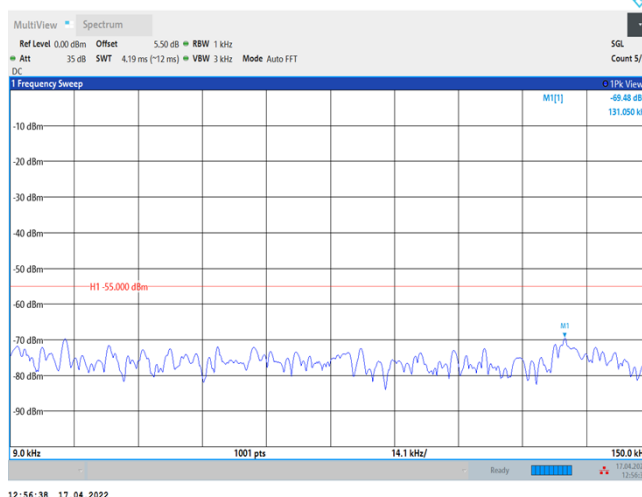


Report No.: SEWA2204000008RG01

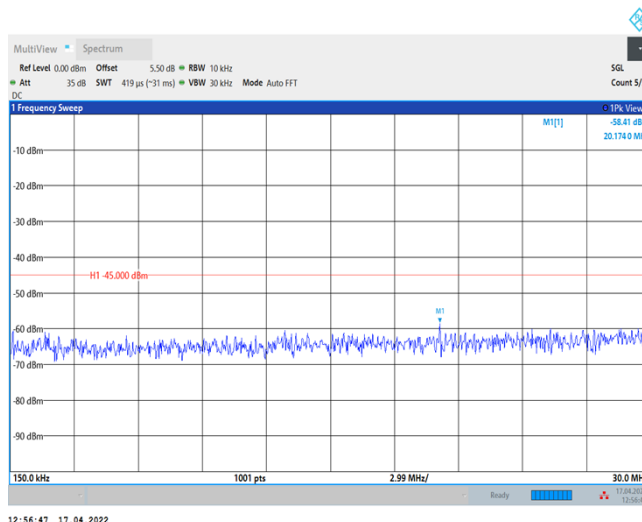
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



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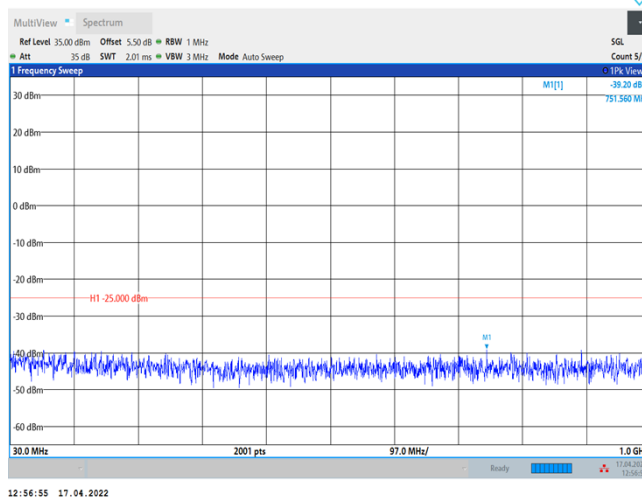
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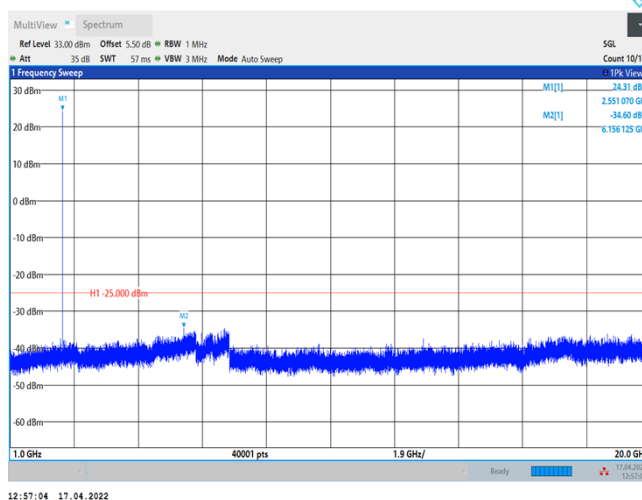
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



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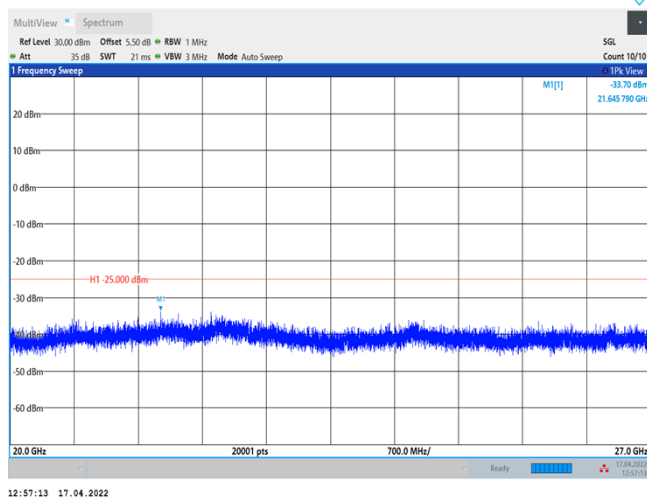
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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_ 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	5002.18	50.40	-107.58	-57.18	-25.00	32.18	263	94	Horizontal
2	7503.27	47.98	-100.34	-52.36	-25.00	27.36	251	246	Horizontal
3	10004.36	45.10	-93.89	-48.79	-25.00	23.79	175	348	Horizontal
4	12505.45	43.27	-91.38	-48.11	-25.00	23.11	265	4	Horizontal
5	15006.54	43.02	-90.07	-47.05	-25.00	22.05	177	4	Horizontal
6	17507.63	39.83	-86.50	-46.67	-25.00	21.67	142	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	53.76	-107.58	-53.82	-25.00	28.82	263	0	Vertical
2	7503.27	49.05	-100.34	-51.29	-25.00	26.29	251	221	Vertical
3	10004.36	45.39	-93.89	-48.50	-25.00	23.50	152	187	Vertical
4	12505.45	44.00	-91.38	-47.38	-25.00	22.38	262	0	Vertical
5	15006.54	42.56	-90.07	-47.51	-25.00	22.51	116	254	Vertical
6	17507.63	39.96	-86.50	-46.54	-25.00	21.54	217	325	Vertical



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Test Band = LTE Band 7_ 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	5052.18	53.25	-107.26	-54.01	-25.00	29.01	263	163	Horizontal
2	7578.27	48.29	-99.93	-51.64	-25.00	26.64	241	235	Horizontal
3	10104.36	44.14	-93.44	-49.30	-25.00	24.30	176	154	Horizontal
4	12630.45	42.56	-90.75	-48.19	-25.00	23.19	265	280	Horizontal
5	15156.54	41.76	-89.53	-47.77	-25.00	22.77	255	0	Horizontal
6	17682.63	40.99	-85.04	-44.05	-25.00	19.05	214	326	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	54.35	-107.26	-52.91	-25.00	27.91	263	155	Vertical
2	7578.27	48.45	-99.93	-51.48	-25.00	26.48	251	62	Vertical
3	10104.36	44.38	-93.44	-49.06	-25.00	24.06	142	188	Vertical
4	12630.45	43.29	-90.75	-47.46	-25.00	22.46	265	17	Vertical
5	15156.54	41.88	-89.53	-47.65	-25.00	22.65	284	107	Vertical
6	17682.63	41.24	-85.04	-43.80	-25.00	18.80	177	0	Vertical



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Test Band = LTE Band 7_ 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	5102.18	49.63	-106.94	-57.31	-25.00	32.31	263	348	Horizontal
2	7653.27	48.51	-99.75	-51.24	-25.00	26.24	241	127	Horizontal
3	10204.36	43.61	-93.10	-49.49	-25.00	24.49	176	207	Horizontal
4	12755.45	43.12	-91.01	-47.89	-25.00	22.89	254	151	Horizontal
5	15306.54	43.04	-90.33	-47.29	-25.00	22.29	177	151	Horizontal
6	17857.63	40.92	-84.18	-43.26	-25.00	18.26	185	302	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	49.80	-106.94	-57.14	-25.00	32.14	263	178	Vertical
2	7653.27	49.66	-99.75	-50.09	-25.00	25.09	251	52	Vertical
3	10204.36	44.48	-93.10	-48.62	-25.00	23.62	174	303	Vertical
4	12755.45	43.60	-91.01	-47.41	-25.00	22.41	152	291	Vertical
5	15306.54	42.91	-90.33	-47.42	-25.00	22.42	263	339	Vertical
6	17857.63	40.93	-84.18	-43.25	-25.00	18.25	241	64	Vertical



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Test Band = UL CA Band 2A-7A_ 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	52.03	-111.07	-59.04	-25.00	34.04	262	334	Horizontal
2	5002.18	51.54	-107.58	-56.04	-25.00	31.04	251	286	Horizontal
3	5553.27	50.28	-106.36	-56.08	-25.00	31.08	176	296	Horizontal
4	7404.36	48.08	-100.77	-52.69	-25.00	27.69	291	3	Horizontal
5	7503.27	49.29	-100.34	-51.05	-25.00	26.05	182	355	Horizontal
6	10004.36	44.60	-93.89	-49.29	-25.00	24.29	264	229	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	50.61	-111.07	-60.46	-25.00	35.46	263	197	Vertical
2	5002.18	49.48	-107.58	-58.10	-25.00	33.10	241	354	Vertical
3	5553.27	49.64	-106.36	-56.72	-25.00	31.72	178	78	Vertical
4	7404.36	48.14	-100.77	-52.63	-25.00	27.63	265	22	Vertical
5	7503.27	48.41	-100.34	-51.93	-25.00	26.93	244	242	Vertical
6	10004.36	46.00	-93.89	-47.89	-25.00	22.89	178	310	Vertical



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Test Band = UL CA Band 2A-7A_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	50.17	-110.86	-60.69	-25.00	35.69	263	3	Horizontal
2	5052.18	49.23	-107.26	-58.03	-25.00	33.03	142	253	Horizontal
3	5613.27	50.50	-106.14	-55.64	-25.00	30.64	266	161	Horizontal
4	7484.36	49.01	-100.43	-51.42	-25.00	26.42	284	161	Horizontal
5	7578.27	49.27	-99.93	-50.66	-25.00	25.66	176	11	Horizontal
6	10104.36	43.72	-93.44	-49.72	-25.00	24.72	294	301	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	50.51	-110.86	-60.35	-25.00	35.35	262	163	Vertical
2	5052.18	49.29	-107.26	-57.97	-25.00	32.97	241	3	Vertical
3	5613.27	50.46	-106.14	-55.68	-25.00	30.68	175	290	Vertical
4	7484.36	51.21	-100.43	-49.22	-25.00	24.22	286	129	Vertical
5	7578.27	48.80	-99.93	-51.13	-25.00	26.13	241	45	Vertical
6	10104.36	44.72	-93.44	-48.72	-25.00	23.72	178	359	Vertical



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Test Band = UL CA Band 2A-7A_ 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	3782.18	49.13	-110.65	-61.52	-25.00	36.52	263	185	Horizontal
2	5102.18	49.14	-106.94	-57.80	-25.00	32.80	241	359	Horizontal
3	5673.27	50.32	-105.87	-55.55	-25.00	30.55	261	241	Horizontal
4	7564.36	49.43	-100.00	-50.57	-25.00	25.57	188	326	Horizontal
5	7653.27	49.89	-99.75	-49.86	-25.00	24.86	265	197	Horizontal
6	10204.36	43.55	-93.10	-49.55	-25.00	24.55	142	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	49.71	-110.65	-60.94	-25.00	35.94	214	300	Vertical
2	5102.18	49.65	-106.94	-57.29	-25.00	32.29	162	351	Vertical
3	5673.27	50.19	-105.87	-55.68	-25.00	30.68	241	206	Vertical
4	7564.36	48.60	-100.00	-51.40	-25.00	26.40	262	218	Vertical
5	7653.27	48.83	-99.75	-50.92	-25.00	25.92	241	333	Vertical
6	10204.36	44.76	-93.10	-48.34	-25.00	23.34	175	57	Vertical



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Test Band = UL CA Band 4A-7A_ 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	3422.18	51.51	-111.70	-60.19	-25.00	35.19	263	298	Horizontal
2	5002.18	50.11	-107.58	-57.47	-25.00	32.47	284	360	Horizontal
3	5133.27	51.26	-106.90	-55.64	-25.00	30.64	241	360	Horizontal
4	6844.36	48.53	-101.87	-53.34	-25.00	28.34	176	3	Horizontal
5	7503.27	48.40	-100.34	-51.94	-25.00	26.94	264	275	Horizontal
6	10004.36	44.73	-93.89	-49.16	-25.00	24.16	177	68	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	51.03	-111.70	-60.67	-25.00	35.67	263	354	Vertical
2	5002.18	49.67	-107.58	-57.91	-25.00	32.91	265	218	Vertical
3	5133.27	50.28	-106.90	-56.62	-25.00	31.62	241	206	Vertical
4	6844.36	49.23	-101.87	-52.64	-25.00	27.64	178	284	Vertical
5	7503.27	48.46	-100.34	-51.88	-25.00	26.88	244	149	Vertical
6	10004.36	46.08	-93.89	-47.81	-25.00	22.81	178	360	Vertical



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Test Band = UL CA Band 4A-7A_ 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	3447.18	54.68	-111.65	-56.97	-25.00	31.97	263	162	Horizontal
2	5052.18	49.55	-107.26	-57.71	-25.00	32.71	241	12	Horizontal
3	5170.77	50.03	-106.85	-56.82	-25.00	31.82	176	208	Horizontal
4	6894.36	48.62	-101.70	-53.08	-25.00	28.08	265	351	Horizontal
5	7578.27	48.95	-99.93	-50.98	-25.00	25.98	241	355	Horizontal
6	10104.36	44.16	-93.44	-49.28	-25.00	24.28	178	355	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	55.98	-111.65	-55.67	-25.00	30.67	142	149	Vertical
2	5052.18	49.47	-107.26	-57.79	-25.00	32.79	262	277	Vertical
3	5170.77	49.59	-106.85	-57.26	-25.00	32.26	241	334	Vertical
4	6894.36	48.32	-101.70	-53.38	-25.00	28.38	176	11	Vertical
5	7578.27	48.98	-99.93	-50.95	-25.00	25.95	284	277	Vertical
6	10104.36	44.56	-93.44	-48.88	-25.00	23.88	177	33	Vertical



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Test Band = UL CA Band 4A-7A_ 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	3472.18	53.96	-111.60	-57.64	-25.00	32.64	265	279	Horizontal
2	5102.18	49.87	-106.94	-57.07	-25.00	32.07	241	220	Horizontal
3	5208.27	51.96	-106.80	-54.84	-25.00	29.84	176	161	Horizontal
4	6944.36	47.77	-101.67	-53.90	-25.00	28.90	284	104	Horizontal
5	7653.27	50.52	-99.75	-49.23	-25.00	24.23	184	301	Horizontal
6	10204.36	44.07	-93.10	-49.03	-25.00	24.03	264	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	53.41	-111.60	-58.19	-25.00	33.19	241	25	Vertical
2	5102.18	49.52	-106.94	-57.42	-25.00	32.42	175	196	Vertical
3	5208.27	51.06	-106.80	-55.74	-25.00	30.74	262	150	Vertical
4	6944.36	49.02	-101.67	-52.65	-25.00	27.65	241	324	Vertical
5	7653.27	48.49	-99.75	-51.26	-25.00	26.26	177	244	Vertical
6	10204.36	43.65	-93.10	-49.45	-25.00	24.45	266	82	Vertical



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Test Band = UL CA Band 5A-7A_ 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	41.76	-94.97	-53.21	-25.00	28.21	263	29	Horizontal
2	2473.77	41.60	-91.42	-49.82	-25.00	24.82	251	357	Horizontal
3	3298.36	50.97	-111.66	-60.69	-25.00	35.69	174	162	Horizontal
4	5002.18	50.73	-107.58	-56.85	-25.00	31.85	186	66	Horizontal
5	7503.27	48.00	-100.34	-52.34	-25.00	27.34	241	162	Horizontal
6	10004.36	44.54	-93.89	-49.35	-25.00	24.35	188	300	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	39.96	-94.97	-55.01	-25.00	30.01	263	258	Vertical
2	2473.77	40.62	-91.42	-50.80	-25.00	25.80	251	246	Vertical
3	3298.36	50.93	-111.66	-60.73	-25.00	35.73	175	230	Vertical
4	5002.18	50.44	-107.58	-57.14	-25.00	32.14	265	3	Vertical
5	7503.27	48.93	-100.34	-51.41	-25.00	26.41	255	218	Vertical
6	10004.36	44.88	-93.89	-49.01	-25.00	24.01	177	358	Vertical



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Test Band = UL CA Band 5A-7A_ 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	1664.18	40.52	-94.93	-54.41	-25.00	29.41	263	236	Horizontal
2	2496.27	40.14	-91.26	-51.12	-25.00	26.12	251	1	Horizontal
3	3328.36	52.37	-111.69	-59.32	-25.00	34.32	174	78	Horizontal
4	5052.18	50.09	-107.26	-57.17	-25.00	32.17	186	240	Horizontal
5	7578.27	49.13	-99.93	-50.80	-25.00	25.80	264	240	Horizontal
6	10104.36	43.67	-93.44	-49.77	-25.00	24.77	188	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	40.45	-94.93	-54.48	-25.00	29.48	263	357	Vertical
2	2496.27	40.22	-91.26	-51.04	-25.00	26.04	241	11	Vertical
3	3328.36	51.33	-111.69	-60.36	-25.00	35.36	178	359	Vertical
4	5052.18	50.12	-107.26	-57.14	-25.00	32.14	265	161	Vertical
5	7578.27	49.18	-99.93	-50.75	-25.00	25.75	284	149	Vertical
6	10104.36	43.95	-93.44	-49.49	-25.00	24.49	177	360	Vertical



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Test Band = UL CA Band 5A-7A_ 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	1679.18	40.34	-94.89	-54.55	-25.00	29.55	263	0	Horizontal
2	2518.77	41.28	-91.20	-49.92	-25.00	24.92	241	340	Horizontal
3	3358.36	50.54	-111.71	-61.17	-25.00	36.17	178	360	Horizontal
4	5102.18	50.37	-106.94	-56.57	-25.00	31.57	262	209	Horizontal
5	7653.27	48.95	-99.75	-50.80	-25.00	25.80	281	150	Horizontal
6	10204.36	43.78	-93.10	-49.32	-25.00	24.32	175	233	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	41.39	-94.89	-53.50	-25.00	28.50	263	234	Vertical
2	2518.77	40.80	-91.20	-50.40	-25.00	25.40	251	224	Vertical
3	3358.36	50.40	-111.71	-61.31	-25.00	36.31	178	217	Vertical
4	5102.18	49.81	-106.94	-57.13	-25.00	32.13	262	217	Vertical
5	7653.27	49.02	-99.75	-50.73	-25.00	25.73	241	138	Vertical
6	10204.36	44.12	-93.10	-48.98	-25.00	23.98	178	335	Vertical



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-1.90	-0.000750	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	1.60	0.000631	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	0.60	0.000237	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	0.90	0.000355	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-0.70	-0.000276	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	2.10	0.000828	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-1.00	-0.000394	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	0.30	0.000118	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-0.50	-0.000197	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-0.60	-0.000237	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-0.70	-0.000276	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-1.00	-0.000394	PASS

The End



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