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Appendix B.2

WCDMA Band II&IV&V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
BandII	9262	24.90	23.8	33.00	PASS
BandII	9400	24.94	23.84	33.00	PASS
BandII	9538	25.28	24.18	33.00	PASS
BandIV	1312	25.26	24.94	30.00	PASS
BandIV	1413	25.13	24.81	30.00	PASS
BandIV	1513	24.82	24.5	30.00	PASS

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
BandV	4132	25.19	21.16	38.45	PASS
BandV	4182	25.22	21.19	38.45	PASS
BandV	4233	25.19	21.16	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	2.66	13	PASS
BandII	9400	2.74	13	PASS
BandII	9538	2.78	13	PASS
BandIV	1312	2.74	13	PASS
BandIV	1413	2.82	13	PASS
BandIV	1513	2.86	13	PASS
BandV	4132	2.64	13	PASS
BandV	4182	2.58	13	PASS
BandV	4233	2.66	13	PASS



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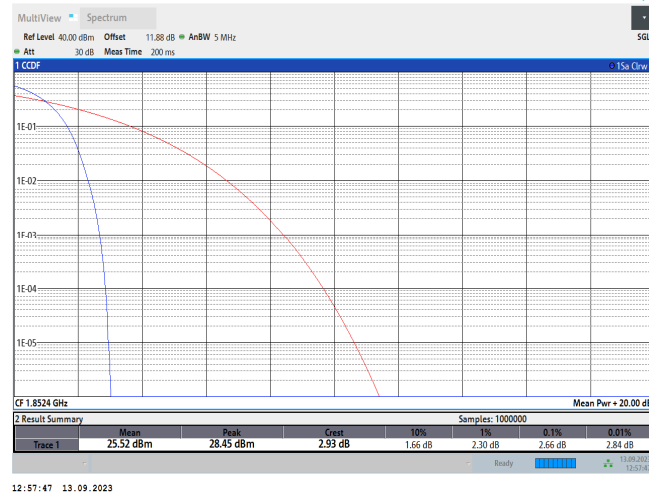
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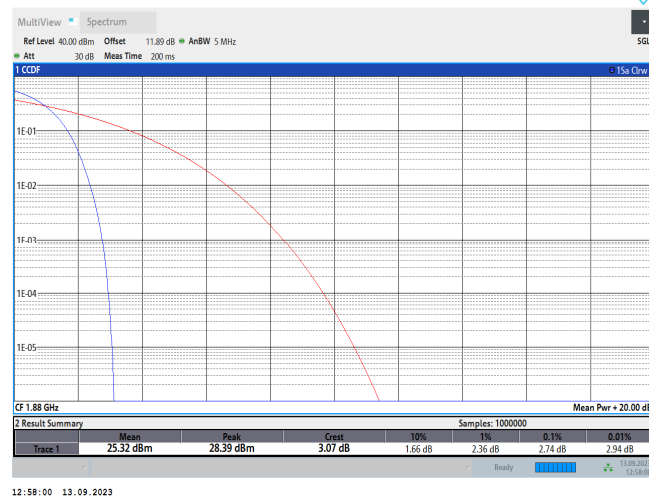
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Test Graphs

BandII-9262



BandII-9400



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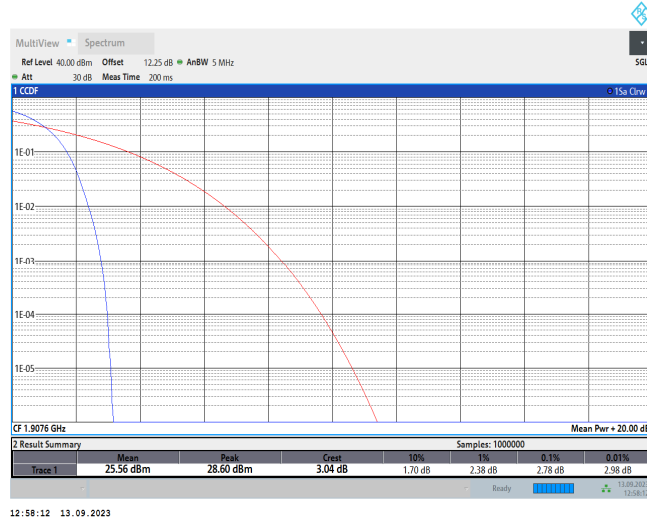


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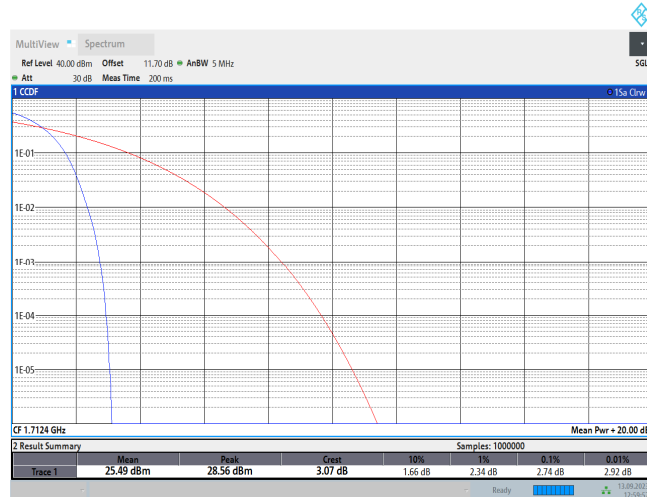
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BandII-9538



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BandIV-1312



12:59:57 13.09.2023



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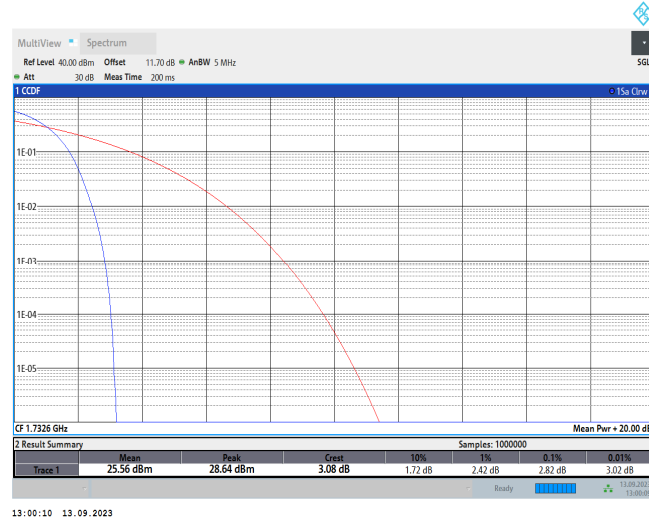


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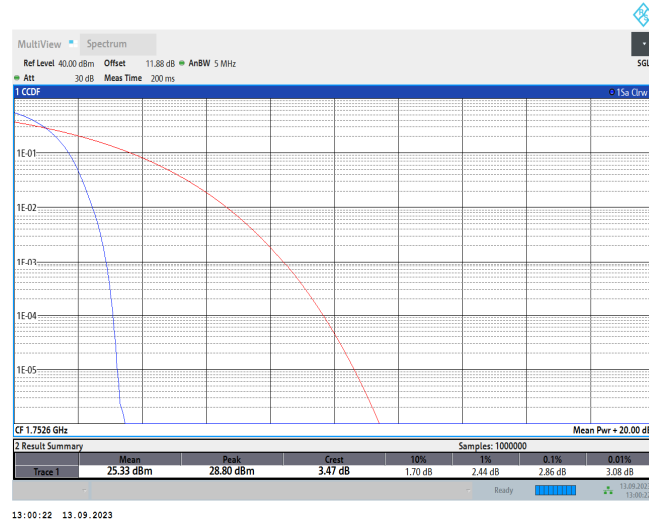
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BandIV-1513



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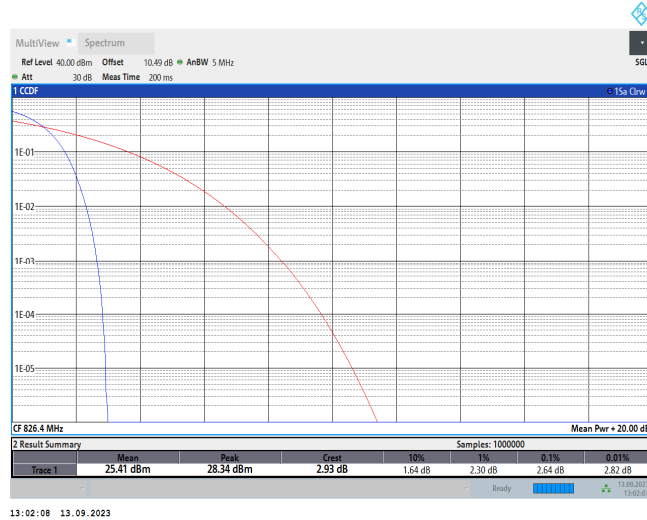


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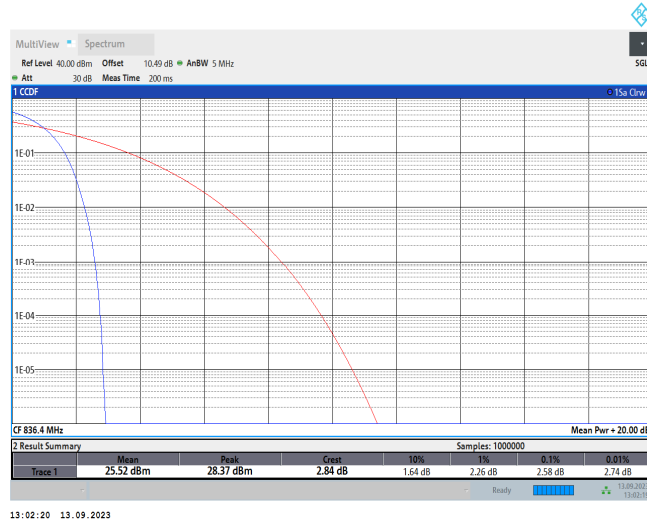
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BandV-4182



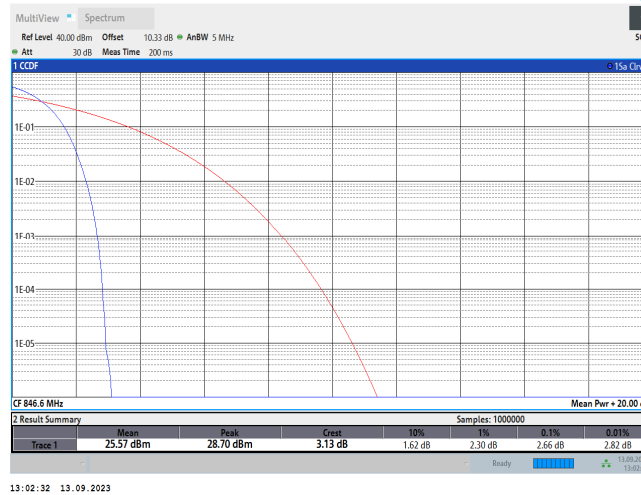


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
BandII	9262	4.197	4.71	---	PASS
BandII	9400	4.189	4.77	---	PASS
BandII	9538	4.201	4.77	---	PASS
BandIV	1312	4.191	4.77	---	PASS
BandIV	1413	4.19	4.74	---	PASS
BandIV	1513	4.199	4.75	---	PASS
BandV	4132	4.193	4.74	---	PASS
BandV	4182	4.196	4.75	---	PASS
BandV	4233	4.184	4.76	---	PASS



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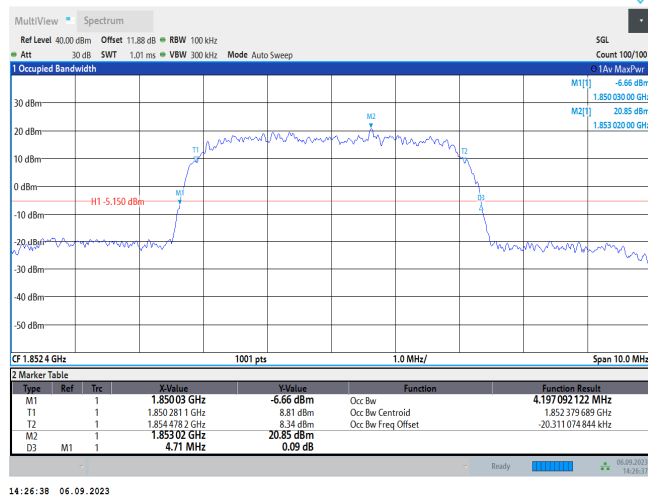
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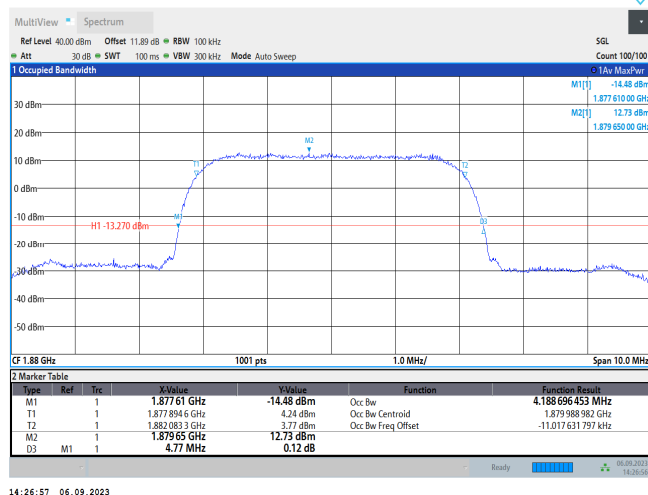
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Test Graphs

BandII-9262

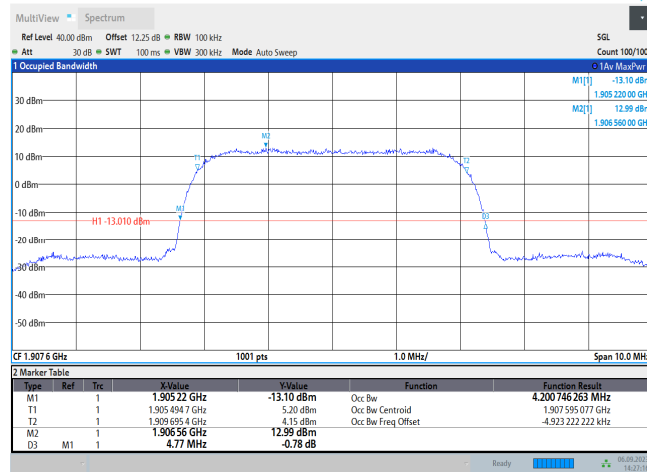


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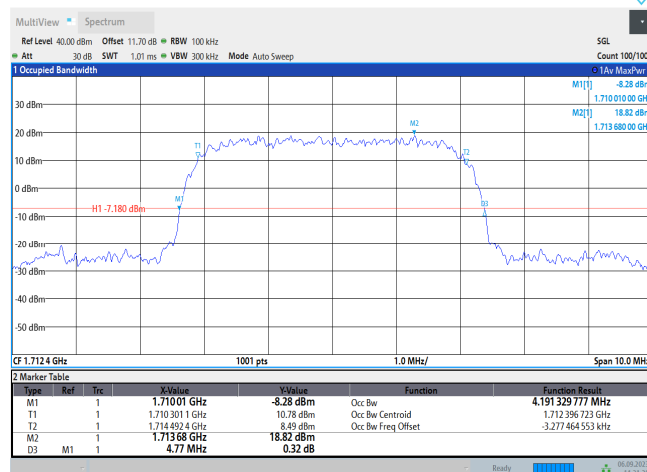


BandII-9538



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BandIV-1312



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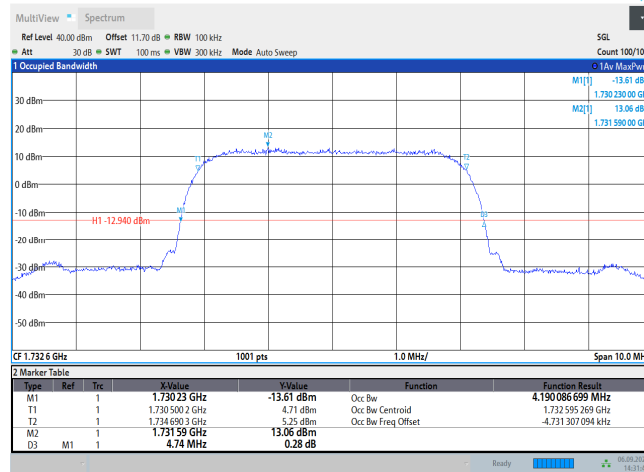
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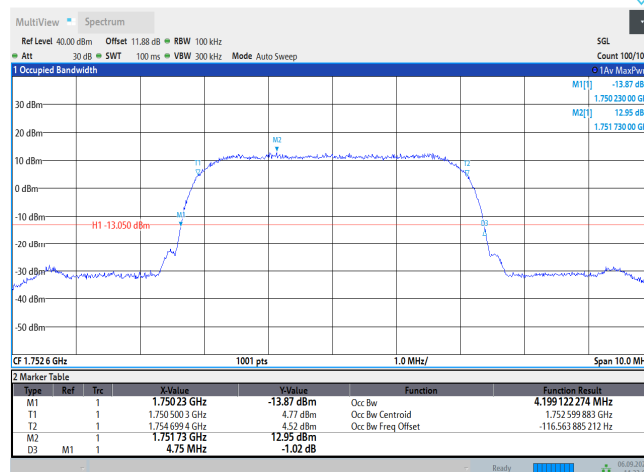
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BandIV-1413



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BandIV-1513



14:32:07 06.09.2023



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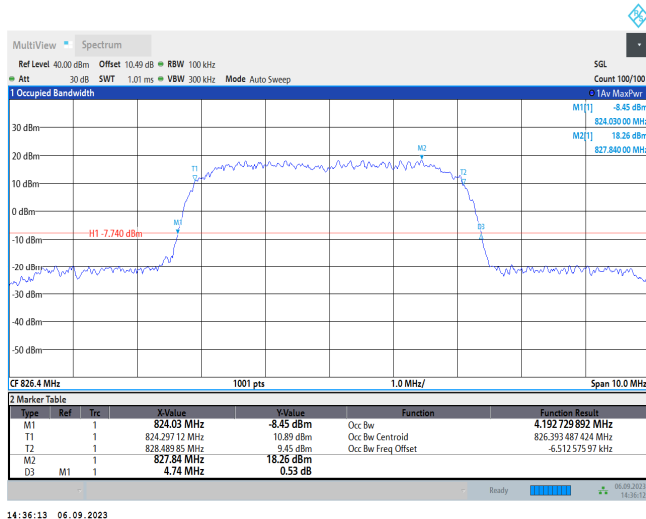
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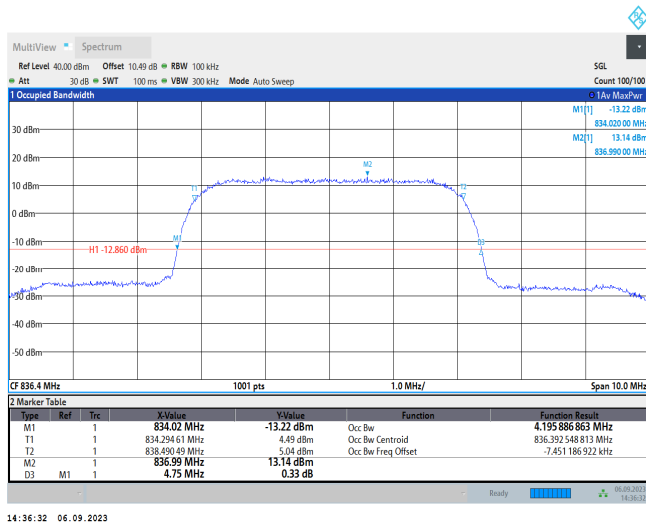
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BandV-4132



BandV-4182



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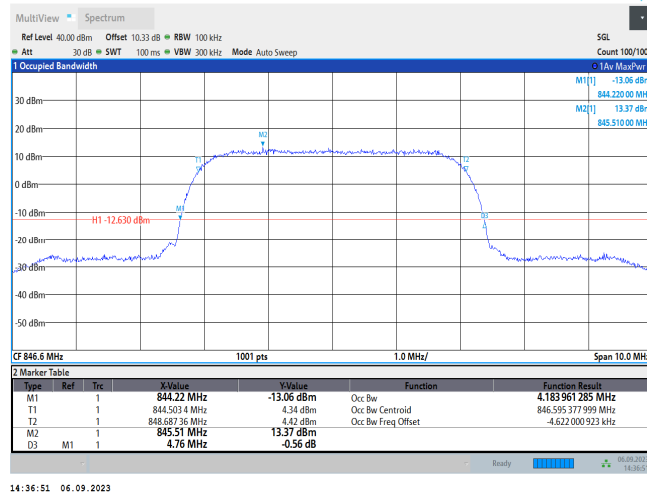


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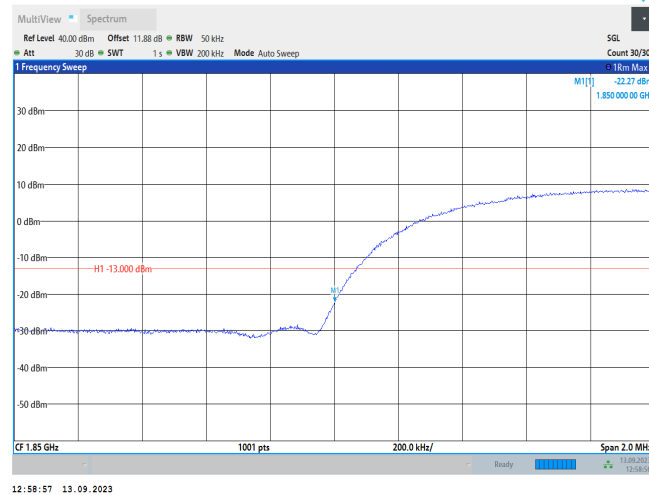
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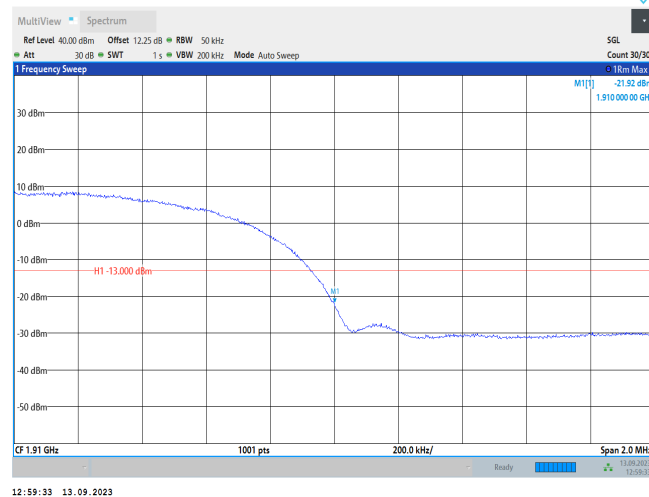
Band Edge

Test Graphs

BandII-9262



BandII-9538



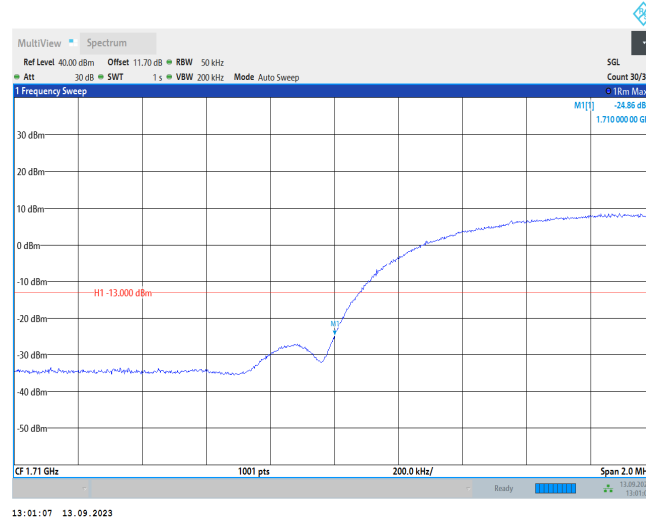


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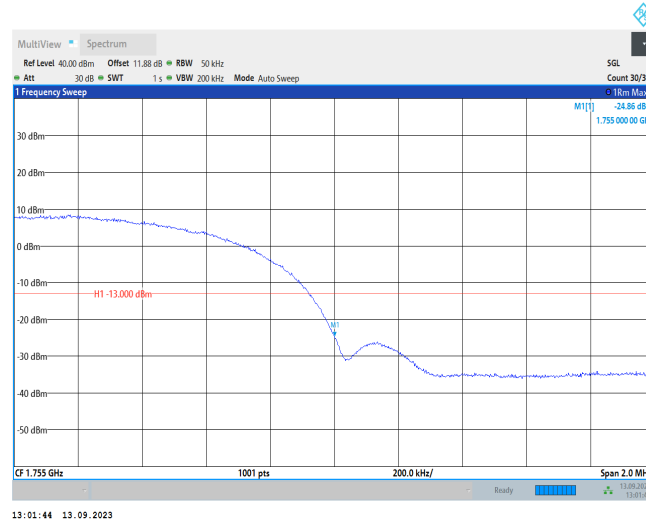
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BandIV-1312



BandIV-1513



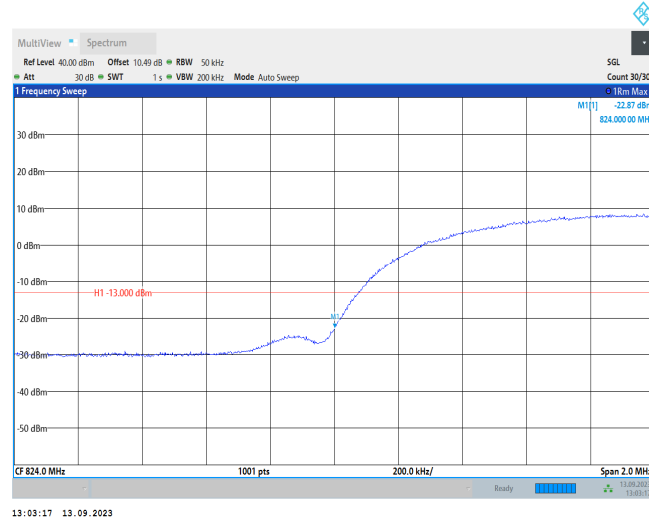
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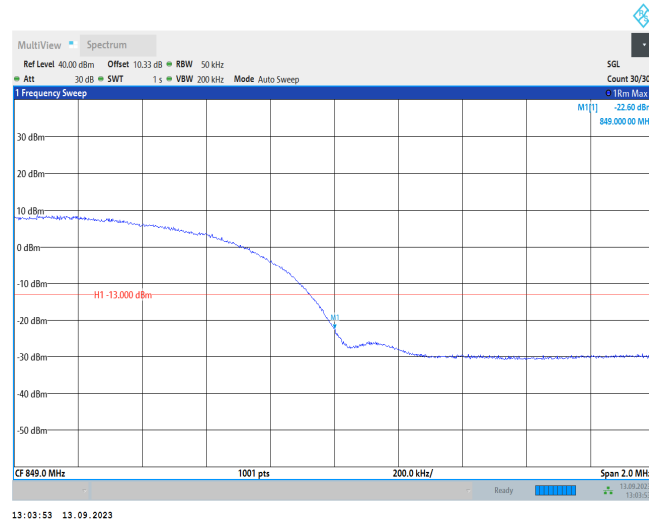
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BandV-4132



BandV-4233



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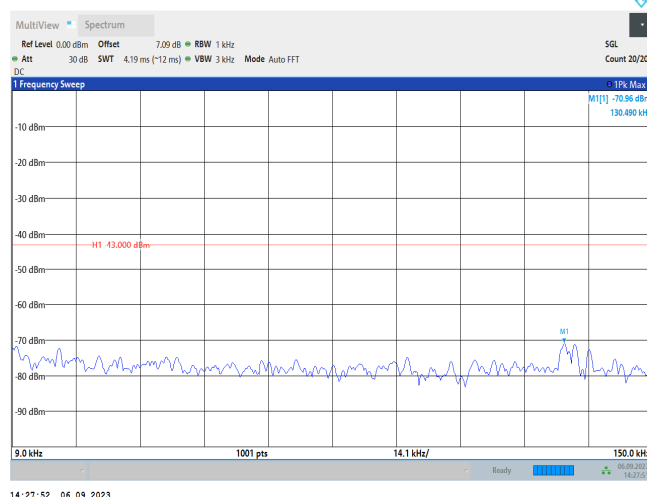
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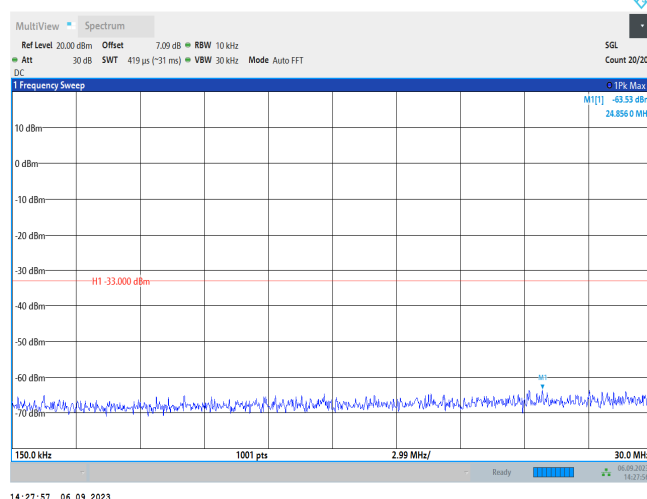
Conducted Spurious Emission

Test Graphs

BandII-9262-0.009~0.15MHz



BandII-9262-0.15~30MHz



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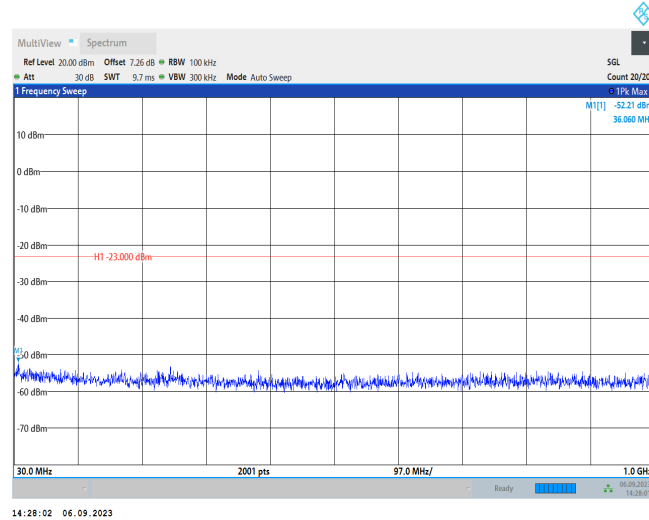
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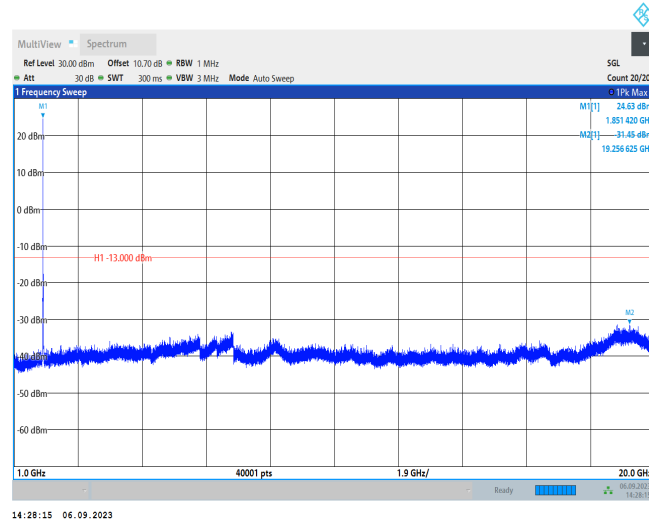
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BandII-9262-30~1000MHz



BandII-9262-1000~20000MHz



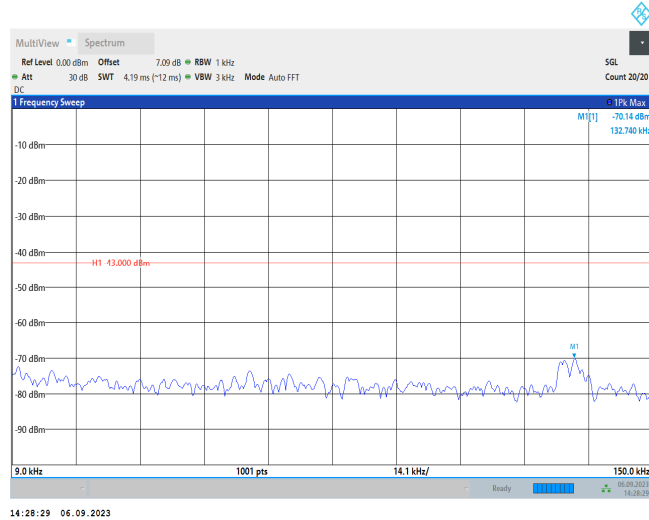


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BandII-9400-0.009~0.15MHz



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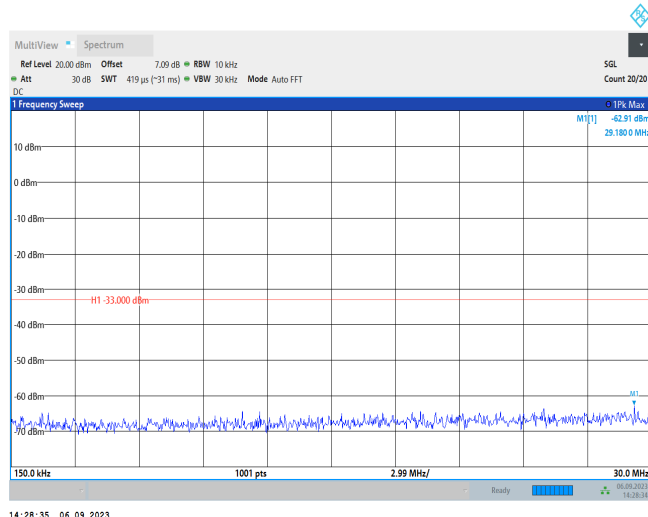


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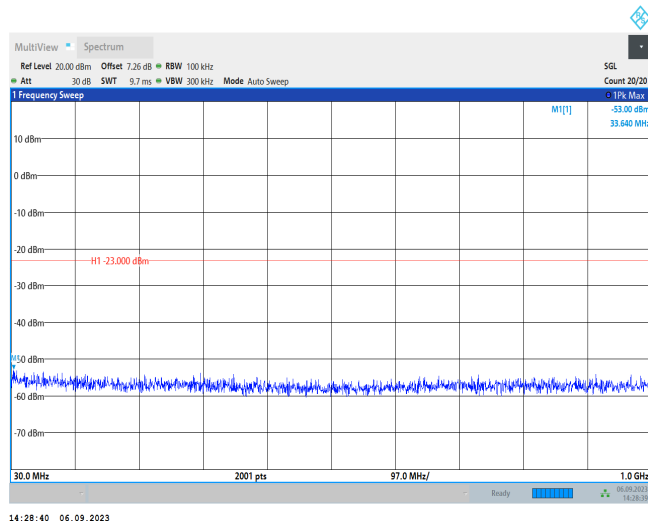
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BandII-9400-0.15~30MHz



BandII-9400-30~1000MHz



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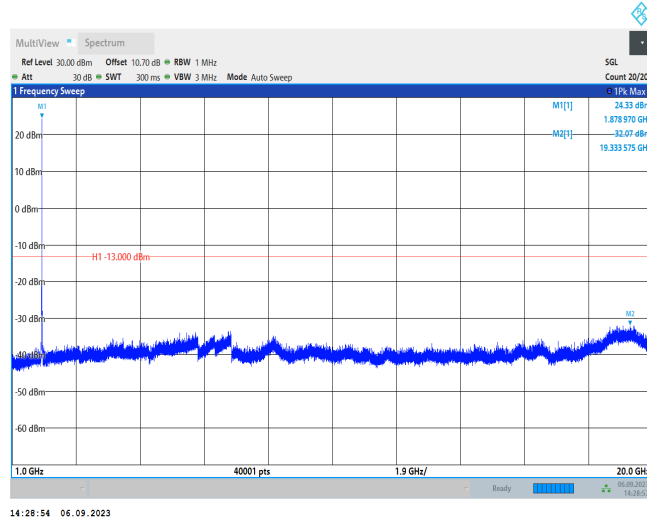


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BandII-9400-1000~20000MHz

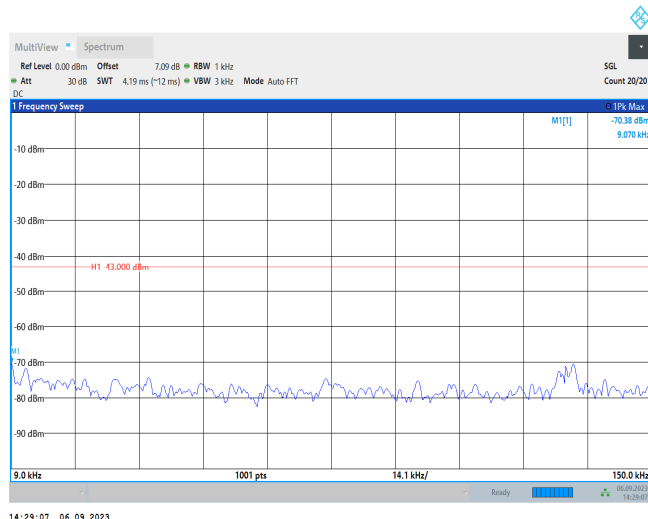


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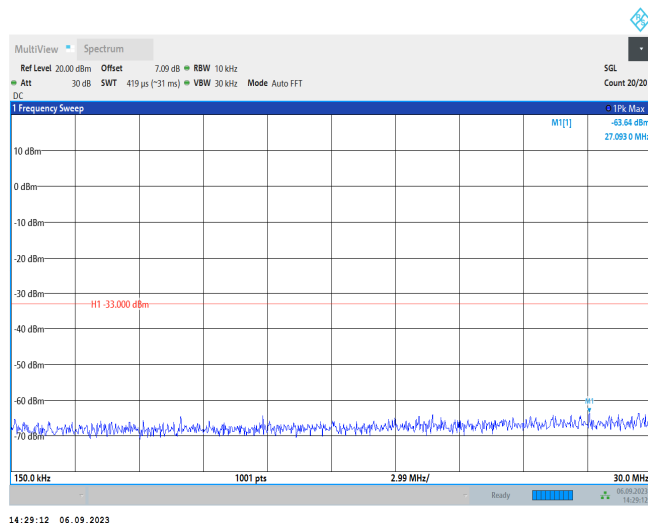
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BandII-9538-0.009~0.15MHz



BandII-9538-0.15~30MHz



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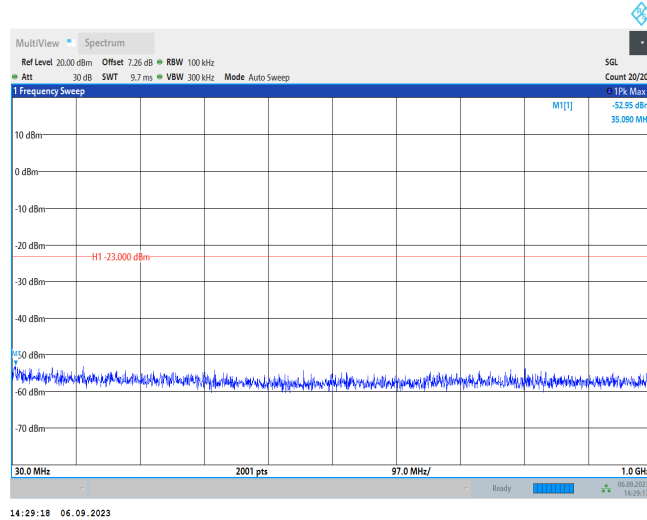


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BandII-9538-30~1000MHz



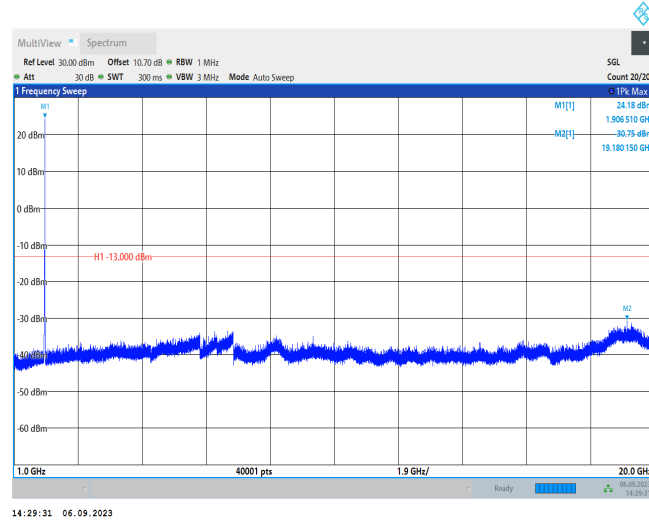


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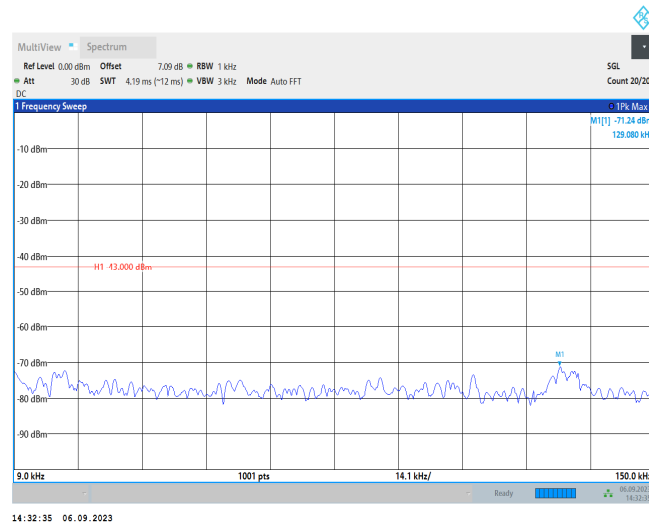
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BandII-9538-1000~20000MHz



BandIV-1312-0.009~0.15MHz



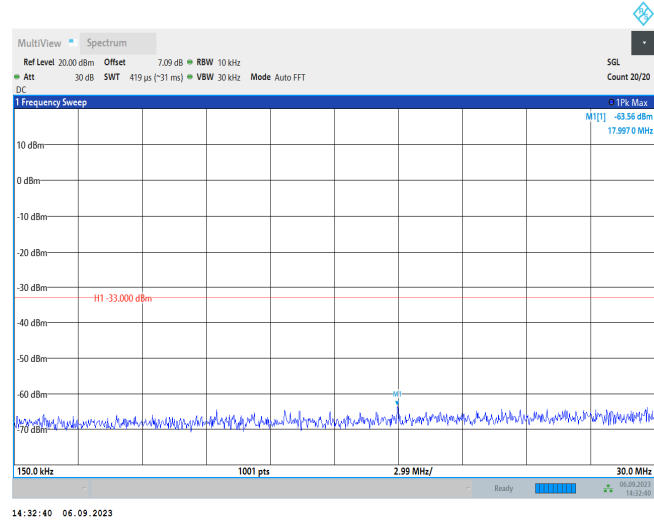


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Band IV-1312-0.15~30MHz



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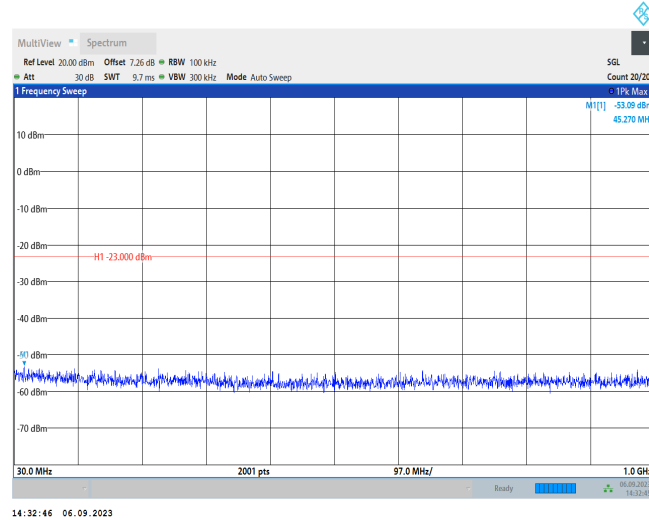
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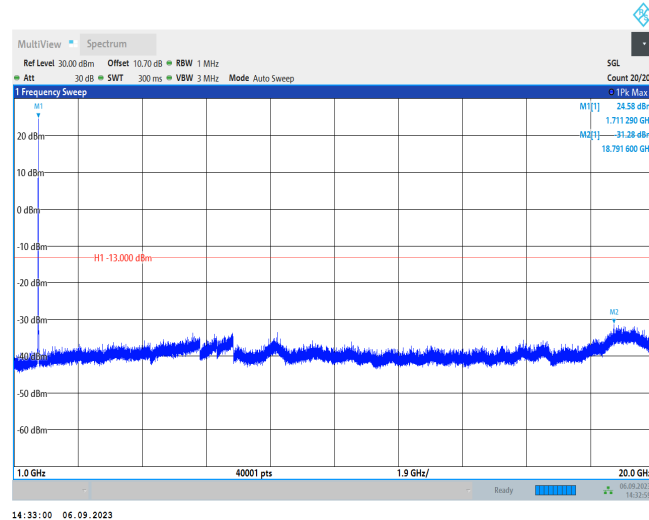
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BandIV-1312-30~1000MHz



BandIV-1312-1000~20000MHz



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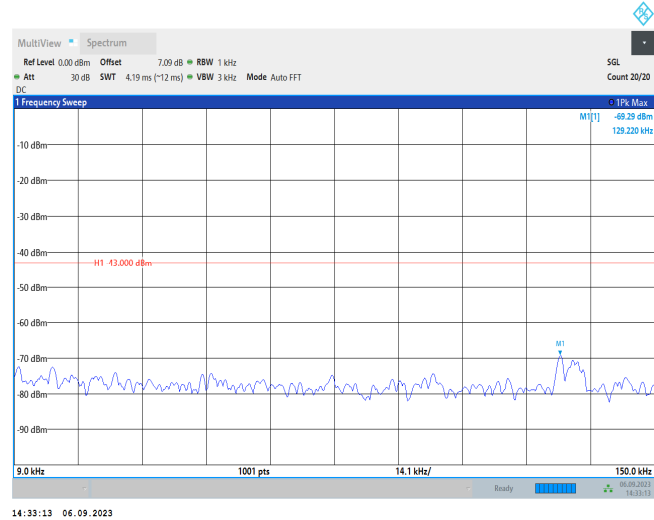


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Band IV-1413-0.009~0.15MHz



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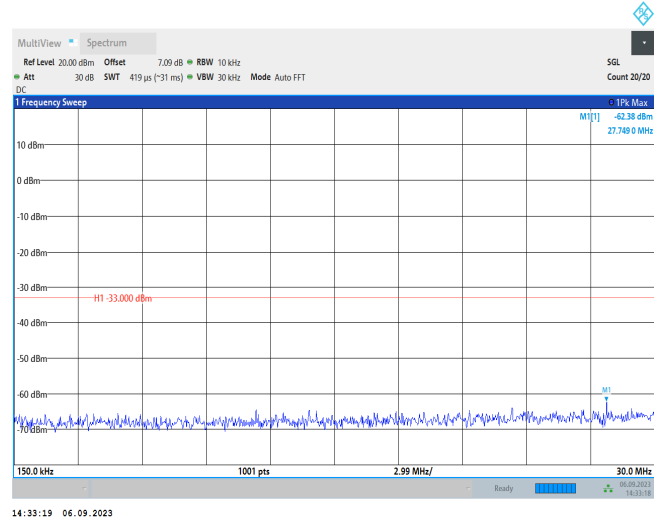


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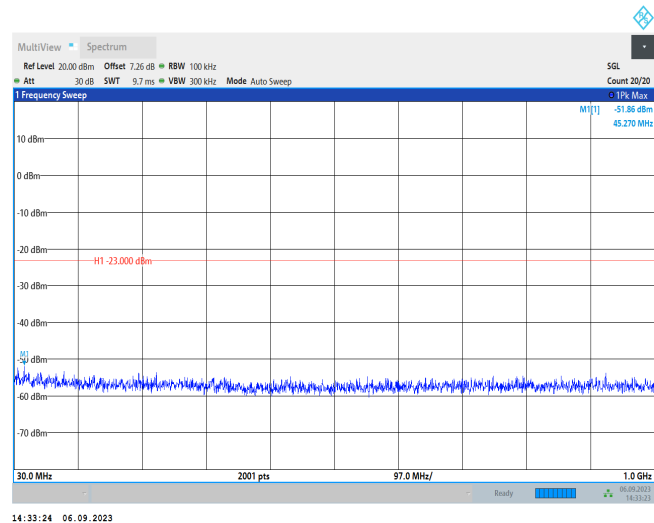
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BandIV-1413-0.15~30MHz



BandIV-1413-30~1000MHz



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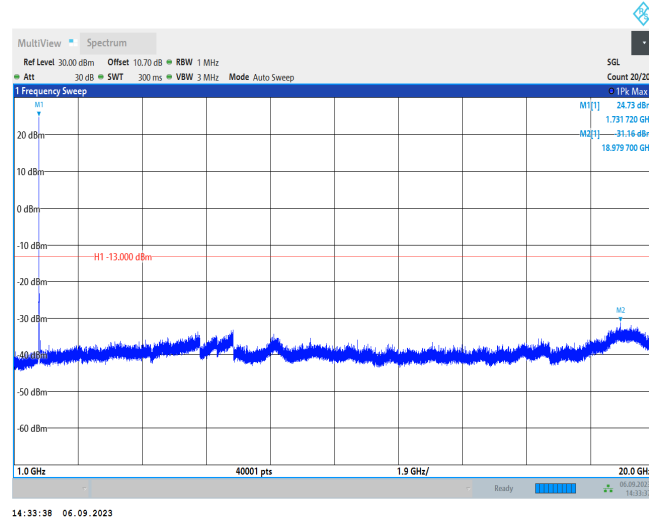


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Band IV-1413-1000~20000MHz



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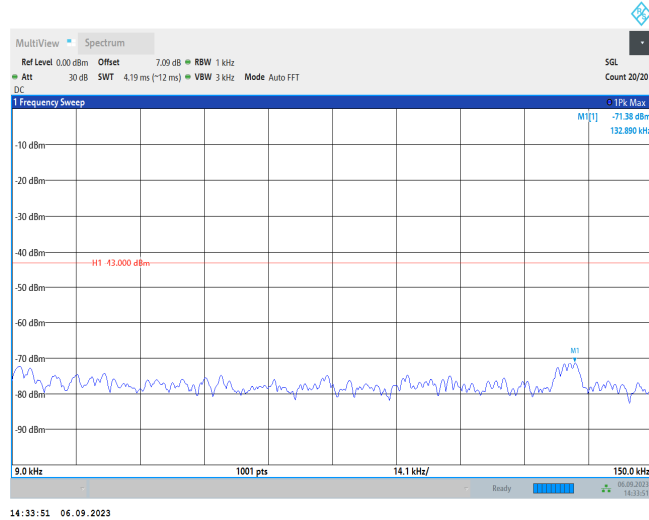


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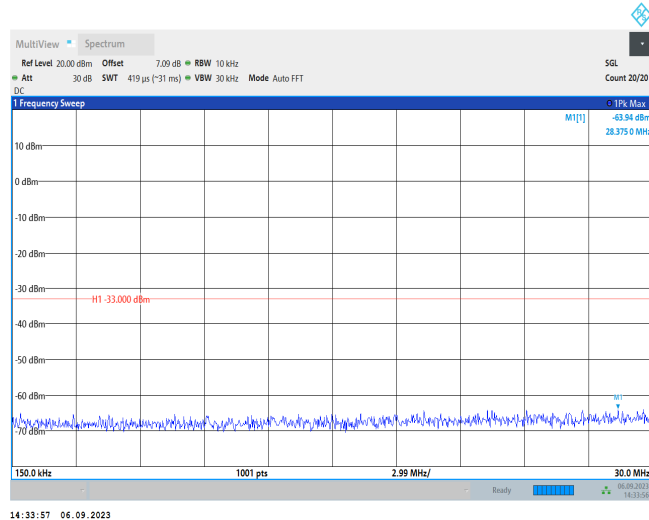
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BandIV-1513-0.009~0.15MHz



BandIV-1513-0.15~30MHz



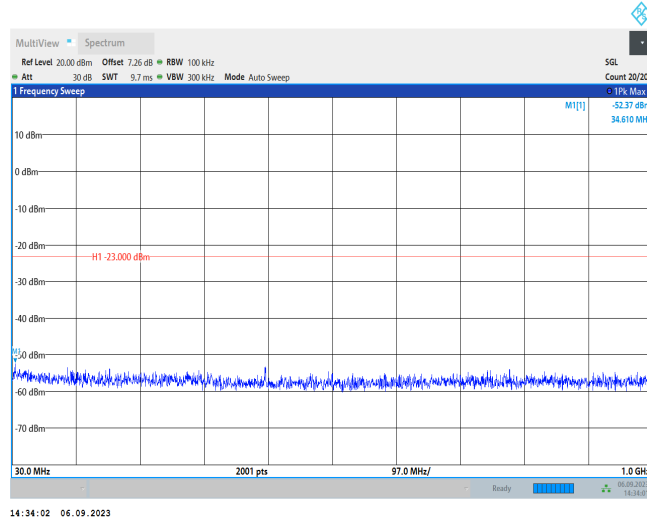


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Band IV-1513-30~1000MHz



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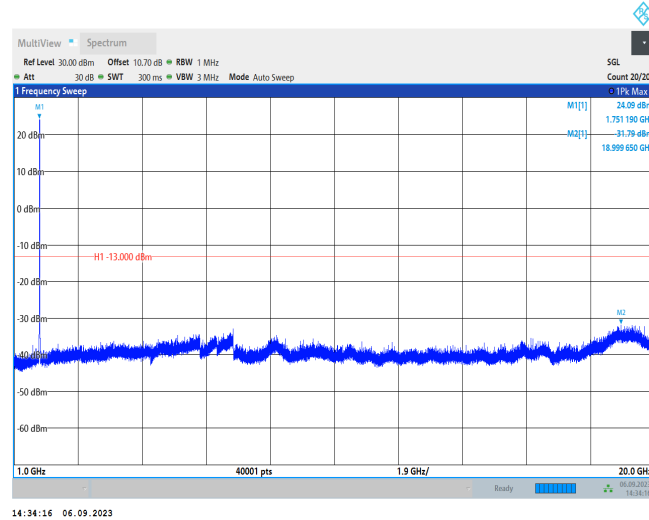


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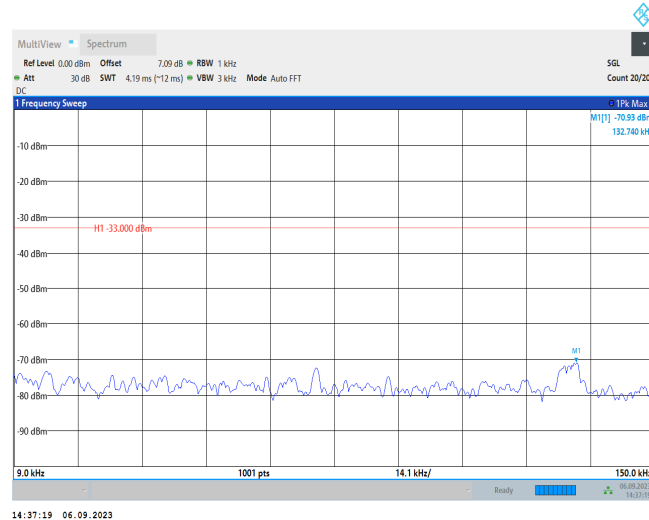
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BandIV-1513-1000~20000MHz



BandV-4132-0.009~0.15MHz



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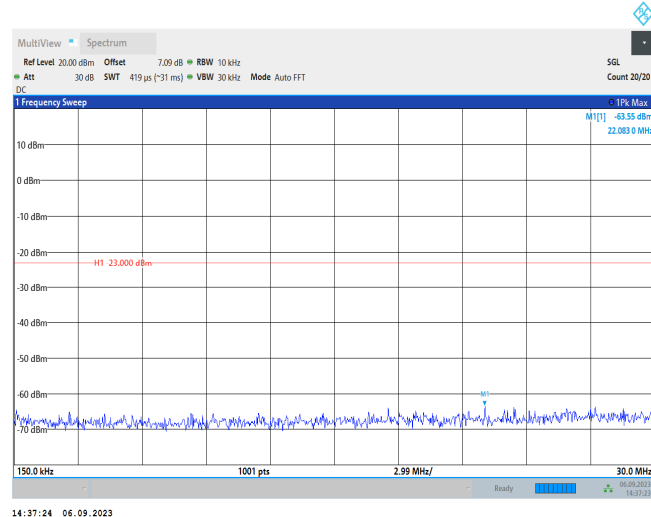


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BandV-4132-0.15~30MHz



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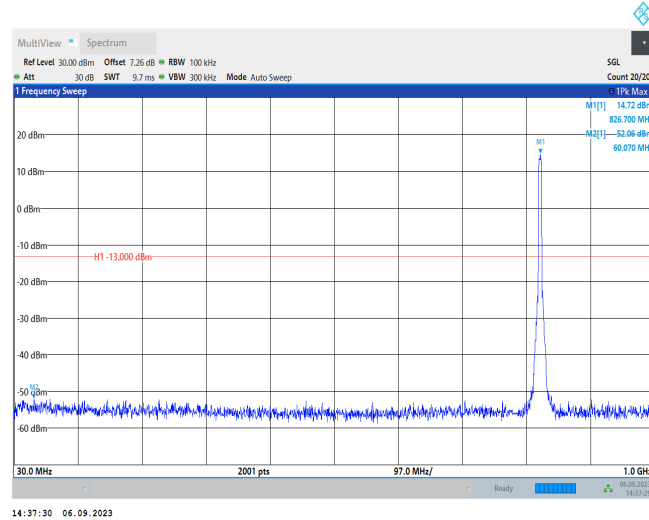
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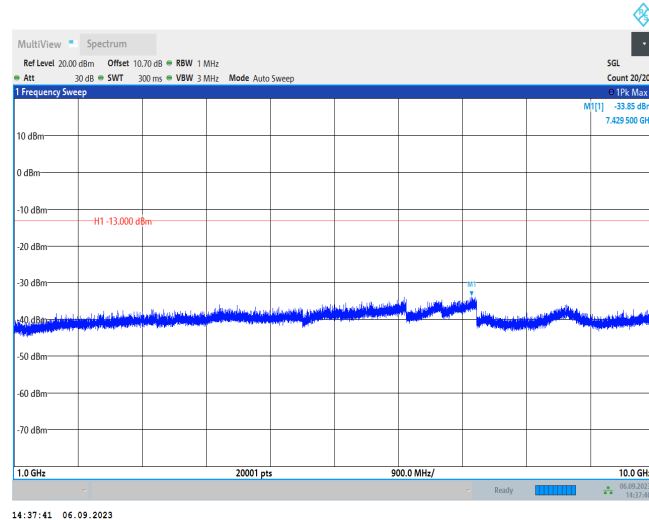
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BandV-4132-30~1000MHz



BandV-4132-1000~10000MHz



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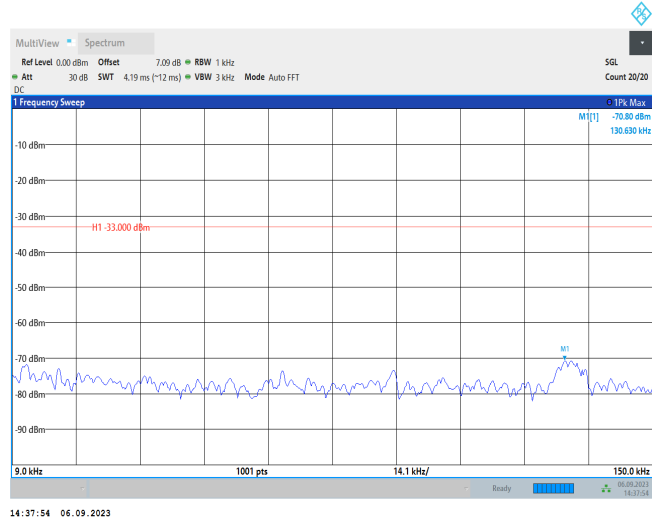


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BandV-4182-0.009~0.15MHz



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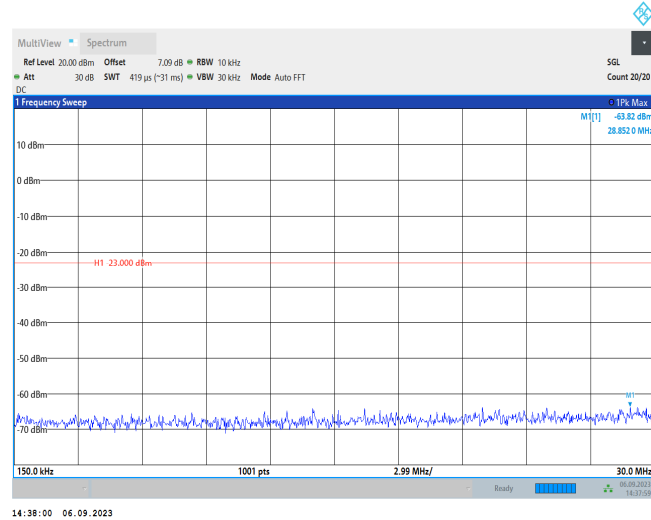


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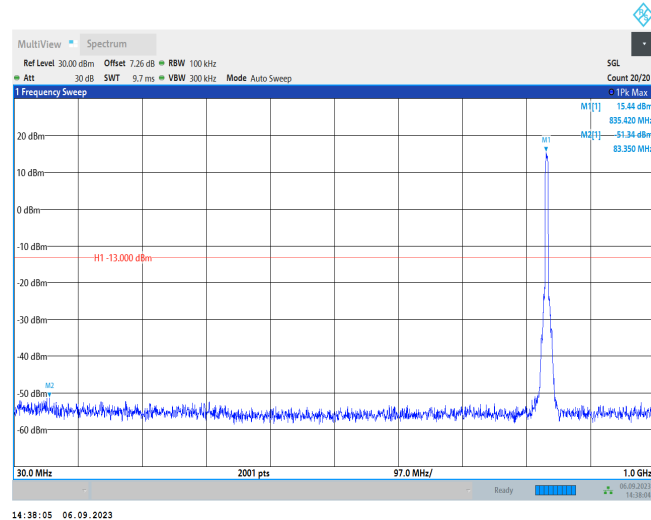
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BandV-4182-0.15~30MHz



BandV-4182-30~1000MHz



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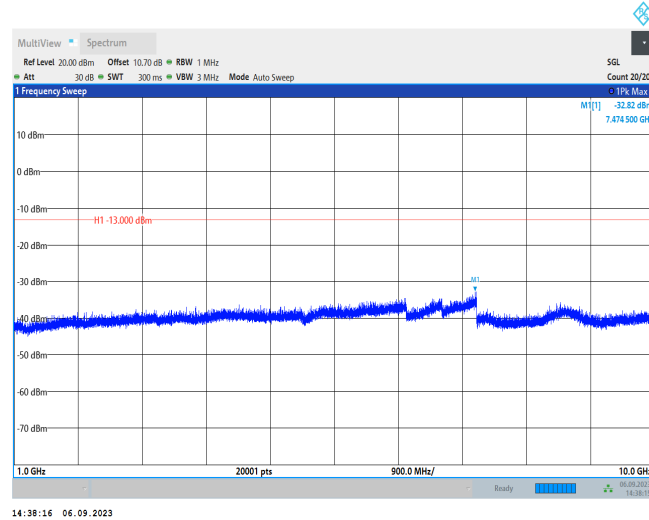


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BandV-4182-1000~10000MHz



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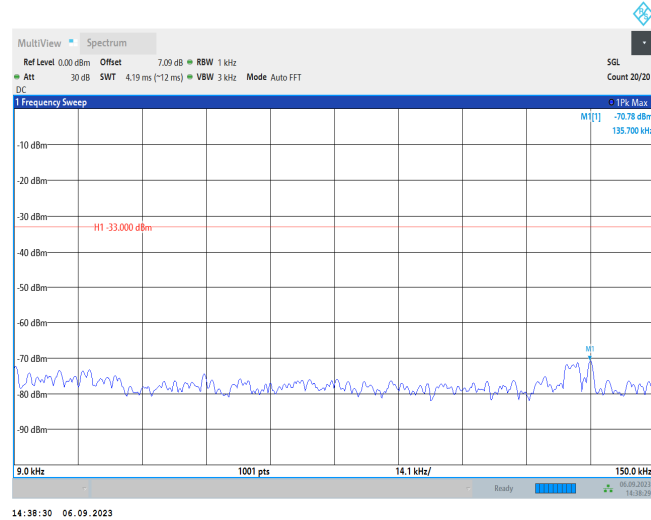


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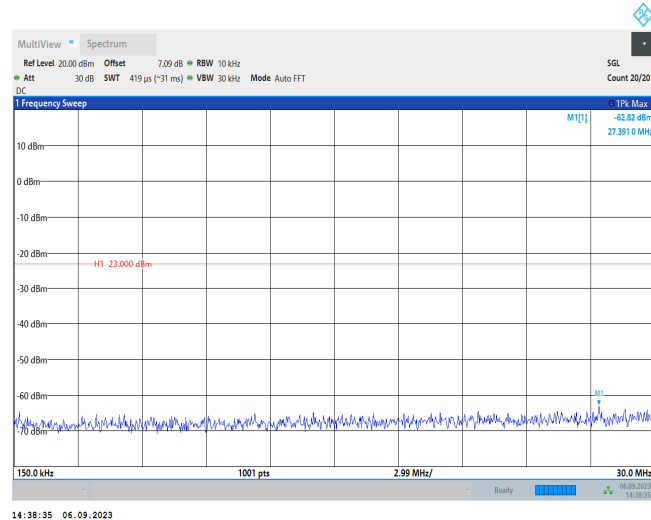
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BandV-4233-0.009~0.15MHz



BandV-4233-0.15~30MHz

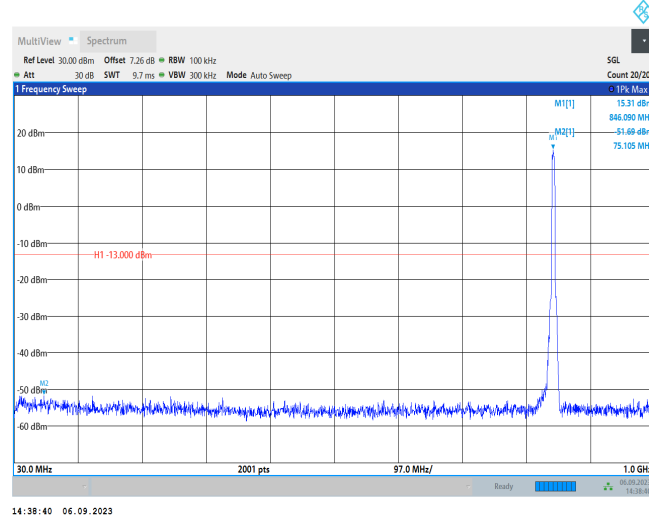


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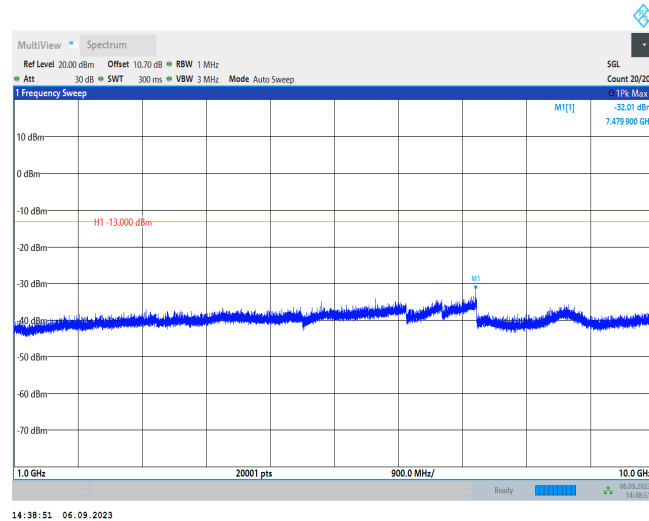
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BandV-4233-30~1000MHz



BandV-4233-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = WCDMA_II

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2996.5	37.45	-21.78	28.58	-51.01	-13.00	38.01	Horizontal
2	3703.5	48.41	-44.52	29.32	-62.05	-13.00	49.05	Horizontal
3	5633.5	45.38	-41.34	32.53	-58.69	-13.00	45.69	Horizontal
4	7442	43.45	-38.28	36.78	-53.31	-13.00	40.31	Horizontal
5	11094.5	42.93	-37.56	40.19	-49.70	-13.00	36.70	Horizontal
6	16396	41.06	-34.84	38.79	-50.25	-13.00	37.25	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2995.5	37.39	-21.78	28.57	-51.08	-13.00	38.08	Vertical
2	3703	51.32	-44.52	29.32	-59.14	-13.00	46.14	Vertical
3	7495.5	43.48	-38.29	36.89	-53.18	-13.00	40.18	Vertical
4	11108	42.70	-37.72	40.20	-50.08	-13.00	37.08	Vertical
5	13647	42.05	-37.92	40.15	-50.98	-13.00	37.98	Vertical
6	16400	41.00	-34.82	38.80	-50.28	-13.00	37.28	Vertical

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Test Band = WCDMA_II

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2978	37.67	-21.80	28.47	-50.92	-13.00	37.92	Horizontal
2	3758.5	48.60	-44.76	29.63	-61.79	-13.00	48.79	Horizontal
3	5645.5	45.67	-41.30	32.51	-58.38	-13.00	45.38	Horizontal
4	7428.5	43.82	-38.28	36.76	-52.96	-13.00	39.96	Horizontal
5	9909	41.88	-35.20	38.61	-49.97	-13.00	36.97	Horizontal
6	16398	41.59	-34.83	38.79	-49.71	-13.00	36.71	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2985	37.47	-21.79	28.51	-51.07	-13.00	38.07	Vertical
2	3759	48.75	-44.76	29.64	-61.63	-13.00	48.63	Vertical
3	5639.5	45.39	-41.32	32.52	-58.67	-13.00	45.67	Vertical
4	7366.5	43.99	-38.48	36.57	-53.18	-13.00	40.18	Vertical
5	11108	42.60	-37.72	40.20	-50.18	-13.00	37.18	Vertical
6	16359.5	41.04	-35.04	38.68	-50.58	-13.00	37.58	Vertical

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Test Band = WCDMA_II

Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2994.5	37.45	-21.78	28.57	-51.02	-13.00	38.02	Horizontal
2	3813.5	47.83	-44.83	29.77	-62.49	-13.00	49.49	Horizontal
3	6071.5	44.54	-40.74	33.46	-58.00	-13.00	45.00	Horizontal
4	7423	43.83	-38.28	36.75	-52.96	-13.00	39.96	Horizontal
5	11098.5	42.64	-37.58	40.20	-50.00	-13.00	37.00	Horizontal
6	16398	41.08	-34.83	38.79	-50.22	-13.00	37.22	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2974	37.57	-21.81	28.44	-51.06	-13.00	38.06	Vertical
2	3813.5	49.40	-44.83	29.77	-60.92	-13.00	47.92	Vertical
3	6119	45.00	-40.59	33.36	-57.49	-13.00	44.49	Vertical
4	8853.5	42.31	-36.28	36.79	-52.44	-13.00	39.44	Vertical
5	11114.5	43.05	-37.83	40.20	-49.84	-13.00	36.84	Vertical
6	16417	41.12	-34.96	38.89	-50.21	-13.00	37.21	Vertical



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Test Band = WCDMA_IV

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2995	37.54	-21.78	28.57	-50.93	-13.00	37.93	Horizontal
2	4409.5	46.66	-43.36	30.10	-61.86	-13.00	48.86	Horizontal
3	7495.5	43.79	-38.29	36.89	-52.87	-13.00	39.87	Horizontal
4	9894.5	41.62	-35.00	38.56	-50.08	-13.00	37.08	Horizontal
5	13648.5	42.13	-37.92	40.15	-50.90	-13.00	37.90	Horizontal
6	17993	40.30	-43.10	48.07	-49.99	-13.00	36.99	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2989	37.50	-21.79	28.53	-51.02	-13.00	38.02	Vertical
2	5135	47.26	-42.53	31.71	-58.82	-13.00	45.82	Vertical
3	7420.5	43.52	-38.28	36.74	-53.28	-13.00	40.28	Vertical
4	9908.5	41.63	-35.18	38.61	-50.20	-13.00	37.20	Vertical
5	13574.5	42.28	-37.88	40.05	-50.81	-13.00	37.81	Vertical
6	16399	41.01	-34.83	38.80	-50.28	-13.00	37.28	Vertical



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Test Band = WCDMA_IV

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2985.5	37.44	-21.79	28.51	-51.10	-13.00	38.10	Horizontal
2	3916.5	47.42	-44.20	29.77	-62.27	-13.00	49.27	Horizontal
3	5643	45.46	-41.31	32.51	-58.60	-13.00	45.60	Horizontal
4	7431	43.25	-38.28	36.76	-53.53	-13.00	40.53	Horizontal
5	11118.5	42.90	-37.90	40.20	-50.06	-13.00	37.06	Horizontal
6	16398.5	40.77	-34.83	38.80	-50.52	-13.00	37.52	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2998.5	37.53	-21.77	28.59	-50.91	-13.00	37.91	Vertical
2	5195	47.18	-42.55	31.89	-58.74	-13.00	45.74	Vertical
3	7419	43.62	-38.28	36.74	-53.18	-13.00	40.18	Vertical
4	11112	42.63	-37.79	40.20	-50.22	-13.00	37.22	Vertical
5	13643.5	41.89	-37.91	40.14	-51.14	-13.00	38.14	Vertical
6	16398	41.13	-34.83	38.79	-50.17	-13.00	37.17	Vertical



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Test Band = WCDMA_IV

Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2990.5	37.56	-21.78	28.54	-50.94	-13.00	37.94	Horizontal
2	4001	47.37	-44.17	29.80	-62.26	-13.00	49.26	Horizontal
3	7436	43.70	-38.28	36.77	-53.07	-13.00	40.07	Horizontal
4	9886.5	41.31	-35.06	38.49	-50.52	-13.00	37.52	Horizontal
5	13570	42.19	-37.89	40.04	-50.92	-13.00	37.92	Horizontal
6	16394.5	41.00	-34.85	38.78	-50.33	-13.00	37.33	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2995.5	37.45	-21.78	28.57	-51.02	-13.00	38.02	Vertical
2	5260.5	48.52	-42.40	31.66	-57.48	-13.00	44.48	Vertical
3	7433.5	43.74	-38.28	36.77	-53.03	-13.00	40.03	Vertical
4	9879.5	41.69	-35.12	38.44	-50.25	-13.00	37.25	Vertical
5	13570	42.19	-37.89	40.04	-50.92	-13.00	37.92	Vertical
6	17999	40.25	-43.05	48.18	-49.88	-13.00	36.88	Vertical



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Test Band = WCDMA_V

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651	53.91	-47.52	25.49	-63.38	-13.00	50.38	Horizontal
2	2482.5	58.14	-46.68	27.73	-56.07	-13.00	43.07	Horizontal
3	3692.5	46.72	-44.48	29.30	-63.72	-13.00	50.72	Horizontal
4	5157.5	45.19	-42.57	31.82	-60.82	-13.00	47.82	Horizontal
5	7404	42.90	-38.35	36.71	-54.00	-13.00	41.00	Horizontal
6	9545	41.81	-35.83	37.80	-51.48	-13.00	38.48	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.5	51.45	-47.51	25.46	-65.86	-13.00	52.86	Vertical
2	2476.5	60.58	-46.67	27.71	-53.64	-13.00	40.64	Vertical
3	3717.5	47.17	-44.60	29.41	-63.28	-13.00	50.28	Vertical
4	5169.5	45.30	-42.55	31.84	-60.67	-13.00	47.67	Vertical
5	7421.5	43.12	-38.36	36.74	-53.76	-13.00	40.76	Vertical
6	9882	41.39	-35.33	38.46	-50.74	-13.00	37.74	Vertical



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Test Band = WCDMA_V

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1675	53.77	-47.48	25.30	-63.67	-13.00	50.67	Horizontal
2	2506.5	55.26	-46.66	27.80	-58.86	-13.00	45.86	Horizontal
3	3926	46.42	-44.29	29.80	-63.33	-13.00	50.33	Horizontal
4	5111.5	45.34	-42.66	31.57	-61.01	-13.00	48.01	Horizontal
5	7380.5	43.11	-38.43	36.62	-53.96	-13.00	40.96	Horizontal
6	9896	41.32	-35.30	38.57	-50.67	-13.00	37.67	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674	51.52	-47.48	25.31	-65.91	-13.00	52.91	Vertical
2	2506.5	57.40	-46.66	27.80	-56.72	-13.00	43.72	Vertical
3	4176.5	48.05	-43.89	29.51	-61.59	-13.00	48.59	Vertical
4	6011	44.77	-40.71	33.11	-58.09	-13.00	45.09	Vertical
5	7415.5	43.28	-38.35	36.73	-53.60	-13.00	40.60	Vertical
6	9811.5	41.39	-35.50	38.43	-50.94	-13.00	37.94	Vertical



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Test Band = WCDMA_V
Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691	58.17	-47.45	25.17	-59.37	-13.00	46.37	Horizontal
2	2536.5	56.91	-46.50	27.80	-57.05	-13.00	44.05	Horizontal
3	3981.5	46.49	-44.04	29.84	-62.97	-13.00	49.97	Horizontal
4	6042	44.17	-40.61	33.42	-58.28	-13.00	45.28	Horizontal
5	7498	43.01	-38.38	36.90	-53.73	-13.00	40.73	Horizontal
6	9907.5	41.03	-35.32	38.61	-50.94	-13.00	37.94	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.5	54.75	-47.45	25.17	-62.79	-13.00	49.79	Vertical
2	2537	63.48	-46.50	27.80	-50.48	-13.00	37.48	Vertical
3	3705	46.88	-44.52	29.33	-63.57	-13.00	50.57	Vertical
4	5145	45.56	-42.59	31.77	-60.52	-13.00	47.52	Vertical
5	7418.5	43.34	-38.36	36.74	-53.54	-13.00	40.54	Vertical
6	9897.5	41.40	-35.30	38.58	-50.58	-13.00	37.58	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

Voltage						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	VL	NT	-6.50	-0.003457	PASS
BandII	9400	VN	NT	-16.32	-0.008681	PASS
BandII	9400	VH	NT	-11.99	-0.006378	PASS
BandIV	1413	VL	NT	-9.91	-0.005720	PASS
BandIV	1413	VN	NT	-12.45	-0.007186	PASS
BandIV	1413	VH	NT	-8.86	-0.005114	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	VL	NT	-7.59	-0.009075	±2.5	PASS
BandV	4182	VN	NT	-11.96	-0.014299	±2.5	PASS
BandV	4182	VH	NT	-3.75	-0.004484	±2.5	PASS



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Temperature						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	NV	-30	-12.32	-0.006553	PASS
BandII	9400	NV	-20	-11.17	-0.005941	PASS
BandII	9400	NV	-10	-13.00	-0.006915	PASS
BandII	9400	NV	0	-11.63	-0.006186	PASS
BandII	9400	NV	10	-13.90	-0.007394	PASS
BandII	9400	NV	20	-11.74	-0.006245	PASS
BandII	9400	NV	30	-12.40	-0.006596	PASS
BandII	9400	NV	40	-12.76	-0.006787	PASS
BandII	9400	NV	50	-10.29	-0.005473	PASS
BandIV	1413	NV	-30	-10.39	-0.005997	PASS
BandIV	1413	NV	-20	-11.77	-0.006793	PASS
BandIV	1413	NV	-10	-13.25	-0.007647	PASS
BandIV	1413	NV	0	-13.82	-0.007976	PASS
BandIV	1413	NV	10	-11.48	-0.006626	PASS
BandIV	1413	NV	20	-9.10	-0.005252	PASS
BandIV	1413	NV	30	-11.51	-0.006643	PASS
BandIV	1413	NV	40	-15.19	-0.008767	PASS
BandIV	1413	NV	50	-12.33	-0.007116	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	NV	-30	-6.59	-0.007879	±2.5	PASS
BandV	4182	NV	-20	-2.65	-0.003168	±2.5	PASS
BandV	4182	NV	-10	-7.19	-0.008596	±2.5	PASS
BandV	4182	NV	0	-7.35	-0.008788	±2.5	PASS
BandV	4182	NV	10	-4.22	-0.005045	±2.5	PASS
BandV	4182	NV	20	-6.04	-0.007221	±2.5	PASS
BandV	4182	NV	30	-8.40	-0.010043	±2.5	PASS
BandV	4182	NV	40	-9.08	-0.010856	±2.5	PASS
BandV	4182	NV	50	-7.07	-0.008453	±2.5	PASS

---End of Attachment---



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