



Appendix B.15

NR CA_n5B



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Effective (Isotropic) Radiated Power Output Data for SA for

ZEWM2306000857RG02

Test Result

ANT7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power	ERP	LIMIT	Verdict
N5B	15	5+10	DFT-QPSK	L	Inner_1RB_Left	21.61	22.86	38.45	PASS
N5B	15	5+10	DFT-QPSK	L	Inner_1RB_Right	21.68	22.93	38.45	PASS
N5B	15	5+10	DFT-QPSK	L	Outer_Full	17.38	18.63	38.45	PASS
N5B	15	5+10	DFT-256QAM	L	Inner_1RB_Left	16.82	18.07	38.45	PASS
N5B	15	5+10	DFT-256QAM	L	Inner_1RB_Right	16.97	18.22	38.45	PASS
N5B	15	5+10	DFT-256QAM	L	Outer_Full	16.91	18.16	38.45	PASS
N5B	15	5+10	DFT-QPSK	M	Inner_1RB_Left	21.86	23.11	38.45	PASS
N5B	15	5+10	DFT-QPSK	M	Inner_1RB_Right	21.78	23.03	38.45	PASS
N5B	15	5+10	DFT-QPSK	M	Outer_Full	17.49	18.74	38.45	PASS
N5B	15	5+10	DFT-256QAM	M	Inner_1RB_Left	16.8	18.05	38.45	PASS
N5B	15	5+10	DFT-256QAM	M	Inner_1RB_Right	16.72	17.97	38.45	PASS
N5B	15	5+10	DFT-256QAM	M	Outer_Full	16.55	17.8	38.45	PASS
N5B	15	5+10	DFT-QPSK	H	Inner_1RB_Left	21.47	22.72	38.45	PASS
N5B	15	5+10	DFT-QPSK	H	Inner_1RB_Right	21.45	22.7	38.45	PASS
N5B	15	5+10	DFT-QPSK	H	Outer_Full	17.12	18.37	38.45	PASS
N5B	15	5+10	DFT-256QAM	H	Inner_1RB_Left	16.91	18.16	38.45	PASS
N5B	15	5+10	DFT-256QAM	H	Inner_1RB_Right	16.83	18.08	38.45	PASS
N5B	15	5+10	DFT-256QAM	H	Outer_Full	16.57	17.82	38.45	PASS
N5B	15	5+15	DFT-QPSK	L	Inner_1RB_Left	22.83	24.08	38.45	PASS
N5B	15	5+15	DFT-QPSK	L	Inner_1RB_Right	22.53	23.78	38.45	PASS
N5B	15	5+15	DFT-QPSK	L	Outer_Full	20.91	22.16	38.45	PASS
N5B	15	5+15	DFT-256QAM	L	Inner_1RB_Left	18.27	19.52	38.45	PASS
N5B	15	5+15	DFT-256QAM	L	Inner_1RB_Right	18.34	19.59	38.45	PASS
N5B	15	5+15	DFT-256QAM	L	Outer_Full	18.42	19.67	38.45	PASS
N5B	15	5+15	DFT-QPSK	M	Inner_1RB_Left	22.45	23.7	38.45	PASS
N5B	15	5+15	DFT-QPSK	M	Inner_1RB_Right	22.74	23.99	38.45	PASS
N5B	15	5+15	DFT-QPSK	M	Outer_Full	20.9	22.15	38.45	PASS



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N5B	15	5+15	DFT-256QAM	M	Inner_1RB_Left	18.56	19.81	38.45	PASS
N5B	15	5+15	DFT-256QAM	M	Inner_1RB_Right	18.49	19.74	38.45	PASS
N5B	15	5+15	DFT-256QAM	M	Outer_Full	18.41	19.66	38.45	PASS
N5B	15	5+15	DFT-QPSK	H	Inner_1RB_Left	22.73	23.98	38.45	PASS
N5B	15	5+15	DFT-QPSK	H	Inner_1RB_Right	22.62	23.87	38.45	PASS
N5B	15	5+15	DFT-QPSK	H	Outer_Full	20.8	22.05	38.45	PASS
N5B	15	5+15	DFT-256QAM	H	Inner_1RB_Left	18.48	19.73	38.45	PASS
N5B	15	5+15	DFT-256QAM	H	Inner_1RB_Right	18.42	19.67	38.45	PASS
N5B	15	5+15	DFT-256QAM	H	Outer_Full	18.23	19.48	38.45	PASS
N5B	15	5+20	DFT-QPSK	165300+167760	Inner_1RB_Left	22.84	24.09	38.45	PASS
N5B	15	5+20	DFT-QPSK	165300+167760	Inner_1RB_Right	22.84	24.09	38.45	PASS
N5B	15	5+20	DFT-QPSK	165300+167760	Outer_Full	20.88	22.13	38.45	PASS
N5B	15	5+20	DFT-256QAM	165300+167760	Inner_1RB_Left	18.46	19.71	38.45	PASS
N5B	15	5+20	DFT-256QAM	165300+167760	Inner_1RB_Right	18.52	19.77	38.45	PASS
N5B	15	5+20	DFT-256QAM	165300+167760	Outer_Full	18.38	19.63	38.45	PASS
N5B	15	10+5	DFT-QPSK	L	Inner_1RB_Left	21.58	22.83	38.45	PASS
N5B	15	10+5	DFT-QPSK	L	Inner_1RB_Right	21.67	22.92	38.45	PASS
N5B	15	10+5	DFT-QPSK	L	Outer_Full	17.34	18.59	38.45	PASS
N5B	15	10+5	DFT-256QAM	L	Inner_1RB_Left	16.99	18.24	38.45	PASS
N5B	15	10+5	DFT-256QAM	L	Inner_1RB_Right	16.88	18.13	38.45	PASS
N5B	15	10+5	DFT-256QAM	L	Outer_Full	16.81	18.06	38.45	PASS
N5B	15	10+5	DFT-QPSK	M	Inner_1RB_Left	21.61	22.86	38.45	PASS
N5B	15	10+5	DFT-QPSK	M	Inner_1RB_Right	21.47	22.72	38.45	PASS
N5B	15	10+5	DFT-QPSK	M	Outer_Full	17.19	18.44	38.45	PASS
N5B	15	10+5	DFT-256QAM	M	Inner_1RB_Left	16.91	18.16	38.45	PASS
N5B	15	10+5	DFT-256QAM	M	Inner_1RB_Right	16.82	18.07	38.45	PASS
N5B	15	10+5	DFT-256QAM	M	Outer_Full	16.68	17.93	38.45	PASS
N5B	15	10+5	DFT-QPSK	H	Inner_1RB_Left	21.46	22.71	38.45	PASS
N5B	15	10+5	DFT-QPSK	H	Inner_1RB_Right	21.47	22.72	38.45	PASS
N5B	15	10+5	DFT-QPSK	H	Outer_Full	17.15	18.4	38.45	PASS
N5B	15	10+5	DFT-256QAM	H	Inner_1RB_Left	16.84	18.09	38.45	PASS
N5B	15	10+5	DFT-256QAM	H	Inner_1RB_Right	16.79	18.04	38.45	PASS
N5B	15	10+5	DFT-256QAM	H	Outer_Full	16.6	17.85	38.45	PASS
N5B	15	10+15	DFT-QPSK	165800+168300	Inner_1RB_Left	22.53	23.78	38.45	PASS



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N5B	15	10+15	DFT-QPSK	165800+168300	Inner_1RB_Right	22.43	23.68	38.45	PASS
N5B	15	10+15	DFT-QPSK	165800+168300	Outer_Full	20.11	21.36	38.45	PASS
N5B	15	10+15	DFT-256QAM	165800+168300	Inner_1RB_Left	18.46	19.71	38.45	PASS
N5B	15	10+15	DFT-256QAM	165800+168300	Inner_1RB_Right	18.48	19.73	38.45	PASS
N5B	15	10+15	DFT-256QAM	165800+168300	Outer_Full	18.23	19.48	38.45	PASS
N5B	15	15+5	DFT-QPSK	L	Inner_1RB_Left	23.08	24.33	38.45	PASS
N5B	15	15+5	DFT-QPSK	L	Inner_1RB_Right	23.01	24.26	38.45	PASS
N5B	15	15+5	DFT-QPSK	L	Outer_Full	21.13	22.38	38.45	PASS
N5B	15	15+5	DFT-256QAM	L	Inner_1RB_Left	18.92	20.17	38.45	PASS
N5B	15	15+5	DFT-256QAM	L	Inner_1RB_Right	18.88	20.13	38.45	PASS
N5B	15	15+5	DFT-256QAM	L	Outer_Full	18.59	19.84	38.45	PASS
N5B	15	15+5	DFT-QPSK	M	Inner_1RB_Left	22.66	23.91	38.45	PASS
N5B	15	15+5	DFT-QPSK	M	Inner_1RB_Right	22.75	24	38.45	PASS
N5B	15	15+5	DFT-QPSK	M	Outer_Full	20.91	22.16	38.45	PASS
N5B	15	15+5	DFT-256QAM	M	Inner_1RB_Left	18.82	20.07	38.45	PASS
N5B	15	15+5	DFT-256QAM	M	Inner_1RB_Right	18.76	20.01	38.45	PASS
N5B	15	15+5	DFT-256QAM	M	Outer_Full	18.51	19.76	38.45	PASS
N5B	15	15+5	DFT-QPSK	H	Inner_1RB_Left	22.7	23.95	38.45	PASS
N5B	15	15+5	DFT-QPSK	H	Inner_1RB_Right	22.73	23.98	38.45	PASS
N5B	15	15+5	DFT-QPSK	H	Outer_Full	21.02	22.27	38.45	PASS
N5B	15	15+5	DFT-256QAM	H	Inner_1RB_Left	18.86	20.11	38.45	PASS
N5B	15	15+5	DFT-256QAM	H	Inner_1RB_Right	18.47	19.72	38.45	PASS
N5B	15	15+5	DFT-256QAM	H	Outer_Full	18.41	19.66	38.45	PASS
N5B	15	15+10	DFT-QPSK	166300+168800	Inner_1RB_Left	22.55	23.8	38.45	PASS
N5B	15	15+10	DFT-QPSK	166300+168800	Inner_1RB_Right	22.54	23.79	38.45	PASS
N5B	15	15+10	DFT-QPSK	166300+168800	Outer_Full	20.8	22.05	38.45	PASS
N5B	15	15+10	DFT-256QAM	166300+168800	Inner_1RB_Left	18.56	19.81	38.45	PASS
N5B	15	15+10	DFT-256QAM	166300+168800	Inner_1RB_Right	18.49	19.74	38.45	PASS
N5B	15	15+10	DFT-256QAM	166300+168800	Outer_Full	18.41	19.66	38.45	PASS
N5B	15	20+5	DFT-QPSK	166800+169300	Inner_1RB_Left	23.19	24.44	38.45	PASS
N5B	15	20+5	DFT-QPSK	166800+169300	Inner_1RB_Right	23.06	24.31	38.45	PASS
N5B	15	20+5	DFT-QPSK	166800+169300	Outer_Full	21.02	22.27	38.45	PASS
N5B	15	20+5	DFT-256QAM	166800+169300	Inner_1RB_Left	18.83	20.08	38.45	PASS
N5B	15	20+5	DFT-256QAM	166800+169300	Inner_1RB_Right	18.78	20.03	38.45	PASS



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N5B	15	20+5	DFT-256QAM	166800+169300	Outer_Full	18.5	19.75	38.45	PASS
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Effective (Isotropic) Radiated Power Output Data for SA for

ZEWM2306000856RG02

Test Result

ANT7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power	ERP	LIMIT	Verdict
N5B	15	15+5	DFT-QPSK	L	Inner_1RB_Left	23.19	24.44	38.45	PASS
N5B	15	15+5	DFT-QPSK	L	Inner_1RB_Right	23.11	24.36	38.45	PASS
N5B	15	15+5	DFT-QPSK	L	Outer_Full	21.2	22.45	38.45	PASS
N5B	15	15+5	DFT-256QAM	L	Inner_1RB_Left	18.98	20.23	38.45	PASS
N5B	15	15+5	DFT-256QAM	L	Inner_1RB_Right	18.92	20.17	38.45	PASS
N5B	15	15+5	DFT-256QAM	L	Outer_Full	18.55	19.8	38.45	PASS
N5B	15	15+5	DFT-QPSK	M	Inner_1RB_Left	22.67	23.92	38.45	PASS
N5B	15	15+5	DFT-QPSK	M	Inner_1RB_Right	22.83	24.08	38.45	PASS
N5B	15	15+5	DFT-QPSK	M	Outer_Full	21.01	22.26	38.45	PASS
N5B	15	15+5	DFT-256QAM	M	Inner_1RB_Left	18.85	20.1	38.45	PASS
N5B	15	15+5	DFT-256QAM	M	Inner_1RB_Right	18.76	20.01	38.45	PASS
N5B	15	15+5	DFT-256QAM	M	Outer_Full	18.57	19.82	38.45	PASS
N5B	15	15+5	DFT-QPSK	H	Inner_1RB_Left	22.73	23.98	38.45	PASS
N5B	15	15+5	DFT-QPSK	H	Inner_1RB_Right	22.72	23.97	38.45	PASS
N5B	15	15+5	DFT-QPSK	H	Outer_Full	21.08	22.33	38.45	PASS
N5B	15	15+5	DFT-256QAM	H	Inner_1RB_Left	18.85	20.1	38.45	PASS
N5B	15	15+5	DFT-256QAM	H	Inner_1RB_Right	18.42	19.67	38.45	PASS
N5B	15	15+5	DFT-256QAM	H	Outer_Full	18.43	19.68	38.45	PASS



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
5	15	5+10	DFT-QPSK	M	Outer_Full	13.58	13.99	PASS
5	15	5+10	DFT-16QAM	M	Outer_Full	13.61	13.99	PASS
5	15	5+15	DFT-QPSK	M	Outer_Full	18.37	18.82	PASS
5	15	5+15	DFT-16QAM	M	Outer_Full	18.40	18.84	PASS
5	15	5+20	DFT-QPSK	M	Outer_Full	22.81	23.35	PASS
5	15	5+20	DFT-16QAM	M	Outer_Full	22.77	23.27	PASS

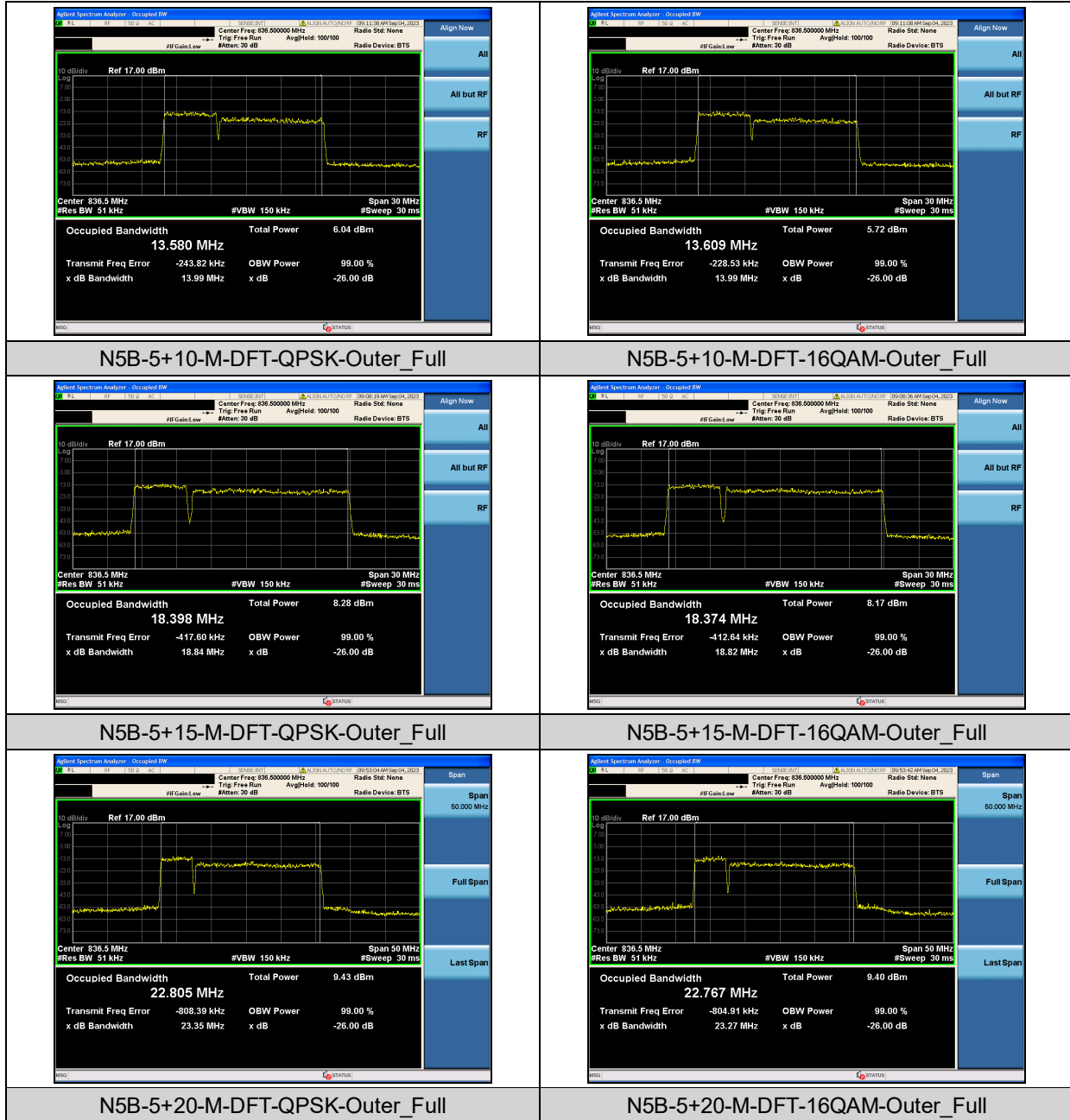


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Occupied Bandwidth Test Graphs



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Field Strength of Spurious Radiation

Test Band = NR SA Band 5B_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	45.76	-49.82	25.30	-74.02	-13.00	61.02	Horizontal
2	2475.27	45.00	-49.04	27.27	-72.03	-13.00	59.03	Horizontal
3	3300.36	44.43	-48.63	28.62	-70.84	-13.00	57.84	Horizontal
4	4125.45	43.95	-48.29	29.63	-69.97	-13.00	56.97	Horizontal
5	4950.54	43.60	-48.06	31.38	-68.34	-13.00	55.34	Horizontal
6	5775.63	43.21	-47.67	32.76	-66.96	-13.00	53.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.18	45.35	-49.82	25.30	-74.43	-13.00	61.43	Vertical
2	2475.27	44.38	-49.04	27.27	-72.65	-13.00	59.65	Vertical
3	3300.36	45.57	-48.63	28.62	-69.70	-13.00	56.70	Vertical
4	4125.45	43.87	-48.29	29.63	-70.05	-13.00	57.05	Vertical
5	4950.54	43.59	-48.06	31.38	-68.35	-13.00	55.35	Vertical
6	5775.63	43.49	-47.67	32.76	-66.68	-13.00	53.68	Vertical



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Test Band = NR SA Band 5B_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	45.90	-49.81	25.32	-73.85	-13.00	60.85	Horizontal
2	2482.77	44.11	-49.00	27.28	-72.87	-13.00	59.87	Horizontal
3	3310.36	44.99	-48.64	28.62	-70.28	-13.00	57.28	Horizontal
4	4137.95	43.65	-48.30	29.65	-70.26	-13.00	57.26	Horizontal
5	4965.54	43.30	-48.03	31.42	-68.57	-13.00	55.57	Horizontal
6	5793.13	44.39	-47.71	32.76	-65.82	-13.00	52.82	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.18	45.76	-49.81	25.32	-73.99	-13.00	60.99	Vertical
2	2482.77	44.25	-49.00	27.28	-72.73	-13.00	59.73	Vertical
3	3310.36	45.49	-48.64	28.62	-69.78	-13.00	56.78	Vertical
4	4137.95	43.70	-48.30	29.65	-70.21	-13.00	57.21	Vertical
5	4965.54	43.76	-48.03	31.42	-68.11	-13.00	55.11	Vertical
6	5793.13	42.89	-47.71	32.76	-67.32	-13.00	54.32	Vertical



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Test Band = NR SA Band 5B_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	45.76	-49.80	25.34	-73.96	-13.00	60.96	Horizontal
2	2490.27	44.69	-48.95	27.29	-72.24	-13.00	59.24	Horizontal
3	3320.36	44.51	-48.64	28.63	-70.76	-13.00	57.76	Horizontal
4	4150.45	43.12	-48.31	29.67	-70.78	-13.00	57.78	Horizontal
5	4980.54	44.04	-48.00	31.45	-67.77	-13.00	54.77	Horizontal
6	5810.63	43.17	-47.65	32.76	-66.97	-13.00	53.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1660.18	45.66	-49.80	25.34	-74.06	-13.00	61.06	Vertical
2	2490.27	45.03	-48.95	27.29	-71.90	-13.00	58.90	Vertical
3	3320.36	45.27	-48.64	28.63	-70.00	-13.00	57.00	Vertical
4	4150.45	44.01	-48.31	29.67	-69.89	-13.00	56.89	Vertical
5	4980.54	43.99	-48.00	31.45	-67.82	-13.00	54.82	Vertical
6	5810.63	43.21	-47.65	32.76	-66.93	-13.00	53.93	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---



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