

Report No.: SEWA2309000114RG01

Rev.: 01

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Test Band = UL CA Band 43C 3700M-3800M_ 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	5915.6667	52.62	-104.31	-51.69	-13.00	38.69	263	1	Horizontal
2	7462.38	49.76	-100.52	-50.76	-13.00	37.76	284	308	Horizontal
3	9297.8333	49.98	-95.08	-45.10	-13.00	32.10	176	215	Horizontal
4	11193.57	43.32	-90.93	-47.61	-13.00	34.61	251	215	Horizontal
5	14924.76	41.36	-90.22	-48.86	-13.00	35.86	142	334	Horizontal
6	17863.5	43.72	-84.28	-40.56	-13.00	27.56	288	321	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6158.3333	51.18	-103.08	-51.90	-13.00	38.90	263	227	Vertical
2	7462.38	54.30	-100.52	-46.22	-13.00	33.22	285	50	Vertical
3	9327	49.72	-94.88	-45.16	-13.00	32.16	265	347	Vertical
4	11193.57	44.42	-90.93	-46.51	-13.00	33.51	241	347	Vertical
5	14924.76	41.70	-90.22	-48.52	-13.00	35.52	177	38	Vertical
6	17864.6667	42.58	-84.28	-41.70	-13.00	28.70	186	50	Vertical



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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	6417.3333	52.52	-102.57	-50.05	-13.00	37.05	142	199	Horizontal
2	7522.58	49.86	-100.22	-50.36	-13.00	37.36	286	347	Horizontal
3	9315.3333	49.72	-94.97	-45.25	-13.00	32.25	255	174	Horizontal
4	11283.87	42.74	-91.12	-48.38	-13.00	35.38	144	357	Horizontal
5	15045.16	42.57	-90.30	-47.73	-13.00	34.73	163	279	Horizontal
6	17846	43.07	-84.29	-41.22	-13.00	28.22	255	266	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6670.5	52.93	-101.95	-49.02	-13.00	36.02	263	52	Vertical
2	7522.58	54.09	-100.22	-46.13	-13.00	33.13	285	320	Vertical
3	9308.3333	49.52	-95.02	-45.50	-13.00	32.50	263	158	Vertical
4	11283.87	44.17	-91.12	-46.95	-13.00	33.95	255	0	Vertical
5	15045.16	44.17	-90.30	-46.13	-13.00	33.13	144	357	Vertical
6	17863.5	43.30	-84.28	-40.98	-13.00	27.98	185	64	Vertical



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Test on the worst case for SEWM2304000122RG01:

Test Band = LTE UL CA Band 43C 3700M-3800M_ 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	9433.9375	38.03	-37.80	38.56	-56.48	-13.00	43.48	296	359	Horizontal
2	13068.8958	34.23	-34.70	39.64	-56.09	-13.00	43.09	265	347	Horizontal
3	17360.3125	32.34	-31.78	40.04	-54.65	-13.00	41.65	284	130	Horizontal
4	7402.18	41.46	-41.98	36.44	-59.34	-13.00	46.34	142	204	Horizontal
5	11103.27	32.27	-35.16	39.50	-58.65	-13.00	45.65	263	130	Horizontal
6	14804.36	31.20	-33.88	39.40	-58.55	-13.00	45.55	228	147	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	9322.2917	38.15	-38.23	38.57	-56.77	-13.00	43.77	196	3	Vertical
2	13074.1667	34.02	-34.68	39.64	-56.28	-13.00	43.28	265	360	Vertical
3	16929.5417	33.26	-31.94	38.55	-55.39	-13.00	42.39	284	354	Vertical
4	7402.18	41.35	-41.98	36.44	-59.45	-13.00	46.45	142	180	Vertical
5	11103.27	32.64	-35.16	39.50	-58.28	-13.00	45.28	263	310	Vertical
6	14804.36	31.03	-33.88	39.40	-58.72	-13.00	45.72	228	3	Vertical



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Test Band = LTE UL CA Band 43C 3700M-3800M_ 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	9583.4375	37.53	-37.83	38.54	-57.02	-13.00	44.02	296	258	Horizontal
2	13313.2708	34.12	-35.09	39.79	-56.44	-13.00	43.44	265	111	Horizontal
3	17060.3542	33.58	-32.23	38.84	-55.07	-13.00	42.07	284	220	Horizontal
4	7482.18	39.40	-41.66	36.49	-61.03	-13.00	48.03	142	330	Horizontal
5	11223.27	32.75	-35.10	39.38	-58.23	-13.00	45.23	263	360	Horizontal
6	14964.36	31.25	-34.32	39.24	-59.09	-13.00	46.09	225	130	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	9433.4583	37.82	-37.80	38.56	-56.68	-13.00	43.68	102	360	Vertical
2	12705.6875	34.71	-35.36	39.31	-56.60	-13.00	43.60	265	92	Vertical
3	17277.4167	33.09	-31.82	39.71	-54.28	-13.00	41.28	254	279	Vertical
4	7482.18	39.75	-41.66	36.49	-60.68	-13.00	47.68	142	187	Vertical
5	11223.27	33.12	-35.10	39.38	-57.86	-13.00	44.86	263	16	Vertical
6	14964.36	31.57	-34.32	39.24	-58.77	-13.00	45.77	221	222	Vertical



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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	9569.5417	37.90	-37.88	38.54	-56.69	-13.00	43.69	296	205	Horizontal
2	13084.7083	34.24	-34.66	39.65	-56.03	-13.00	43.03	265	316	Horizontal
3	17819.8333	31.80	-30.94	41.88	-52.52	-13.00	39.52	284	316	Horizontal
4	7562.18	37.74	-41.37	36.62	-62.27	-13.00	49.27	142	316	Horizontal
5	11343.27	32.79	-35.42	39.26	-58.63	-13.00	45.63	263	93	Horizontal
6	15124.36	31.79	-33.83	39.04	-58.27	-13.00	45.27	224	167	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	9411.4167	37.08	-37.70	38.56	-57.32	-13.00	44.32	196	332	Vertical
2	14190.1458	33.80	-34.86	40.01	-56.31	-13.00	43.31	265	132	Vertical
3	17942.5	33.01	-31.24	42.37	-51.12	-13.00	38.12	254	277	Vertical
4	7562.18	36.54	-41.37	36.62	-63.47	-13.00	50.47	102	96	Vertical
5	11343.27	32.62	-35.42	39.26	-58.80	-13.00	45.80	254	151	Vertical
6	15124.36	31.89	-33.83	39.04	-58.17	-13.00	45.17	146	356	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



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	VH	NT	31.50	0.008536	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	VL	NT	37.10	0.010054	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	VN	NT	36.90	0.010000	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	NV	50	40.60	0.011002	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	NV	40	44.00	0.011924	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	NV	30	44.60	0.012086	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	NV	20	40.70	0.011030	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	NV	10	50.80	0.013767	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	NV	0	45.70	0.012384	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	NV	-10	43.50	0.011788	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	NV	-20	38.10	0.010325	PASS
43-43	20MHz-20MHz	QPSK-QPSK	44491-44689	100RB#0-100RB#0	NV	-30	40.80	0.011057	PASS

---End of Attachment---



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