

Report No.: SEWA2211000082RG01

Rev.: 01

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Appendix B.2

WCDMA Band V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	22.95	23.36	38.45	PASS
Band V	4182	23.11	23.52	38.45	PASS
Band V	4233	23.04	23.45	38.45	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band V	4132	3	13	PASS
Band V	4182	2.94	13	PASS
Band V	4233	2.9	13	PASS



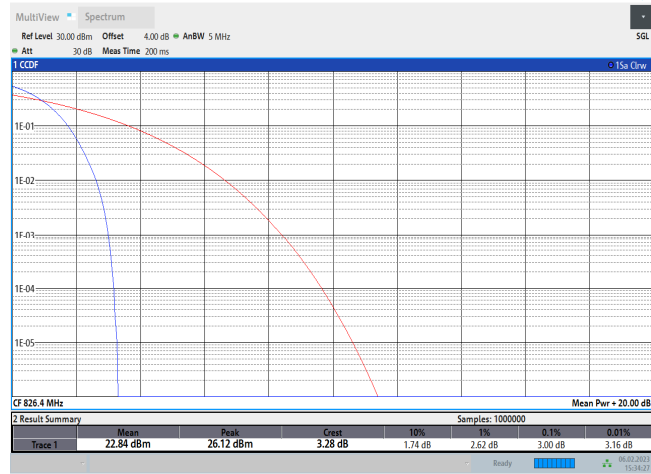
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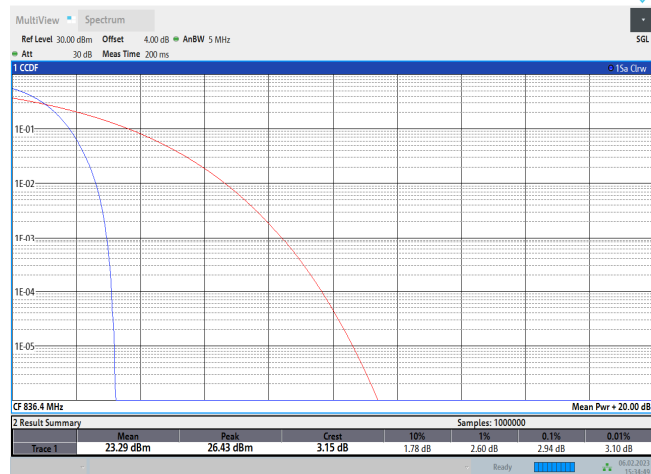
Test Graphs

Band V-4132



15:34:27 06.02.2023

Band V-4182



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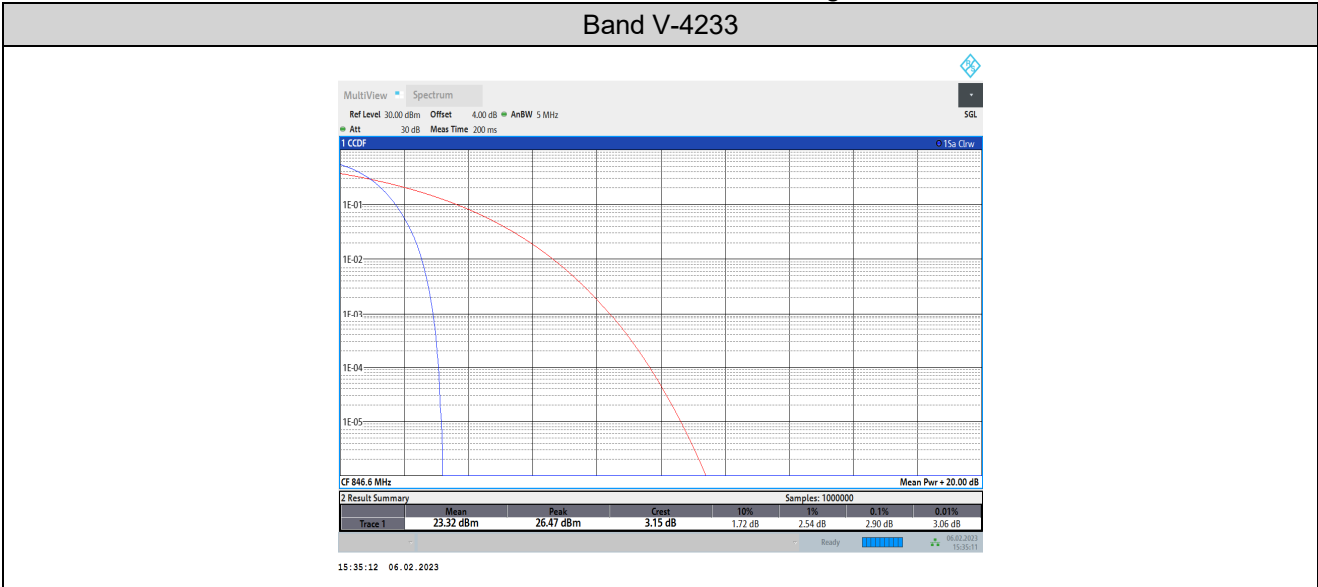
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Band V-4233



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
Band V	4132	4.143	4.73	---	PASS
Band V	4182	4.145	4.72	---	PASS
Band V	4233	4.138	4.73	---	PASS

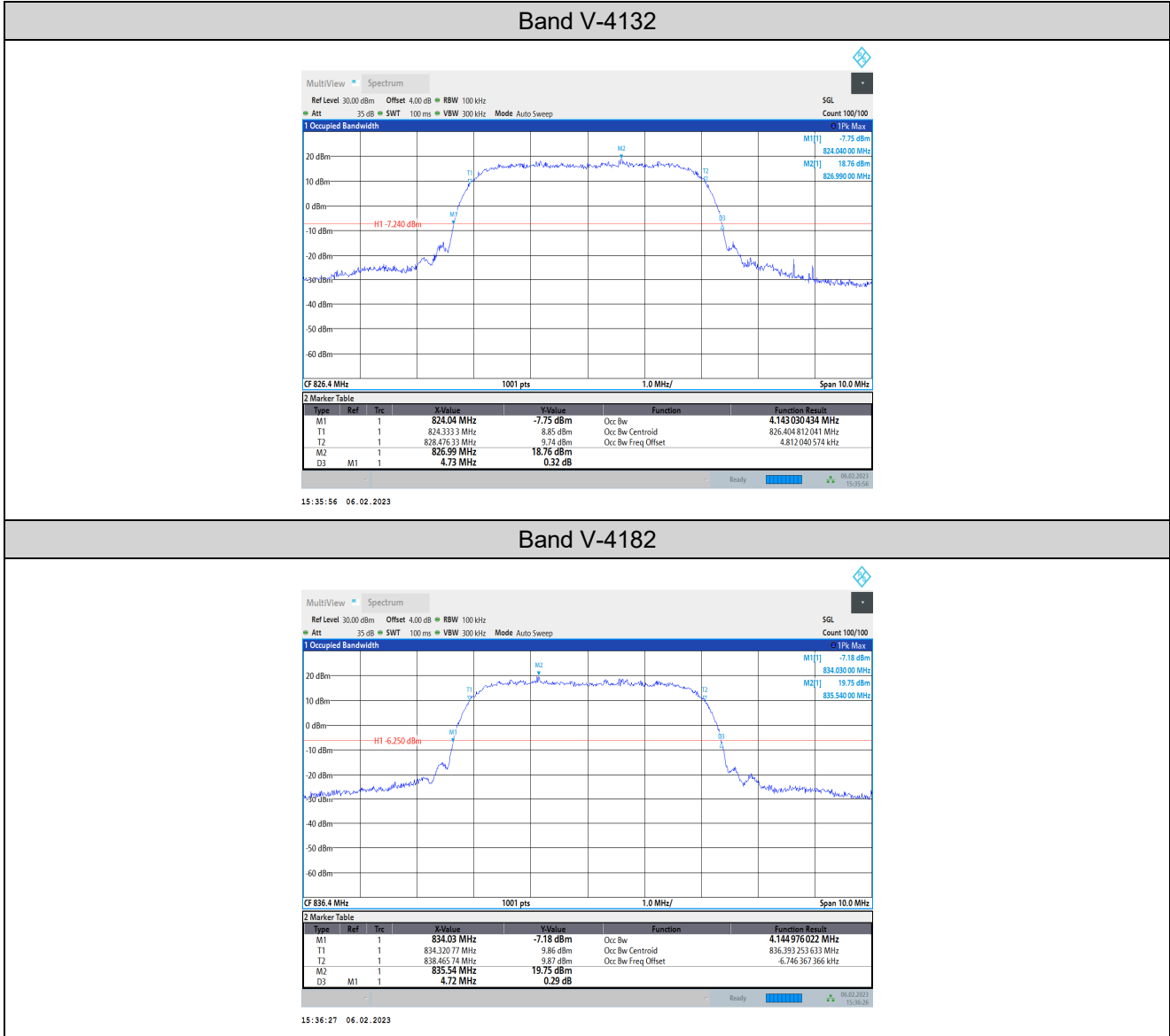


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Test Graphs



Band V-4182

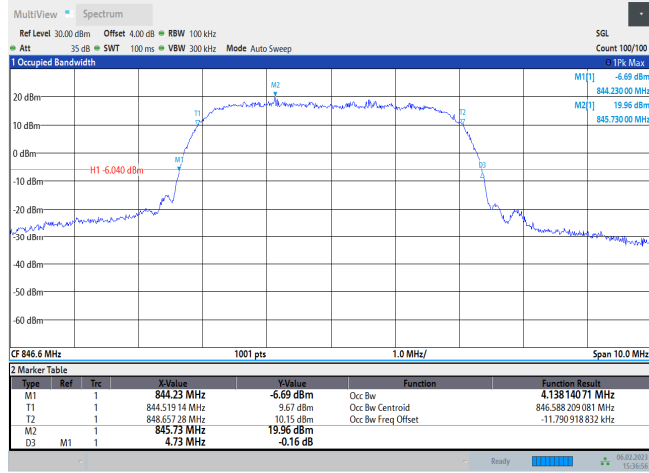


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Band V-4233



15:36:57 06.02.2023



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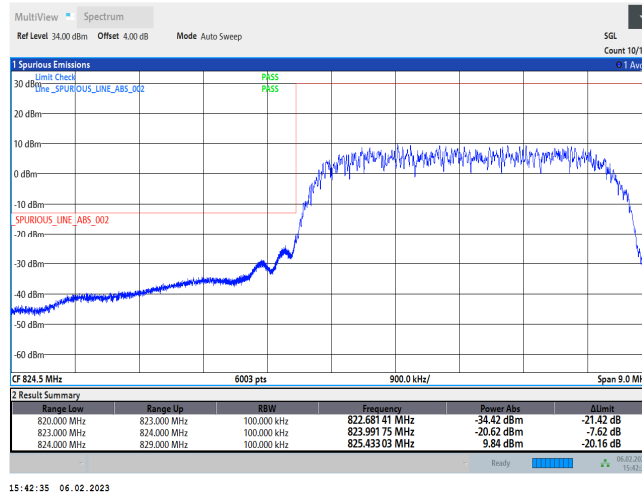
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Band Edge

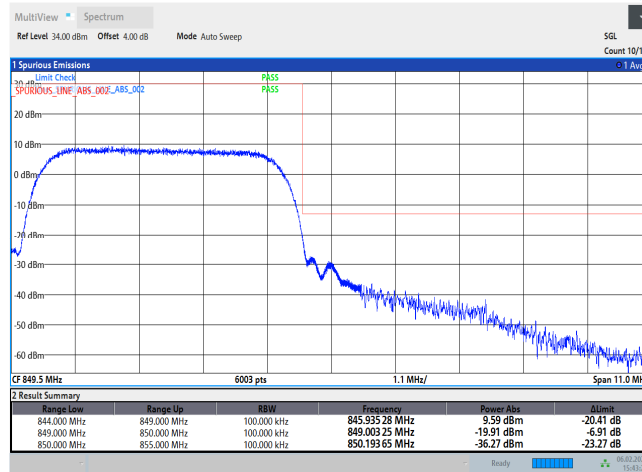
Test Graphs

Band V-4132



15:42:35 06.02.2023

Band V-4233



15:43:23 06.02.2023



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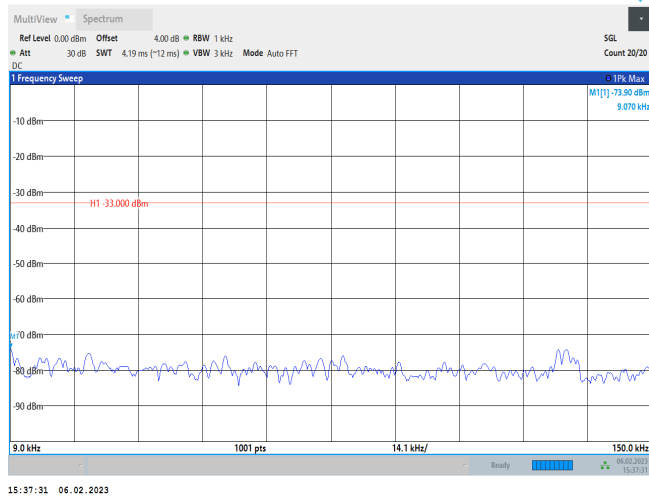
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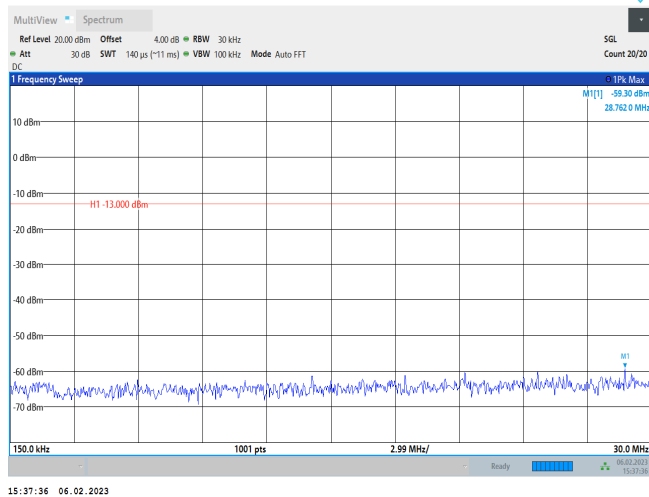
Conducted Spurious Emission

Test Graphs

Band V-4132-0.009~0.15MHz



Band V-4132-0.15~30MHz

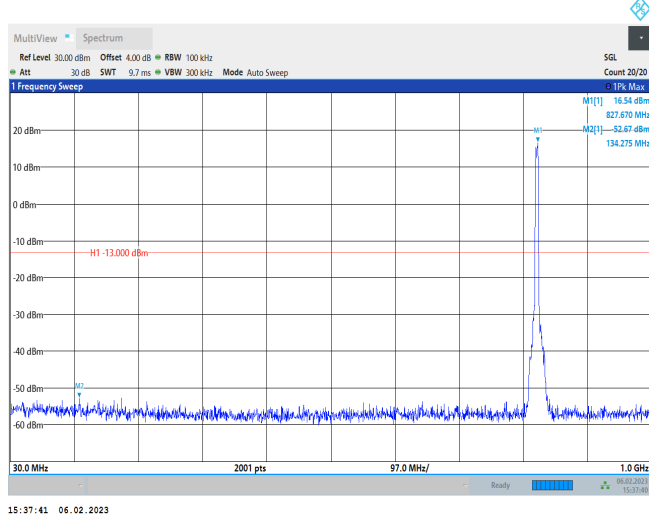


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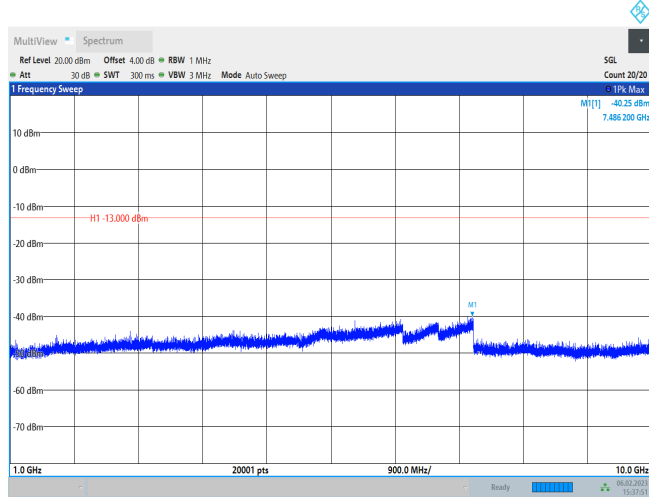
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Band V-4132-30~1000MHz



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Band V-4132-1000~10000MHz



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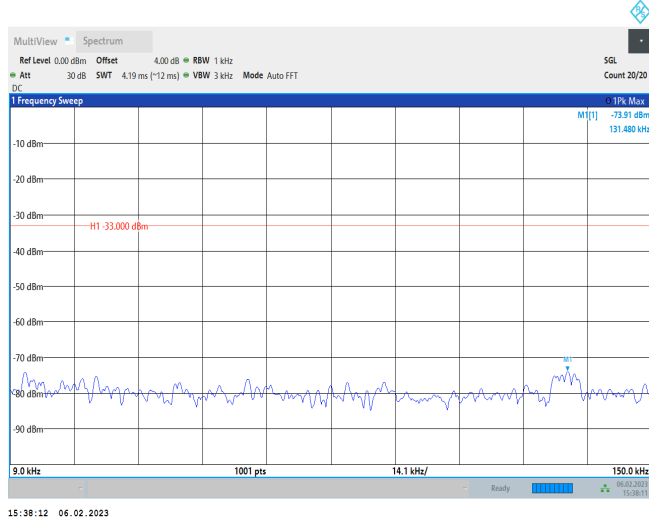


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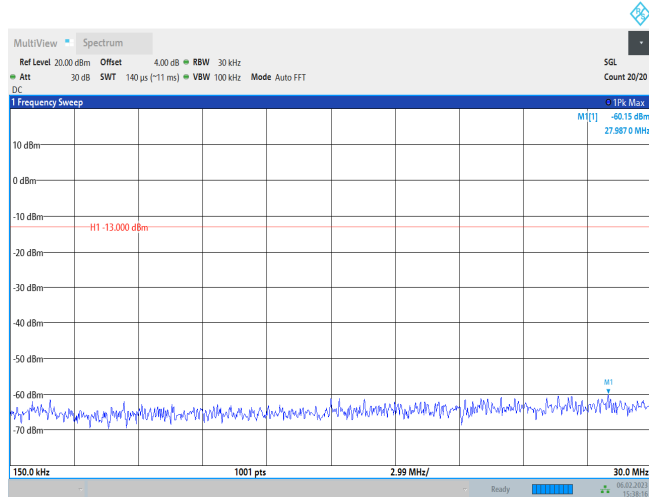
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Band V-4182-0.009~0.15MHz



15:38:12 06.02.2023

Band V-4182-0.15~30MHz



15:38:16 06.02.2023

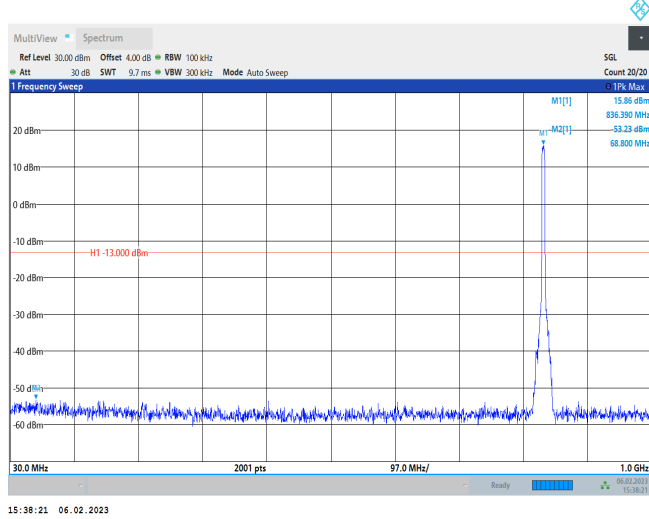


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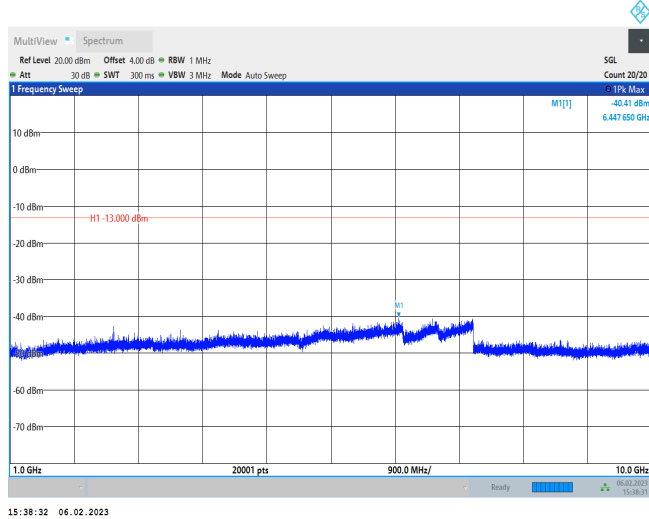
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Band V-4182-30~1000MHz



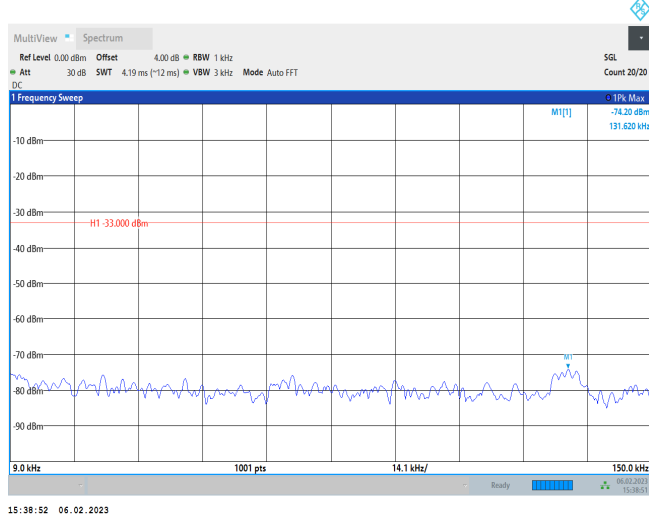
Band V-4182-1000~10000MHz



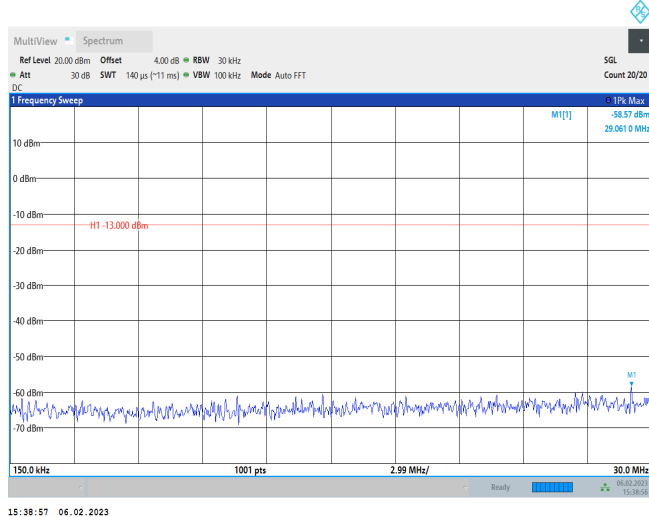
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Band V-4233-0.009~0.15MHz



Band V-4233-0.15~30MHz

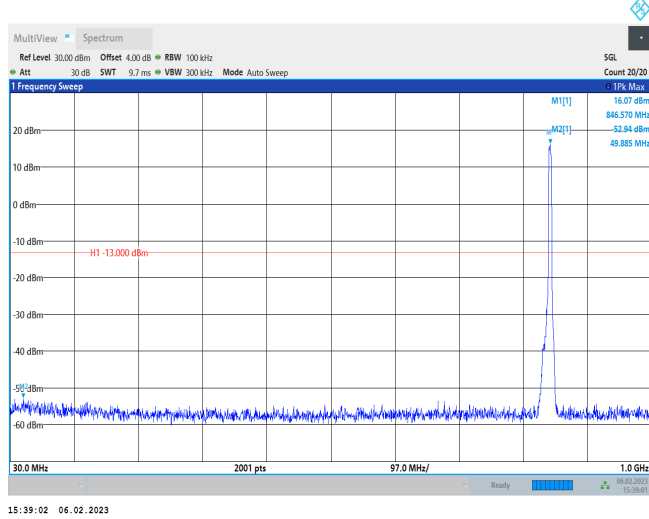


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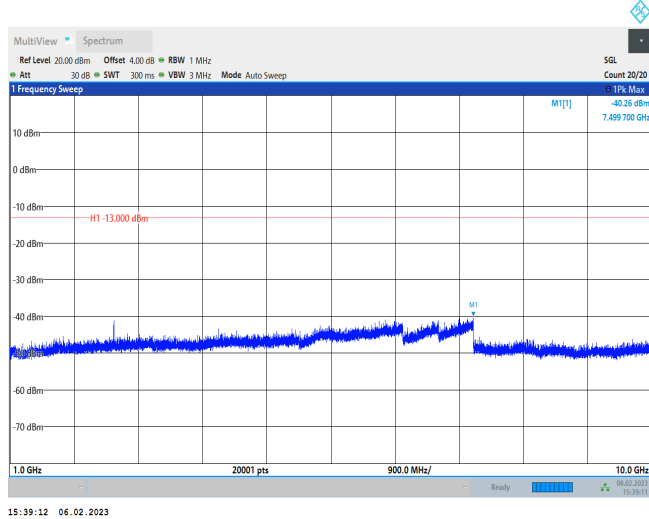
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Band V-4233-30~1000MHz



Band V-4233-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ 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	1652.8	44.44	-48.37	25.57	-73.62	-13.00	60.62	143	77	Horizontal
2	2479.2	43.91	-46.91	27.86	-70.40	-13.00	57.40	265	0	Horizontal
3	3305.6	43.25	-46.12	29.48	-68.65	-13.00	55.65	284	356	Horizontal
4	4132	42.43	-45.31	30.81	-67.33	-13.00	54.33	142	172	Horizontal
5	4958.4	42.19	-45.07	32.50	-65.64	-13.00	52.64	263	46	Horizontal
6	5784.8	41.67	-43.52	33.51	-63.60	-13.00	50.60	224	93	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	1652.8	44.33	-48.37	25.57	-73.73	-13.00	60.73	296	360	Vertical
2	2479.2	43.27	-46.91	27.86	-71.04	-13.00	58.04	265	360	Vertical
3	3305.6	42.96	-46.12	29.48	-68.94	-13.00	55.94	241	234	Vertical
4	4132	42.12	-45.31	30.81	-67.64	-13.00	54.64	142	186	Vertical
5	4958.4	41.96	-45.07	32.50	-65.87	-13.00	52.87	263	31	Vertical
6	5784.8	41.83	-43.52	33.51	-63.44	-13.00	50.44	225	359	Vertical



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Test Band = WCDMA Band V_ 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	1672.8	44.30	-48.32	25.56	-73.71	-13.00	60.71	241	8	Horizontal
2	2509.2	43.36	-46.79	27.93	-70.75	-13.00	57.75	142	284	Horizontal
3	3345.6	43.86	-46.19	29.46	-68.13	-13.00	55.13	263	3	Horizontal
4	4182	41.51	-45.16	30.89	-68.02	-13.00	55.02	254	252	Horizontal
5	5018.4	42.87	-44.93	32.60	-64.72	-13.00	51.72	185	0	Horizontal
6	5854.8	42.04	-43.34	33.74	-62.82	-13.00	49.82	296	158	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	1672.8	44.53	-48.32	25.56	-73.48	-13.00	60.48	185	248	Vertical
2	2509.2	43.81	-46.79	27.93	-70.30	-13.00	57.30	265	94	Vertical
3	3345.6	43.10	-46.19	29.46	-68.89	-13.00	55.89	241	248	Vertical
4	4182	41.92	-45.16	30.89	-67.61	-13.00	54.61	142	360	Vertical
5	5018.4	42.92	-44.93	32.60	-64.67	-13.00	51.67	263	217	Vertical
6	5854.8	41.92	-43.34	33.74	-62.94	-13.00	49.94	228	360	Vertical



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Test Band = WCDMA Band V_ 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	1693.2	44.53	-48.26	25.55	-73.44	-13.00	60.44	263	1	Horizontal
2	2539.8	43.74	-46.94	28.04	-70.42	-13.00	57.42	265	111	Horizontal
3	3386.4	43.47	-46.26	29.45	-68.60	-13.00	55.60	284	0	Horizontal
4	4233	41.37	-45.11	30.97	-68.03	-13.00	55.03	142	64	Horizontal
5	5079.6	42.01	-44.67	32.60	-65.32	-13.00	52.32	255	173	Horizontal
6	5926.2	42.29	-43.29	33.96	-62.30	-13.00	49.30	286	0	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	1693.2	44.64	-48.26	25.55	-73.33	-13.00	60.33	185	327	Vertical
2	2539.8	44.07	-46.94	28.04	-70.09	-13.00	57.09	265	296	Vertical
3	3386.4	43.54	-46.26	29.45	-68.53	-13.00	55.53	241	327	Vertical
4	4233	41.91	-45.11	30.97	-67.49	-13.00	54.49	142	360	Vertical
5	5079.6	42.61	-44.67	32.60	-64.72	-13.00	51.72	263	249	Vertical
6	5926.2	42.00	-43.29	33.96	-62.59	-13.00	49.59	322	296	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

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-3.71	-0.004436	±2.5	PASS
Band V	4182	VN	NT	-1.96	-0.002343	±2.5	PASS
Band V	4182	VH	NT	-4.56	-0.005452	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-4.18	-0.004998	±2.5	PASS
Band V	4182	NV	-20	-3.57	-0.004268	±2.5	PASS
Band V	4182	NV	-10	-2.65	-0.002653	±2.5	PASS
Band V	4182	NV	0	-2.78	-0.003324	±2.5	PASS
Band V	4182	NV	10	-2.27	-0.002714	±2.5	PASS
Band V	4182	NV	20	-1.82	-0.002176	±2.5	PASS
Band V	4182	NV	30	-1.41	-0.001686	±2.5	PASS
Band V	4182	NV	40	-1.46	-0.001746	±2.5	PASS
Band V	4182	NV	50	-0.94	-0.001124	±2.5	PASS

---End of Attachment---



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