

Report No.: SEWA2304000052RG01

Rev.: 01

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# Appendix B.1

## WCDMA Band II



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	9262	24.52	24.77	33	PASS
Band2	9400	24.98	25.23	33	PASS
Band2	9538	23.85	24.10	33	PASS



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## Peak-to-Average Ratio

### Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	4.2	13	PASS
Band2	9400	3.92	13	PASS
Band2	9538	4.6	13	PASS



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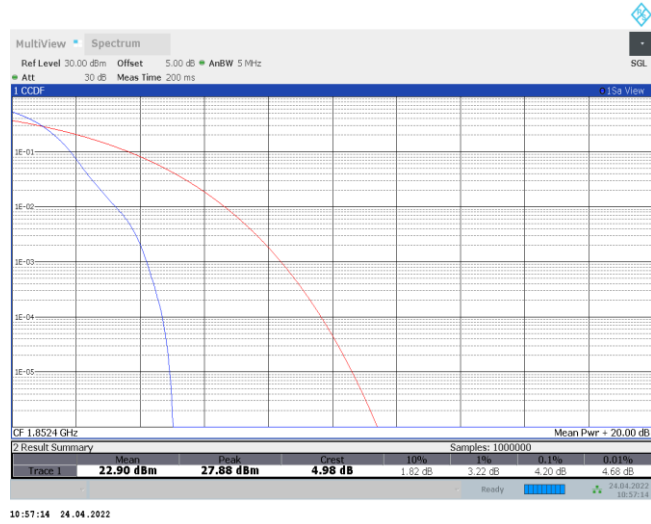
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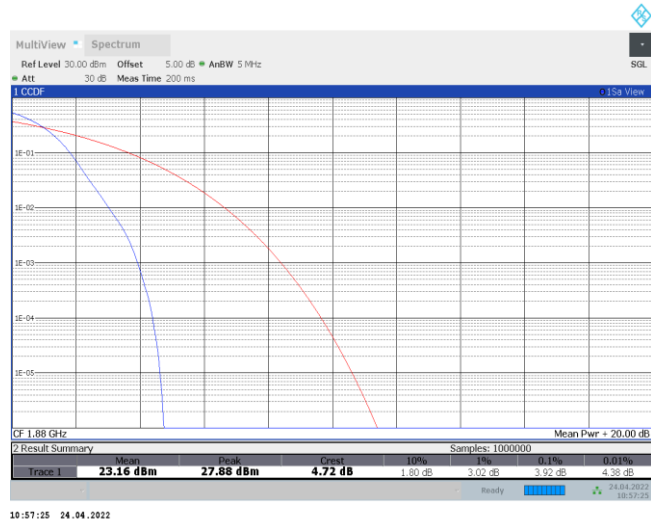
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Test Graphs

Band2-9262



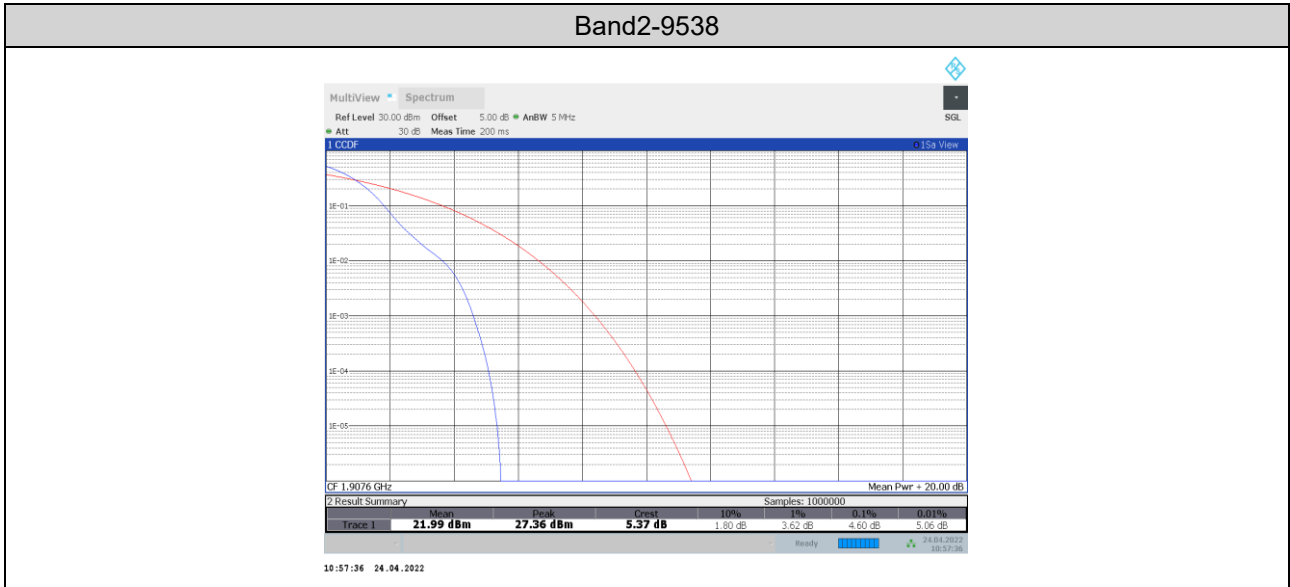
Band2-9400



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## Modulation Characteristics

### Test Result

Band	Channel	Result	Verdict
Band2	9400	PASS	PASS
Band4	1413	PASS	PASS
Band5	4182	PASS	PASS



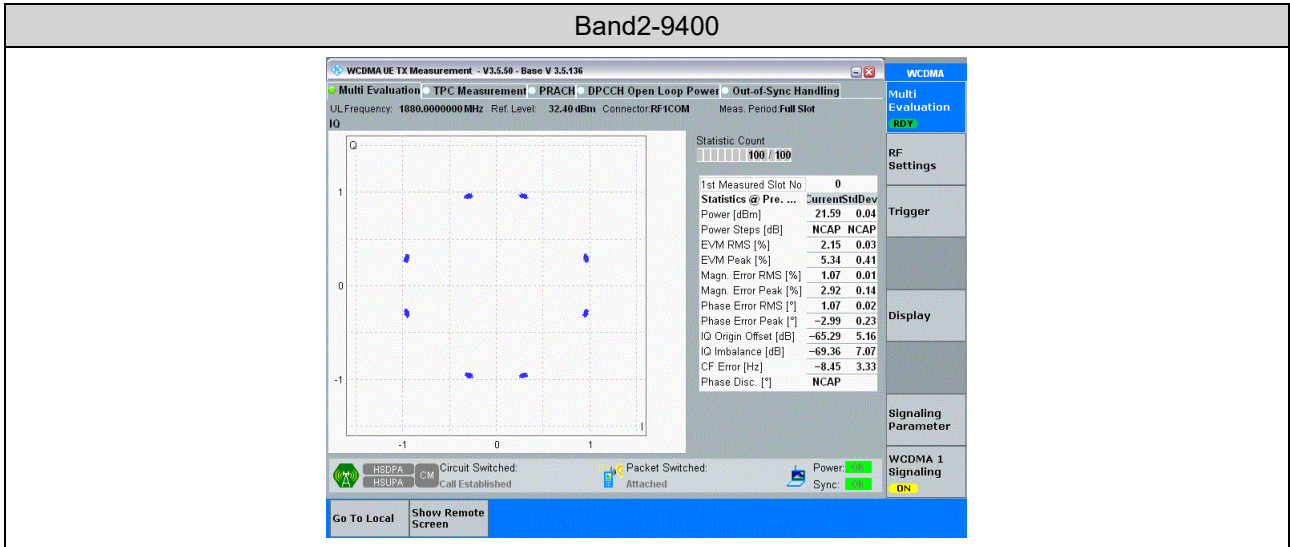
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Test Graphs



26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9262	4.174	4.74	---	PASS
Band2	9400	4.17	4.74	---	PASS
Band2	9538	4.156	4.73	---	PASS

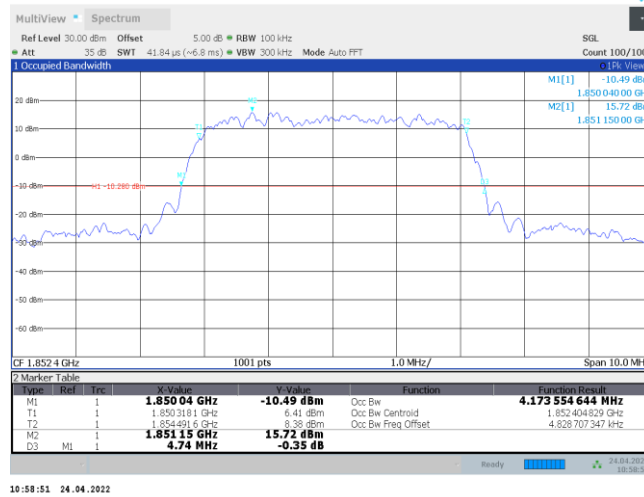


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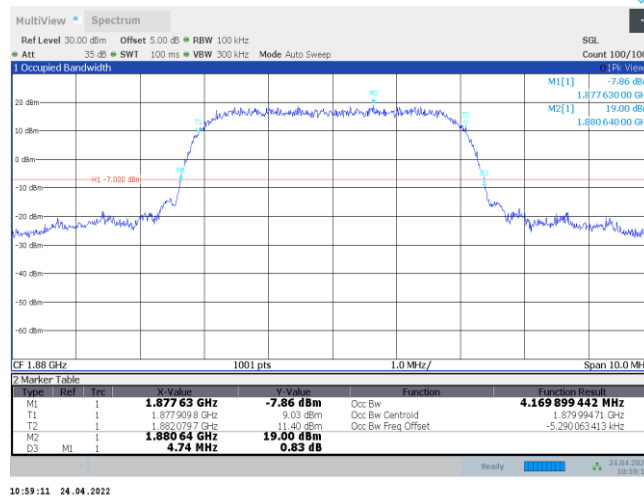
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Test Graphs

Band2-9262-4.74



Band2-9400-4.74



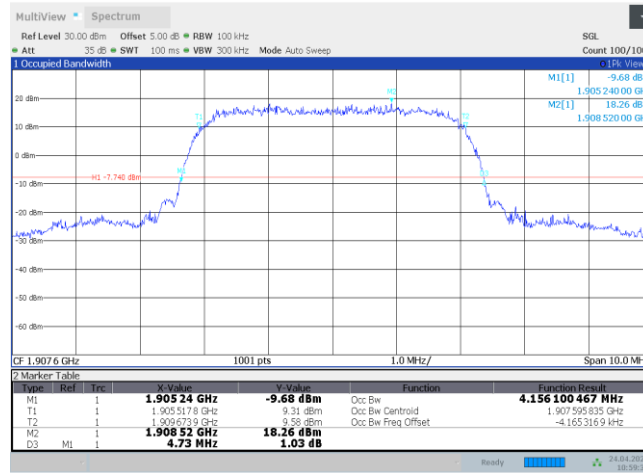
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Band2-9538-4.73



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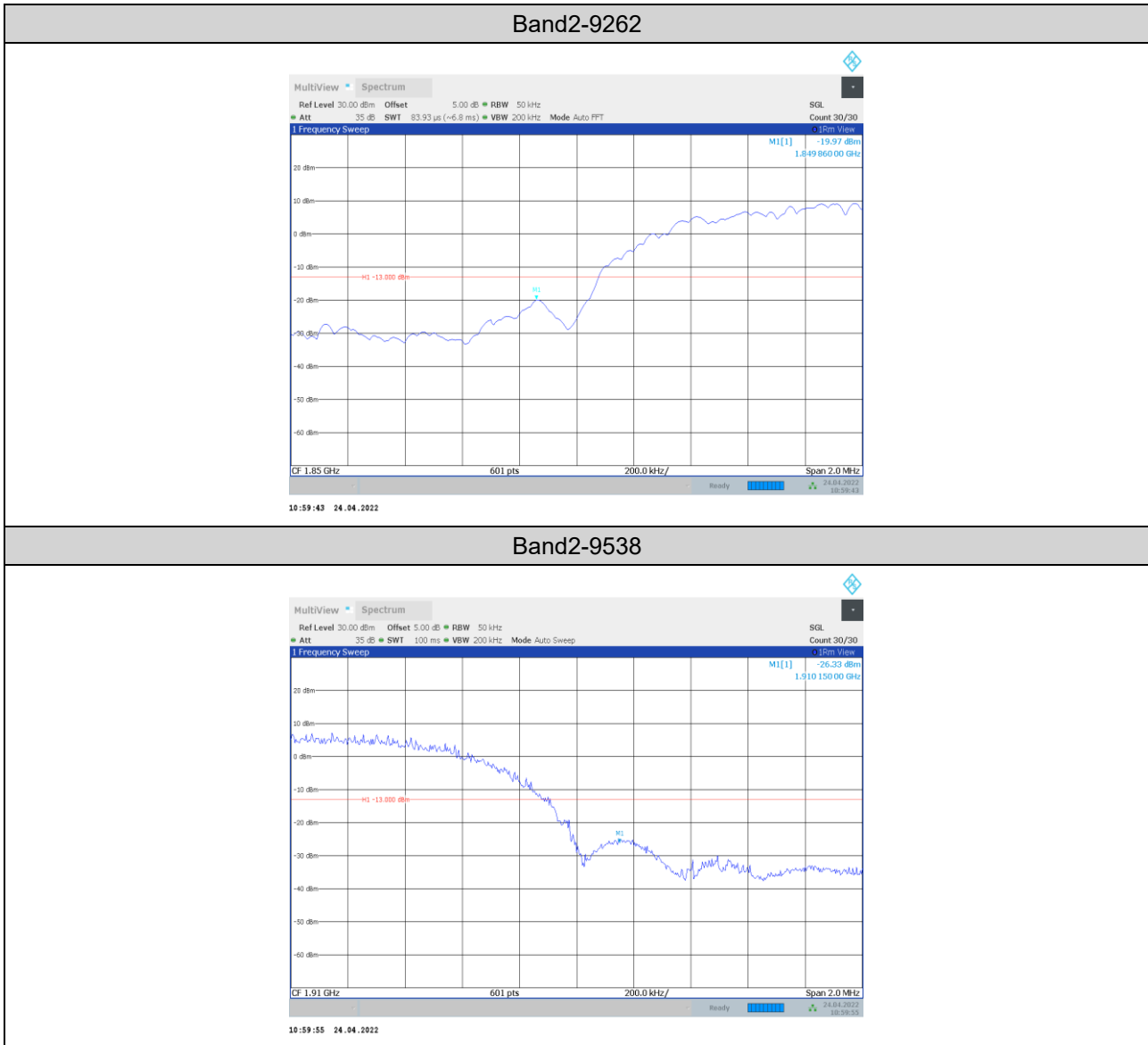
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## Band Edge

### Test Graphs

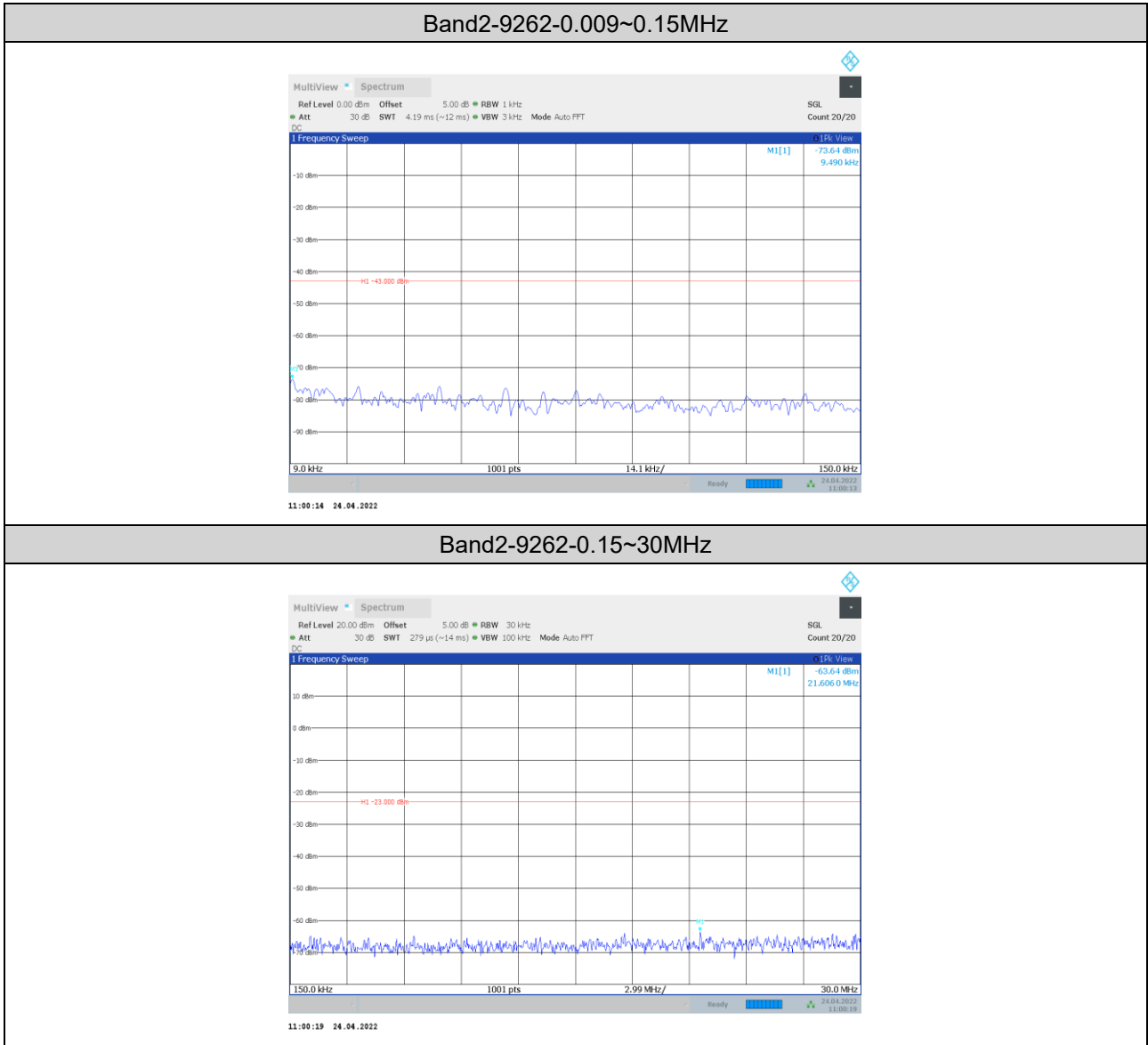


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## Conducted Spurious Emission

### Test Graphs

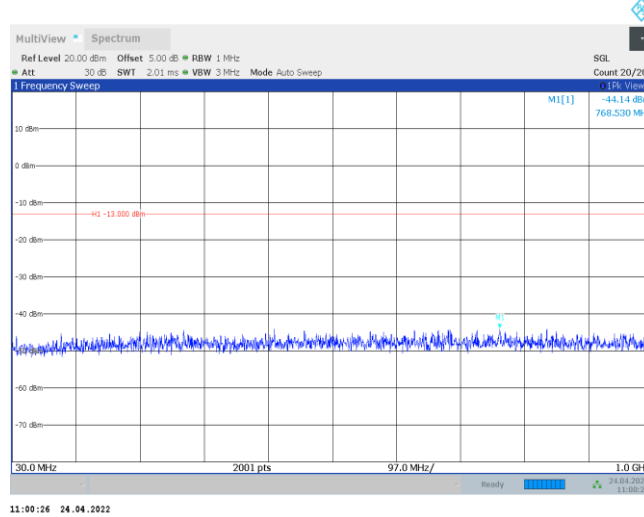


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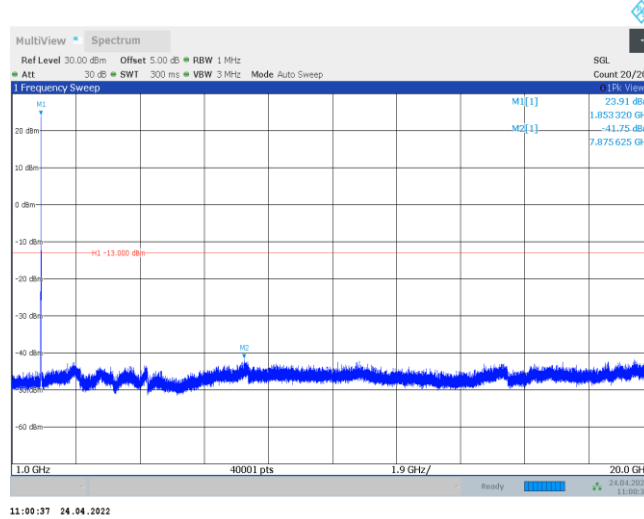
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Band2-9262-30~1000MHz



Band2-9262-1000~20000MHz

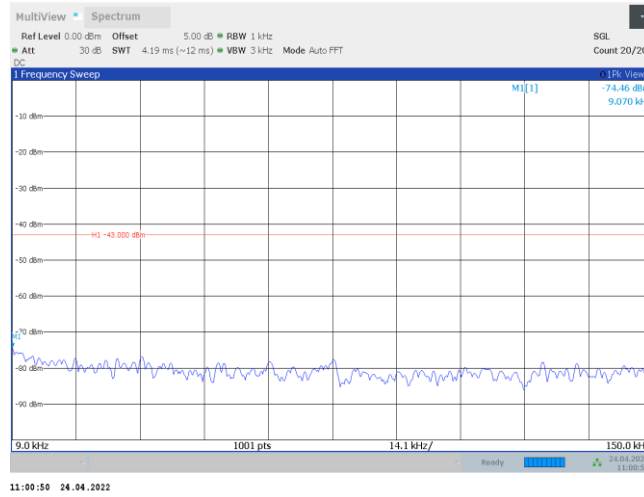


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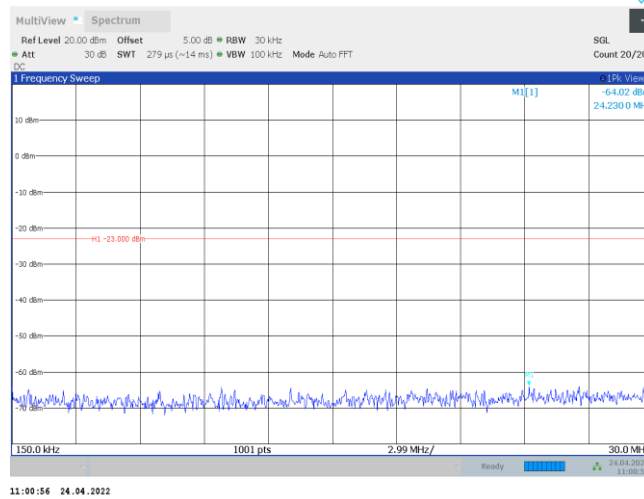
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Band2-9400-0.009~0.15MHz



Band2-9400-0.15~30MHz

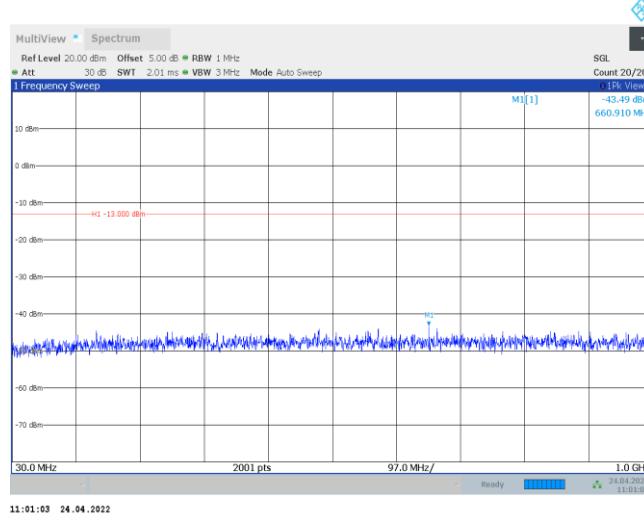


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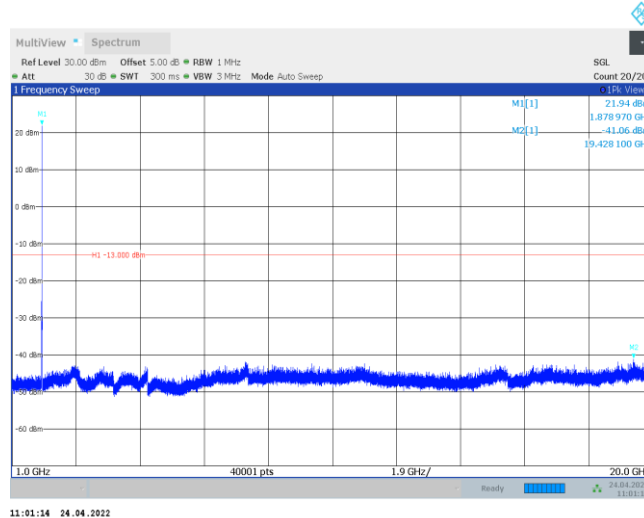
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Band2-9400-30~1000MHz



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Band2-9400-1000~20000MHz



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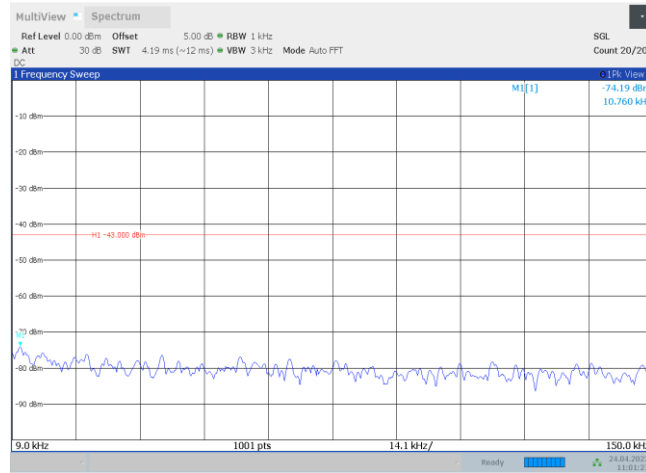
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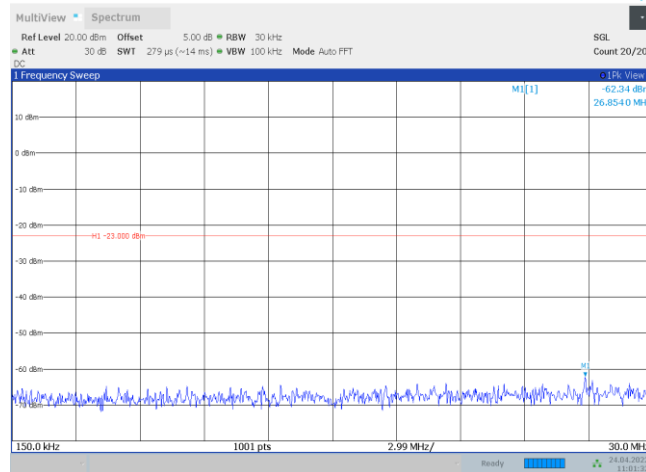
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Band2-9538-0.009~0.15MHz



11:01:27 24.04.2022

Band2-9538-0.15~30MHz

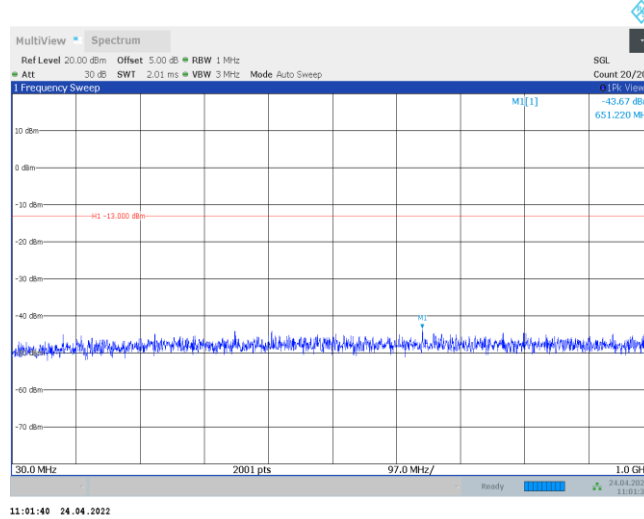


11:01:32 24.04.2022



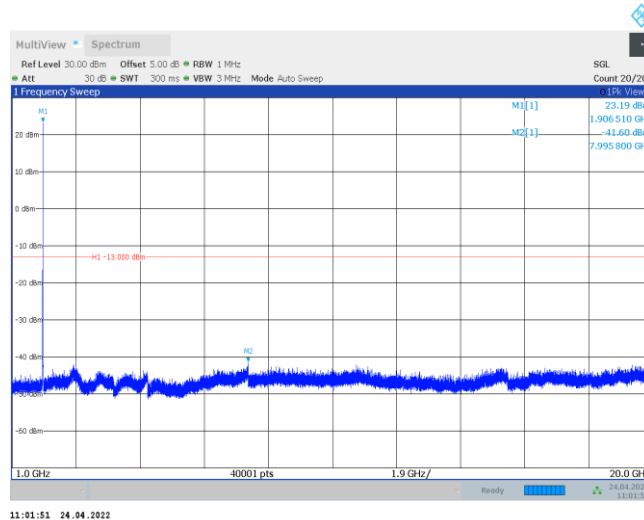
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Band2-9538-30~1000MHz



11:01:40 24.04.2022

Band2-9538-1000~20000MHz



11:01:51 24.04.2022



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## Field Strength of Spurious Radiation

Test Band = WCDMA II\_ 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	3704.8000	40.91	-45.52	29.99	-69.88	-13.00	56.88	144	25	Horizontal
2	4281	41.70	-45.58	31.27	-67.88	-13.00	54.88	152	30	Horizontal
3	5557.2000	41.35	-45.14	32.97	-66.08	-13.00	53.08	142	300	Horizontal
4	7409.6000	39.12	-43.38	36.49	-63.04	-13.00	50.04	130	4	Horizontal
5	9262.0000	35.37	-40.23	38.39	-61.73	-13.00	48.73	198	269	Horizontal
6	11114.4000	31.19	-37.88	39.09	-62.86	-13.00	49.86	146	359	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	3704.8000	40.81	-45.52	29.99	-69.98	-13.00	56.98	241	148	Vertical
2	4098.75	42.47	-45.76	30.95	-67.61	-13.00	54.61	136	74	Vertical
3	5557.2000	40.53	-45.14	32.97	-66.90	-13.00	53.90	255	165	Vertical
4	7409.6000	40.11	-43.38	36.49	-62.05	-13.00	49.05	192	269	Vertical
5	9262.0000	35.37	-40.23	38.39	-61.73	-13.00	48.73	148	351	Vertical
6	11114.4000	30.96	-37.88	39.09	-63.09	-13.00	50.09	173	329	Vertical



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Test Band = WCDMA II\_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	3760.0000	40.83	-45.75	30.19	-70.00	-13.00	57.00	211	120	Horizontal
2	4578.75	42.01	-45.68	31.69	-67.24	-13.00	54.24	136	239	Horizontal
3	5640.0000	39.50	-44.98	33.17	-67.58	-13.00	54.58	251	194	Horizontal
4	7520.0000	38.25	-43.10	36.43	-63.68	-13.00	50.68	148	360	Horizontal
5	9400.0000	34.23	-39.83	38.49	-62.37	-13.00	49.37	199	28	Horizontal
6	11280.000	32.02	-37.41	39.11	-61.54	-13.00	48.54	256	359	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	3760.0000	40.56	-45.75	30.19	-70.27	-13.00	57.27	211	329	Vertical
2	4455	42.01	-45.76	31.57	-67.44	-13.00	54.44	142	360	Vertical
3	5640.0000	39.94	-44.98	33.17	-67.14	-13.00	54.14	136	176	Vertical
4	7520.0000	38.90	-43.10	36.43	-63.03	-13.00	50.03	258	12	Vertical
5	9400.0000	34.62	-39.83	38.49	-61.98	-13.00	48.98	196	130	Vertical
6	11280.000	31.68	-37.41	39.11	-61.88	-13.00	48.88	184	252	Vertical



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**Test Band = WCDMA II\_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	3815.2000	40.83	-45.97	30.37	-70.04	-13.00	57.04	256	29	Horizontal
2	4920.75	42.52	-45.55	32.66	-65.63	-13.00	52.63	236	359	Horizontal
3	5722.8000	39.95	-44.83	33.47	-66.67	-13.00	53.67	145	240	Horizontal
4	7630.0000	38.27	-42.99	36.45	-63.53	-13.00	50.53	290	29	Horizontal
5	9538.0000	34.43	-40.01	38.46	-62.39	-13.00	49.39	155	29	Horizontal
6	11445.600	31.60	-37.34	39.06	-61.94	-13.00	48.94	180	59	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	3815.2000	40.74	-45.97	30.37	-70.13	-13.00	57.13	222	267	Vertical
2	4936.5	42.36	-45.57	32.70	-65.77	-13.00	52.77	146	104	Vertical
3	5722.8000	39.93	-44.83	33.47	-66.69	-13.00	53.69	251	14	Vertical
4	7630.0000	38.63	-42.99	36.45	-63.17	-13.00	50.17	185	192	Vertical
5	9538.0000	33.64	-40.01	38.46	-63.18	-13.00	50.18	136	252	Vertical
6	11445.600	31.25	-37.34	39.06	-62.29	-13.00	49.29	266	29	Vertical



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## Frequency Stability

### Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9400	VL	NT	7.29	0.003878	PASS
Band2	9400	VN	NT	7.48	0.003979	PASS
Band2	9400	VH	NT	7.06	0.003755	PASS
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9400	NV	-30	6.48	0.003447	PASS
Band2	9400	NV	-20	6.91	0.003676	PASS
Band2	9400	NV	0	7.12	0.003787	PASS
Band2	9400	NV	10	6.86	0.003649	PASS
Band2	9400	NV	20	6.05	0.003218	PASS
Band2	9400	NV	30	6.81	0.003622	PASS
Band2	9400	NV	40	6.72	0.003574	PASS
Band2	9400	NV	50	7.00	0.003723	PASS

The End



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