

Appendix: GSM

Contents

Appendix A: Effective (Isotropic) Radiated Power Output Data.....	3
Test Result.....	3
Appendix B: Peak-to-Average Ratio(CCDF).....	5
Test Result.....	5
Test Graphs.....	6
Appendix C: 26dB Bandwidth and Occupied Bandwidth.....	12
Test Result.....	12
Test Graphs.....	13
Appendix D: Band Edge.....	19
Test Result.....	19
Test Graphs.....	20
Appendix E: Conducted Spurious Emission.....	24
Test Result.....	24
Test Graphs.....	26
Appendix F: Frequency Stability.....	59
Test Result.....	59

Appendix A: Effective (Isotropic) Radiated Power Output Data**Test Result**

Band	Channel	Slot	Conducted Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	—	32.82	32.82	38.45	PASS
GSM850	190	—	32.99	32.99	38.45	PASS
GSM850	251	—	32.84	32.84	38.45	PASS
GPRS850	128	1	32.82	32.82	38.45	PASS
GPRS850	128	2	32.13	32.13	38.45	PASS
GPRS850	128	3	30.19	30.19	38.45	PASS
GPRS850	128	4	28.90	28.90	38.45	PASS
GPRS850	190	1	32.95	32.95	38.45	PASS
GPRS850	190	2	32.36	32.36	38.45	PASS
GPRS850	190	3	30.51	30.51	38.45	PASS
GPRS850	190	4	29.26	29.26	38.45	PASS
GPRS850	251	1	32.78	32.78	38.45	PASS
GPRS850	251	2	32.12	32.12	38.45	PASS
GPRS850	251	3	30.23	30.23	38.45	PASS
GPRS850	251	4	28.94	28.94	38.45	PASS

Band	Channel	Slot	Conducted Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	—	29.75	29.75	33.01	PASS
GSM1900	661	—	29.83	29.83	33.01	PASS
GSM1900	810	—	29.82	29.82	33.01	PASS
GPRS1900	512	1	29.75	29.75	33.01	PASS
GPRS1900	512	2	29.09	29.09	33.01	PASS
GPRS1900	512	3	27.41	27.41	33.01	PASS
GPRS1900	512	4	26.22	26.22	33.01	PASS
GPRS1900	661	1	29.76	29.76	33.01	PASS
GPRS1900	661	2	29.12	29.12	33.01	PASS
GPRS1900	661	3	27.42	27.42	33.01	PASS
GPRS1900	661	4	26.22	26.22	33.01	PASS
GPRS1900	810	1	29.74	29.74	33.01	PASS
GPRS1900	810	2	29.12	29.12	33.01	PASS
GPRS1900	810	3	27.41	27.41	33.01	PASS
GPRS1900	810	4	26.14	26.14	33.01	PASS

Remark:

a. For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$ERP(dBm) = \text{Conducted output power}(dBm) + \text{antenna gain} (dBd)$

$EIRP(dBm) = \text{Conducted output power}(dBm) + \text{antenna gain} (dBi)$

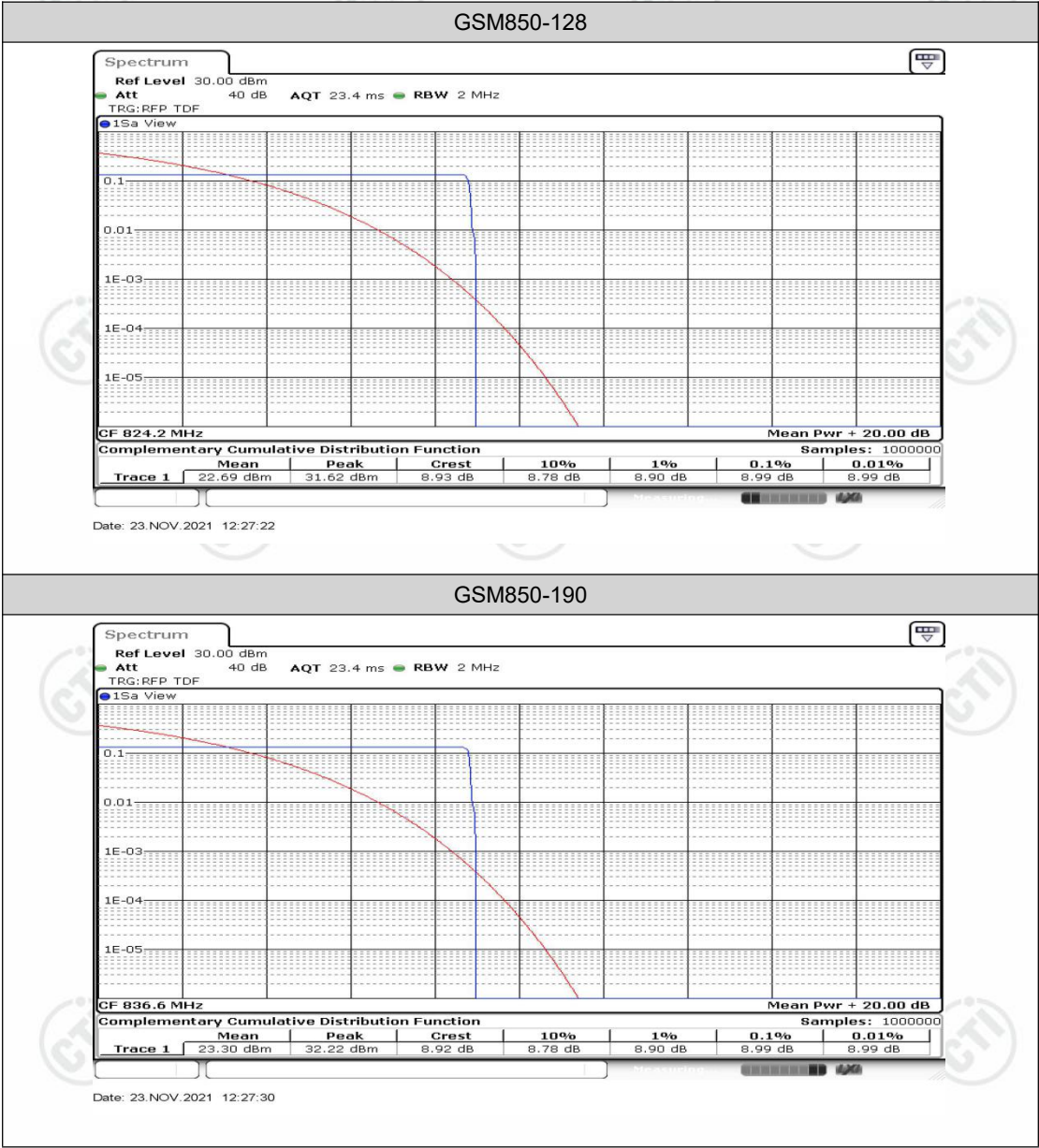
$EIRP = ERP + 2.15dB$

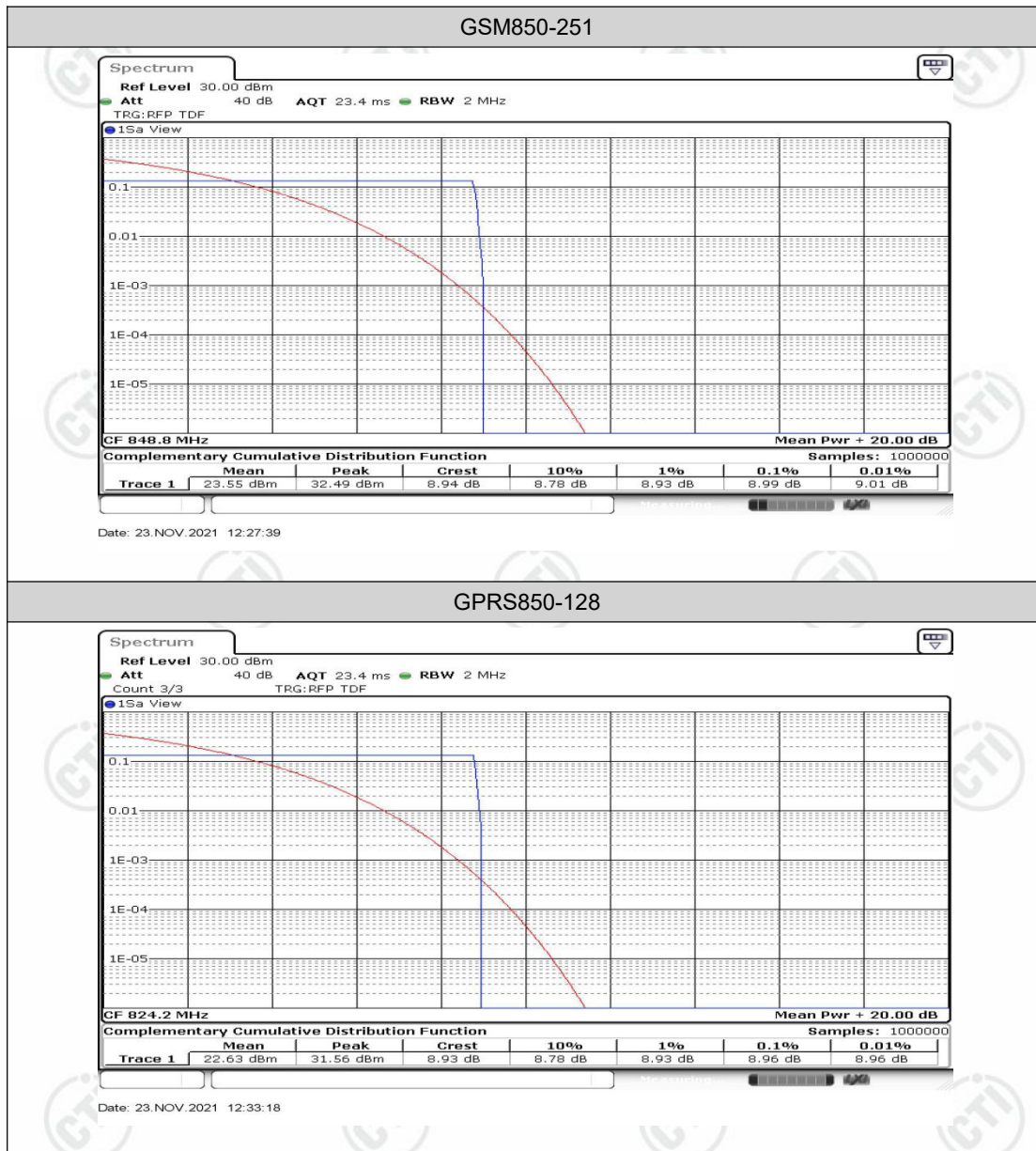
Appendix B: Peak-to-Average Ratio(CCDF)

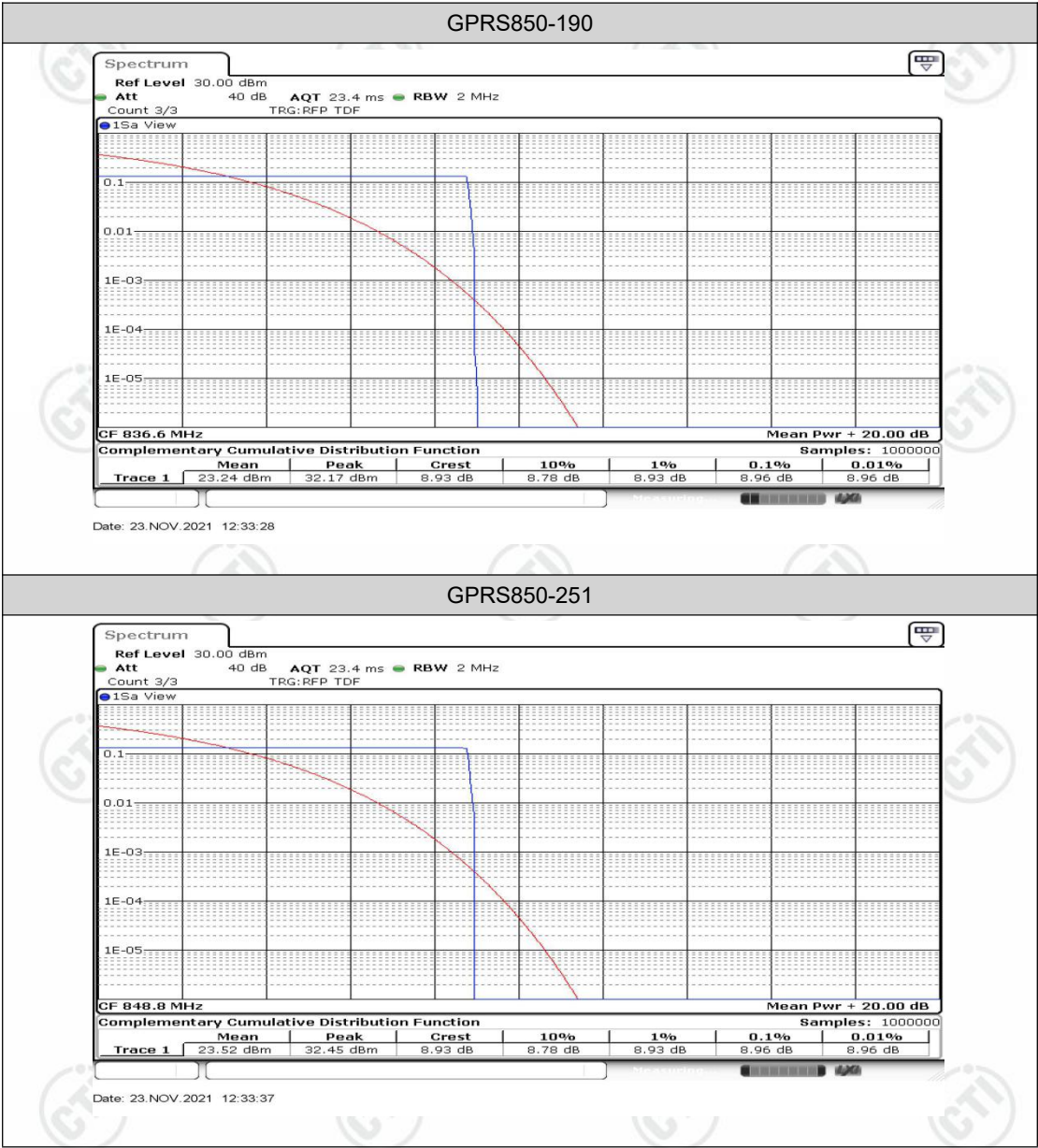
Test Result

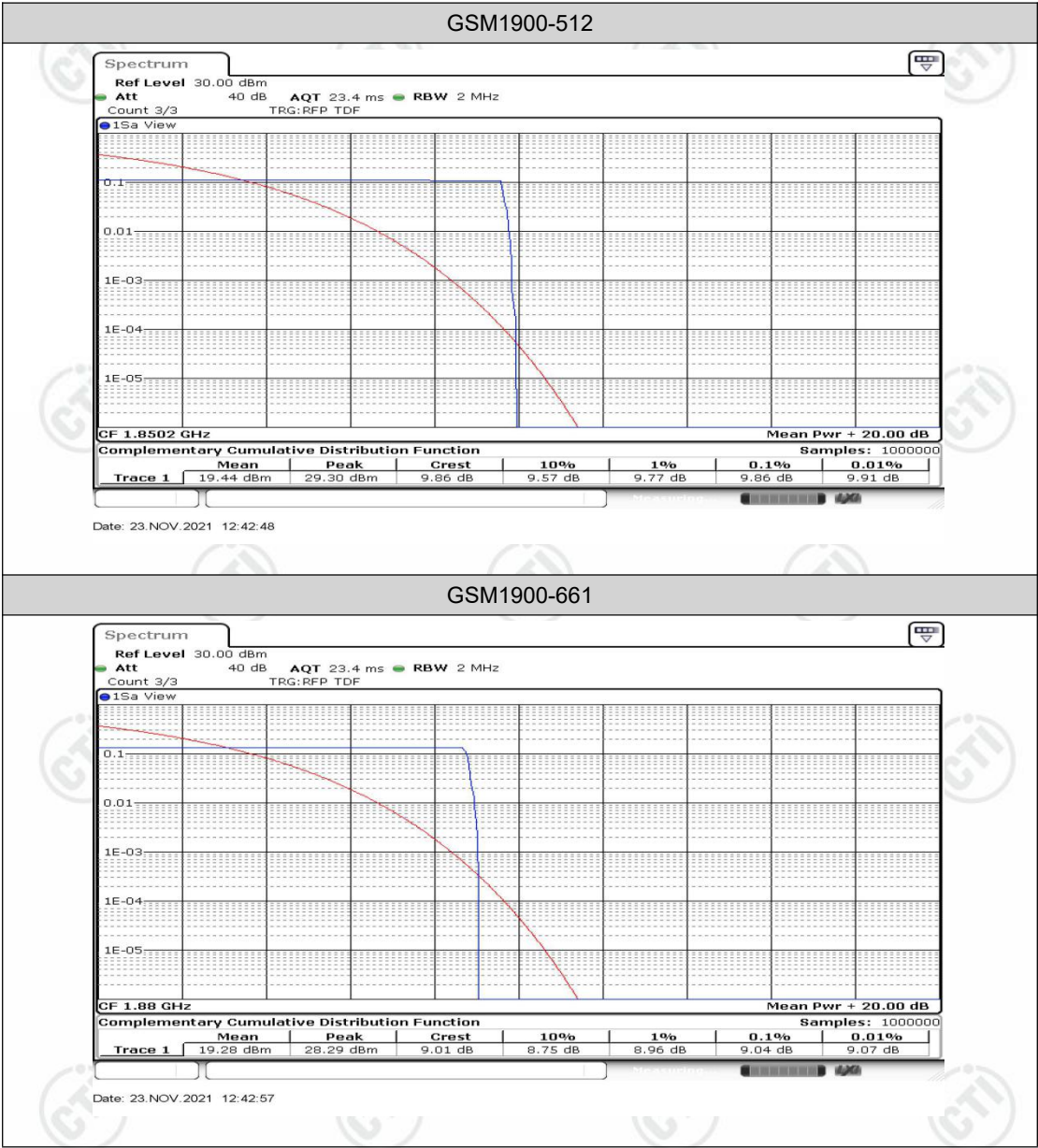
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.99	13	PASS
GSM850	190	8.99	13	PASS
GSM850	251	8.99	13	PASS
GPRS850	128	8.96	13	PASS
GPRS850	190	8.96	13	PASS
GPRS850	251	8.96	13	PASS
GSM1900	512	9.86	13	PASS
GSM1900	661	9.04	13	PASS
GSM1900	810	9.01	13	PASS
GPRS1900	512	9.86	13	PASS
GPRS1900	661	9.88	13	PASS
GPRS1900	810	9.04	13	PASS

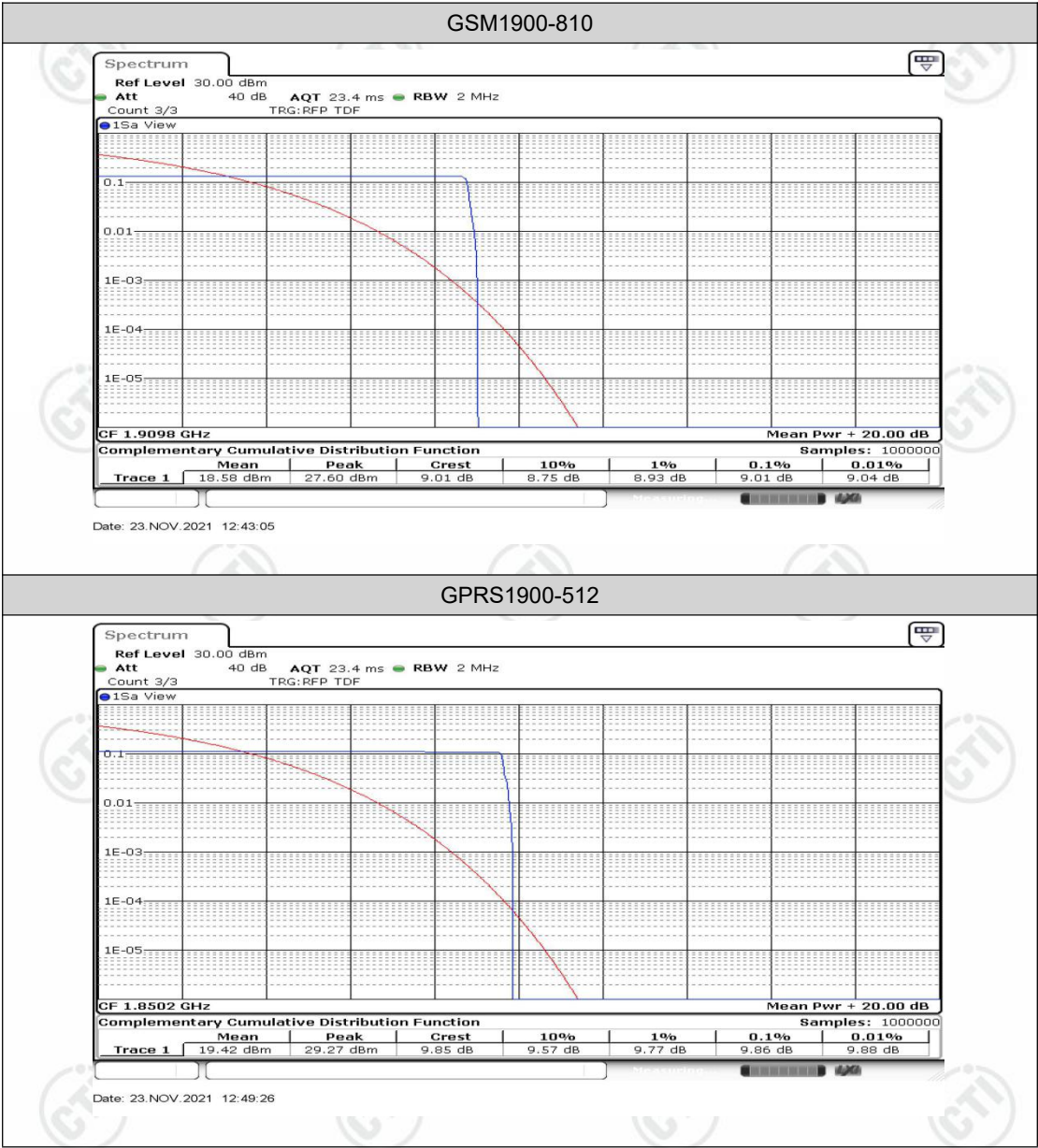
Test Graphs

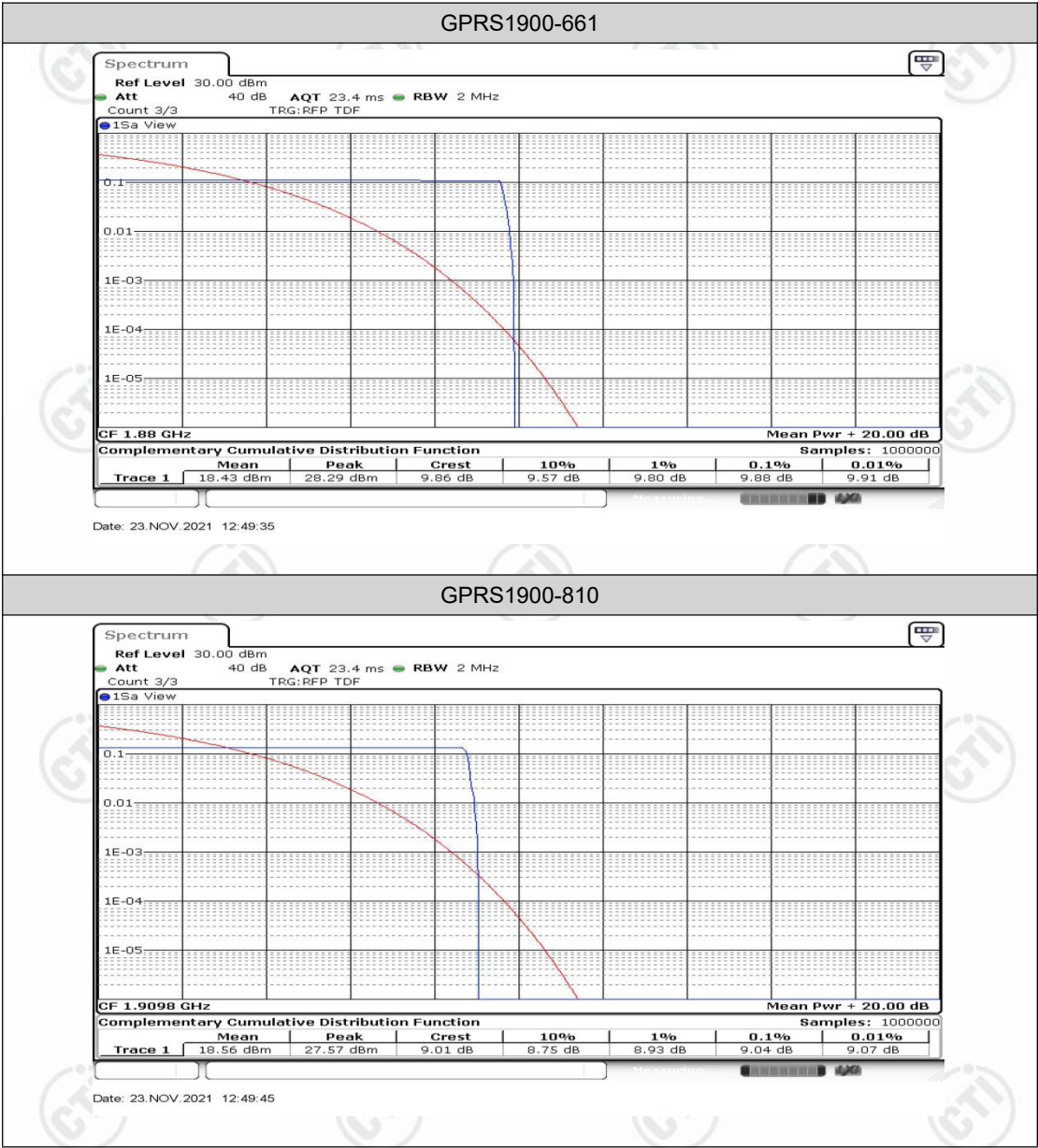












Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.248	0.321	---	PASS
GSM850	190	0.248	0.322	---	PASS
GSM850	251	0.248	0.322	---	PASS
GPRS850	128	0.247	0.321	---	PASS
GPRS850	190	0.248	0.322	---	PASS
GPRS850	251	0.248	0.321	---	PASS
GSM1900	512	0.249	0.322	---	PASS
GSM1900	661	0.249	0.320	---	PASS
GSM1900	810	0.249	0.320	---	PASS
GPRS1900	512	0.248	0.321	---	PASS
GPRS1900	661	0.249	0.322	---	PASS
GPRS1900	810	0.248	0.322	---	PASS

Test Graphs

