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Appendix B.2

WCDMA Band II&IV&V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant0:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	9262	23.30	21.60	33	PASS
Band2	9400	23.00	21.30	33	PASS
Band2	9538	23.19	21.49	33	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	23.16	22.16	30	PASS
Band4	1413	23.11	22.11	30	PASS
Band4	1513	23.23	22.23	30	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	23.45	16.50	38.5	PASS
Band5	4182	23.49	16.54	38.5	PASS
Band5	4233	22.97	16.02	38.5	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	2.98	13	PASS
Band2	9400	3.00	13	PASS
Band2	9538	2.94	13	PASS
Band4	1312	2.98	13	PASS
Band4	1413	3.04	13	PASS
Band4	1513	2.80	13	PASS
Band5	4132	2.94	13	PASS
Band5	4182	2.98	13	PASS
Band5	4233	3.04	13	PASS



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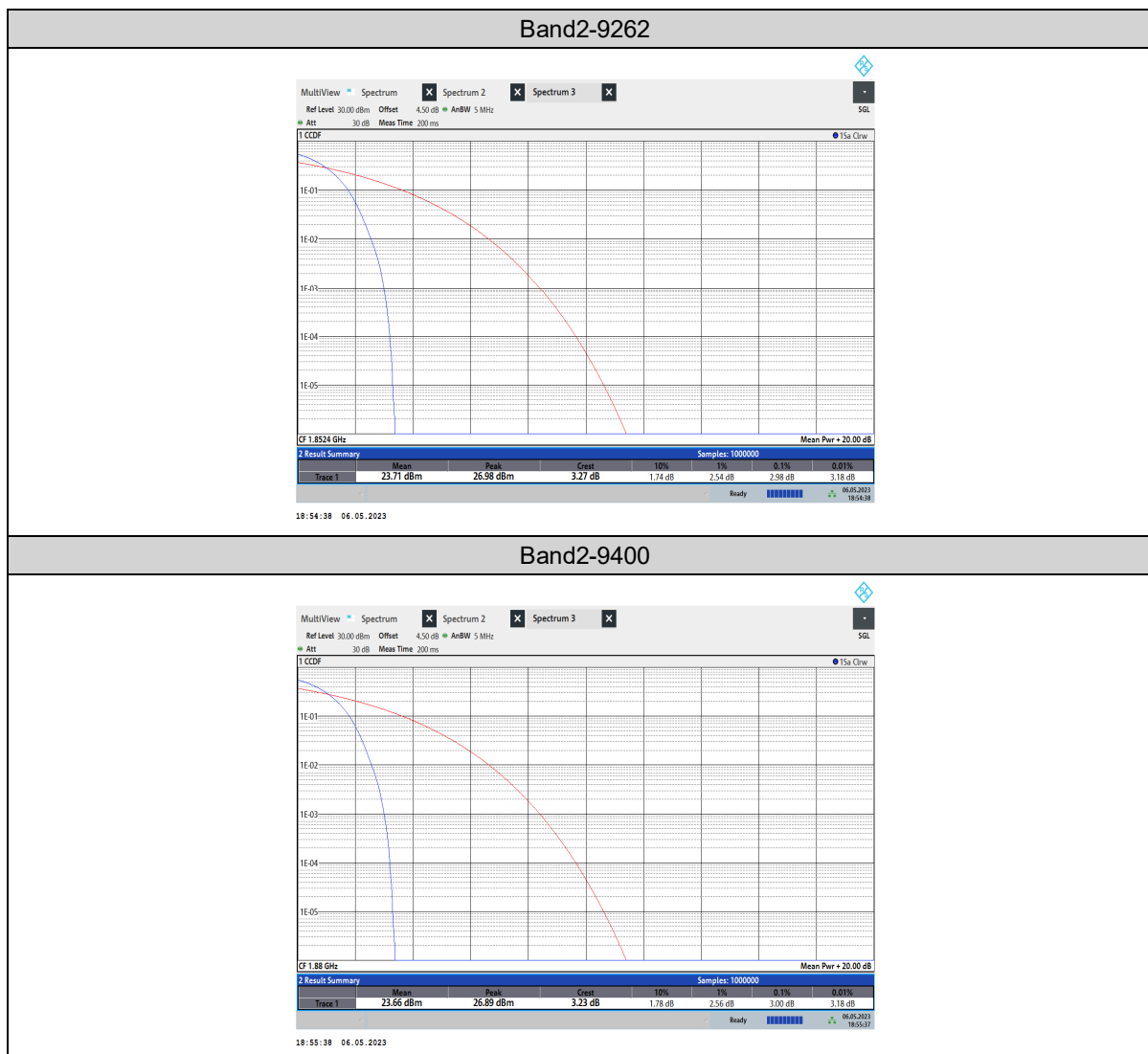
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Test Graphs



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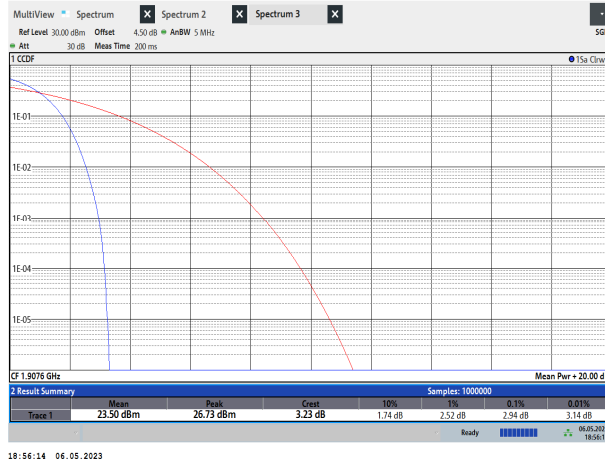
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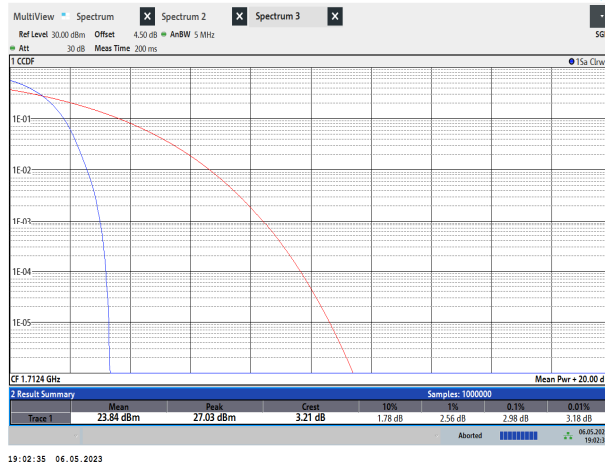
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Band2-9538



Band4-1312



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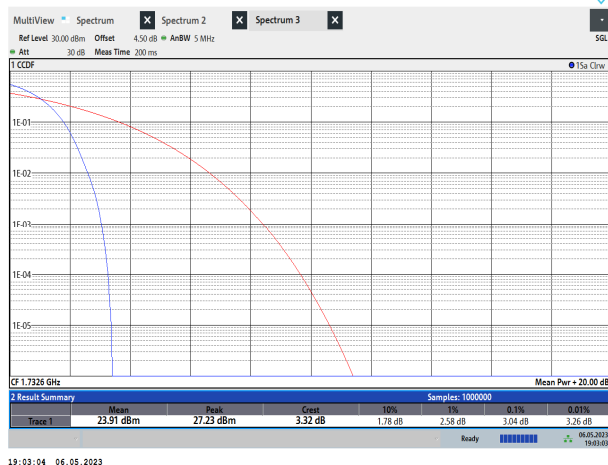
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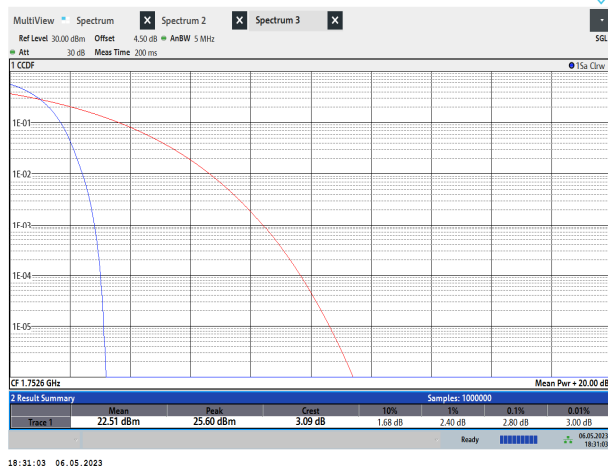
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Band4-1413



Band4-1513



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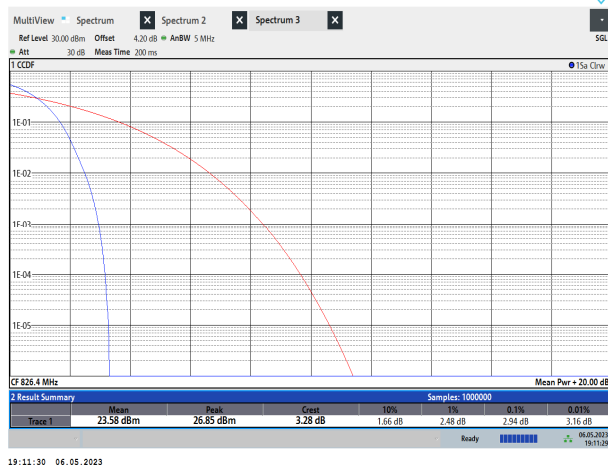
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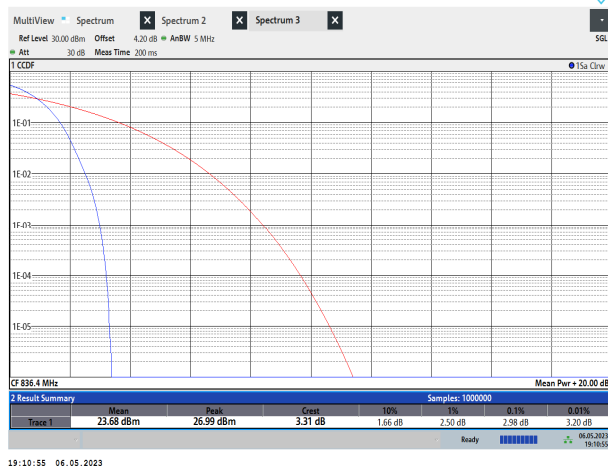
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Band5-4132



Band5-4182



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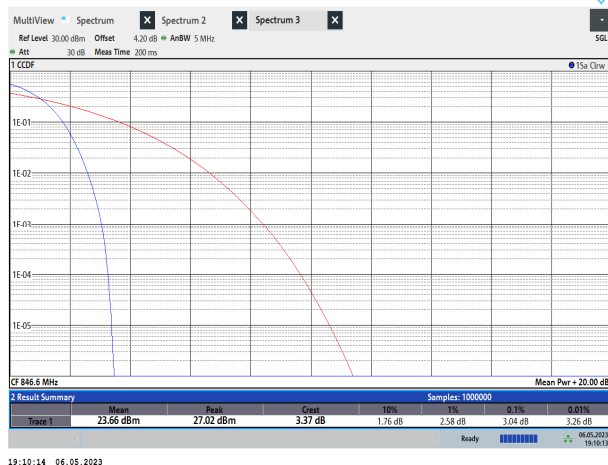
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Modulation Characteristics

Test Result

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

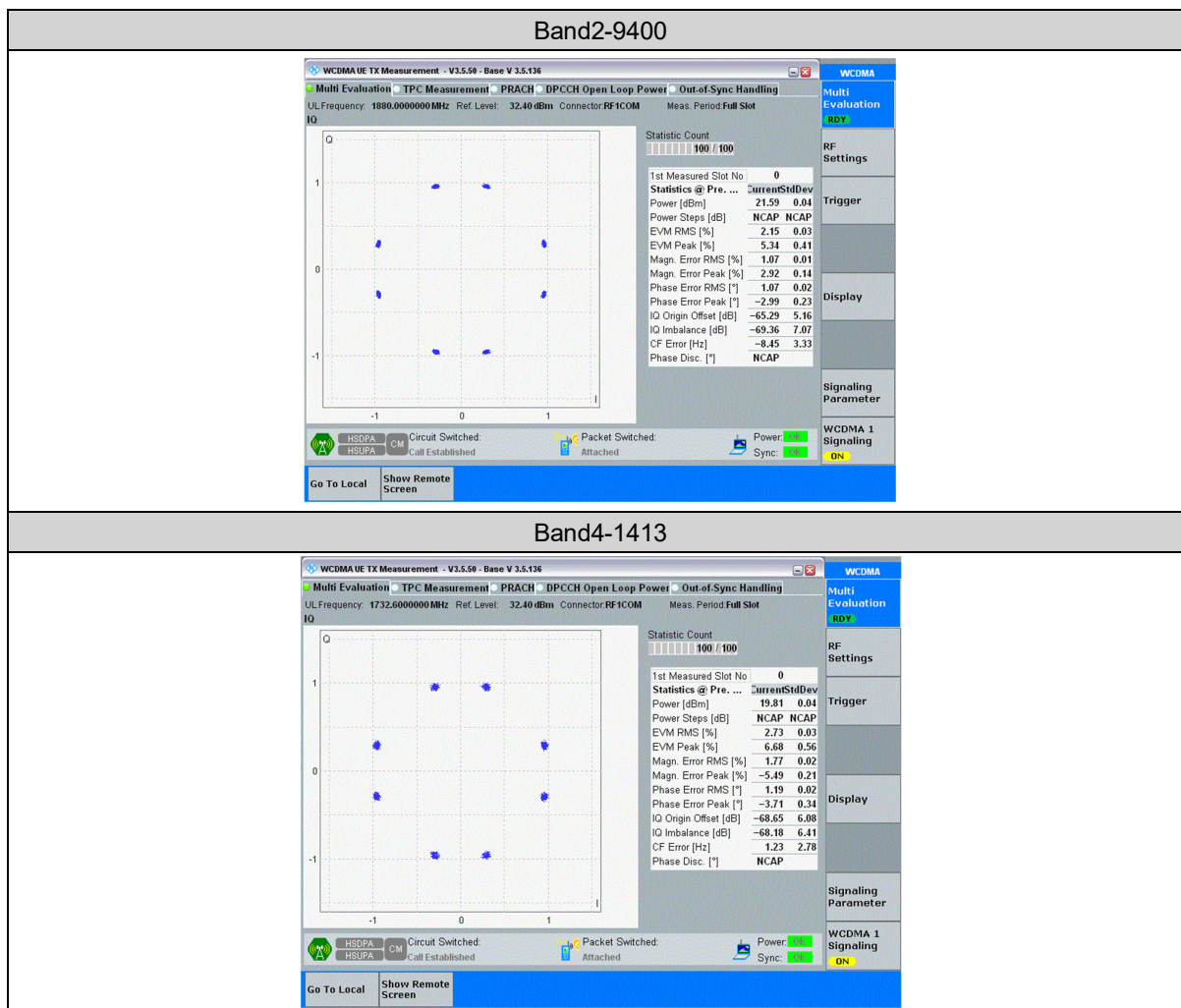


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Test Graphs

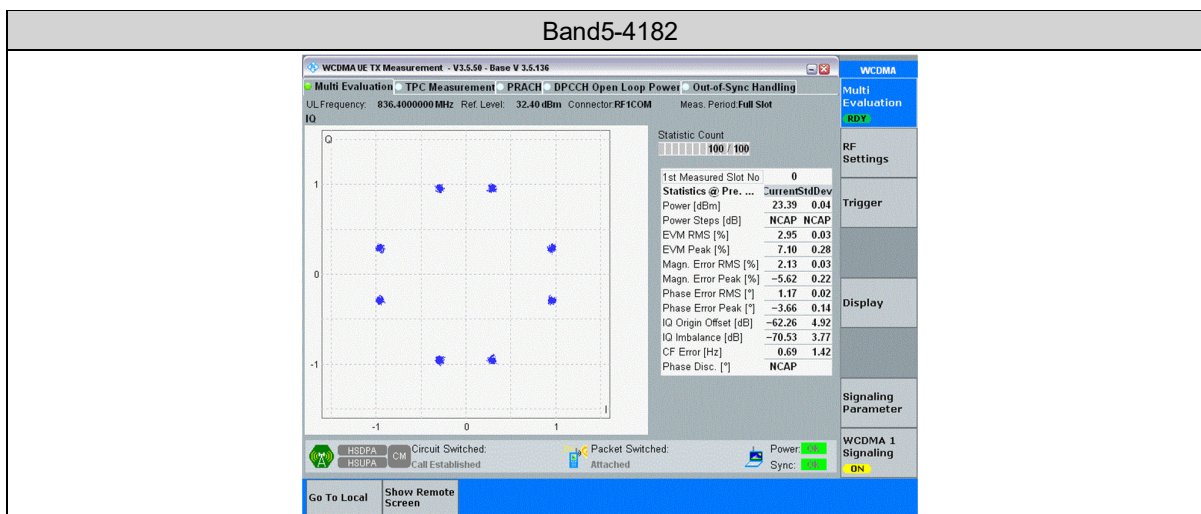


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.163	4.75	---	PASS
Band2	9400	4.171	4.76	---	PASS
Band2	9538	4.175	4.75	---	PASS
Band4	1312	4.149	4.74	---	PASS
Band4	1413	4.15	4.72	---	PASS
Band4	1513	4.149	4.73	---	PASS
Band5	4132	4.142	4.75	---	PASS
Band5	4182	4.139	4.73	---	PASS
Band5	4233	4.142	4.74	---	PASS



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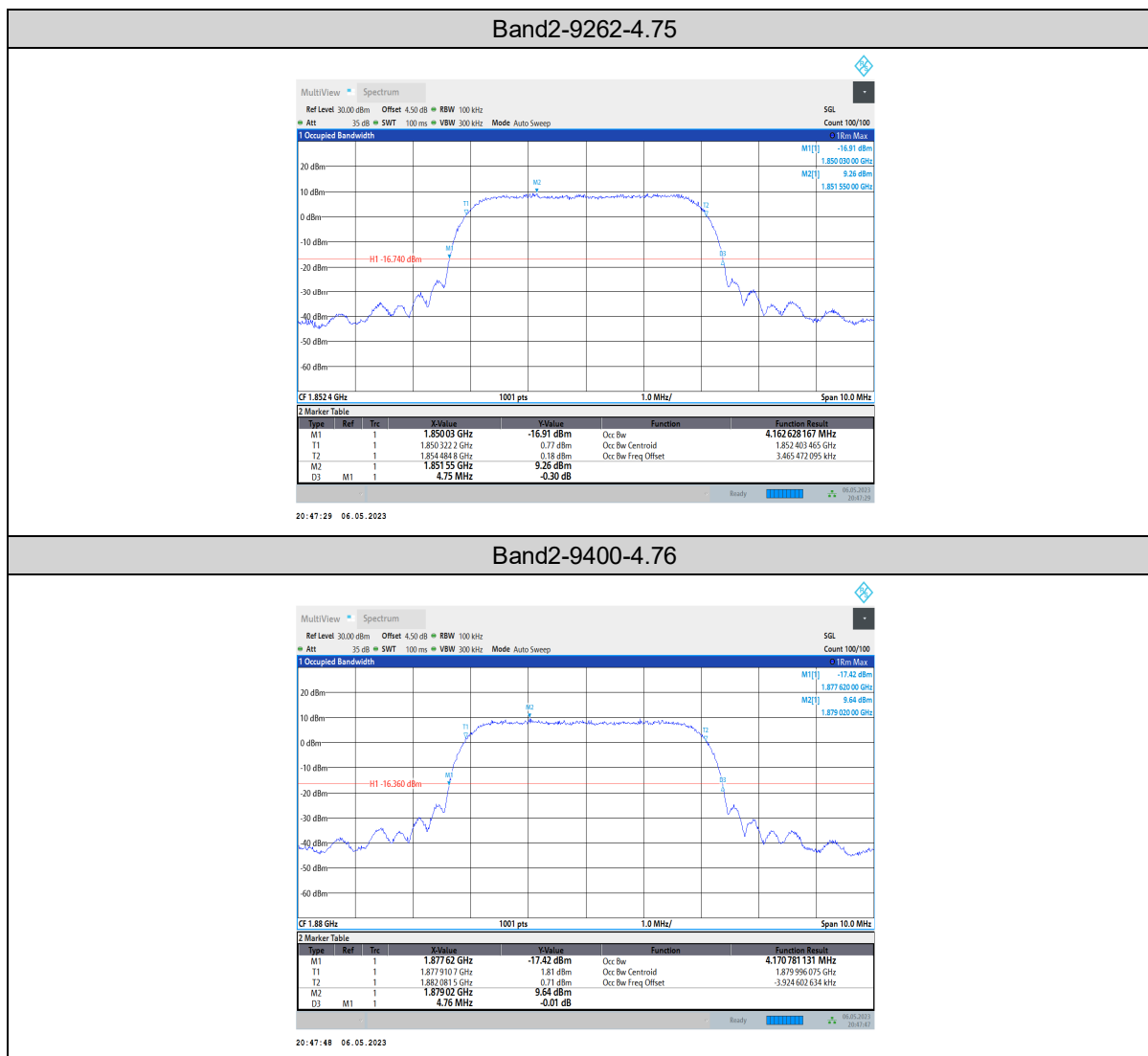
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Test Graphs



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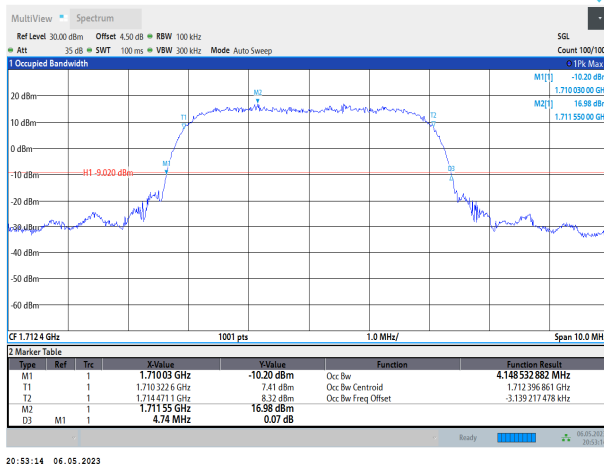
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Band2-9538-4.75



Band4-1312-4.74



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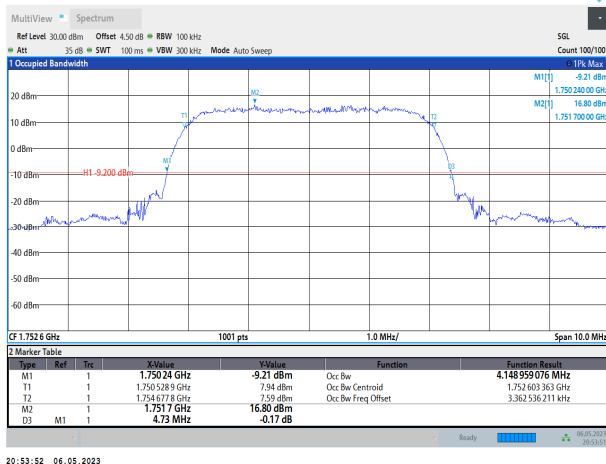
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Band4-1413-4.72



Band4-1513-4.73



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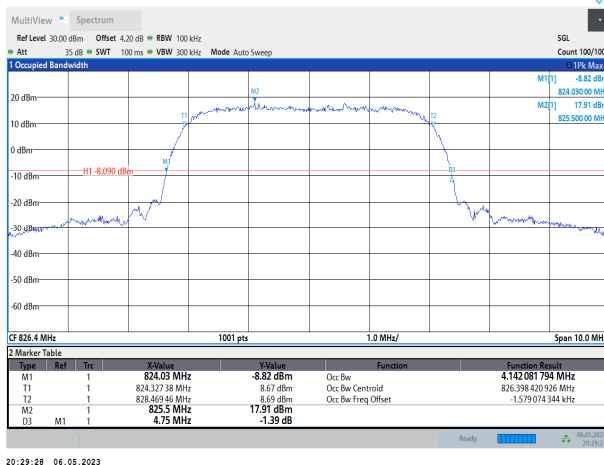
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Band5-4182-4.73



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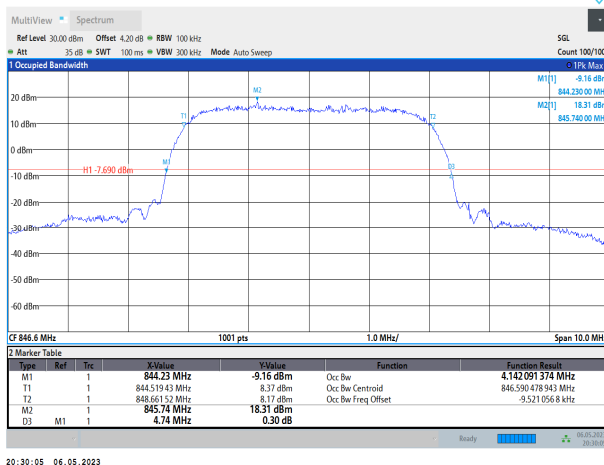
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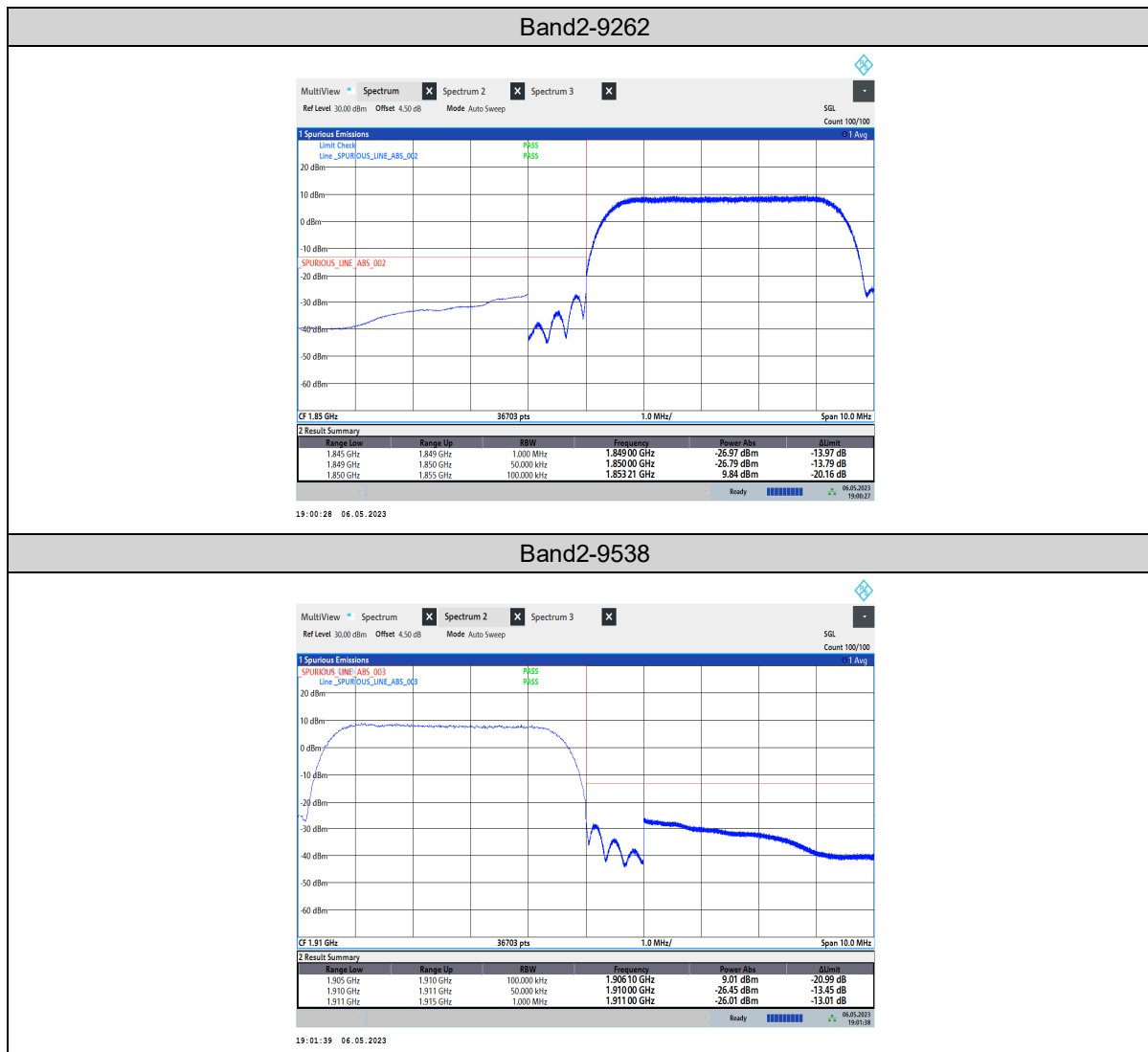
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Band Edge

Test Graphs



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Band4-1312



Band4-1513



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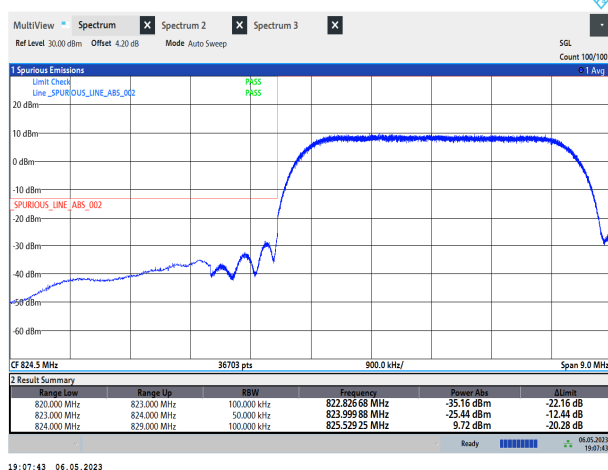
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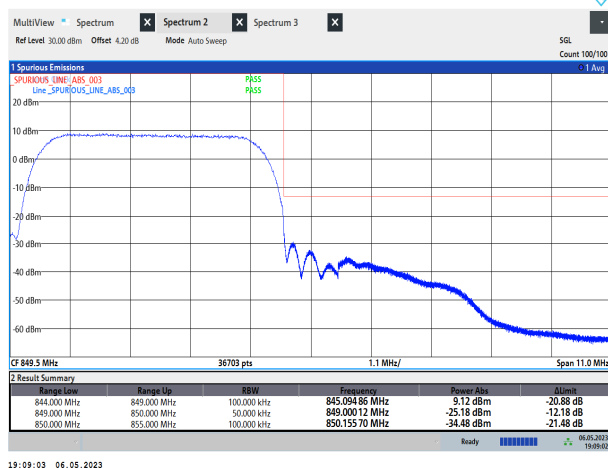
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Band5-4132



Band5-4233



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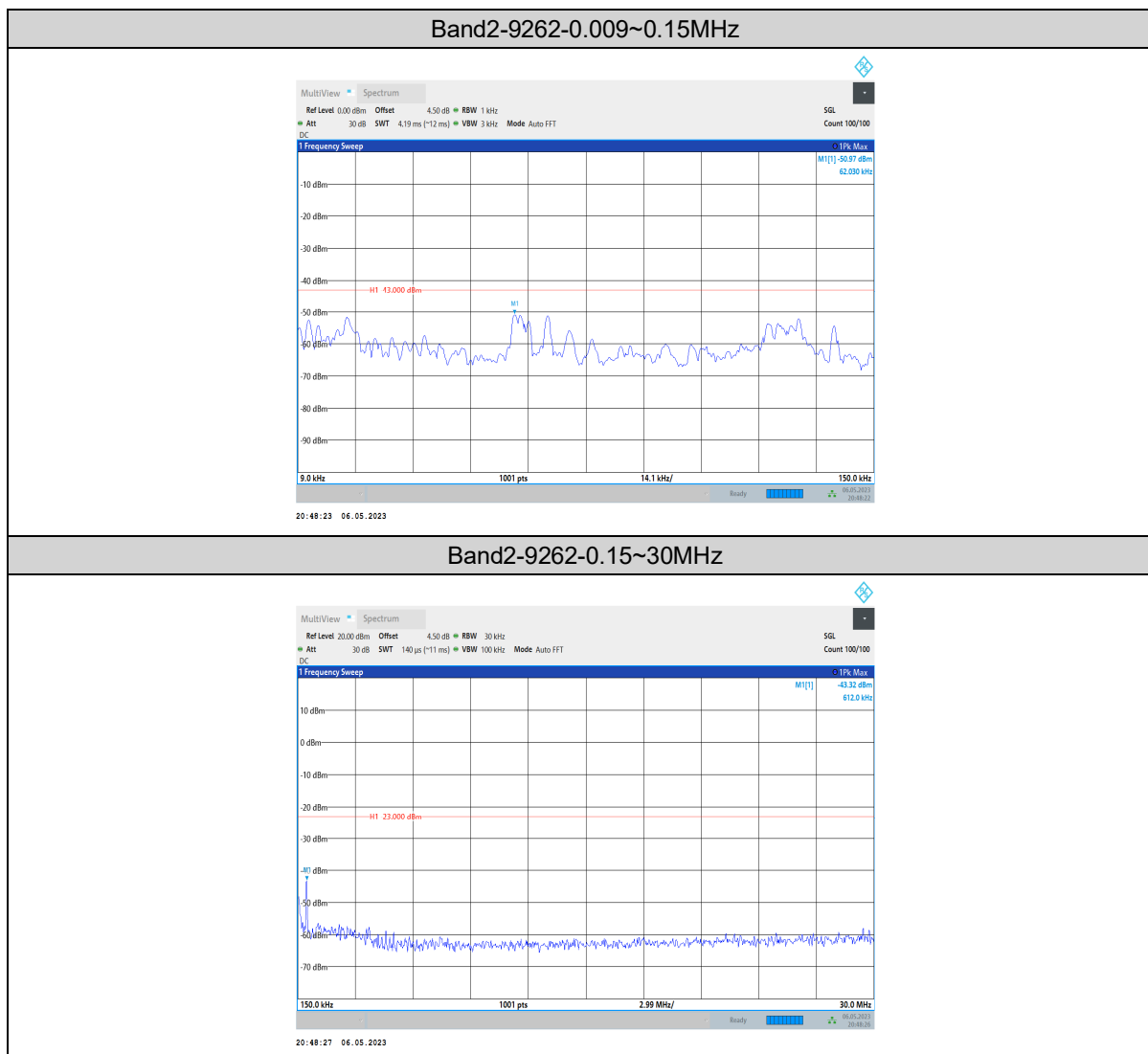
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Conducted Spurious Emission

Test Graphs



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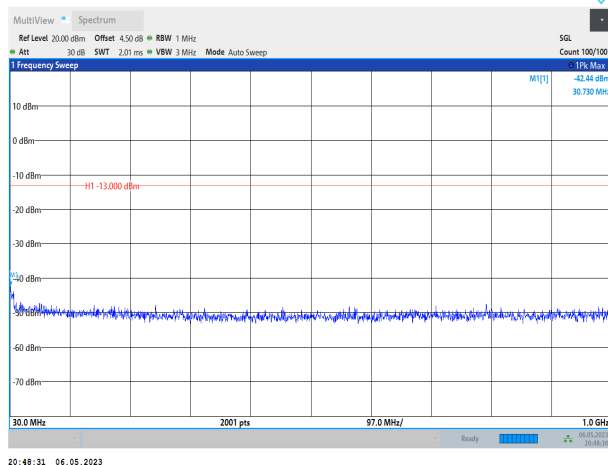
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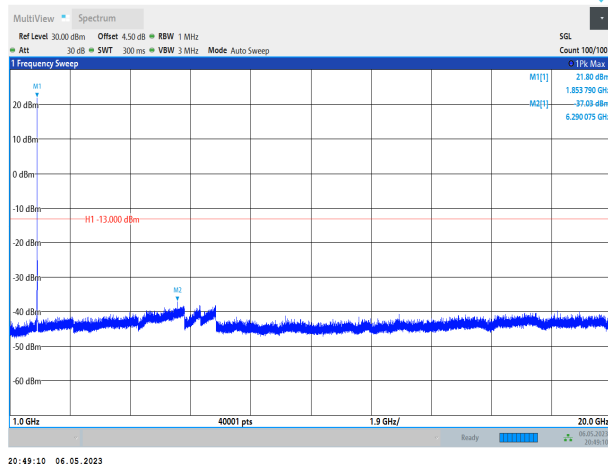
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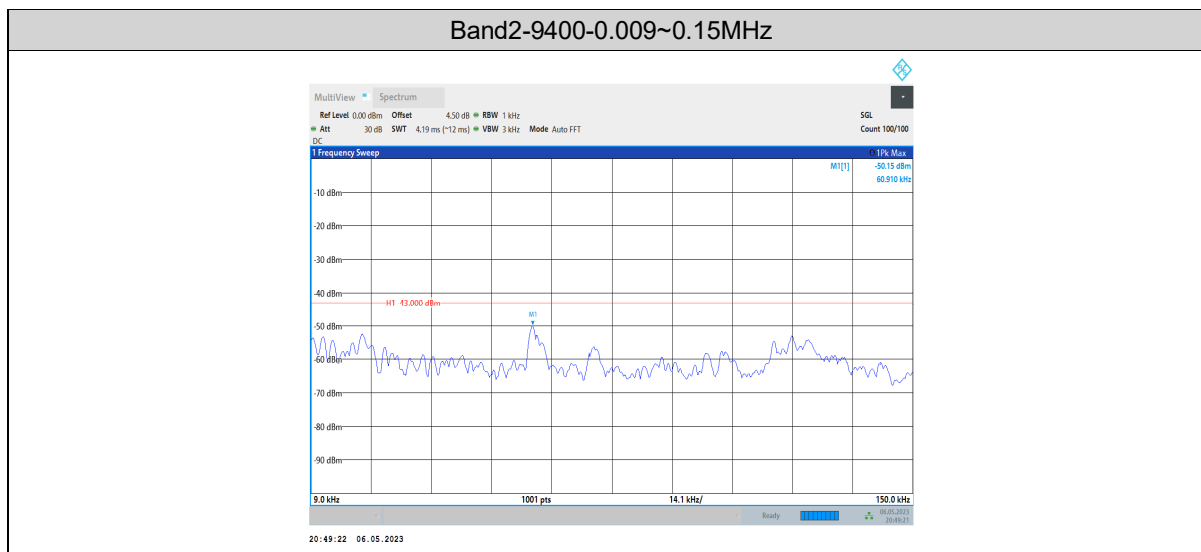
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Band2-9262-30~1000MHz



Band2-9262-1000~20000MHz





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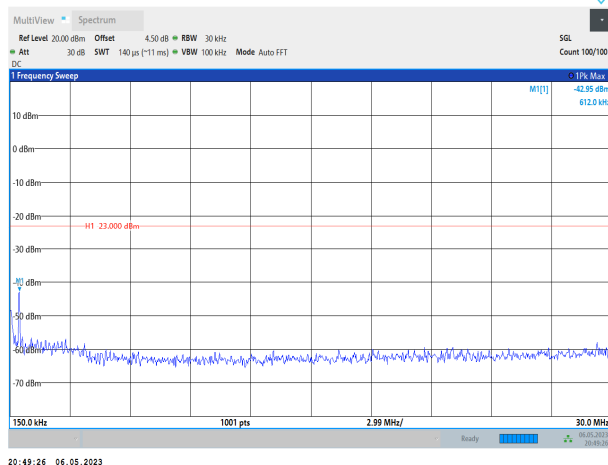
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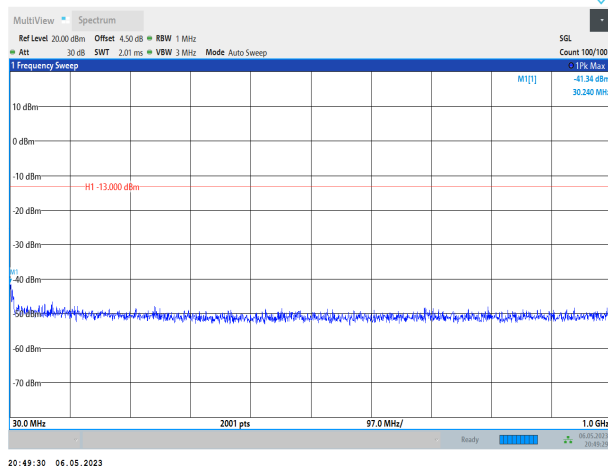
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Band2-9400-0.15~30MHz



Band2-9400-30~1000MHz



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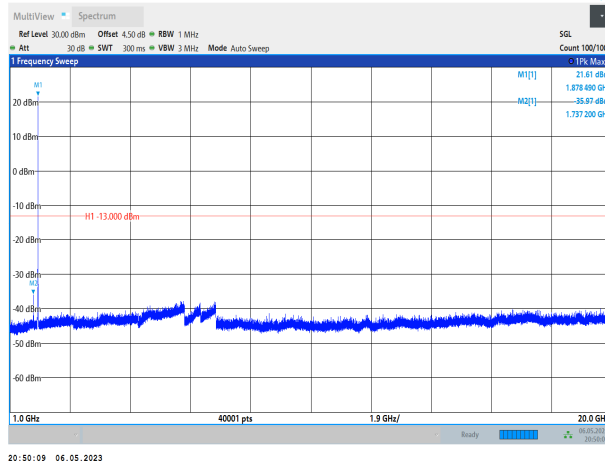


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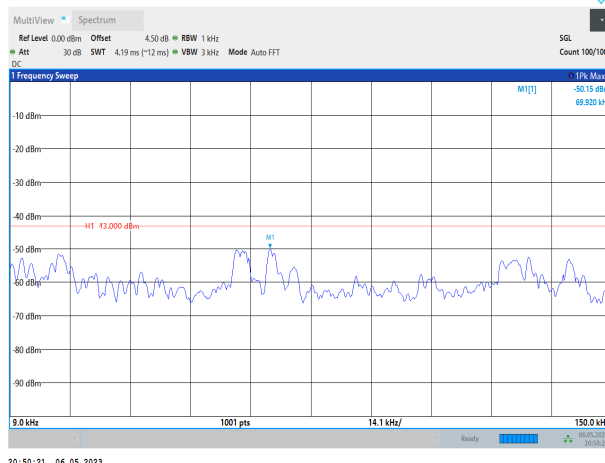
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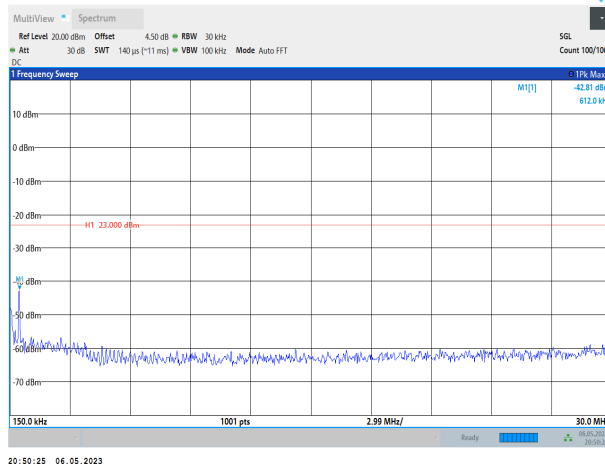
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Band2-9538-0.009~0.15MHz



Band2-9538-0.15~30MHz



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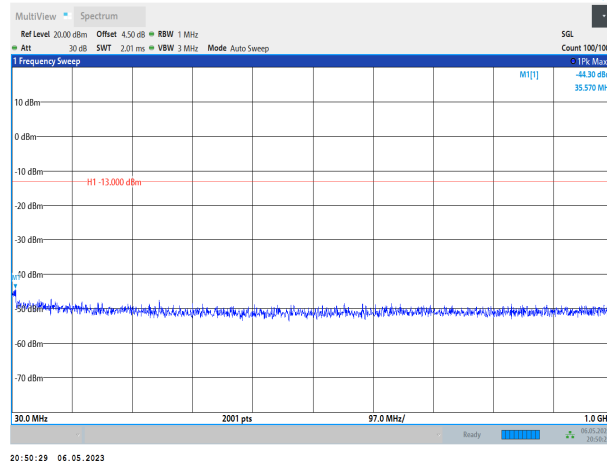


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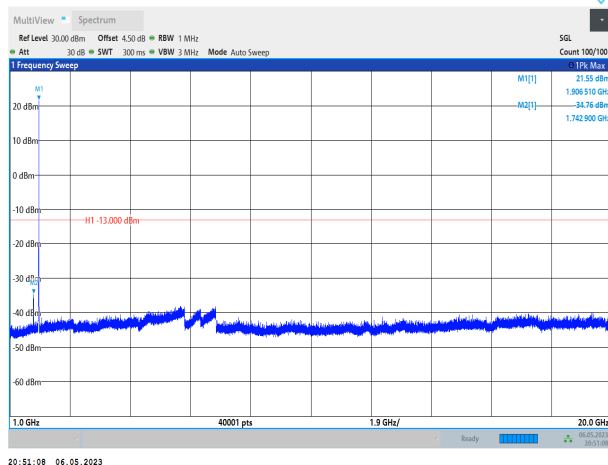
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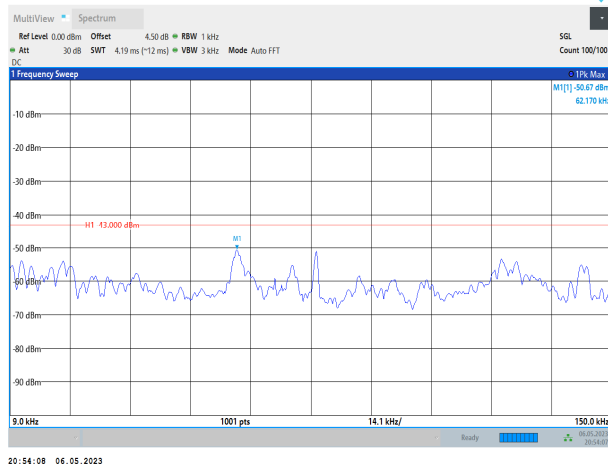
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Band2-9538-1000~20000MHz



Band4-1312-0.009~0.15MHz



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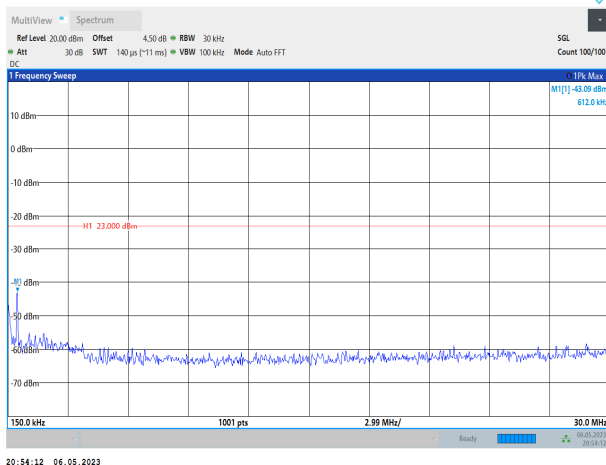
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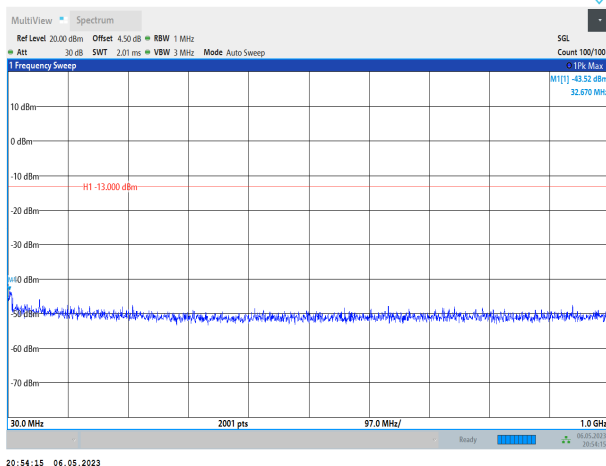
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Band4-1312-0.15~30MHz



Band4-1312-30~1000MHz



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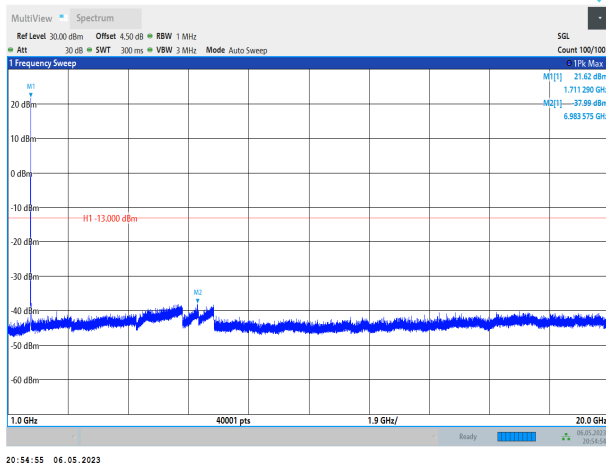
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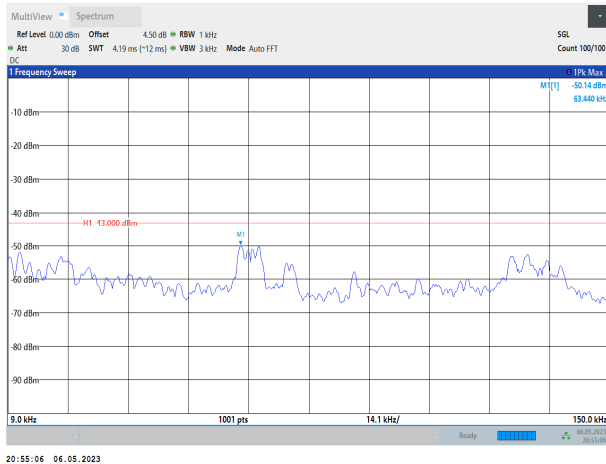
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Band4-1312-1000~20000MHz



Band4-1413-0.009~0.15MHz



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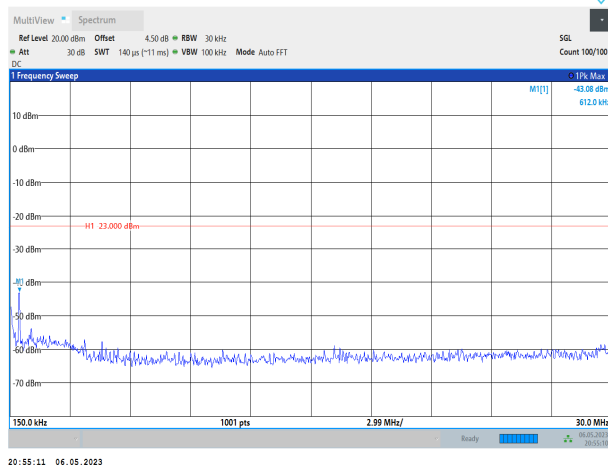
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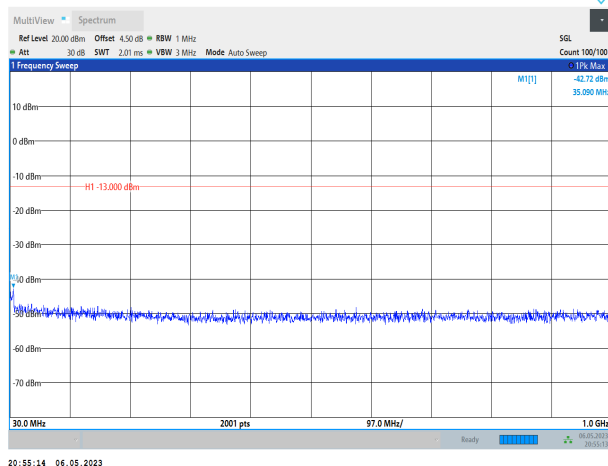
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Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz



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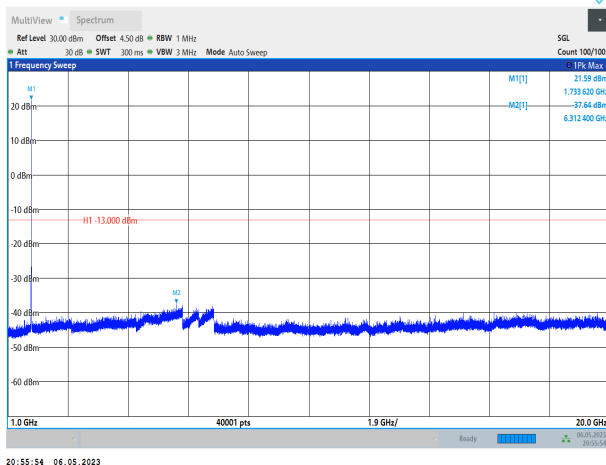
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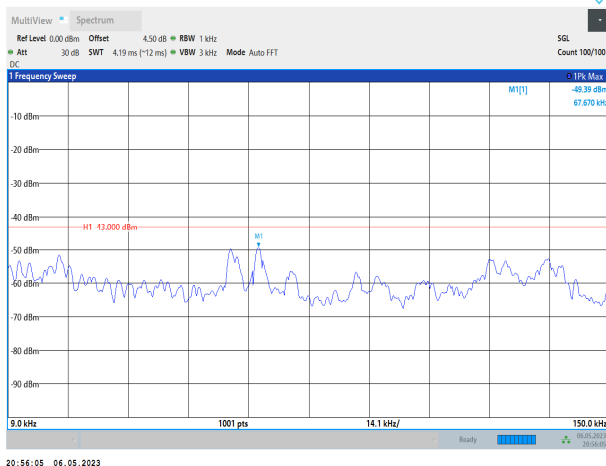
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Band4-1413-1000~20000MHz



Band4-1513-0.009~0.15MHz



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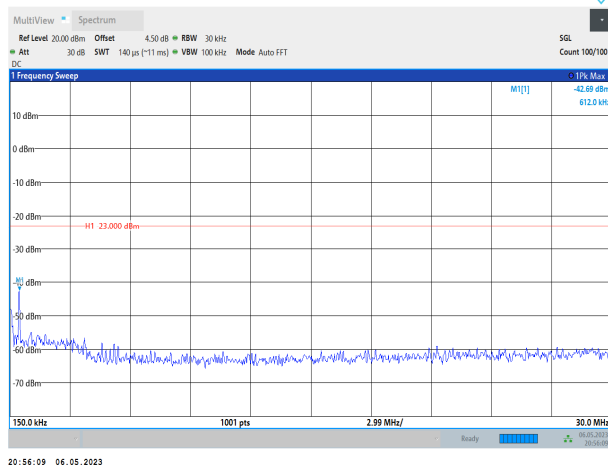
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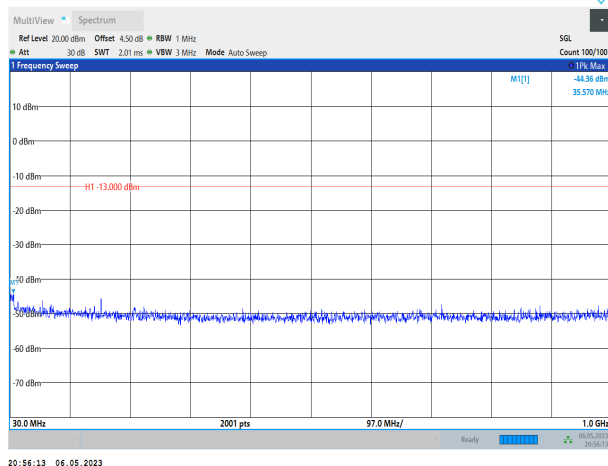
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Band4-1513-0.15~30MHz



Band4-1513-30~1000MHz



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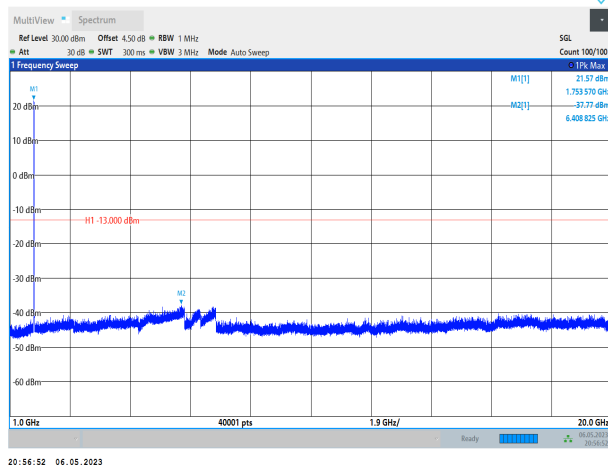
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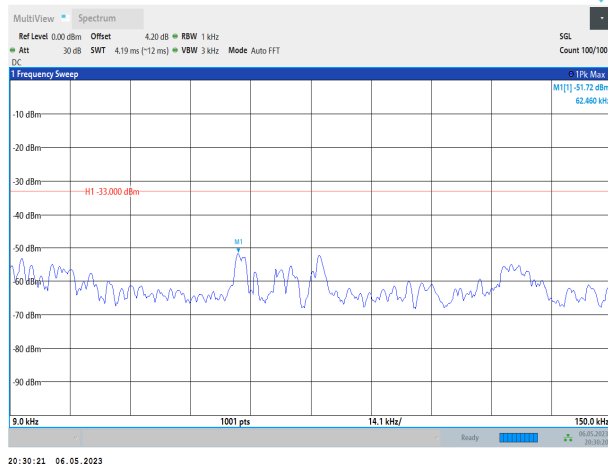
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Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz



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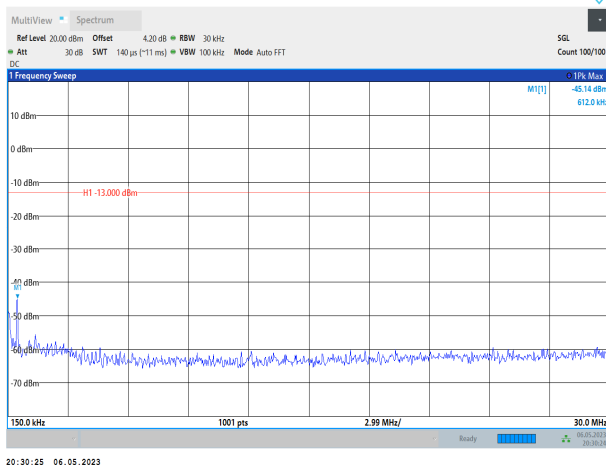
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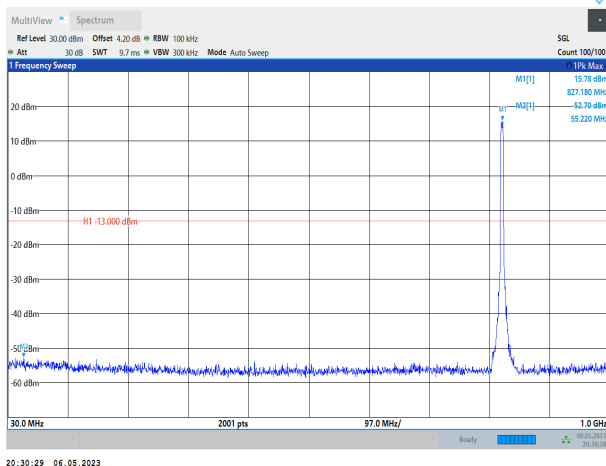
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Band5-4132-0.15~30MHz



Band5-4132-30~1000MHz



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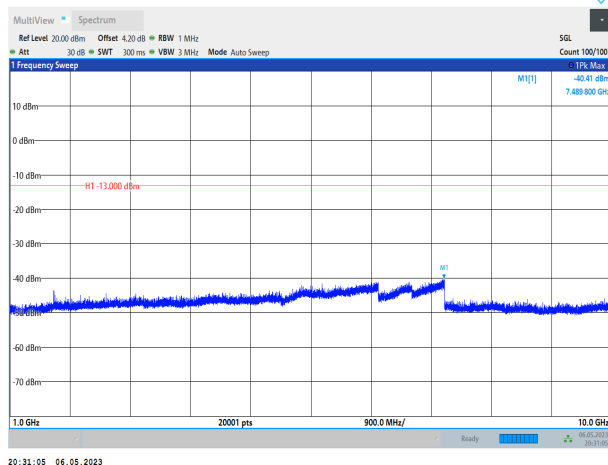
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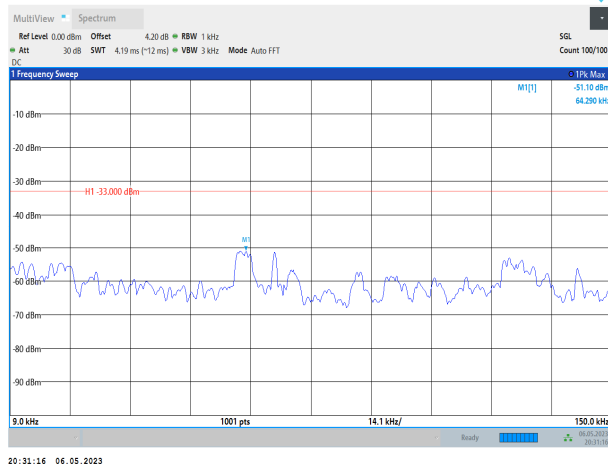
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Band5-4132-1000~10000MHz



Band5-4182-0.009~0.15MHz



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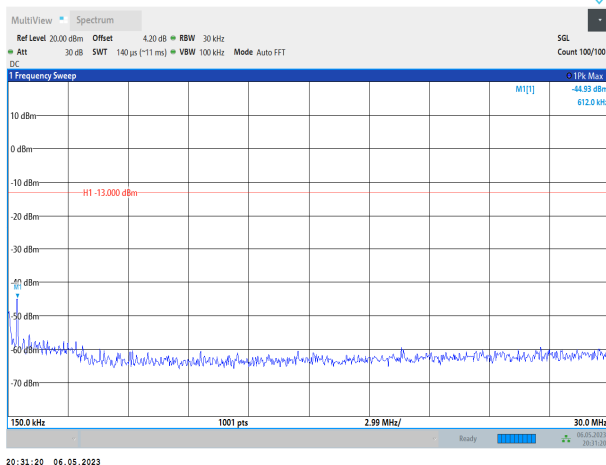
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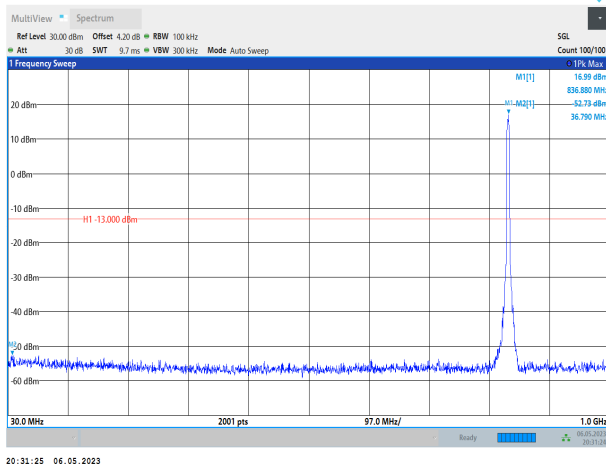
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Band5-4182-0.15~30MHz



Band5-4182-30~1000MHz



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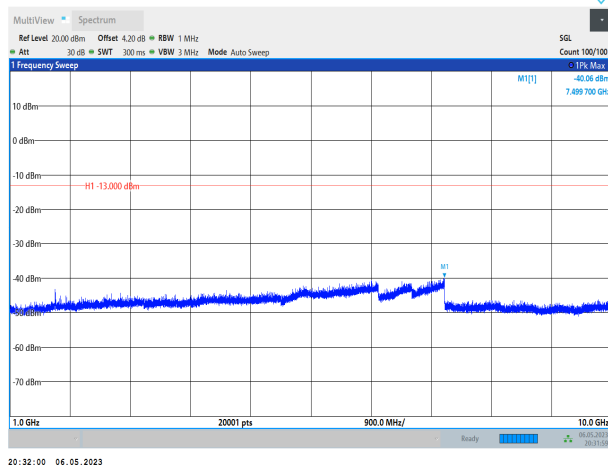
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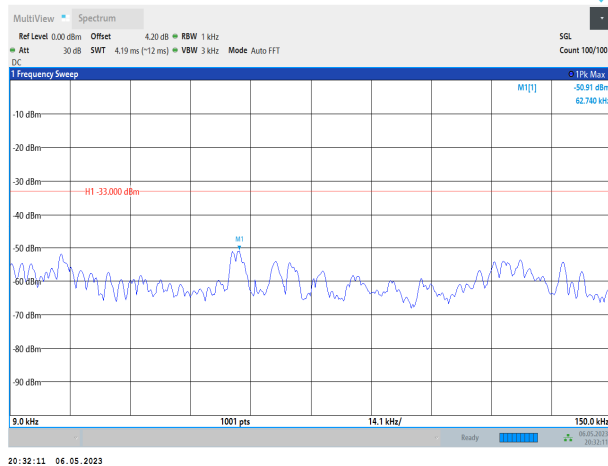
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Band5-4182-1000~10000MHz



Band5-4233-0.009~0.15MHz



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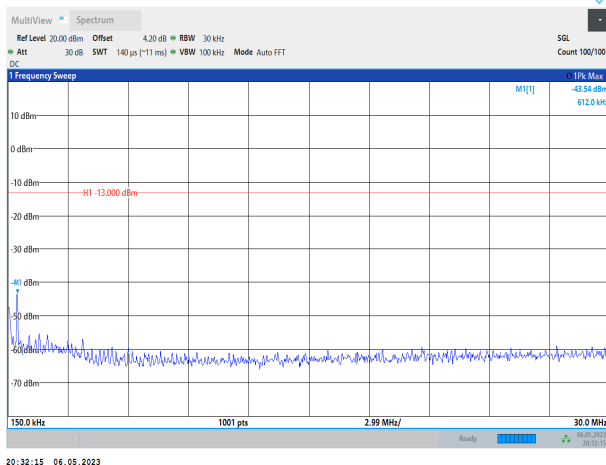
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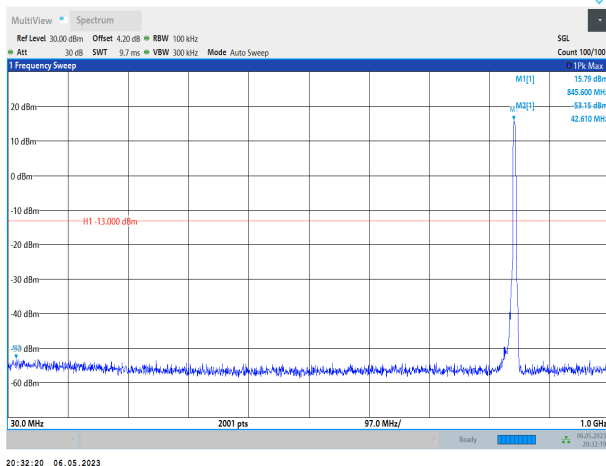
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Band5-4233-30~1000MHz



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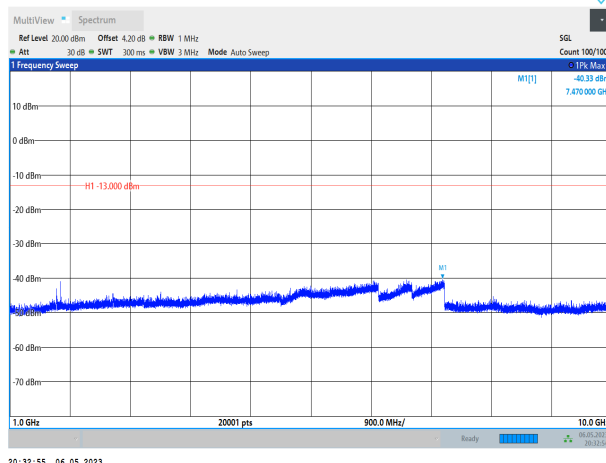
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Field Strength of Spurious Radiation

Test Band = WCDMA Band II_ TM1

Test Channel = Low ANT0

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	41.07	-45.52	29.99	-69.72	-13.00	56.72	154	104	Horizontal
2	4932.75	42.74	-45.57	32.69	-65.39	-13.00	52.39	126	240	Horizontal
3	5557.2000	40.46	-45.14	32.97	-66.97	-13.00	53.97	152	43	Horizontal
4	7409.6000	39.41	-43.38	36.49	-62.75	-13.00	49.75	136	195	Horizontal
5	9262.0000	35.27	-40.23	38.39	-61.83	-13.00	48.83	259	195	Horizontal
6	11114.4000	31.83	-37.88	39.09	-62.22	-13.00	49.22	195	300	Horizontal

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	40.90	-45.52	29.99	-69.89	-13.00	56.89	100	149	Vertical
2	4740	41.62	-45.58	32.14	-67.08	-13.00	54.08	136	209	Vertical
3	5557.2000	39.75	-45.14	32.97	-67.68	-13.00	54.68	251	4	Vertical
4	7409.6000	39.47	-43.38	36.49	-62.69	-13.00	49.69	188	299	Vertical
5	9262.0000	35.32	-40.23	38.39	-61.78	-13.00	48.78	174	30	Vertical
6	11114.4000	30.61	-37.88	39.09	-63.44	-13.00	50.44	185	44	Vertical



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Test Band = WCDMA Band II_ TM1

Test Channel = Mid ANT0

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	41.76	-45.75	30.19	-69.07	-13.00	56.07	126	209	Horizontal
2	4932	42.50	-45.57	32.69	-65.64	-13.00	52.64	135	209	Horizontal
3	5640.0000	39.54	-44.98	33.17	-67.54	-13.00	54.54	148	43	Horizontal
4	7520.0000	38.35	-43.10	36.43	-63.58	-13.00	50.58	185	252	Horizontal
5	9400.0000	35.36	-39.83	38.49	-61.24	-13.00	48.24	152	118	Horizontal
6	11280.0000	31.80	-37.41	39.11	-61.76	-13.00	48.76	163	118	Horizontal

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	40.51	-45.75	30.19	-70.32	-13.00	57.32	214	360	Vertical
2	4947.75	42.37	-45.58	32.73	-65.74	-13.00	52.74	156	239	Vertical
3	5640.0000	38.81	-44.98	33.17	-68.27	-13.00	55.27	136	14	Vertical
4	7520.0000	38.79	-43.10	36.43	-63.14	-13.00	50.14	256	135	Vertical
5	9400.0000	34.52	-39.83	38.49	-62.08	-13.00	49.08	128	179	Vertical
6	11280.0000	31.40	-37.41	39.11	-62.16	-13.00	49.16	145	360	Vertical



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Test Band = WCDMA Band II_ TM1

Test Channel = High ANT0

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	41.22	-45.97	30.37	-69.65	-13.00	56.65	215	271	Horizontal
2	4923	42.70	-45.56	32.66	-65.45	-13.00	52.45	142	179	Horizontal
3	5722.8000	39.83	-44.83	33.47	-66.79	-13.00	53.79	136	286	Horizontal
4	7630.0000	38.42	-42.99	36.45	-63.38	-13.00	50.38	256	196	Horizontal
5	9538.0000	33.81	-40.01	38.46	-63.01	-13.00	50.01	129	360	Horizontal
6	11445.6000	31.70	-37.34	39.06	-61.84	-13.00	48.84	188	196	Horizontal

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	40.80	-45.97	30.37	-70.07	-13.00	57.07	214	60	Vertical
2	4923.75	42.75	-45.56	32.67	-65.40	-13.00	52.40	128	180	Vertical
3	5722.8000	40.22	-44.83	33.47	-66.40	-13.00	53.40	148	75	Vertical
4	7630.0000	38.03	-42.99	36.45	-63.77	-13.00	50.77	175	359	Vertical
5	9538.0000	34.16	-40.01	38.46	-62.66	-13.00	49.66	156	270	Vertical
6	11445.6000	31.82	-37.34	39.06	-61.72	-13.00	48.72	136	359	Vertical



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Test Band = WCDMA Band IV_ TM1

Test Channel = Low ANT0

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	41.89	-46.27	29.45	-70.19	-13.00	57.19	255	344	Horizontal
2	4425	42.06	-45.79	31.54	-67.46	-13.00	54.46	148	166	Horizontal
3	5137.2000	39.81	-45.34	32.96	-67.83	-13.00	54.83	185	359	Horizontal
4	6849.6000	39.34	-44.14	35.90	-64.16	-13.00	51.16	196	357	Horizontal
5	8562.0000	36.47	-41.44	37.67	-62.56	-13.00	49.56	136	226	Horizontal
6	10274.4000	33.04	-39.19	38.83	-62.58	-13.00	49.58	254	209	Horizontal

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	40.95	-46.27	29.45	-71.13	-13.00	58.13	165	4	Vertical
2	5137.2000	39.89	-45.34	32.96	-67.75	-13.00	54.75	136	60	Vertical
3	5190.75	39.95	-45.29	32.98	-67.61	-13.00	54.61	251	360	Vertical
4	6849.6000	39.85	-44.14	35.90	-63.65	-13.00	50.65	145	46	Vertical
5	8562.0000	36.10	-41.44	37.67	-62.93	-13.00	49.93	185	105	Vertical
6	10274.4000	32.91	-39.19	38.83	-62.71	-13.00	49.71	196	358	Vertical



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Test Band = WCDMA Band IV_ TM1

Test Channel = Mid ANT0

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	41.71	-46.27	29.49	-70.33	-13.00	57.33	222	46	Horizontal
2	4473	41.92	-45.74	31.58	-67.50	-13.00	54.50	145	76	Horizontal
3	5197.8000	40.60	-45.28	32.99	-66.95	-13.00	53.95	136	271	Horizontal
4	6930.4000	39.49	-43.93	36.00	-63.70	-13.00	50.70	256	209	Horizontal
5	8663.0000	36.05	-41.56	37.85	-62.91	-13.00	49.91	199	240	Horizontal
6	10395.6000	32.72	-39.01	38.86	-62.69	-13.00	49.69	177	240	Horizontal

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	42.24	-46.27	29.49	-69.80	-13.00	56.80	211	4	Vertical
2	4385.25	42.22	-45.78	31.48	-67.34	-13.00	54.34	145	357	Vertical
3	5197.8000	40.59	-45.28	32.99	-66.96	-13.00	53.96	169	357	Vertical
4	6930.4000	39.07	-43.93	36.00	-64.12	-13.00	51.12	192	224	Vertical
5	8663.0000	37.10	-41.56	37.85	-61.86	-13.00	48.86	174	103	Vertical
6	10395.6000	32.53	-39.01	38.86	-62.88	-13.00	49.88	185	224	Vertical



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Test Band = WCDMA Band IV_ TM1
Test Channel = High ANT0

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	41.81	-46.25	29.52	-70.18	-13.00	57.18	214	192	Horizontal
2	4270.5	42.58	-45.61	31.24	-67.04	-13.00	54.04	122	360	Horizontal
3	5257.8000	39.72	-45.17	32.93	-67.77	-13.00	54.77	136	73	Horizontal
4	7010.4000	39.14	-43.62	36.11	-63.63	-13.00	50.63	215	343	Horizontal
5	8763.0000	35.87	-41.41	38.02	-62.78	-13.00	49.78	185	118	Horizontal
6	10515.6000	32.54	-38.75	38.98	-62.49	-13.00	49.49	174	192	Horizontal

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	41.59	-46.25	29.52	-70.40	-13.00	57.40	215	74	Vertical
2	4291.5	42.23	-45.56	31.29	-67.30	-13.00	54.30	136	342	Vertical
3	5257.8000	40.49	-45.17	32.93	-67.00	-13.00	54.00	211	43	Vertical
4	7010.4000	39.32	-43.62	36.11	-63.45	-13.00	50.45	148	148	Vertical
5	8763.0000	36.24	-41.41	38.02	-62.41	-13.00	49.41	175	43	Vertical
6	10515.6000	32.03	-38.75	38.98	-63.00	-13.00	50.00	196	329	Vertical



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Test Band = WCDMA Band V_ TM1

Test Channel = Low ANT0

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	43.50	-48.22	25.37	-74.60	-13.00	61.60	211	240	Horizontal
2	2479.2000	42.87	-47.31	27.70	-71.99	-13.00	58.99	142	0	Horizontal
3	2872	43.46	-46.67	28.79	-69.67	-13.00	56.67	153	4	Horizontal
4	3305.6000	42.63	-46.67	29.55	-69.75	-13.00	56.75	261	267	Horizontal
5	4132.0000	41.65	-45.92	31.00	-68.53	-13.00	55.53	199	95	Horizontal
6	4958.4000	41.42	-45.72	32.76	-66.79	-13.00	53.79	184	17	Horizontal

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	43.42	-48.22	25.37	-74.68	-13.00	61.68	211	360	Vertical
2	1995.4286	44.33	-47.91	26.61	-72.22	-13.00	59.22	136	359	Vertical
3	2479.2000	42.80	-47.31	27.70	-72.06	-13.00	59.06	215	355	Vertical
4	3305.6000	42.13	-46.67	29.55	-70.25	-13.00	57.25	148	264	Vertical
5	4132.0000	41.46	-45.92	31.00	-68.72	-13.00	55.72	186	264	Vertical
6	4958.4000	41.88	-45.72	32.76	-66.33	-13.00	53.33	129	305	Vertical



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Test Band = WCDMA Band V_ TM1
Test Channel = Mid ANT0
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	43.13	-48.19	25.38	-74.94	-13.00	61.94	256	281	Horizontal
2	2166.8571	44.16	-47.69	27.22	-71.57	-13.00	58.57	142	123	Horizontal
3	2509.2000	42.83	-47.24	27.80	-71.86	-13.00	58.86	188	135	Horizontal
4	3345.6000	42.54	-46.62	29.50	-69.84	-13.00	56.84	196	29	Horizontal
5	4182.0000	40.78	-45.95	31.07	-69.36	-13.00	56.36	185	18	Horizontal
6	5018.4000	40.44	-45.73	32.89	-67.66	-13.00	54.66	175	0	Horizontal

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1429	44.94	-48.04	25.60	-72.76	-13.00	59.76	214	171	Vertical
2	1672.8000	43.57	-48.19	25.38	-74.50	-13.00	61.50	136	4	Vertical
3	2509.2000	43.57	-47.24	27.80	-71.12	-13.00	58.12	256	316	Vertical
4	3345.6000	43.40	-46.62	29.50	-68.98	-13.00	55.98	184	359	Vertical
5	4182.0000	40.76	-45.95	31.07	-69.38	-13.00	56.38	175	289	Vertical
6	5018.4000	40.61	-45.73	32.89	-67.49	-13.00	54.49	199	359	Vertical



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Test Band = WCDMA Band V_ TM1

Test Channel = High ANT0

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	43.80	-48.17	25.39	-74.24	-13.00	61.24	211	31	Horizontal
2	2539.8000	42.44	-47.13	27.90	-72.05	-13.00	59.05	136	5	Horizontal
3	3386.4000	42.39	-46.56	29.45	-69.98	-13.00	56.98	256	336	Horizontal
4	4233.0000	41.11	-45.90	31.17	-68.88	-13.00	55.88	142	349	Horizontal
5	5079.6000	40.75	-45.47	32.92	-67.05	-13.00	54.05	188	205	Horizontal
6	6723.4286	41.11	-44.07	35.69	-62.54	-13.00	49.54	196	2	Horizontal

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	43.55	-48.17	25.39	-74.49	-13.00	61.49	213	360	Vertical
2	1930.2857	44.21	-48.00	26.22	-72.84	-13.00	59.84	215	4	Vertical
3	2539.8000	42.95	-47.13	27.90	-71.54	-13.00	58.54	147	78	Vertical
4	3386.4000	42.30	-46.56	29.45	-70.07	-13.00	57.07	185	263	Vertical
5	4233.0000	41.50	-45.90	31.17	-68.49	-13.00	55.49	196	172	Vertical
6	5079.6000	40.34	-45.47	32.92	-67.46	-13.00	54.46	155	358	Vertical



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Test Band = WCDMA Band II_ TM1

Test Channel = Low ANT4

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	41.51	-45.52	29.99	-69.28	-13.00	56.28	145	179	Horizontal
2	4560.75	42.99	-45.69	31.67	-66.28	-13.00	53.28	126	210	Horizontal
3	5557.2000	40.17	-45.14	32.97	-67.26	-13.00	54.26	135	357	Horizontal
4	7409.6000	40.48	-43.38	36.49	-61.68	-13.00	48.68	188	330	Horizontal
5	9262.0000	37.01	-40.23	38.39	-60.09	-13.00	47.09	196	150	Horizontal
6	11114.4000	34.75	-37.88	39.09	-59.30	-13.00	46.30	188	210	Horizontal

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	41.10	-45.52	29.99	-69.69	-13.00	56.69	284	61	Vertical
2	4840.5	42.26	-45.54	32.43	-66.10	-13.00	53.10	174	4	Vertical
3	5557.2000	40.85	-45.14	32.97	-66.58	-13.00	53.58	156	210	Vertical
4	7409.6000	40.88	-43.38	36.49	-61.28	-13.00	48.28	192	61	Vertical
5	9262.0000	37.53	-40.23	38.39	-59.57	-13.00	46.57	142	179	Vertical
6	11114.4000	34.22	-37.88	39.09	-59.83	-13.00	46.83	156	360	Vertical



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Test Band = WCDMA Band II_ TM1

Test Channel = Mid ANT4

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	42.20	-45.75	30.19	-68.63	-13.00	55.63	254	253	Horizontal
2	4921.5	42.94	-45.55	32.66	-65.21	-13.00	52.21	155	44	Horizontal
3	5640.0000	39.99	-44.98	33.17	-67.09	-13.00	54.09	136	134	Horizontal
4	7520.0000	39.96	-43.10	36.43	-61.97	-13.00	48.97	259	44	Horizontal
5	9400.0000	37.48	-39.83	38.49	-59.12	-13.00	46.12	191	88	Horizontal
6	11280.0000	34.17	-37.41	39.11	-59.39	-13.00	46.39	148	360	Horizontal

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	41.43	-45.75	30.19	-69.40	-13.00	56.40	255	59	Vertical
2	4611.75	43.70	-45.66	31.75	-65.48	-13.00	52.48	147	16	Vertical
3	5640.0000	40.64	-44.98	33.17	-66.44	-13.00	53.44	184	358	Vertical
4	7520.0000	38.96	-43.10	36.43	-62.97	-13.00	49.97	186	344	Vertical
5	9400.0000	36.97	-39.83	38.49	-59.63	-13.00	46.63	153	344	Vertical
6	11280.0000	35.40	-37.41	39.11	-58.16	-13.00	45.16	162	225	Vertical



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Test Band = WCDMA Band II_ TM1

Test Channel = High ANT4

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	41.94	-45.97	30.37	-68.93	-13.00	55.93	187	209	Horizontal
2	4419	42.56	-45.80	31.53	-66.97	-13.00	53.97	198	178	Horizontal
3	5722.8000	40.39	-44.83	33.47	-66.23	-13.00	53.23	148	3	Horizontal
4	7630.0000	38.89	-42.99	36.45	-62.91	-13.00	49.91	175	357	Horizontal
5	9538.0000	34.95	-40.01	38.46	-61.87	-13.00	48.87	146	239	Horizontal
6	11445.6000	34.15	-37.34	39.06	-59.39	-13.00	46.39	132	224	Horizontal

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	41.63	-45.97	30.37	-69.24	-13.00	56.24	165	352	Vertical
2	4926.75	43.45	-45.56	32.67	-64.69	-13.00	51.69	155	253	Vertical
3	5722.8000	40.23	-44.83	33.47	-66.39	-13.00	53.39	142	329	Vertical
4	7630.0000	38.09	-42.99	36.45	-63.71	-13.00	50.71	129	194	Vertical
5	9538.0000	35.32	-40.01	38.46	-61.50	-13.00	48.50	182	3	Vertical
6	11445.6000	34.82	-37.34	39.06	-58.72	-13.00	45.72	130	360	Vertical



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Test Band = WCDMA Band IV_ TM1

Test Channel = Low ANT4

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	42.64	-46.27	29.45	-69.44	-13.00	56.44	245	253	Horizontal
2	4266	42.20	-45.62	31.24	-67.44	-13.00	54.44	126	74	Horizontal
3	5137.2000	40.35	-45.34	32.96	-67.29	-13.00	54.29	153	59	Horizontal
4	6849.6000	40.34	-44.14	35.90	-63.16	-13.00	50.16	265	352	Horizontal
5	8562.0000	37.57	-41.44	37.67	-61.46	-13.00	48.46	158	163	Horizontal
6	10274.4000	34.50	-39.19	38.83	-61.12	-13.00	48.12	192	88	Horizontal

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	42.52	-46.27	29.45	-69.56	-13.00	56.56	211	270	Vertical
2	4249.5	42.09	-45.66	31.20	-67.62	-13.00	54.62	145	121	Vertical
3	5137.2000	40.06	-45.34	32.96	-67.58	-13.00	54.58	184	44	Vertical
4	6849.6000	40.66	-44.14	35.90	-62.84	-13.00	49.84	175	270	Vertical
5	8562.0000	37.02	-41.44	37.67	-62.01	-13.00	49.01	142	29	Vertical
6	10274.4000	35.12	-39.19	38.83	-60.50	-13.00	47.50	169	135	Vertical



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Test Band = WCDMA Band IV_ TM1

Test Channel = Mid ANT4

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	42.38	-46.27	29.49	-69.66	-13.00	56.66	211	30	Horizontal
2	4432.5	42.79	-45.78	31.54	-66.71	-13.00	53.71	145	87	Horizontal
3	5197.8000	40.83	-45.28	32.99	-66.72	-13.00	53.72	184	226	Horizontal
4	6930.4000	39.48	-43.93	36.00	-63.71	-13.00	50.71	126	209	Horizontal
5	8663.0000	37.63	-41.56	37.85	-61.33	-13.00	48.33	165	104	Horizontal
6	10395.6000	34.22	-39.01	38.86	-61.19	-13.00	48.19	152	133	Horizontal

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	42.71	-46.27	29.49	-69.33	-13.00	56.33	211	149	Vertical
2	4431.75	43.12	-45.79	31.54	-66.38	-13.00	53.38	136	299	Vertical
3	5197.8000	41.04	-45.28	32.99	-66.51	-13.00	53.51	251	343	Vertical
4	6930.4000	39.56	-43.93	36.00	-63.63	-13.00	50.63	148	118	Vertical
5	8663.0000	38.19	-41.56	37.85	-60.77	-13.00	47.77	175	359	Vertical
6	10395.6000	34.30	-39.01	38.86	-61.11	-13.00	48.11	126	135	Vertical



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Test Band = WCDMA Band IV_ TM1

Test Channel = High ANT4

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	43.17	-46.25	29.52	-68.82	-13.00	55.82	211	270	Horizontal
2	4476.75	42.69	-45.74	31.59	-66.72	-13.00	53.72	142	44	Horizontal
3	5257.8000	40.98	-45.17	32.93	-66.51	-13.00	53.51	185	90	Horizontal
4	7010.4000	39.83	-43.62	36.11	-62.94	-13.00	49.94	126	352	Horizontal
5	8763.0000	37.67	-41.41	38.02	-60.98	-13.00	47.98	192	3	Horizontal
6	10515.6000	34.34	-38.75	38.98	-60.69	-13.00	47.69	147	118	Horizontal

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	43.03	-46.25	29.52	-68.96	-13.00	55.96	211	194	Vertical
2	4572	42.61	-45.68	31.68	-66.65	-13.00	53.65	136	298	Vertical
3	5257.8000	41.44	-45.17	32.93	-66.05	-13.00	53.05	256	359	Vertical
4	7010.4000	40.34	-43.62	36.11	-62.43	-13.00	49.43	145	3	Vertical
5	8763.0000	37.07	-41.41	38.02	-61.58	-13.00	48.58	182	352	Vertical
6	10515.6000	34.62	-38.75	38.98	-60.41	-13.00	47.41	199	225	Vertical



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Test Band = WCDMA Band V_ TM1

Test Channel = Low ANT4

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	45.14	-48.22	25.37	-72.96	-13.00	59.96	211	30	Horizontal
2	2479.2000	43.24	-47.31	27.70	-71.62	-13.00	58.62	154	163	Horizontal
3	3305.6000	43.40	-46.67	29.55	-68.98	-13.00	55.98	174	242	Horizontal
4	4132.0000	41.87	-45.92	31.00	-68.31	-13.00	55.31	185	5	Horizontal
5	4958.4000	42.32	-45.72	32.76	-65.89	-13.00	52.89	126	30	Horizontal
6	6318.2857	41.47	-44.63	34.45	-63.98	-13.00	50.98	136	83	Horizontal

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	44.25	-48.22	25.37	-73.85	-13.00	60.85	284	78	Vertical
2	2479.2000	43.22	-47.31	27.70	-71.64	-13.00	58.64	174	225	Vertical
3	3305.6000	43.08	-46.67	29.55	-69.30	-13.00	56.30	156	316	Vertical
4	4132.0000	41.14	-45.92	31.00	-69.04	-13.00	56.04	126	350	Vertical
5	4958.4000	42.17	-45.72	32.76	-66.04	-13.00	53.04	291	145	Vertical
6	6996	41.35	-43.59	36.08	-61.43	-13.00	48.43	174	330	Vertical



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Test Band = WCDMA Band V_ TM1

Test Channel = Mid ANT4

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	43.61	-48.19	25.38	-74.46	-13.00	61.46	211	357	Horizontal
2	2509.2000	43.86	-47.24	27.80	-70.83	-13.00	57.83	147	320	Horizontal
3	3345.6000	42.86	-46.62	29.50	-69.52	-13.00	56.52	184	201	Horizontal
4	4182.0000	41.81	-45.95	31.07	-68.33	-13.00	55.33	185	294	Horizontal
5	5018.4000	40.78	-45.73	32.89	-67.32	-13.00	54.32	196	307	Horizontal
6	5858.8571	41.67	-44.84	33.86	-64.57	-13.00	51.57	132	68	Horizontal

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	43.59	-48.19	25.38	-74.48	-13.00	61.48	211	351	Vertical
2	2509.2000	43.73	-47.24	27.80	-70.96	-13.00	57.96	142	40	Vertical
3	3345.6000	42.83	-46.62	29.50	-69.55	-13.00	56.55	126	351	Vertical
4	4182.0000	40.95	-45.95	31.07	-69.19	-13.00	56.19	188	351	Vertical
5	5018.4000	41.51	-45.73	32.89	-66.59	-13.00	53.59	135	120	Vertical
6	7236.5714	40.90	-43.72	36.58	-61.50	-13.00	48.50	196	80	Vertical



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Test Band = WCDMA Band V_ TM1

Test Channel = High ANT4

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	43.93	-48.17	25.39	-74.11	-13.00	61.11	211	335	Horizontal
2	2539.8000	43.14	-47.13	27.90	-71.35	-13.00	58.35	147	110	Horizontal
3	3386.4000	42.39	-46.56	29.45	-69.98	-13.00	56.98	184	357	Horizontal
4	4233.0000	41.35	-45.90	31.17	-68.64	-13.00	55.64	156	163	Horizontal
5	5079.6000	40.52	-45.47	32.92	-67.28	-13.00	54.28	129	150	Horizontal
6	6498.8571	41.82	-44.65	35.03	-63.07	-13.00	50.07	187	228	Horizontal

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	44.13	-48.17	25.39	-73.91	-13.00	60.91	211	250	Vertical
2	2539.8000	43.40	-47.13	27.90	-71.09	-13.00	58.09	146	236	Vertical
3	3386.4000	43.24	-46.56	29.45	-69.13	-13.00	56.13	188	224	Vertical
4	4233.0000	41.54	-45.90	31.17	-68.45	-13.00	55.45	174	132	Vertical
5	5079.6000	41.44	-45.47	32.92	-66.36	-13.00	53.36	153	276	Vertical
6	7405.7143	41.47	-43.27	36.49	-60.57	-13.00	47.57	129	262	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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Test on the worst case:
Test Band = WCDMA Band II_ 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	4092	42.68	-45.78	30.94	-67.42	-13.00	54.42	241	344	Horizontal
2	4824	41.83	-45.54	32.39	-66.58	-13.00	53.58	126	356	Horizontal
3	5517.75	41.82	-45.21	32.93	-65.72	-13.00	52.72	255	7	Horizontal
4	6019.5	41.56	-44.76	34.14	-64.32	-13.00	51.32	136	254	Horizontal
5	8404.5	38.53	-41.46	37.34	-60.85	-13.00	47.85	259	283	Horizontal
6	12792.75	29.06	-36.82	39.62	-63.40	-13.00	50.40	188	134	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4017	43.53	-45.99	30.83	-66.90	-13.00	53.90	241	360	Vertical
2	4947.75	43.02	-45.58	32.73	-65.09	-13.00	52.09	148	360	Vertical
3	5955	41.66	-44.89	34.04	-64.45	-13.00	51.45	178	121	Vertical
4	7006.5	41.03	-43.59	36.10	-61.73	-13.00	48.73	189	301	Vertical
5	8997	36.85	-41.01	38.20	-61.22	-13.00	48.22	158	360	Vertical
6	10710.75	31.49	-37.96	39.15	-62.58	-13.00	49.58	196	360	Vertical





Test Band = WCDMA Band II_ 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	4266.75	42.97	-45.62	31.24	-66.67	-13.00	53.67	248	76	Horizontal
2	5035.5	42.62	-45.54	32.90	-65.28	-13.00	52.28	159	3	Horizontal
3	6013.5	41.53	-44.78	34.13	-64.37	-13.00	51.37	184	270	Horizontal
4	6771	41.06	-44.07	35.78	-62.48	-13.00	49.48	175	301	Horizontal
5	8337	37.99	-41.80	37.25	-61.82	-13.00	48.82	163	135	Horizontal
6	10707	31.95	-37.93	39.15	-62.10	-13.00	49.10	258	0	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4078.5	42.55	-45.82	30.92	-67.61	-13.00	54.61	248	59	Vertical
2	4931.25	42.90	-45.56	32.69	-65.24	-13.00	52.24	155	133	Vertical
3	5683.5	41.28	-44.89	33.32	-65.54	-13.00	52.54	128	360	Vertical
4	6255	41.11	-44.64	34.32	-64.47	-13.00	51.47	175	353	Vertical
5	7617.75	39.80	-42.96	36.42	-62.00	-13.00	49.00	142	360	Vertical
6	9426.75	35.58	-39.94	38.48	-61.13	-13.00	48.13	163	270	Vertical



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Test Band = WCDMA Band II_ 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	4920	42.92	-45.55	32.66	-65.24	-13.00	52.24	211	301	Horizontal
2	6048.75	41.51	-44.64	34.15	-64.25	-13.00	51.25	125	8	Horizontal
3	6774.75	41.56	-44.08	35.79	-61.99	-13.00	48.99	140	357	Horizontal
4	8043.75	38.98	-41.92	37.03	-61.17	-13.00	48.17	186	30	Horizontal
5	9369	35.95	-39.95	38.47	-60.79	-13.00	47.79	219	8	Horizontal
6	10709.25	32.79	-37.95	39.15	-61.27	-13.00	48.27	180	1	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4240.5	42.61	-45.68	31.18	-67.14	-13.00	54.14	244	180	Vertical
2	4937.25	42.77	-45.57	32.70	-65.36	-13.00	52.36	126	45	Vertical
3	6045.75	41.56	-44.66	34.15	-64.21	-13.00	51.21	259	196	Vertical
4	6994.5	40.79	-43.58	36.07	-61.98	-13.00	48.98	199	227	Vertical
5	8406.75	39.24	-41.46	37.34	-60.14	-13.00	47.14	186	75	Vertical
6	10086	34.30	-39.14	38.63	-61.47	-13.00	48.47	130	316	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



Frequency Stability

Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9400	VL	NT	-4.68	-0.002489	PASS
Band2	9400	VN	NT	-8.84	-0.004702	PASS
Band2	9400	VH	NT	-6.86	-0.003649	PASS
Band4	1413	VL	NT	-12.83	-0.007405	PASS
Band4	1413	VN	NT	-10.86	-0.006268	PASS
Band4	1413	VH	NT	-14.81	-0.008548	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	VL	NT	-2.85	-0.003407	±2.5	PASS
Band5	4182	VN	NT	-7.92	-0.009469	±2.5	PASS
Band5	4182	VH	NT	-4.56	-0.005452	±2.5	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9400	NV	-30	-6.57	-0.003495	PASS
Band2	9400	NV	-20	-10.37	-0.005516	PASS
Band2	9400	NV	0	-8.49	-0.004516	PASS
Band2	9400	NV	10	-13.76	-0.007319	PASS
Band2	9400	NV	20	-13.70	-0.007287	PASS
Band2	9400	NV	30	-11.06	-0.005883	PASS
Band2	9400	NV	40	-11.96	-0.006362	PASS
Band2	9400	NV	50	-13.96	-0.007426	PASS
Band4	1413	NV	-30	-11.10	-0.006407	PASS
Band4	1413	NV	-20	-11.81	-0.006816	PASS
Band4	1413	NV	0	-12.31	-0.007105	PASS
Band4	1413	NV	10	-14.40	-0.008311	PASS
Band4	1413	NV	20	-8.89	-0.005131	PASS
Band4	1413	NV	30	-9.17	-0.005293	PASS
Band4	1413	NV	40	-7.46	-0.004306	PASS
Band4	1413	NV	50	-6.82	-0.003936	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	NV	-30	-10.18	-0.012171	±2.5	PASS
Band5	4182	NV	-20	-8.03	-0.009601	±2.5	PASS
Band5	4182	NV	0	-6.63	-0.007927	±2.5	PASS
Band5	4182	NV	10	-5.79	-0.006923	±2.5	PASS
Band5	4182	NV	20	-5.67	-0.006779	±2.5	PASS
Band5	4182	NV	30	-3.41	-0.004077	±2.5	PASS
Band5	4182	NV	40	-3.38	-0.004041	±2.5	PASS
Band5	4182	NV	50	-2.84	-0.003396	±2.5	PASS

---End of Attachment---



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