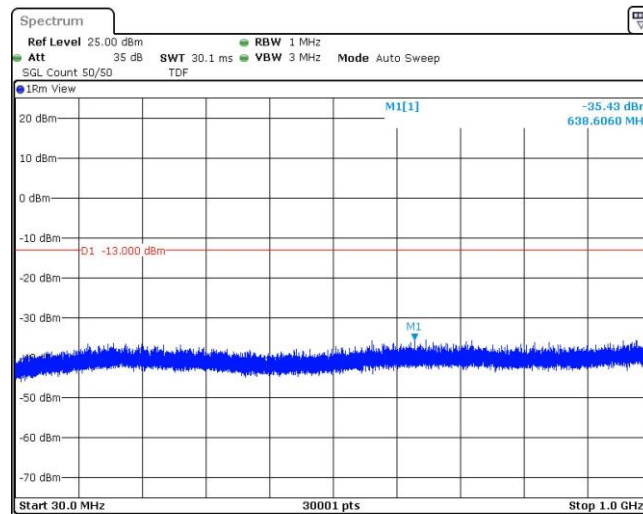
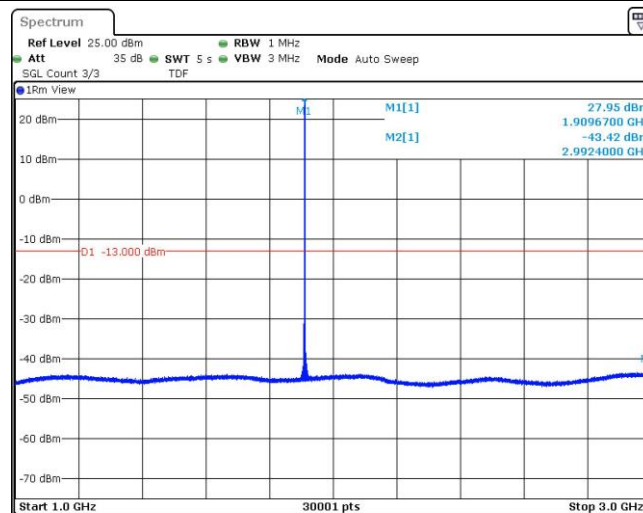
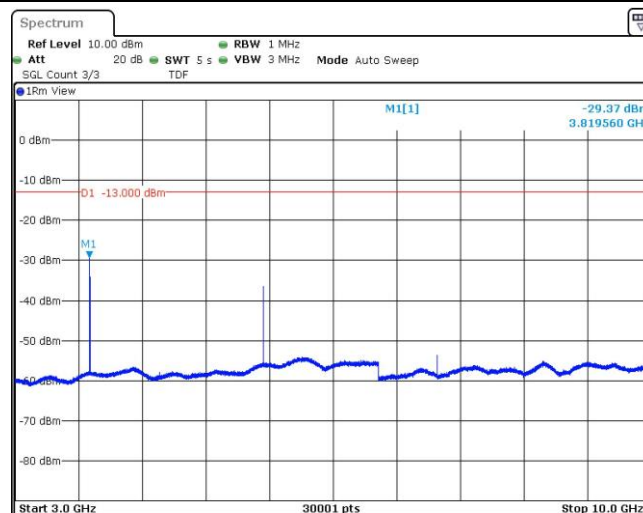




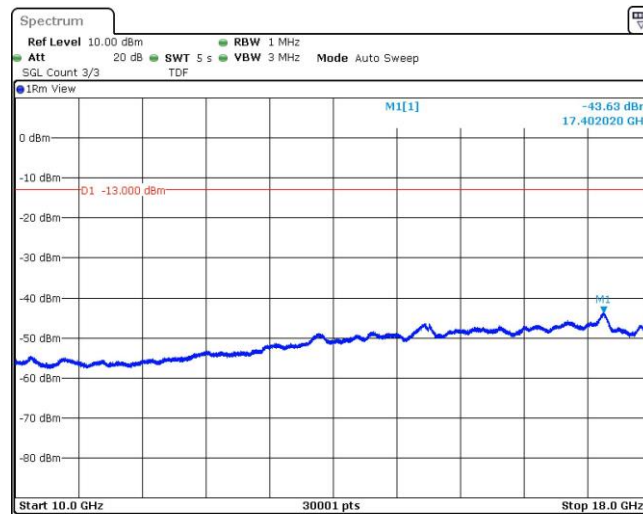
GPRS1900-661-0-1000~3000MHz



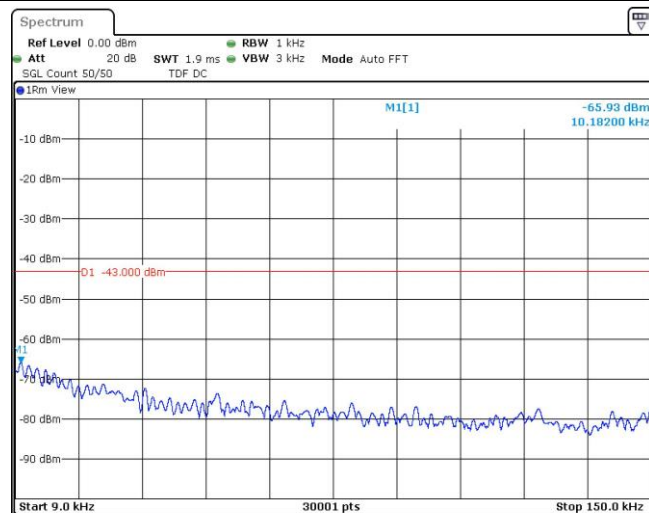
GPRS1900-661-0-3000~10000MHz



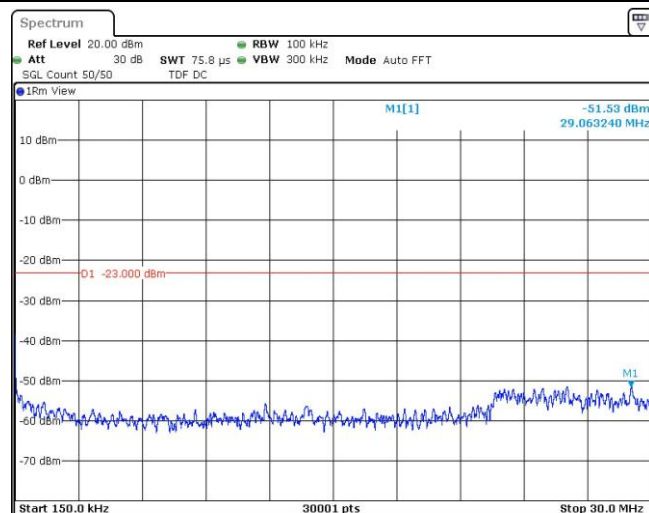
GPRS1900-661-0-10000~18000MHz



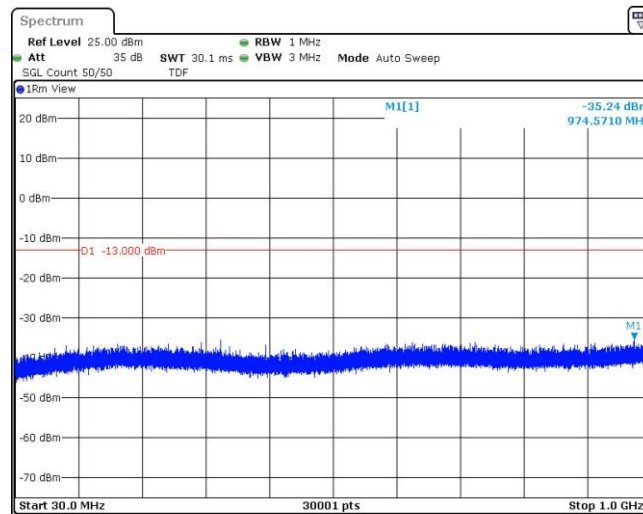
GPRS1900-810-0-0.009~0.15MHz



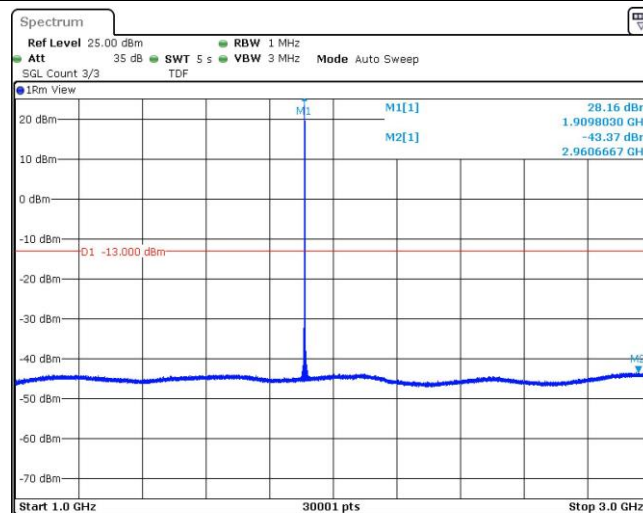
GPRS1900-810-0-0.15~30MHz



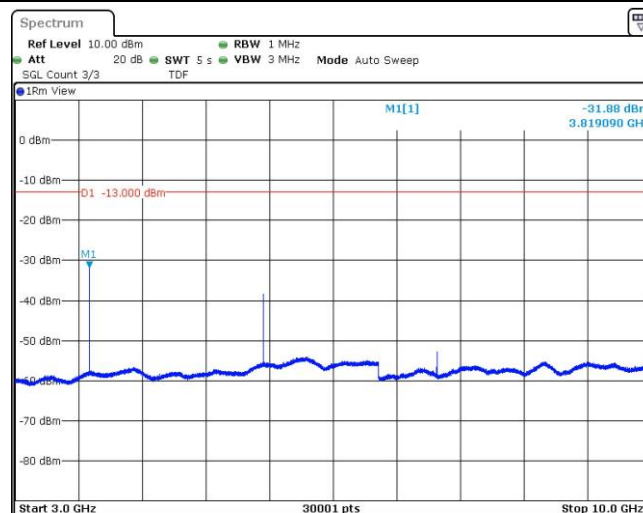
GPRS1900-810-0-30~1000MHz



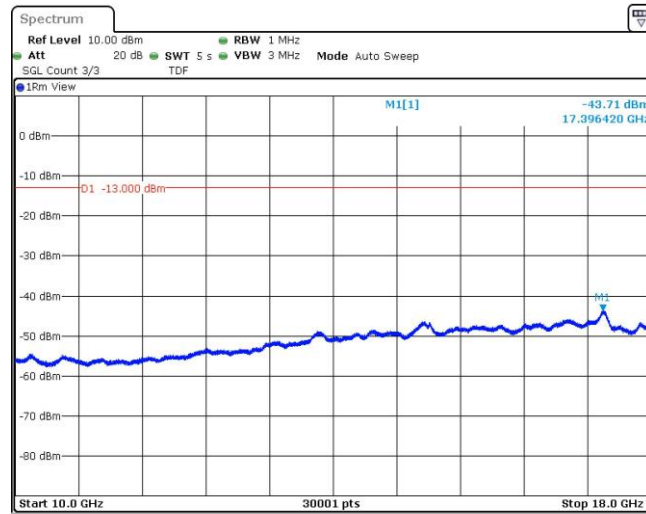
GPRS1900-810-0-1000~3000MHz



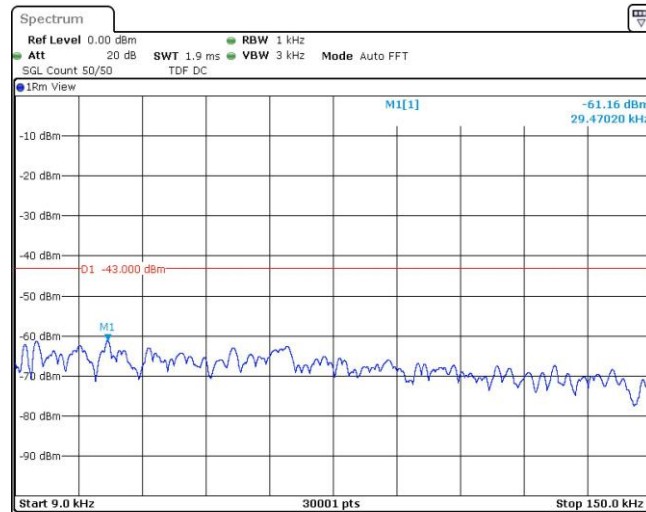
GPRS1900-810-0-3000~10000MHz



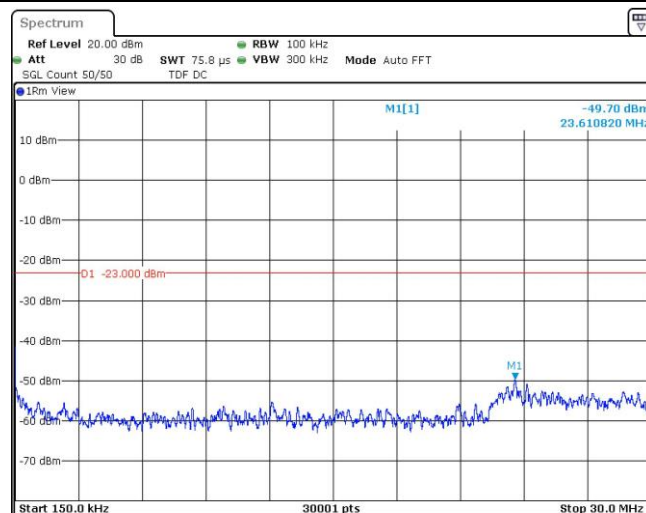
GPRS1900-810-0-10000~18000MHz



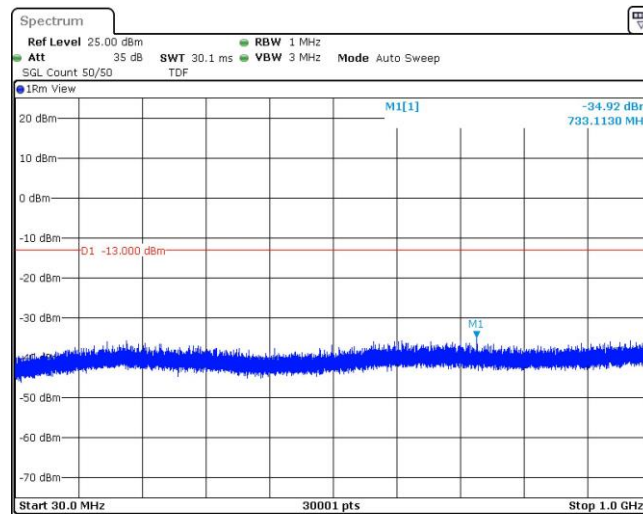
EGPRS1900-512-2-0.009~0.15MHz



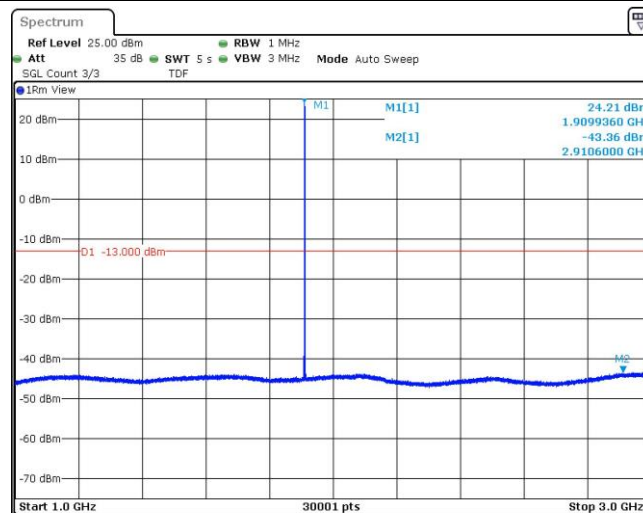
EGPRS1900-512-2-0.15~30MHz



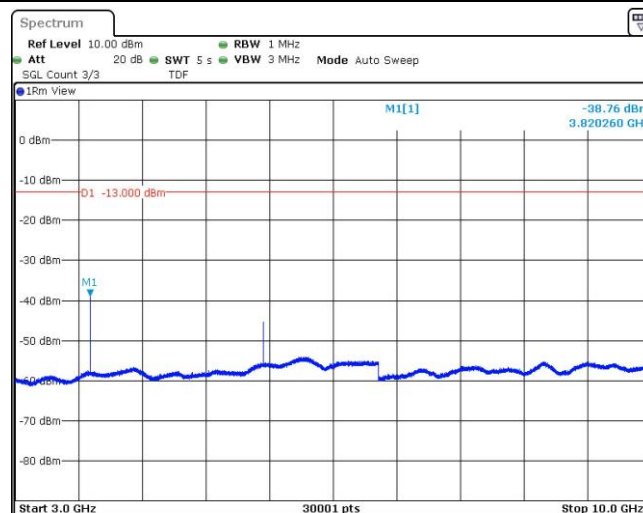
EGPRS1900-512-2-30~1000MHz



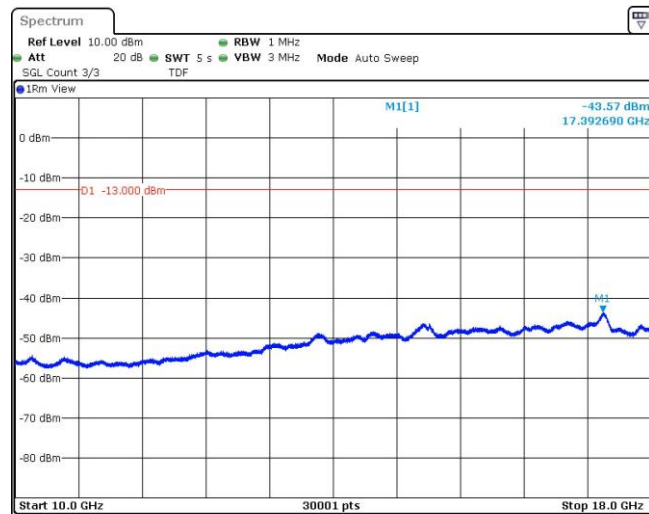
EGPRS1900-512-2-1000~3000MHz



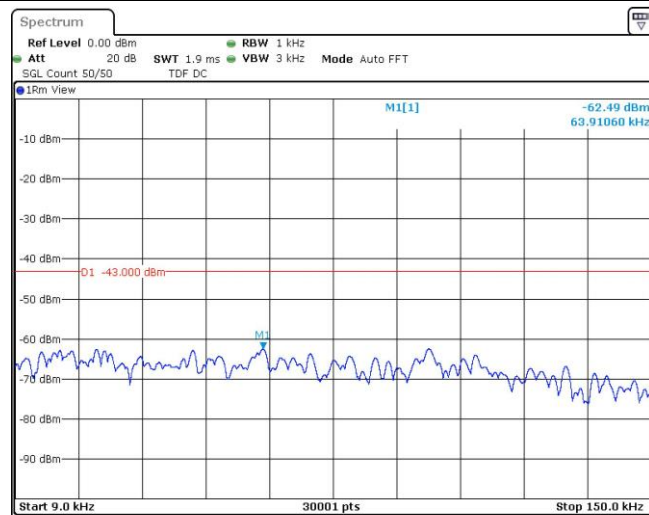
EGPRS1900-512-2-3000~10000MHz



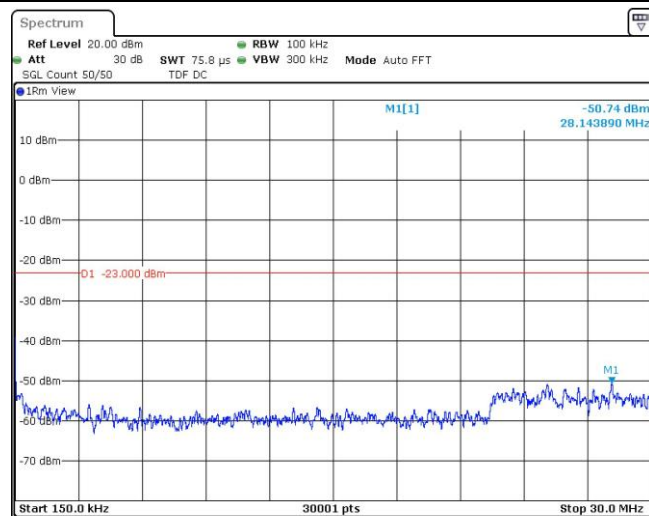
EGPRS1900-512-2-10000~18000MHz



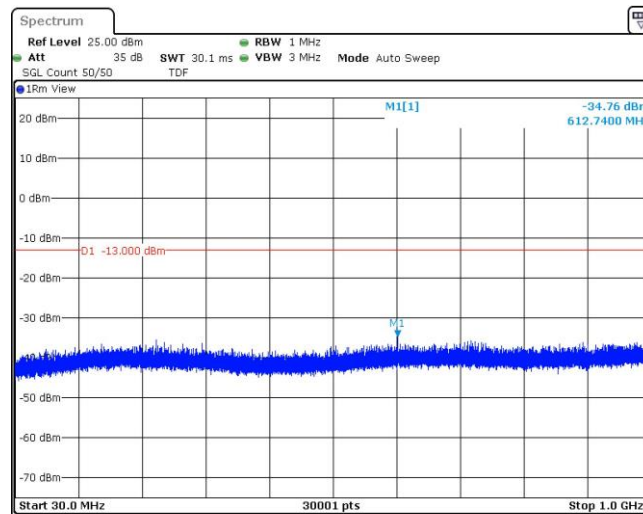
EGPRS1900-661-2-0.009~0.15MHz



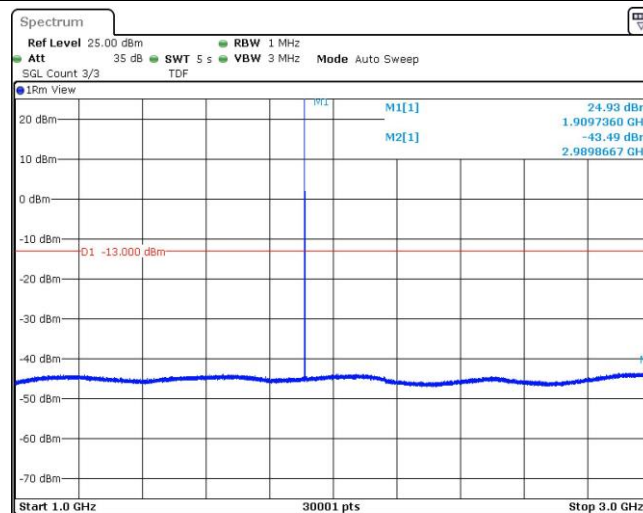
EGPRS1900-661-2-0.15~30MHz



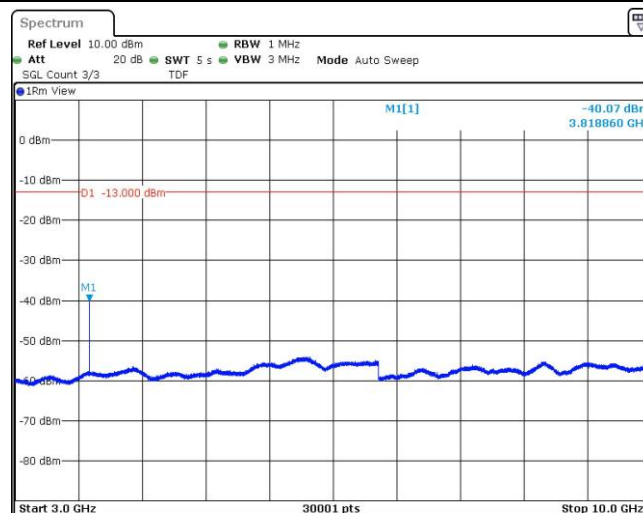
EGPRS1900-661-2-30~1000MHz



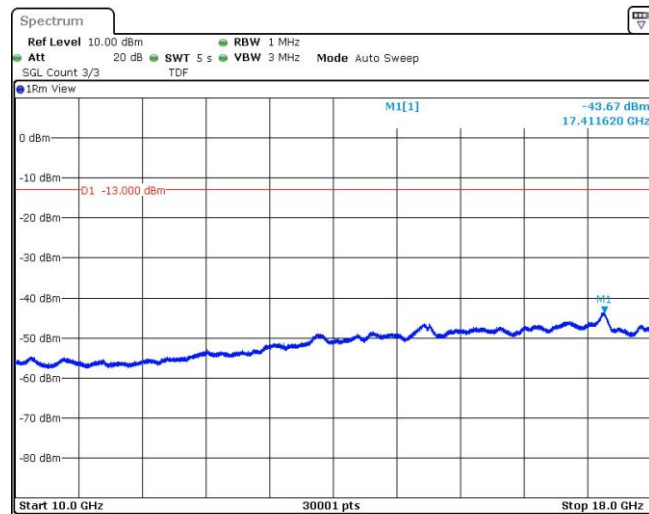
EGPRS1900-661-2-1000~3000MHz



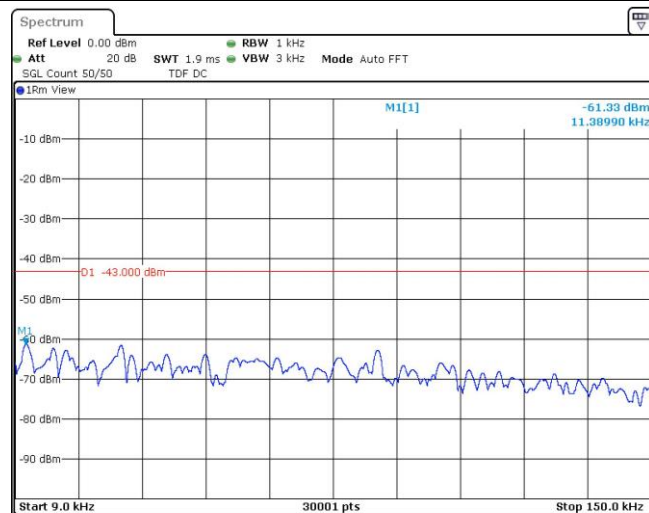
EGPRS1900-661-2-3000~10000MHz



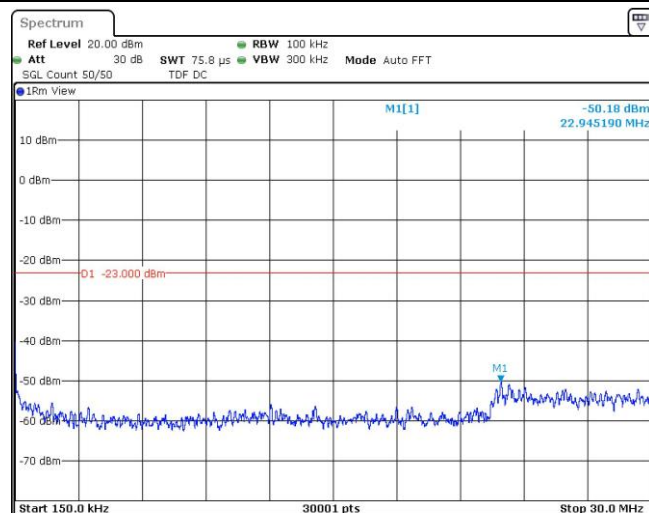
EGPRS1900-661-2-10000~18000MHz



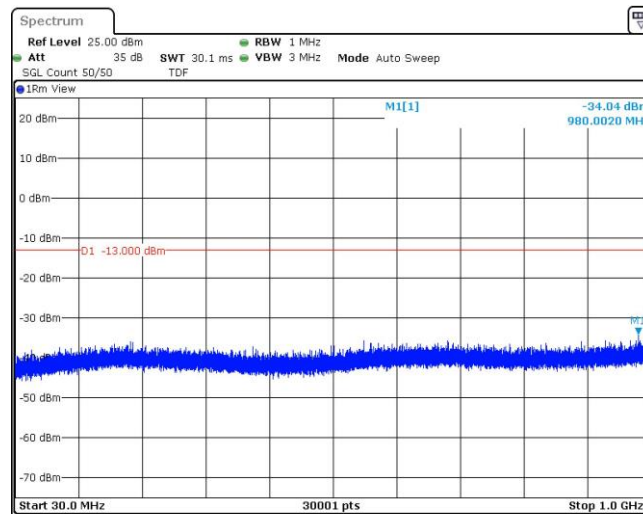
EGPRS1900-810-2-0.009~0.15MHz



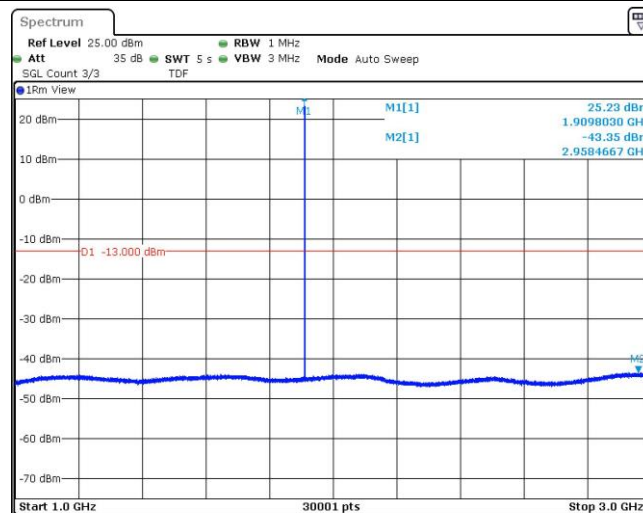
EGPRS1900-810-2-0.15~30MHz



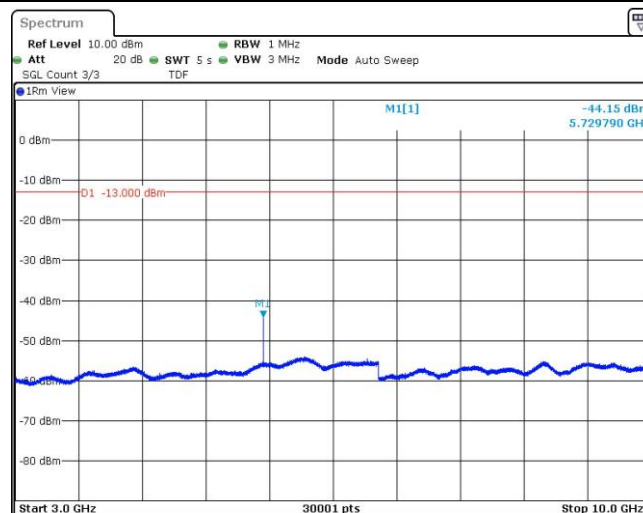
EGPRS1900-810-2-30~1000MHz



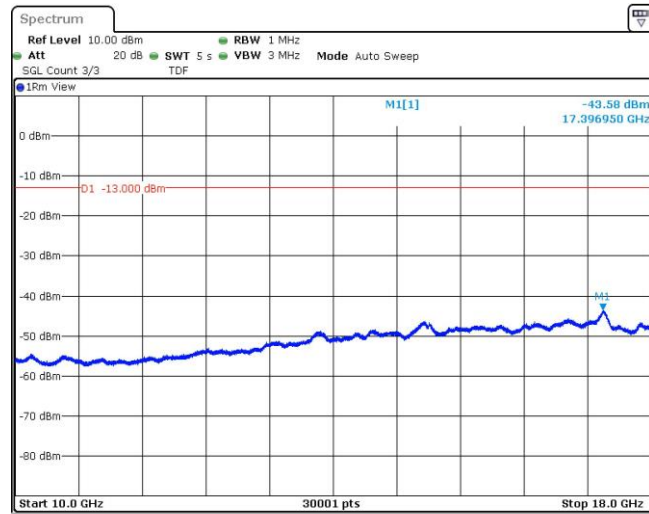
EGPRS1900-810-2-1000~3000MHz



EGPRS1900-810-2-3000~10000MHz



EGPRS1900-810-2-10000~18000MHz



Appendix G: Field Strength of Spurious Radiation

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz and 1.5 meter above 1GHz in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower. The emissions were very low against the limit in the frequency range 9kHz to 30MHz and 18 GHz ~ 20 GHz.

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

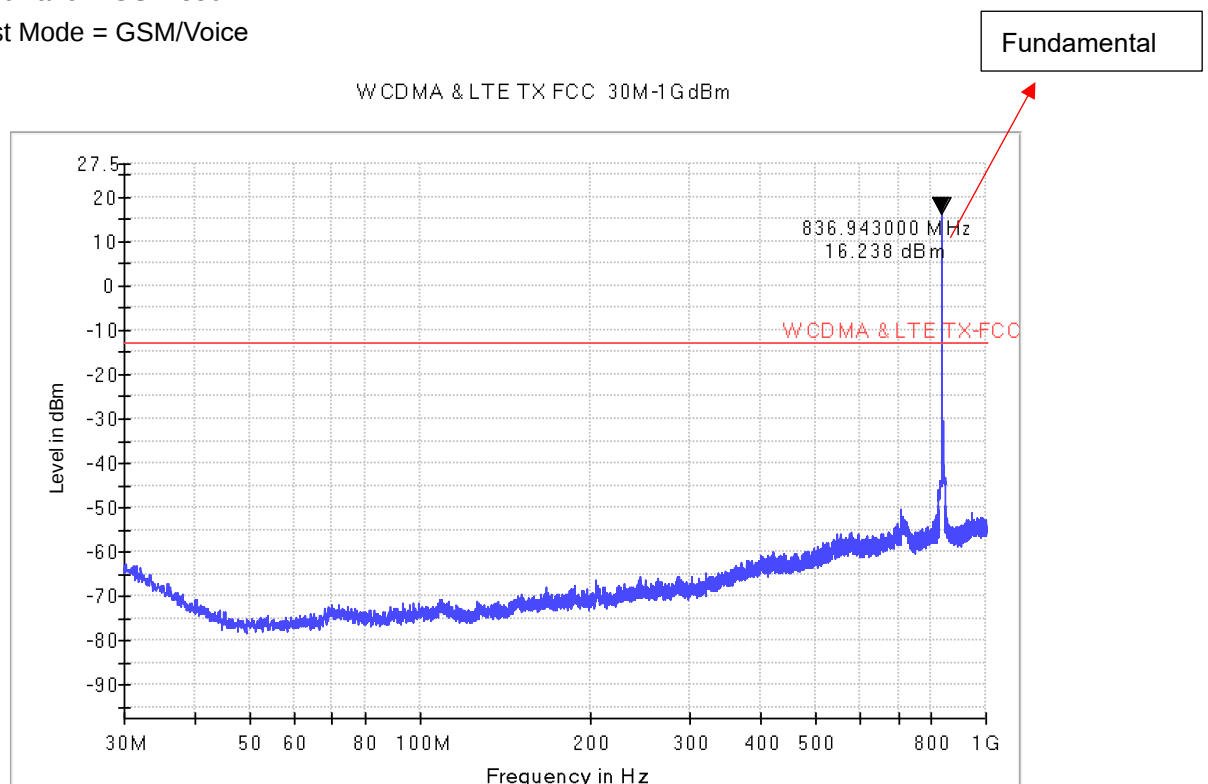
30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

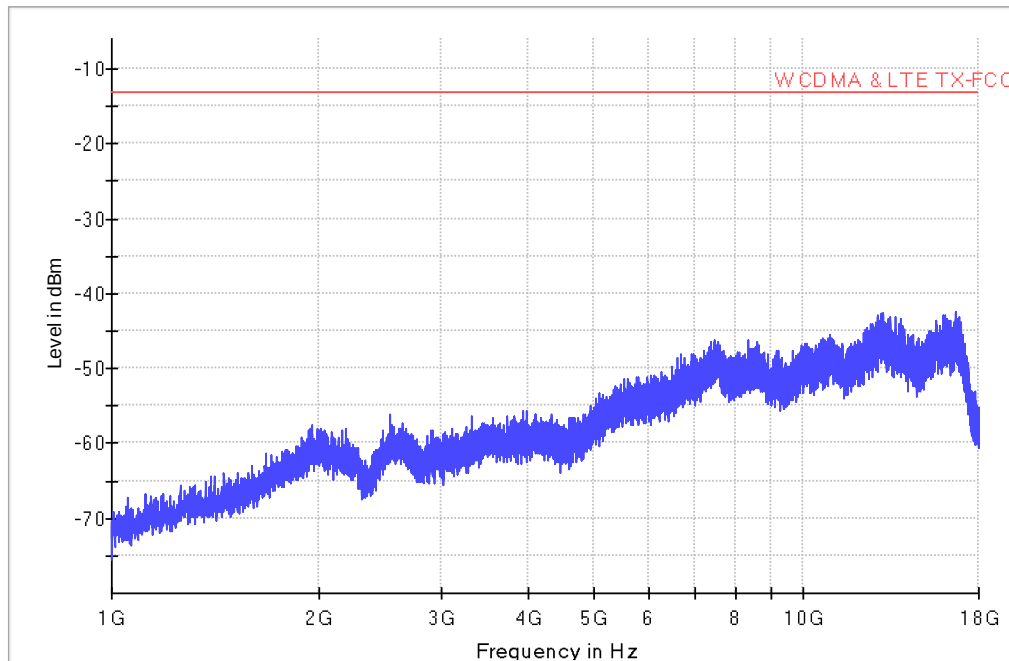
Test Plots

Test Band = GSM 850

Test Mode = GSM/Voice



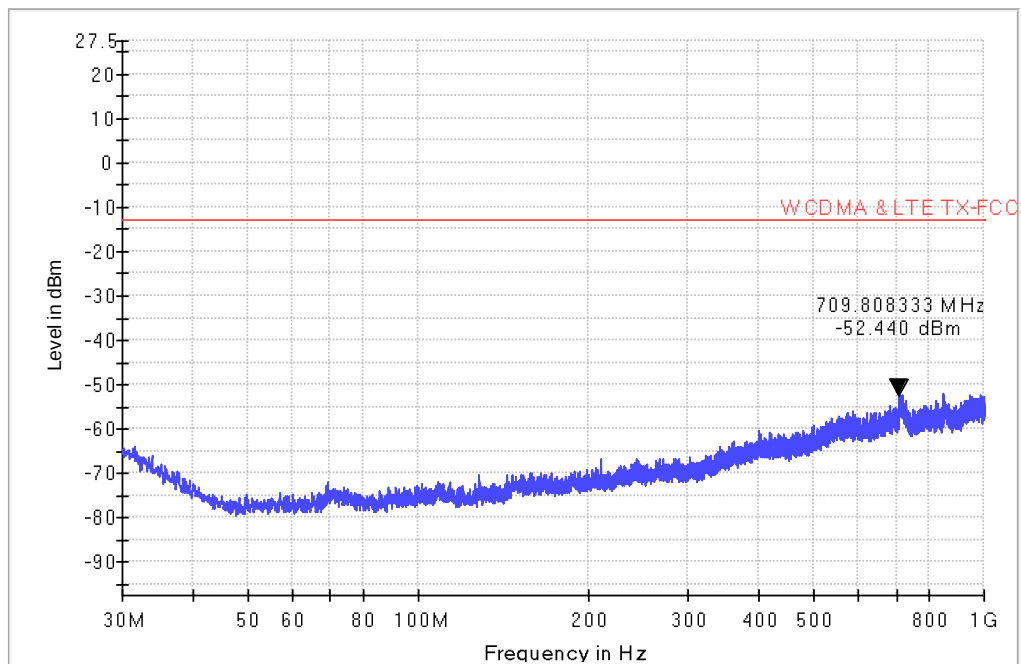
WCDMA & LTE TX FCC 1-12.75G dBm



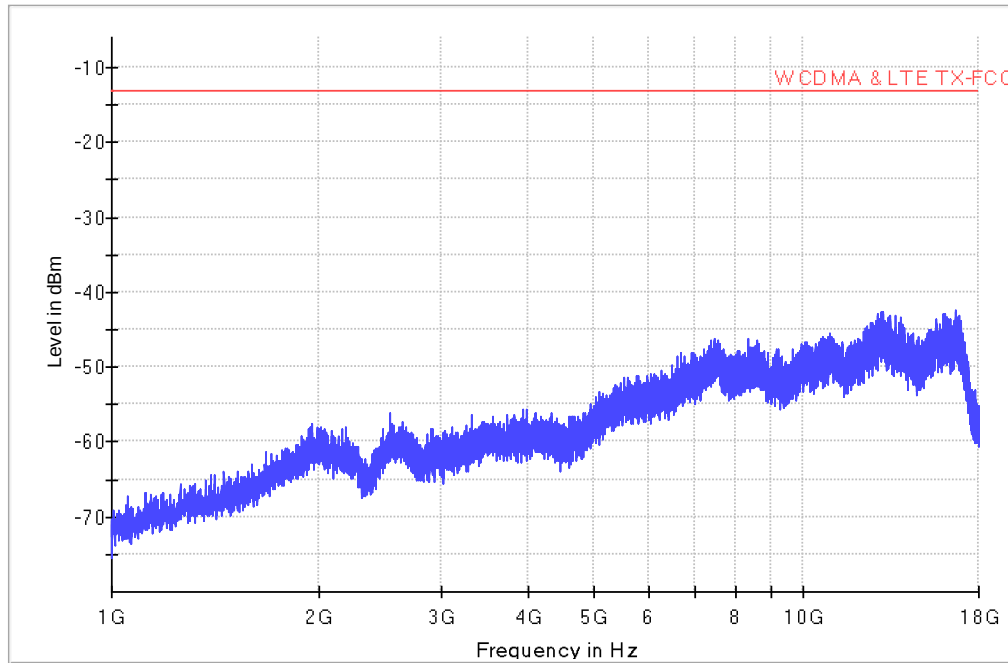
Test Band = GSM 1900

Test Mode = GSM/Voice

WCDMA & LTE TX FCC 30M-1G dBm



WCDMA & LTE TX FCC 1-12.75G dBm



Appendix H: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	0.87	0.001056	±2.5	PASS
GSM850	128	VN	NT	6.75	0.008190	±2.5	PASS
GSM850	128	VH	NT	3.26	0.003955	±2.5	PASS
GSM850	190	VL	NT	8.68	0.010375	±2.5	PASS
GSM850	190	VN	NT	6.42	0.007674	±2.5	PASS
GSM850	190	VH	NT	6.33	0.007566	±2.5	PASS
GSM850	251	VL	NT	7.33	0.008636	±2.5	PASS
GSM850	251	VN	NT	9.40	0.011074	±2.5	PASS
GSM850	251	VH	NT	3.84	0.004524	±2.5	PASS
GPRS850	128	VL	NT	5.68	0.006892	±2.5	PASS
GPRS850	128	VN	NT	3.29	0.003992	±2.5	PASS
GPRS850	128	VH	NT	7.07	0.008578	±2.5	PASS
GPRS850	190	VL	NT	1.97	0.002355	±2.5	PASS
GPRS850	190	VN	NT	1.26	0.001506	±2.5	PASS
GPRS850	190	VH	NT	3.29	0.003933	±2.5	PASS
GPRS850	251	VL	NT	3.10	0.003652	±2.5	PASS
GPRS850	251	VN	NT	2.52	0.002969	±2.5	PASS
GPRS850	251	VH	NT	3.07	0.003617	±2.5	PASS
EGPRS850	128	VL	NT	6.91	0.008384	±2.5	PASS
EGPRS850	128	VN	NT	8.17	0.009913	±2.5	PASS
EGPRS850	128	VH	NT	6.72	0.008153	±2.5	PASS
EGPRS850	190	VL	NT	2.87	0.003431	±2.5	PASS
EGPRS850	190	VN	NT	5.39	0.006443	±2.5	PASS
EGPRS850	190	VH	NT	5.65	0.006754	±2.5	PASS
EGPRS850	251	VL	NT	6.97	0.008212	±2.5	PASS
EGPRS850	251	VN	NT	6.78	0.007988	±2.5	PASS

0							
EGPRS850	251	VH	NT	3.39	0.003994	±2.5	PASS
GSM1900	512	VL	NT	0.16	0.000086	±2.5	PASS
GSM1900	512	VN	NT	4.75	0.002567	±2.5	PASS
GSM1900	512	VH	NT	2.03	0.001097	±2.5	PASS
GSM1900	661	VL	NT	9.81	0.005218	±2.5	PASS
GSM1900	661	VN	NT	7.30	0.003883	±2.5	PASS
GSM1900	661	VH	NT	5.97	0.003176	±2.5	PASS
GSM1900	810	VL	NT	6.94	0.003634	±2.5	PASS
GSM1900	810	VN	NT	4.97	0.002602	±2.5	PASS
GSM1900	810	VH	NT	10.88	0.005697	±2.5	PASS
GPRS1900	512	VL	NT	-1.13	-0.000611	±2.5	PASS
GPRS1900	512	VN	NT	2.07	0.001119	±2.5	PASS
GPRS1900	512	VH	NT	0.87	0.000470	±2.5	PASS
GPRS1900	661	VL	NT	7.68	0.004085	±2.5	PASS
GPRS1900	661	VN	NT	5.39	0.002867	±2.5	PASS
GPRS1900	661	VH	NT	3.23	0.001718	±2.5	PASS
GPRS1900	810	VL	NT	5.20	0.002723	±2.5	PASS
GPRS1900	810	VN	NT	4.39	0.002299	±2.5	PASS
GPRS1900	810	VH	NT	-0.36	-0.000189	±2.5	PASS
EGPRS1900	512	VL	NT	2.84	0.001535	±2.5	PASS
EGPRS1900	512	VN	NT	5.97	0.003227	±2.5	PASS
EGPRS1900	512	VH	NT	8.04	0.004345	±2.5	PASS
EGPRS1900	661	VL	NT	2.32	0.001234	±2.5	PASS
EGPRS1900	661	VN	NT	8.98	0.004777	±2.5	PASS
EGPRS1900	661	VH	NT	9.56	0.005085	±2.5	PASS
EGPRS1900	810	VL	NT	2.00	0.001047	±2.5	PASS
EGPRS1900	810	VN	NT	9.81	0.005137	±2.5	PASS
EGPRS1900	810	VH	NT	2.36	0.001236	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	7.33	0.008893	±2.5	PASS
GSM850	128	NV	-20	5.71	0.006928	±2.5	PASS
GSM850	128	NV	-10	9.85	0.011951	±2.5	PASS
GSM850	128	NV	0	4.97	0.006030	±2.5	PASS
GSM850	128	NV	10	9.10	0.011041	±2.5	PASS
GSM850	128	NV	20	3.81	0.004623	±2.5	PASS
GSM850	128	NV	30	7.10	0.008614	±2.5	PASS
GSM850	128	NV	40	3.91	0.004744	±2.5	PASS
GSM850	128	NV	45	3.97	0.004817	±2.5	PASS
GSM850	128	NV	50	7.20	0.008736	±2.5	PASS
GSM850	190	NV	-30	4.78	0.005714	±2.5	PASS
GSM850	190	NV	-20	6.01	0.007184	±2.5	PASS
GSM850	190	NV	-10	4.07	0.004865	±2.5	PASS
GSM850	190	NV	0	6.26	0.007483	±2.5	PASS
GSM850	190	NV	10	5.49	0.006562	±2.5	PASS
GSM850	190	NV	20	5.84	0.006981	±2.5	PASS
GSM850	190	NV	30	5.42	0.006479	±2.5	PASS
GSM850	190	NV	40	4.68	0.005594	±2.5	PASS
GSM850	190	NV	45	6.26	0.007483	±2.5	PASS
GSM850	251	NV	0	7.59	0.008942	±2.5	PASS
GSM850	251	NV	10	7.88	0.009284	±2.5	PASS
GSM850	251	NV	20	6.17	0.007269	±2.5	PASS
GSM850	251	NV	30	7.30	0.008600	±2.5	PASS
GSM850	251	NV	40	5.78	0.006810	±2.5	PASS
GSM850	251	NV	45	7.78	0.009166	±2.5	PASS
GPRS850	128	NV	0	6.10	0.007401	±2.5	PASS
GPRS850	128	NV	10	6.01	0.007292	±2.5	PASS
GPRS850	128	NV	20	5.17	0.006273	±2.5	PASS
GPRS850	128	NV	30	4.58	0.005557	±2.5	PASS
GPRS850	128	NV	40	7.20	0.008736	±2.5	PASS
GPRS850	128	NV	45	5.26	0.006382	±2.5	PASS
GPRS850	190	NV	0	1.87	0.002235	±2.5	PASS
GPRS850	190	NV	10	1.45	0.001733	±2.5	PASS
GPRS850	190	NV	20	0.48	0.000574	±2.5	PASS
GPRS850	190	NV	30	2.84	0.003395	±2.5	PASS
GPRS850	190	NV	40	1.90	0.002271	±2.5	PASS
GPRS850	190	NV	45	0.23	0.000275	±2.5	PASS
GPRS850	251	NV	0	3.65	0.004300	±2.5	PASS

GPRS850	251	NV	10	6.72	0.007917	±2.5	PASS
GPRS850	251	NV	20	3.78	0.004453	±2.5	PASS
GPRS850	251	NV	30	2.45	0.002886	±2.5	PASS
GPRS850	251	NV	40	4.04	0.004760	±2.5	PASS
GPRS850	251	NV	45	4.16	0.004901	±2.5	PASS
EGPRS850	128	NV	0	7.04	0.008542	±2.5	PASS
EGPRS850	128	NV	10	9.65	0.011708	±2.5	PASS
EGPRS850	128	NV	20	3.78	0.004586	±2.5	PASS
EGPRS850	128	NV	30	7.20	0.008736	±2.5	PASS
EGPRS850	128	NV	40	8.20	0.009949	±2.5	PASS
EGPRS850	128	NV	45	5.26	0.006382	±2.5	PASS
EGPRS850	190	NV	0	5.94	0.007100	±2.5	PASS
EGPRS850	190	NV	10	5.33	0.006371	±2.5	PASS
EGPRS850	190	NV	20	5.26	0.006287	±2.5	PASS
EGPRS850	190	NV	30	3.94	0.004710	±2.5	PASS
EGPRS850	190	NV	40	5.91	0.007064	±2.5	PASS
EGPRS850	190	NV	45	6.84	0.008176	±2.5	PASS
EGPRS850	251	NV	0	6.23	0.007340	±2.5	PASS
EGPRS850	251	NV	10	5.46	0.006433	±2.5	PASS
EGPRS850	251	NV	20	7.52	0.008860	±2.5	PASS
EGPRS850	251	NV	30	6.01	0.007081	±2.5	PASS
EGPRS850	251	NV	40	5.23	0.006162	±2.5	PASS
EGPRS850	251	NV	45	6.36	0.007493	±2.5	PASS

GSM1900	512	NV	0	6.26	0.003383	±2.5	PASS
GSM1900	512	NV	10	3.10	0.001675	±2.5	PASS
GSM1900	512	NV	20	4.46	0.002411	±2.5	PASS
GSM1900	512	NV	30	3.58	0.001935	±2.5	PASS
GSM1900	512	NV	40	3.10	0.001675	±2.5	PASS
GSM1900	512	NV	45	-1.52	-0.000822	±2.5	PASS
GSM1900	661	NV	0	6.30	0.003351	±2.5	PASS
GSM1900	661	NV	10	6.20	0.003298	±2.5	PASS
GSM1900	661	NV	20	10.75	0.005718	±2.5	PASS
GSM1900	661	NV	30	11.30	0.006011	±2.5	PASS
GSM1900	661	NV	40	7.10	0.003777	±2.5	PASS
GSM1900	661	NV	45	6.75	0.003590	±2.5	PASS
GSM1900	810	NV	0	6.91	0.003618	±2.5	PASS
GSM1900	810	NV	10	7.20	0.003770	±2.5	PASS
GSM1900	810	NV	20	8.04	0.004210	±2.5	PASS
GSM1900	810	NV	30	9.04	0.004733	±2.5	PASS
GSM1900	810	NV	40	6.39	0.003346	±2.5	PASS
GSM1900	810	NV	45	10.07	0.005273	±2.5	PASS
GPRS1900	512	NV	0	-2.94	-0.001589	±2.5	PASS
GPRS1900	512	NV	10	-2.36	-0.001276	±2.5	PASS
GPRS1900	512	NV	20	0.58	0.000313	±2.5	PASS
GPRS1900	512	NV	30	-2.39	-0.001292	±2.5	PASS
GPRS1900	512	NV	40	2.32	0.001254	±2.5	PASS
GPRS1900	512	NV	45	0.58	0.000313	±2.5	PASS
GPRS1900	661	NV	0	3.00	0.001596	±2.5	PASS
GPRS1900	661	NV	10	0.36	0.000191	±2.5	PASS
GPRS1900	661	NV	20	0.19	0.000101	±2.5	PASS
GPRS1900	661	NV	30	0.84	0.000447	±2.5	PASS
GPRS1900	661	NV	40	6.62	0.003521	±2.5	PASS
GPRS1900	661	NV	45	4.10	0.002181	±2.5	PASS
GPRS1900	810	NV	0	-2.10	-0.001100	±2.5	PASS
GPRS1900	810	NV	10	4.75	0.002487	±2.5	PASS
GPRS1900	810	NV	20	-2.62	-0.001372	±2.5	PASS
GPRS1900	810	NV	30	2.03	0.001063	±2.5	PASS
GPRS1900	810	NV	40	4.78	0.002503	±2.5	PASS
GPRS1900	810	NV	45	0.74	0.000387	±2.5	PASS
EGPRS1900	512	NV	0	5.97	0.003227	±2.5	PASS
EGPRS1900	512	NV	10	5.81	0.003140	±2.5	PASS

EGPRS19 00	512	NV	20	5.52	0.002983	±2.5	PASS
EGPRS19 00	512	NV	30	4.97	0.002686	±2.5	PASS
EGPRS19 00	512	NV	40	4.07	0.002200	±2.5	PASS
EGPRS19 00	512	NV	45	6.01	0.003248	±2.5	PASS
EGPRS19 00	661	NV	0	8.01	0.004261	±2.5	PASS
EGPRS19 00	661	NV	10	6.59	0.003505	±2.5	PASS
EGPRS19 00	661	NV	20	9.27	0.004931	±2.5	PASS
EGPRS19 00	661	NV	30	5.13	0.002729	±2.5	PASS
EGPRS19 00	661	NV	40	5.26	0.002798	±2.5	PASS
EGPRS19 00	661	NV	45	9.43	0.005016	±2.5	PASS
EGPRS19 00	810	NV	0	1.00	0.000524	±2.5	PASS
EGPRS19 00	810	NV	10	3.71	0.001943	±2.5	PASS
EGPRS19 00	810	NV	20	10.36	0.005425	±2.5	PASS
EGPRS19 00	810	NV	30	6.55	0.003430	±2.5	PASS
EGPRS19 00	810	NV	40	3.75	0.001964	±2.5	PASS
EGPRS19 00	810	NV	45	4.71	0.002466	±2.5	PASS