

Appendix B.16

LTE Band 71



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.41	20.63	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.48	20.7	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.22	20.44	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.43	19.65	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.25	20.47	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.4	20.62	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.26	20.48	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.33	19.55	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.36	20.58	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.26	20.48	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.18	20.4	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.26	19.48	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.47	19.69	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.5	19.72	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.64	19.86	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.5	18.72	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.45	19.67	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.49	19.71	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.36	19.58	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.35	18.57	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.42	19.64	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.46	19.68	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.27	19.49	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.23	18.45	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#0	21.53	18.75	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#12	21.55	18.77	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#24	21.76	18.98	34.77	PASS
Band71	5MHz	64QAM	133147	25RB#0	20.39	17.61	34.77	PASS



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Band71	5MHz	64QAM	133297	1RB#0	21.35	18.57	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#12	21.66	18.88	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#24	21.39	18.61	34.77	PASS
Band71	5MHz	64QAM	133297	25RB#0	20.27	17.49	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#0	21.36	18.58	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#12	21.49	18.71	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#24	21.3	18.52	34.77	PASS
Band71	5MHz	64QAM	133447	25RB#0	20.26	17.48	34.77	PASS
Band71	5MHz	256QAM	133147	1RB#0	18.35	15.57	34.77	PASS
Band71	5MHz	256QAM	133147	1RB#12	18.55	15.77	34.77	PASS
Band71	5MHz	256QAM	133147	1RB#24	18.31	15.53	34.77	PASS
Band71	5MHz	256QAM	133147	25RB#0	18.38	15.6	34.77	PASS
Band71	5MHz	256QAM	133297	1RB#0	18.37	15.59	34.77	PASS
Band71	5MHz	256QAM	133297	1RB#12	18.44	15.66	34.77	PASS
Band71	5MHz	256QAM	133297	1RB#24	18.47	15.69	34.77	PASS
Band71	5MHz	256QAM	133297	25RB#0	18.46	15.68	34.77	PASS
Band71	5MHz	256QAM	133447	1RB#0	18.3	15.52	34.77	PASS
Band71	5MHz	256QAM	133447	1RB#12	18.35	15.57	34.77	PASS
Band71	5MHz	256QAM	133447	1RB#24	18.16	15.38	34.77	PASS
Band71	5MHz	256QAM	133447	25RB#0	18.33	15.55	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.41	20.63	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.43	20.65	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.34	20.56	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.42	19.64	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.52	20.74	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.39	20.61	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.41	20.63	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.33	19.55	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.41	20.63	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.25	20.47	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.22	20.44	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.29	19.51	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.57	19.79	34.77	PASS



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Band71	10MHz	16QAM	133172	1RB#24	22.53	19.75	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.47	19.69	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.41	18.63	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.54	19.76	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.35	19.57	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.44	19.66	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.33	18.55	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.5	19.72	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.31	19.53	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.24	19.46	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.31	18.53	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#0	21.56	18.78	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#24	21.71	18.93	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#49	21.59	18.81	34.77	PASS
Band71	10MHz	64QAM	133172	50RB#0	20.42	17.64	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#0	21.6	18.82	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#24	21.63	18.85	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#49	21.34	18.56	34.77	PASS
Band71	10MHz	64QAM	133297	50RB#0	20.36	17.58	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#0	21.56	18.78	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#24	21.38	18.6	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#49	21.33	18.55	34.77	PASS
Band71	10MHz	64QAM	133422	50RB#0	20.25	17.47	34.77	PASS
Band71	10MHz	256QAM	133172	1RB#0	18.36	15.58	34.77	PASS
Band71	10MHz	256QAM	133172	1RB#24	18.55	15.77	34.77	PASS
Band71	10MHz	256QAM	133172	1RB#49	18.45	15.67	34.77	PASS
Band71	10MHz	256QAM	133172	50RB#0	18.44	15.66	34.77	PASS
Band71	10MHz	256QAM	133297	1RB#0	18.43	15.65	34.77	PASS
Band71	10MHz	256QAM	133297	1RB#24	18.56	15.78	34.77	PASS
Band71	10MHz	256QAM	133297	1RB#49	18.36	15.58	34.77	PASS
Band71	10MHz	256QAM	133297	50RB#0	18.24	15.46	34.77	PASS
Band71	10MHz	256QAM	133422	1RB#0	18.35	15.57	34.77	PASS
Band71	10MHz	256QAM	133422	1RB#24	18.4	15.62	34.77	PASS



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Band71	10MHz	256QAM	133422	1RB#49	18.12	15.34	34.77	PASS
Band71	10MHz	256QAM	133422	50RB#0	18.29	15.51	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.29	20.51	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.27	20.49	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.21	20.43	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.32	19.54	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.52	20.74	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.18	20.4	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.09	20.31	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.17	19.39	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.36	20.58	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.33	20.55	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.98	20.2	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.19	19.41	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.31	19.53	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.29	19.51	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.29	19.51	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.41	18.63	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.36	19.58	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.42	19.64	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.24	19.46	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.25	18.47	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.48	19.7	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.34	19.56	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.03	19.25	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.22	18.44	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#0	21.72	18.94	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#38	21.35	18.57	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#74	21.3	18.52	34.77	PASS
Band71	15MHz	64QAM	133197	75RB#0	20.4	17.62	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#0	21.35	18.57	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#38	21.46	18.68	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#74	21.25	18.47	34.77	PASS



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Band71	15MHz	64QAM	133297	75RB#0	20.22	17.44	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#0	21.23	18.45	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#38	21.32	18.54	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#74	21.02	18.24	34.77	PASS
Band71	15MHz	64QAM	133397	75RB#0	20.22	17.44	34.77	PASS
Band71	15MHz	256QAM	133197	1RB#0	18.36	15.58	34.77	PASS
Band71	15MHz	256QAM	133197	1RB#38	18.46	15.68	34.77	PASS
Band71	15MHz	256QAM	133197	1RB#74	18.34	15.56	34.77	PASS
Band71	15MHz	256QAM	133197	75RB#0	18.4	15.62	34.77	PASS
Band71	15MHz	256QAM	133297	1RB#0	18.27	15.49	34.77	PASS
Band71	15MHz	256QAM	133297	1RB#38	18.53	15.75	34.77	PASS
Band71	15MHz	256QAM	133297	1RB#74	18.19	15.41	34.77	PASS
Band71	15MHz	256QAM	133297	75RB#0	18.25	15.47	34.77	PASS
Band71	15MHz	256QAM	133397	1RB#0	18.31	15.53	34.77	PASS
Band71	15MHz	256QAM	133397	1RB#38	18.28	15.5	34.77	PASS
Band71	15MHz	256QAM	133397	1RB#74	18.28	15.5	34.77	PASS
Band71	15MHz	256QAM	133397	75RB#0	18.17	15.39	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.22	20.44	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.27	20.49	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.14	20.36	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.37	19.59	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.42	20.64	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.32	20.54	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.13	20.35	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.16	19.38	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.25	20.47	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.15	20.37	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.12	20.34	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.29	19.51	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.23	19.45	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.53	19.75	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.3	19.52	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.37	18.59	34.77	PASS



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Band71	20MHz	16QAM	133322	1RB#0	22.45	19.67	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.46	19.68	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.18	19.4	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.16	18.38	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.29	19.51	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.19	19.41	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.05	19.27	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.23	18.45	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#0	21.36	18.58	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#49	21.51	18.73	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#99	21.41	18.63	34.77	PASS
Band71	20MHz	64QAM	133222	100RB#0	20.37	17.59	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#0	21.37	18.59	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#49	21.39	18.61	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#99	21.18	18.4	34.77	PASS
Band71	20MHz	64QAM	133322	100RB#0	20.16	17.38	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#0	21.37	18.59	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#49	21.42	18.64	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#99	21.26	18.48	34.77	PASS
Band71	20MHz	64QAM	133372	100RB#0	20.28	17.5	34.77	PASS
Band71	20MHz	256QAM	133222	1RB#0	18.3	15.52	34.77	PASS
Band71	20MHz	256QAM	133222	1RB#49	18.33	15.55	34.77	PASS
Band71	20MHz	256QAM	133222	1RB#99	18.27	15.49	34.77	PASS
Band71	20MHz	256QAM	133222	100RB#0	18.35	15.57	34.77	PASS
Band71	20MHz	256QAM	133322	1RB#0	18.29	15.51	34.77	PASS
Band71	20MHz	256QAM	133322	1RB#49	18.42	15.64	34.77	PASS
Band71	20MHz	256QAM	133322	1RB#99	18.26	15.48	34.77	PASS
Band71	20MHz	256QAM	133322	100RB#0	18.23	15.45	34.77	PASS
Band71	20MHz	256QAM	133372	1RB#0	18.16	15.38	34.77	PASS
Band71	20MHz	256QAM	133372	1RB#49	18.3	15.52	34.77	PASS
Band71	20MHz	256QAM	133372	1RB#99	18.19	15.41	34.77	PASS
Band71	20MHz	256QAM	133372	100RB#0	18.31	15.53	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band71_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1337.2	69.06	-48.08	25.61	-48.67	-13.00	35.67	254	213	Horizontal
2	2028.4	64.66	-47.85	26.74	-51.71	-13.00	38.71	156	357	Horizontal
3	2656.3600	44.67	-47.00	28.21	-69.38	-13.00	56.38	123	43	Horizontal
4	3320.4500	43.35	-46.65	29.53	-69.03	-13.00	56.03	256	360	Horizontal
5	3984.5400	44.31	-46.20	30.76	-66.39	-13.00	53.39	145	339	Horizontal
6	4648.6300	42.04	-45.79	31.86	-67.16	-13.00	54.16	188	106	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1337.2	66.65	-48.08	25.61	-51.08	-13.00	38.08	244	254	Vertical
2	2005.6	63.93	-47.89	26.66	-52.56	-13.00	39.56	154	252	Vertical
3	2656.3600	44.27	-47.00	28.21	-69.78	-13.00	56.78	165	190	Vertical
4	3320.4500	44.74	-46.65	29.53	-67.64	-13.00	54.64	188	64	Vertical
5	3984.5400	43.13	-46.20	30.76	-67.57	-13.00	54.57	196	107	Vertical
6	4648.6300	43.65	-45.79	31.86	-65.55	-13.00	52.55	177	2	Vertical



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Test Band = LTE Band71_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1357.2	67.26	-48.06	25.61	-50.44	-13.00	37.44	254	129	Horizontal
2	2035.4	60.27	-47.83	26.76	-56.06	-13.00	43.06	156	234	Horizontal
3	2696.3600	44.07	-47.05	28.28	-69.95	-13.00	56.95	132	336	Horizontal
4	3370.4500	43.76	-46.58	29.47	-68.61	-13.00	55.61	155	170	Horizontal
5	4044.5400	43.17	-46.07	30.87	-67.29	-13.00	54.29	195	129	Horizontal
6	4718.6300	42.46	-45.77	32.07	-66.50	-13.00	53.50	175	358	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1357.2	66.88	-48.06	25.61	-50.82	-13.00	37.82	258	254	Vertical
2	2035.8	62.51	-47.83	26.77	-53.82	-13.00	40.82	145	292	Vertical
3	2696.3600	44.60	-47.05	28.28	-69.42	-13.00	56.42	196	166	Vertical
4	3370.4500	43.26	-46.58	29.47	-69.11	-13.00	56.11	185	209	Vertical
5	4044.5400	43.32	-46.07	30.87	-67.14	-13.00	54.14	175	192	Vertical
6	4718.6300	42.83	-45.77	32.07	-66.13	-13.00	53.13	143	0	Vertical



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Test Band = LTE Band71_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1367	66.30	-48.04	25.62	-51.39	-13.00	38.39	125	168	Horizontal
2	2050.6	59.99	-47.80	26.82	-56.26	-13.00	43.26	154	210	Horizontal
3	2716.3600	44.81	-47.03	28.32	-69.16	-13.00	56.16	189	358	Horizontal
4	3395.4500	43.81	-46.55	29.44	-68.56	-13.00	55.56	165	4	Horizontal
5	4074.5400	43.85	-45.98	30.91	-66.47	-13.00	53.47	175	358	Horizontal
6	4753.6300	42.57	-45.71	32.18	-66.22	-13.00	53.22	142	104	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1367.2	62.57	-48.04	25.62	-55.12	-13.00	42.12	215	274	Vertical
2	2050.8	62.77	-47.80	26.82	-53.48	-13.00	40.48	148	338	Vertical
3	2716.3600	43.73	-47.03	28.32	-70.24	-13.00	57.24	159	340	Vertical
4	3395.4500	43.13	-46.55	29.44	-69.24	-13.00	56.24	193	210	Vertical
5	4074.5400	43.77	-45.98	30.91	-66.55	-13.00	53.55	251	316	Vertical
6	4753.6300	42.19	-45.71	32.18	-66.60	-13.00	53.60	134	0	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---

