



Report No.: SEWM2210000221RG01

Rev.: 01

Page: 1 of 10

Appendix B.14

LTE Band 41



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	25.70	28.21	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	25.65	28.16	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	25.64	28.15	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	24.56	27.07	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	25.46	27.97	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	25.88	28.39	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	25.91	28.42	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	24.90	27.41	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	25.34	27.85	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	26.04	28.55	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	25.91	28.42	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	24.91	27.42	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	24.59	27.10	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	24.47	26.98	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	24.38	26.89	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	23.46	25.97	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	24.62	27.13	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	24.71	27.22	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	24.78	27.29	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	23.82	26.33	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	24.91	27.42	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	24.94	27.45	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	24.81	27.32	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	23.81	26.32	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	23.64	26.15	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	23.54	26.05	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	23.51	26.02	33	PASS
Band41	5MHz	64QAM	39675	25RB#0	22.31	24.82	33	PASS



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 3 of 10

Band41	5MHz	64QAM	40620	1RB#0	23.66	26.17	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	23.81	26.32	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	23.79	26.30	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	22.70	25.21	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	23.82	26.33	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	23.87	26.38	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	23.82	26.33	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	22.72	25.23	33	PASS
Band41	5MHz	256QAM	39675	1RB#0	20.05	22.56	33	PASS
Band41	5MHz	256QAM	39675	1RB#12	20.15	22.66	33	PASS
Band41	5MHz	256QAM	39675	1RB#24	20.12	22.63	33	PASS
Band41	5MHz	256QAM	39675	25RB#0	20.22	22.73	33	PASS
Band41	5MHz	256QAM	40620	1RB#0	20.35	22.86	33	PASS
Band41	5MHz	256QAM	40620	1RB#12	20.56	23.07	33	PASS
Band41	5MHz	256QAM	40620	1RB#24	20.57	23.08	33	PASS
Band41	5MHz	256QAM	40620	25RB#0	20.59	23.10	33	PASS
Band41	5MHz	256QAM	41565	1RB#0	20.35	22.86	33	PASS
Band41	5MHz	256QAM	41565	1RB#12	20.46	22.97	33	PASS
Band41	5MHz	256QAM	41565	1RB#24	20.48	22.99	33	PASS
Band41	5MHz	256QAM	41565	25RB#0	20.56	23.07	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	25.84	28.35	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.88	28.39	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	25.78	28.29	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	24.79	27.30	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	25.52	28.03	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	25.97	28.48	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	25.85	28.36	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	24.92	27.43	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	25.43	27.94	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	25.95	28.46	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	25.68	28.19	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	24.75	27.26	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	24.87	27.38	33	PASS



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 4 of 10

Band41	10MHz	16QAM	39700	1RB#24	24.78	27.29	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	24.70	27.21	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	23.69	26.20	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	24.90	27.41	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	24.85	27.36	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	24.66	27.17	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	23.83	26.34	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	24.57	27.08	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	24.75	27.26	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	24.54	27.05	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	23.61	26.12	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	24.76	27.27	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	23.75	26.26	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	23.79	26.30	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	22.64	25.15	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	23.90	26.41	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	23.89	26.40	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	23.81	26.32	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	22.76	25.27	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	23.61	26.12	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	23.94	26.45	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	23.48	25.99	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	22.55	25.06	33	PASS
Band41	10MHz	256QAM	39700	1RB#0	20.33	22.84	33	PASS
Band41	10MHz	256QAM	39700	1RB#24	20.32	22.83	33	PASS
Band41	10MHz	256QAM	39700	1RB#49	20.28	22.79	33	PASS
Band41	10MHz	256QAM	39700	50RB#0	20.49	23.00	33	PASS
Band41	10MHz	256QAM	40620	1RB#0	20.44	22.95	33	PASS
Band41	10MHz	256QAM	40620	1RB#24	20.58	23.09	33	PASS
Band41	10MHz	256QAM	40620	1RB#49	20.47	22.98	33	PASS
Band41	10MHz	256QAM	40620	50RB#0	20.59	23.10	33	PASS
Band41	10MHz	256QAM	41540	1RB#0	19.97	22.48	33	PASS
Band41	10MHz	256QAM	41540	1RB#24	20.60	23.11	33	PASS



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 5 of 10

Band41	10MHz	256QAM	41540	1RB#49	20.23	22.74	33	PASS
Band41	10MHz	256QAM	41540	50RB#0	20.33	22.84	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	25.69	28.20	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	25.72	28.23	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	25.77	28.28	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	24.74	27.25	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	25.34	27.85	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	25.79	28.30	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	25.67	28.18	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	24.76	27.27	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	25.52	28.03	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	25.91	28.42	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	25.79	28.30	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	24.73	27.24	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	24.48	26.99	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	24.69	27.20	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	24.48	26.99	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	23.58	26.09	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	24.71	27.22	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	24.69	27.20	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	24.59	27.10	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	23.67	26.18	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	24.42	26.93	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	24.69	27.20	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	24.72	27.23	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	23.63	26.14	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	23.47	25.98	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	23.57	26.08	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	23.52	26.03	33	PASS
Band41	15MHz	64QAM	39725	75RB#0	22.51	25.02	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	23.62	26.13	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	23.66	26.17	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	23.63	26.14	33	PASS



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 6 of 10

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Band41	15MHz	64QAM	41515	1RB#0	23.30	25.81	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	23.83	26.34	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	23.72	26.23	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	22.52	25.03	33	PASS
Band41	15MHz	256QAM	39725	1RB#0	20.23	22.74	33	PASS
Band41	15MHz	256QAM	39725	1RB#38	20.15	22.66	33	PASS
Band41	15MHz	256QAM	39725	1RB#74	20.24	22.75	33	PASS
Band41	15MHz	256QAM	39725	75RB#0	20.30	22.81	33	PASS
Band41	15MHz	256QAM	40620	1RB#0	20.13	22.64	33	PASS
Band41	15MHz	256QAM	40620	1RB#38	20.24	22.75	33	PASS
Band41	15MHz	256QAM	40620	1RB#74	20.24	22.75	33	PASS
Band41	15MHz	256QAM	40620	75RB#0	20.42	22.93	33	PASS
Band41	15MHz	256QAM	41515	1RB#0	19.98	22.49	33	PASS
Band41	15MHz	256QAM	41515	1RB#38	20.39	22.90	33	PASS
Band41	15MHz	256QAM	41515	1RB#74	20.40	22.91	33	PASS
Band41	15MHz	256QAM	41515	75RB#0	20.39	22.90	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	25.50	28.01	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	25.67	28.18	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	25.69	28.20	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	24.68	27.19	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	25.42	27.93	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	25.70	28.21	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	25.71	28.22	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	24.80	27.31	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	25.31	27.82	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	25.83	28.34	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	25.79	28.30	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	24.55	27.06	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	24.49	27.00	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	24.51	27.02	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	24.57	27.08	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	23.57	26.08	33	PASS



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 7 of 10

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Band41	20MHz	16QAM	40620	1RB#49	24.70	27.21	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.45	26.96	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	23.72	26.23	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	24.12	26.63	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	24.84	27.35	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	24.64	27.15	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	23.46	25.97	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	23.45	25.96	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	23.59	26.10	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	23.60	26.11	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	22.46	24.97	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	23.66	26.17	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	23.52	26.03	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	23.59	26.10	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	22.62	25.13	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	23.11	25.62	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	23.63	26.14	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	23.50	26.01	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	22.37	24.88	33	PASS
Band41	20MHz	256QAM	39750	1RB#0	20.17	22.68	33	PASS
Band41	20MHz	256QAM	39750	1RB#49	20.24	22.75	33	PASS
Band41	20MHz	256QAM	39750	1RB#99	20.27	22.78	33	PASS
Band41	20MHz	256QAM	39750	100RB#0	20.26	22.77	33	PASS
Band41	20MHz	256QAM	40620	1RB#0	20.33	22.84	33	PASS
Band41	20MHz	256QAM	40620	1RB#49	18.74	21.25	33	PASS
Band41	20MHz	256QAM	40620	1RB#99	20.34	22.85	33	PASS
Band41	20MHz	256QAM	40620	100RB#0	20.43	22.94	33	PASS
Band41	20MHz	256QAM	41490	1RB#0	19.60	22.11	33	PASS
Band41	20MHz	256QAM	41490	1RB#49	20.28	22.79	33	PASS
Band41	20MHz	256QAM	41490	1RB#99	20.18	22.69	33	PASS
Band41	20MHz	256QAM	41490	100RB#0	20.25	22.76	33	PASS



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 8 of 10

Field Strength of Spurious Radiation

Test Band = LTE Band41_ 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	4994.1800	40.80	-45.63	32.86	-67.23	-25.00	42.23	214	255	Horizontal
2	7491.2700	39.53	-43.16	36.44	-62.45	-25.00	37.45	156	208	Horizontal
3	9988.3600	36.24	-39.25	38.47	-59.80	-25.00	34.80	135	360	Horizontal
4	12485.4500	32.93	-37.04	39.16	-60.21	-25.00	35.21	129	359	Horizontal
5	14982.5400	31.71	-34.64	39.26	-58.93	-25.00	33.93	145	269	Horizontal
6	17479.6300	33.15	-35.10	39.13	-58.08	-25.00	33.08	129	105	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	4992	45.73	-45.63	32.86	-62.30	-25.00	37.30	258	268	Vertical
2	7491.2700	39.38	-43.16	36.44	-62.60	-25.00	37.60	145	252	Vertical
3	9988.3600	36.52	-39.25	38.47	-59.52	-25.00	34.52	169	238	Vertical
4	12485.4500	33.60	-37.04	39.16	-59.54	-25.00	34.54	152	29	Vertical
5	14982.5400	32.50	-34.64	39.26	-58.14	-25.00	33.14	148	360	Vertical
6	17479.6300	32.64	-35.10	39.13	-58.59	-25.00	33.59	195	87	Vertical



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 9 of 10

Test Band = LTE Band41_ 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	3960	46.73	-46.14	30.71	-63.96	-25.00	38.96	145	4	Horizontal
2	5168.1800	40.97	-45.31	32.97	-66.63	-25.00	41.63	166	255	Horizontal
3	7752.2700	40.54	-42.69	36.69	-60.72	-25.00	35.72	152	195	Horizontal
4	10336.3600	35.21	-39.06	38.84	-60.27	-25.00	35.27	135	134	Horizontal
5	12920.4500	33.14	-37.16	39.75	-59.53	-25.00	34.53	142	164	Horizontal
6	15504.5400	32.65	-35.35	38.57	-59.39	-25.00	34.39	188	209	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	4118.25	43.85	-45.76	30.98	-66.19	-25.00	41.19	125	255	Vertical
2	5168.1800	43.15	-45.31	32.97	-64.45	-25.00	39.45	155	269	Vertical
3	7752.2700	40.14	-42.69	36.69	-61.12	-25.00	36.12	145	314	Vertical
4	10336.3600	35.20	-39.06	38.84	-60.28	-25.00	35.28	156	209	Vertical
5	12920.4500	33.10	-37.16	39.75	-59.57	-25.00	34.57	132	43	Vertical
6	15504.5400	31.58	-35.35	38.57	-60.46	-25.00	35.46	188	329	Vertical



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Report No.: SEWM2210000221RG01

Rev.: 01

Page: 10 of 10

Test Band = LTE Band41_ 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	3955.5	47.00	-46.15	30.70	-63.71	-25.00	38.71	214	358	Horizontal
2	5342.1800	45.66	-45.18	32.85	-61.92	-25.00	36.92	156	194	Horizontal
3	8013.2700	38.89	-42.21	37.01	-61.57	-25.00	36.57	132	3	Horizontal
4	10684.3600	34.24	-37.97	39.13	-59.86	-25.00	34.86	125	271	Horizontal
5	13355.4500	32.38	-36.56	40.10	-59.34	-25.00	34.34	199	358	Horizontal
6	16026.5400	32.18	-34.85	37.83	-60.11	-25.00	35.11	146	255	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	4273.5	43.33	-45.60	31.25	-66.28	-25.00	41.28	248	135	Vertical
2	5342.1800	53.60	-45.18	32.85	-53.98	-25.00	28.98	156	284	Vertical
3	8013.2700	39.50	-42.21	37.01	-60.96	-25.00	35.96	147	13	Vertical
4	10684.3600	34.31	-37.97	39.13	-59.79	-25.00	34.79	175	178	Vertical
5	13355.4500	32.40	-36.56	40.10	-59.32	-25.00	34.32	145	135	Vertical
6	16026.5400	32.03	-34.85	37.83	-60.26	-25.00	35.26	126	56	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---

