

Report No.: SEWA2204000008RG02

Rev.: 01

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Field Strength of Spurious Radiation

Test Band = SA Band 41_ 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	5002.2	50.56	-107.58	-57.02	-25.00	32.02	263	135	Horizontal
2	7503.3	48.54	-100.34	-51.80	-25.00	26.80	254	359	Horizontal
3	9831.4286	55.88	-94.16	-38.28	-25.00	13.28	178	330	Horizontal
4	12505.5	43.61	-91.38	-47.77	-25.00	22.77	265	360	Horizontal
5	15006.6	42.17	-90.07	-47.90	-25.00	22.90	241	3	Horizontal
6	17695.7143	47.27	-84.88	-37.61	-25.00	12.61	188	144	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2	50.55	-107.58	-57.03	-25.00	32.03	263	256	Vertical
2	7503.3	48.44	-100.34	-51.90	-25.00	26.90	254	359	Vertical
3	9829.2857	59.51	-94.17	-34.66	-25.00	9.66	178	310	Vertical
4	12505.5	44.02	-91.38	-47.36	-25.00	22.36	265	256	Vertical
5	15006.6	42.83	-90.07	-47.24	-25.00	22.24	241	310	Vertical
6	17507.7	40.38	-86.50	-46.12	-25.00	21.12	145	3	Vertical



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Test Band = SA Band 41_ 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	5096.16	49.48	-106.96	-57.48	-25.00	32.48	263	3	Horizontal
2	7644.24	49.43	-99.76	-50.33	-25.00	25.33	254	230	Horizontal
3	10192.32	43.68	-93.11	-49.43	-25.00	24.43	142	152	Horizontal
4	12740.4	43.91	-91.03	-47.12	-25.00	22.12	262	221	Horizontal
5	15288.48	43.30	-90.16	-46.86	-25.00	21.86	254	257	Horizontal
6	17695.7143	46.33	-84.88	-38.55	-25.00	13.55	188	356	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.16	50.82	-106.96	-56.14	-25.00	31.14	241	149	Vertical
2	7644.24	49.60	-99.76	-50.16	-25.00	25.16	175	235	Vertical
3	10192.32	44.28	-93.11	-48.83	-25.00	23.83	263	360	Vertical
4	12740.4	45.36	-91.03	-45.67	-25.00	20.67	284	280	Vertical
5	15288.48	42.97	-90.16	-47.19	-25.00	22.19	186	174	Vertical
6	17836.56	40.16	-84.21	-44.05	-25.00	19.05	294	218	Vertical



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Test Band = SA Band 41_ 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	5190.18	49.66	-106.82	-57.16	-25.00	32.16	241	211	Horizontal
2	7785.27	49.98	-98.90	-48.92	-25.00	23.92	186	152	Horizontal
3	10380.36	43.61	-92.87	-49.26	-25.00	24.26	254	360	Horizontal
4	12975.45	44.02	-90.59	-46.57	-25.00	21.57	175	20	Horizontal
5	15570.54	42.43	-90.76	-48.33	-25.00	23.33	265	143	Horizontal
6	17695.7143	47.70	-84.88	-37.18	-25.00	12.18	241	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5190.18	50.37	-106.82	-56.45	-25.00	31.45	263	91	Vertical
2	7785.27	48.37	-98.90	-50.53	-25.00	25.53	284	239	Vertical
3	10380.36	43.70	-92.87	-49.17	-25.00	24.17	175	359	Vertical
4	12975.45	42.74	-90.59	-47.85	-25.00	22.85	265	205	Vertical
5	15570.54	42.44	-90.76	-48.32	-25.00	23.32	241	100	Vertical
6	17892.8571	42.77	-84.13	-41.36	-25.00	16.36	178	57	Vertical



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Test Band = SA UL MIMO Band 41_ 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	5002.2	50.54	-107.58	-57.04	-25.00	32.04	142	295	Horizontal
2	7503.3	49.17	-100.34	-51.17	-25.00	26.17	263	269	Horizontal
3	9831.4286	57.97	-94.16	-36.19	-25.00	11.19	284	352	Horizontal
4	12505.5	45.43	-91.38	-45.95	-25.00	20.95	176	286	Horizontal
5	15006.6	42.45	-90.07	-47.62	-25.00	22.62	241	81	Horizontal
6	17507.7	40.46	-86.50	-46.04	-25.00	21.04	187	20	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2	49.41	-107.58	-58.17	-25.00	33.17	146	360	Vertical
2	7503.3	49.82	-100.34	-50.52	-25.00	25.52	262	149	Vertical
3	9831.4286	59.29	-94.16	-34.87	-25.00	9.87	241	325	Vertical
4	12505.5	43.96	-91.38	-47.42	-25.00	22.42	176	218	Vertical
5	14745	49.24	-89.53	-40.29	-25.00	15.29	244	265	Vertical
6	17507.7	38.85	-86.50	-47.65	-25.00	22.65	187	106	Vertical



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Test Band = SA UL MIMO Band 41_ 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	5087.1429	53.92	-107.03	-53.11	-25.00	28.11	265	266	Horizontal
2	7644.24	49.56	-99.76	-50.20	-25.00	25.20	241	62	Horizontal
3	10192.32	44.01	-93.11	-49.10	-25.00	24.10	176	62	Horizontal
4	12740.4	43.15	-91.03	-47.88	-25.00	22.88	284	317	Horizontal
5	15288.48	43.12	-90.16	-47.04	-25.00	22.04	144	151	Horizontal
6	17695.7143	46.65	-84.88	-38.23	-25.00	13.23	265	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5087.1429	58.08	-107.03	-48.95	-25.00	23.95	263	182	Vertical
2	7644.24	48.97	-99.76	-50.79	-25.00	25.79	241	286	Vertical
3	10192.32	44.65	-93.11	-48.46	-25.00	23.46	178	347	Vertical
4	12740.4	43.82	-91.03	-47.21	-25.00	22.21	265	66	Vertical
5	15288.48	42.19	-90.16	-47.97	-25.00	22.97	241	182	Vertical
6	17695.7143	43.67	-84.88	-41.21	-25.00	16.21	188	353	Vertical



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Test Band = SA UL MIMO Band 41_ 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	5190.18	50.25	-106.82	-56.57	-25.00	31.57	163	232	Horizontal
2	7785.27	48.45	-98.90	-50.45	-25.00	25.45	241	232	Horizontal
3	10380.36	44.41	-92.87	-48.46	-25.00	23.46	178	179	Horizontal
4	12975.45	43.64	-90.59	-46.95	-25.00	21.95	263	355	Horizontal
5	15570.54	41.57	-90.76	-49.19	-25.00	24.19	241	309	Horizontal
6	17787.8571	41.25	-84.34	-43.09	-25.00	18.09	144	291	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5190.18	51.25	-106.82	-55.57	-25.00	30.57	142	142	Vertical
2	7785.27	49.23	-98.90	-49.67	-25.00	24.67	263	142	Vertical
3	10380.36	42.19	-92.87	-50.68	-25.00	25.68	254	203	Vertical
4	12975.45	42.45	-90.59	-48.14	-25.00	23.14	174	55	Vertical
5	15570.54	42.30	-90.76	-48.46	-25.00	23.46	152	27	Vertical
6	17695.7143	42.69	-84.88	-42.19	-25.00	17.19	263	360	Vertical



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Test Band = DC_5A-n41A_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	5002.2	49.88	-107.58	-57.70	-25.00	32.70	263	11	Horizontal
2	7503.3	48.65	-100.34	-51.69	-25.00	26.69	241	322	Horizontal
3	10004.4	45.27	-93.89	-48.62	-25.00	23.62	178	0	Horizontal
4	12505.5	43.81	-91.38	-47.57	-25.00	22.57	263	296	Horizontal
5	15006.6	43.44	-90.07	-46.63	-25.00	21.63	254	331	Horizontal
6	17507.7	39.88	-86.50	-46.62	-25.00	21.62	188	26	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2	50.71	-107.58	-56.87	-25.00	31.87	263	331	Vertical
2	7503.3	48.33	-100.34	-52.01	-25.00	27.01	284	357	Vertical
3	10004.4	45.08	-93.89	-48.81	-25.00	23.81	176	315	Vertical
4	12505.5	43.40	-91.38	-47.98	-25.00	22.98	251	176	Vertical
5	15006.6	42.65	-90.07	-47.42	-25.00	22.42	144	324	Vertical
6	17507.7	39.83	-86.50	-46.67	-25.00	21.67	196	219	Vertical



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Test Band = DC_5A-n41A_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	5096.16	49.69	-106.96	-57.27	-25.00	32.27	263	324	Horizontal
2	7644.24	48.93	-99.76	-50.83	-25.00	25.83	254	349	Horizontal
3	10192.32	44.16	-93.11	-48.95	-25.00	23.95	186	332	Horizontal
4	12740.4	44.89	-91.03	-46.14	-25.00	21.14	284	106	Horizontal
5	15288.48	42.35	-90.16	-47.81	-25.00	22.81	175	228	Horizontal
6	17836.56	40.26	-84.21	-43.95	-25.00	18.95	266	158	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.16	49.31	-106.96	-57.65	-25.00	32.65	142	202	Vertical
2	7644.24	49.88	-99.76	-49.88	-25.00	24.88	263	218	Vertical
3	10192.32	44.69	-93.11	-48.42	-25.00	23.42	287	253	Vertical
4	12740.4	43.41	-91.03	-47.62	-25.00	22.62	174	229	Vertical
5	15288.48	43.43	-90.16	-46.73	-25.00	21.73	265	333	Vertical
6	17836.56	41.67	-84.21	-42.54	-25.00	17.54	241	288	Vertical



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Test Band = DC_5A-n41A_ 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	5190.18	50.11	-106.82	-56.71	-25.00	31.71	400	11	Horizontal
2	7785.27	49.17	-98.90	-49.73	-25.00	24.73	284	315	Horizontal
3	10380.36	43.44	-92.87	-49.43	-25.00	24.43	176	105	Horizontal
4	12975.45	43.12	-90.59	-47.47	-25.00	22.47	241	253	Horizontal
5	15570.54	43.19	-90.76	-47.57	-25.00	22.57	144	122	Horizontal
6	17695.7143	46.05	-84.88	-38.83	-25.00	13.83	266	217	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5190.18	49.60	-106.82	-57.22	-25.00	32.22	142	58	Vertical
2	7785.27	49.08	-98.90	-49.82	-25.00	24.82	263	31	Vertical
3	10380.36	43.18	-92.87	-49.69	-25.00	24.69	285	356	Vertical
4	12975.45	43.51	-90.59	-47.08	-25.00	22.08	155	340	Vertical
5	15570.54	41.76	-90.76	-49.00	-25.00	24.00	265	24	Vertical
6	17832.8571	41.95	-84.22	-42.27	-25.00	17.27	241	304	Vertical



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Test Band = NR UL CA n25A-n41A_ 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	3702.18	48.91	-111.07	-62.16	-25.00	37.16	163	11	Horizontal
2	5002.2	49.97	-107.58	-57.61	-25.00	32.61	251	82	Horizontal
3	5553.27	50.27	-106.36	-56.09	-25.00	31.09	174	273	Horizontal
4	7404.36	49.94	-100.77	-50.83	-25.00	25.83	156	143	Horizontal
5	7503.3	49.53	-100.34	-50.81	-25.00	25.81	265	82	Horizontal
6	10004.4	46.44	-93.89	-47.45	-25.00	22.45	241	221	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	49.31	-111.07	-61.76	-25.00	36.76	263	80	Vertical
2	5002.2	50.26	-107.58	-57.32	-25.00	32.32	254	88	Vertical
3	5553.27	50.47	-106.36	-55.89	-25.00	30.89	174	37	Vertical
4	7404.36	48.16	-100.77	-52.61	-25.00	27.61	185	211	Vertical
5	7503.3	49.09	-100.34	-51.25	-25.00	26.25	265	334	Vertical
6	10004.4	45.04	-93.89	-48.85	-25.00	23.85	235	114	Vertical



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Test Band = NR UL CA n25A-n41A_ 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	3742.18	49.29	-110.86	-61.57	-25.00	36.57	163	359	Horizontal
2	5096.16	50.69	-106.96	-56.27	-25.00	31.27	251	133	Horizontal
3	5613.27	50.72	-106.14	-55.42	-25.00	30.42	142	281	Horizontal
4	7484.36	48.22	-100.43	-52.21	-25.00	27.21	263	211	Horizontal
5	7644.24	50.77	-99.76	-48.99	-25.00	23.99	254	256	Horizontal
6	10192.32	43.64	-93.11	-49.47	-25.00	24.47	188	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	48.86	-110.86	-62.00	-25.00	37.00	142	162	Vertical
2	5096.16	49.31	-106.96	-57.65	-25.00	32.65	263	360	Vertical
3	5613.27	50.19	-106.14	-55.95	-25.00	30.95	254	110	Vertical
4	7484.36	48.56	-100.43	-51.87	-25.00	26.87	184	180	Vertical
5	7644.24	49.32	-99.76	-50.44	-25.00	25.44	163	329	Vertical
6	10192.32	43.39	-93.11	-49.72	-25.00	24.72	244	359	Vertical



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Test Band = NR UL CA n25A-n41A_ 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	3792.18	49.71	-110.61	-60.90	-25.00	35.90	263	154	Horizontal
2	5190.18	50.36	-106.82	-56.46	-25.00	31.46	241	343	Horizontal
3	5688.27	49.83	-105.81	-55.98	-25.00	30.98	175	11	Horizontal
4	7584.36	49.43	-99.90	-50.47	-25.00	25.47	263	54	Horizontal
5	7785.27	48.23	-98.90	-50.67	-25.00	25.67	284	360	Horizontal
6	10380.36	42.78	-92.87	-50.09	-25.00	25.09	144	154	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3792.18	49.39	-110.61	-61.22	-25.00	36.22	263	11	Vertical
2	5190.18	49.85	-106.82	-56.97	-25.00	31.97	241	169	Vertical
3	5688.27	49.44	-105.81	-56.37	-25.00	31.37	175	358	Vertical
4	7584.36	49.01	-99.90	-50.89	-25.00	25.89	263	135	Vertical
5	7785.27	49.01	-98.90	-49.89	-25.00	24.89	241	256	Vertical
6	10380.36	43.56	-92.87	-49.31	-25.00	24.31	196	350	Vertical



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	0.200000	0.000077	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.400000	-0.001697	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.800000	-0.000309	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VH	NT	0.200000	0.000077	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VN	NT	4.400000	0.001697	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VL	NT	-4.600000	-0.001774	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.200000	-0.001234	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.000000	-0.000386	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.900000	-0.001504	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.700000	-0.001041	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.000000	-0.001157	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-2.100000	-0.000810	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-2.500000	-0.000964	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-1.600000	-0.000617	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.800000	-0.000694	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-30	2.400000	0.000926	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-20	-5.400000	-0.002083	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-10	-1.300000	-0.000501	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	0	-1.600000	-0.000617	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	10	-2.400000	-0.000926	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	20	-2.100000	-0.000810	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	30	1.600000	0.000617	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	40	0.300000	0.000116	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	50	-1.800000	-0.000694	PASS

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