

Report No.: XEWM2311000573RG01

Rev.: 01

Page: 1 of 53

# Appendix B.2

## WCDMA Band II&IV&V



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Report No.: XEWM2311000573RG01

Rev.: 01

Page: 2 of 53

## Effective (Isotropic) Radiated Power Output Data

## Test Result

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
BandV	4132	23.12	19.37	38.45	PASS
BandV	4182	22.97	19.22	38.45	PASS
BandV	4233	22.70	18.95	38.45	PASS

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
BandII	9262	22.29	22.69	33.00	PASS
BandII	9400	22.28	22.68	33.00	PASS
BandII	9538	22.46	22.86	33.00	PASS
BandIV	1312	22.68	22.78	30.00	PASS
BandIV	1413	22.71	22.81	30.00	PASS
BandIV	1513	22.73	22.83	30.00	PASS



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Rev.: 01

Page: 3 of 53

## Peak-to-Average Ratio

### Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
BandII	9262	3.18	13	PASS
BandII	9400	3.26	13	PASS
BandII	9538	3.24	13	PASS
BandIV	1312	3.2	13	PASS
BandIV	1413	3.18	13	PASS
BandIV	1513	3.2	13	PASS
BandV	4132	3.1	13	PASS
BandV	4182	3.1	13	PASS
BandV	4233	3.16	13	PASS



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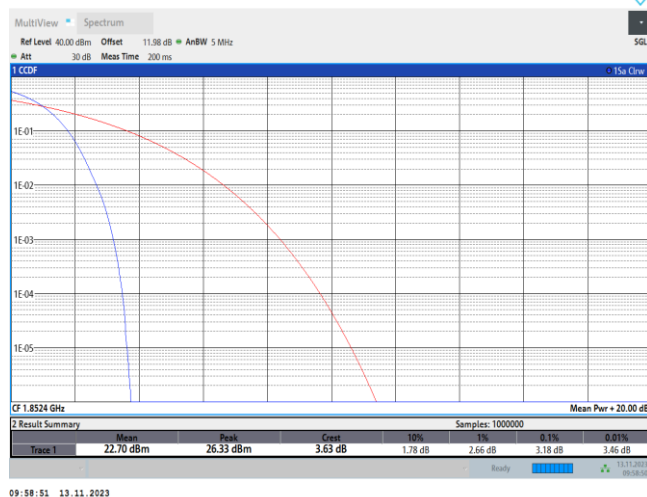
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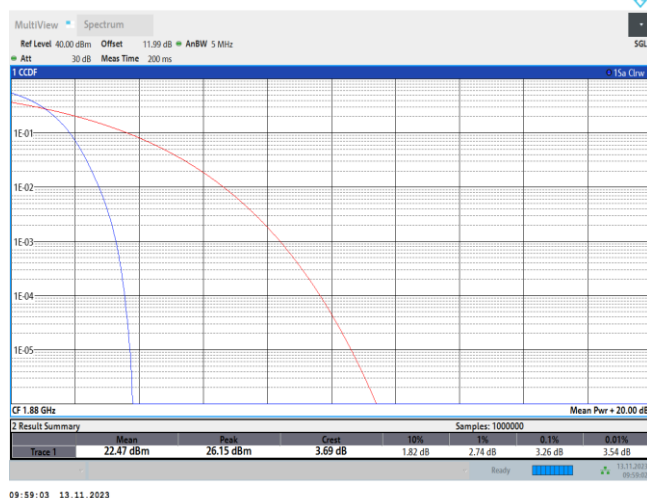
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### Test Graphs

BandII-9262



BandII-9400



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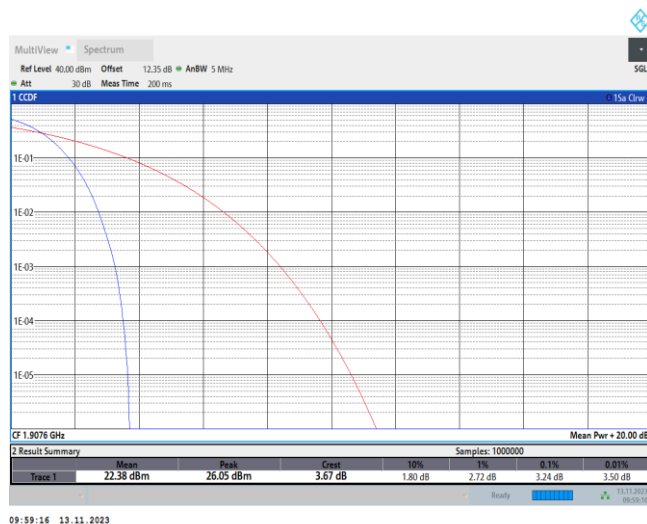
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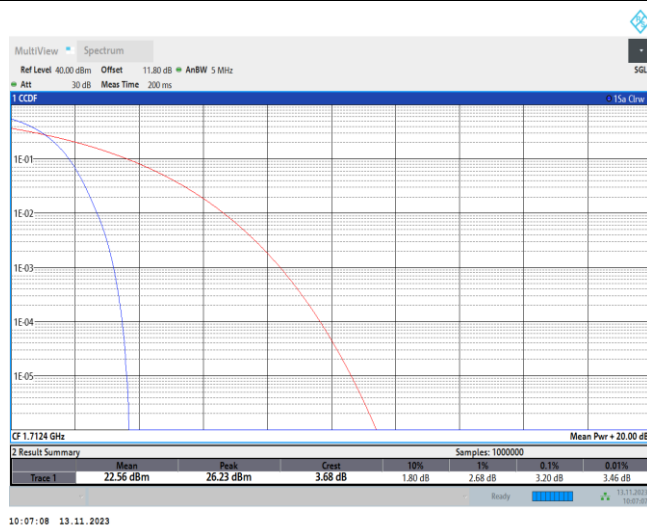
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### BandII-9538



### BandIV-1312



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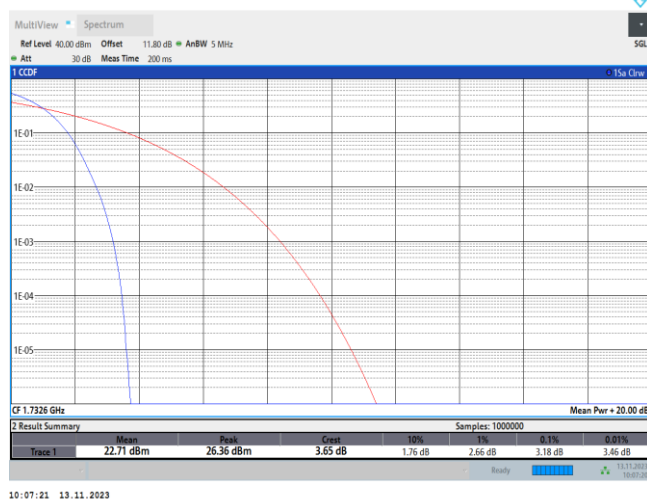


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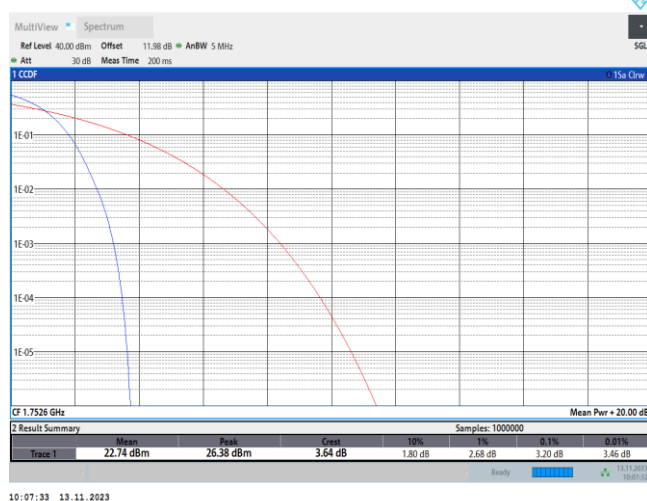
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### BandIV-1413



### BandIV-1513



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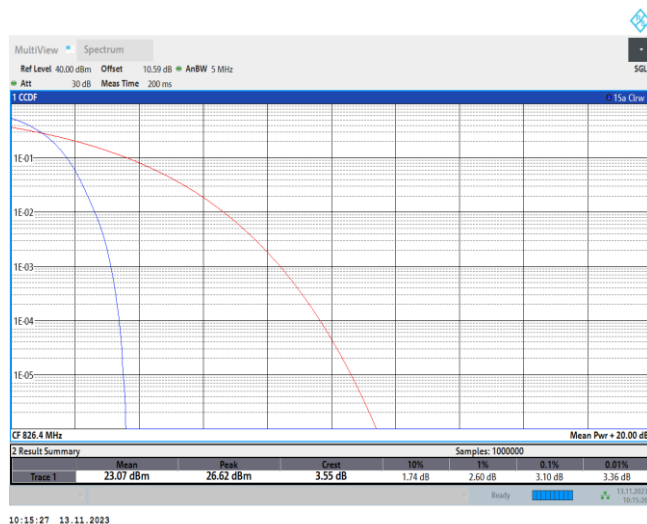
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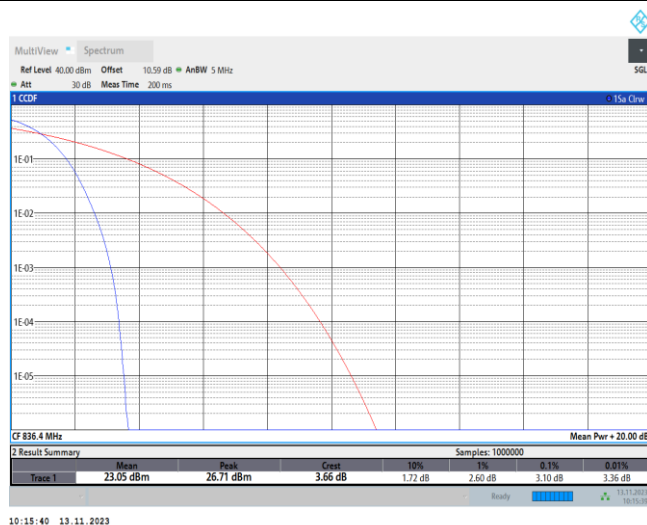
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### BandV-4132



### BandV-4182



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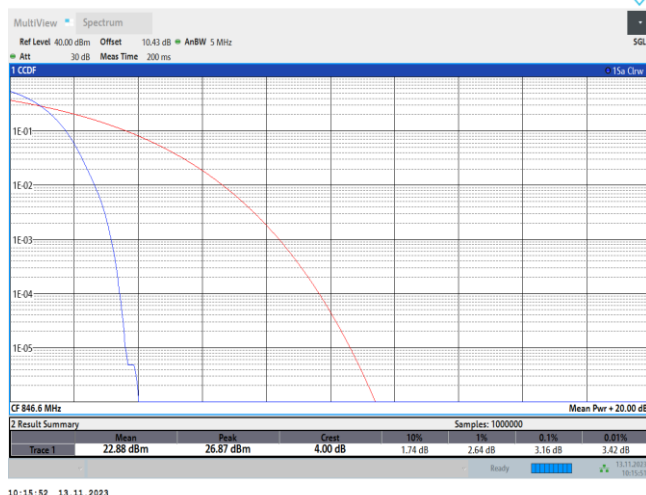
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### BandV-4233



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Rev.: 01

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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
BandII	9262	4.178	4.69	---	PASS
BandII	9400	4.187	4.72	---	PASS
BandII	9538	4.189	4.73	---	PASS
BandIV	1312	4.159	4.71	---	PASS
BandIV	1413	4.193	4.73	---	PASS
BandIV	1513	4.189	4.74	---	PASS
BandV	4132	4.201	4.71	---	PASS
BandV	4182	4.188	4.74	---	PASS
BandV	4233	4.178	4.74	---	PASS



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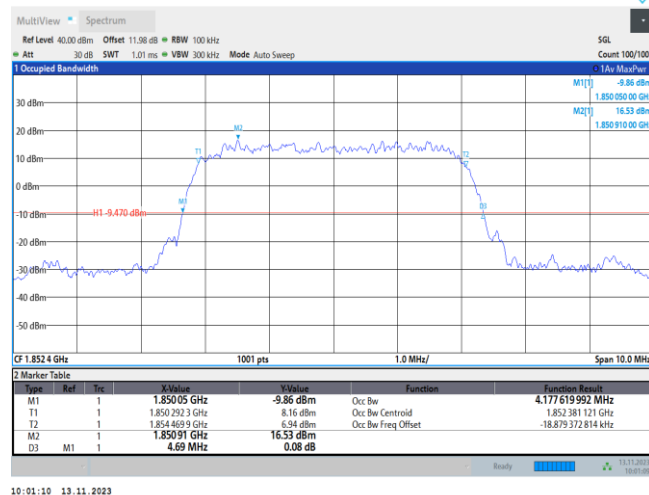
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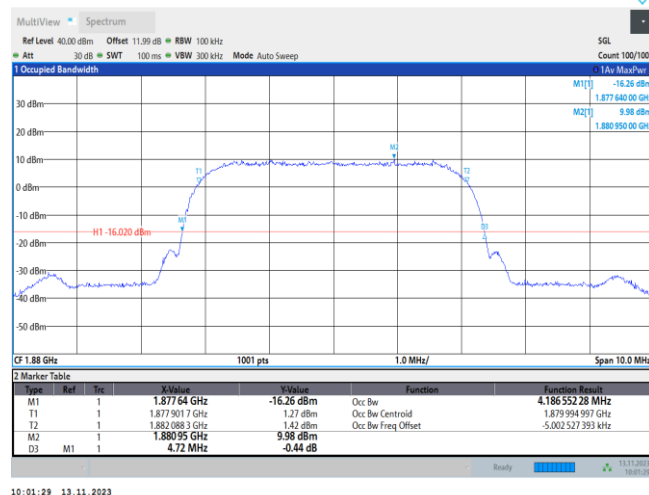
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## Test Graphs

BandII-9262



BandII-9400



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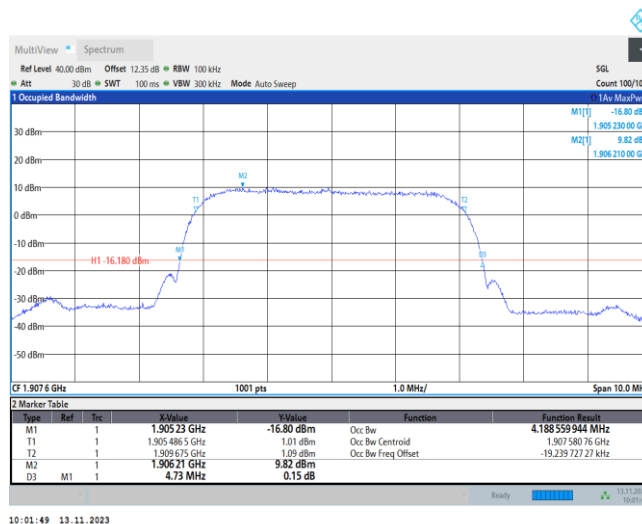
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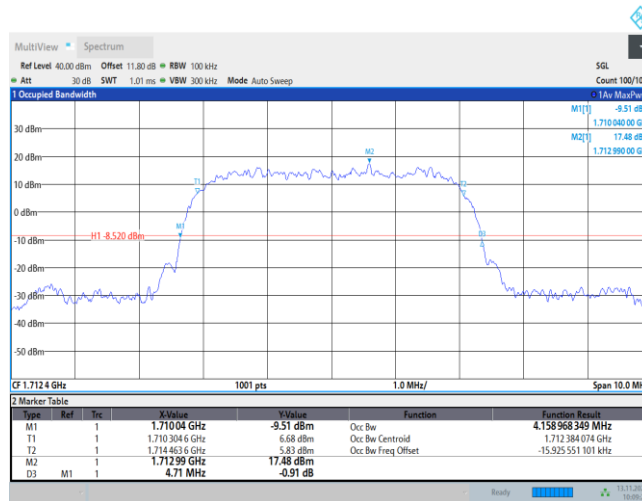
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## BandII-9538



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## BandIV-1312



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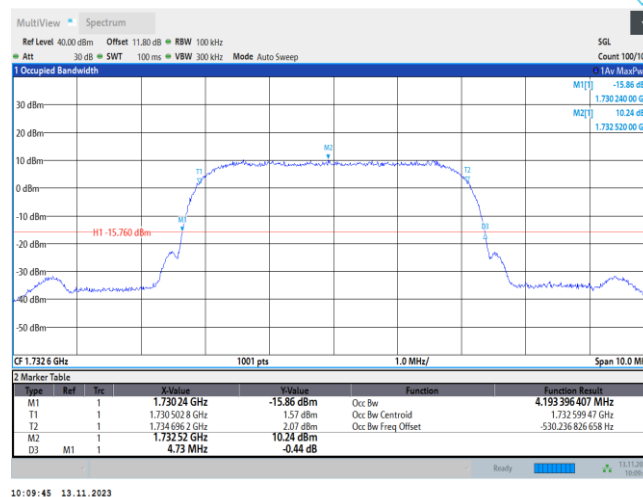
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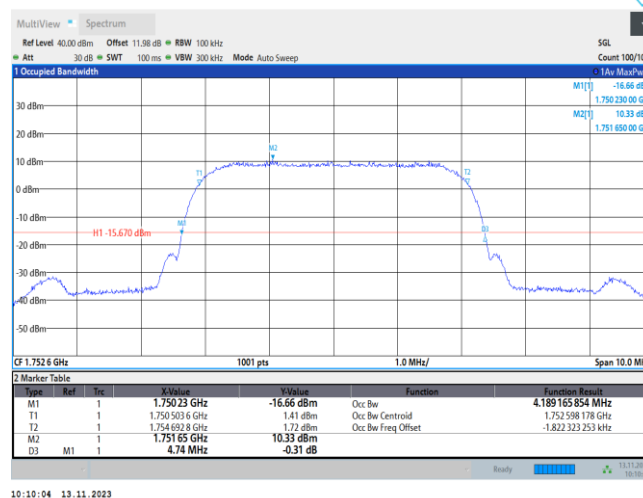
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Page: 12 of 53

## BandIV-1413



## BandIV-1513



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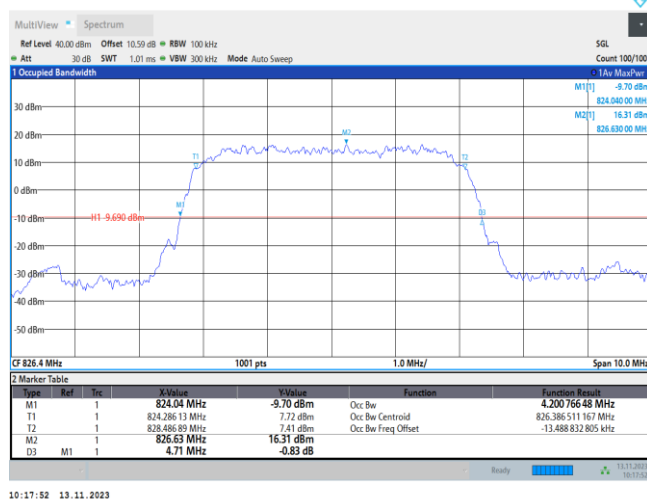
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Rev.: 01

Page: 13 of 53

## BandV-4132



## BandV-4182



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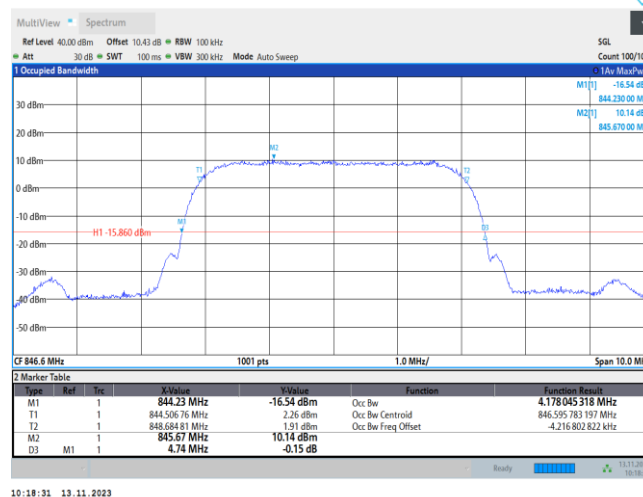


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Rev.: 01

Page: 14 of 53

BandV-4233



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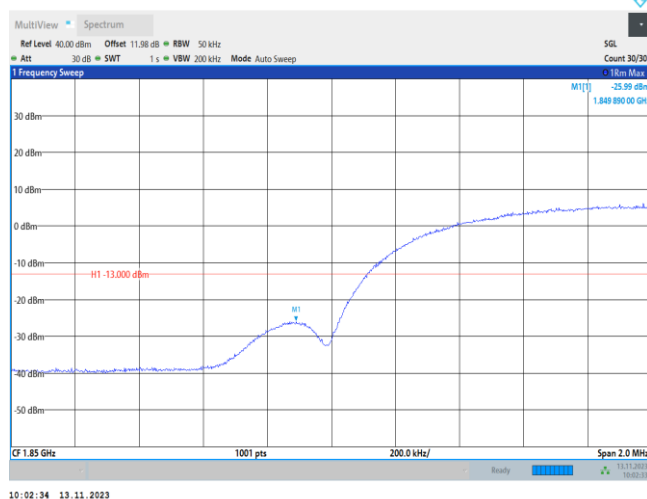
Rev.: 01

Page: 15 of 53

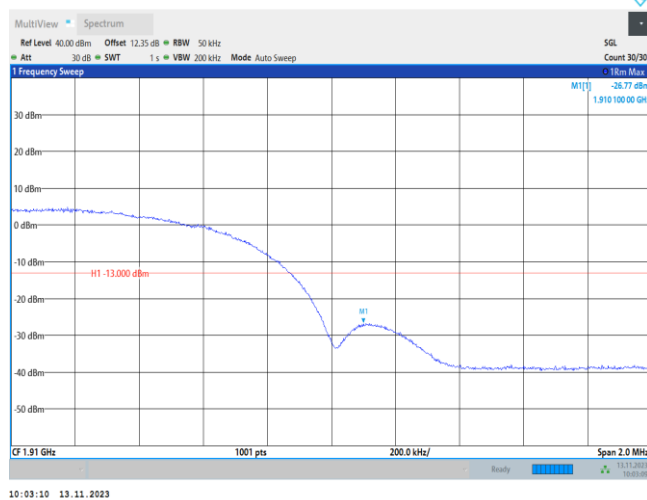
### Band Edge

### Test Graphs

BandII-9262



BandII-9538



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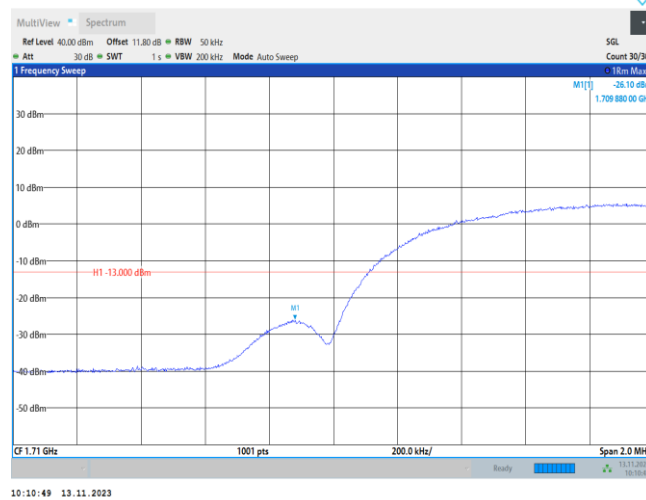
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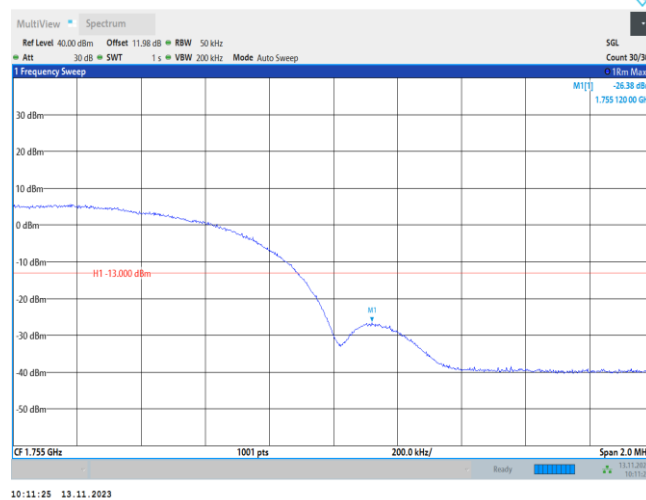
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## BandIV-1312



## BandIV-1513

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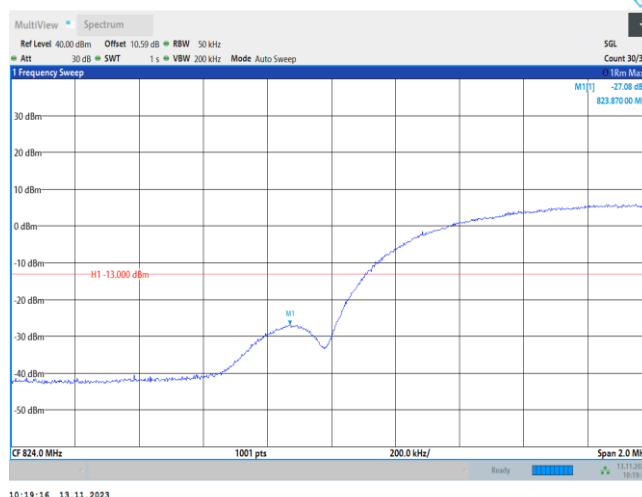
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Page: 17 of 53

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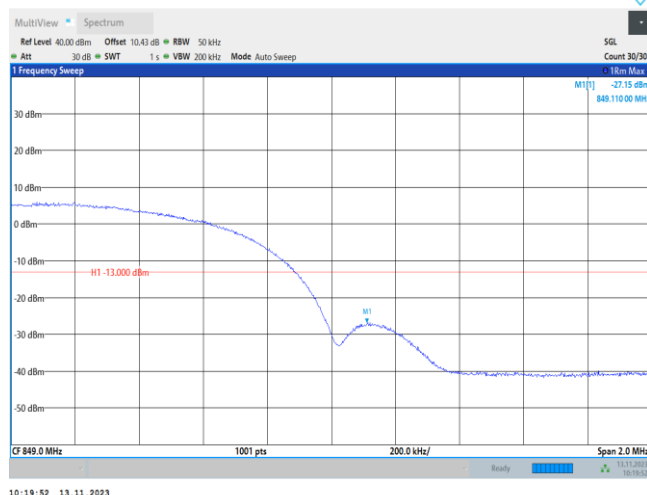
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Page: 18 of 53

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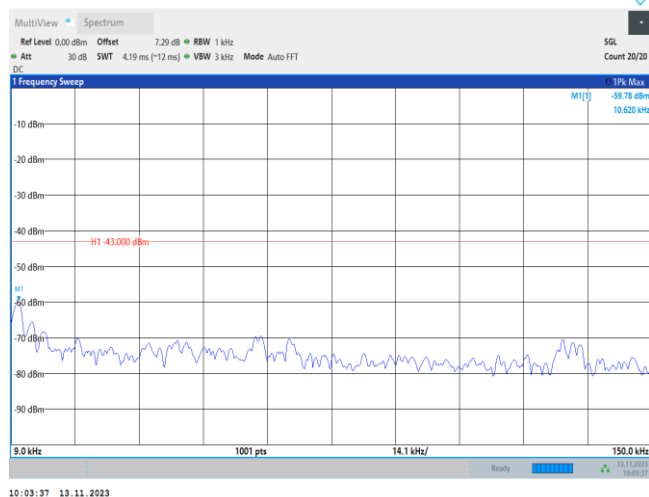
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Page: 19 of 53

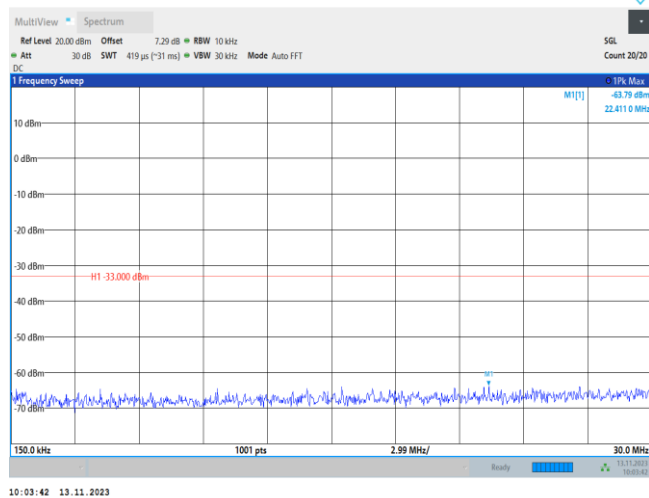
### Conducted Spurious Emission

#### Test Graphs

BandII-9262-0.009~0.15MHz



BandII-9262-0.15~30MHz



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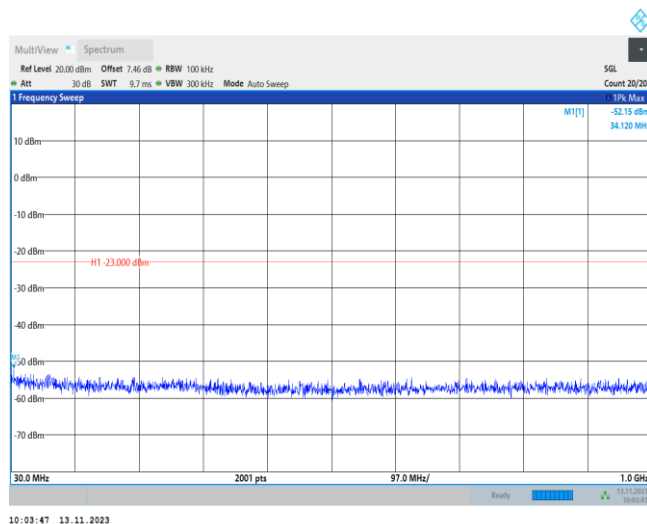
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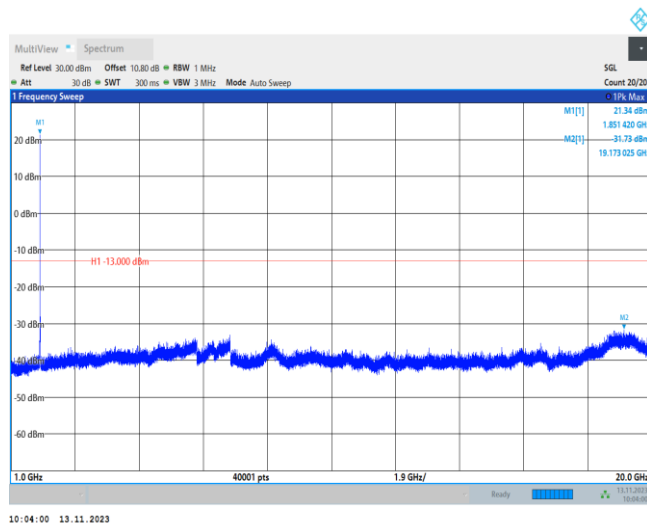
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### BandII-9262-30~1000MHz



### BandII-9262-1000~20000MHz



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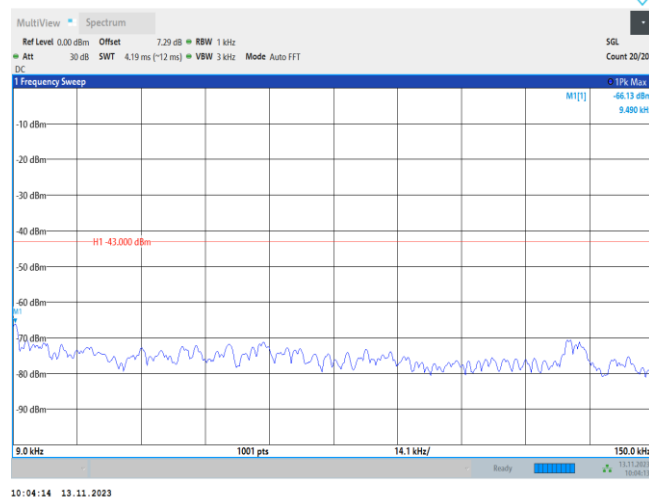


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Page: 21 of 53

BandII-9400-0.009~0.15MHz



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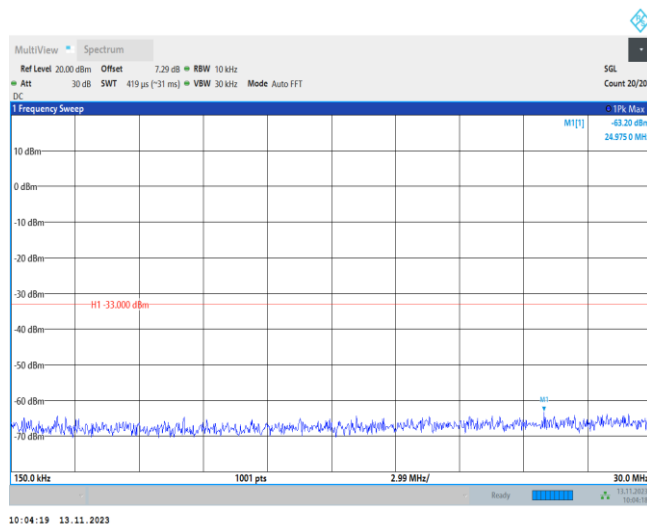
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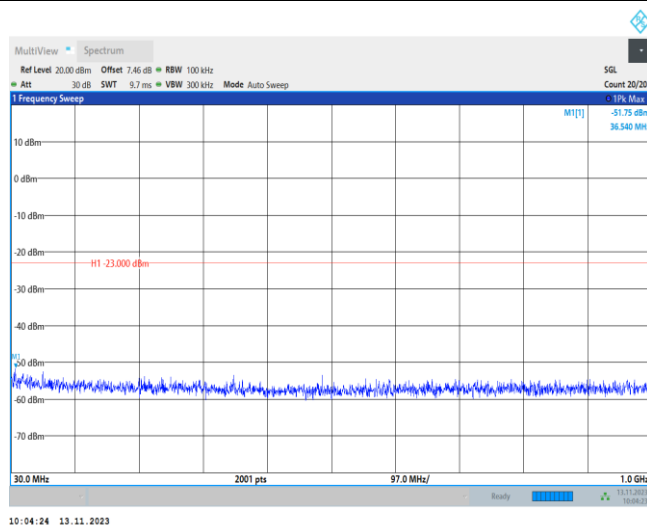
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### BandII-9400-0.15~30MHz



### BandII-9400-30~1000MHz



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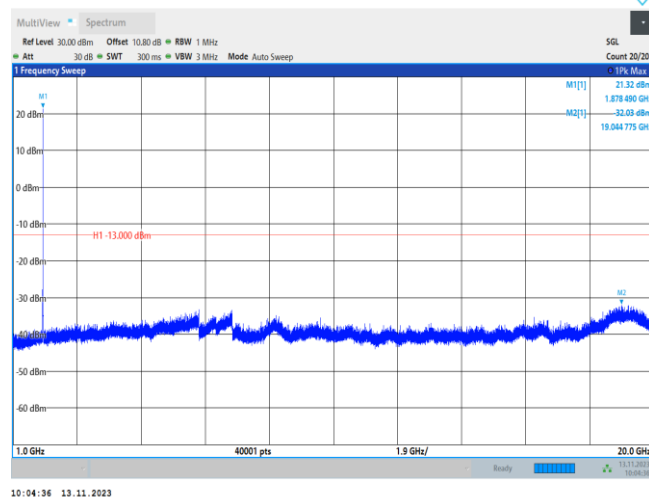
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## BandII-9400-1000~20000MHz



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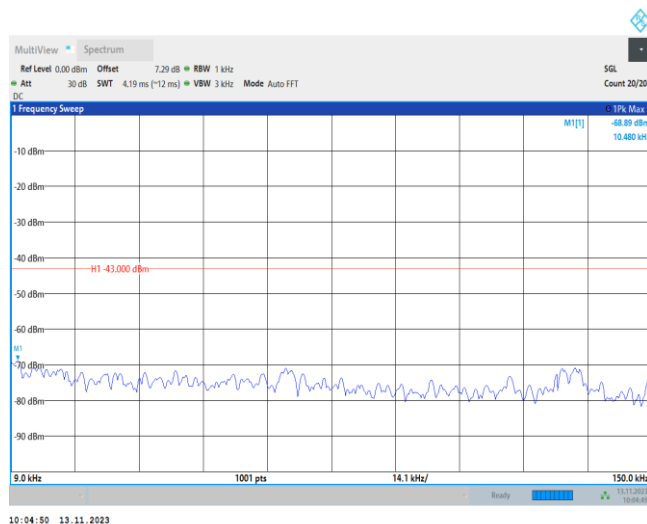


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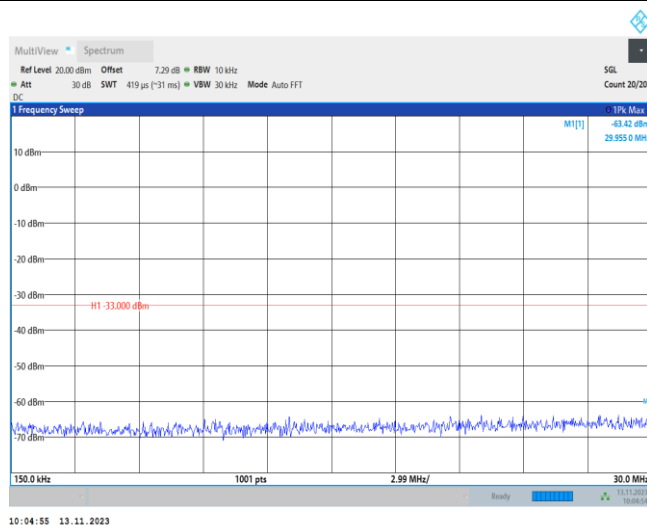
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### BandII-9538-0.009~0.15MHz



### BandII-9538-0.15~30MHz



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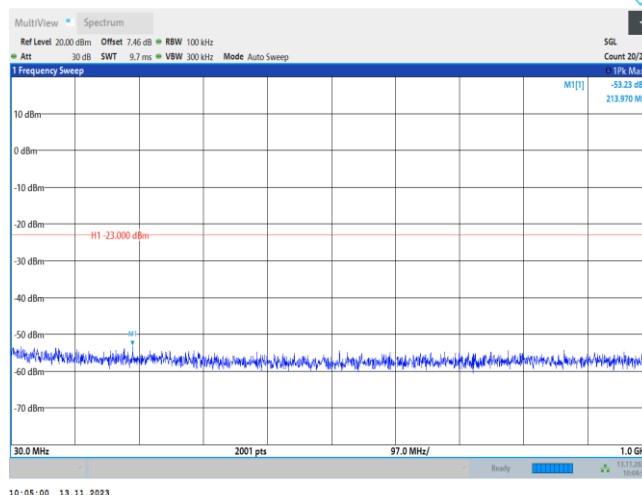
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Rev.: 01

Page: 25 of 53

## BandII-9538-30~1000MHz



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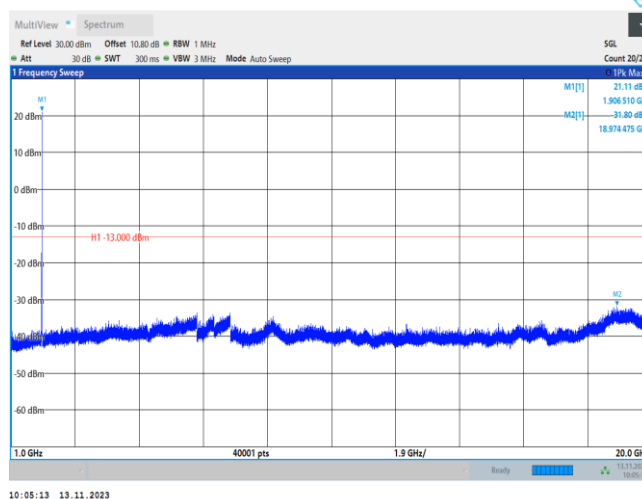
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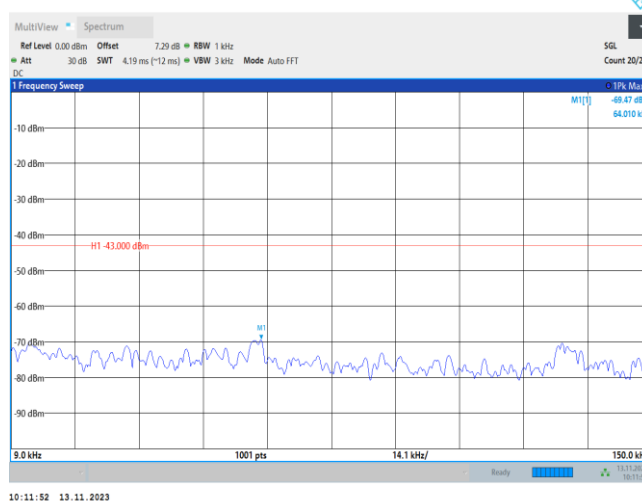
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Page: 26 of 53

### BandII-9538-1000~20000MHz



### BandIV-1312-0.009~0.15MHz



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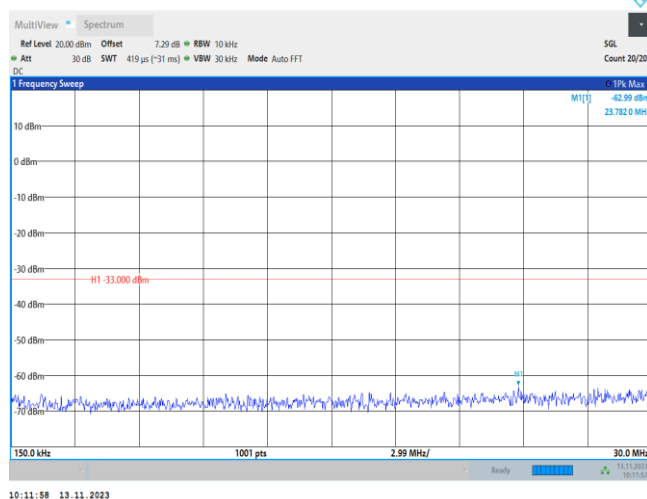
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Page: 27 of 53

### Band IV-1312-0.15~30MHz



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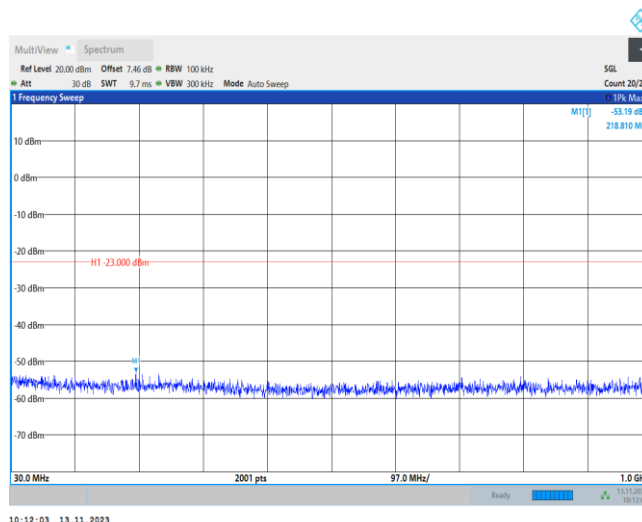
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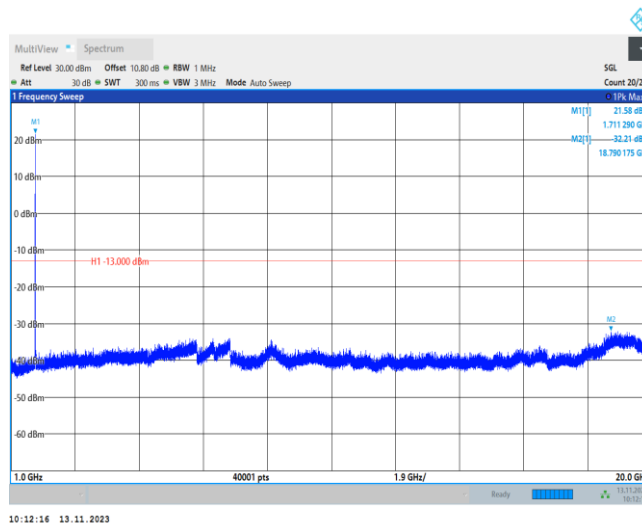
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### BandIV-1312-30~1000MHz



### BandIV-1312-1000~20000MHz



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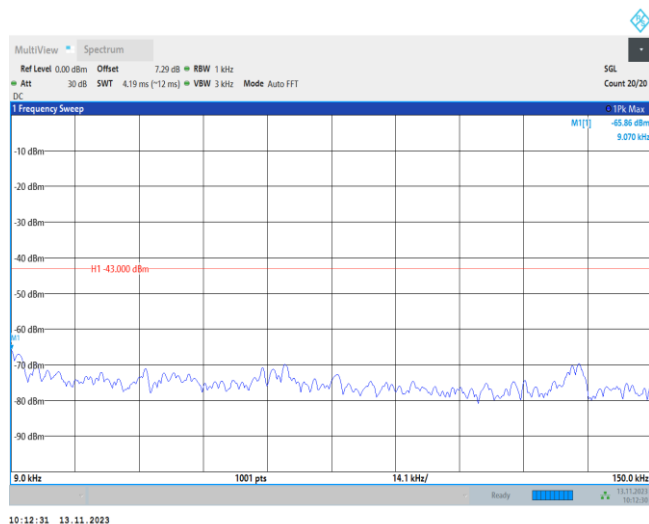
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Page: 29 of 53

### Band IV-1413-0.009~0.15MHz



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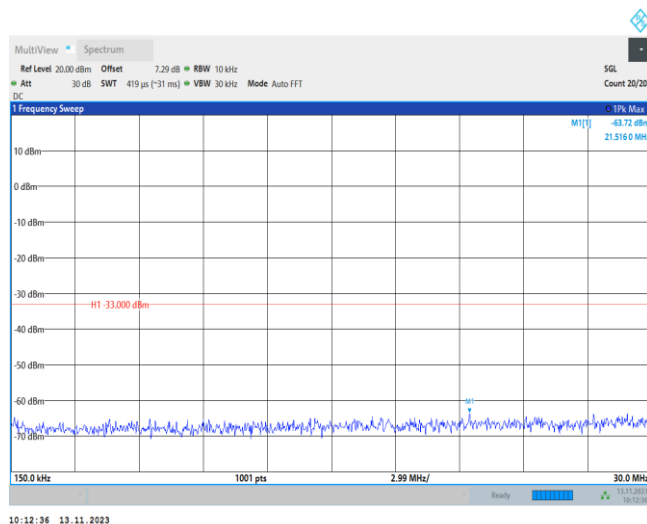


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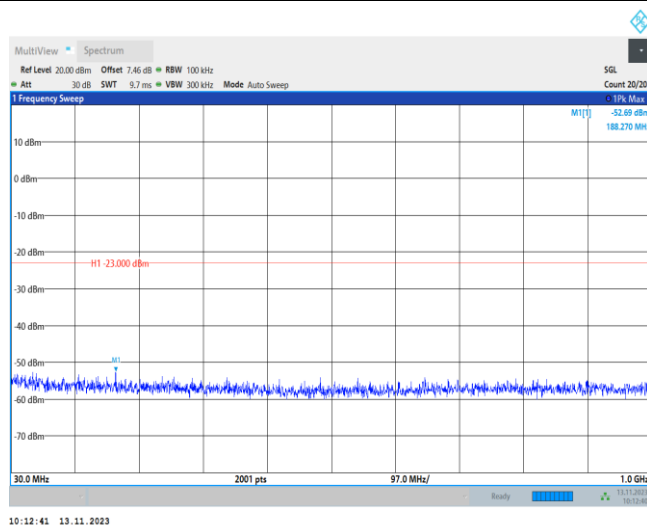
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Page: 30 of 53

### BandIV-1413-0.15~30MHz



### BandIV-1413-30~1000MHz



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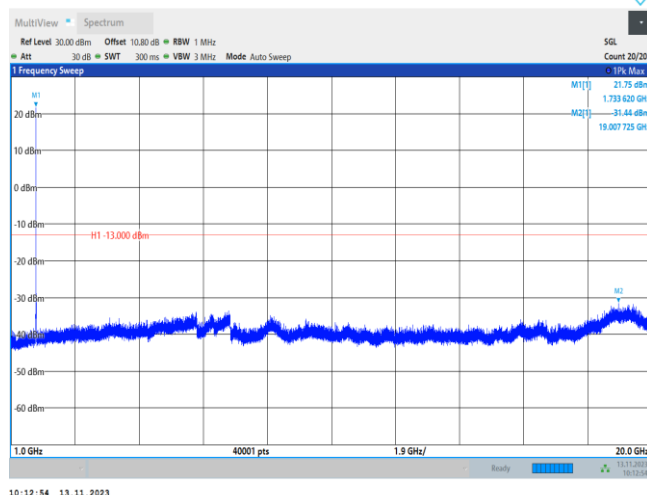
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### Band IV-1413-1000~20000MHz



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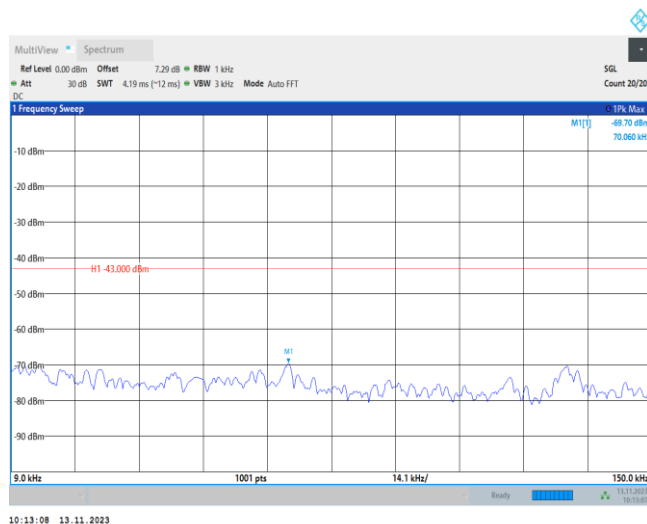
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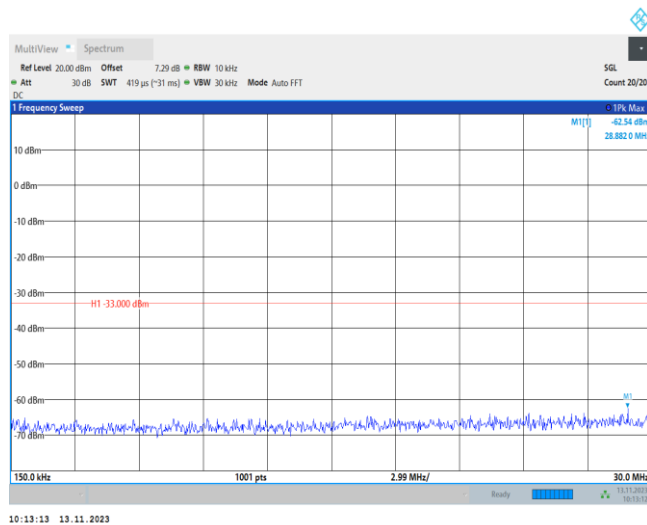
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### BandIV-1513-0.009~0.15MHz



### BandIV-1513-0.15~30MHz



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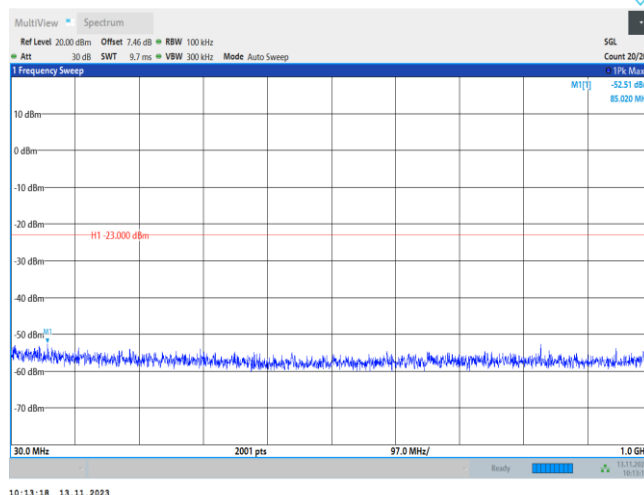
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### Band IV-1513-30~1000MHz



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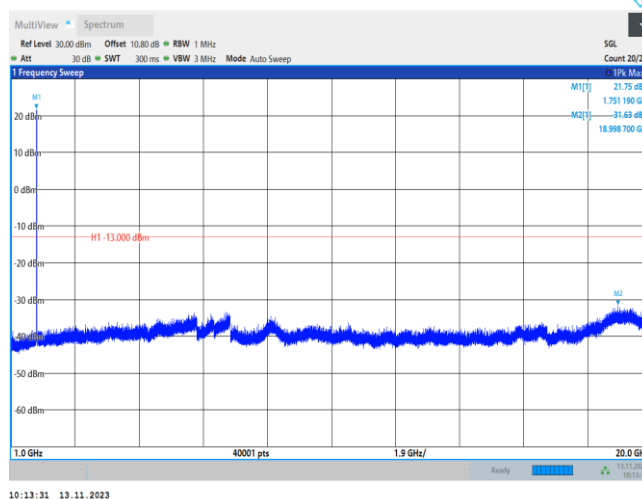
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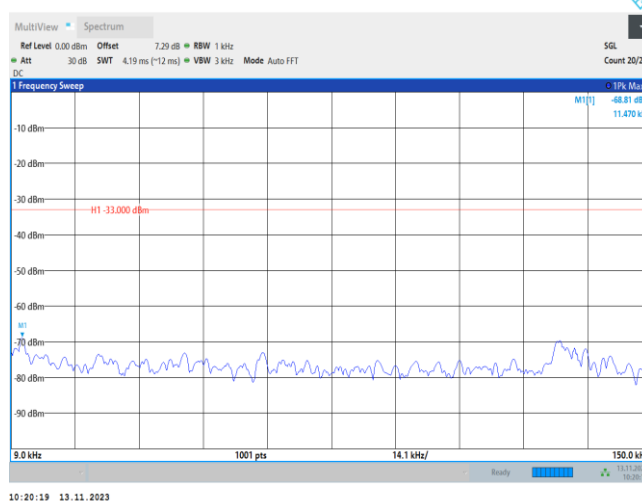
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### BandIV-1513-1000~20000MHz



### BandV-4132-0.009~0.15MHz



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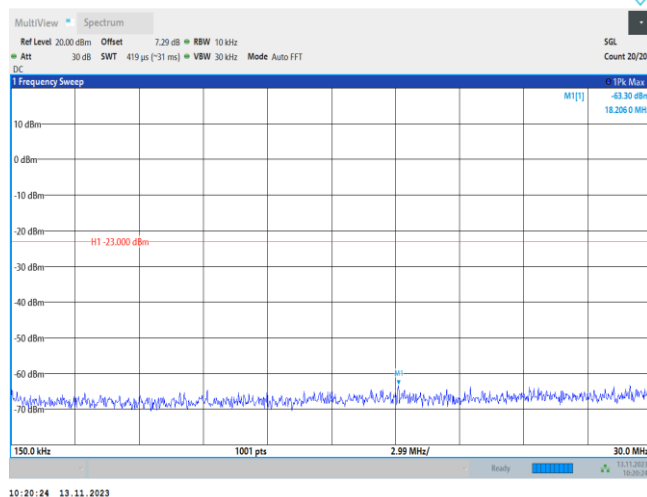
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### BandV-4132-0.15~30MHz



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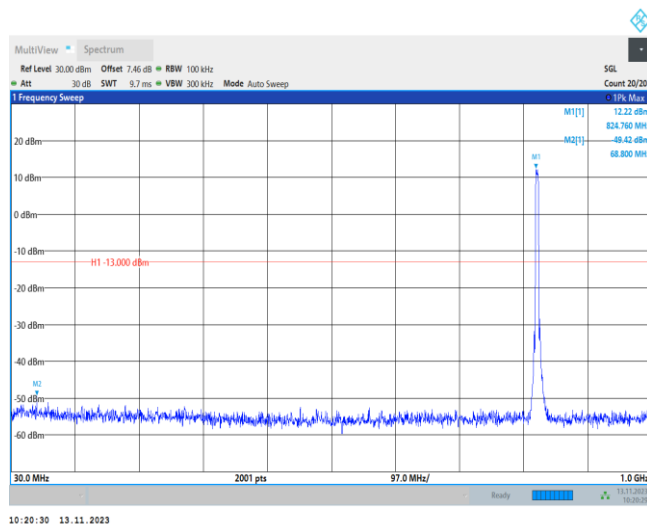


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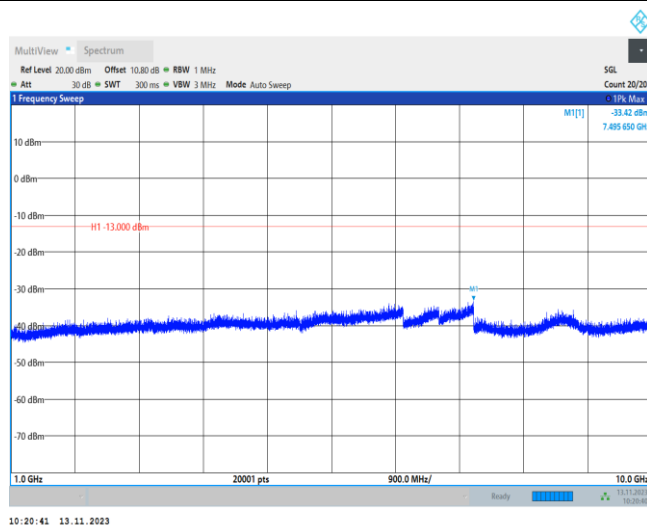
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Page: 36 of 53

### BandV-4132-30~1000MHz



### BandV-4132-1000~10000MHz



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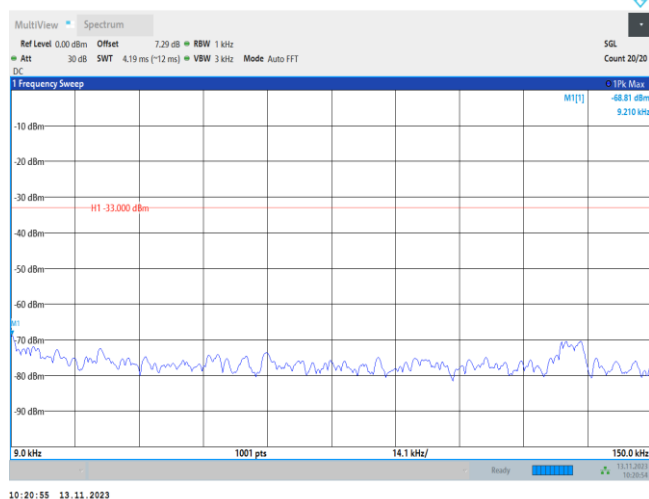
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Rev.: 01

Page: 37 of 53

### BandV-4182-0.009~0.15MHz



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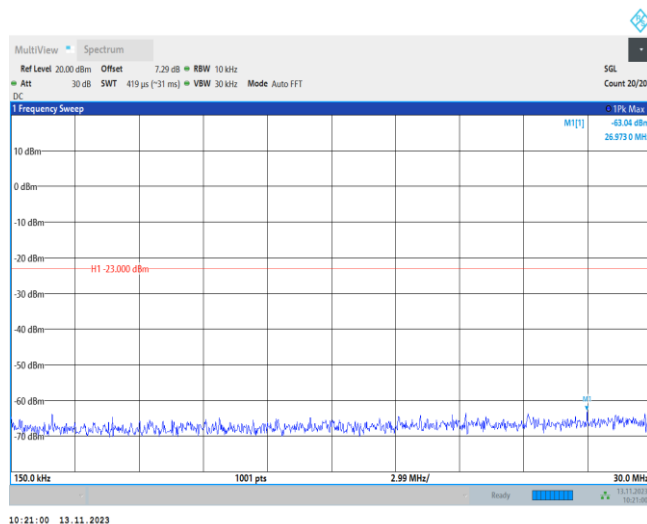
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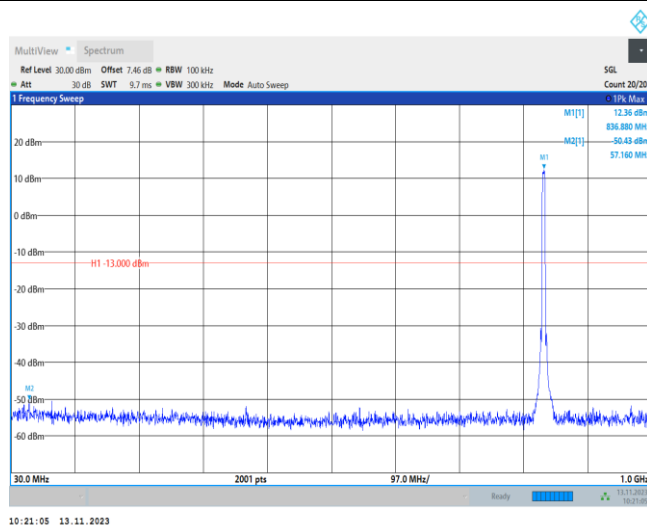
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Page: 38 of 53

### BandV-4182-0.15~30MHz



### BandV-4182-30~1000MHz



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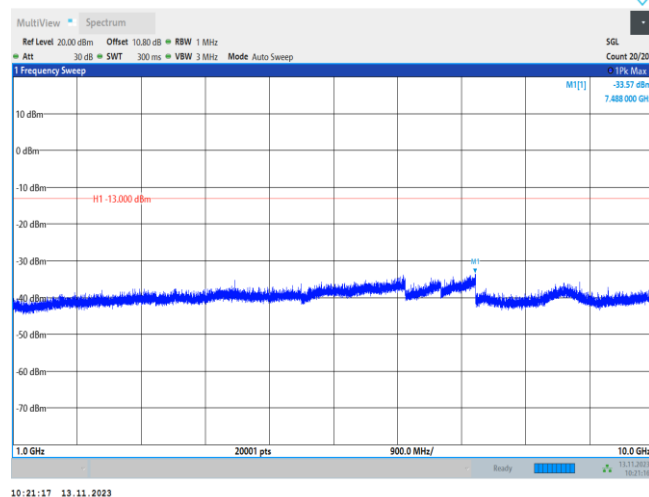
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Rev.: 01

Page: 39 of 53

## BandV-4182-1000~10000MHz



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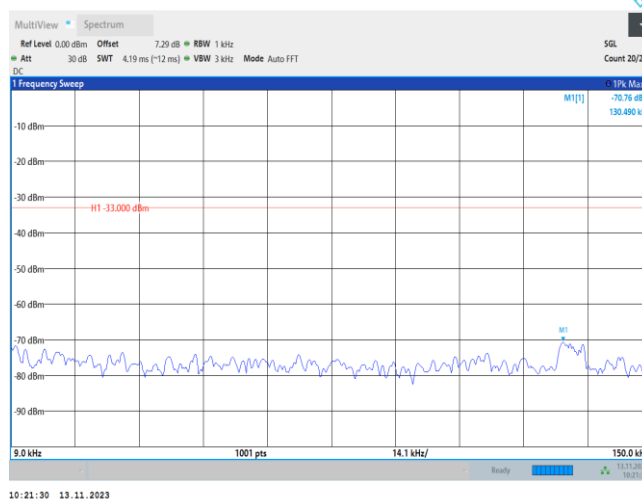
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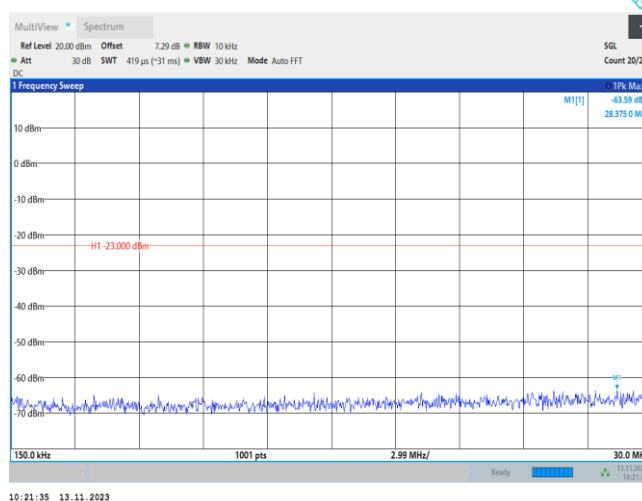
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Page: 40 of 53

### BandV-4233-0.009~0.15MHz



### BandV-4233-0.15~30MHz



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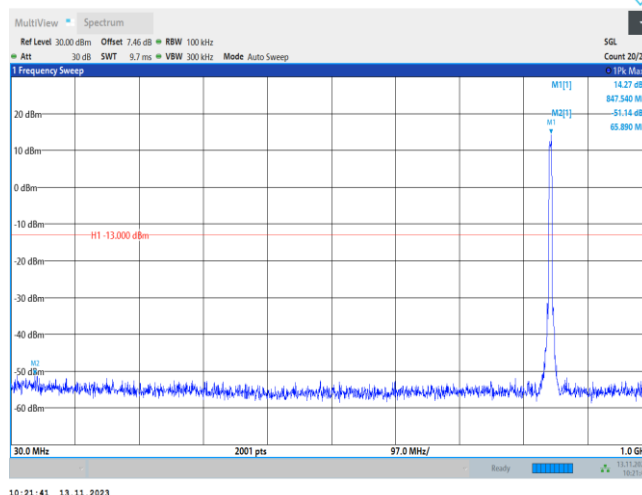
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Rev.: 01

Page: 41 of 53

### BandV-4233-30~1000MHz



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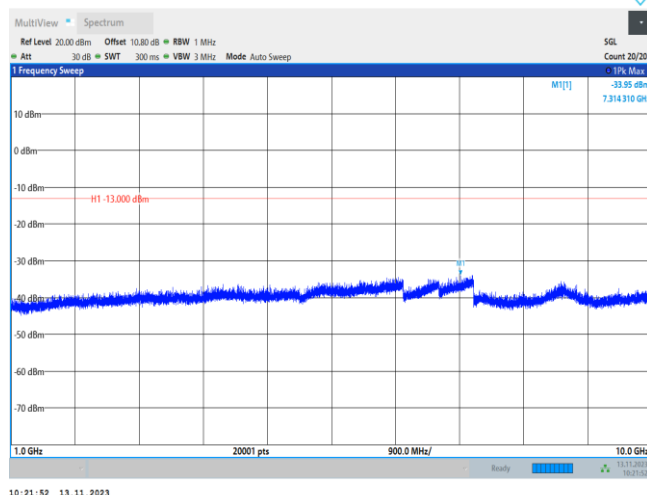


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Rev.: 01

Page: 42 of 53

### BandV-4233-1000~10000MHz



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Rev.: 01

Page: 43 of 53

## Field Strength of Spurious Radiation

Test Band = WCDMA\_Band II

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3456.0228	54.05	-49.98	29.62	-61.57	-13.00	48.57	Horizontal
2	4841.3421	52.89	-47.64	32.73	-57.28	-13.00	44.28	Horizontal
3	6527.4264	51.29	-44.67	35.15	-53.49	-13.00	40.49	Horizontal
4	9503.5752	50.27	-41.52	39.19	-47.32	-13.00	34.32	Horizontal
5	11901.4451	48.65	-37.73	39.50	-44.84	-13.00	31.84	Horizontal
6	15024.6012	49.40	-38.95	39.88	-44.93	-13.00	31.93	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3459.023	54.00	-49.92	29.64	-61.54	-13.00	48.54	Vertical
2	4477.5739	52.79	-48.12	31.84	-58.75	-13.00	45.75	Vertical
3	5680.634	51.86	-44.92	33.42	-54.90	-13.00	41.90	Vertical
4	8572.7786	50.16	-42.48	38.69	-48.89	-13.00	35.89	Vertical
5	11257.1629	48.71	-39.49	39.64	-46.40	-13.00	33.40	Vertical
6	15019.351	49.17	-38.91	39.88	-45.12	-13.00	32.12	Vertical



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Rev.: 01

Page: 44 of 53

Test Band = WCDMA\_Band II  
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3758.2879	54.09	-49.39	30.50	-60.06	-13.00	47.06	Horizontal
2	5133.1067	52.23	-47.09	33.57	-56.55	-13.00	43.55	Horizontal
3	7095.2048	50.48	-43.90	36.84	-51.84	-13.00	38.84	Horizontal
4	9538.0769	50.33	-41.59	39.12	-47.40	-13.00	34.40	Horizontal
5	13397.0199	47.67	-39.00	40.30	-46.29	-13.00	33.29	Horizontal
6	17969.9985	49.93	-43.46	42.62	-46.17	-13.00	33.17	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4056.8028	54.14	-49.37	30.87	-59.62	-13.00	46.62	Vertical
2	5682.1341	52.20	-44.90	33.43	-54.53	-13.00	41.53	Vertical
3	8557.7779	49.52	-42.33	38.96	-49.11	-13.00	36.11	Vertical
4	11335.1668	48.89	-39.33	39.64	-46.06	-13.00	33.06	Vertical
5	14276.0638	48.56	-39.73	40.72	-45.71	-13.00	32.71	Vertical
6	17983.4992	50.47	-43.79	42.70	-45.88	-13.00	32.88	Vertical



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Rev.: 01

Page: 45 of 53

Test Band = WCDMA\_Band II

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3736.5368	53.97	-49.54	30.45	-60.38	-13.00	47.38	Horizontal
2	5143.6072	52.70	-47.05	33.59	-56.02	-13.00	43.02	Horizontal
3	7109.4555	50.30	-43.84	36.94	-51.86	-13.00	38.86	Horizontal
4	9507.3254	50.21	-41.52	39.19	-47.38	-13.00	34.38	Horizontal
5	12224.7112	47.82	-37.97	39.55	-45.86	-13.00	32.86	Horizontal
6	17972.2486	49.88	-43.52	42.63	-46.27	-13.00	33.27	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3745.5373	53.81	-49.42	30.48	-60.39	-13.00	47.39	Vertical
2	5118.8559	52.27	-47.14	33.54	-56.59	-13.00	43.59	Vertical
3	7479.974	50.45	-43.32	36.64	-51.49	-13.00	38.49	Vertical
4	9499.825	50.32	-41.51	39.20	-47.25	-13.00	34.25	Vertical
5	11932.1966	47.81	-38.21	39.47	-46.19	-13.00	33.19	Vertical
6	17992.4996	50.43	-44.01	42.75	-46.09	-13.00	33.09	Vertical



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Rev.: 01

Page: 46 of 53

Test Band = WCDMA\_Band IV  
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3426.7713	55.75	-50.15	29.69	-59.97	-13.00	46.97	Horizontal
2	4236.8118	53.08	-48.51	31.94	-58.75	-13.00	45.75	Horizontal
3	5683.6342	51.61	-44.89	33.43	-55.11	-13.00	42.11	Horizontal
4	9445.0723	50.34	-41.34	38.97	-47.29	-13.00	34.29	Horizontal
5	15022.3511	48.99	-38.93	39.88	-45.32	-13.00	32.32	Horizontal
6	17927.2464	49.52	-42.98	42.36	-46.36	-13.00	33.36	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3936.7968	53.27	-49.08	30.82	-60.25	-13.00	47.25	Vertical
2	5142.8571	52.24	-47.06	33.59	-56.49	-13.00	43.49	Vertical
3	7498.7249	50.69	-43.18	36.60	-51.15	-13.00	38.15	Vertical
4	9486.3243	50.05	-41.46	39.15	-47.52	-13.00	34.52	Vertical
5	11899.945	47.84	-37.71	39.50	-45.63	-13.00	32.63	Vertical
6	15025.3513	48.99	-38.96	39.87	-45.36	-13.00	32.36	Vertical



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Report No.: XEWM2311000573RG01

Rev.: 01

Page: 47 of 53

Test Band = WCDMA\_Band IV  
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.788	53.62	-49.40	30.50	-60.54	-13.00	47.54	Horizontal
2	5676.8838	51.91	-44.96	33.41	-54.90	-13.00	41.90	Horizontal
3	8558.5279	49.64	-42.34	38.95	-49.01	-13.00	36.01	Horizontal
4	11383.9192	48.72	-39.34	39.68	-46.20	-13.00	33.20	Horizontal
5	15023.8512	48.80	-38.95	39.88	-45.53	-13.00	32.53	Horizontal
6	17951.2476	49.45	-43.01	42.51	-46.31	-13.00	33.31	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3753.7877	53.60	-49.38	30.50	-60.54	-13.00	47.54	Vertical
2	5259.113	51.87	-46.52	33.36	-56.55	-13.00	43.55	Vertical
3	7107.2054	50.67	-43.83	36.93	-51.49	-13.00	38.49	Vertical
4	9463.0732	50.41	-41.38	39.05	-47.18	-13.00	34.18	Vertical
5	13382.0191	48.09	-39.13	40.30	-46.00	-13.00	33.00	Vertical
6	17988.7494	50.39	-43.92	42.73	-46.06	-13.00	33.06	Vertical



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Rev.: 01

Page: 48 of 53

Test Band = WCDMA\_Band IV

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3754.5377	53.73	-49.38	30.50	-60.41	-13.00	47.41	Horizontal
2	5145.1073	52.10	-47.05	33.59	-56.62	-13.00	43.62	Horizontal
3	7480.724	50.71	-43.31	36.64	-51.22	-13.00	38.22	Horizontal
4	9507.3254	50.34	-41.52	39.19	-47.25	-13.00	34.25	Horizontal
5	14986.3493	48.80	-38.99	39.95	-45.50	-13.00	32.50	Horizontal
6	17985.7493	49.83	-43.85	42.71	-46.57	-13.00	33.57	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4887.8444	52.09	-47.57	33.03	-57.71	-13.00	44.71	Vertical
2	5690.3845	51.68	-44.82	33.46	-54.94	-13.00	41.94	Vertical
3	9007.8004	49.09	-41.68	38.78	-49.07	-13.00	36.07	Vertical
4	11905.9453	47.48	-37.80	39.49	-46.09	-13.00	33.09	Vertical
5	14268.5634	48.97	-39.73	40.73	-45.29	-13.00	32.29	Vertical
6	17951.9976	49.35	-43.03	42.51	-46.43	-13.00	33.43	Vertical



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Rev.: 01

Page: 49 of 53

Test Band = WCDMA\_Band V  
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1152	56.47	-53.37	25.89	-66.27	-13.00	53.27	Horizontal
2	1651	58.69	-52.87	25.90	-63.54	-13.00	50.54	Horizontal
3	2482	56.54	-51.23	27.96	-61.99	-13.00	48.99	Horizontal
4	3749.5	54.22	-48.89	30.50	-59.43	-13.00	46.43	Horizontal
5	5690	51.24	-43.38	33.46	-53.94	-13.00	40.94	Horizontal
6	8850.5	48.94	-41.07	38.60	-48.79	-13.00	35.79	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1152	56.23	-53.37	25.89	-66.51	-13.00	53.51	Vertical
2	1651	58.02	-52.87	25.90	-64.21	-13.00	51.21	Vertical
3	2483	54.79	-51.23	27.97	-63.73	-13.00	50.73	Vertical
4	3307	53.14	-49.72	30.56	-61.28	-13.00	48.28	Vertical
5	5132.5	51.86	-44.22	33.57	-54.05	-13.00	41.05	Vertical
6	7089	50.22	-43.33	36.77	-51.60	-13.00	38.60	Vertical



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Rev.: 01

Page: 50 of 53

Test Band = WCDMA\_Band V  
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1344	55.91	-53.76	25.86	-67.25	-13.00	54.25	Horizontal
2	1767	55.26	-53.08	25.57	-67.51	-13.00	54.51	Horizontal
3	2506.5	55.02	-51.16	28.04	-63.36	-13.00	50.36	Horizontal
4	2937.5	53.79	-50.81	29.25	-63.03	-13.00	50.03	Horizontal
5	5138.5	52.27	-44.26	33.58	-53.67	-13.00	40.67	Horizontal
6	8543	48.89	-41.48	38.93	-48.92	-13.00	35.92	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1198.5	55.24	-53.48	25.61	-67.89	-13.00	54.89	Vertical
2	1677	54.63	-52.75	25.85	-67.53	-13.00	54.53	Vertical
3	2541	60.72	-50.95	28.25	-57.24	-13.00	44.24	Vertical
4	3752	54.22	-48.86	30.50	-59.40	-13.00	46.40	Vertical
5	5138	52.23	-44.25	33.58	-53.70	-13.00	40.70	Vertical
6	8559	49.16	-41.48	38.94	-48.64	-13.00	35.64	Vertical



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Rev.: 01

Page: 51 of 53

Test Band = WCDMA\_Band V  
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.5	61.20	-52.69	25.82	-60.93	-13.00	47.93	Horizontal
2	2543	57.81	-50.94	28.26	-60.13	-13.00	47.13	Horizontal
3	3703	54.33	-49.16	30.31	-59.78	-13.00	46.78	Horizontal
4	4252	52.48	-47.25	32.09	-57.94	-13.00	44.94	Horizontal
5	5443.5	51.14	-44.33	33.36	-55.09	-13.00	42.09	Horizontal
6	6081	50.88	-43.84	34.46	-53.76	-13.00	40.76	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691	64.62	-52.69	25.82	-57.51	-13.00	44.51	Vertical
2	2535	57.37	-50.99	28.21	-60.67	-13.00	47.67	Vertical
3	4066	53.04	-48.40	30.84	-59.78	-13.00	46.78	Vertical
4	5145.5	51.96	-44.29	33.59	-54.00	-13.00	41.00	Vertical
5	7033	50.72	-43.63	36.37	-51.80	-13.00	38.80	Vertical
6	9430.5	49.54	-40.03	38.88	-46.87	-13.00	33.87	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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Rev.: 01

Page: 52 of 53

## Frequency Stability

### Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	VL	NT	-12.59	-0.015053	±2.5	PASS
BandV	4182	VN	NT	-10.14	-0.012123	±2.5	PASS
BandV	4182	VH	NT	-6.34	-0.007580	±2.5	PASS

Voltage						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	VL	NT	-9.58	-0.005096	PASS
BandII	9400	VN	NT	-6.99	-0.003718	PASS
BandII	9400	VH	NT	-10.08	-0.005362	PASS
BandIV	1413	VL	NT	-11.58	-0.006684	PASS
BandIV	1413	VN	NT	-10.81	-0.006239	PASS
BandIV	1413	VH	NT	-12.17	-0.007024	PASS



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Rev.: 01

Page: 53 of 53

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	NV	-30	-8.65	-0.010342	±2.5	PASS
BandV	4182	NV	-20	-11.64	-0.013917	±2.5	PASS
BandV	4182	NV	-10	-4.95	-0.005918	±2.5	PASS
BandV	4182	NV	0	-7.32	-0.008752	±2.5	PASS
BandV	4182	NV	10	-10.29	-0.012303	±2.5	PASS
BandV	4182	NV	20	-7.52	-0.008991	±2.5	PASS
BandV	4182	NV	30	-10.34	-0.012363	±2.5	PASS
BandV	4182	NV	40	-13.89	-0.016607	±2.5	PASS
BandV	4182	NV	50	-7.98	-0.009541	±2.5	PASS

Temperature						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	NV	-30	-11.36	-0.006043	PASS
BandII	9400	NV	-20	-10.91	-0.005803	PASS
BandII	9400	NV	-10	-12.93	-0.006878	PASS
BandII	9400	NV	0	-15.54	-0.008266	PASS
BandII	9400	NV	10	-8.24	-0.004383	PASS
BandII	9400	NV	20	-9.84	-0.005234	PASS
BandII	9400	NV	30	-12.84	-0.006830	PASS
BandII	9400	NV	40	-9.17	-0.004878	PASS
BandII	9400	NV	50	-12.57	-0.006686	PASS
BandIV	1413	NV	-30	-13.88	-0.008011	PASS
BandIV	1413	NV	-20	-13.07	-0.007544	PASS
BandIV	1413	NV	-10	-10.16	-0.005864	PASS
BandIV	1413	NV	0	-11.54	-0.006661	PASS
BandIV	1413	NV	10	-13.25	-0.007647	PASS
BandIV	1413	NV	20	-9.78	-0.005645	PASS
BandIV	1413	NV	30	-11.64	-0.006718	PASS
BandIV	1413	NV	40	-8.28	-0.004779	PASS
BandIV	1413	NV	50	-11.17	-0.006447	PASS

---End of Attachment---



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