

Report No.: SEWM2206000086RG01

Rev.: 01

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# Appendix B.1

## WCDMA Band V



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	23.89	21.21	38.45	PASS
Band5	4182	24.07	21.39	38.45	PASS
Band5	4233	24	21.32	38.45	PASS



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## Peak-to-Average Ratio

### Test Result

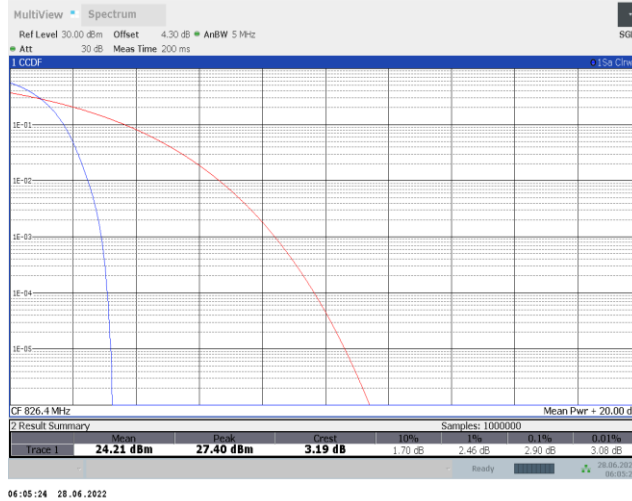
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	2.9	13	PASS
Band5	4182	3.06	13	PASS
Band5	4233	2.7	13	PASS



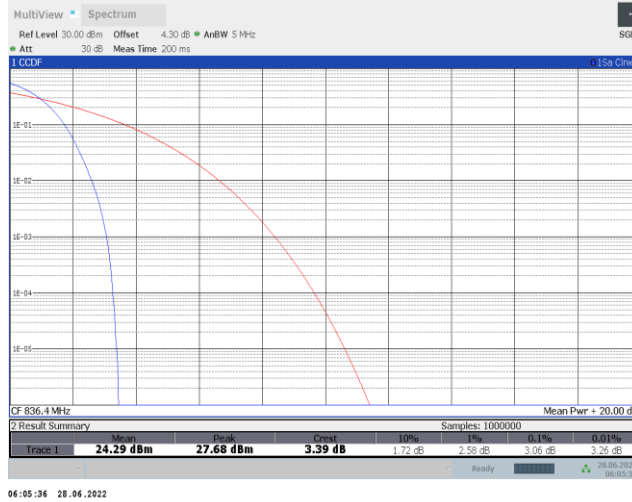
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Test Graphs

Band5-4132



Band5-4182

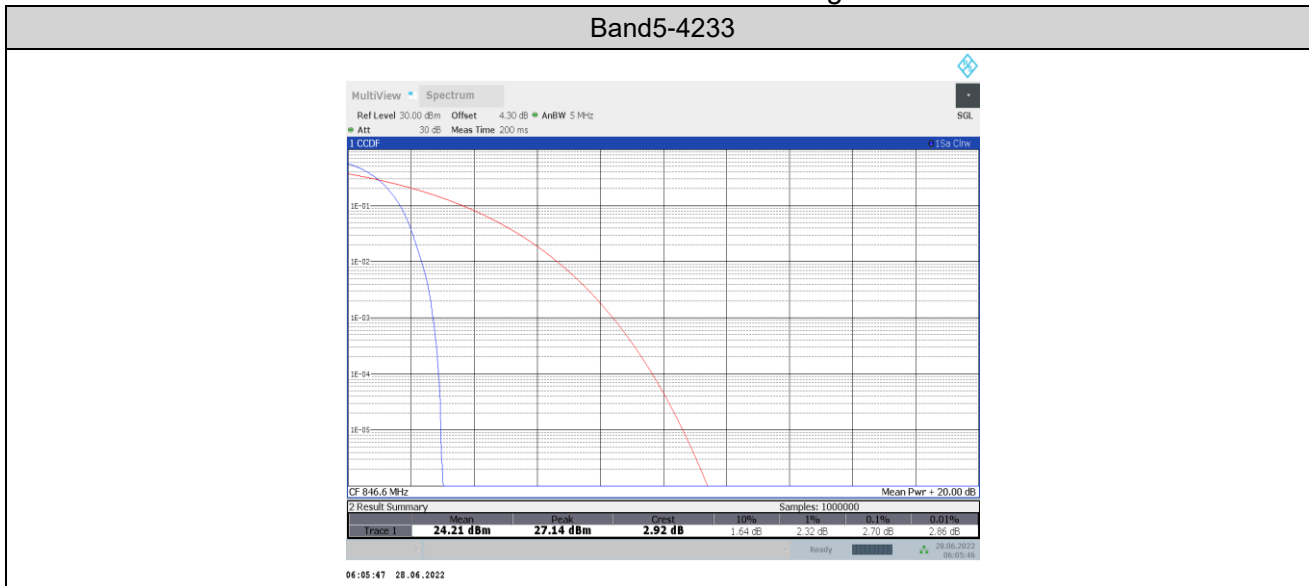


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Band5-4233



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## Modulation Characteristics

### Test Result

Band	Channel	Result	Verdict
Band5	4182	PASS	PASS



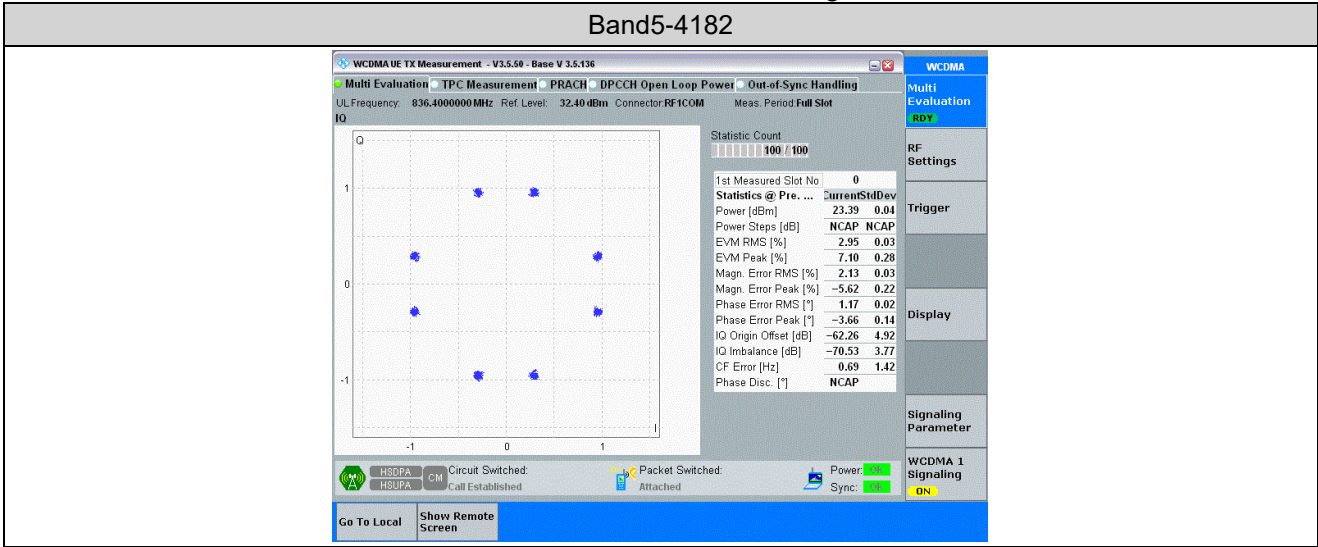
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Band5-4182



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band5	4132	4.166	4.73	---	PASS
Band5	4182	4.139	4.73	---	PASS
Band5	4233	4.15	4.75	---	PASS



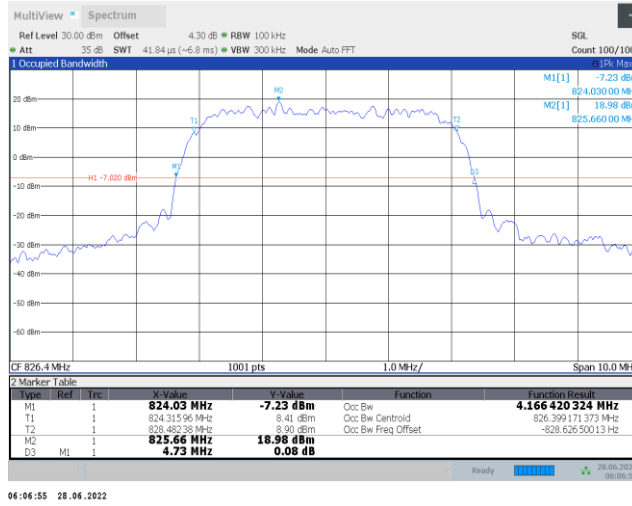
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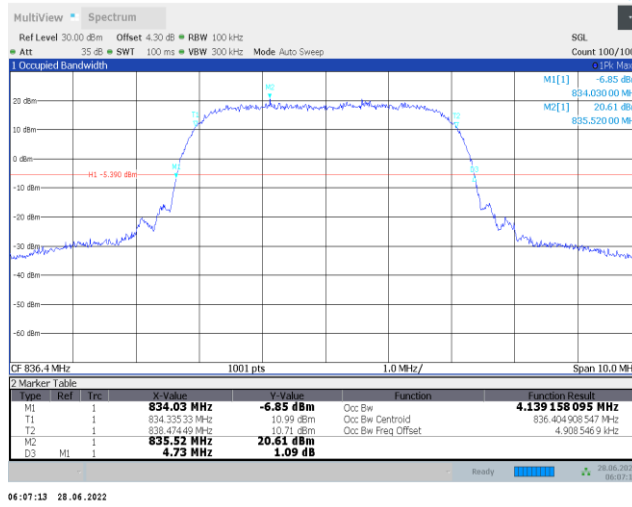


Test Graphs

Band5-4132



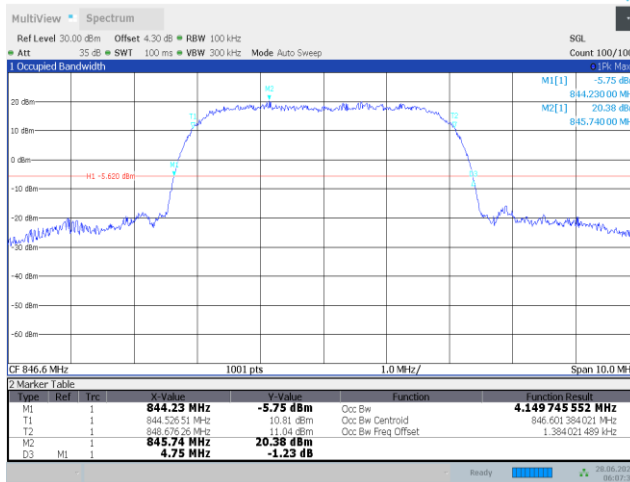
Band5-4182



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Band5-4233



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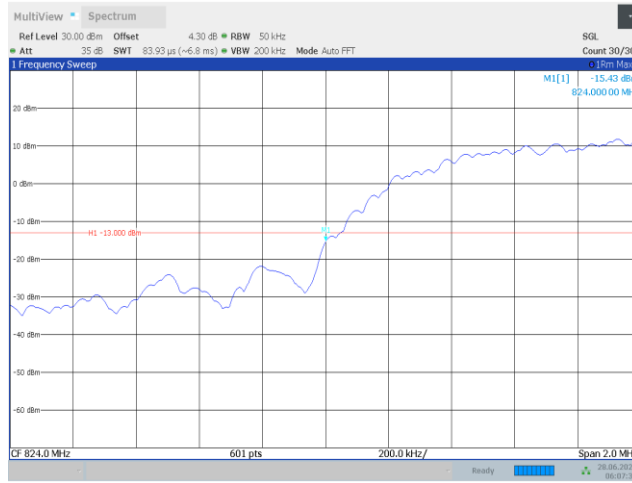


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## Band Edge

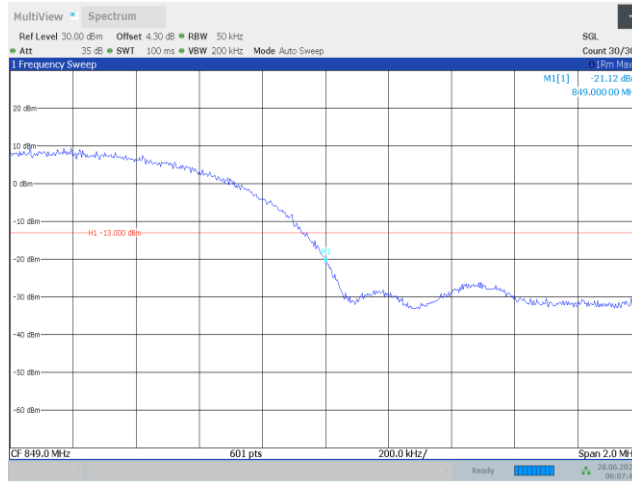
### Test Graphs

Band5-4132



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Band5-4233



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## Conducted Spurious Emission

### Test Graphs



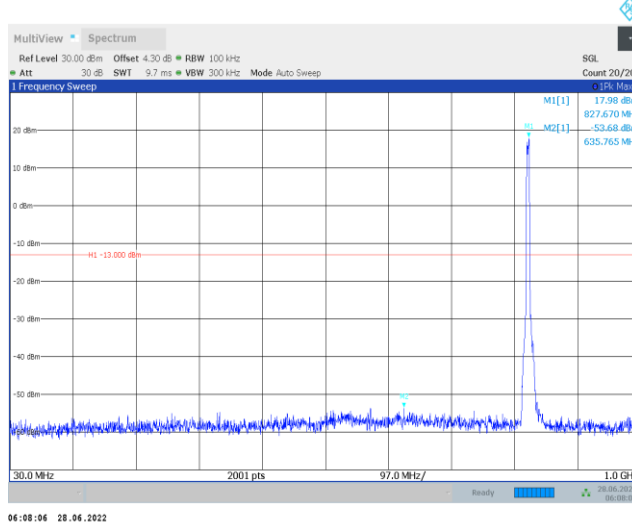
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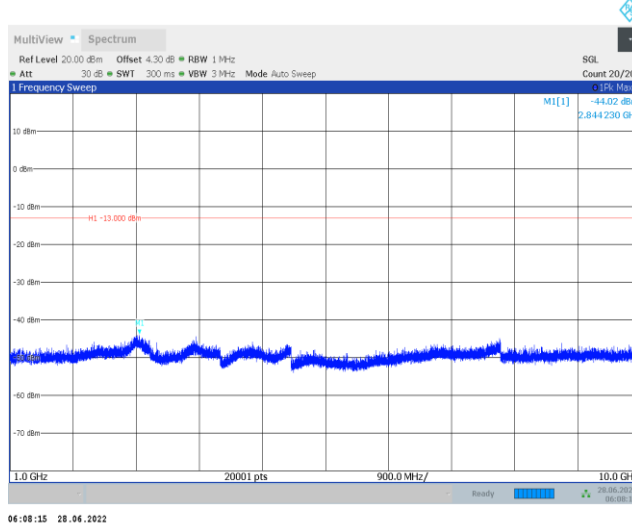
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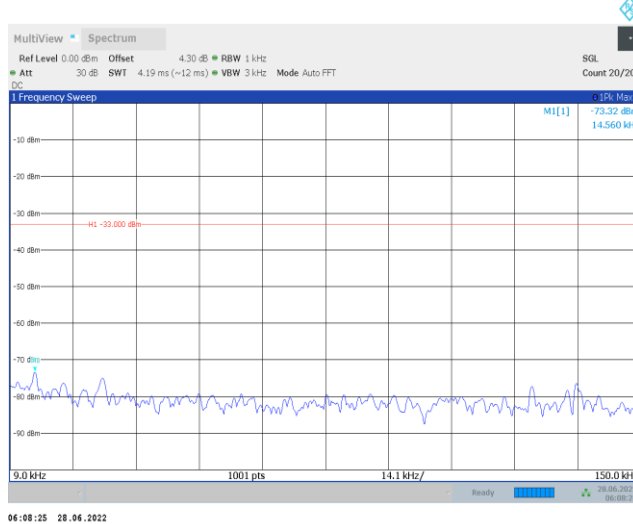
Band5-4132-30~1000MHz



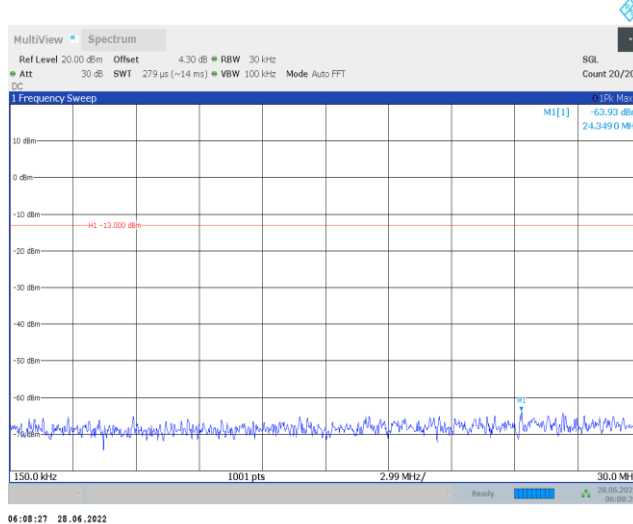
Band5-4132-1000~10000MHz



Band5-4182-0.009~0.15MHz



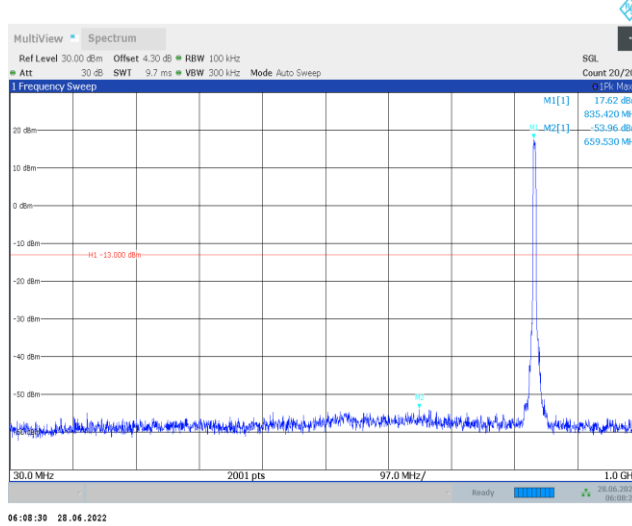
Band5-4182-0.15~30MHz



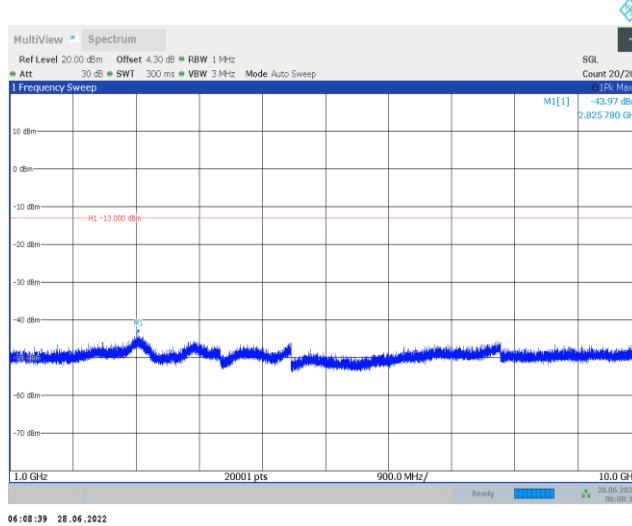
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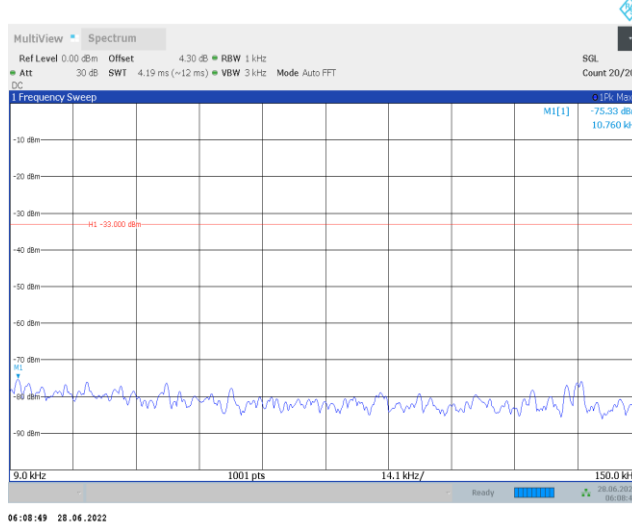
Band5-4182-30~1000MHz



Band5-4182-1000~10000MHz

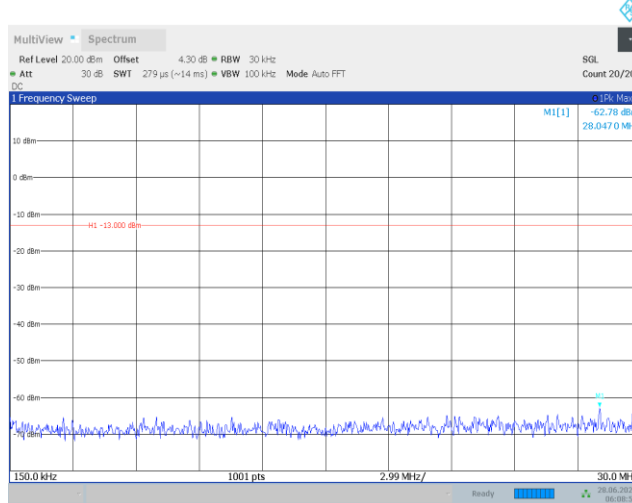


Band5-4233-0.009~0.15MHz



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Band5-4233-0.15~30MHz



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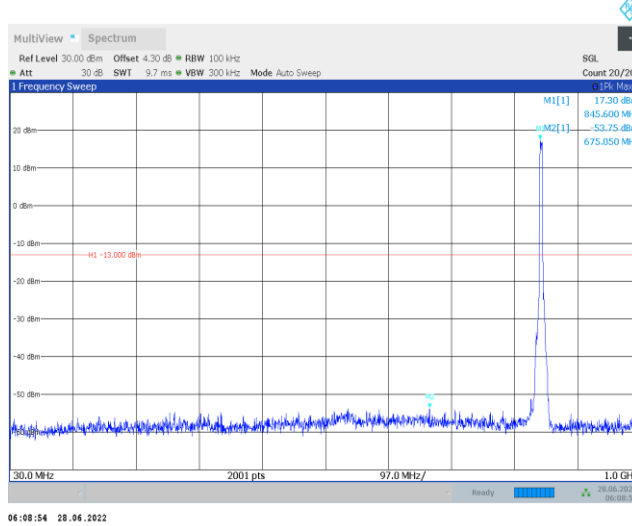
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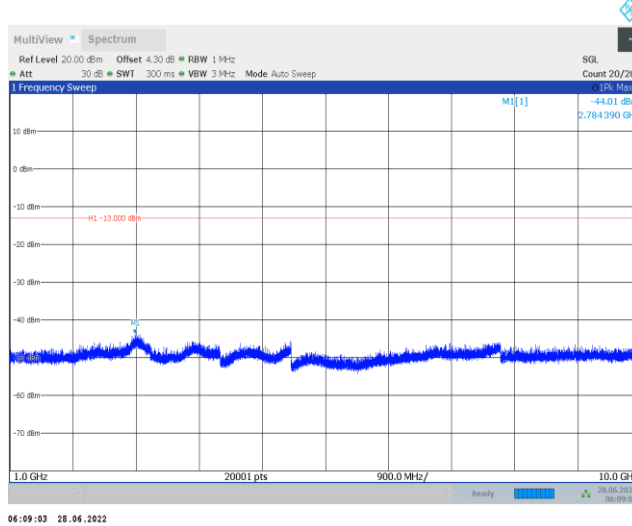
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Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz



## Field Strength of Spurious Radiation

For Sample #1

Test Band = WCDMA Band V\_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.2857	57.86	-48.21	25.37	-60.24	-13.00	47.24	285	129	Horizontal
2	2481.7143	75.50	-47.30	27.71	-39.35	-13.00	26.35	255	195	Horizontal
3	3309.1429	54.87	-46.67	29.54	-57.51	-13.00	44.51	265	195	Horizontal
4	4132.0000	49.09	-45.92	31.00	-61.09	-13.00	48.09	185	122	Horizontal
5	4958.4000	49.40	-45.72	32.76	-58.81	-13.00	45.81	169	308	Horizontal
6	5178.8571	51.52	-45.07	32.98	-55.83	-13.00	42.83	125	360	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	1654.8571	57.07	-48.21	25.37	-61.03	-13.00	48.03	255	66	Vertical
2	2482.8571	75.73	-47.30	27.71	-39.12	-13.00	26.12	265	151	Vertical
3	3308.5714	53.42	-46.67	29.54	-58.96	-13.00	45.96	141	164	Vertical
4	4132.0000	50.65	-45.92	31.00	-59.53	-13.00	46.53	155	344	Vertical
5	4958.4000	50.58	-45.72	32.76	-57.63	-13.00	44.63	120	79	Vertical
6	7392	50.25	-43.28	36.49	-51.79	-13.00	38.79	236	92	Vertical



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Test Band = WCDMA Band V\_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1671.4286	63.28	-48.19	25.38	-54.80	-13.00	41.80	285	242	Horizontal
2	2505.7143	77.60	-47.25	27.79	-37.12	-13.00	24.12	244	129	Horizontal
3	3345.6000	52.60	-46.62	29.50	-59.78	-13.00	46.78	147	122	Horizontal
4	4175.4286	52.77	-45.95	31.06	-57.37	-13.00	44.37	296	202	Horizontal
5	5018.4000	48.57	-45.73	32.89	-59.53	-13.00	46.53	174	16	Horizontal
6	5480	50.80	-45.11	32.89	-56.68	-13.00	43.68	123	236	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	1670.2857	62.15	-48.20	25.38	-55.93	-13.00	42.93	285	166	Vertical
2	2506.8571	75.79	-47.25	27.79	-38.92	-13.00	25.92	244	173	Vertical
3	3349.7143	54.84	-46.61	29.49	-57.54	-13.00	44.54	185	179	Vertical
4	4182.0000	49.14	-45.95	31.07	-61.00	-13.00	48.00	180	193	Vertical
5	5018.4000	48.57	-45.73	32.89	-59.53	-13.00	46.53	265	67	Vertical
6	6478.8571	51.64	-44.67	34.94	-53.35	-13.00	40.35	147	284	Vertical



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**Test Band = WCDMA Band V\_ TM1**  
**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1269.1429	54.12	-48.27	25.60	-63.81	-13.00	50.81	255	51	Horizontal
2	1695.4286	61.62	-48.17	25.39	-56.42	-13.00	43.42	241	157	Horizontal
3	2539.8000	73.67	-47.13	27.90	-40.82	-13.00	27.82	144	124	Horizontal
4	3386.4000	50.96	-46.56	29.45	-61.41	-13.00	48.41	135	309	Horizontal
5	4236	53.24	-45.90	31.17	-56.74	-13.00	43.74	150	237	Horizontal
6	5079.6000	48.18	-45.47	32.92	-59.62	-13.00	46.62	225	203	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	1274.8571	54.18	-48.24	25.60	-63.72	-13.00	50.72	255	105	Vertical
2	1690.8571	58.03	-48.17	25.39	-60.01	-13.00	47.01	241	46	Vertical
3	2540	73.20	-47.13	27.90	-41.29	-13.00	28.29	150	72	Vertical
4	3386.4000	51.41	-46.56	29.45	-60.96	-13.00	47.96	247	205	Vertical
5	4233.0000	49.18	-45.90	31.17	-60.81	-13.00	47.81	253	78	Vertical
6	5079.6000	48.57	-45.47	32.92	-59.23	-13.00	46.23	178	132	Vertical



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**For Sample #2**

**Test Band = WCDMA Band V\_ TM1**

**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8000	52.94	-48.22	25.37	-65.16	-13.00	52.16	143	239	Horizontal
2	2479.2000	50.84	-47.31	27.70	-64.02	-13.00	51.02	266	351	Horizontal
3	3305.6000	50.23	-46.67	29.55	-62.15	-13.00	49.15	251	67	Horizontal
4	4132.0000	50.98	-45.92	31.00	-59.20	-13.00	46.20	185	173	Horizontal
5	4958.4000	50.91	-45.72	32.76	-57.30	-13.00	44.30	146	360	Horizontal
6	6922.2857	51.98	-44.04	35.99	-51.33	-13.00	38.33	236	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	1652.8000	52.31	-48.22	25.37	-65.79	-13.00	52.79	135	95	Vertical
2	2479.2000	50.89	-47.31	27.70	-63.97	-13.00	50.97	254	0	Vertical
3	3305.6000	50.49	-46.67	29.55	-61.89	-13.00	48.89	162	356	Vertical
4	4132.0000	49.38	-45.92	31.00	-60.80	-13.00	47.80	199	41	Vertical
5	4958.4000	49.95	-45.72	32.76	-58.26	-13.00	45.26	175	309	Vertical
6	7013.1429	50.87	-43.66	36.11	-51.93	-13.00	38.93	102	1	Vertical



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Test Band = WCDMA Band V\_ TM1  
 Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	53.80	-48.19	25.38	-64.27	-13.00	51.27	211	292	Horizontal
2	2509.2000	51.33	-47.24	27.80	-63.36	-13.00	50.36	200	54	Horizontal
3	3345.6000	50.22	-46.62	29.50	-62.16	-13.00	49.16	256	352	Horizontal
4	4182.0000	49.26	-45.95	31.07	-60.88	-13.00	47.88	296	332	Horizontal
5	5018.4000	48.20	-45.73	32.89	-59.90	-13.00	46.90	234	160	Horizontal
6	6786.2857	50.98	-44.11	35.81	-52.58	-13.00	39.58	177	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	1672.8000	52.55	-48.19	25.38	-65.52	-13.00	52.52	165	125	Vertical
2	2509.2000	51.25	-47.24	27.80	-63.44	-13.00	50.44	145	215	Vertical
3	3345.6000	51.46	-46.62	29.50	-60.92	-13.00	47.92	185	23	Vertical
4	4182.0000	50.82	-45.95	31.07	-59.32	-13.00	46.32	196	227	Vertical
5	5018.4000	49.70	-45.73	32.89	-58.40	-13.00	45.40	251	54	Vertical
6	5980.5714	52.22	-44.53	34.09	-53.48	-13.00	40.48	170	242	Vertical



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**Test Band = WCDMA Band V\_ TM1**  
**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1693.2000	53.05	-48.17	25.39	-64.99	-13.00	51.99	235	118	Horizontal
2	2539.8000	51.32	-47.13	27.90	-63.17	-13.00	50.17	261	145	Horizontal
3	3386.4000	52.10	-46.56	29.45	-60.27	-13.00	47.27	147	360	Horizontal
4	4233.0000	49.32	-45.90	31.17	-60.67	-13.00	47.67	175	355	Horizontal
5	5079.6000	47.95	-45.47	32.92	-59.85	-13.00	46.85	195	170	Horizontal
6	6806.8571	51.40	-44.12	35.85	-52.14	-13.00	39.14	155	341	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	1693.2000	53.01	-48.17	25.39	-65.03	-13.00	52.03	196	240	Vertical
2	2539.8000	51.35	-47.13	27.90	-63.14	-13.00	50.14	178	41	Vertical
3	3386.4000	50.93	-46.56	29.45	-61.44	-13.00	48.44	256	334	Vertical
4	4233.0000	49.15	-45.90	31.17	-60.84	-13.00	47.84	230	21	Vertical
5	5079.6000	48.53	-45.47	32.92	-59.27	-13.00	46.27	231	254	Vertical
6	6674.2857	50.86	-44.17	35.59	-52.98	-13.00	39.98	305	295	Vertical

**Remark:**

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV -95.26



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## Frequency Stability

### Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	VL	NT	-0.31	-0.000371	±2.5	PASS
Band5	4182	VN	NT	-0.19	-0.000227	±2.5	PASS
Band5	4182	VH	NT	-0.18	-0.000215	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	NV	-30	-0.57	-0.000681	±2.5	PASS
Band5	4182	NV	-20	-0.43	-0.000514	±2.5	PASS
Band5	4182	NV	0	-0.30	-0.000359	±2.5	PASS
Band5	4182	NV	10	-0.59	-0.000705	±2.5	PASS
Band5	4182	NV	20	-0.55	-0.000658	±2.5	PASS
Band5	4182	NV	30	-0.71	-0.000849	±2.5	PASS
Band5	4182	NV	40	-0.39	-0.000466	±2.5	PASS
Band5	4182	NV	50	-0.55	-0.000658	±2.5	PASS

The End



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