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Appendix B.6

LTE Band 12



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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
Band12	1.4MHz	QPSK	23017	1RB#0	22.49	21.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.55	22.01	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.49	21.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.53	20.99	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	21.55	21.01	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.49	21.95	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.49	21.95	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.52	20.98	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	21.35	20.81	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.33	21.79	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.3	21.76	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.34	20.8	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.6	21.06	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.75	21.21	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.67	21.13	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.49	19.95	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.63	21.09	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.61	21.07	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.62	21.08	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.5	19.96	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.49	20.95	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.46	20.92	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.46	20.92	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.35	19.81	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	20.66	20.12	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	20.69	20.15	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	20.66	20.12	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	19.71	19.17	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	20.62	20.08	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	20.68	20.14	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.63	20.09	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.64	19.1	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.47	19.93	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	20.53	19.99	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	20.45	19.91	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.56	19.02	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	17.67	17.13	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	17.78	17.24	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	17.75	17.21	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	17.55	17.01	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	17.66	17.12	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	17.72	17.18	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	17.73	17.19	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	17.58	17.04	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	17.59	17.05	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	17.62	17.08	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	17.52	16.98	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	17.45	16.91	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.52	21.98	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.49	21.95	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.48	21.94	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.53	20.99	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	19.46	18.92	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.47	21.93	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.43	21.89	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.49	20.95	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	21.2	20.66	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.39	21.85	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.31	21.77	34.77	PASS



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Band12	3MHz	QPSK	23165	15RB#0	21.37	20.83	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.63	21.09	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.7	21.16	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.63	21.09	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.48	19.94	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.65	21.11	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.6	21.06	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.56	21.02	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.46	19.92	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.55	21.01	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.5	20.96	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.39	20.85	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.33	19.79	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	20.66	20.12	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	20.66	20.12	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	20.66	20.12	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.74	19.2	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	20.62	20.08	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	20.65	20.11	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	20.6	20.06	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.69	19.15	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	20.59	20.05	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	20.59	20.05	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	20.45	19.91	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	19.54	19	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	17.66	17.12	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	17.75	17.21	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	17.74	17.2	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	17.68	17.14	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	17.74	17.2	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	17.73	17.19	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	17.72	17.18	34.77	PASS



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Band12	3MHz	256QAM	23095	15RB#0	17.6	17.06	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#0	17.71	17.17	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#8	17.59	17.05	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	17.51	16.97	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	17.5	16.96	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.56	22.02	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.6	22.06	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.55	22.01	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.56	21.02	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	21.88	21.34	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.57	22.03	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.47	21.93	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.46	20.92	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	21.39	20.85	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.43	21.89	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.36	21.82	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.42	20.88	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.62	21.08	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.71	21.17	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.67	21.13	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.53	19.99	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.66	21.12	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.63	21.09	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.52	20.98	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.42	19.88	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.57	21.03	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.58	21.04	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.44	20.9	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.45	19.91	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	20.7	20.16	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	20.75	20.21	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.63	20.09	34.77	PASS



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Band12	5MHz	64QAM	23035	25RB#0	19.7	19.16	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.7	20.16	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	20.69	20.15	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	20.62	20.08	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.6	19.06	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.59	20.05	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	20.56	20.02	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.48	19.94	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.61	19.07	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	17.76	17.22	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	17.62	17.08	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	17.81	17.27	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	17.63	17.09	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	17.71	17.17	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	17.77	17.23	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	17.69	17.15	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	17.56	17.02	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	17.65	17.11	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	17.52	16.98	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	17.33	16.79	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	17.52	16.98	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.53	21.99	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.59	22.05	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.42	21.88	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.62	21.08	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.51	21.97	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.55	22.01	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.37	21.83	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.4	20.86	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.55	22.01	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.46	21.92	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.26	21.72	34.77	PASS



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Band12	10MHz	QPSK	23130	50RB#0	21.53	20.99	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.64	21.1	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.69	21.15	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.57	21.03	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.57	20.03	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.63	21.09	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.66	21.12	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.5	20.96	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.34	19.8	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.63	21.09	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.54	21	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.38	20.84	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.49	19.95	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	20.68	20.14	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	20.72	20.18	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	20.52	19.98	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.76	19.22	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	20.65	20.11	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	20.7	20.16	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	20.55	20.01	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.58	19.04	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	20.66	20.12	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	20.61	20.07	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.44	19.9	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.69	19.15	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	17.52	16.98	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	17.63	17.09	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	17.52	16.98	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	17.33	16.79	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	17.56	17.02	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	17.85	17.31	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	17.36	16.82	34.77	PASS



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Band12	10MHz	256QAM	23095	50RB#0	17.23	16.69	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	17.58	17.04	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	17.56	17.02	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	17.63	17.09	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	17.33	16.79	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band12_ 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	1399.1800	43.33	-48.00	25.62	-74.31	-13.00	61.31	214	356	Horizontal
2	2098.7700	43.02	-47.71	26.99	-72.97	-13.00	59.97	136	144	Horizontal
3	2798.3600	42.37	-46.92	28.48	-71.33	-13.00	58.33	259	212	Horizontal
4	3497.9500	42.05	-46.54	29.52	-70.23	-13.00	57.23	198	280	Horizontal
5	4197.5400	40.17	-45.96	31.10	-69.95	-13.00	56.95	175	293	Horizontal
6	4897.1300	40.85	-45.58	32.59	-67.40	-13.00	54.40	142	225	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	1399.1800	43.05	-48.00	25.62	-74.59	-13.00	61.59	248	202	Vertical
2	2098.7700	42.22	-47.71	26.99	-73.77	-13.00	60.77	136	360	Vertical
3	2798.3600	42.17	-46.92	28.48	-71.53	-13.00	58.53	256	242	Vertical
4	3497.9500	42.04	-46.54	29.52	-70.24	-13.00	57.24	192	147	Vertical
5	4197.5400	40.38	-45.96	31.10	-69.74	-13.00	56.74	175	80	Vertical
6	4897.1300	41.12	-45.58	32.59	-67.13	-13.00	54.13	144	308	Vertical



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Test Band = LTE Band12_ 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	1406.1800	43.67	-48.02	25.61	-74.00	-13.00	61.00	122	356	Horizontal
2	2109.2700	42.23	-47.71	27.02	-73.71	-13.00	60.71	145	254	Horizontal
3	2812.3600	42.58	-46.88	28.53	-71.02	-13.00	58.02	199	126	Horizontal
4	3515.4500	41.40	-46.51	29.53	-70.83	-13.00	57.83	111	133	Horizontal
5	4218.5400	40.19	-45.93	31.14	-69.86	-13.00	56.86	189	25	Horizontal
6	4921.6300	40.57	-45.63	32.66	-67.66	-13.00	54.66	178	163	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	1406.1800	43.46	-48.02	25.61	-74.21	-13.00	61.21	248	136	Vertical
2	2109.2700	42.16	-47.71	27.02	-73.78	-13.00	60.78	136	211	Vertical
3	2812.3600	42.88	-46.88	28.53	-70.72	-13.00	57.72	256	320	Vertical
4	3515.4500	41.68	-46.51	29.53	-70.55	-13.00	57.55	192	94	Vertical
5	4218.5400	40.52	-45.93	31.14	-69.53	-13.00	56.53	144	228	Vertical
6	4921.6300	41.10	-45.63	32.66	-67.13	-13.00	54.13	172	133	Vertical



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Test Band = LTE Band12_ 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	1413.1800	43.59	-48.04	25.60	-74.11	-13.00	61.11	298	240	Horizontal
2	2119.7700	42.35	-47.70	27.06	-73.55	-13.00	60.55	174	66	Horizontal
3	2826.3600	42.27	-46.83	28.60	-71.22	-13.00	58.22	156	348	Horizontal
4	3532.9500	41.38	-46.47	29.55	-70.80	-13.00	57.80	136	322	Horizontal
5	4239.5400	40.41	-45.89	31.18	-69.56	-13.00	56.56	266	0	Horizontal
6	4946.1300	41.00	-45.69	32.73	-67.22	-13.00	54.22	145	267	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	1413.1800	43.35	-48.04	25.60	-74.35	-13.00	61.35	284	255	Vertical
2	2119.7700	42.31	-47.70	27.06	-73.59	-13.00	60.59	174	173	Vertical
3	2826.3600	42.36	-46.83	28.60	-71.13	-13.00	58.13	196	269	Vertical
4	3532.9500	41.58	-46.47	29.55	-70.60	-13.00	57.60	135	120	Vertical
5	4239.5400	40.88	-45.89	31.18	-69.09	-13.00	56.09	145	133	Vertical
6	4946.1300	41.03	-45.69	32.73	-67.19	-13.00	54.19	126	4	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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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