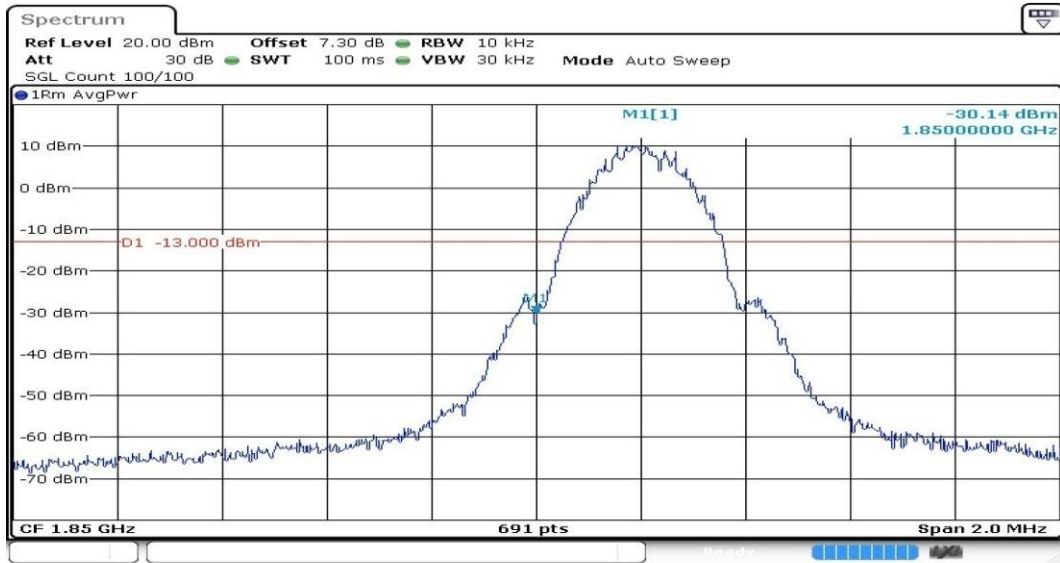
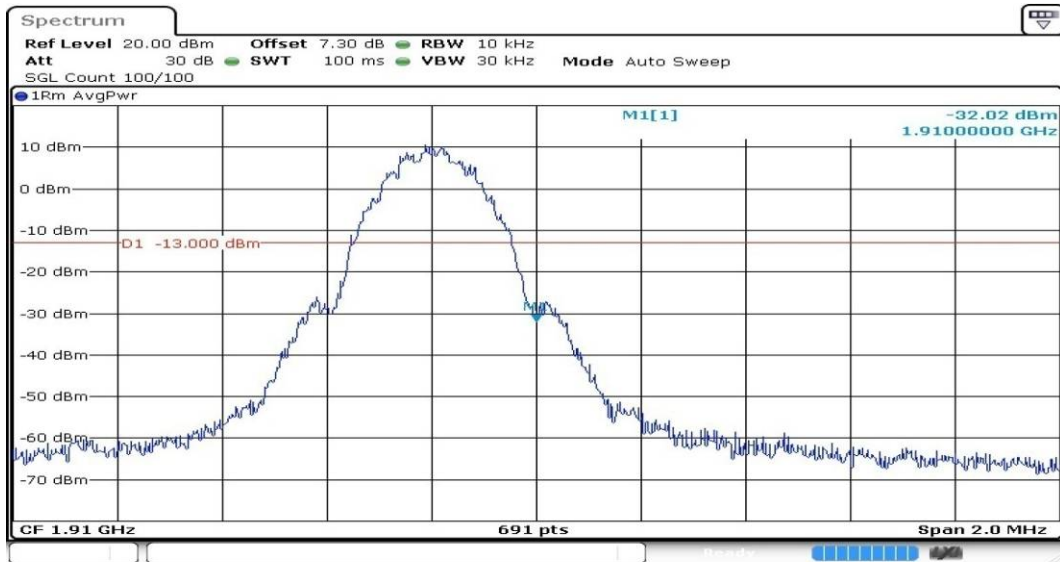


GPRS MODE:



Date: 24.DEC.2020 16:37:46

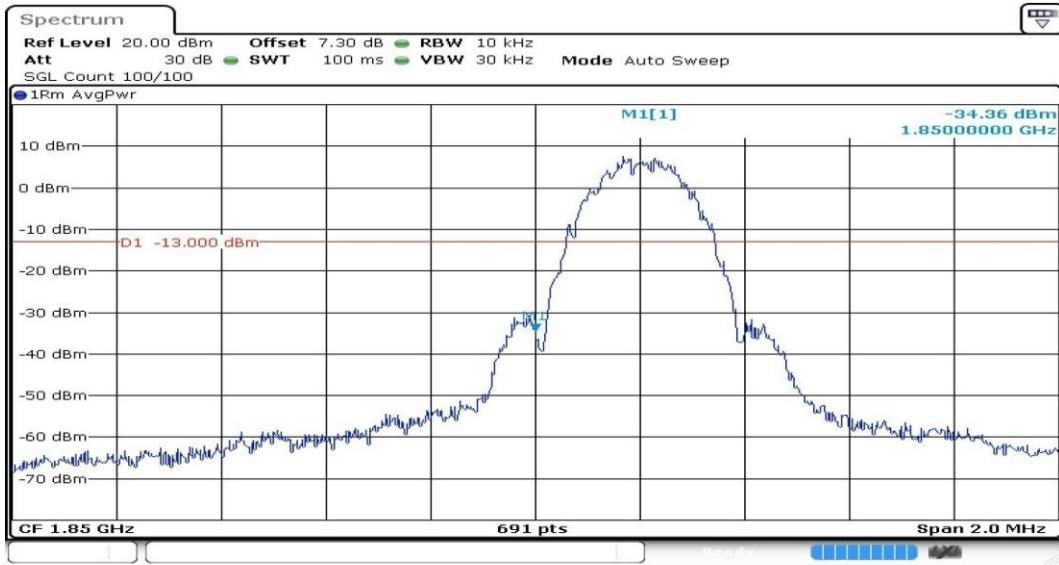
Channel 512



Date: 24.DEC.2020 16:39:57

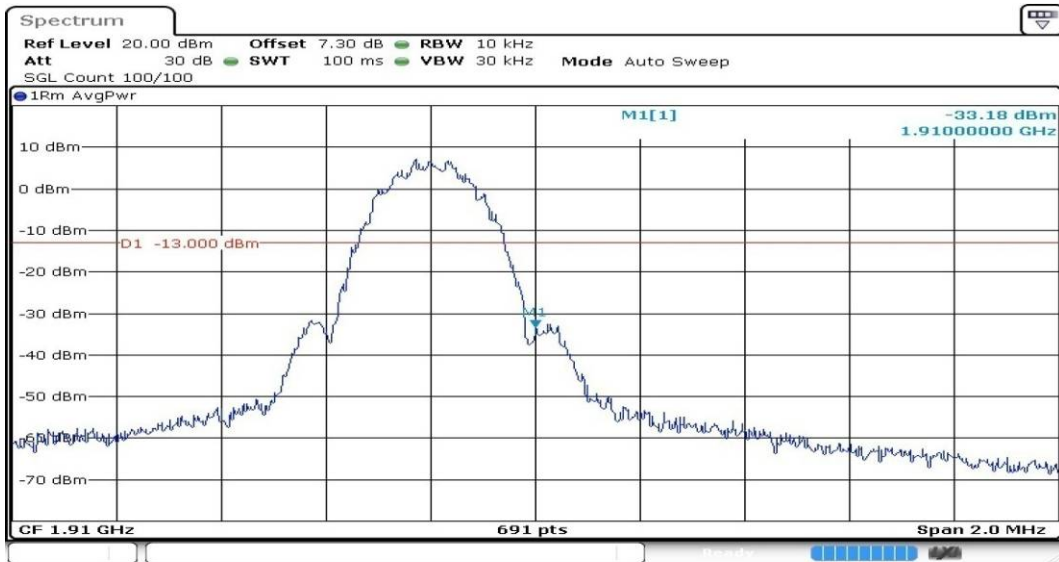
Channel 810

EDGE (8PSK) MODE:



Date: 24.DEC.2020 16:51:19

Channel 512



Date: 24.DEC.2020 16:53:32

Channel 810

### Frequency Stability

#### GSM850

GSM MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 128	Channel 189	Channel 251
-20	-0.001	0.005	0.005
-10	-0.003	0.002	0.009
0	0.003	0.009	0.011
+10	0.007	0.005	0.014
+20	0.000	0.000	0.000
+30	0.009	0.011	0.010
+40	0.011	0.021	0.015
+50	0.017	0.014	0.015
+60	0.005	-0.002	-0.006
Voltage	Test Result (ppm)@NT		
	Channel 128	Channel 189	Channel 251
LV	-0.003	-0.001	0.001
HV	-0.003	-0.002	0.001

GPRS MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 128	Channel 189	Channel 251
-20	0.005	-0.007	0.000
-10	0.002	-0.002	0.003
0	0.000	-0.010	0.003
+10	-0.001	-0.001	0.000
+20	0.000	0.000	0.000
+30	-0.005	-0.007	0.001
+40	0.001	-0.011	0.001
+50	-0.006	-0.008	-0.002
+60	-0.002	-0.004	-0.004
Voltage	Test Result (ppm)@NT		
	Channel 128	Channel 189	Channel 251
LV	0.007	-0.005	0.002
HV	0.000	-0.002	0.002

EDGE (8PSK) MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 128	Channel 189	Channel 251
-20	0.003	0.005	0.001
-10	0.003	0.002	-0.001
0	0.001	0.003	0.001
+10	0.004	0.002	0.002
+20	0.000	0.000	0.000
+30	0.002	0.003	0.001
+40	0.003	0.000	0.001
+50	0.006	0.001	0.001
+60	0.004	0.001	0.002
Voltage	Test Result (ppm)@NT		
	Channel 128	Channel 189	Channel 251
LV	0.003	0.000	-0.005
HV	0.006	-0.001	-0.001

**PCS1900**

GSM MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-20	0.000	0.006	0.000
-10	0.001	0.004	0.003
0	0.006	0.007	-0.001
+10	0.001	0.002	-0.001
+20	0.000	0.000	0.000
+30	0.001	0.002	-0.001
+40	0.000	0.002	0.000
+50	0.002	0.000	0.000
+60	0.000	0.004	0.001
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	0.003	0.000	0.000
HV	0.000	0.000	0.001

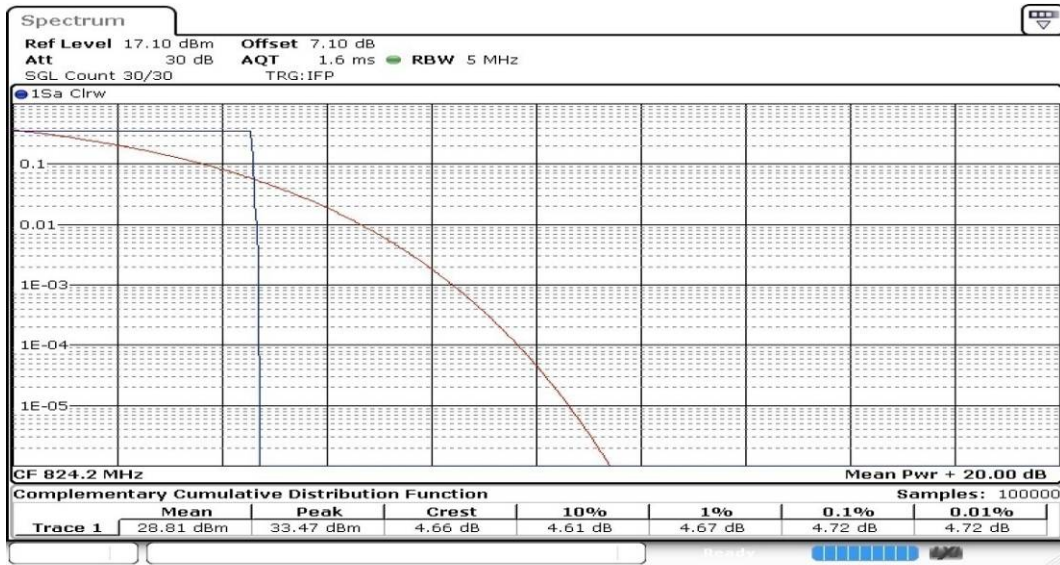
GPRS MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-20	0.001	-0.001	0.001
-10	0.001	0.000	0.000
0	0.002	0.001	0.000
+10	0.001	-0.002	0.000
+20	0.000	0.000	0.000
+30	0.002	-0.001	-0.001
+40	0.001	-0.001	0.001
+50	-0.001	0.000	-0.001
+60	0.002	-0.002	0.000
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	0.001	0.000	0.001
HV	0.001	-0.003	0.003

EDGE (8PSK) MODE:

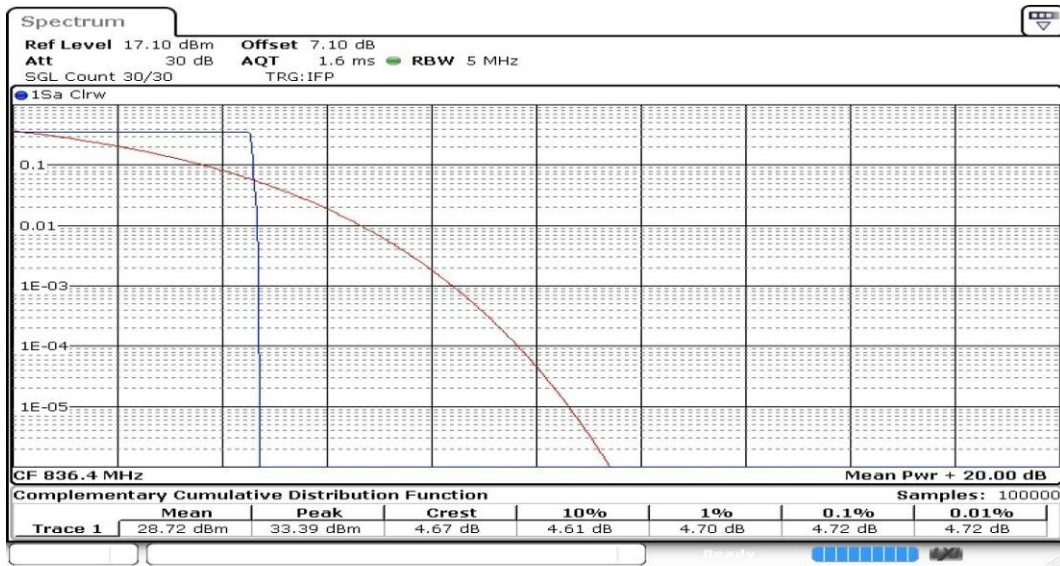
Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-20	-0.001	0.000	-0.003
-10	-0.003	-0.002	-0.003
0	-0.003	-0.003	-0.002
+10	-0.003	0.001	0.000
+20	0.000	0.000	0.000
+30	-0.002	-0.004	0.000
+40	-0.001	0.001	-0.002
+50	0.000	-0.001	0.000
+60	-0.001	-0.003	-0.001
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	-0.002	-0.001	-0.001
HV	-0.001	0.001	-0.001

**Peak-Average Ratio**  
**GSM850**  
GSM MODE:



Date: 24.DEC.2020 15:30:10

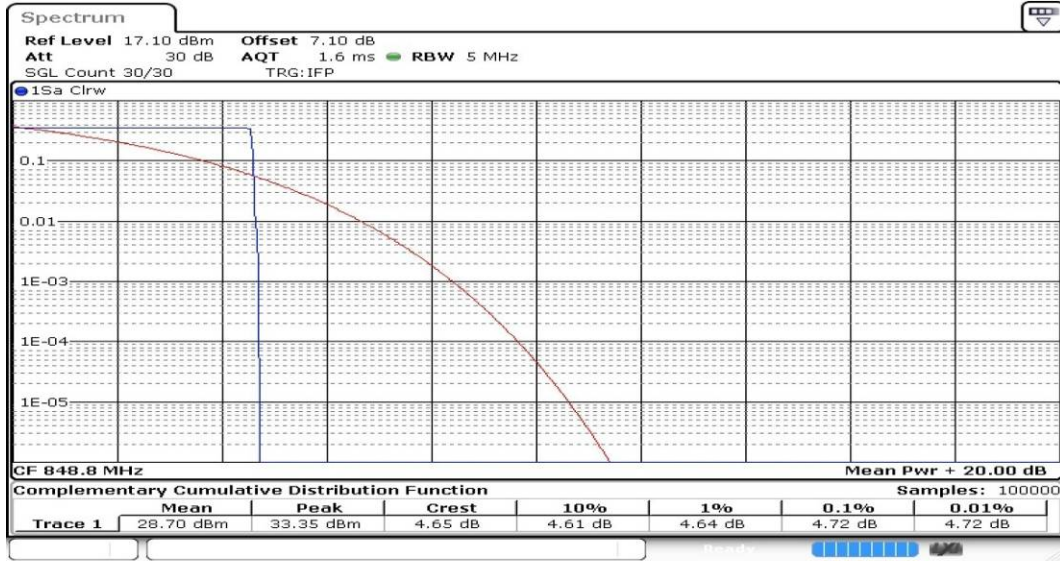
Channel 128



Date: 24.DEC.2020 15:31:13

Channel 189

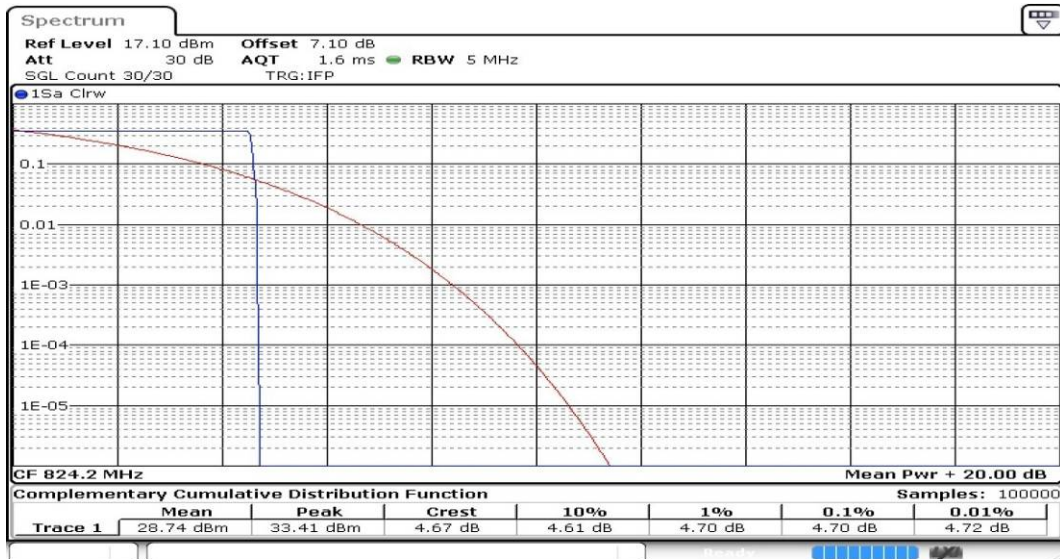




Date: 24.DEC.2020 15:31:57

Channel 251

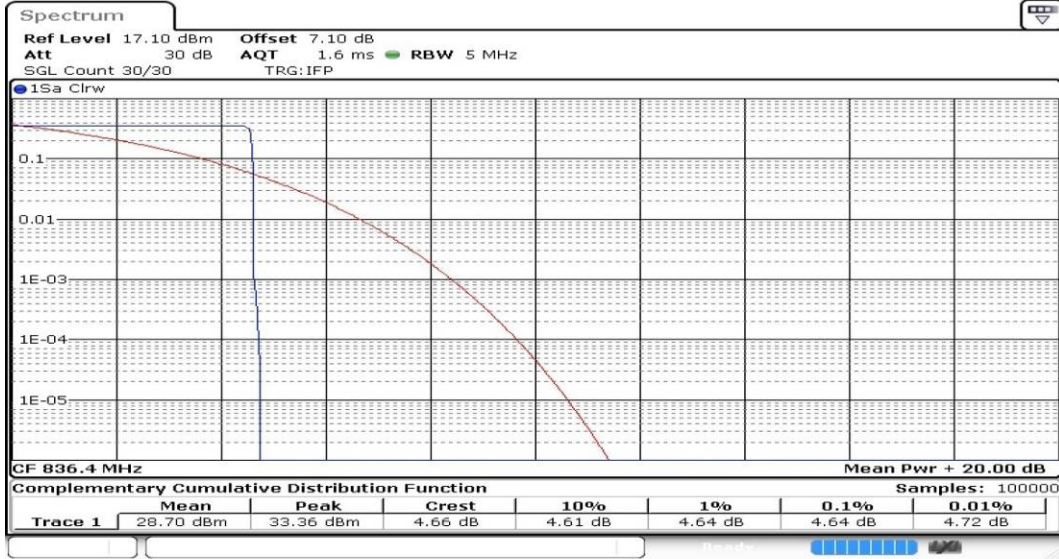
GPRS MODE:



Date: 24.DEC.2020 15:44:03

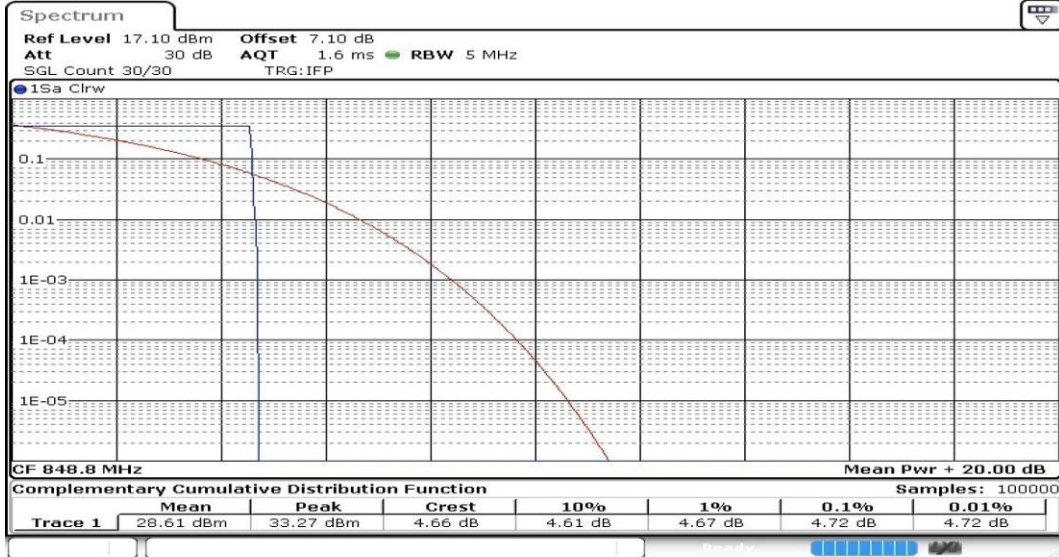
Channel 128





Date: 24.DEC.2020 15:45:17

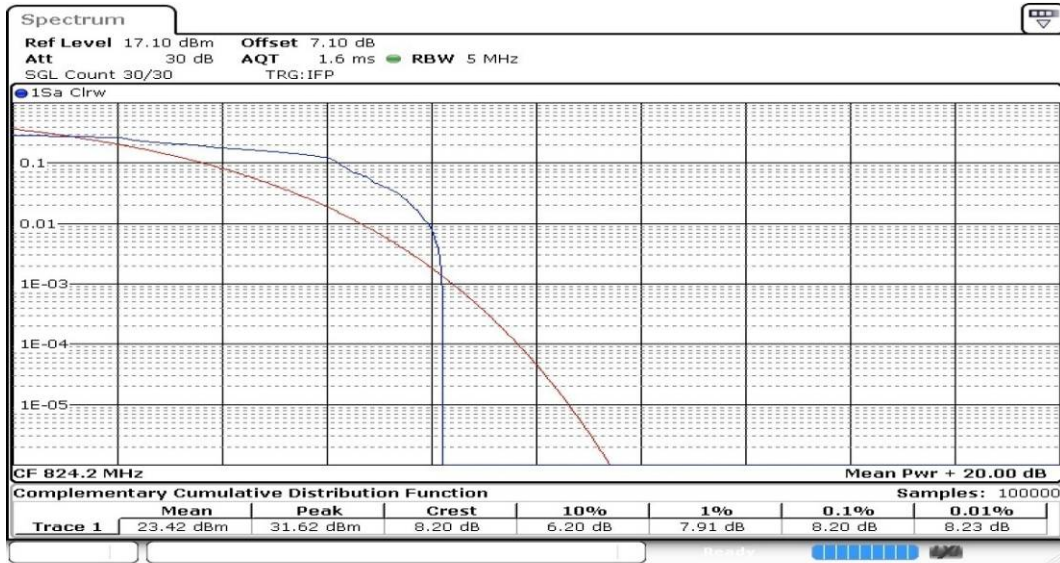
Channel 189



Date: 24.DEC.2020 15:46:11

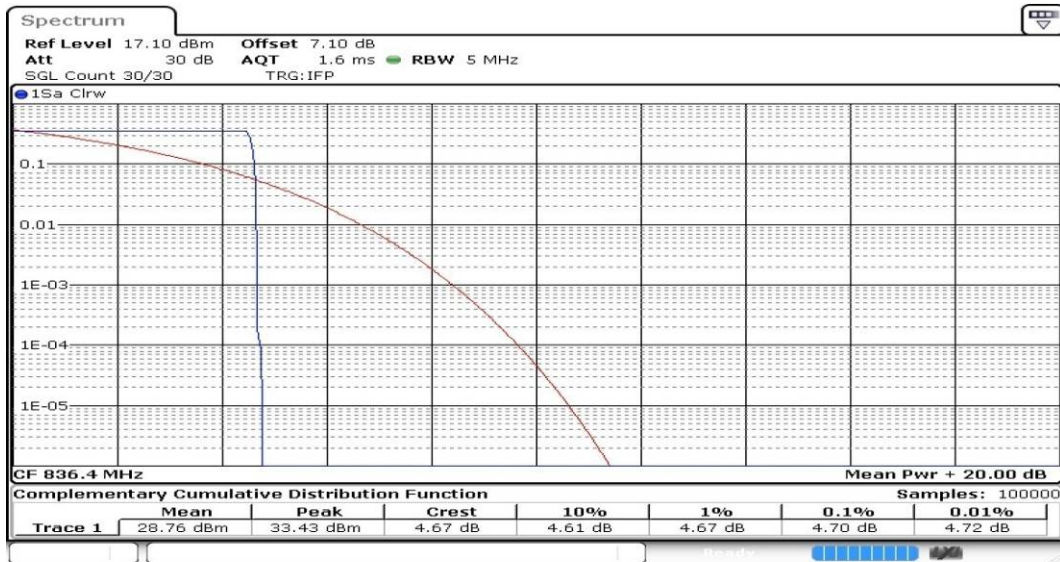
Channel 251

EDGE (8PSK) MODE:



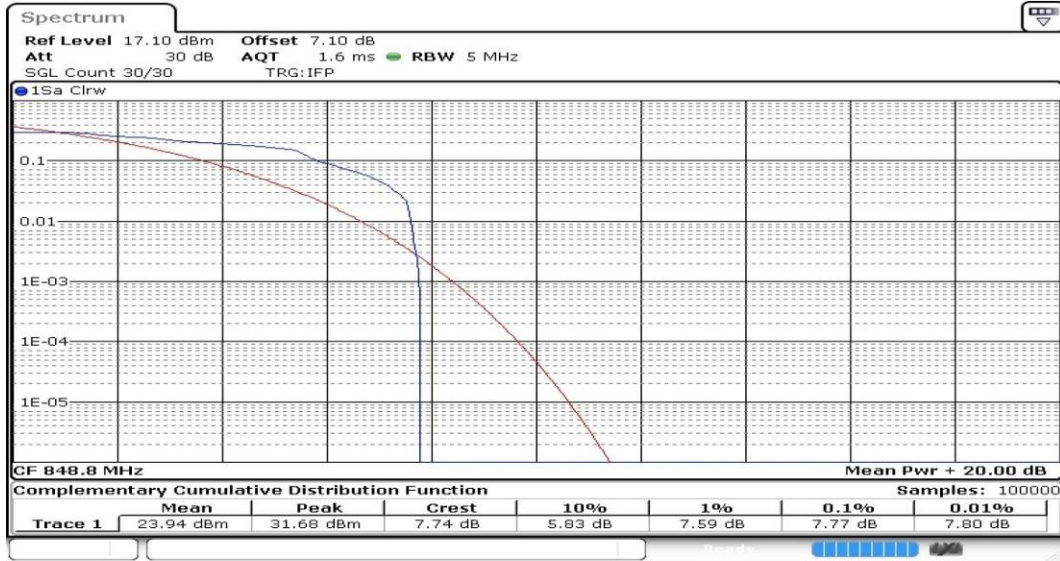
Date: 24.DEC.2020 15:55:56

Channel 128



Date: 24.DEC.2020 15:57:10

Channel 189

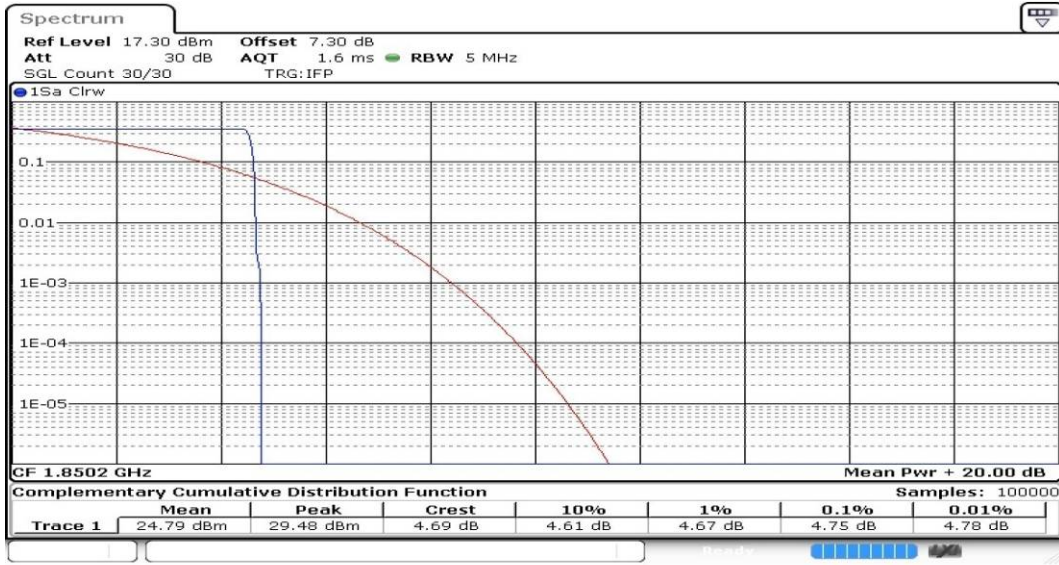


Date: 24.DEC.2020 15:58:05

Channel 251

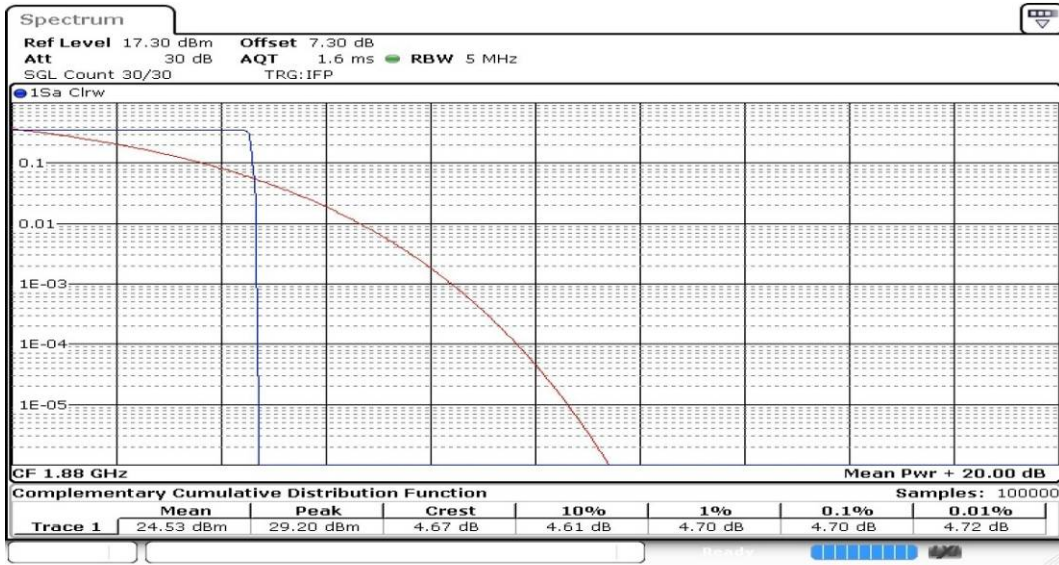


PCS1900  
GSM MODE:



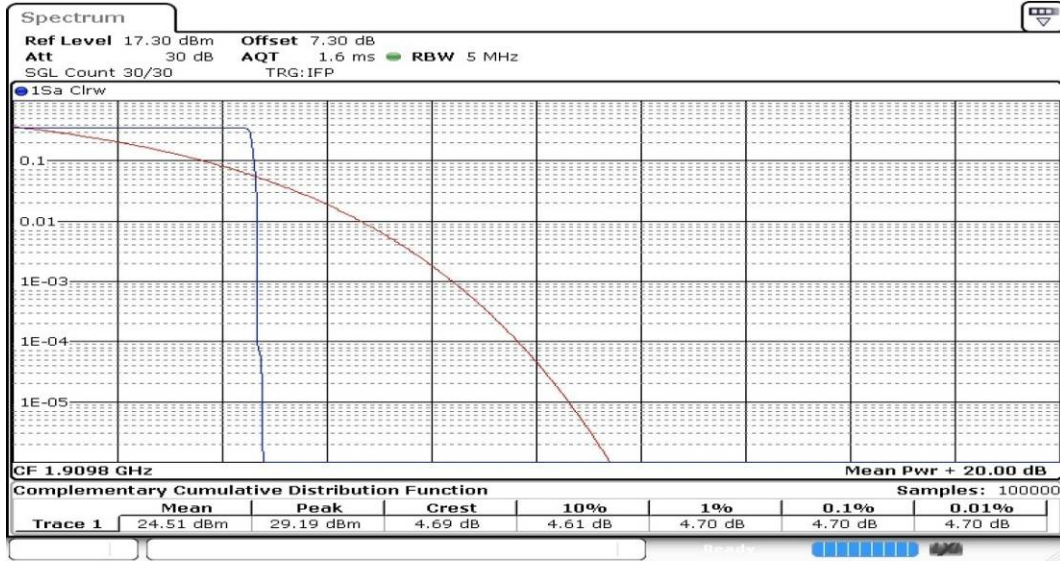
Date: 24.DEC.2020 16:31:34

Channel 512



Date: 24.DEC.2020 16:32:39

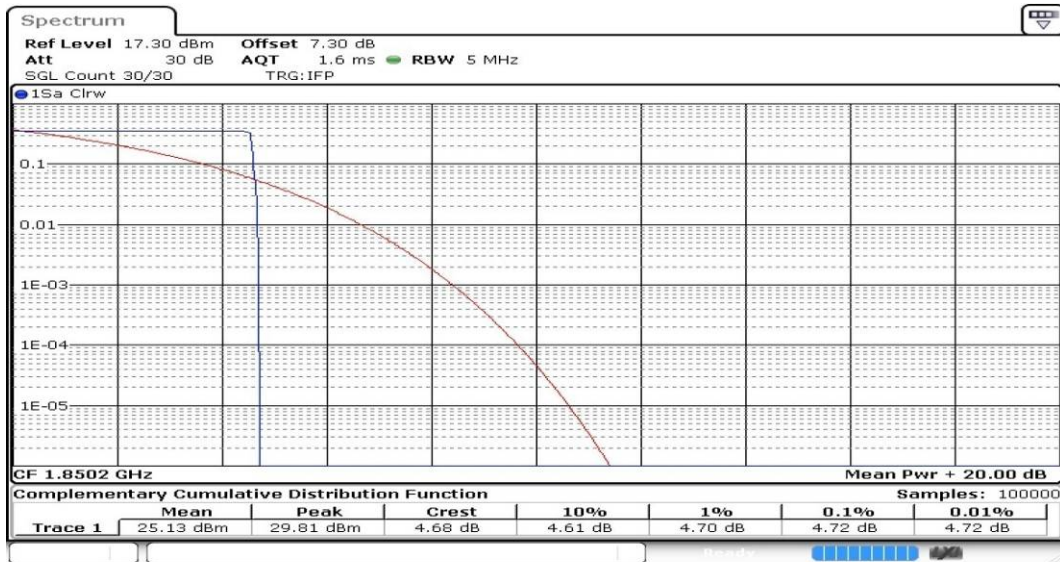
Channel 661



Date: 24.DEC.2020 16:33:24

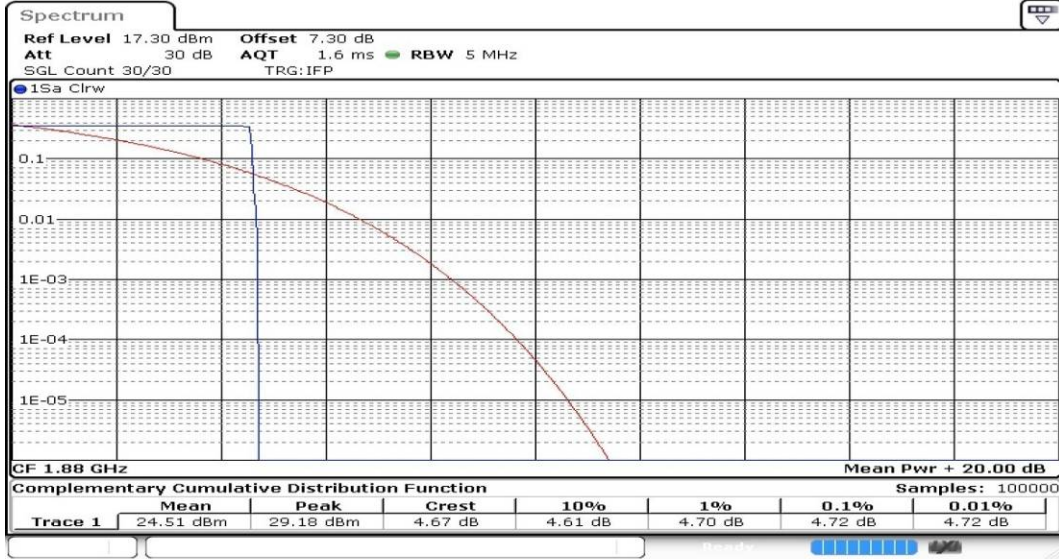
Channel 810

GPRS MODE:



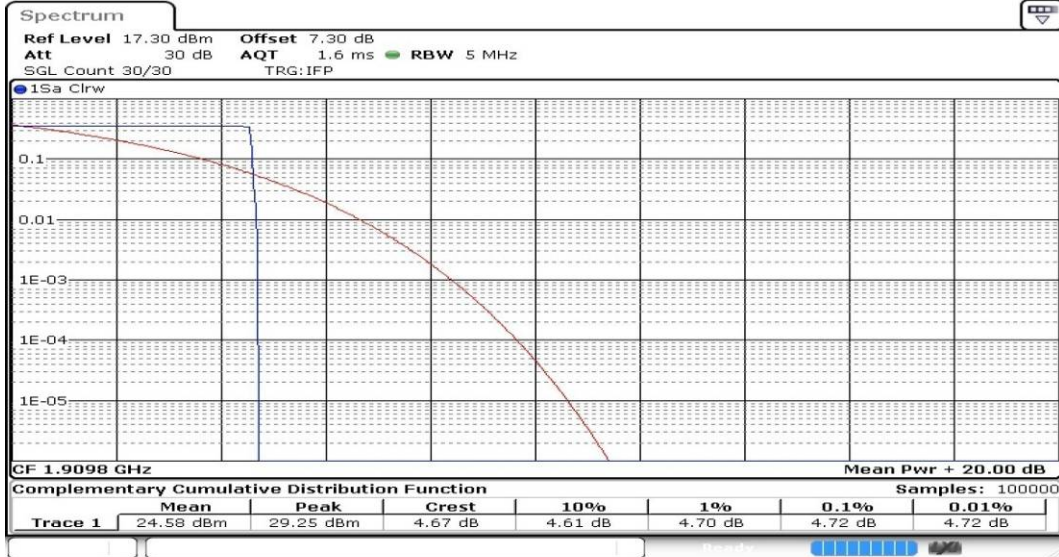
Date: 24.DEC.2020 16:37:09

Channel 512



Date: 24.DEC.2020 16:38:24

Channel 661

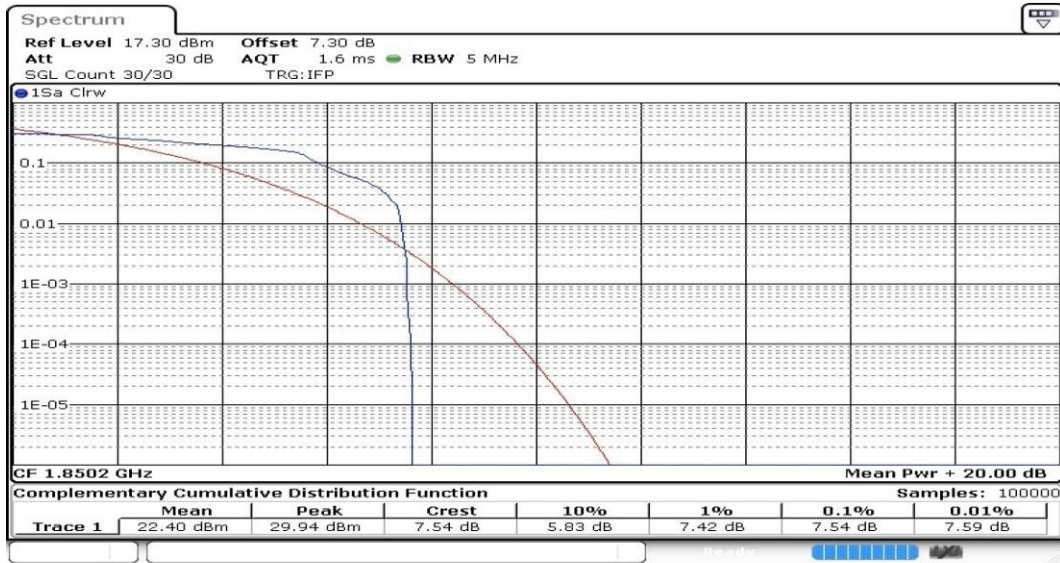


Date: 24.DEC.2020 16:39:20

Channel 810

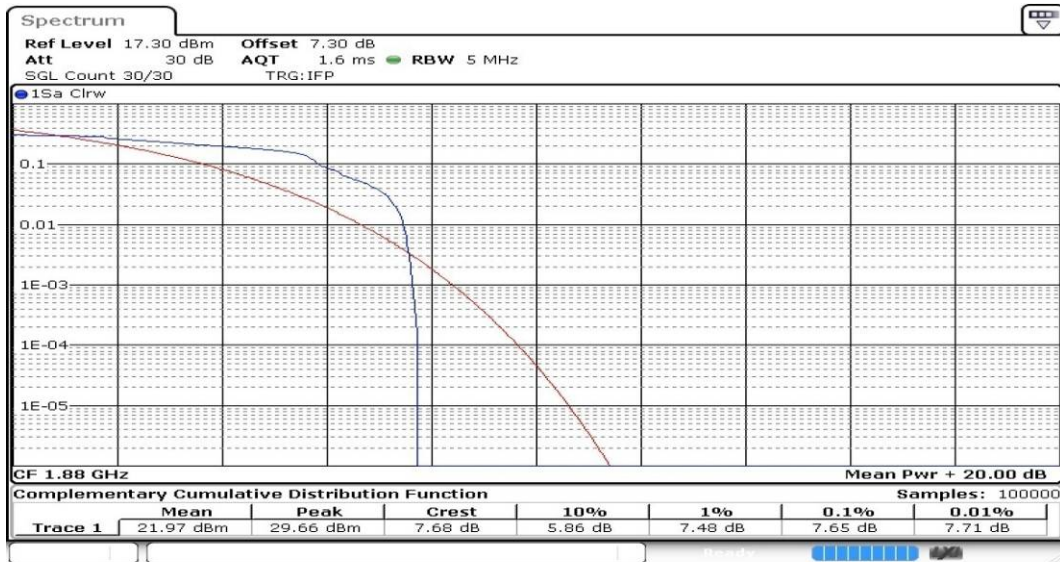


EDGE (8PSK) MODE:



Date: 24.DEC.2020 16:50:42

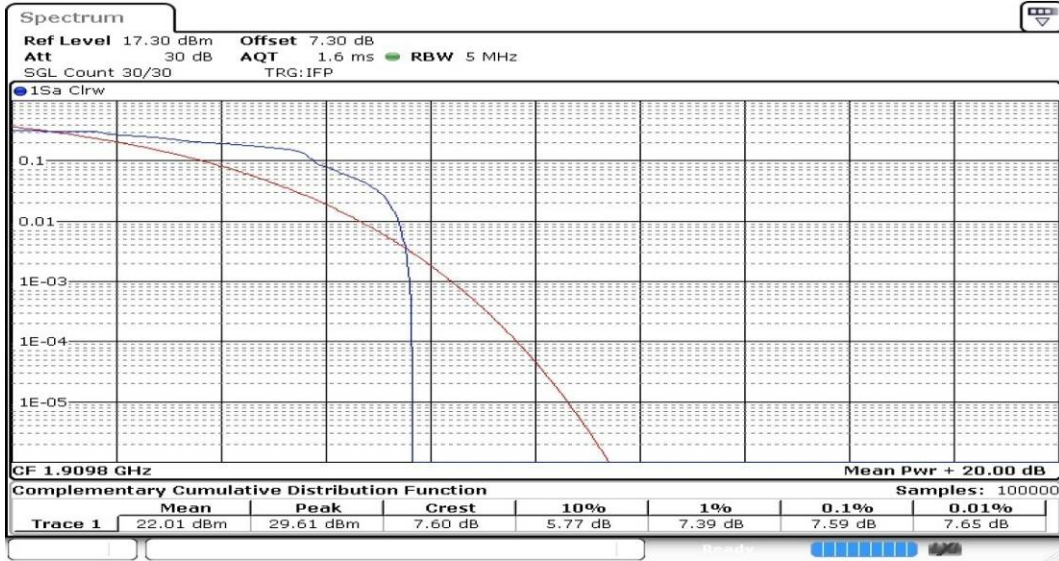
Channel 512



Date: 24.DEC.2020 16:51:58

Channel 661





Date: 24.DEC.2020 16:52:55

Channel 810

### Effective Radiated Power and Effective Isotropic Radiated Power

#### GSM850

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	128	33.93	28.07	0.641
836.4	189	33.85	27.99	0.630
848.8	251	33.76	27.90	0.617

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Moce	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	128	4Downlink1uplink	33.92	28.06	0.640
836.4	189		33.85	27.99	0.630
848.8	251		33.76	27.90	0.617
824.2	128	3Downlink2uplink	31.36	25.50	0.355
836.4	189		31.36	25.50	0.355
848.8	251		31.27	25.41	0.348
824.2	128	2Downlink3uplink	29.29	23.43	0.220
836.4	189		29.30	23.44	0.221
848.8	251		29.33	23.47	0.222
824.2	128	1Downlink4uplink	29.08	23.22	0.210
836.4	189		29.11	23.25	0.211
848.8	251		29.16	23.30	0.214

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Moce	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	128	8PSK 4Downlink1uplink	29.04	23.18	0.208
836.4	189		30.51	24.65	0.292
848.8	251		28.94	23.08	0.203
824.2	128	8PSK 3Downlink2uplink	27.27	21.41	0.138
836.4	189		27.23	21.37	0.137
848.8	251		27.19	21.33	0.136
824.2	128	8PSK 2Downlink3uplink	23.69	17.83	0.061
836.4	189		23.70	17.84	0.061
848.8	251		23.61	17.75	0.060
824.2	128	8PSK 1Downlink4uplink	23.70	17.84	0.061
836.4	189		23.59	17.73	0.059
848.8	251		23.54	17.68	0.059

**PCS1900**

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	512	29.92	29.36	0.863
836.4	661	29.60	29.04	0.802
848.8	810	29.63	29.07	0.807

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Moce	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	512	4Downlink1uplink	29.90	29.34	0.859
836.4	661		29.60	29.04	0.802
848.8	810		29.72	29.16	0.824
824.2	512	3Downlink2uplink	28.89	20.93	0.124
836.4	661		28.71	20.82	0.121
848.8	810		28.83	20.81	0.121
824.2	512	2Downlink3uplink	27.67	20.56	0.114
836.4	661		27.41	20.52	0.113
848.8	810		27.53	20.48	0.112
824.2	512	1Downlink4uplink	26.72	20.44	0.111
836.4	661		26.35	28.35	0.684
848.8	810		26.60	28.60	0.724

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Moce	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	512	8PSK 4Downlink1uplink	27.19	26.63	0.460
836.4	661		26.92	26.36	0.433
848.8	810		26.96	26.40	0.437
824.2	512	8PSK 3Downlink2uplink	25.77	20.93	0.124
836.4	661		25.32	20.82	0.121
848.8	810		25.54	20.81	0.121
824.2	512	8PSK 2Downlink3uplink	22.47	20.56	0.114
836.4	661		23.09	20.52	0.113
848.8	810		22.19	20.48	0.112
824.2	512	8PSK 1Downlink4uplink	22.22	20.44	0.111
836.4	661		22.63	24.63	0.290
848.8	810		21.94	23.94	0.248

## **APPENDIX B – TEST DATA OF RADIATED EMISSION**

### **Radiated Spurious Emissions**

#### **GSM850**

Test result:

GSM/GPRS MODE Channel 128:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.64	-52.53	-13	Vertical
1665.15	-51.11	-13	Vertical
2534.10	-44.40	-13	Vertical
2576.17	-44.66	-13	Vertical
8961.06	-39.71	-13	Vertical
9970.99	-36.56	-13	Vertical

EDGE (8PSK) MODE Channel 128:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.81	-52.85	-13	Vertical
1665.11	-51.54	-13	Vertical
2535.49	-44.10	-13	Vertical
2577.69	-44.13	-13	Vertical
8961.87	-39.63	-13	Vertical
9970.14	-36.52	-13	Vertical

GSM/GPRS MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.08	-53.35	-13	Vertical
1667.59	-50.92	-13	Vertical
2534.78	-44.04	-13	Vertical
2575.48	-43.82	-13	Vertical
8960.99	-39.42	-13	Vertical
9972.20	-36.70	-13	Vertical

EDGE (8PSK) MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.69	-52.51	-13	Vertical
1666.03	-51.46	-13	Vertical
2533.49	-44.29	-13	Vertical
2576.17	-43.74	-13	Vertical
8961.40	-39.76	-13	Vertical
9970.25	-36.02	-13	Vertical

GSM/GPRS MODE Channel 251:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.52	-53.37	-13	Vertical
1667.28	-51.45	-13	Vertical
2532.94	-44.52	-13	Vertical
2576.82	-43.89	-13	Vertical
8962.08	-39.80	-13	Vertical
9973.26	-36.48	-13	Vertical

EDGE (8PSK) MODE Channel 251:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.10	-52.59	-13	Vertical
1666.96	-51.13	-13	Vertical
2533.47	-44.50	-13	Vertical
2577.77	-44.30	-13	Vertical
8961.20	-39.94	-13	Vertical
9973.19	-36.61	-13	Vertical

**GSM1900:**

Test result:

GSM/GPRS MODE Channel 512

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.92	-49.19	-13	Vertical
2779.38	-47.14	-13	Vertical
3724.81	-41.21	-13	Vertical
6676.10	-39.25	-13	Vertical
9962.37	-37.36	-13	Vertical
17818.45	-33.73	-13	Vertical

EDGE (8PSK) MODE Channel 512:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.15	-49.16	-13	Vertical
2779.41	-47.28	-13	Vertical
3725.81	-41.07	-13	Vertical
6678.04	-40.08	-13	Vertical
9960.96	-37.11	-13	Vertical
17818.81	-34.15	-13	Horizontal

GSM/GPRS MODE Channel 661:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.94	-49.07	-13	Vertical
2781.00	-47.75	-13	Vertical
3727.88	-40.51	-13	Vertical
6678.58	-39.65	-13	Vertical
9959.68	-37.21	-13	Vertical
17821.35	-34.29	-13	Vertical

EDGE (8PSK) MODE Channel 661:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.77	-48.62	-13	Vertical
2779.17	-47.29	-13	Vertical
3725.96	-40.84	-13	Vertical
6678.72	-39.26	-13	Vertical
9959.47	-37.56	-13	Vertical
17820.81	-34.12	-13	Vertical

GSM/GPRS MODE Channel 810:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.07	-48.76	-13	Vertical
2779.22	-47.75	-13	Vertical
3727.84	-41.08	-13	Vertical
6676.11	-39.35	-13	Vertical
9959.81	-36.87	-13	Vertical
17821.37	-33.70	-13	Vertical

EDGE (8PSK) MODE Channel 810:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.14	-49.26	-13	Vertical
2779.90	-47.13	-13	Vertical
3727.45	-41.03	-13	Vertical
6676.32	-39.45	-13	Vertical
9962.99	-37.23	-13	Vertical
17821.24	-34.17	-13	Vertical

**Secondary supply worst case result:**

Test result:  
GSM/GPRS MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1634.44	-51.44	-13	Vertical
1672.54	-50.65	-13	Vertical
2523.16	-44.49	-13	Vertical
2589.55	-44.03	-13	Vertical
8933.66	-39.61	-13	Vertical
9968.59	-37.26	-13	Vertical

---End of Test Report---