



Report No.: SEWM2212000308RG01

Rev.: 02

Page: 1 of 40

Appendix B.2

WCDMA Band IV&V



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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 2 of 40

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	EIRP	Limit(dBm)	Verdict
Band4	1312	22.55	24.25	30.00	PASS
Band4	1413	22.62	24.32	30.00	PASS
Band4	1513	22.49	24.19	30.00	PASS
Band	Channel	Power(dBm)	ERP	Limit(dBm)	Verdict
Band5	4132	23.63	20.18	38.45	PASS
Band5	4182	23.44	19.99	38.45	PASS
Band5	4233	23.44	19.99	38.45	PASS



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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 3 of 40

Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.18	13	PASS
Band4	1413	3.18	13	PASS
Band4	1513	3.1	13	PASS
Band5	4132	3.1	13	PASS
Band5	4182	3.36	13	PASS
Band5	4233	3.36	13	PASS



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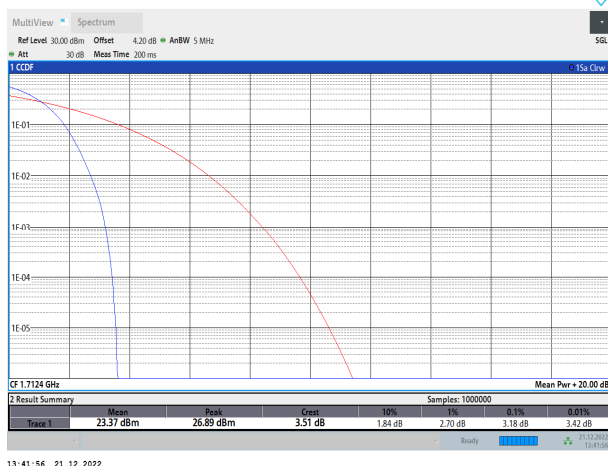
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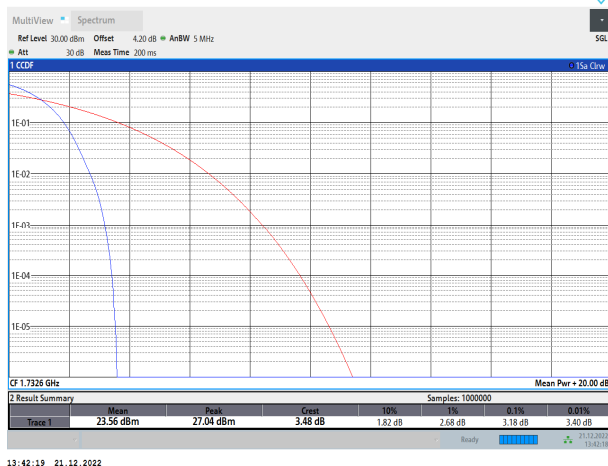
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Test Graphs

Band4-1312



Band4-1413



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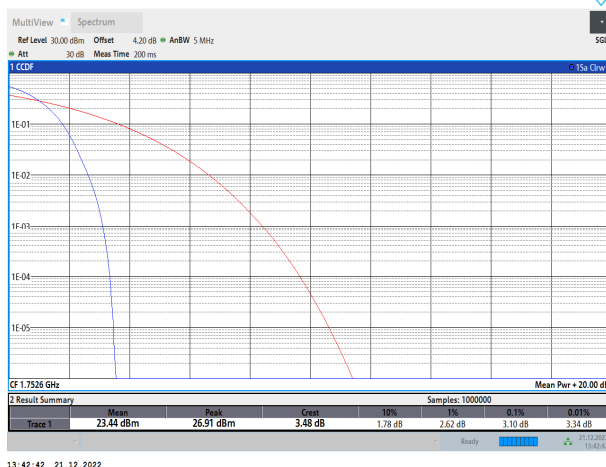
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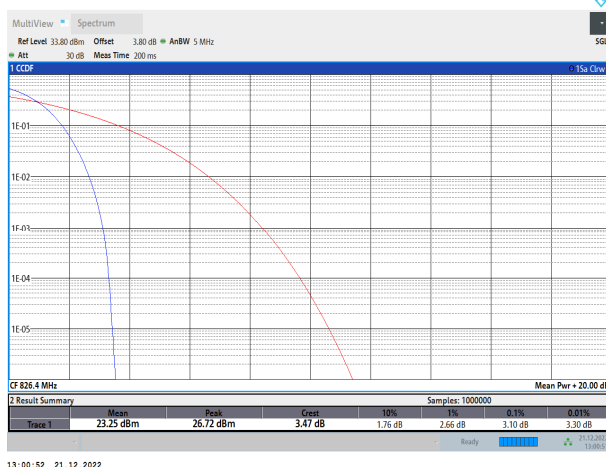
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Band4-1513



13:42:42 21.12.2022

Band5-4132



13:00:52 21.12.2022



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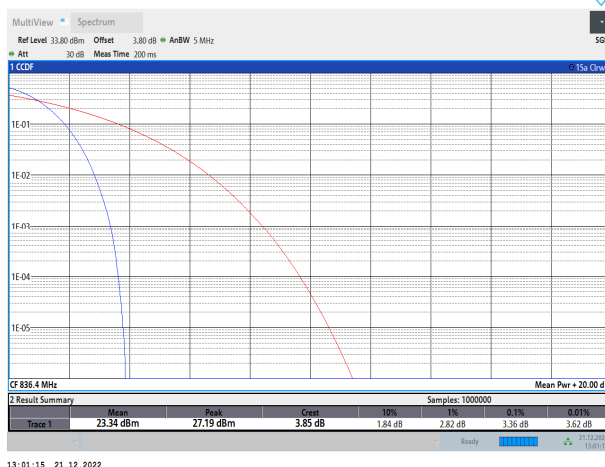
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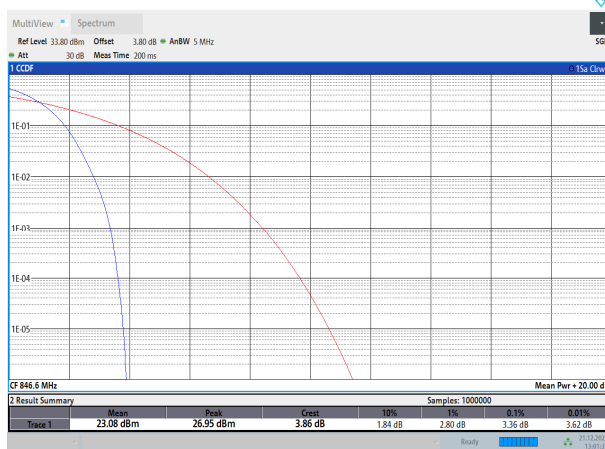
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Band5-4182



13:01:15 21.12.2022

Band5-4233



13:01:17 21.12.2022



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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 7 of 40

Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band4	1513	PASS	PASS
Band5	4182	PASS	PASS



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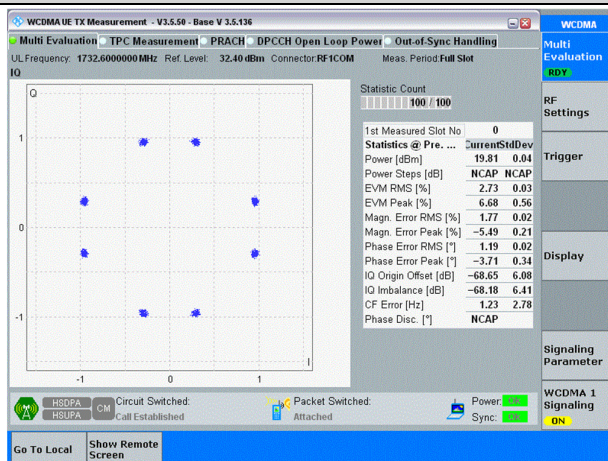
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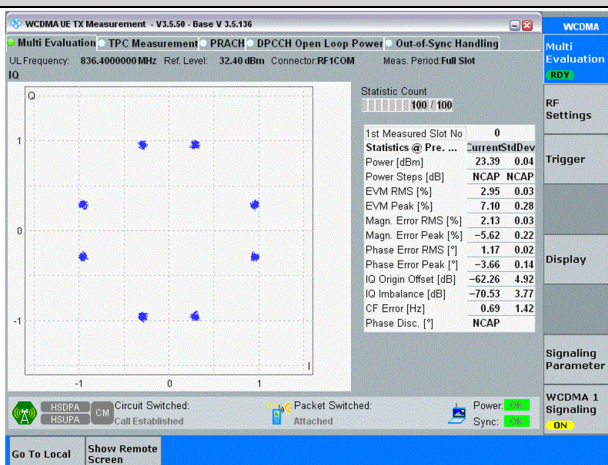
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Test Graphs

Band4-1513



Band5-4182



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Rev.: 02

Page: 9 of 40

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.15	4.73	---	PASS
Band4	1413	4.149	4.73	---	PASS
Band4	1513	4.151	4.73	---	PASS
Band5	4132	4.138	4.71	---	PASS
Band5	4182	4.141	4.72	---	PASS
Band5	4233	4.153	4.72	---	PASS



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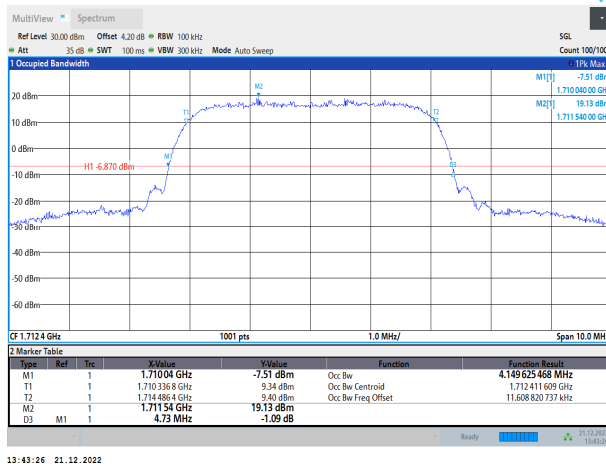
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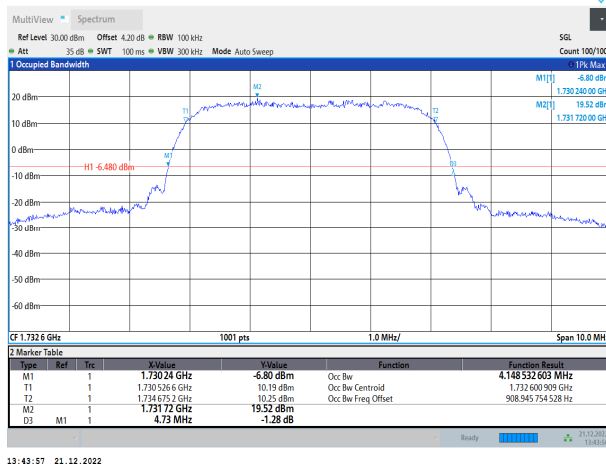
Page: 10 of 40

Test Graphs

Band4-1312



Band4-1413

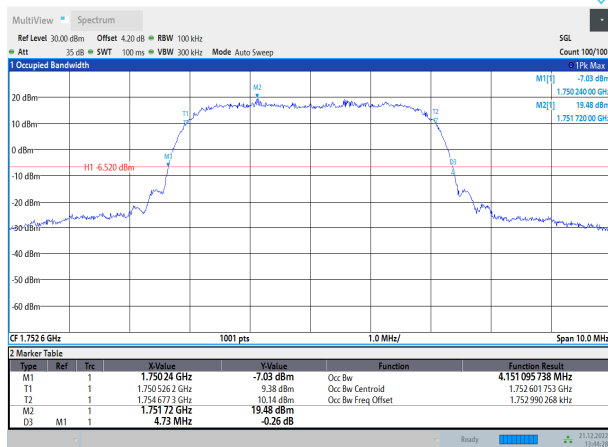


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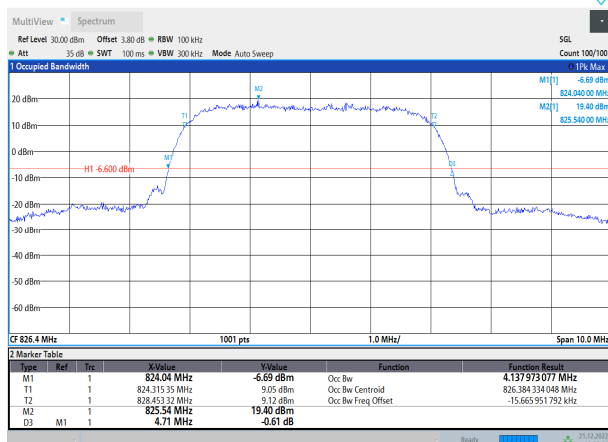
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Band4-1513



13:44:28 21.12.2022

Band5-4132



13:05:05 21.12.2022



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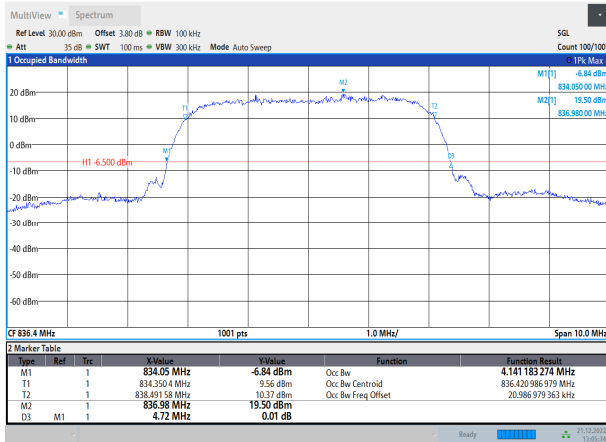
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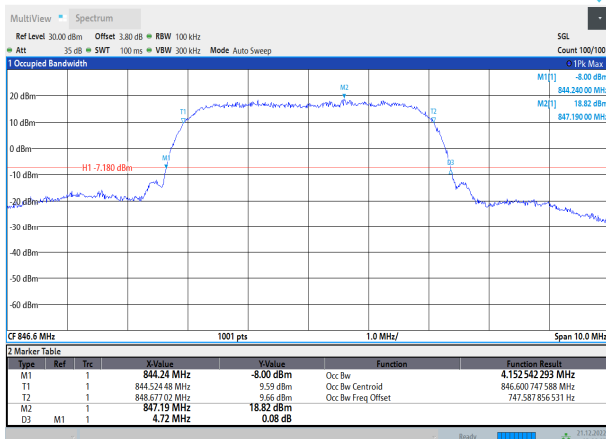
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Band5-4182



13:05:35 21.12.2022

Band5-4233



13:06:06 21.12.2022



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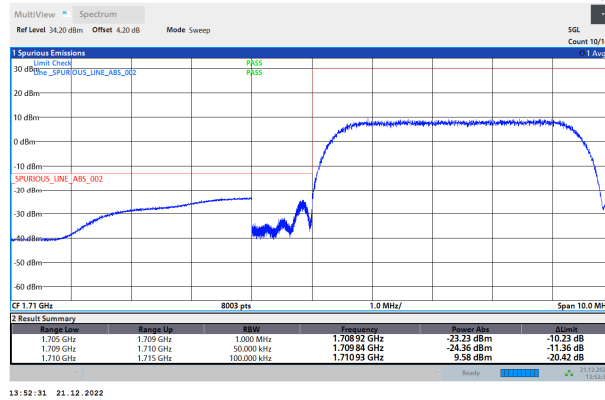
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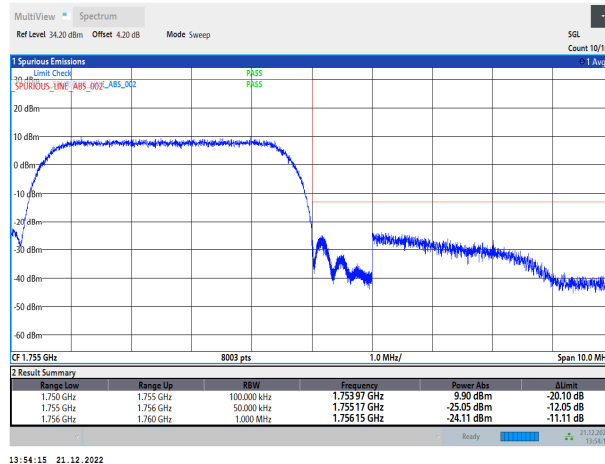
Band Edge

Test Graphs

Band.4-1312



Band4-1513



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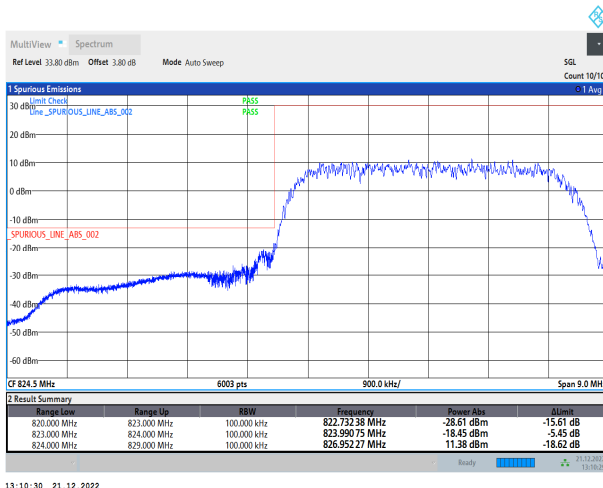
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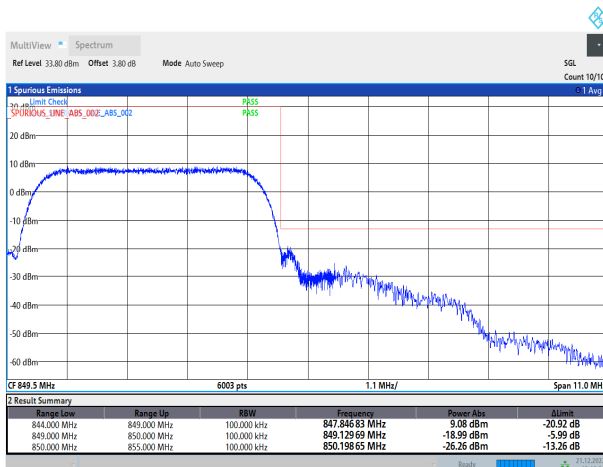
Page: 14 of 40

Band5-4132



13:10:30 21.12.2022

Band5-4233



13:18:32 21.12.2022



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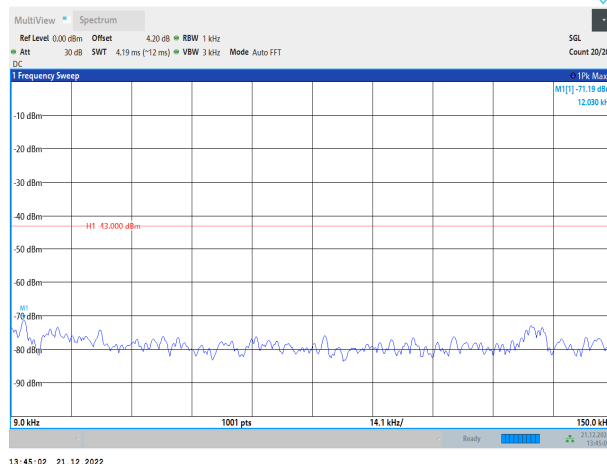
Rev.: 02

Page: 15 of 40

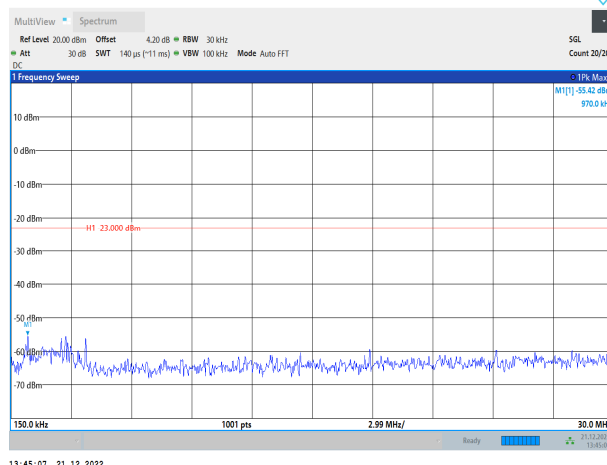
Conducted Spurious Emission

Test Graphs

Band4-1312-0.009~0.15MHz



Band4-1312-0.15~30MHz



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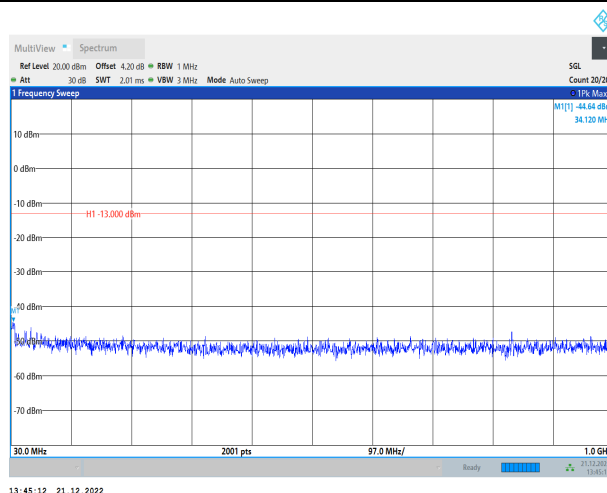
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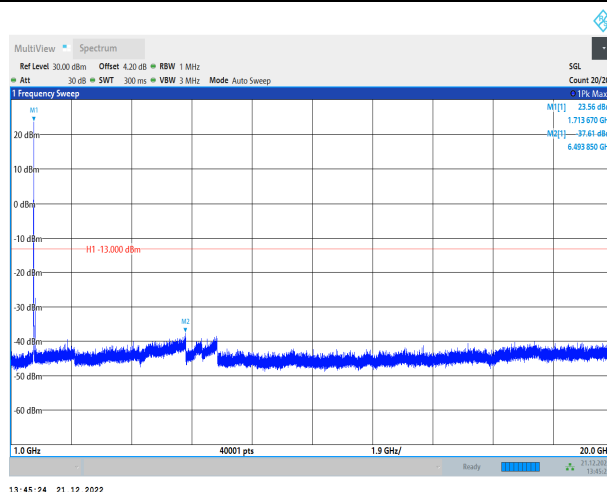
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Page: 16 of 40

Band4-1312-30~1000MHz



Band4-1312-1000~20000MHz



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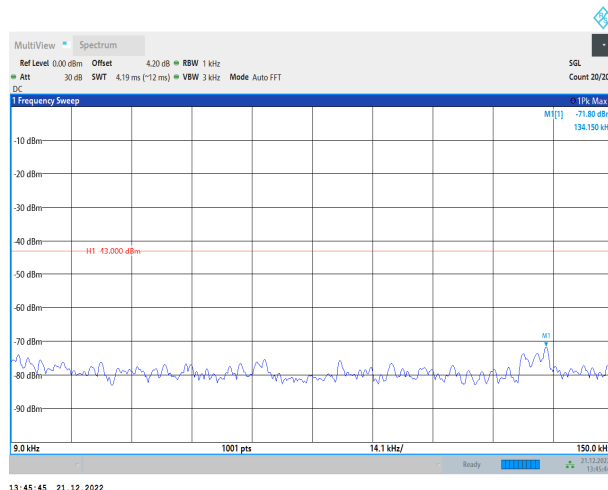
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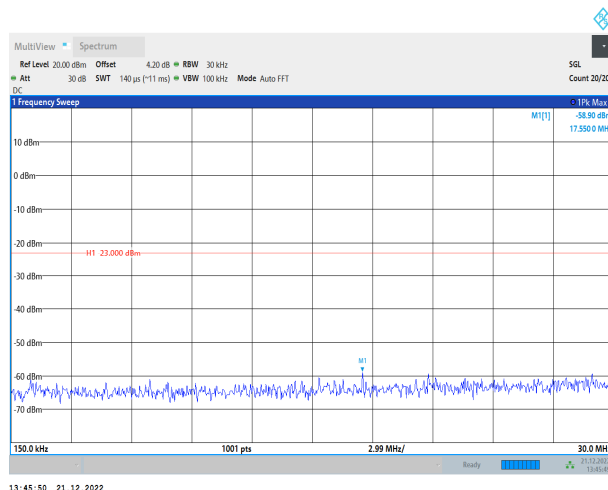
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Page: 17 of 40

Band4-1413-0.009~0.15MHz



Band4-1413-0.15~30MHz



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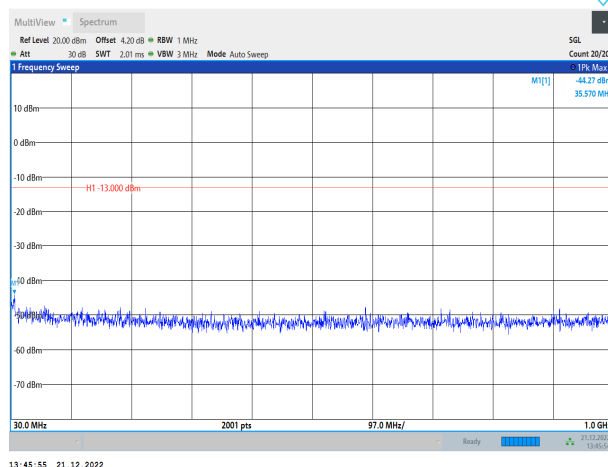
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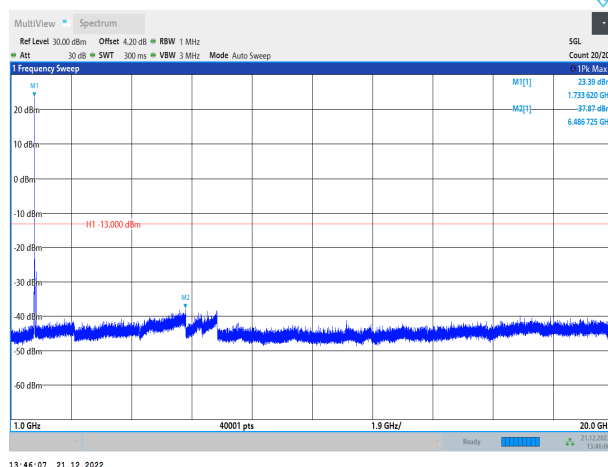
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Band4-1413-30~1000MHz



Band4-1413-1000~20000MHz



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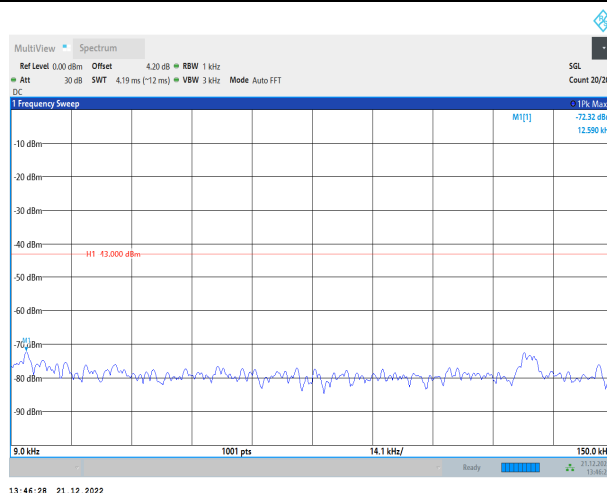
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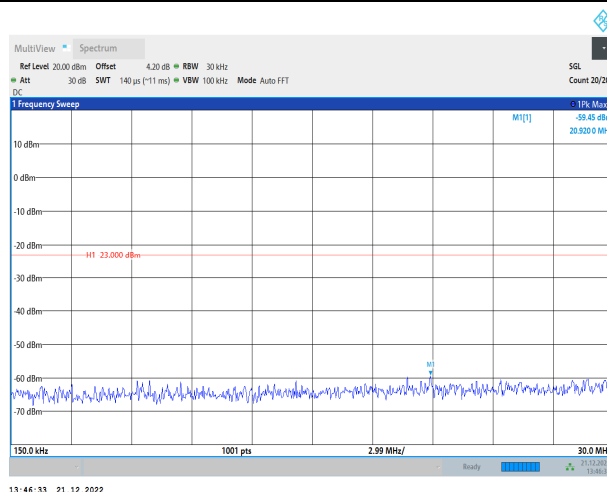
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Band4-1513-0.009~0.15MHz



Band4-1513-0.15~30MHz



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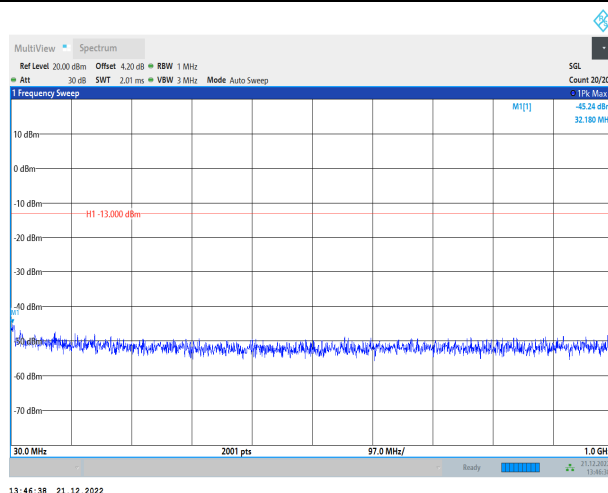
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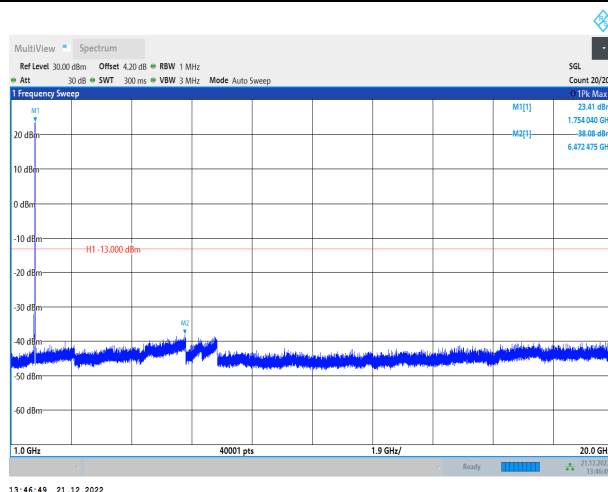
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Band4-1513-30~1000MHz



Band4-1513-1000~20000MHz



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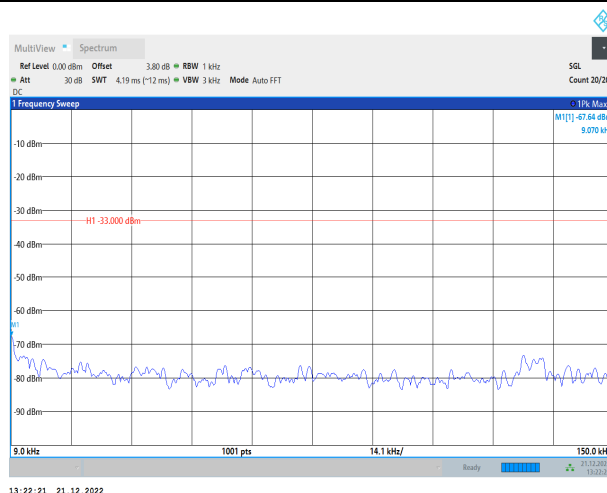
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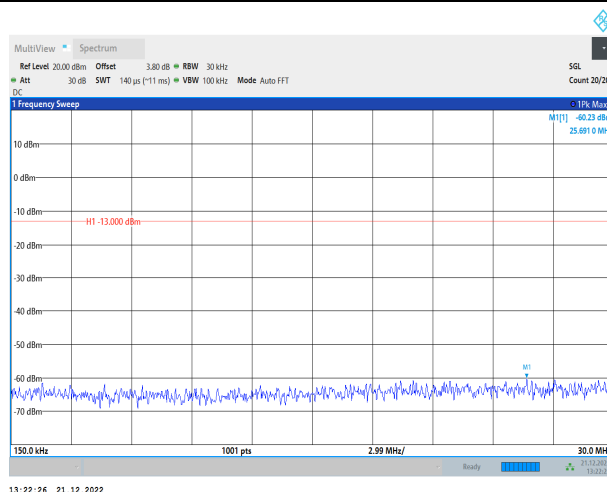
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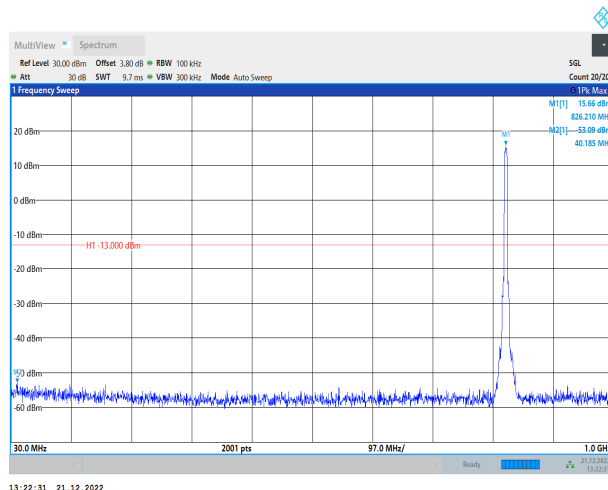
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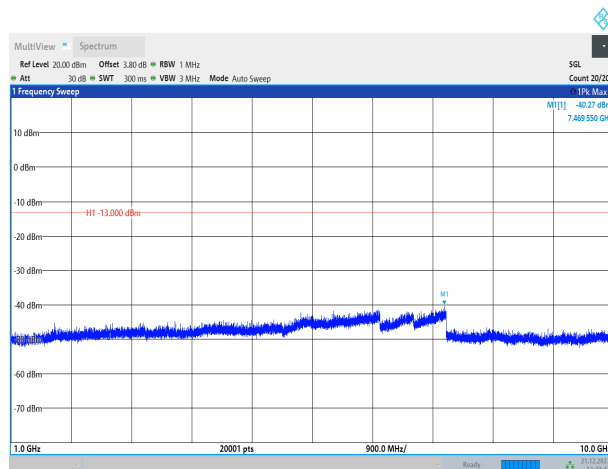
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Band5-4132-1000~10000MHz



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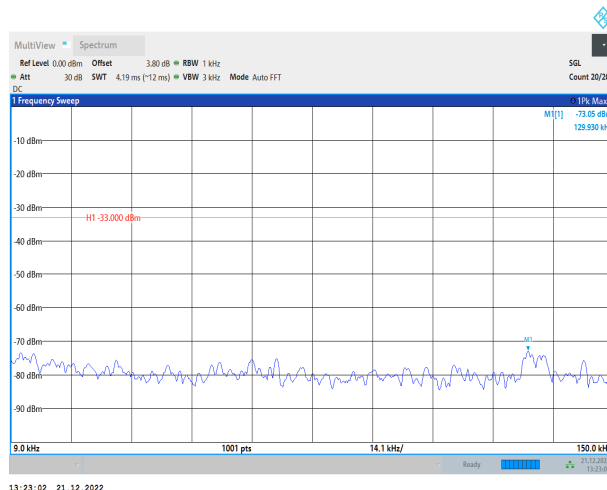
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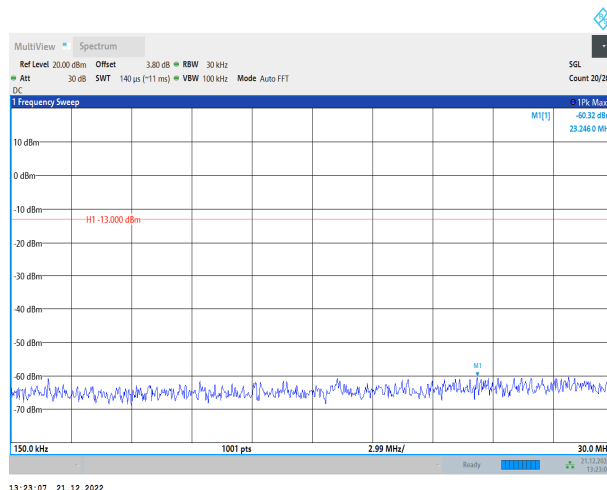
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Band5-4182-0.009~0.15MHz



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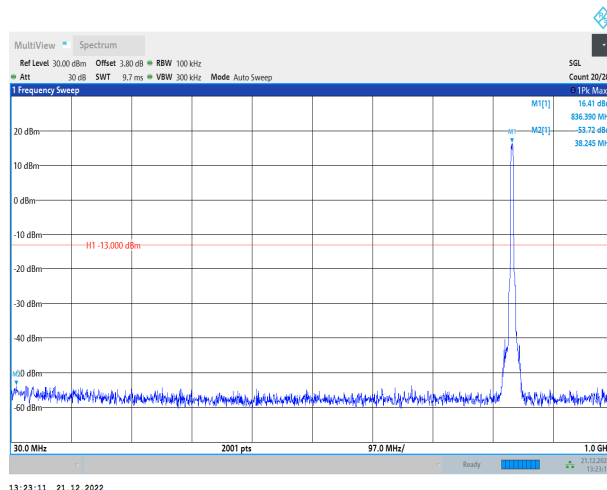
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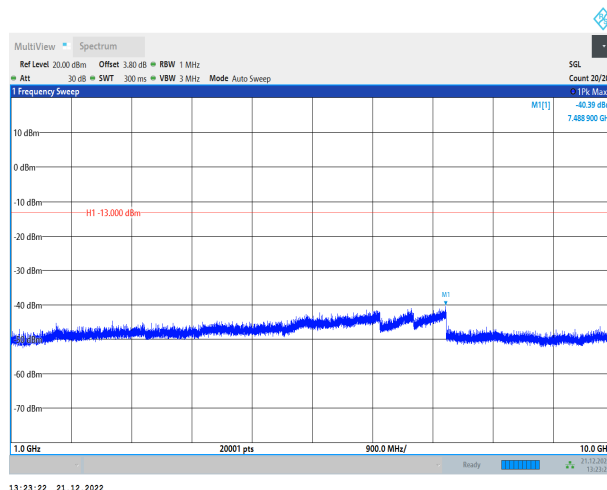
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Band5-4182-30~1000MHz



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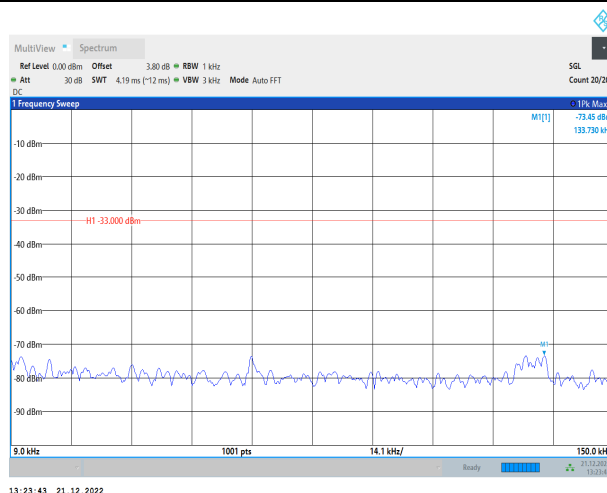
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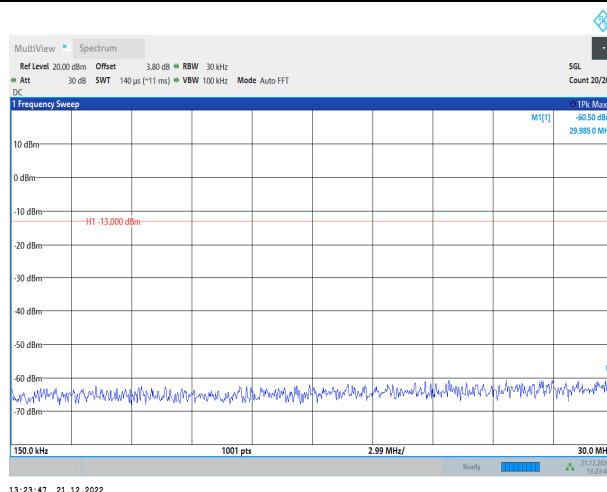
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Page: 25 of 40

Band5-4233-0.009~0.15MHz



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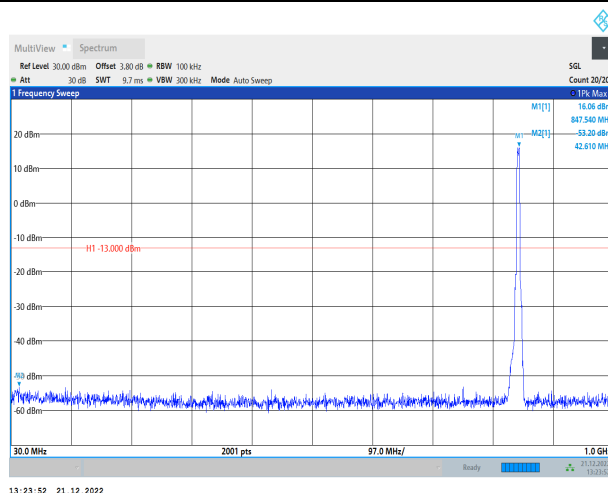
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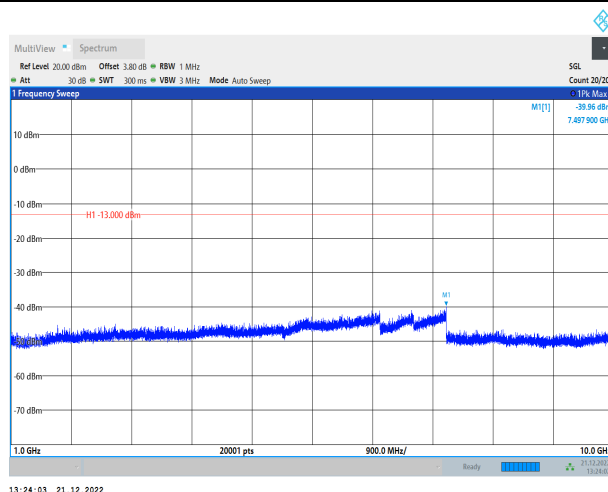
Rev.: 02

Page: 26 of 40

Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz



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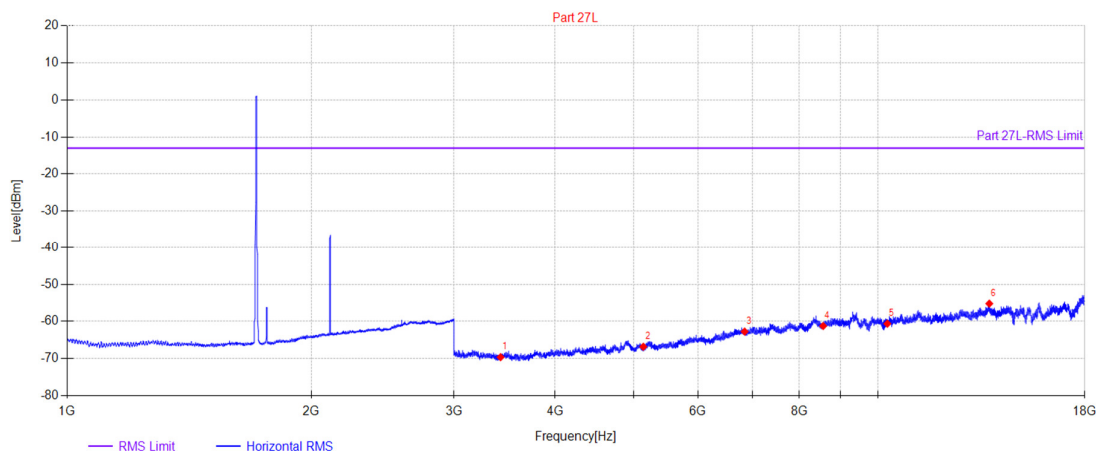
Rev.: 02

Page: 27 of 40

Field Strength of Spurious Radiation

Test Band = WCDMA Band IV_ TM1

Test Channel = Low



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8000	42.45	-46.27	29.45	-69.63	-13.00	56.63	147	304	Horizontal
2	5137.2000	40.83	-45.34	32.96	-66.81	-13.00	53.81	185	215	Horizontal
3	6849.6000	40.75	-44.14	35.90	-62.75	-13.00	49.75	163	244	Horizontal
4	8562.0000	37.80	-41.44	37.67	-61.23	-13.00	48.23	265	61	Horizontal
5	10274.4000	35.00	-39.19	38.83	-60.62	-13.00	47.62	166	30	Horizontal
6	13724.25	36.25	-36.22	40.03	-55.20	-13.00	42.20	192	360	Horizontal



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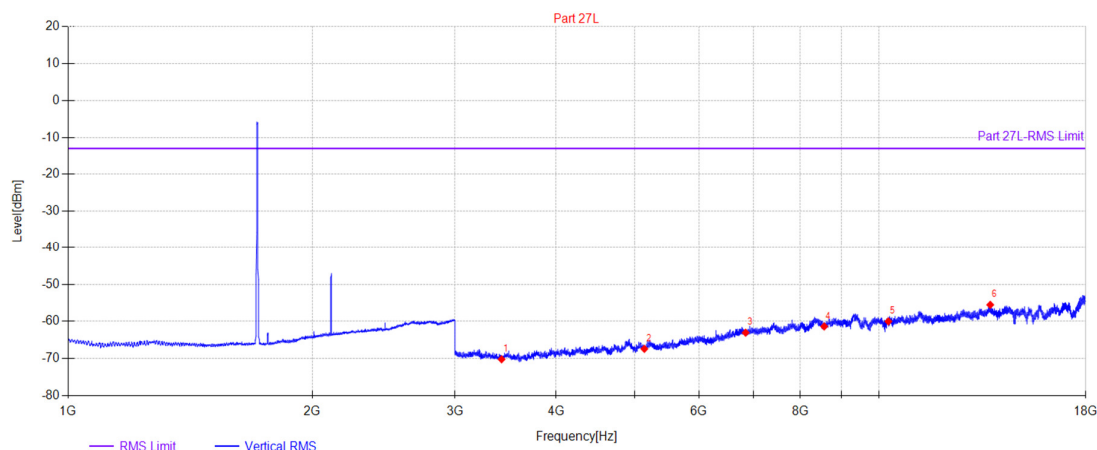
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Rev.: 02

Page: 28 of 40



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8000	41.88	-46.27	29.45	-70.20	-13.00	57.20	157	16	Vertical
2	5137.2000	40.26	-45.34	32.96	-67.38	-13.00	54.38	149	31	Vertical
3	6849.6000	40.47	-44.14	35.90	-63.03	-13.00	50.03	165	320	Vertical
4	8562.0000	37.67	-41.44	37.67	-61.36	-13.00	48.36	128	106	Vertical
5	10274.4000	35.62	-39.19	38.83	-60.00	-13.00	47.00	174	360	Vertical
6	13722	35.91	-36.21	40.03	-55.53	-13.00	42.53	153	16	Vertical



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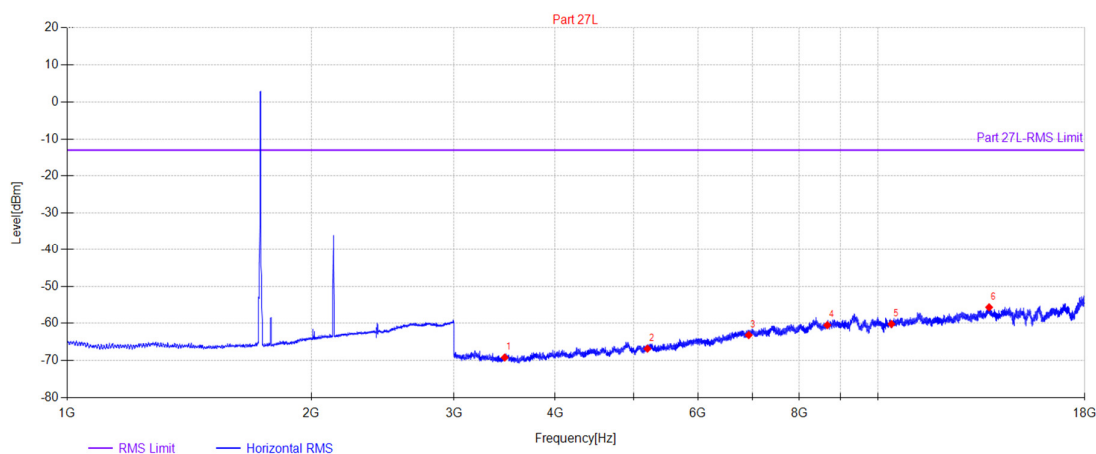
Report No.: SEWM2212000308RG01

Rev.: 02

Page: 29 of 40

Test Band = WCDMA Band IV_ TM1

Test Channel = Mid



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2000	42.85	-46.27	29.49	-69.19	-13.00	56.19	125	346	Horizontal
2	5197.8000	40.75	-45.28	32.99	-66.80	-13.00	53.80	136	91	Horizontal
3	6930.4000	40.05	-43.93	36.00	-63.14	-13.00	50.14	245	152	Horizontal
4	8663.0000	38.49	-41.56	37.85	-60.47	-13.00	47.47	185	166	Horizontal
5	10395.6000	35.24	-39.01	38.86	-60.17	-13.00	47.17	196	254	Horizontal
6	13716.75	35.76	-36.20	40.04	-55.66	-13.00	42.66	174	197	Horizontal



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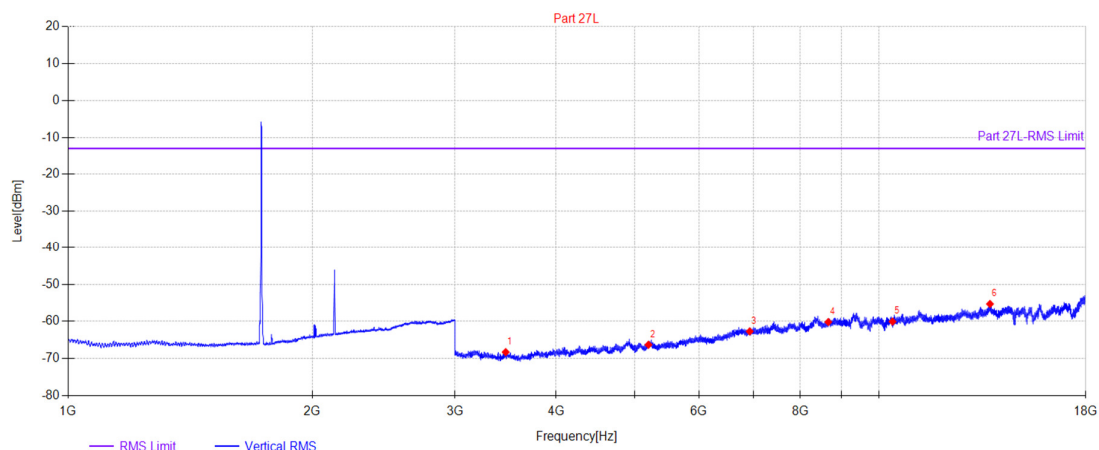
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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 30 of 40



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2000	43.78	-46.27	29.49	-68.26	-13.00	55.26	245	153	Vertical
2	5197.8000	41.26	-45.28	32.99	-66.29	-13.00	53.29	156	213	Vertical
3	6930.4000	40.50	-43.93	36.00	-62.69	-13.00	49.69	251	75	Vertical
4	8663.0000	38.79	-41.56	37.85	-60.17	-13.00	47.17	184	136	Vertical
5	10395.6000	35.36	-39.01	38.86	-60.05	-13.00	47.05	175	347	Vertical
6	13712.25	36.11	-36.19	40.04	-55.30	-13.00	42.30	136	16	Vertical



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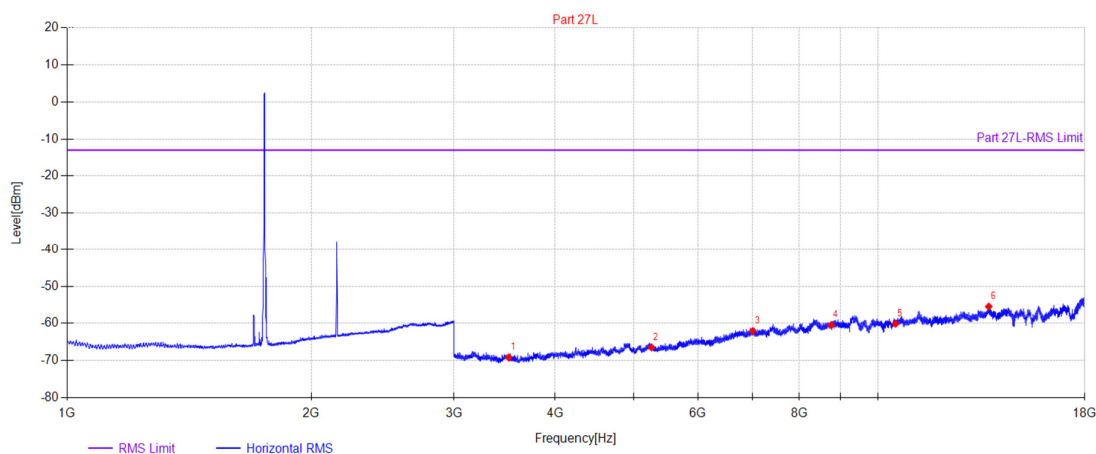
Report No.: SEWM2212000308RG01

Rev.: 02

Page: 31 of 40

Test Band = WCDMA Band IV_ TM1

Test Channel = High



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2000	42.83	-46.25	29.52	-69.16	-13.00	56.16	274	306	Horizontal
2	5257.8000	41.02	-45.17	32.93	-66.47	-13.00	53.47	156	337	Horizontal
3	7010.4000	40.71	-43.62	36.11	-62.06	-13.00	49.06	136	214	Horizontal
4	8763.0000	38.21	-41.41	38.02	-60.44	-13.00	47.44	251	347	Horizontal
5	10515.6000	34.95	-38.75	38.98	-60.08	-13.00	47.08	148	106	Horizontal
6	13704	35.90	-36.17	40.05	-55.48	-13.00	42.48	159	289	Horizontal



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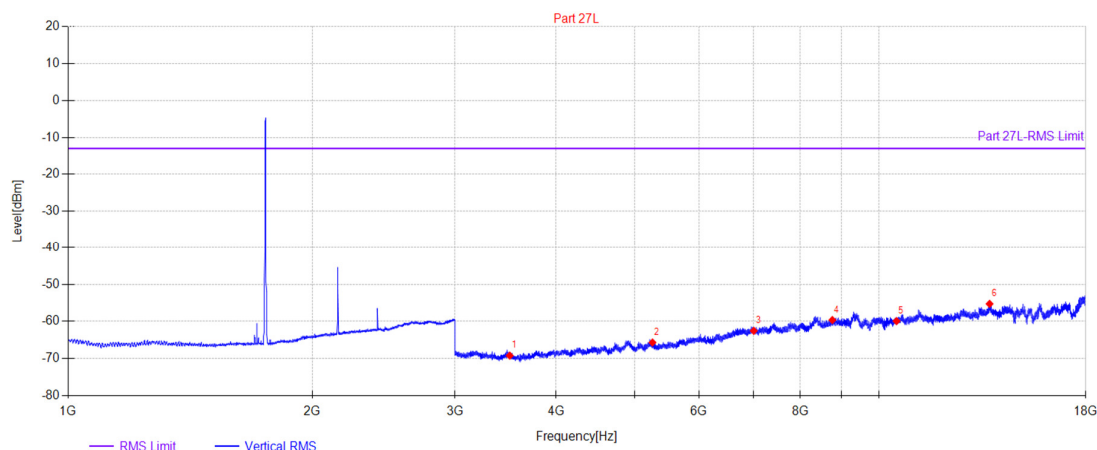
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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 32 of 40



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2000	42.78	-46.25	29.52	-69.21	-13.00	56.21	274	244	Vertical
2	5257.8000	41.81	-45.17	32.93	-65.68	-13.00	52.68	145	358	Vertical
3	7010.4000	40.23	-43.62	36.11	-62.54	-13.00	49.54	129	44	Vertical
4	8763.0000	39.02	-41.41	38.02	-59.63	-13.00	46.63	126	291	Vertical
5	10515.6000	35.12	-38.75	38.98	-59.91	-13.00	46.91	236	74	Vertical
6	13696.5	36.08	-36.16	40.06	-55.28	-13.00	42.28	251	44	Vertical



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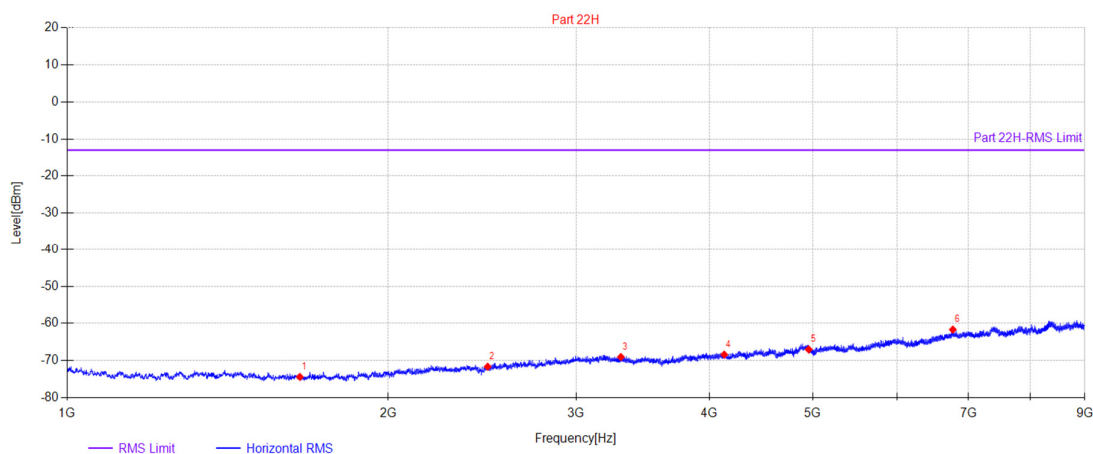
Report No.: SEWM2212000308RG01

Rev.: 02

Page: 33 of 40

Test Band = WCDMA Band V_ TM1

Test Channel = Low



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	43.69	-48.22	25.37	-74.41	-13.00	61.41	274	266	Horizontal
2	2479.2000	43.20	-47.31	27.70	-71.66	-13.00	58.66	145	158	Horizontal
3	3305.6000	43.34	-46.67	29.55	-69.04	-13.00	56.04	195	0	Horizontal
4	4132.0000	41.78	-45.92	31.00	-68.40	-13.00	55.40	185	184	Horizontal
5	4958.4000	41.20	-45.72	32.76	-67.01	-13.00	54.01	142	91	Horizontal
6	6768.5714	41.91	-44.10	35.78	-61.67	-13.00	48.67	166	0	Horizontal



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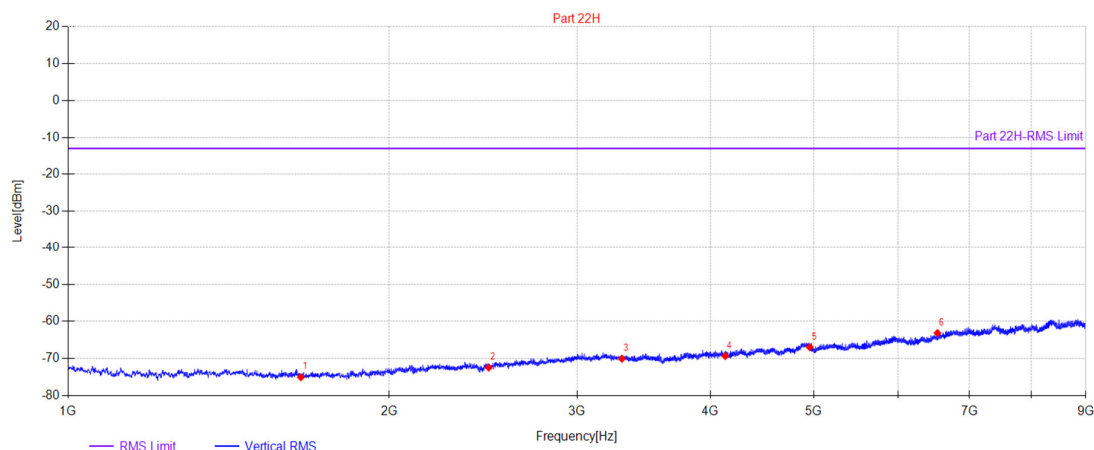
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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 34 of 40



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	43.08	-48.22	25.37	-75.02	-13.00	62.02	288	336	Vertical
2	2479.2000	42.45	-47.31	27.70	-72.41	-13.00	59.41	177	93	Vertical
3	3305.6000	42.34	-46.67	29.55	-70.04	-13.00	57.04	165	295	Vertical
4	4132.0000	40.86	-45.92	31.00	-69.32	-13.00	56.32	128	255	Vertical
5	4958.4000	41.29	-45.72	32.76	-66.92	-13.00	53.92	133	79	Vertical
6	6533.7143	41.57	-44.60	35.17	-63.12	-13.00	50.12	291	79	Vertical



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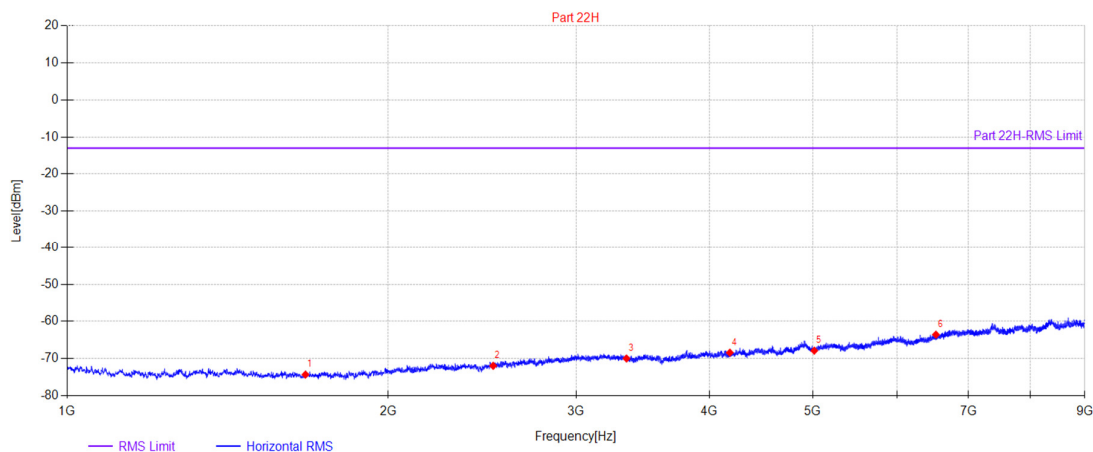
Report No.: SEWM2212000308RG01

Rev.: 02

Page: 35 of 40

Test Band = WCDMA Band V_ TM1

Test Channel = Mid



Data List

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1	1672.8000	43.75	-48.19	25.38	-74.32	-13.00	61.32	248	279	Horizontal
2	2509.2000	42.74	-47.24	27.80	-71.95	-13.00	58.95	157	319	Horizontal
3	3345.6000	42.40	-46.62	29.50	-69.98	-13.00	56.98	199	170	Horizontal
4	4182.0000	41.72	-45.95	31.07	-68.42	-13.00	55.42	145	332	Horizontal
5	5018.4000	40.23	-45.73	32.89	-67.87	-13.00	54.87	166	48	Horizontal
6	6526.2857	41.16	-44.61	35.14	-63.57	-13.00	50.57	182	356	Horizontal



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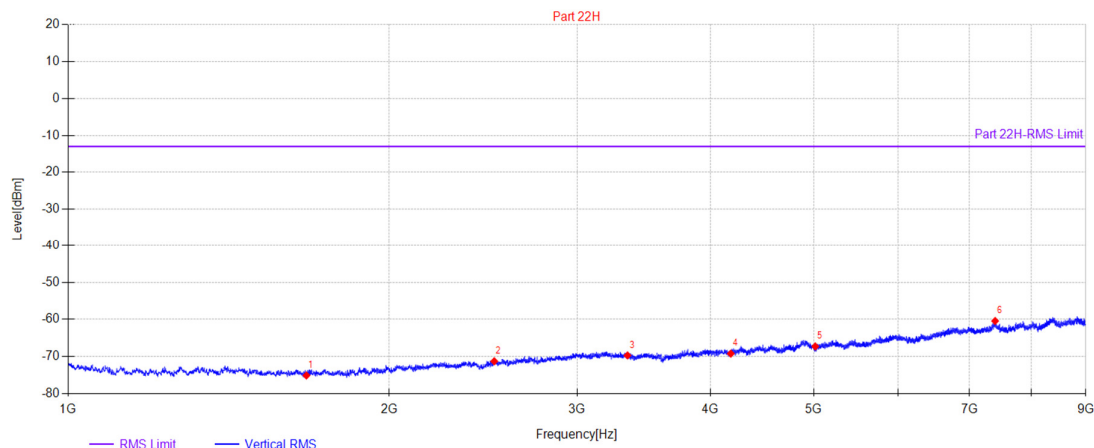
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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 36 of 40



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	42.97	-48.19	25.38	-75.10	-13.00	62.10	274	163	Vertical
2	2509.2000	43.42	-47.24	27.80	-71.27	-13.00	58.27	188	110	Vertical
3	3345.6000	42.68	-46.62	29.50	-69.70	-13.00	56.70	198	312	Vertical
4	4182.0000	40.93	-45.95	31.07	-69.21	-13.00	56.21	145	55	Vertical
5	5018.4000	40.83	-45.73	32.89	-67.27	-13.00	54.27	165	360	Vertical
6	7400	41.61	-43.26	36.49	-60.42	-13.00	47.42	128	163	Vertical



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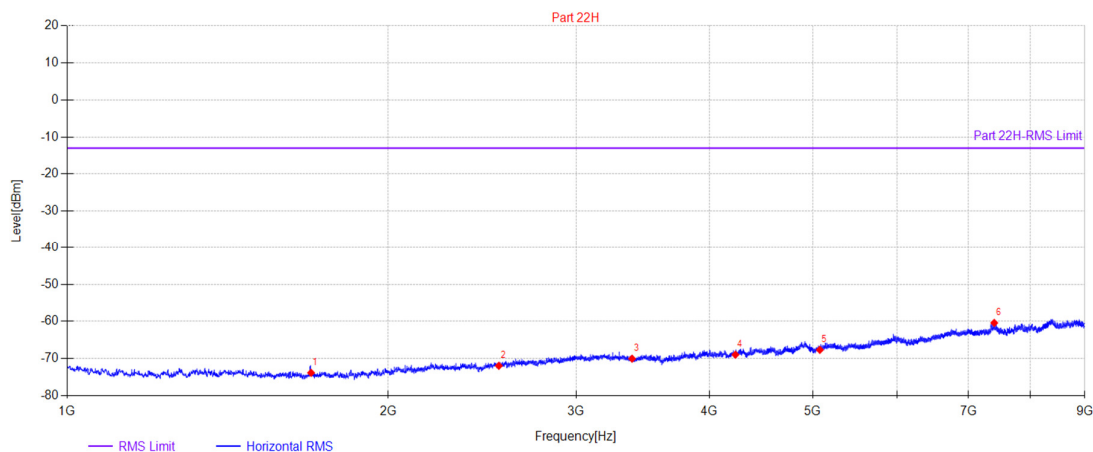
Report No.: SEWM2212000308RG01

Rev.: 02

Page: 37 of 40

Test Band = WCDMA Band V_ TM1

Test Channel = High



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	44.20	-48.17	25.39	-73.84	-13.00	60.84	222	92	Horizontal
2	2539.8000	42.54	-47.13	27.90	-71.95	-13.00	58.95	154	146	Horizontal
3	3386.4000	42.34	-46.56	29.45	-70.03	-13.00	57.03	184	120	Horizontal
4	4233.0000	41.03	-45.90	31.17	-68.96	-13.00	55.96	175	52	Horizontal
5	5079.6000	40.14	-45.47	32.92	-67.66	-13.00	54.66	195	226	Horizontal
6	7402.2857	41.64	-43.26	36.49	-60.40	-13.00	47.40	148	0	Horizontal



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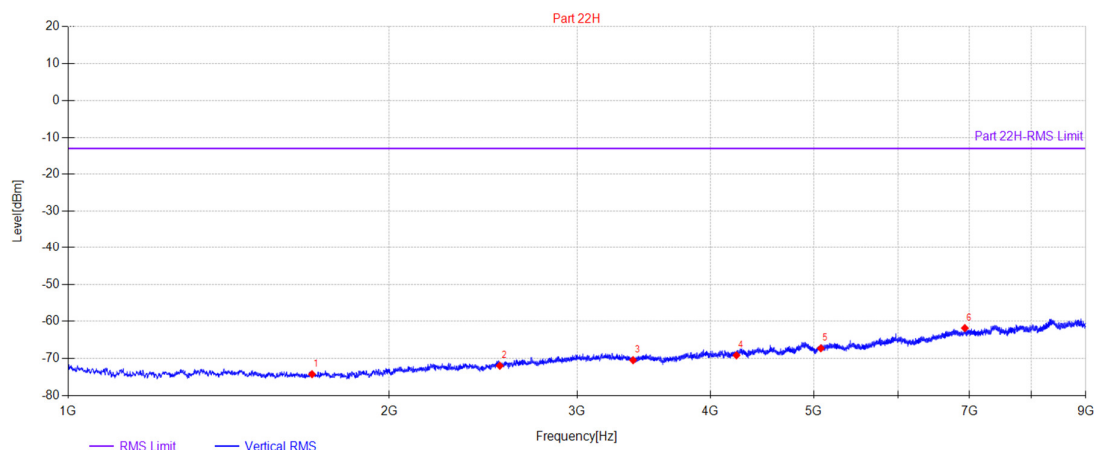
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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 38 of 40



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	43.82	-48.17	25.39	-74.22	-13.00	61.22	287	106	Vertical
2	2539.8000	42.55	-47.13	27.90	-71.94	-13.00	58.94	198	188	Vertical
3	3386.4000	41.93	-46.56	29.45	-70.44	-13.00	57.44	144	121	Vertical
4	4233.0000	40.86	-45.90	31.17	-69.13	-13.00	56.13	152	176	Vertical
5	5079.6000	40.56	-45.47	32.92	-67.24	-13.00	54.24	136	53	Vertical
6	6932	41.44	-43.98	36.00	-61.80	-13.00	48.80	281	243	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 39 of 40

Frequency Stability

Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	1413	VL	NT	8.37	0.004831	PASS
Band4	1413	VN	NT	5.47	0.003157	PASS
Band4	1413	VH	NT	8.05	0.004646	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	VL	NT	-3.71	-0.004436	±2.5	PASS
Band5	4182	VN	NT	-1.96	-0.002343	±2.5	PASS
Band5	4182	VH	NT	-4.56	-0.005452	±2.5	PASS



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Report No.: SEWM2212000308RG01

Rev.: 02

Page: 40 of 40

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	1413	NV	-30	5.17	0.002984	PASS
Band4	1413	NV	-20	5.35	0.003088	PASS
Band4	1413	NV	-10	5.35	0.003088	PASS
Band4	1413	NV	0	4.45	0.002568	PASS
Band4	1413	NV	10	4.88	0.002817	PASS
Band4	1413	NV	20	3.49	0.002014	PASS
Band4	1413	NV	30	4.10	0.002366	PASS
Band4	1413	NV	40	2.97	0.001714	PASS
Band4	1413	NV	50	1.76	0.001016	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	NV	-30	-4.18	-0.004998	±2.5	PASS
Band5	4182	NV	-20	-3.57	-0.004268	±2.5	PASS
Band5	4182	NV	-10	-2.78	-0.003324	±2.5	PASS
Band5	4182	NV	0	-2.78	-0.003324	±2.5	PASS
Band5	4182	NV	10	-2.27	-0.002714	±2.5	PASS
Band5	4182	NV	20	-1.82	-0.002176	±2.5	PASS
Band5	4182	NV	30	-1.41	-0.001686	±2.5	PASS
Band5	4182	NV	40	-1.46	-0.001746	±2.5	PASS
Band5	4182	NV	50	-0.94	-0.001124	±2.5	PASS

---End of Attachment---



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