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Rev.: 01

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Field Strength of Spurious Radiation

Test Band = LTE Band 66_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3404.1800	42.75	-46.28	29.43	-69.36	-13.00	56.36	211	25	Horizontal
2	5106.2700	40.88	-45.36	32.94	-66.81	-13.00	53.81	132	252	Horizontal
3	6808.3600	40.36	-44.16	35.85	-63.21	-13.00	50.21	154	283	Horizontal
4	8510.4500	38.23	-41.59	37.56	-61.06	-13.00	48.06	148	207	Horizontal
5	10212.5400	34.24	-39.45	38.81	-61.65	-13.00	48.65	197	60	Horizontal
6	11914.6300	31.33	-37.18	38.88	-62.23	-13.00	49.23	183	29	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	3404.1800	42.76	-46.28	29.43	-69.35	-13.00	56.35	233	357	Vertical
2	5106.2700	41.32	-45.36	32.94	-66.37	-13.00	53.37	215	359	Vertical
3	6808.3600	41.00	-44.16	35.85	-62.57	-13.00	49.57	145	352	Vertical
4	8510.4500	37.85	-41.59	37.56	-61.44	-13.00	48.44	196	4	Vertical
5	10212.5400	34.33	-39.45	38.81	-61.56	-13.00	48.56	258	59	Vertical
6	11914.6300	31.22	-37.18	38.88	-62.34	-13.00	49.34	142	210	Vertical



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Test Band = LTE Band 66_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.1800	42.70	-46.27	29.48	-69.35	-13.00	56.35	222	359	Horizontal
2	5181.2700	41.22	-45.30	32.98	-66.36	-13.00	53.36	302	350	Horizontal
3	6908.3600	40.39	-44.05	35.97	-62.95	-13.00	49.95	159	296	Horizontal
4	8635.4500	37.85	-41.46	37.81	-61.06	-13.00	48.06	192	29	Horizontal
5	10362.5400	34.42	-39.04	38.85	-61.03	-13.00	48.03	184	43	Horizontal
6	12089.6300	32.45	-37.37	39.04	-61.14	-13.00	48.14	170	360	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	3454.1800	42.47	-46.27	29.48	-69.58	-13.00	56.58	298	104	Vertical
2	5181.2700	40.68	-45.30	32.98	-66.90	-13.00	53.90	122	313	Vertical
3	6908.3600	39.31	-44.05	35.97	-64.03	-13.00	51.03	263	29	Vertical
4	8635.4500	37.41	-41.46	37.81	-61.50	-13.00	48.50	210	60	Vertical
5	10362.5400	33.99	-39.04	38.85	-61.46	-13.00	48.46	140	330	Vertical
6	12089.6300	31.23	-37.37	39.04	-62.36	-13.00	49.36	172	283	Vertical



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Test Band = LTE Band 66_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.1800	43.24	-46.25	29.52	-68.75	-13.00	55.75	263	4	Horizontal
2	5256.2700	41.16	-45.17	32.94	-66.34	-13.00	53.34	215	329	Horizontal
3	7008.3600	40.21	-43.61	36.10	-62.56	-13.00	49.56	148	360	Horizontal
4	8760.4500	37.37	-41.42	38.02	-61.30	-13.00	48.30	188	329	Horizontal
5	10512.5400	34.28	-38.76	38.97	-60.77	-13.00	47.77	192	4	Horizontal
6	12262.6300	32.68	-37.44	39.11	-60.91	-13.00	47.91	200	222	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	3504.1800	42.64	-46.25	29.52	-69.35	-13.00	56.35	245	88	Vertical
2	5256.2700	41.49	-45.17	32.94	-66.01	-13.00	53.01	133	344	Vertical
3	7008.3600	40.60	-43.61	36.10	-62.17	-13.00	49.17	261	134	Vertical
4	8760.4500	37.81	-41.42	38.02	-60.86	-13.00	47.86	100	286	Vertical
5	10512.5400	34.05	-38.76	38.97	-61.00	-13.00	48.00	184	74	Vertical
6	12262.6300	31.49	-37.44	39.11	-62.10	-13.00	49.10	199	120	Vertical



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Test Band = UL CA Band 2A-66A_ TM1
Test Channel = Low Channel
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3404.18	51.32	-111.74	-60.42	-13.00	47.42	263	264	Horizontal
2	3702.18	49.18	-111.07	-61.89	-13.00	48.89	241	331	Horizontal
3	5106.27	49.24	-106.94	-57.70	-13.00	44.70	176	314	Horizontal
4	5553.27	48.53	-106.36	-57.83	-13.00	44.83	265	314	Horizontal
5	6808.36	48.03	-101.99	-53.96	-13.00	40.96	284	247	Horizontal
6	7404.36	47.75	-100.78	-53.03	-13.00	40.03	178	264	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3404.18	50.13	-111.74	-61.61	-13.00	48.61	263	49	Vertical
2	3702.18	49.80	-111.07	-61.27	-13.00	48.27	365	360	Vertical
3	5106.27	48.83	-106.94	-58.11	-13.00	45.11	251	215	Vertical
4	5553.27	49.11	-106.36	-57.25	-13.00	44.25	174	231	Vertical
5	6808.36	49.04	-101.99	-52.95	-13.00	39.95	189	280	Vertical
6	7404.36	49.35	-100.78	-51.43	-13.00	38.43	265	81	Vertical



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Test Band = UL CA Band 2A-66A_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.18	50.78	-111.64	-60.86	-13.00	47.86	263	63	Horizontal
2	3742.18	52.53	-110.86	-58.33	-13.00	45.33	251	3	Horizontal
3	5181.27	48.82	-106.84	-58.02	-13.00	45.02	174	360	Horizontal
4	5613.27	50.69	-106.14	-55.45	-13.00	42.45	262	360	Horizontal
5	6908.36	47.76	-101.69	-53.93	-13.00	40.93	284	352	Horizontal
6	7484.36	47.29	-100.43	-53.14	-13.00	40.14	176	130	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.18	50.91	-111.64	-60.73	-13.00	47.73	214	360	Vertical
2	3742.18	50.57	-110.86	-60.29	-13.00	47.29	175	262	Vertical
3	5181.27	50.57	-106.84	-56.27	-13.00	43.27	265	181	Vertical
4	5613.27	50.34	-106.14	-55.80	-13.00	42.80	251	358	Vertical
5	6908.36	47.73	-101.69	-53.96	-13.00	40.96	148	359	Vertical
6	7484.36	48.45	-100.43	-51.98	-13.00	38.98	188	360	Vertical



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Test Band = UL CA Band 2A-66A_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.18	50.80	-111.52	-60.72	-13.00	47.72	263	211	Horizontal
2	3782.18	54.05	-110.66	-56.61	-13.00	43.61	241	163	Horizontal
3	5256.27	51.16	-106.73	-55.57	-13.00	42.57	176	99	Horizontal
4	5673.27	51.10	-105.88	-54.78	-13.00	41.78	262	99	Horizontal
5	7008.36	48.90	-101.63	-52.73	-13.00	39.73	362	163	Horizontal
6	7564.36	48.78	-100.01	-51.23	-13.00	38.23	241	194	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.18	50.75	-111.52	-60.77	-13.00	47.77	265	360	Vertical
2	3782.18	52.54	-110.66	-58.12	-13.00	45.12	241	162	Vertical
3	5256.27	50.45	-106.73	-56.28	-13.00	43.28	176	98	Vertical
4	5673.27	49.14	-105.88	-56.74	-13.00	43.74	294	16	Vertical
5	7008.36	47.83	-101.63	-53.80	-13.00	40.80	186	351	Vertical
6	7564.36	49.49	-100.01	-50.52	-13.00	37.52	247	340	Vertical



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Test Band = UL CA Band 5A-66A_ TM1
Test Channel = Low Channel
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	41.68	-94.97	-53.29	-13.00	40.29	262	11	Horizontal
2	2473.77	41.00	-91.42	-50.42	-13.00	37.42	251	17	Horizontal
3	3298.36	50.56	-111.65	-61.09	-13.00	48.09	174	276	Horizontal
4	3404.18	51.80	-111.74	-59.94	-13.00	46.94	186	309	Horizontal
5	5106.27	49.19	-106.94	-57.75	-13.00	44.75	102	359	Horizontal
6	6808.36	50.28	-101.99	-51.71	-13.00	38.71	109	357	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	42.50	-94.97	-52.47	-13.00	39.47	263	309	Vertical
2	2473.77	41.21	-91.42	-50.21	-13.00	37.21	241	109	Vertical
3	3298.36	51.15	-111.65	-60.50	-13.00	47.50	177	163	Vertical
4	3404.18	51.90	-111.74	-59.84	-13.00	46.84	156	359	Vertical
5	5106.27	49.45	-106.94	-57.49	-13.00	44.49	366	358	Vertical
6	6808.36	50.59	-101.99	-51.40	-13.00	38.40	354	360	Vertical



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Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	40.77	-94.93	-54.16	-13.00	41.16	162	224	Horizontal
2	2496.27	40.91	-91.26	-50.35	-13.00	37.35	241	172	Horizontal
3	3328.36	51.64	-111.69	-60.05	-13.00	47.05	176	197	Horizontal
4	3454.18	52.29	-111.64	-59.35	-13.00	46.35	284	248	Horizontal
5	5181.27	49.19	-106.84	-57.65	-13.00	44.65	196	360	Horizontal
6	6908.36	47.07	-101.69	-54.62	-13.00	41.62	254	248	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	41.84	-94.93	-53.09	-13.00	40.09	263	164	Vertical
2	2496.27	40.95	-91.26	-50.31	-13.00	37.31	241	80	Vertical
3	3328.36	51.47	-111.69	-60.22	-13.00	47.22	176	3	Vertical
4	3454.18	51.15	-111.64	-60.49	-13.00	47.49	284	358	Vertical
5	5181.27	49.39	-106.84	-57.45	-13.00	44.45	175	230	Vertical
6	6908.36	48.11	-101.69	-53.58	-13.00	40.58	265	360	Vertical



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Test Band = UL CA Band 5A-66A_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	41.00	-94.89	-53.89	-13.00	40.89	263	108	Horizontal
2	2518.77	40.81	-91.20	-50.39	-13.00	37.39	251	2	Horizontal
3	3358.36	51.52	-111.71	-60.19	-13.00	47.19	174	358	Horizontal
4	3504.18	50.29	-111.52	-61.23	-13.00	48.23	186	358	Horizontal
5	5256.27	51.52	-106.73	-55.21	-13.00	42.21	264	360	Horizontal
6	7008.36	47.79	-101.63	-53.84	-13.00	40.84	188	245	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	40.71	-94.89	-54.18	-13.00	41.18	263	131	Vertical
2	2518.77	41.34	-91.20	-49.86	-13.00	36.86	241	33	Vertical
3	3358.36	50.91	-111.71	-60.80	-13.00	47.80	178	111	Vertical
4	3504.18	51.12	-111.52	-60.40	-13.00	47.40	264	291	Vertical
5	5256.27	51.85	-106.73	-54.88	-13.00	41.88	265	360	Vertical
6	7008.36	48.22	-101.63	-53.41	-13.00	40.41	214	47	Vertical



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Test Band = UL CA Band 13A-66A_ TM1
Test Channel = Low Channel
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	41.20	-95.17	-53.97	-13.00	40.97	263	282	Horizontal
2	2332.5	46.79	-92.24	-45.45	-13.00	32.45	163	133	Horizontal
3	3119.36	51.45	-111.58	-60.13	-13.00	47.13	176	0	Horizontal
4	3454.18	50.06	-111.64	-61.58	-13.00	48.58	284	295	Horizontal
5	5181.27	49.76	-106.84	-57.08	-13.00	44.08	175	131	Horizontal
6	6908.36	49.48	-101.69	-52.21	-13.00	39.21	268	131	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	40.11	-95.17	-55.06	-13.00	42.06	263	3	Vertical
2	2339.52	40.96	-92.21	-51.25	-13.00	38.25	251	360	Vertical
3	3119.36	50.61	-111.58	-60.97	-13.00	47.97	174	10	Vertical
4	3454.18	51.57	-111.64	-60.07	-13.00	47.07	162	249	Vertical
5	5181.27	49.37	-106.84	-57.47	-13.00	44.47	284	357	Vertical
6	6908.36	48.14	-101.69	-53.55	-13.00	40.55	186	297	Vertical



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Test Band = UL CA Band 13A-66A_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	41.58	-95.17	-53.59	-13.00	40.59	251	358	Horizontal
2	2339.52	47.53	-92.21	-44.68	-13.00	31.68	142	145	Horizontal
3	3119.36	52.79	-111.58	-58.79	-13.00	45.79	263	248	Horizontal
4	3454.18	49.69	-111.64	-61.95	-13.00	48.95	284	181	Horizontal
5	5181.27	48.97	-106.84	-57.87	-13.00	44.87	176	115	Horizontal
6	6908.36	47.79	-101.69	-53.90	-13.00	40.90	244	198	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	41.06	-95.17	-54.11	-13.00	41.11	263	40	Vertical
2	2339.52	40.70	-92.21	-51.51	-13.00	38.51	241	353	Vertical
3	3119.36	51.23	-111.58	-60.35	-13.00	47.35	176	312	Vertical
4	3454.18	50.57	-111.64	-61.07	-13.00	48.07	284	328	Vertical
5	5181.27	50.71	-106.84	-56.13	-13.00	43.13	188	162	Vertical
6	6908.36	48.45	-101.69	-53.24	-13.00	40.24	263	296	Vertical



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Test Band = UL CA Band 13A-66A_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	39.98	-95.16	-55.18	-13.00	42.18	263	322	Horizontal
2	2347	50.56	-92.18	-41.62	-13.00	28.62	241	133	Horizontal
3	3129.36	51.30	-111.55	-60.25	-13.00	47.25	176	198	Horizontal
4	3504.18	50.12	-111.52	-61.40	-13.00	48.40	284	0	Horizontal
5	5256.27	50.67	-106.73	-56.06	-13.00	43.06	169	198	Horizontal
6	7008.36	47.92	-101.63	-53.71	-13.00	40.71	362	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	41.40	-95.16	-53.76	-13.00	40.76	263	324	Vertical
2	2347.02	40.69	-92.18	-51.49	-13.00	38.49	241	269	Vertical
3	3129.36	50.70	-111.55	-60.85	-13.00	47.85	176	229	Vertical
4	3504.18	50.51	-111.52	-61.01	-13.00	48.01	284	0	Vertical
5	5256.27	49.63	-106.73	-57.10	-13.00	44.10	196	2	Vertical
6	7008.36	47.55	-101.63	-54.08	-13.00	41.08	266	7	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:

$$AF = \text{Antenna Factor (dB/m)}$$

$$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$


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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-0.70	-0.000401	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-0.40	-0.000229	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-0.70	-0.000401	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-1.30	-0.000745	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-0.70	-0.000401	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	-0.60	-0.000344	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-0.70	-0.000401	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	0.70	0.000401	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-2.40	-0.001375	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	-1.80	-0.001032	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	0.20	0.000115	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-0.70	-0.000401	PASS

---End of Attachment---



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