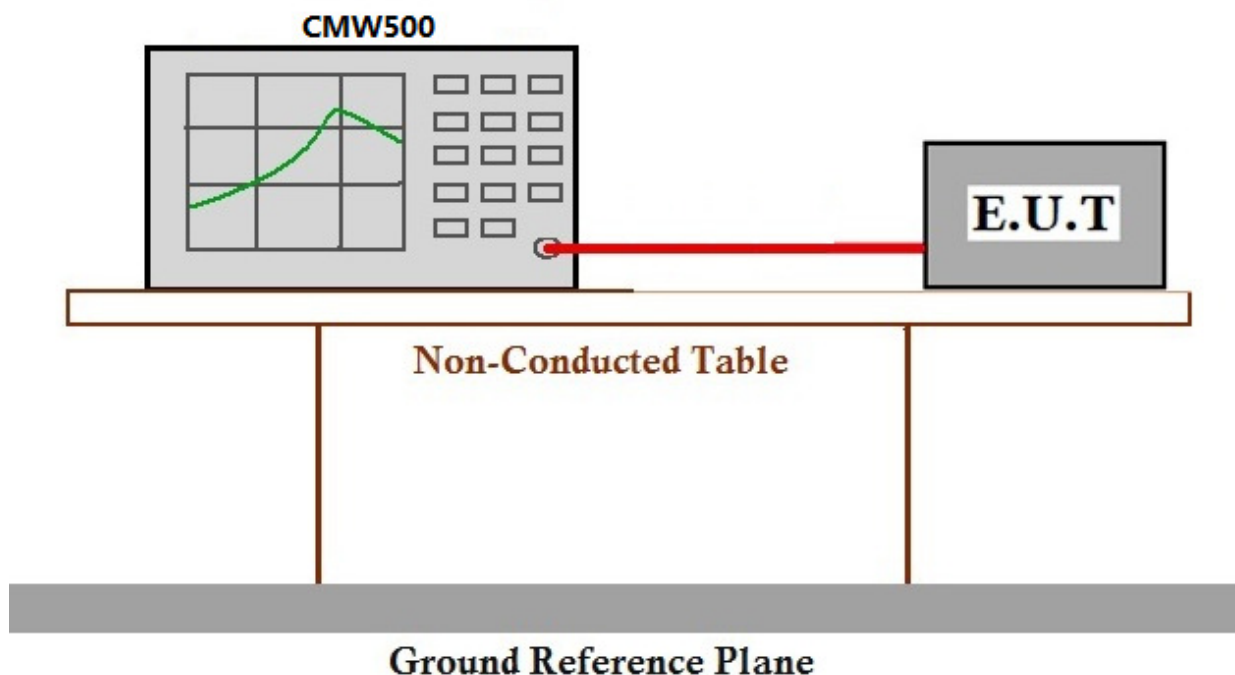
6.8 Modulation Characteristics

Test Requirement: §2.1047
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:
Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar
Test mode: 20: TX mode_Keep the EUT in transmitting mode

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

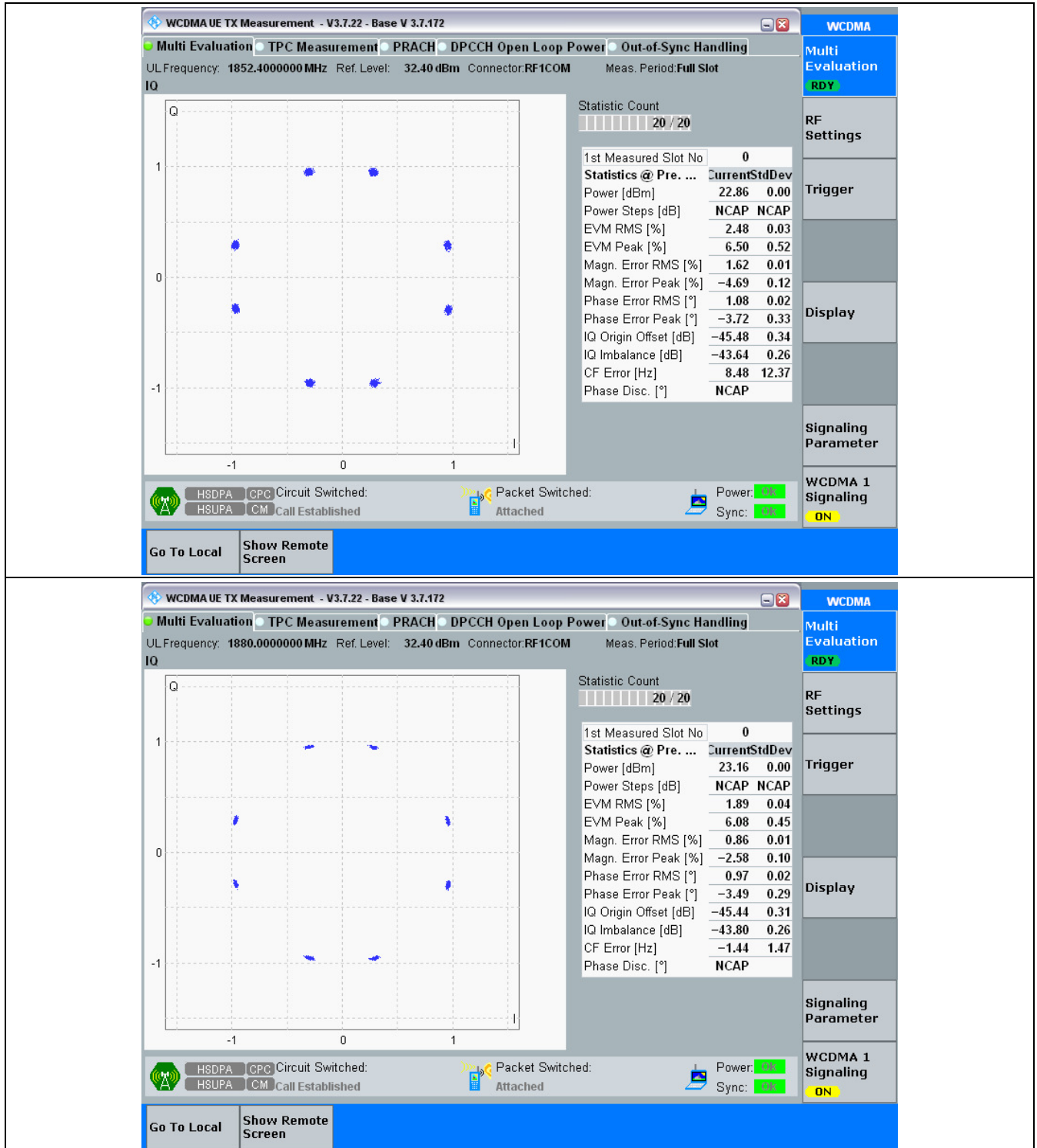


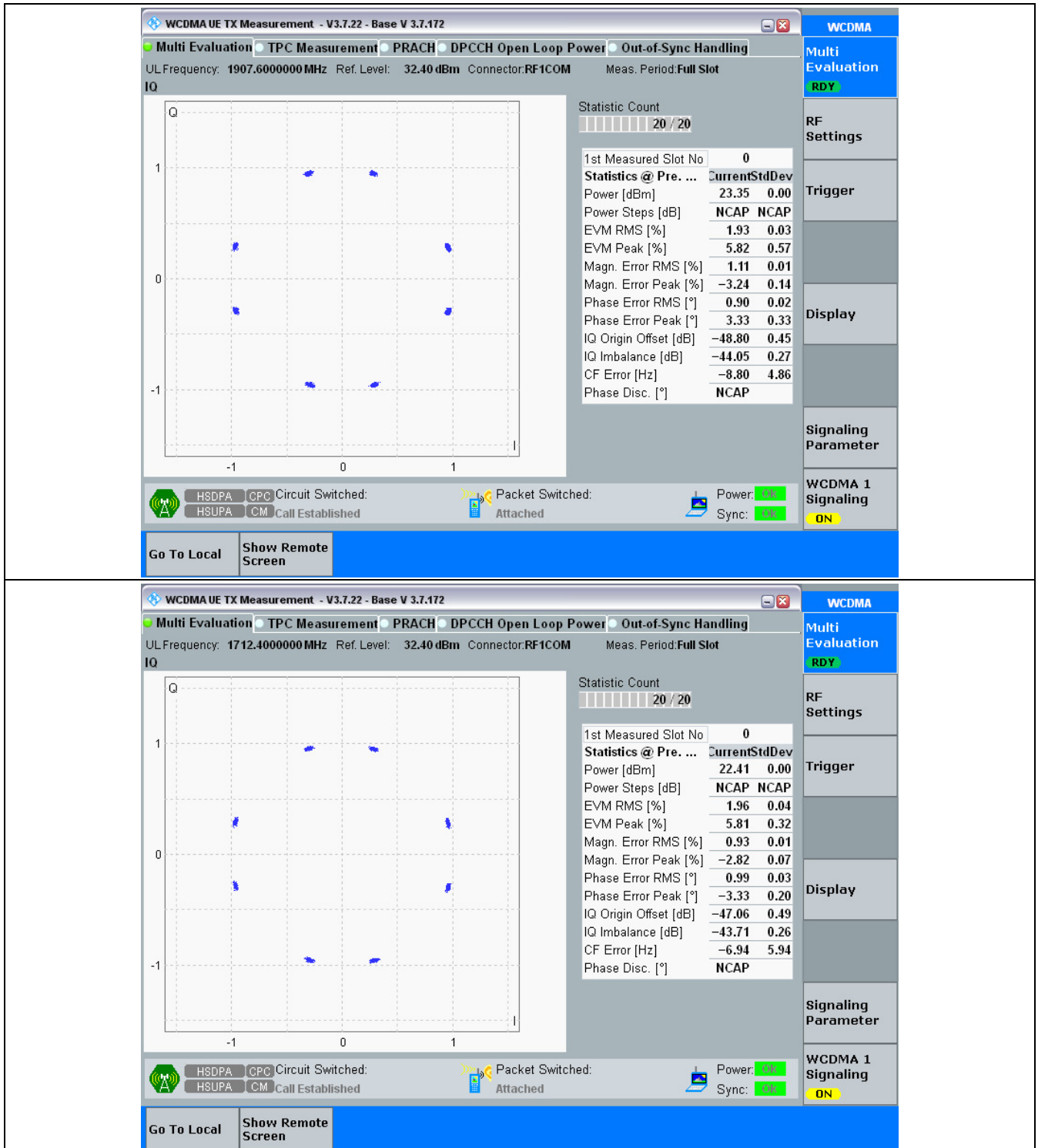
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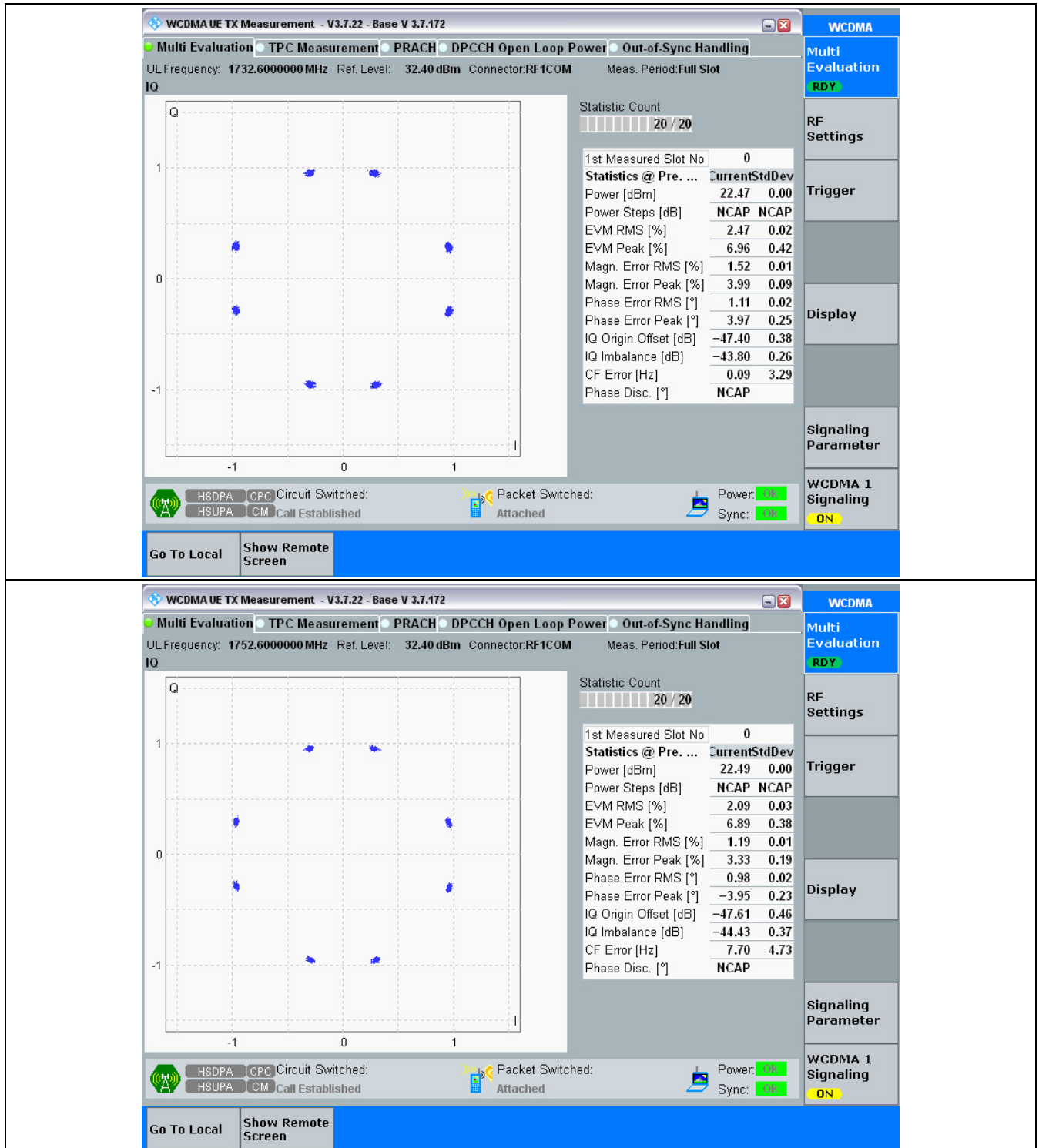
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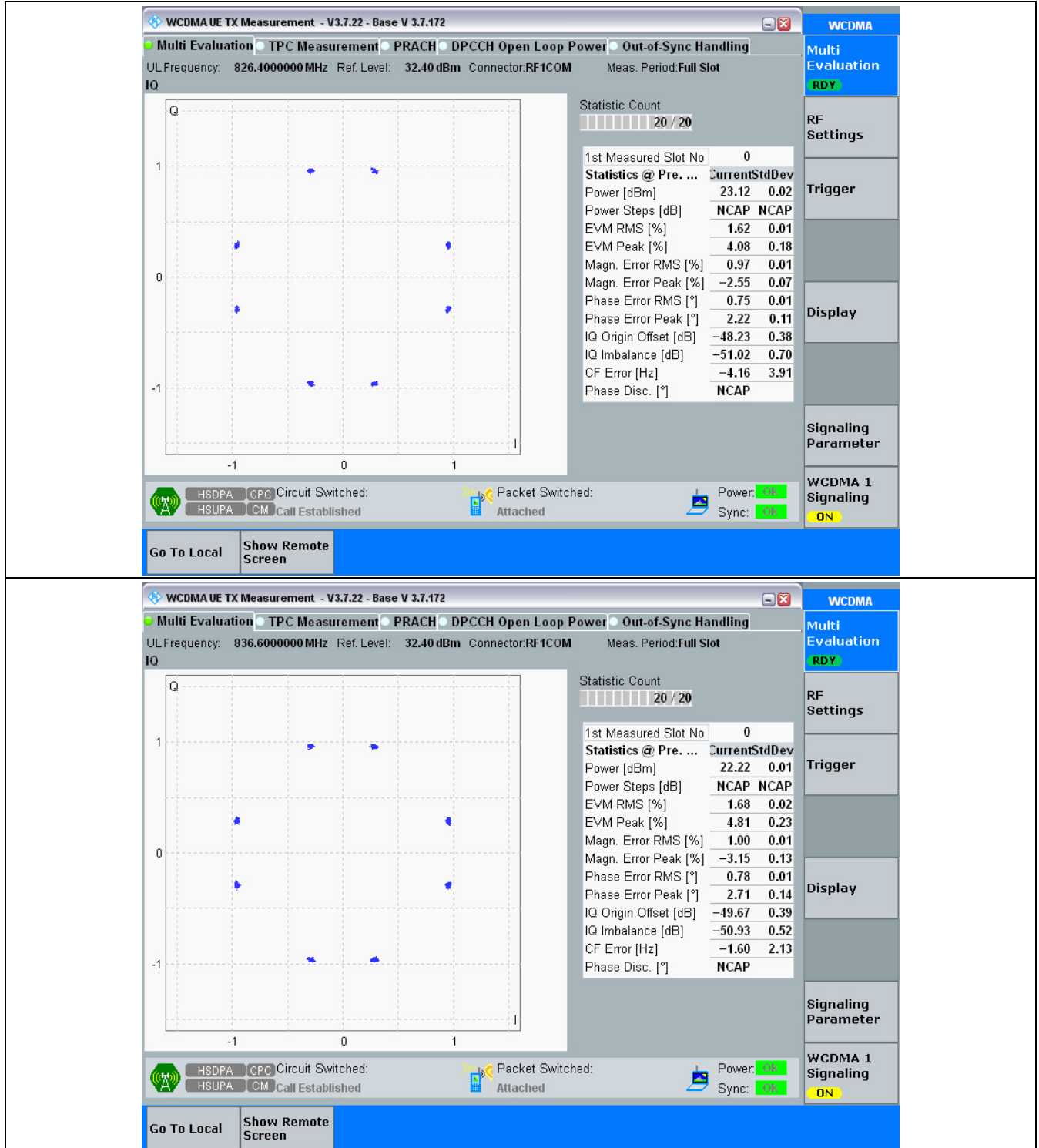
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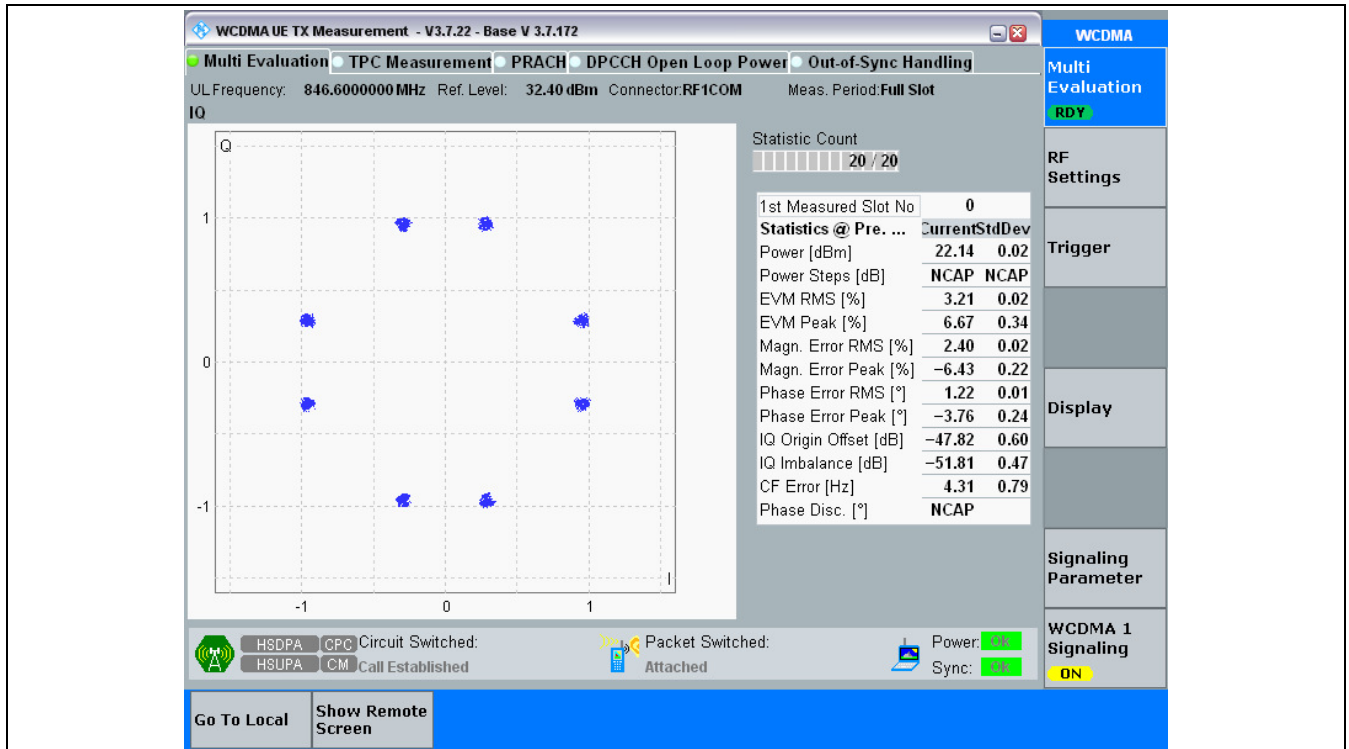
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7 Photographs

7.1 Test Setup Photos

Refer to Appendix - Setup Photos-WWAN for GZCR2108020814AT

7.2 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2108020814AT

- End of the Report -



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