



Report No.: SEWM2209000168RG01

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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	Limit(dBm)	Verdict
BandII	9262	23.25	19.96	33.01	PASS
BandII	9400	23.15	19.86	33.01	PASS
BandII	9538	23.14	19.85	33.01	PASS
BandIV	1312	23.37	21.64	30.00	PASS
BandIV	1413	23.49	21.76	30.00	PASS
BandIV	1513	23.50	21.77	30.00	PASS
Band	Channel	Power(dBm)	ERP	Limit(dBm)	Verdict
BandV	4132	24.36	12.54	38.45	PASS
BandV	4182	24.36	12.54	38.45	PASS
BandV	4233	24.17	12.35	38.45	PASS

#### ANT1:

Band	Channel	Power(dBm)	ERP	Limit(dBm)	Verdict
BandV	4132	23.64	14.69	38.45	PASS
BandV	4182	23.66	14.71	38.45	PASS
BandV	4233	23.63	14.68	38.45	PASS



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### Peak-to-Average Ratio

#### Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
BandII	9262	2.96	13	PASS
BandII	9400	2.92	13	PASS
BandII	9538	2.86	13	PASS
BandIV	1312	2.82	13	PASS
BandIV	1413	2.72	13	PASS
BandIV	1513	2.9	13	PASS
BandV	4132	3.22	13	PASS
BandV	4182	3.18	13	PASS
BandV	4233	3.12	13	PASS



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Test Graphs

BandII-9262



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BandII-9400



14:35:31 01.10.2022



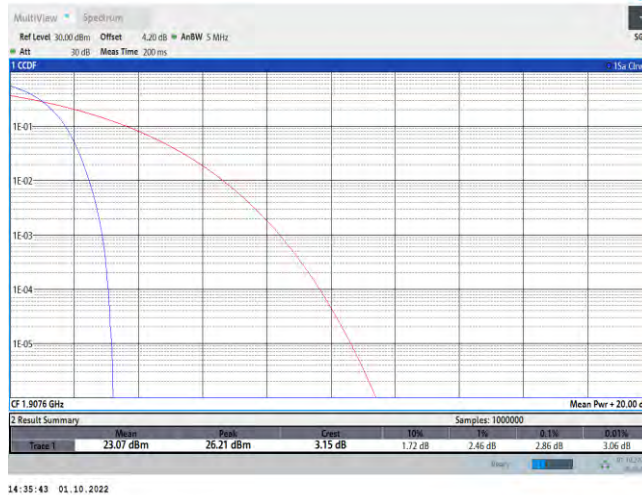
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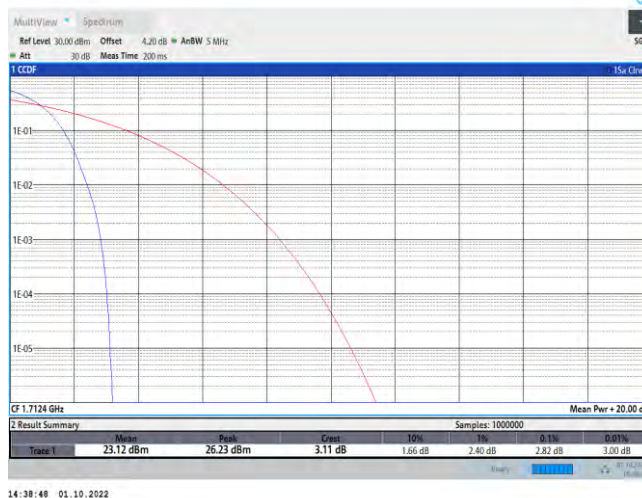
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BandII-9538



BandIV-1312



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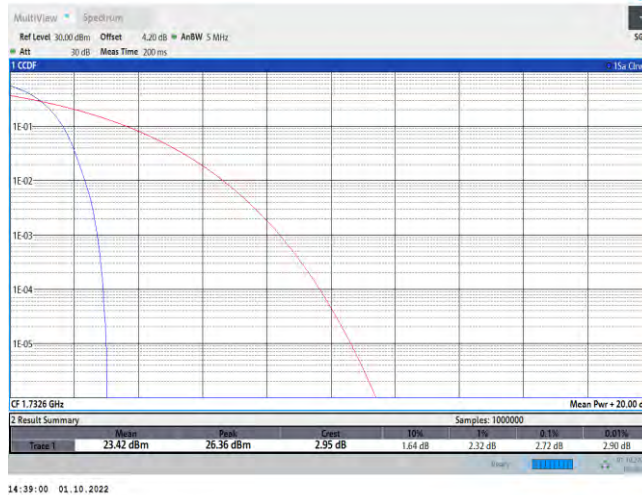
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BandIV-1413



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BandIV-1513



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BandV-4132



14:42:10 01.10.2022

BandV-4182



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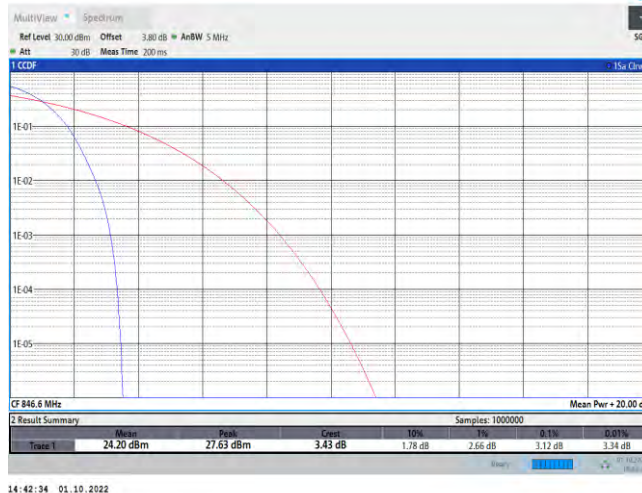


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BandV-4233



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### Modulation Characteristics

#### Test Result

Band	Channel	Result	Verdict
BandII	9400	PASS	PASS
BandIV	1513	PASS	PASS
BandV	4182	PASS	PASS



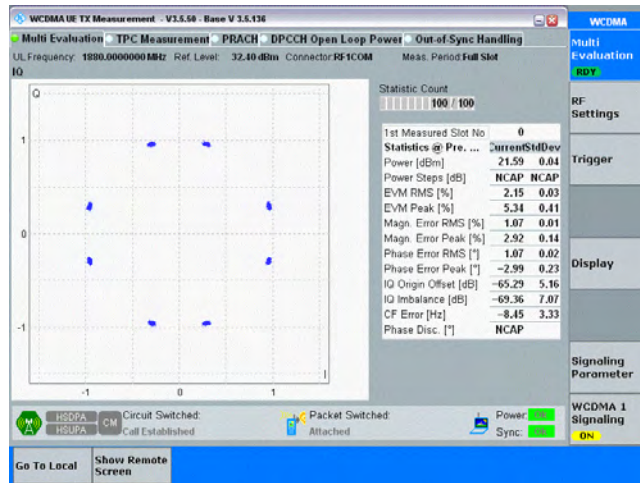
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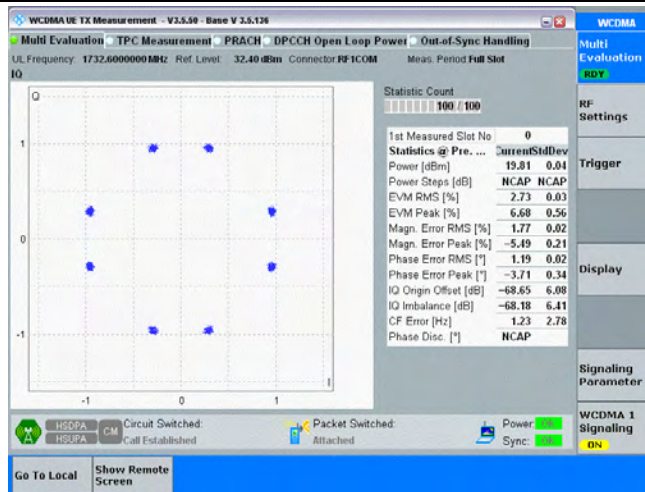
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Test Graphs

BandII-9400



BandIV-1513



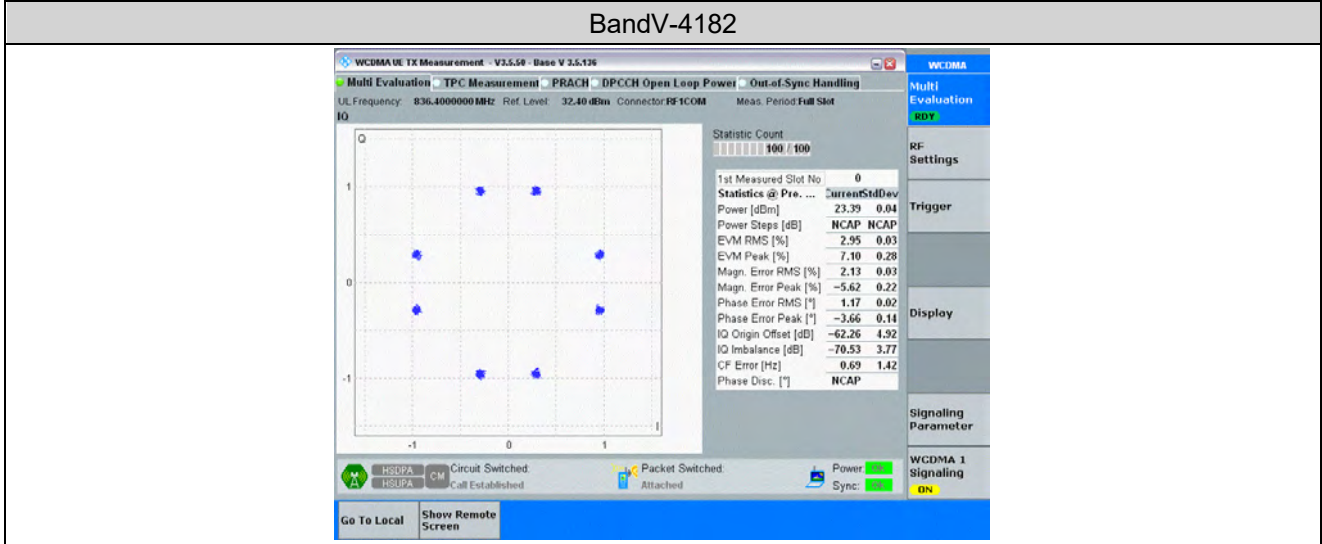
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
BandII	9262	4.168	4.76	---	PASS
BandII	9400	4.168	4.76	---	PASS
BandII	9538	4.17	4.76	---	PASS
BandIV	1312	4.153	4.74	---	PASS
BandIV	1413	4.147	4.77	---	PASS
BandIV	1513	4.15	4.73	---	PASS
BandV	4132	4.141	4.73	---	PASS
BandV	4182	4.133	4.72	---	PASS
BandV	4233	4.143	4.73	---	PASS



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Test Graphs

BandII-9262



BandII-9400



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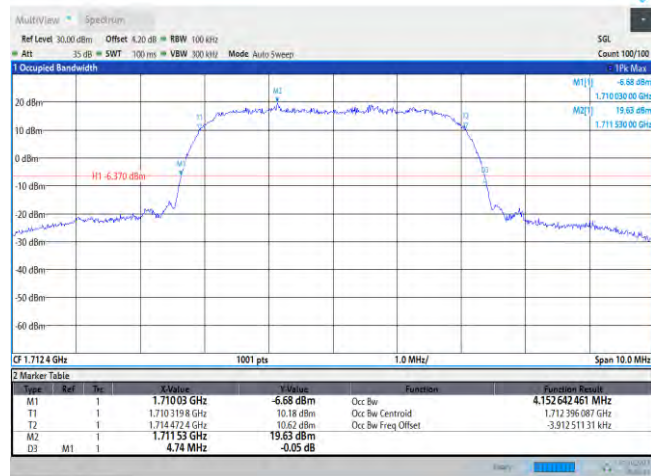
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BandII-9538



14:37:48 01.10.2022

BandIV-1312



14:40:32 01.10.2022



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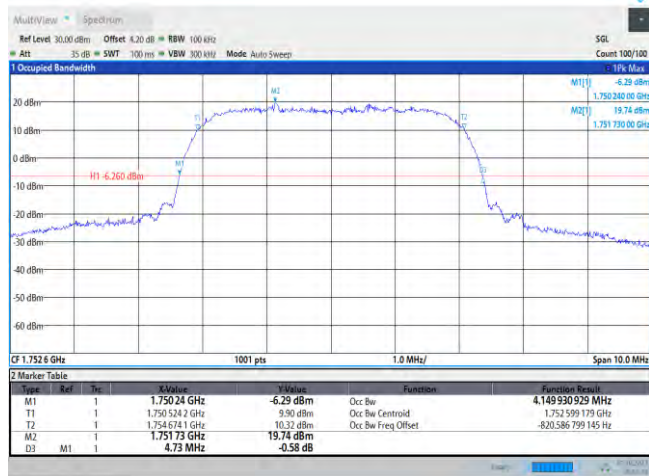
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BandIV-1413



14:40:51 01.10.2022

BandIV-1513



14:41:11 01.10.2022



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BandV-4132



14:43:54 01.10.2022

BandV-4182



14:44:13 01.10.2022



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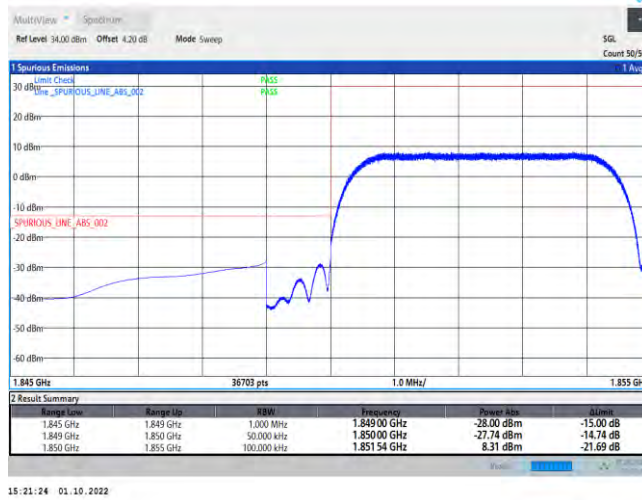
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## Band Edge

## Test Graphs

BandII-9262



BandII-9538



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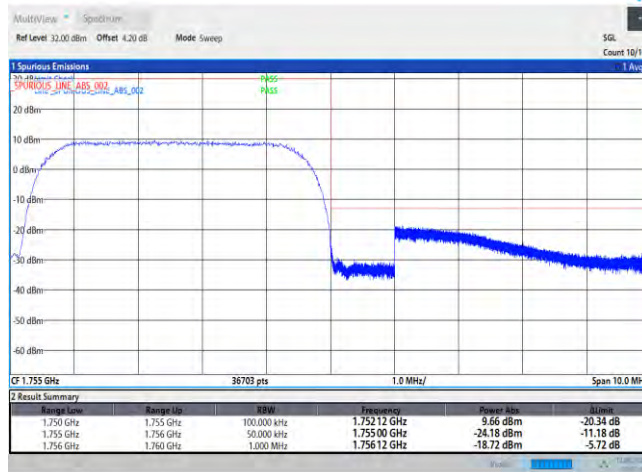
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Band.4-1312



15:38:06 01.10.2022

BandIV-1513



18:01:09 01.10.2022

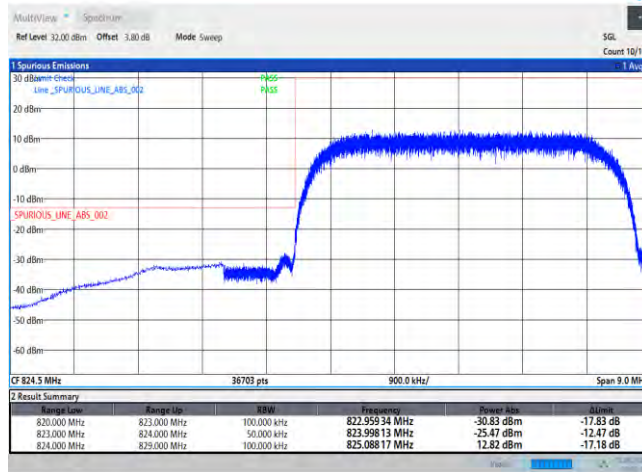


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BandV-4132



18:02:16 01.10.2022

BandV-4233



15:14:14 01.10.2022



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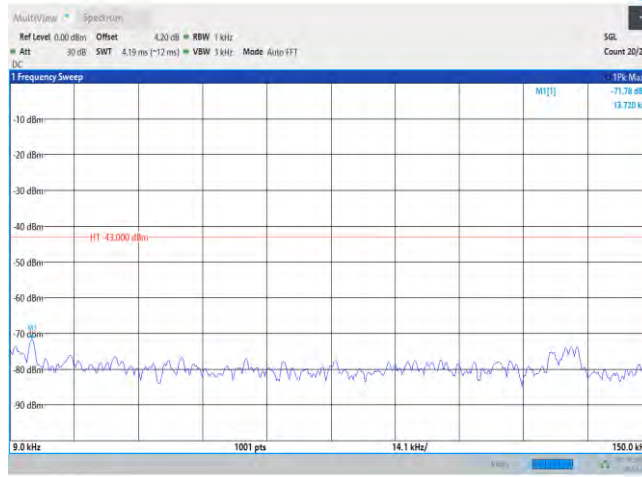
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### Conducted Spurious Emission

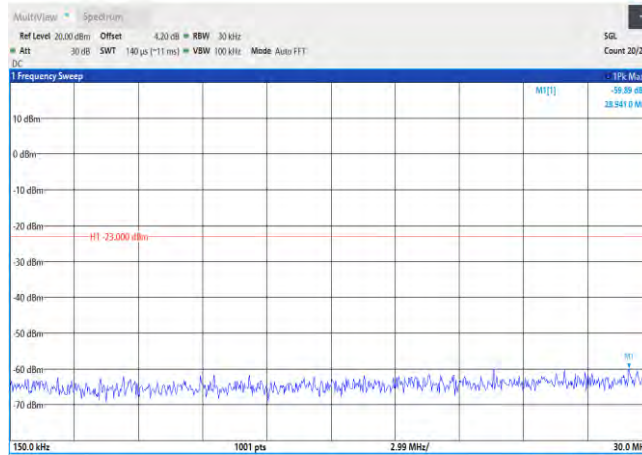
### Test Graphs

BandII-9262-0.009~0.15MHz



16:11:34 01.10.2022

BandII-9262-0.15~30MHz



16:11:37 01.10.2022

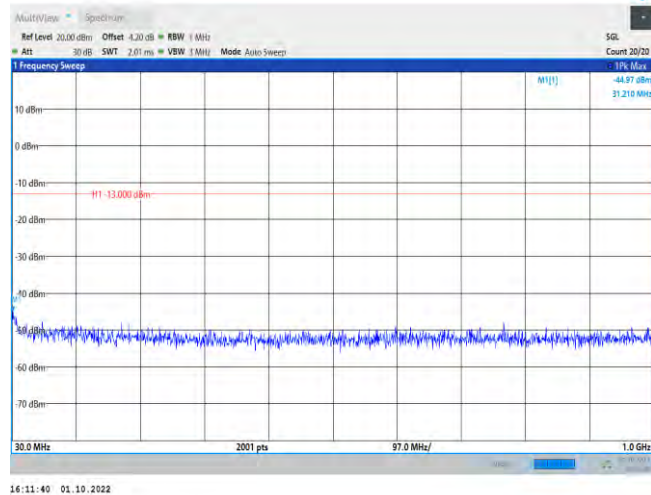


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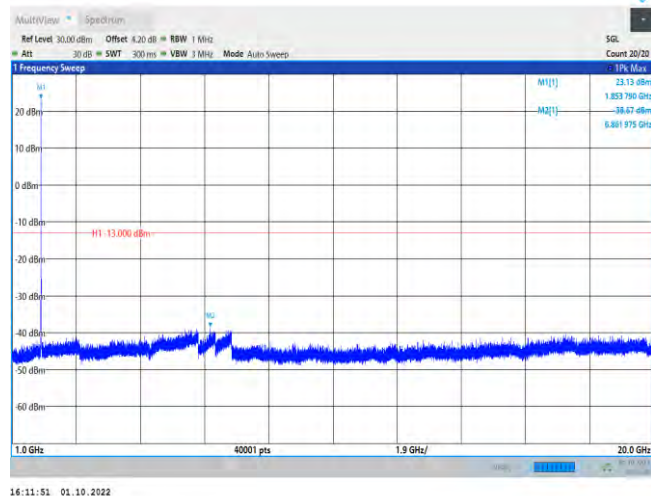
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BandII-9262-30~1000MHz



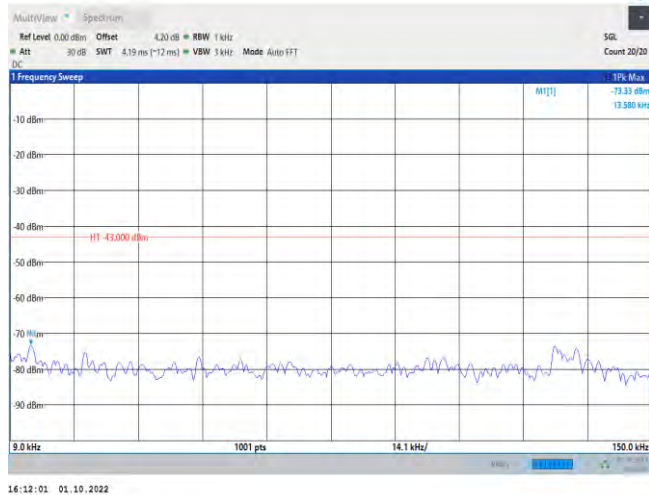
BandII-9262-1000~20000MHz



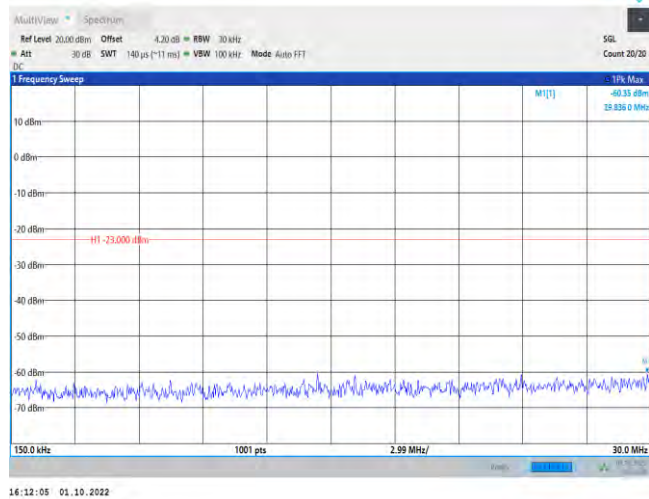
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BandII-9400-0.009~0.15MHz



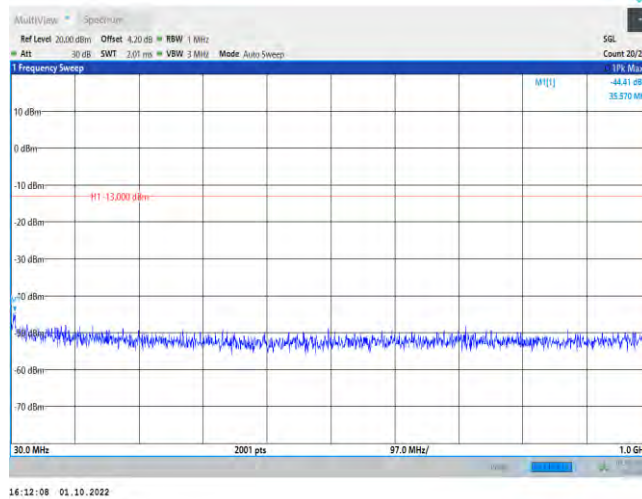
BandII-9400-0.15~30MHz



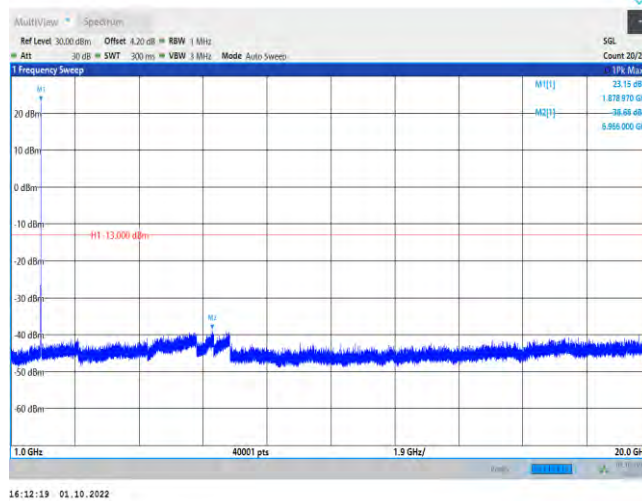
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BandII-9400-30~1000MHz



BandII-9400-1000~20000MHz



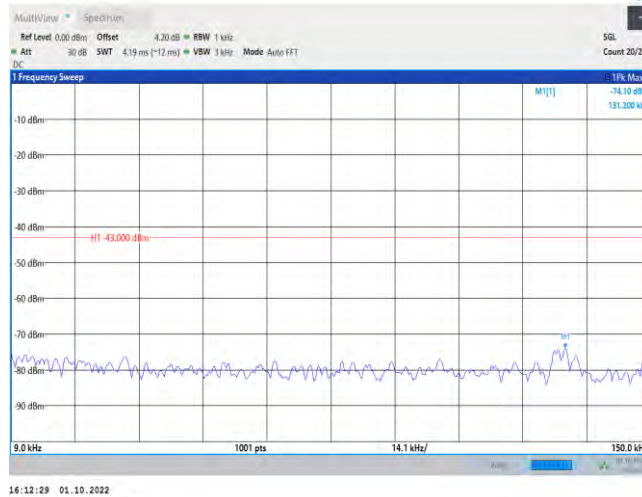
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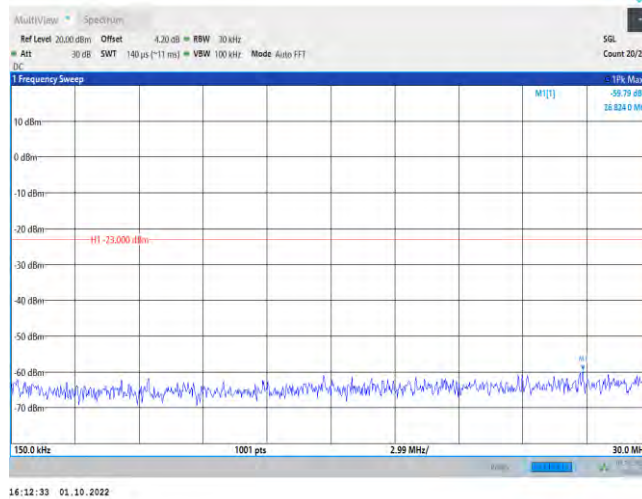




BandII-9538-0.009~0.15MHz



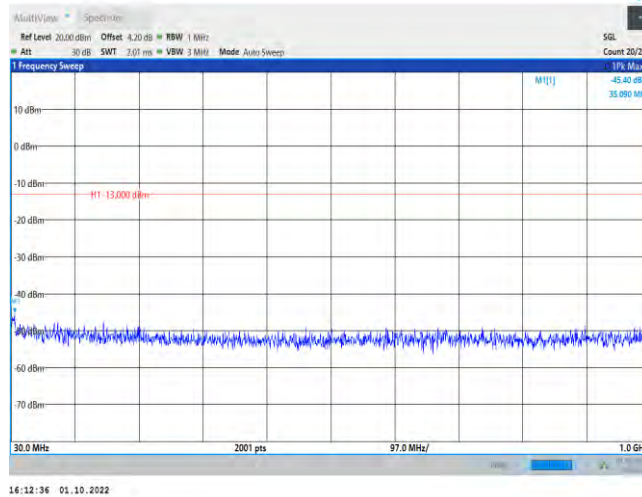
BandII-9538-0.15~30MHz



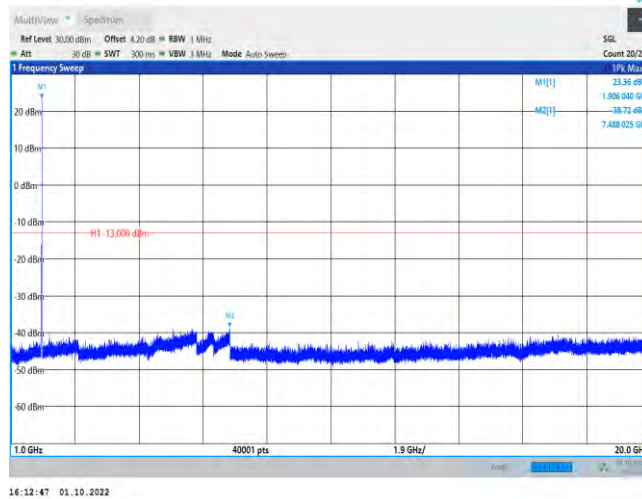
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BandII-9538-30~1000MHz



BandII-9538-1000~20000MHz

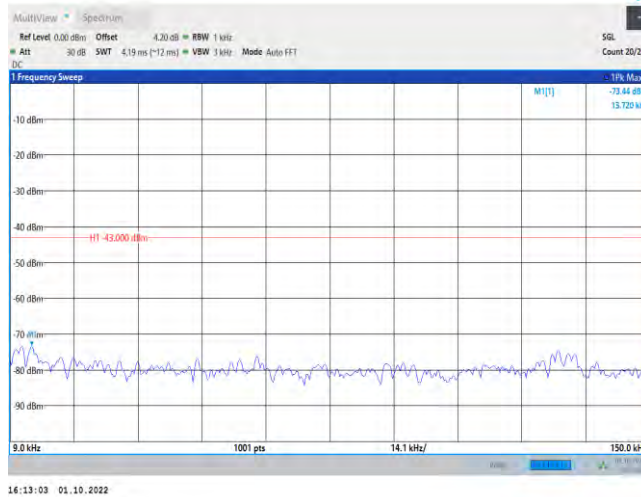


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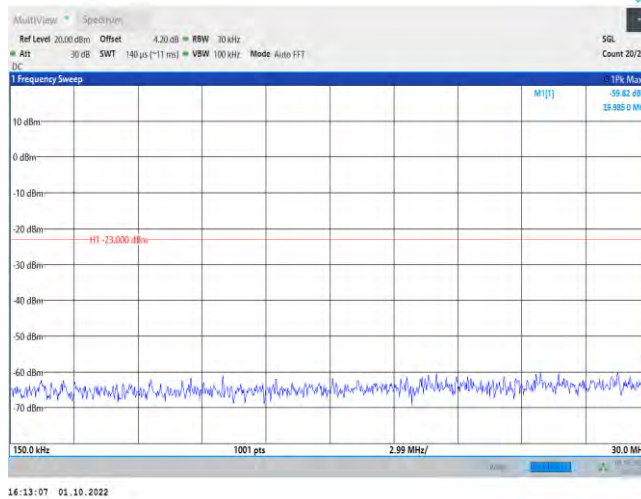
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BandIV-1312-0.009~0.15MHz



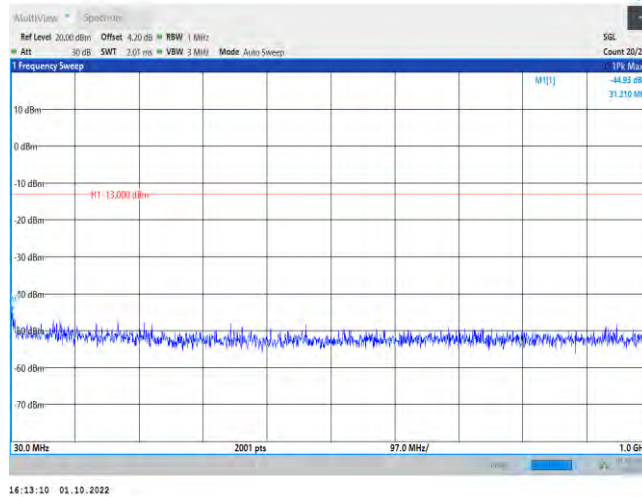
BandIV-1312-0.15~30MHz



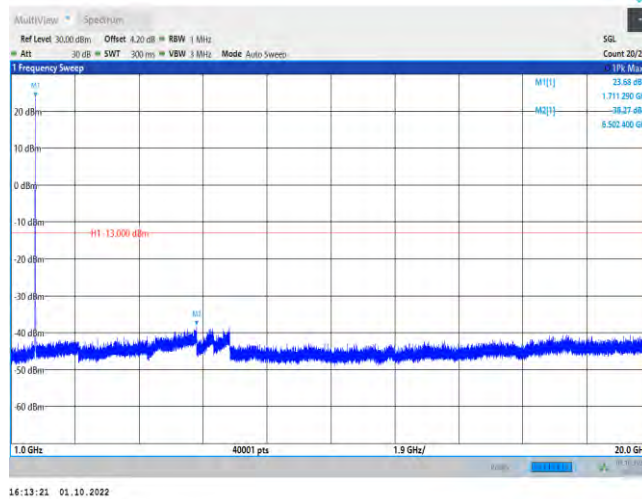
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BandIV-1312-30~1000MHz



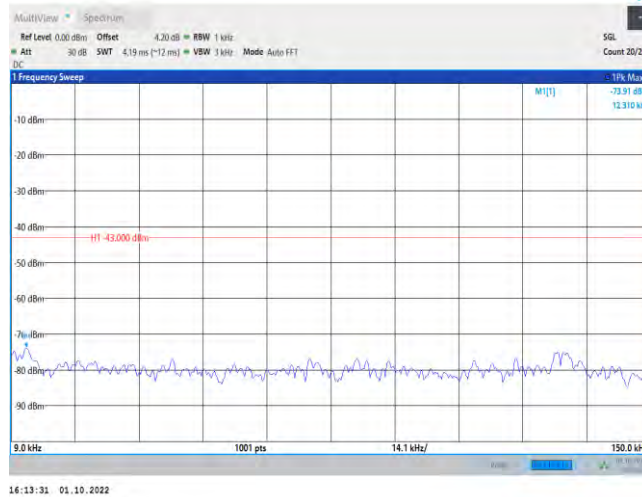
BandIV-1312-1000~20000MHz



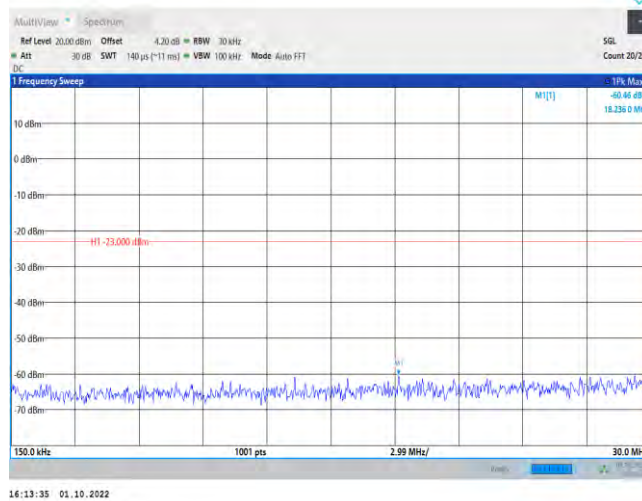
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BandIV-1413-0.009~0.15MHz



BandIV-1413-0.15~30MHz

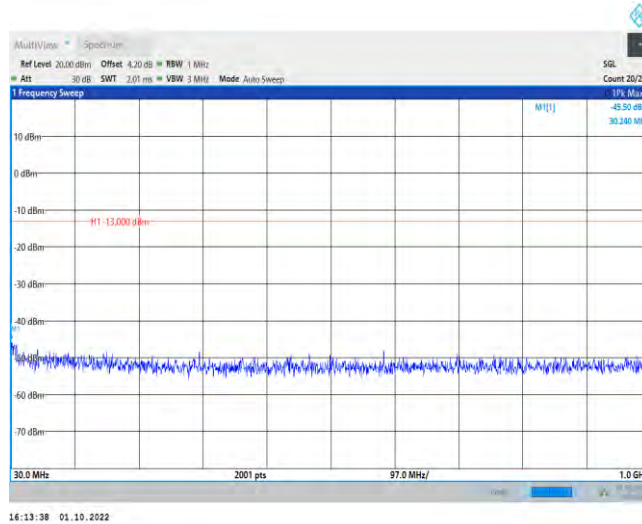


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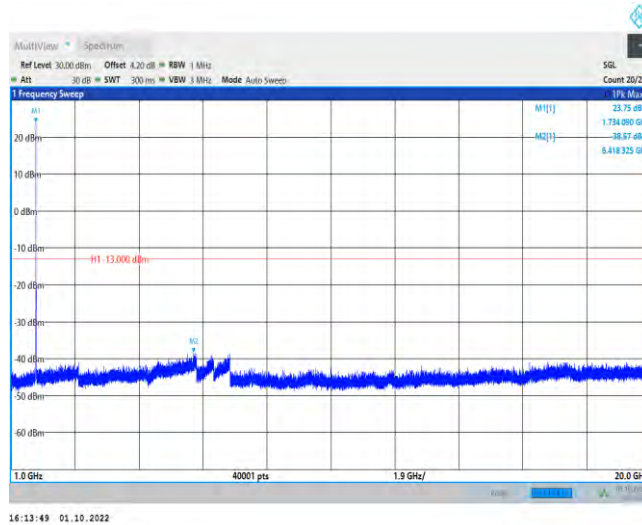
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BandIV-1413-30~1000MHz



BandIV-1413-1000~20000MHz



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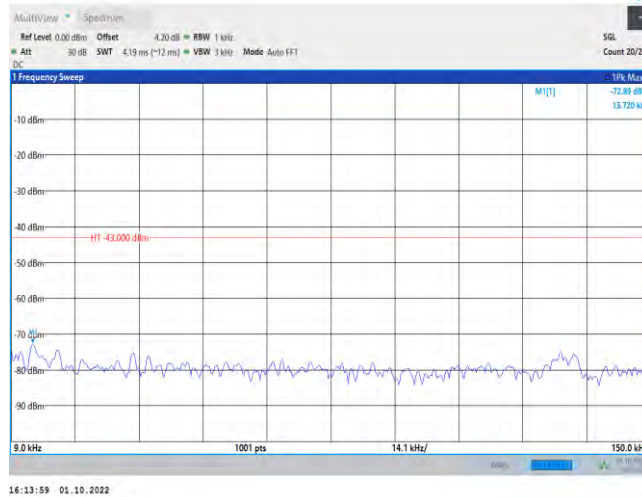


Report No.: SEWM2209000168RG01

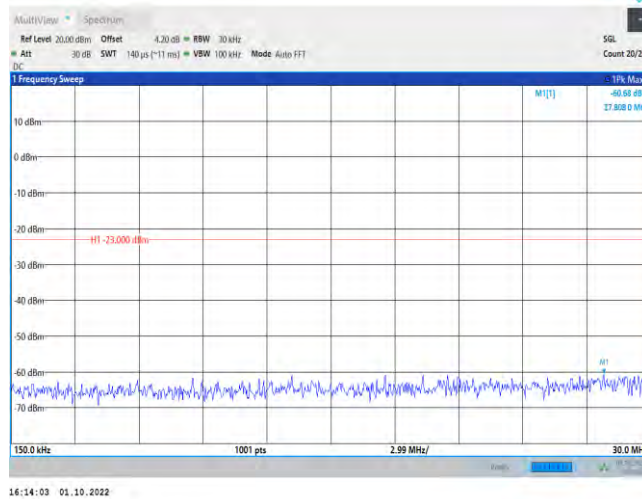
Rev.: 01

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BandIV-1513-0.009~0.15MHz



BandIV-1513-0.15~30MHz



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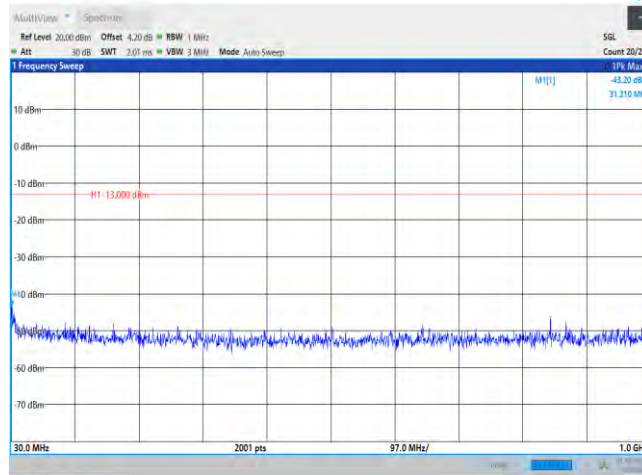
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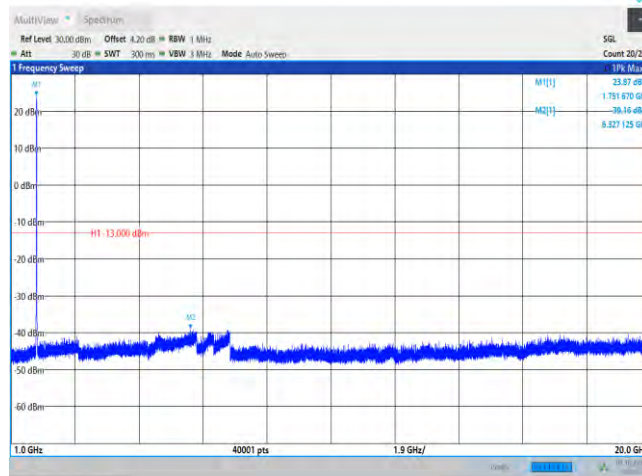
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BandIV-1513-30~1000MHz



BandIV-1513-1000~20000MHz

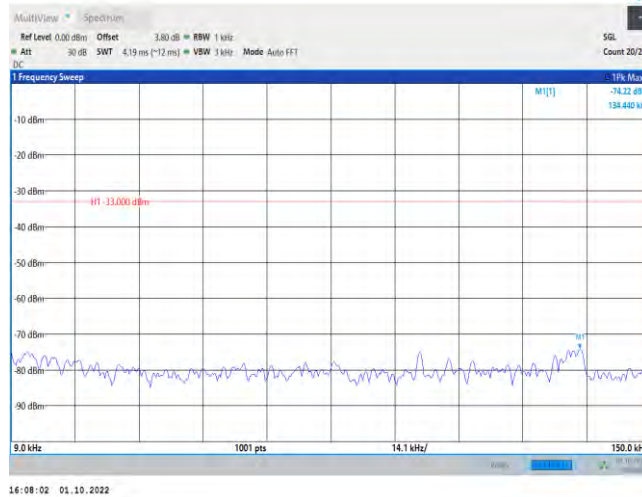


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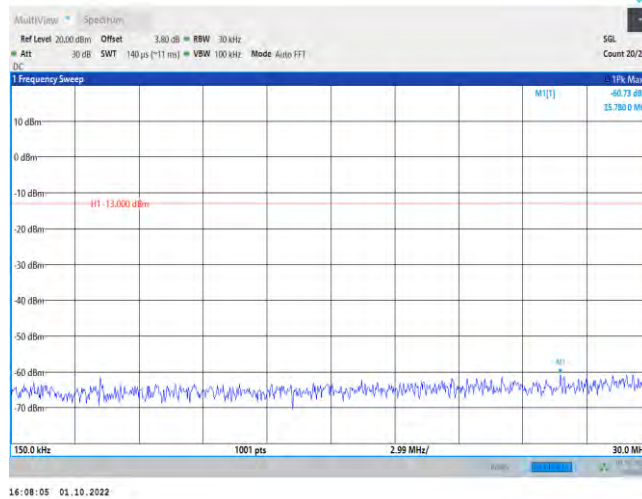
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BandV-4132-0.009~0.15MHz



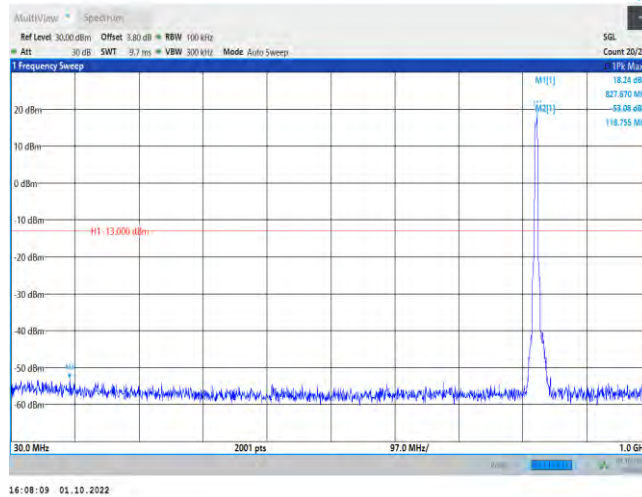
BandV-4132-0.15~30MHz



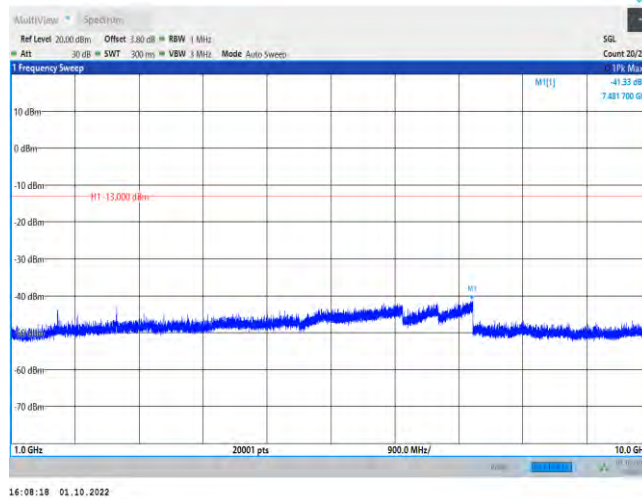
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BandV-4132-30~1000MHz



BandV-4132-1000~10000MHz

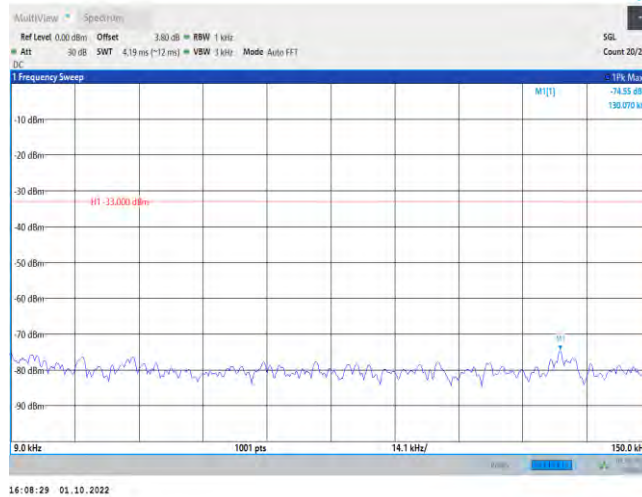


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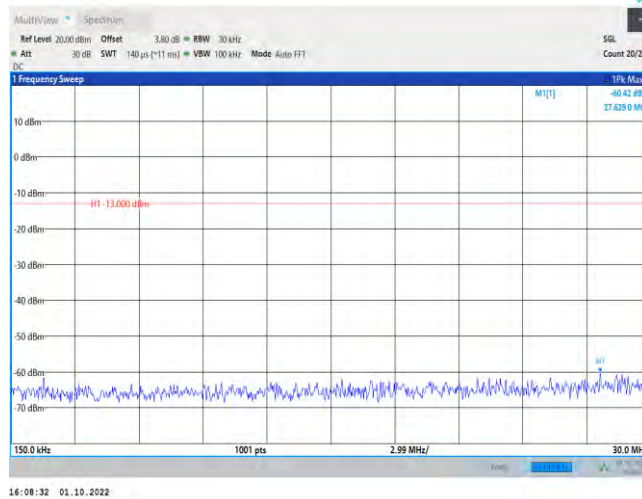
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BandV-4182-0.009~0.15MHz



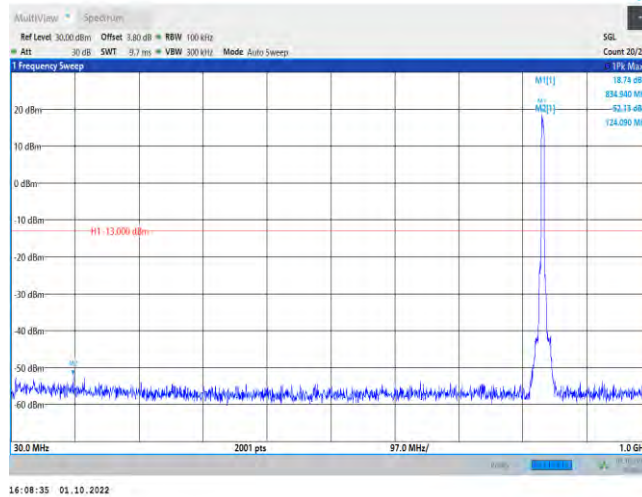
BandV-4182-0.15~30MHz



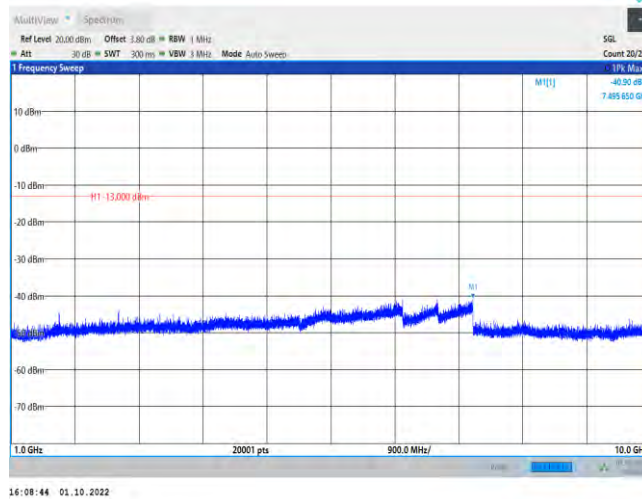
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BandV-4182-30~1000MHz



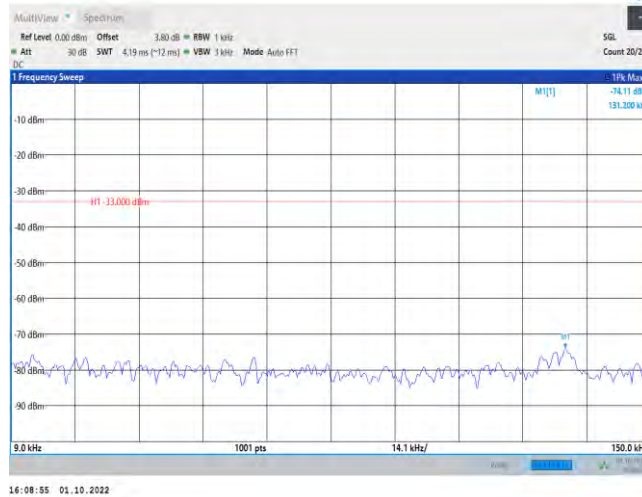
BandV-4182-1000~10000MHz



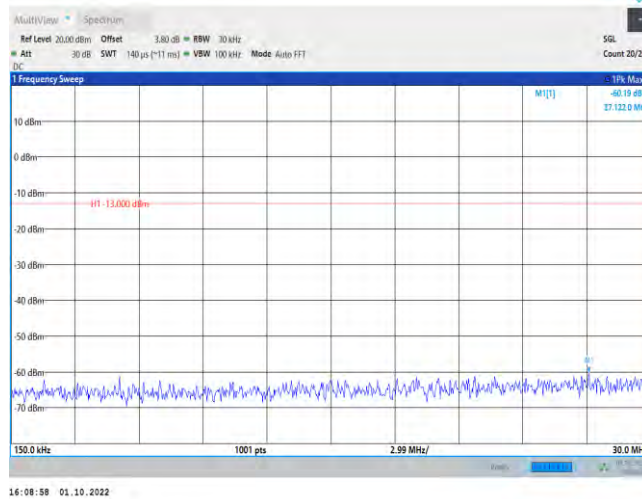
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BandV-4233-0.009~0.15MHz



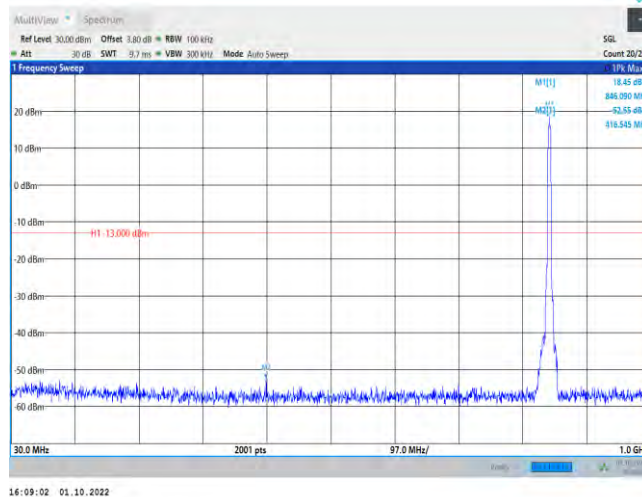
BandV-4233-0.15~30MHz



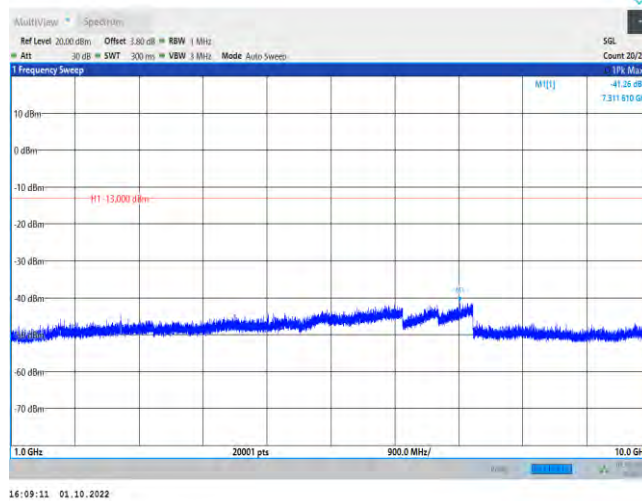
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BandV-4233-30~1000MHz



BandV-4233-1000~10000MHz



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Rev.: 01

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### Field Strength of Spurious Radiation

Test Band = WCDMA Band II ANT 0\_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8	47.23	-45.69	29.89	-63.82	-13.00	50.82	263	0	Horizontal
2	5557.2	48.92	-43.87	32.78	-57.43	-13.00	44.43	254	284	Horizontal
3	7409.6	47.45	-41.94	36.45	-53.31	-13.00	40.31	142	322	Horizontal
4	9262	44.44	-38.39	38.57	-50.64	-13.00	37.64	285	223	Horizontal
5	11114.4	39.31	-35.32	39.49	-51.78	-13.00	38.78	263	126	Horizontal
6	12966.8	40.48	-34.90	39.57	-50.11	-13.00	37.11	299	322	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8	47.16	-45.69	29.89	-63.89	-13.00	50.89	142	68	Vertical
2	5557.2	48.63	-43.87	32.78	-57.72	-13.00	44.72	265	1	Vertical
3	7409.6	46.33	-41.94	36.45	-54.43	-13.00	41.43	295	92	Vertical
4	9262	44.94	-38.39	38.57	-50.14	-13.00	37.14	201	297	Vertical
5	11114.4	40.17	-35.32	39.49	-50.92	-13.00	37.92	142	357	Vertical
6	12966.8	40.69	-34.90	39.57	-49.90	-13.00	36.90	286	3	Vertical



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Test Band = WCDMA Band II ANT 0\_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	48.78	-45.54	30.03	-61.99	-13.00	48.99	265	3	Horizontal
2	5640	49.88	-43.81	33.05	-56.14	-13.00	43.14	241	152	Horizontal
3	7520	48.23	-41.53	36.54	-52.02	-13.00	39.02	142	18	Horizontal
4	9400	45.37	-38.16	38.56	-49.49	-13.00	36.49	285	102	Horizontal
5	11280	39.87	-35.28	39.32	-51.35	-13.00	38.35	241	165	Horizontal
6	13160	39.56	-34.68	39.70	-50.68	-13.00	37.68	146	91	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	48.14	-45.54	30.03	-62.63	-13.00	49.63	265	56	Vertical
2	5640	47.87	-43.81	33.05	-58.15	-13.00	45.15	284	153	Vertical
3	7520	46.49	-41.53	36.54	-53.76	-13.00	40.76	146	213	Vertical
4	9400	43.45	-38.16	38.56	-51.41	-13.00	38.41	298	141	Vertical
5	11280	39.43	-35.28	39.32	-51.79	-13.00	38.79	287	202	Vertical
6	13160	38.60	-34.68	39.70	-51.64	-13.00	38.64	174	323	Vertical



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Test Band = WCDMA Band II ANT 0\_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3815.2	48.53	-45.44	30.16	-62.01	-13.00	49.01	265	346	Horizontal
2	5722.8	48.32	-43.67	33.31	-57.30	-13.00	44.30	241	28	Horizontal
3	7630	47.13	-41.28	36.76	-52.65	-13.00	39.65	178	236	Horizontal
4	9538	42.17	-38.13	38.55	-52.67	-13.00	39.67	265	0	Horizontal
5	11445.6	40.06	-35.32	39.15	-51.37	-13.00	38.37	233	333	Horizontal
6	13353.2	39.50	-35.15	39.81	-51.10	-13.00	38.10	296	18	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3815.2	48.96	-45.44	30.16	-61.58	-13.00	48.58	201	297	Vertical
2	5722.8	49.71	-43.67	33.31	-55.91	-13.00	42.91	142	199	Vertical
3	7630	46.33	-41.28	36.76	-53.45	-13.00	40.45	263	1	Vertical
4	9538	42.40	-38.13	38.55	-52.44	-13.00	39.44	296	199	Vertical
5	11445.6	40.10	-35.32	39.15	-51.33	-13.00	38.33	284	78	Vertical
6	13353.2	39.24	-35.15	39.81	-51.36	-13.00	38.36	175	212	Vertical



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Test Band = WCDMA Band II ANT 1\_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8	47.24	-45.69	29.89	-63.81	-13.00	50.81	296	201	Horizontal
2	5557.2	48.25	-43.87	32.78	-58.10	-13.00	45.10	265	30	Horizontal
3	7409.6	47.60	-41.94	36.45	-53.16	-13.00	40.16	241	67	Horizontal
4	9262	44.44	-38.39	38.57	-50.64	-13.00	37.64	142	286	Horizontal
5	11114.4	40.47	-35.32	39.49	-50.62	-13.00	37.62	286	80	Horizontal
6	12966.8	39.33	-34.90	39.57	-51.26	-13.00	38.26	266	178	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8	48.26	-45.69	29.89	-62.79	-13.00	49.79	201	175	Vertical
2	5557.2	51.31	-43.87	32.78	-55.04	-13.00	42.04	142	224	Vertical
3	7409.6	46.96	-41.94	36.45	-53.80	-13.00	40.80	265	357	Vertical
4	9262	45.49	-38.39	38.57	-49.59	-13.00	36.59	284	273	Vertical
5	11114.4	39.38	-35.32	39.49	-51.71	-13.00	38.71	145	357	Vertical
6	12966.8	39.63	-34.90	39.57	-50.96	-13.00	37.96	289	3	Vertical



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Test Band = WCDMA Band II ANT 1\_ TM1  
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	48.59	-45.54	30.03	-62.18	-13.00	49.18	142	167	Horizontal
2	5640	48.83	-43.81	33.05	-57.19	-13.00	44.19	265	167	Horizontal
3	7520	47.14	-41.53	36.54	-53.11	-13.00	40.11	296	0	Horizontal
4	9400	43.46	-38.16	38.56	-51.40	-13.00	38.40	285	4	Horizontal
5	11280	40.06	-35.28	39.32	-51.16	-13.00	38.16	255	11	Horizontal
6	13160	39.45	-34.68	39.70	-50.79	-13.00	37.79	211	82	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	47.46	-45.54	30.03	-63.31	-13.00	50.31	296	274	Vertical
2	5640	48.63	-43.81	33.05	-57.39	-13.00	44.39	265	130	Vertical
3	7520	46.58	-41.53	36.54	-53.67	-13.00	40.67	241	130	Vertical
4	9400	44.48	-38.16	38.56	-50.38	-13.00	37.38	174	323	Vertical
5	11280	40.41	-35.28	39.32	-50.81	-13.00	37.81	142	274	Vertical
6	13160	38.88	-34.68	39.70	-51.36	-13.00	38.36	289	202	Vertical



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Test Band = WCDMA Band II ANT 1\_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3815.2	48.40	-45.44	30.16	-62.14	-13.00	49.14	142	10	Horizontal
2	5722.8	47.49	-43.67	33.31	-58.13	-13.00	45.13	265	4	Horizontal
3	7630	47.22	-41.28	36.76	-52.56	-13.00	39.56	241	152	Horizontal
4	9538	43.12	-38.13	38.55	-51.72	-13.00	38.72	142	357	Horizontal
5	11445.6	40.15	-35.32	39.15	-51.28	-13.00	38.28	296	0	Horizontal
6	13353.2	39.32	-35.15	39.81	-51.28	-13.00	38.28	238	225	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3815.2	48.37	-45.44	30.16	-62.17	-13.00	49.17	265	322	Vertical
2	5722.8	48.61	-43.67	33.31	-57.01	-13.00	44.01	241	1	Vertical
3	7630	46.40	-41.28	36.76	-53.38	-13.00	40.38	174	1	Vertical
4	9538	42.45	-38.13	38.55	-52.39	-13.00	39.39	142	78	Vertical
5	11445.6	39.48	-35.32	39.15	-51.95	-13.00	38.95	296	0	Vertical
6	13353.2	38.24	-35.15	39.81	-52.36	-13.00	39.36	238	117	Vertical



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Test Band = WCDMA Band IV ANT 0\_ 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	3424.8	49.40	-45.87	29.43	-62.30	-13.00	49.30	263	1	Horizontal
2	5137.2	48.29	-44.24	32.60	-58.61	-13.00	45.61	254	251	Horizontal
3	6849.6	47.68	-42.50	35.90	-54.18	-13.00	41.18	142	333	Horizontal
4	8562	44.26	-39.70	38.12	-52.58	-13.00	39.58	286	357	Horizontal
5	10274.4	40.09	-36.76	38.80	-53.13	-13.00	40.13	201	357	Horizontal
6	11986.8	38.00	-35.35	38.61	-53.99	-13.00	40.99	146	357	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	3424.8	48.57	-45.87	29.43	-63.13	-13.00	50.13	296	0	Vertical
2	5137.2	48.44	-44.24	32.60	-58.46	-13.00	45.46	254	310	Vertical
3	6849.6	47.71	-42.50	35.90	-54.15	-13.00	41.15	142	310	Vertical
4	8562	43.85	-39.70	38.12	-52.99	-13.00	39.99	285	357	Vertical
5	10274.4	39.70	-36.76	38.80	-53.52	-13.00	40.52	263	273	Vertical
6	11986.8	38.83	-35.35	38.61	-53.16	-13.00	40.16	209	346	Vertical



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Test Band = WCDMA Band IV ANT 0\_ 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	3465.2	49.50	-45.77	29.41	-62.12	-13.00	49.12	265	98	Horizontal
2	5197.8	48.82	-44.15	32.60	-57.99	-13.00	44.99	241	221	Horizontal
3	6930.4	45.99	-42.48	36.06	-55.69	-13.00	42.69	142	323	Horizontal
4	8663	44.33	-39.54	38.23	-52.24	-13.00	39.24	296	15	Horizontal
5	10395.6	40.25	-36.49	38.94	-52.56	-13.00	39.56	355	323	Horizontal
6	12128.2	38.25	-35.20	38.73	-53.48	-13.00	40.48	241	247	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	3465.2	47.91	-45.77	29.41	-63.71	-13.00	50.71	296	104	Vertical
2	5197.8	48.39	-44.15	32.60	-58.42	-13.00	45.42	265	347	Vertical
3	6930.4	46.59	-42.48	36.06	-55.09	-13.00	42.09	241	56	Vertical
4	8663	44.60	-39.54	38.23	-51.97	-13.00	38.97	178	152	Vertical
5	10395.6	40.84	-36.49	38.94	-51.97	-13.00	38.97	255	309	Vertical
6	12128.2	37.76	-35.20	38.73	-53.97	-13.00	40.97	241	163	Vertical



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est Band = WCDMA Band IV ANT 0\_ 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	3505.2	49.11	-45.66	29.41	-62.40	-13.00	49.40	142	128	Horizontal
2	5257.8	49.92	-44.07	32.60	-56.81	-13.00	43.81	265	31	Horizontal
3	7010.4	46.49	-42.58	36.21	-55.14	-13.00	42.14	284	272	Horizontal
4	8763	44.92	-39.21	38.34	-51.21	-13.00	38.21	142	0	Horizontal
5	10515.6	41.02	-36.35	39.07	-51.53	-13.00	38.53	263	1	Horizontal
6	12268.2	37.69	-35.12	38.87	-53.82	-13.00	40.82	298	152	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	3505.2	48.36	-45.66	29.41	-63.15	-13.00	50.15	204	31	Vertical
2	5257.8	50.06	-44.07	32.60	-56.67	-13.00	43.67	146	346	Vertical
3	7010.4	46.45	-42.58	36.21	-55.18	-13.00	42.18	285	0	Vertical
4	8763	44.75	-39.21	38.34	-51.38	-13.00	38.38	295	92	Vertical
5	10515.6	40.66	-36.35	39.07	-51.89	-13.00	38.89	241	249	Vertical
6	12268.2	37.76	-35.12	38.87	-53.75	-13.00	40.75	178	153	Vertical



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Test Band = WCDMA Band IV ANT 1\_ 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	3424.8	48.83	-45.87	29.43	-62.87	-13.00	49.87	142	346	Horizontal
2	5137.2	49.73	-44.24	32.60	-57.17	-13.00	44.17	268	31	Horizontal
3	6849.6	47.86	-42.50	35.90	-54.00	-13.00	41.00	254	0	Horizontal
4	8562	45.22	-39.70	38.12	-51.62	-13.00	38.62	174	346	Horizontal
5	10274.4	41.25	-36.76	38.80	-51.97	-13.00	38.97	142	202	Horizontal
6	11986.8	38.69	-35.35	38.61	-53.30	-13.00	40.30	296	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	3424.8	48.21	-45.87	29.43	-63.49	-13.00	50.49	296	10	Vertical
2	5137.2	48.33	-44.24	32.60	-58.57	-13.00	45.57	265	20	Vertical
3	6849.6	47.98	-42.50	35.90	-53.88	-13.00	40.88	241	261	Vertical
4	8562	44.48	-39.70	38.12	-52.36	-13.00	39.36	178	309	Vertical
5	10274.4	41.16	-36.76	38.80	-52.06	-13.00	39.06	255	65	Vertical
6	11986.8	39.50	-35.35	38.61	-52.49	-13.00	39.49	244	140	Vertical



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Test Band = WCDMA Band IV ANT 1\_ 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	3465.2	48.80	-45.77	29.41	-62.82	-13.00	49.82	296	3	Horizontal
2	5197.8	49.23	-44.15	32.60	-57.58	-13.00	44.58	284	262	Horizontal
3	6930.4	46.49	-42.48	36.06	-55.19	-13.00	42.19	142	0	Horizontal
4	8663	45.72	-39.54	38.23	-50.85	-13.00	37.85	268	42	Horizontal
5	10395.6	41.73	-36.49	38.94	-51.08	-13.00	38.08	287	0	Horizontal
6	12128.2	39.28	-35.20	38.73	-52.45	-13.00	39.45	175	163	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	3465.2	49.19	-45.77	29.41	-62.43	-13.00	49.43	206	68	Vertical
2	5197.8	50.23	-44.15	32.60	-56.58	-13.00	43.58	265	32	Vertical
3	6930.4	46.51	-42.48	36.06	-55.17	-13.00	42.17	241	310	Vertical
4	8663	45.40	-39.54	38.23	-51.17	-13.00	38.17	178	310	Vertical
5	10395.6	41.88	-36.49	38.94	-50.93	-13.00	37.93	296	10	Vertical
6	12128.2	39.11	-35.20	38.73	-52.62	-13.00	39.62	332	153	Vertical



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**Test Band = WCDMA Band IV ANT 1\_ 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	3505.2	49.74	-45.66	29.41	-61.77	-13.00	48.77	296	187	Horizontal
2	5257.8	49.85	-44.07	32.60	-56.88	-13.00	43.88	265	224	Horizontal
3	7010.4	45.65	-42.58	36.21	-55.98	-13.00	42.98	241	55	Horizontal
4	8763	44.54	-39.21	38.34	-51.59	-13.00	38.59	178	224	Horizontal
5	10515.6	39.48	-36.35	39.07	-53.07	-13.00	40.07	255	310	Horizontal
6	12268.2	38.59	-35.12	38.87	-52.92	-13.00	39.92	241	212	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	3505.2	48.54	-45.66	29.41	-62.97	-13.00	49.97	241	335	Vertical
2	5257.8	49.10	-44.07	32.60	-57.63	-13.00	44.63	296	335	Vertical
3	7010.4	46.38	-42.58	36.21	-55.25	-13.00	42.25	268	41	Vertical
4	8763	45.23	-39.21	38.34	-50.90	-13.00	37.90	241	68	Vertical
5	10515.6	40.04	-36.35	39.07	-52.51	-13.00	39.51	175	104	Vertical
6	12268.2	38.45	-35.12	38.87	-53.06	-13.00	40.06	263	81	Vertical



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Test Band = WCDMA Band V ANT 0\_ 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	1655	58.24	-48.37	25.57	-59.81	-13.00	46.81	265	354	Horizontal
2	2479.2	50.97	-46.91	27.86	-63.35	-13.00	50.35	284	142	Horizontal
3	3305.6	49.30	-46.12	29.48	-62.60	-13.00	49.60	142	196	Horizontal
4	4132	49.95	-45.31	30.81	-59.81	-13.00	46.81	286	360	Horizontal
5	4958.4	48.68	-45.07	32.50	-59.15	-13.00	46.15	325	55	Horizontal
6	5784.8	49.43	-43.52	33.51	-55.84	-13.00	42.84	241	77	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	52.54	-48.37	25.57	-65.52	-13.00	52.52	241	2	Vertical
2	2479.2	51.12	-46.91	27.86	-63.20	-13.00	50.20	142	357	Vertical
3	3305.6	49.36	-46.12	29.48	-62.54	-13.00	49.54	265	6	Vertical
4	4132	50.19	-45.31	30.81	-59.57	-13.00	46.57	288	0	Vertical
5	4958.4	49.67	-45.07	32.50	-58.16	-13.00	45.16	241	357	Vertical
6	5784.8	49.81	-43.52	33.51	-55.46	-13.00	42.46	145	142	Vertical



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Test Band = WCDMA Band V ANT 0\_ 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	52.62	-48.32	25.56	-65.39	-13.00	52.39	263	313	Horizontal
2	2509.2	53.94	-46.79	27.93	-60.18	-13.00	47.18	254	248	Horizontal
3	3345.6	48.17	-46.19	29.46	-63.82	-13.00	50.82	142	360	Horizontal
4	4182	47.36	-45.16	30.89	-62.17	-13.00	49.17	286	85	Horizontal
5	5018.4	48.59	-44.93	32.60	-59.00	-13.00	46.00	296	359	Horizontal
6	5854.8	49.59	-43.34	33.74	-55.27	-13.00	42.27	274	269	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	53.08	-48.32	25.56	-64.93	-13.00	51.93	296	55	Vertical
2	2509.2	50.60	-46.79	27.93	-63.52	-13.00	50.52	265	316	Vertical
3	3345.6	48.41	-46.19	29.46	-63.58	-13.00	50.58	241	65	Vertical
4	4182	48.13	-45.16	30.89	-61.40	-13.00	48.40	178	44	Vertical
5	5018.4	48.18	-44.93	32.60	-59.41	-13.00	46.41	266	76	Vertical
6	5854.8	49.96	-43.34	33.74	-54.90	-13.00	41.90	355	249	Vertical



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Test Band = WCDMA Band V ANT 0\_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	1691.5	63.76	-48.26	25.55	-54.21	-13.00	41.21	142	23	Horizontal
2	2539.8	52.02	-46.94	28.04	-62.14	-13.00	49.14	142	360	Horizontal
3	3386.4	48.72	-46.26	29.45	-63.35	-13.00	50.35	241	218	Horizontal
4	4233	49.41	-45.11	30.97	-59.99	-13.00	46.99	201	358	Horizontal
5	5079.6	49.50	-44.67	32.60	-57.83	-13.00	44.83	163	208	Horizontal
6	5926.2	49.75	-43.30	33.96	-54.84	-13.00	41.84	268	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	1693.2	53.09	-48.26	25.55	-64.87	-13.00	51.87	142	0	Vertical
2	2539.8	50.46	-46.94	28.04	-63.70	-13.00	50.70	263	357	Vertical
3	3386.4	48.93	-46.26	29.45	-63.14	-13.00	50.14	251	357	Vertical
4	4233	48.77	-45.11	30.97	-60.63	-13.00	47.63	142	118	Vertical
5	5079.6	49.49	-44.67	32.60	-57.84	-13.00	44.84	258	196	Vertical
6	5926.2	49.52	-43.30	33.96	-55.07	-13.00	42.07	263	142	Vertical



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Test Band = WCDMA Band V ANT 1\_ 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	1654	57.99	-48.37	25.57	-60.07	-13.00	47.07	265	354	Horizontal
2	2479.2	51.08	-46.91	27.86	-63.24	-13.00	50.24	284	35	Horizontal
3	3305.6	49.47	-46.12	29.48	-62.43	-13.00	49.43	174	241	Horizontal
4	4132	49.74	-45.31	30.81	-60.02	-13.00	47.02	142	262	Horizontal
5	4958.4	49.56	-45.07	32.50	-58.27	-13.00	45.27	296	45	Horizontal
6	5784.8	50.26	-43.52	33.51	-55.01	-13.00	42.01	284	165	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	52.57	-48.37	25.57	-65.49	-13.00	52.49	296	86	Vertical
2	2479.2	51.00	-46.91	27.86	-63.32	-13.00	50.32	254	65	Vertical
3	3305.6	48.77	-46.12	29.48	-63.13	-13.00	50.13	178	250	Vertical
4	4132	48.93	-45.31	30.81	-60.83	-13.00	47.83	142	75	Vertical
5	4958.4	49.23	-45.07	32.50	-58.60	-13.00	45.60	285	357	Vertical
6	5784.8	49.44	-43.52	33.51	-55.83	-13.00	42.83	244	2	Vertical



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est Band = WCDMA Band V ANT 1\_ 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	1674.5	61.11	-48.31	25.56	-56.90	-13.00	43.90	265	23	Horizontal
2	2527.5	53.66	-46.88	27.99	-60.48	-13.00	47.48	241	131	Horizontal
3	3345.6	49.28	-46.19	29.46	-62.71	-13.00	49.71	178	360	Horizontal
4	4182	49.06	-45.16	30.89	-60.47	-13.00	47.47	254	238	Horizontal
5	5018.4	49.13	-44.93	32.60	-58.46	-13.00	45.46	142	206	Horizontal
6	5854.8	49.98	-43.34	33.74	-54.88	-13.00	41.88	268	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	1672.8	52.23	-48.32	25.56	-65.78	-13.00	52.78	265	2	Vertical
2	2509.2	51.32	-46.79	27.93	-62.80	-13.00	49.80	241	228	Vertical
3	3345.6	48.86	-46.19	29.46	-63.13	-13.00	50.13	178	174	Vertical
4	4182	48.19	-45.16	30.89	-61.34	-13.00	48.34	255	293	Vertical
5	5018.4	48.48	-44.93	32.60	-59.11	-13.00	46.11	241	217	Vertical
6	5854.8	49.26	-43.34	33.74	-55.60	-13.00	42.60	146	346	Vertical



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**Test Band = WCDMA Band V ANT 1\_ 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	1695	62.89	-48.25	25.55	-55.07	-13.00	42.07	296	3	Horizontal
2	2539.8	50.86	-46.94	28.04	-63.30	-13.00	50.30	254	242	Horizontal
3	3386.4	49.41	-46.26	29.45	-62.66	-13.00	49.66	142	88	Horizontal
4	4233	48.83	-45.11	30.97	-60.57	-13.00	47.57	284	286	Horizontal
5	5079.6	49.29	-44.67	32.60	-58.04	-13.00	45.04	174	67	Horizontal
6	5926.2	49.25	-43.30	33.96	-55.34	-13.00	42.34	146	111	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	51.54	-48.26	25.55	-66.42	-13.00	53.42	174	2	Vertical
2	2539.8	51.34	-46.94	28.04	-62.82	-13.00	49.82	196	292	Vertical
3	3386.4	49.27	-46.26	29.45	-62.80	-13.00	49.80	241	186	Vertical
4	4233	48.68	-45.11	30.97	-60.72	-13.00	47.72	185	0	Vertical
5	5079.6	49.93	-44.67	32.60	-57.40	-13.00	44.40	185	119	Vertical
6	5926.2	50.53	-43.30	33.96	-54.06	-13.00	41.06	152	152	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

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	VL	NT	0.84	0.000447	PASS
BandII	9400	VN	NT	0.56	0.000298	PASS
BandII	9400	VH	NT	1.14	0.000606	PASS
BandIV	1413	VL	NT	-3.69	-0.002130	PASS
BandIV	1413	VN	NT	-4.30	-0.002482	PASS
BandIV	1413	VH	NT	-3.71	-0.002141	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	VL	NT	-0.23	-0.000275	±2.5	PASS
BandV	4182	VN	NT	-0.33	-0.000395	±2.5	PASS
BandV	4182	VH	NT	-0.68	-0.000813	±2.5	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	NV	-30	1.49	0.000793	PASS
BandII	9400	NV	-20	1.79	0.000952	PASS
BandII	9400	NV	-10	-3.67	-0.002118	PASS
BandII	9400	NV	0	1.60	0.000851	PASS
BandII	9400	NV	10	1.68	0.000894	PASS
BandII	9400	NV	20	1.61	0.000856	PASS
BandII	9400	NV	30	1.34	0.000713	PASS
BandII	9400	NV	40	1.65	0.000878	PASS
BandII	9400	NV	50	1.68	0.000894	PASS
BandIV	1413	NV	-30	-3.35	-0.001934	PASS
BandIV	1413	NV	-20	-3.67	-0.002118	PASS
BandIV	1413	NV	-10	-3.67	-0.002118	PASS
BandIV	1413	NV	0	-3.61	-0.002084	PASS
BandIV	1413	NV	10	-3.10	-0.001789	PASS
BandIV	1413	NV	20	-3.17	-0.001830	PASS
BandIV	1413	NV	30	-3.75	-0.002164	PASS
BandIV	1413	NV	40	-3.12	-0.001801	PASS
BandIV	1413	NV	50	-3.69	-0.002130	PASS



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Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	NV	-30	-0.27	-0.000323	±2.5	PASS
BandV	4182	NV	-20	-0.58	-0.000693	±2.5	PASS
BandV	4182	NV	-10	-0.58	-0.000693	±2.5	PASS
BandV	4182	NV	0	-0.55	-0.000658	±2.5	PASS
BandV	4182	NV	10	-0.63	-0.000753	±2.5	PASS
BandV	4182	NV	20	-0.54	-0.000646	±2.5	PASS
BandV	4182	NV	30	-0.21	-0.000251	±2.5	PASS
BandV	4182	NV	40	-0.09	-0.000108	±2.5	PASS
BandV	4182	NV	50	-0.49	-0.000586	±2.5	PASS

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