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Appendix B.1

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	22.40	24.36	33.00	PASS
BandII	9400	22.69	24.65	33.00	PASS
BandII	9538	22.69	24.65	33.00	PASS
BandIV	1312	23.33	25.67	30.00	PASS
BandIV	1413	23.48	25.82	30.00	PASS
BandIV	1513	23.17	25.51	30.00	PASS

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
BandV	4132	23.32	22.28	38.45	PASS
BandV	4182	23.12	22.08	38.45	PASS
BandV	4233	23.13	22.09	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	2.74	13	PASS
BandII	9400	2.88	13	PASS
BandII	9538	2.84	13	PASS
BandIV	1312	2.92	13	PASS
BandIV	1413	3.00	13	PASS
BandIV	1513	2.84	13	PASS
BandV	4132	2.88	13	PASS
BandV	4182	2.88	13	PASS
BandV	4233	2.90	13	PASS



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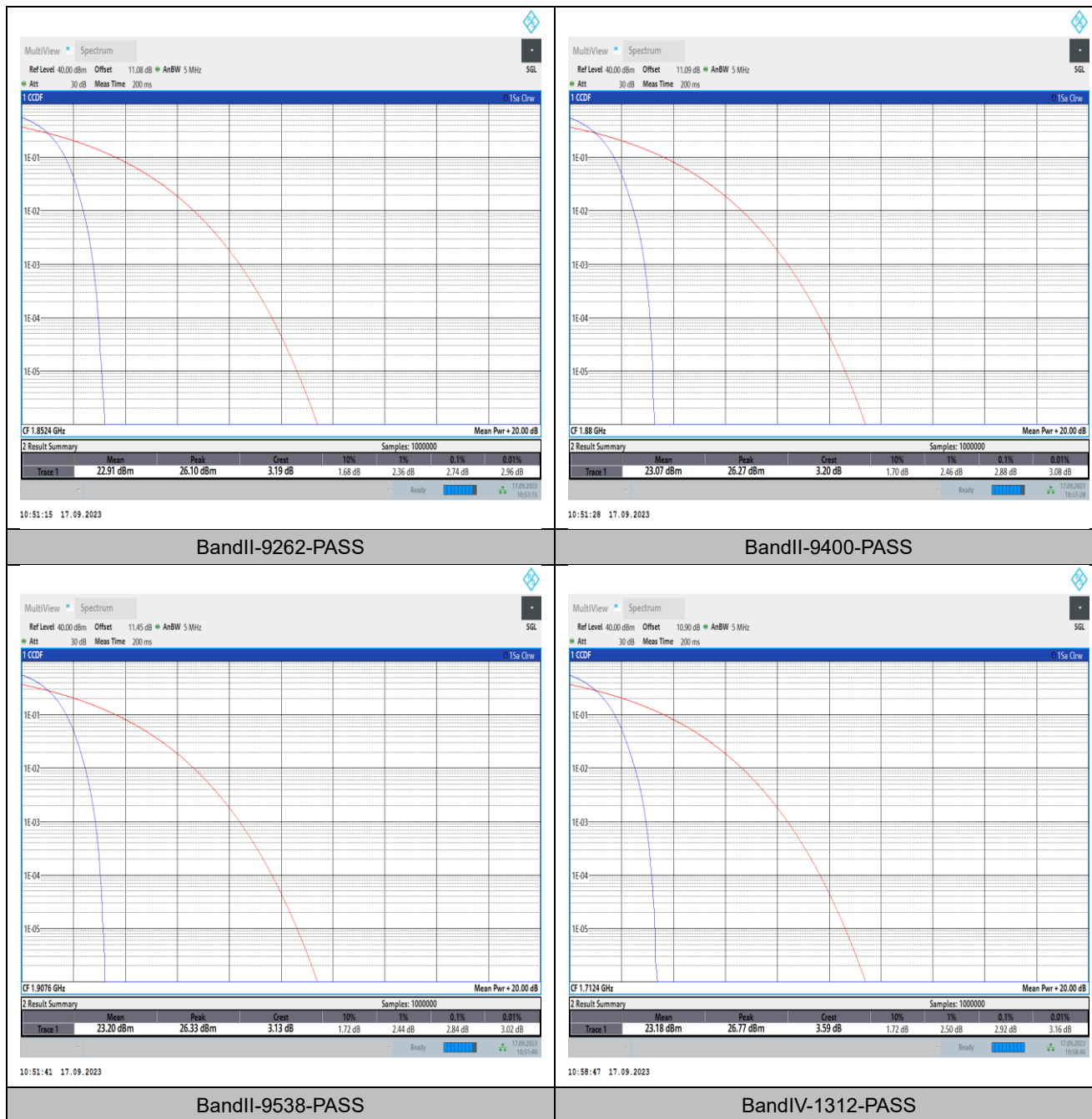
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Test Graphs



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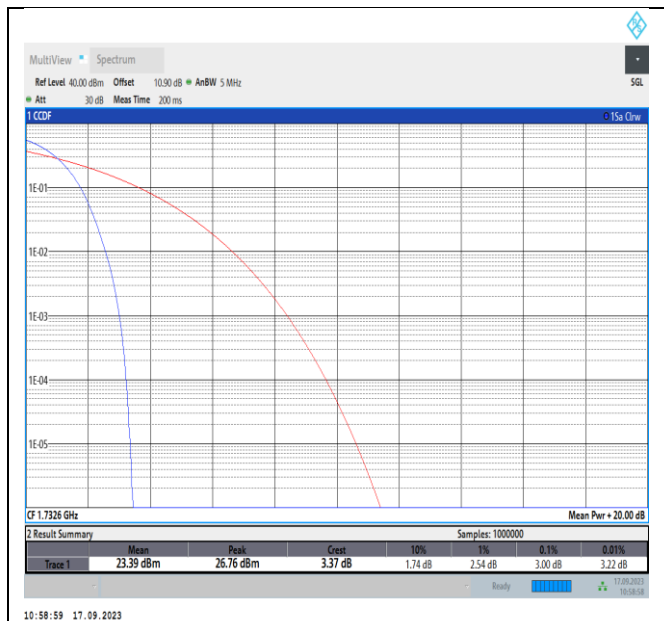
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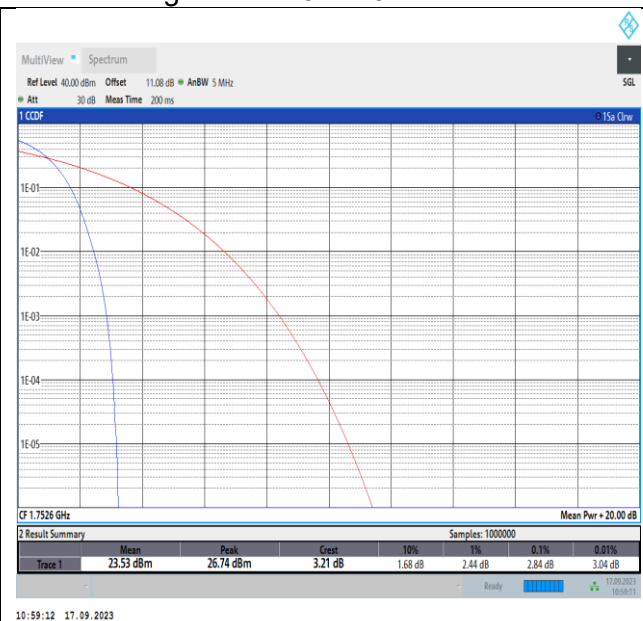
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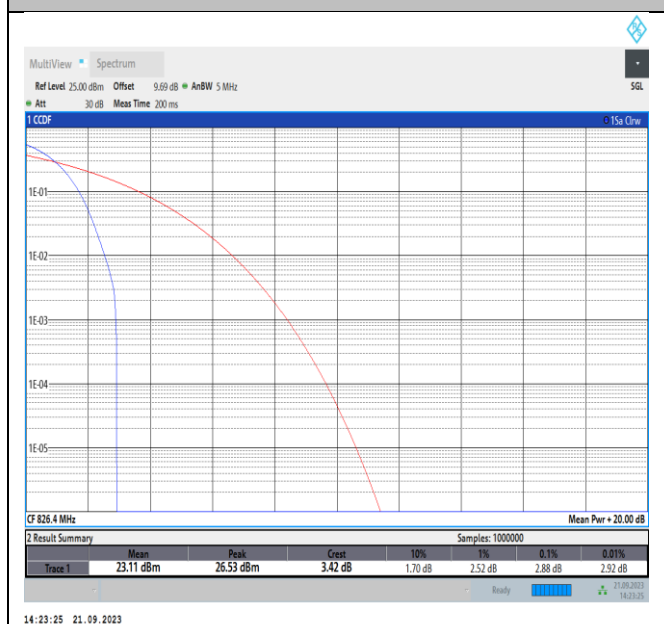
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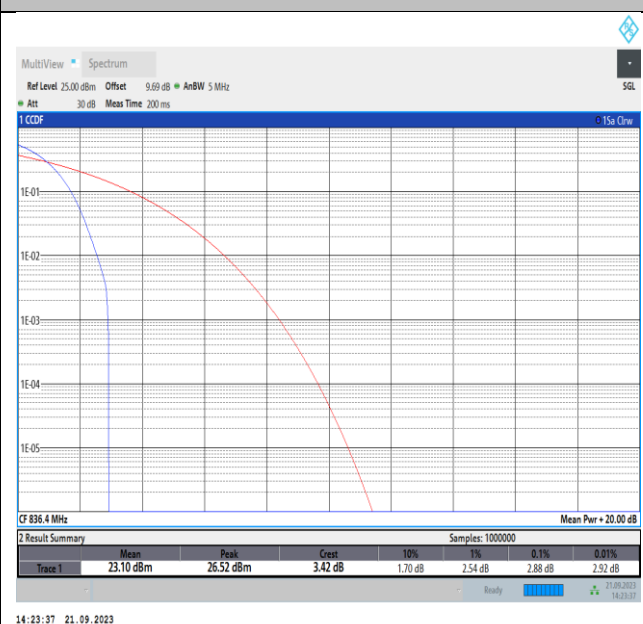
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BandIV-1513-PASS



BandV-4132-PASS



BandV-4182-PASS



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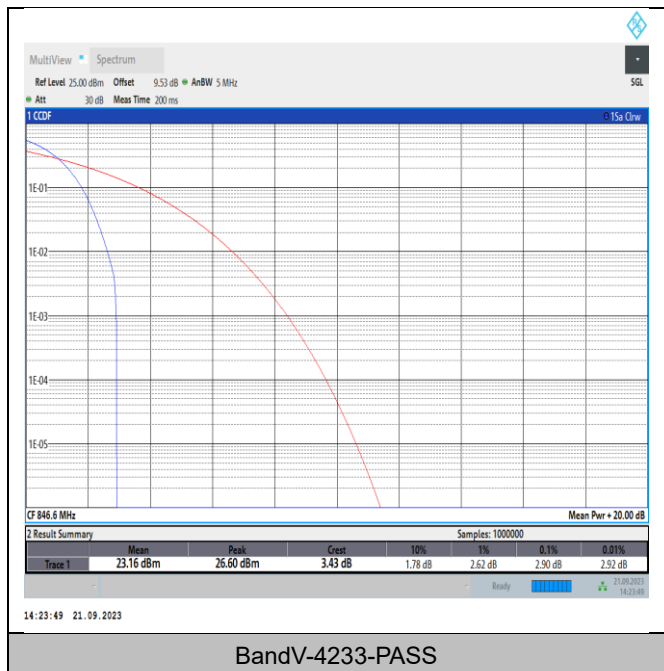
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
BandII	9262	4.161	4.71	---	PASS
BandII	9400	4.19	4.74	---	PASS
BandII	9538	4.192	4.76	---	PASS
BandIV	1312	4.16	4.74	---	PASS
BandIV	1413	4.189	4.74	---	PASS
BandIV	1513	4.178	4.74	---	PASS
BandV	4132	4.169	4.73	---	PASS
BandV	4182	4.195	4.73	---	PASS
BandV	4233	4.198	4.74	---	PASS



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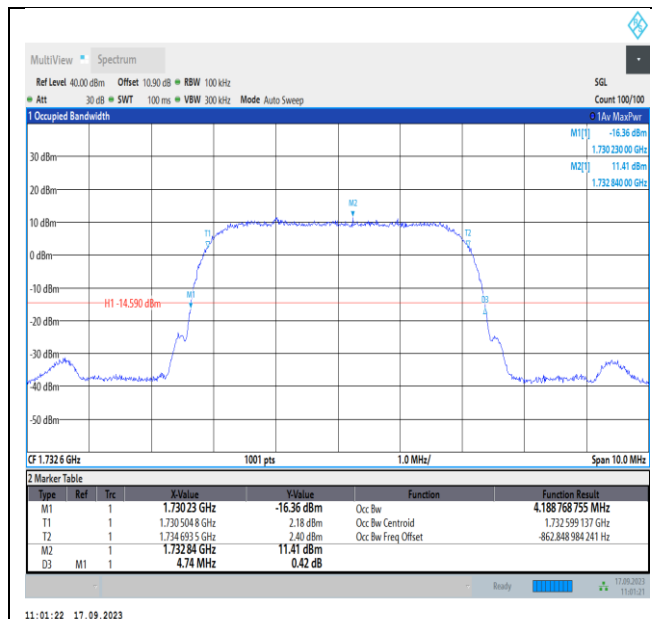
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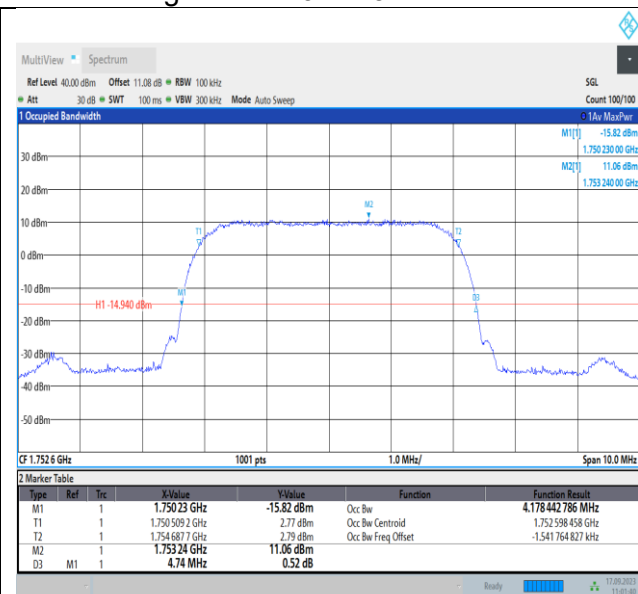
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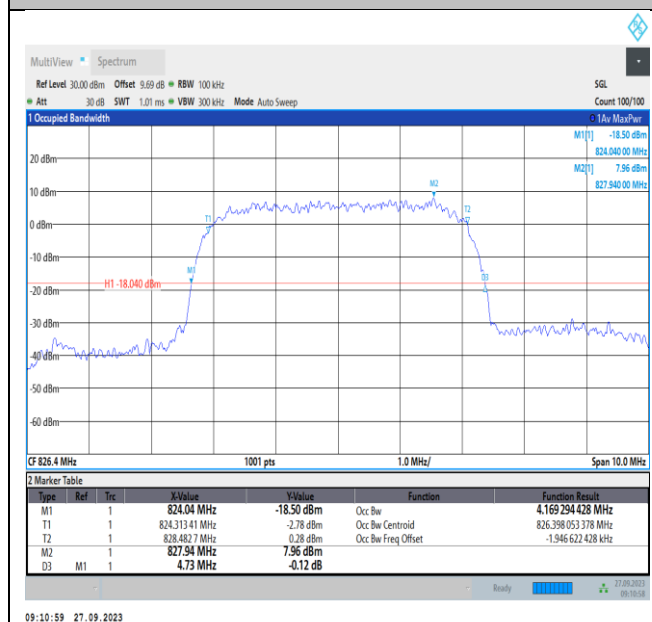
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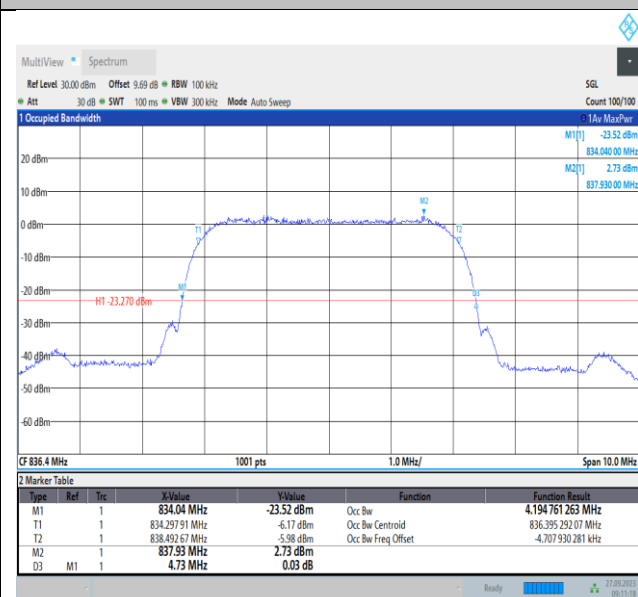
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BandIV-1513-PASS



09:10:59 27.09.2023

BandV-4132-PASS



09:11:19 27.09.2023

BandV-4182-PASS

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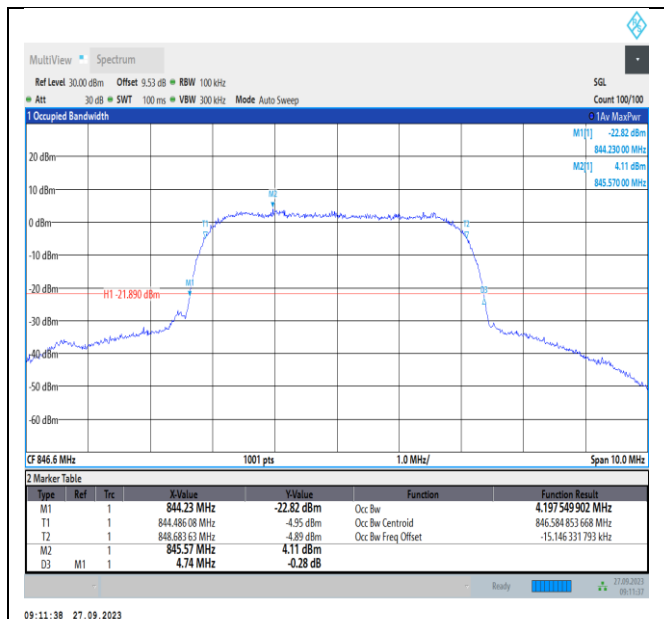
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BandV-4233-PASS



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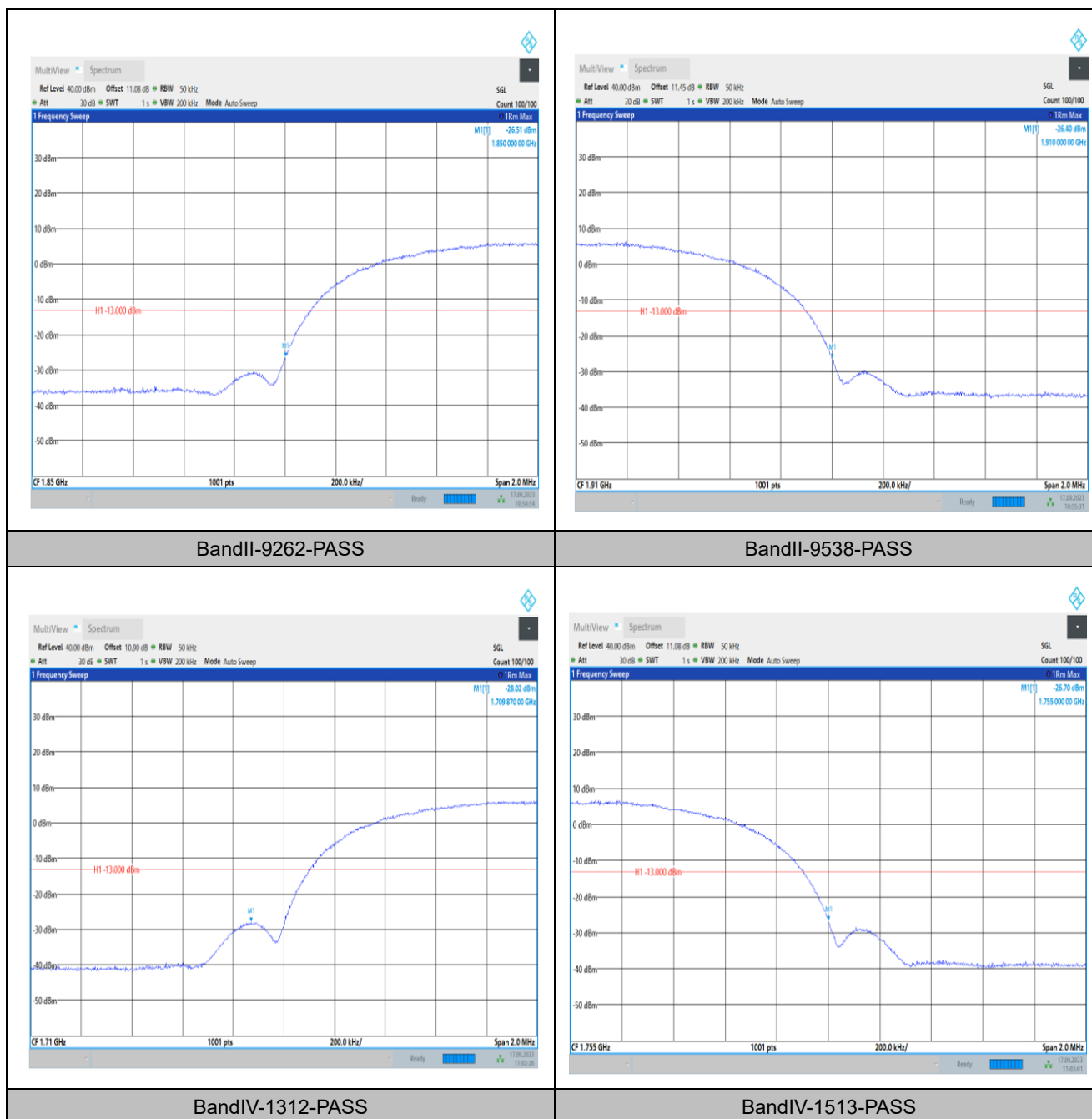
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Band Edge

Test Graphs



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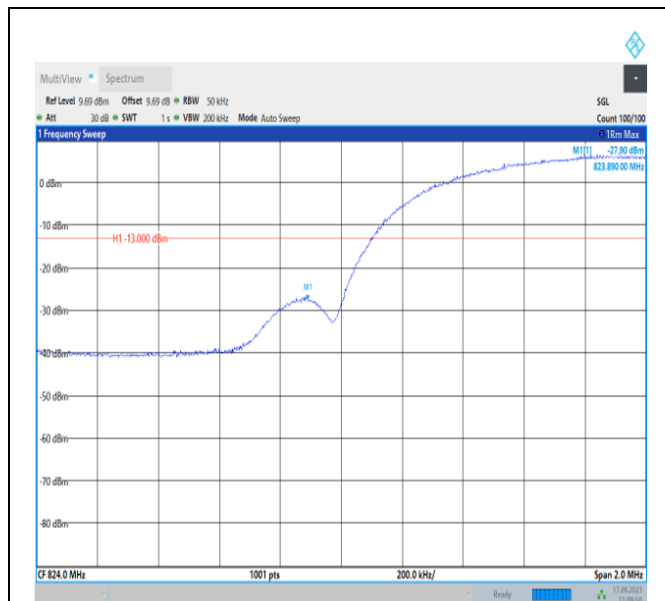
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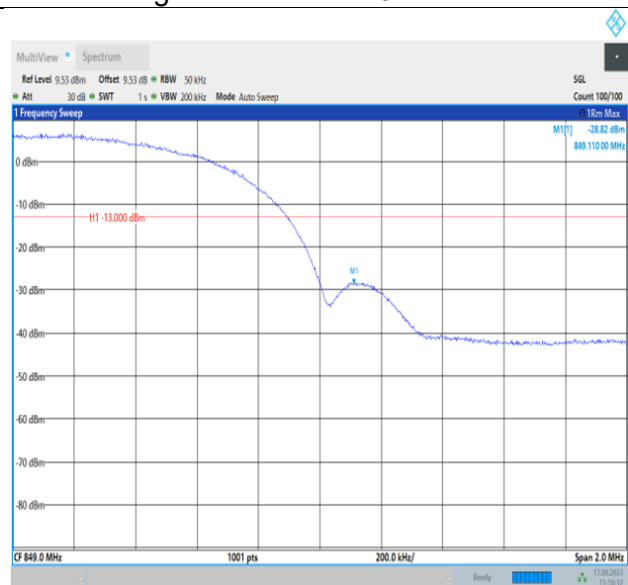
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BandV-4132-PASS



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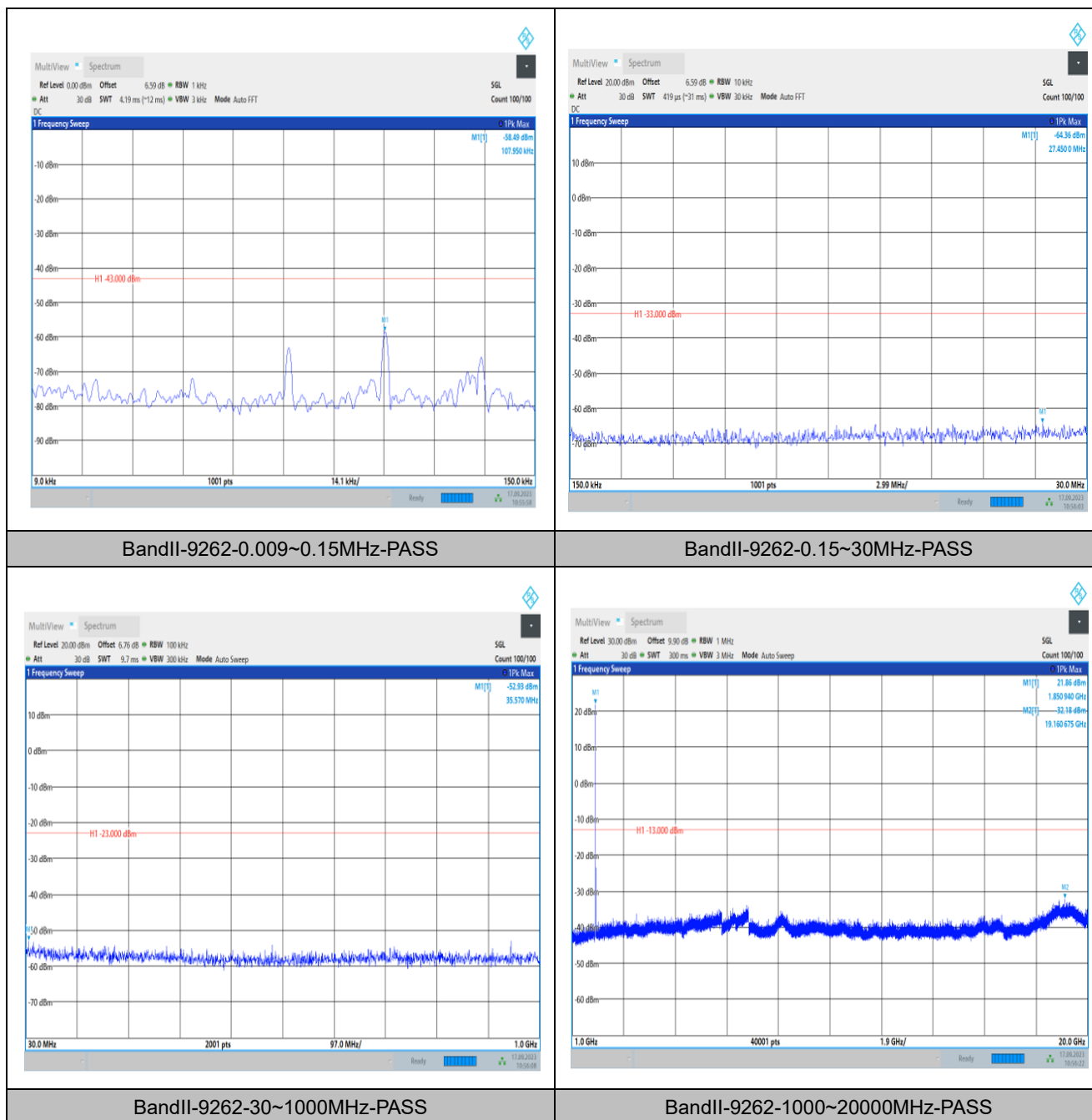
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Conducted SpuriousEmission

Test Graphs



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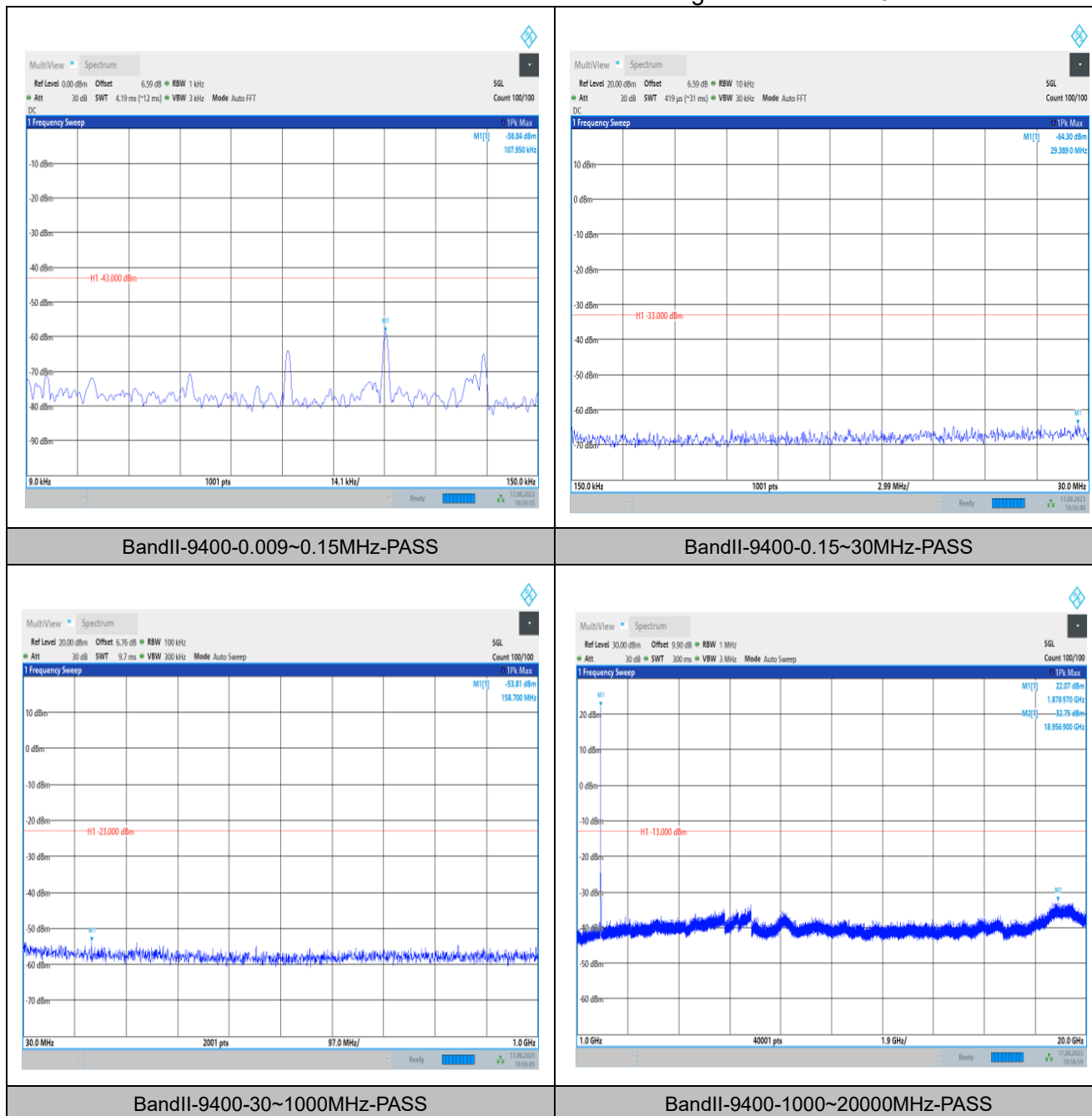
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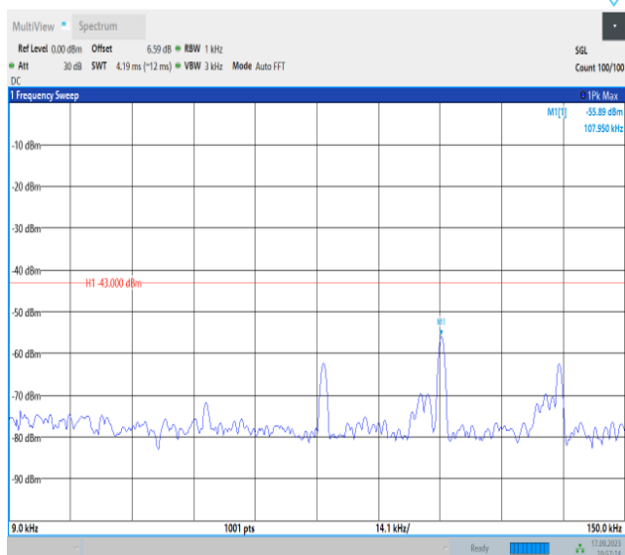
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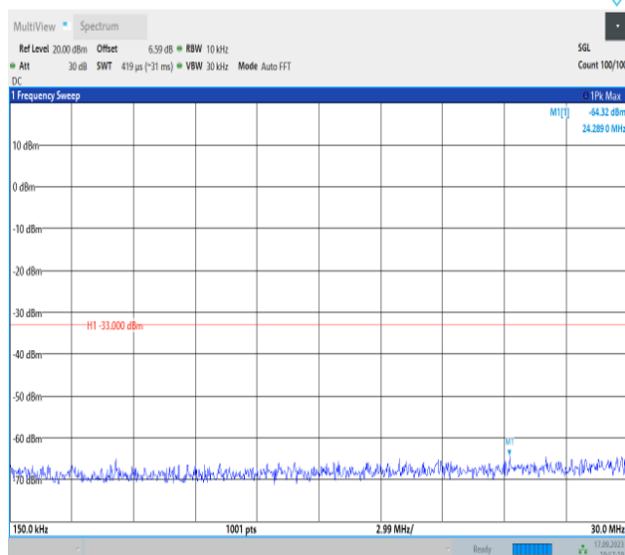
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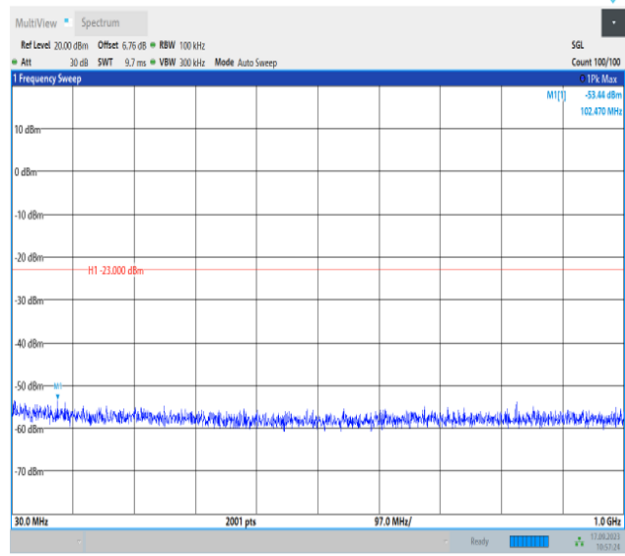
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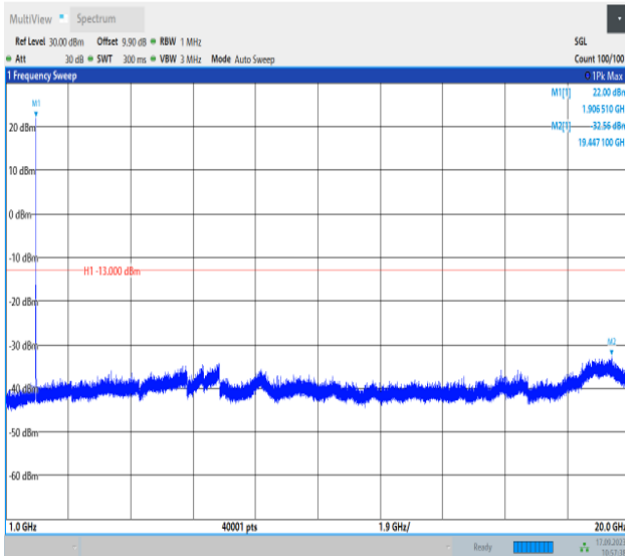
BandII-9538-0.009~0.15MHz-PASS



BandII-9538-0.15~30MHz-PASS



BandII-9538-30~1000MHz-PASS



BandII-9538-1000~20000MHz-PASS



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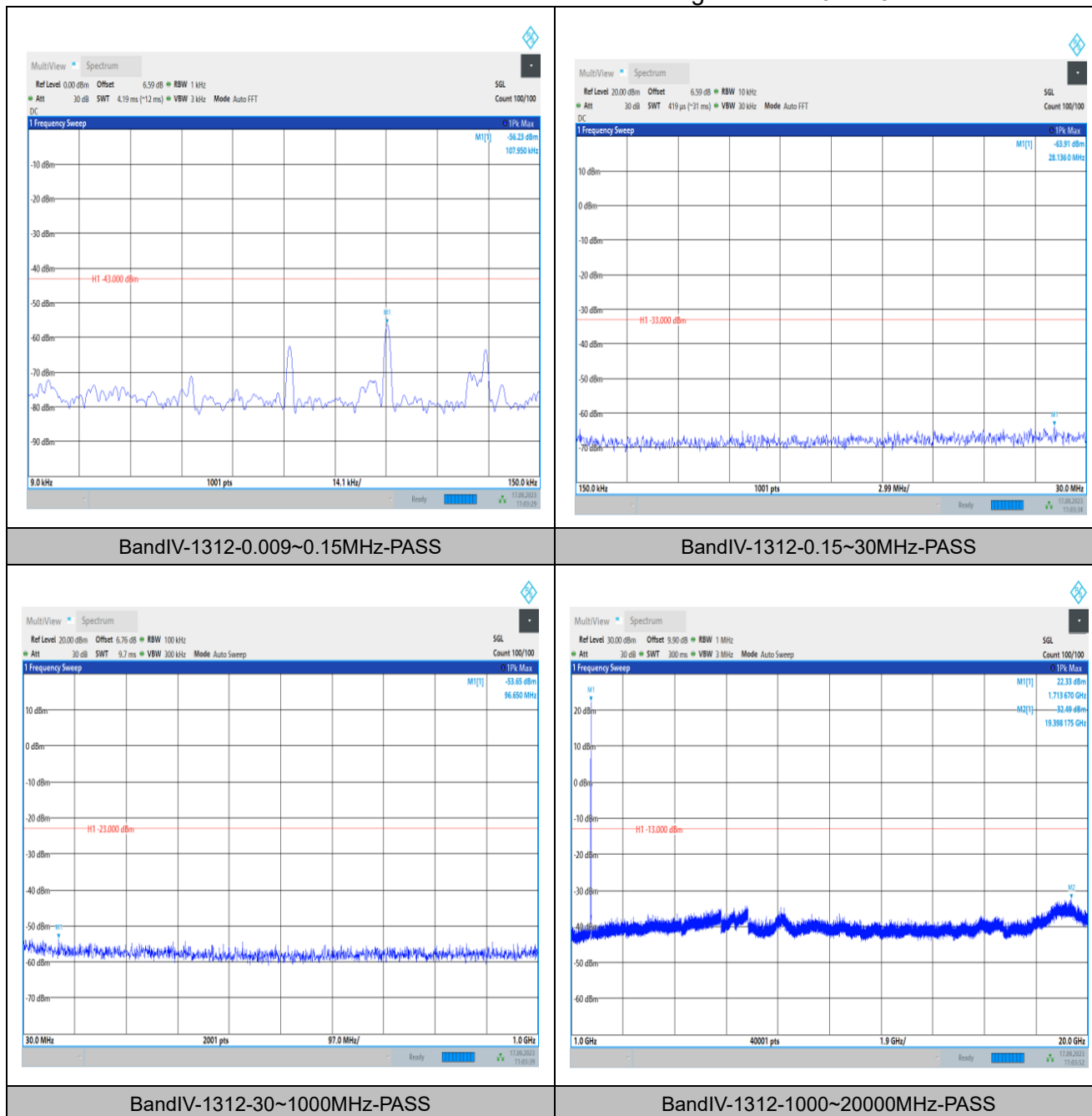
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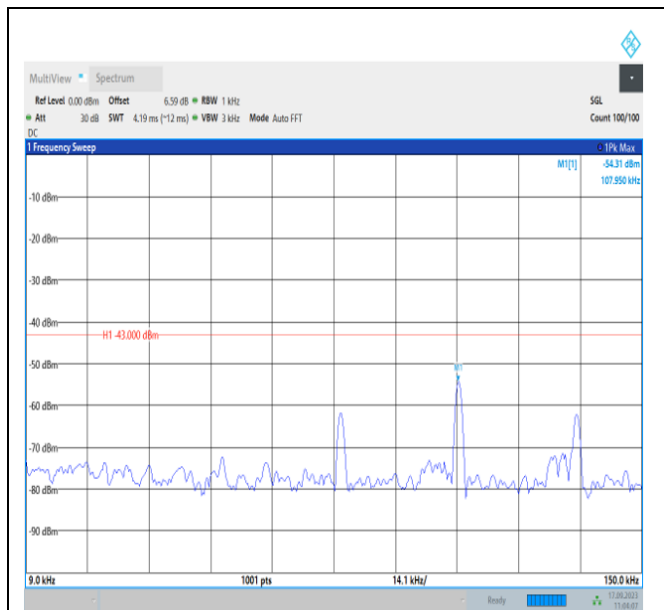
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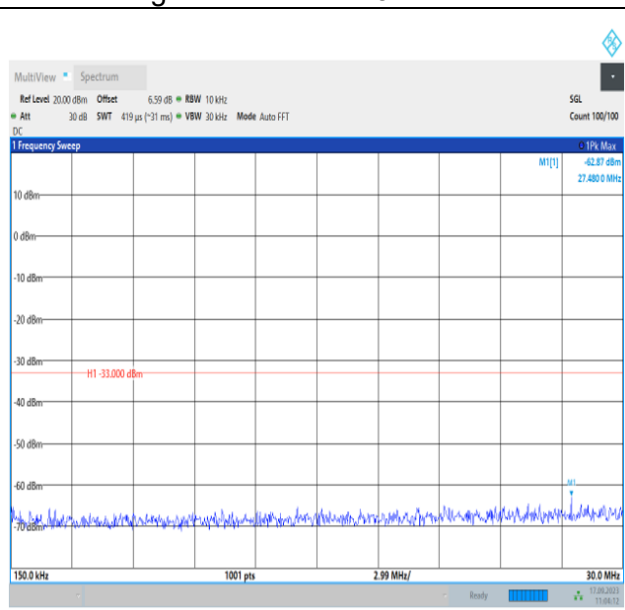
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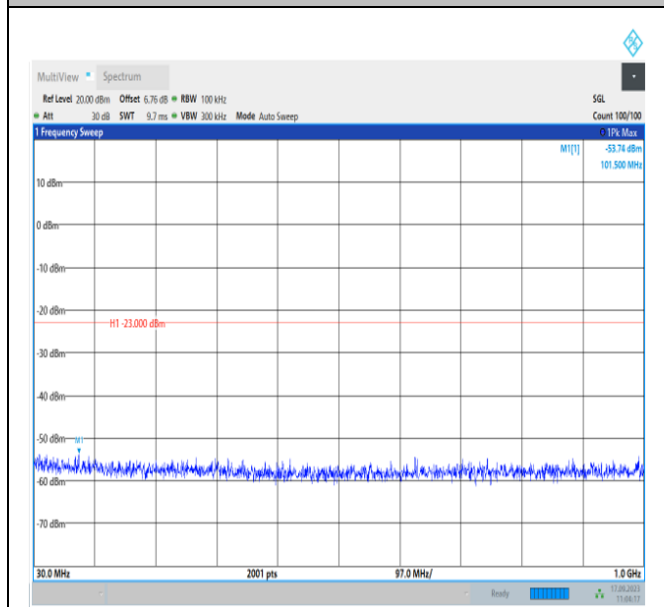
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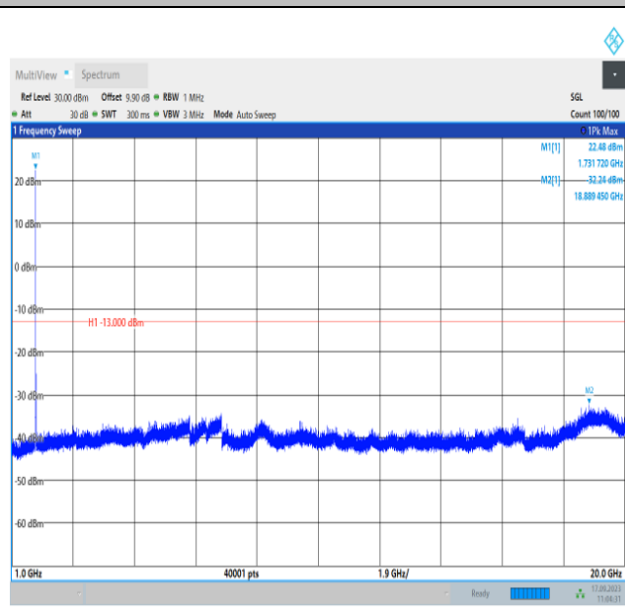
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BandIV-1413-0.15~30MHz-PASS



BandIV-1413-30~1000MHz-PASS



BandIV-1413-1000~20000MHz-PASS



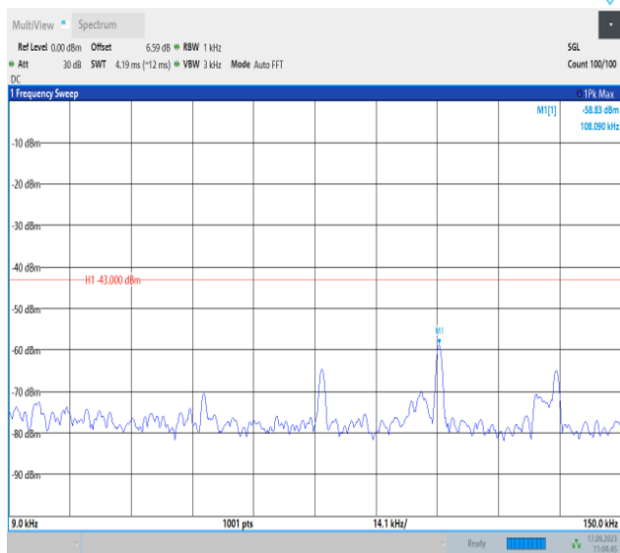
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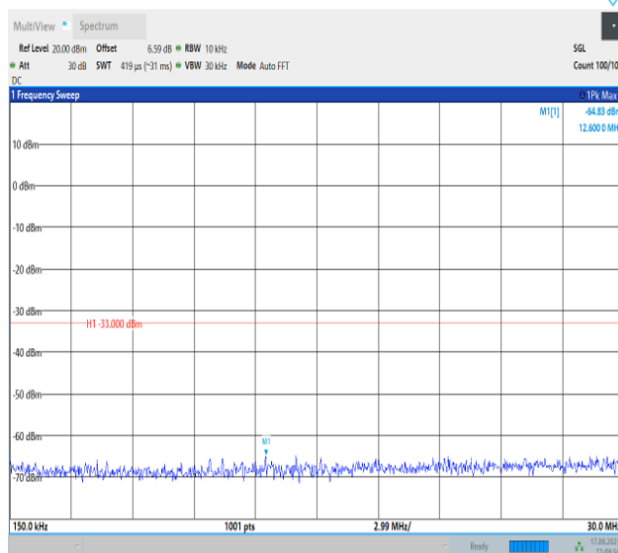
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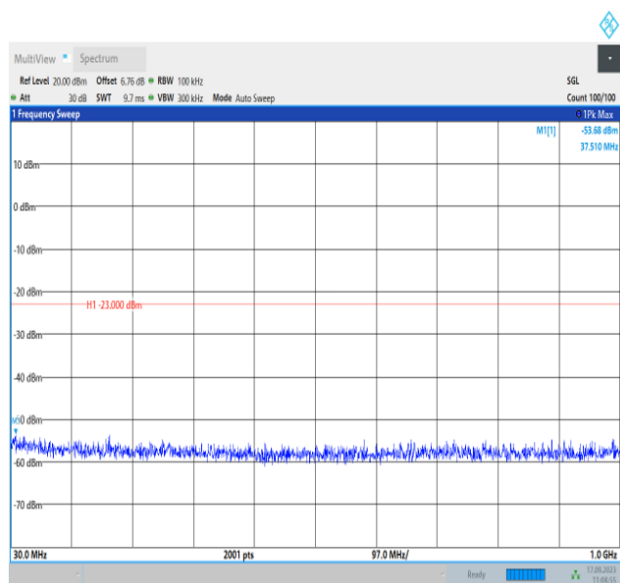
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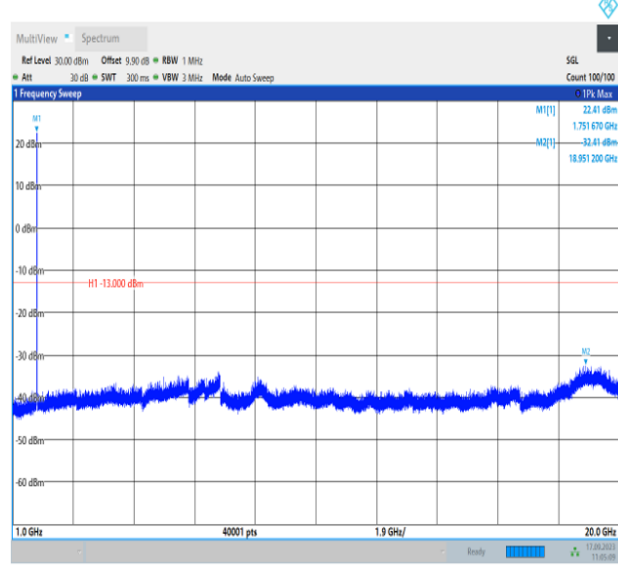
BandIV-1513-0.009~0.15MHz-PASS



BandIV-1513-0.15~30MHz-PASS



BandIV-1513-30~1000MHz-PASS



BandIV-1513-1000~20000MHz-PASS



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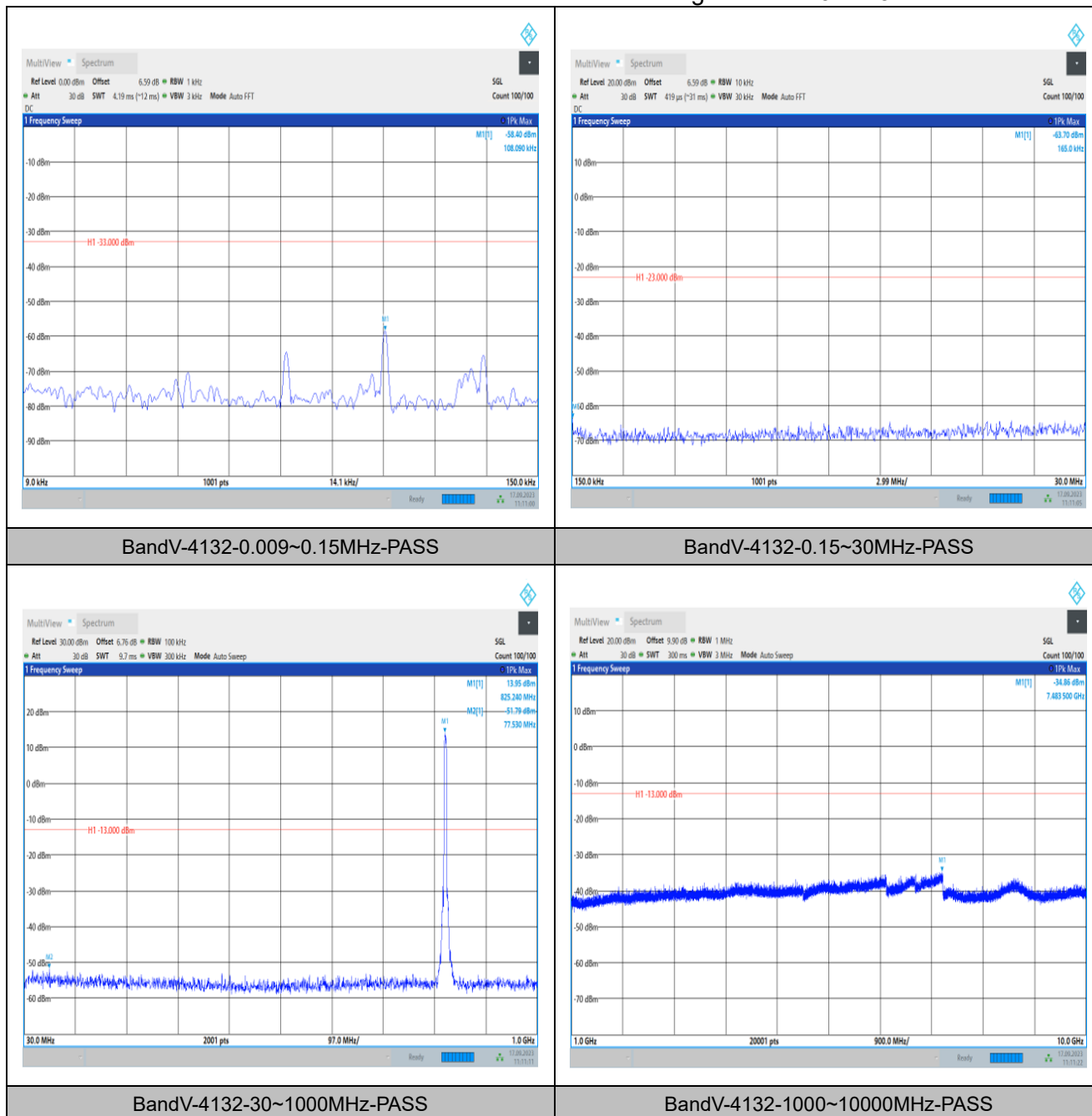
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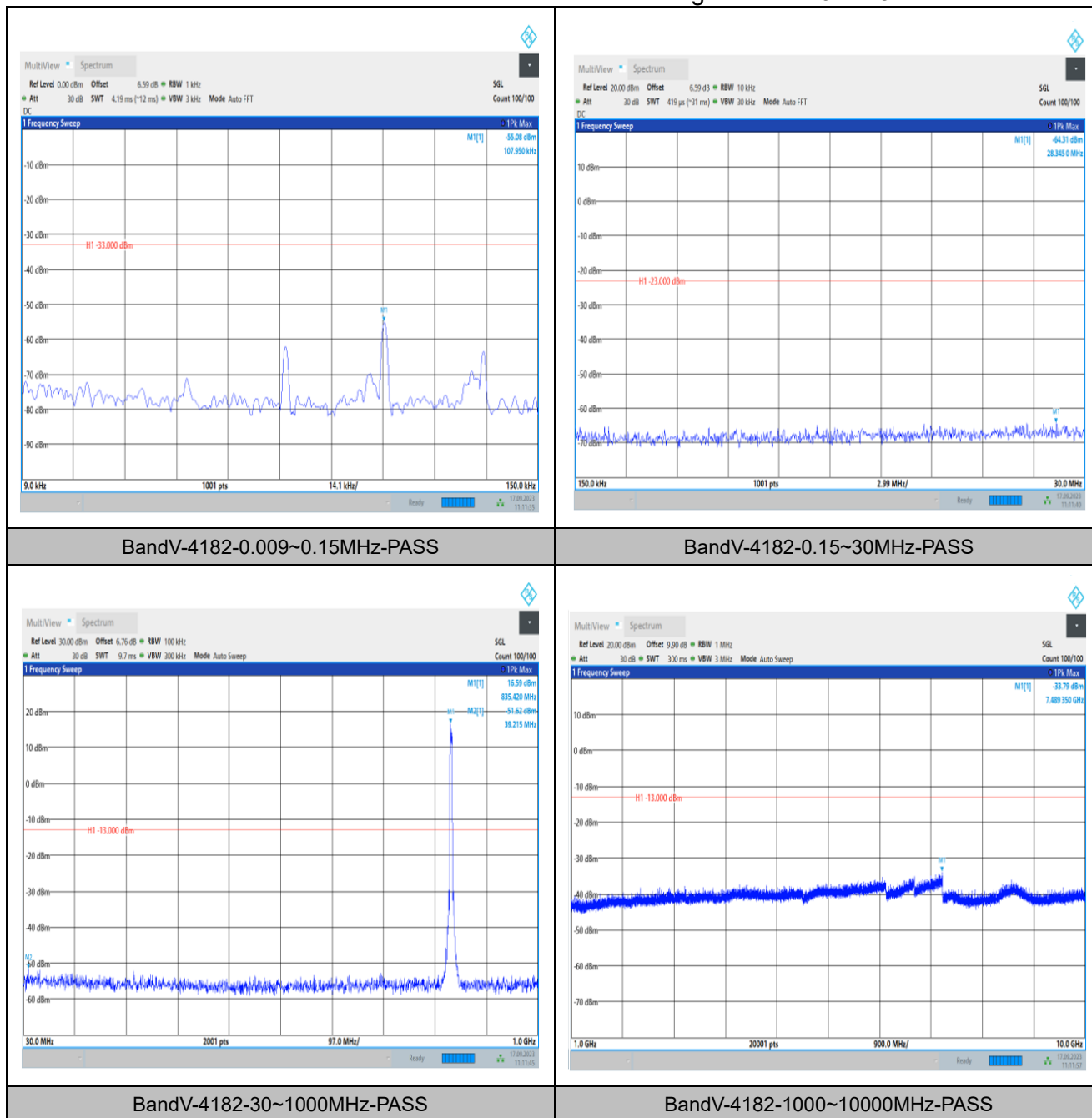
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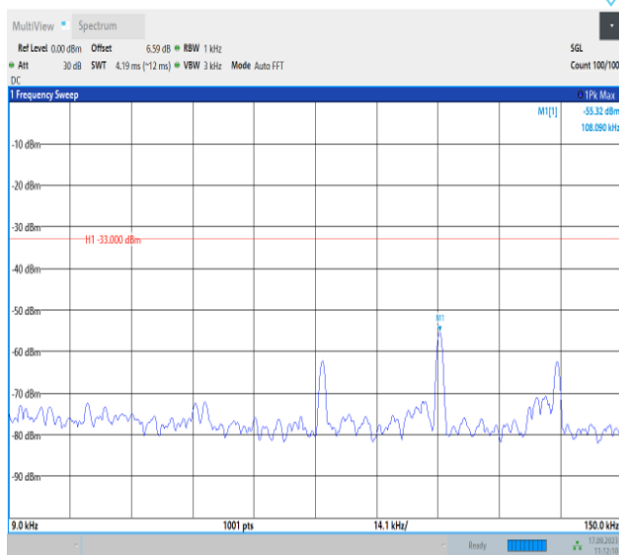
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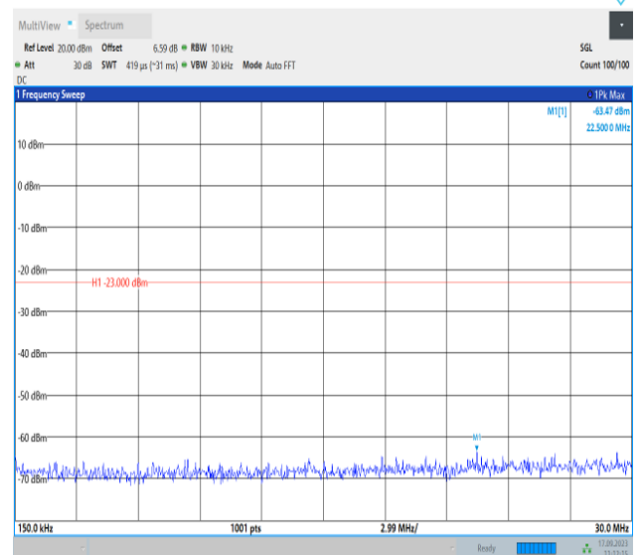
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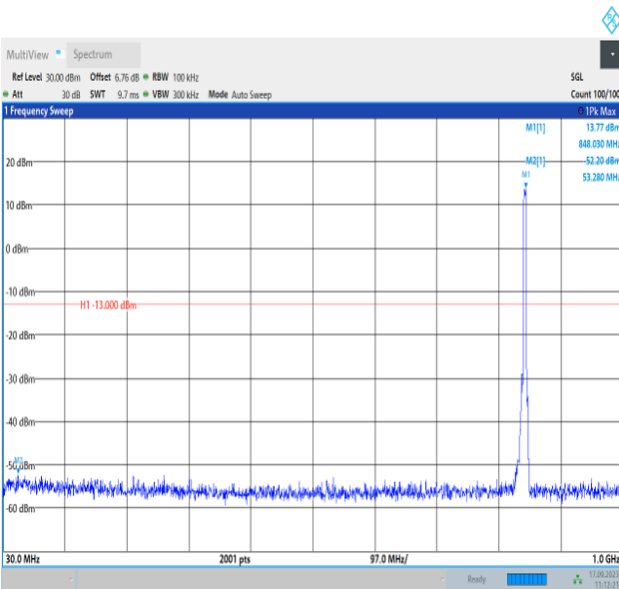
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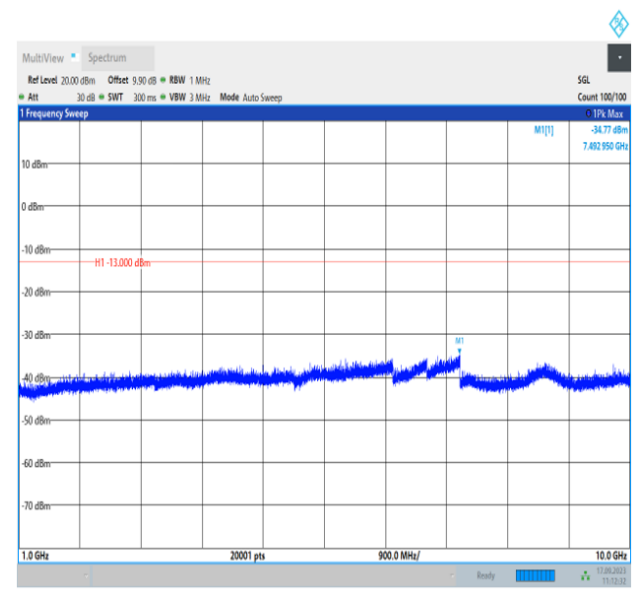
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BandV-4233-0.15~30MHz-PASS



BandV-4233-30~1000MHz-PASS



BandV-4233-1000~10000MHz-PASS



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Field Strength of Spurious Radiation

Test Band = WCDMA_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	2975.5	37.16	-17.21	28.45	-46.86	-13.00	33.86	Horizontal
2	3703	48.22	-44.52	29.32	-62.24	-13.00	49.24	Horizontal
3	5524.5	49.67	-41.75	32.30	-55.04	-13.00	42.04	Horizontal
4	7502	44.19	-38.30	36.88	-52.49	-13.00	39.49	Horizontal
5	11106	43.18	-37.69	40.20	-49.57	-13.00	36.57	Horizontal
6	17986	41.21	-43.15	47.95	-49.25	-13.00	36.25	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2973	37.29	-17.17	28.44	-46.70	-13.00	33.70	Vertical
2	3703	48.12	-44.52	29.32	-62.34	-13.00	49.34	Vertical
3	5524.5	49.29	-41.75	32.30	-55.42	-13.00	42.42	Vertical
4	7417.5	44.22	-38.28	36.74	-52.58	-13.00	39.58	Vertical
5	11030.5	42.94	-37.17	40.13	-49.36	-13.00	36.36	Vertical
6	17993.5	40.94	-43.09	48.08	-49.33	-13.00	36.33	Vertical



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Test Band = WCDMA_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	2999	37.27	-17.44	28.59	-46.84	-13.00	33.84	Horizontal
2	3925	47.22	-44.19	29.80	-62.43	-13.00	49.43	Horizontal
3	5524.5	49.99	-41.75	32.30	-54.72	-13.00	41.72	Horizontal
4	7864	43.54	-37.63	36.72	-52.63	-13.00	39.63	Horizontal
5	11025	42.69	-37.13	40.13	-49.57	-13.00	36.57	Horizontal
6	17999	40.75	-43.05	48.18	-49.38	-13.00	36.38	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2979.5	37.27	-17.29	28.48	-46.80	-13.00	33.80	Vertical
2	3987	47.06	-44.17	29.83	-62.54	-13.00	49.54	Vertical
3	5524.5	49.13	-41.75	32.30	-55.58	-13.00	42.58	Vertical
4	7406	43.96	-38.28	36.71	-52.87	-13.00	39.87	Vertical
5	9918	42.72	-35.43	38.62	-49.35	-13.00	36.35	Vertical
6	17995	40.92	-43.08	48.11	-49.31	-13.00	36.31	Vertical



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Test Band = WCDMA_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	2996.5	37.50	-17.43	28.58	-46.61	-13.00	33.61	Horizontal
2	3976	46.85	-44.18	29.85	-62.74	-13.00	49.74	Horizontal
3	5524.5	49.21	-41.75	32.30	-55.50	-13.00	42.50	Horizontal
4	7474	44.11	-38.29	36.85	-52.59	-13.00	39.59	Horizontal
5	9916.5	42.62	-35.39	38.62	-49.41	-13.00	36.41	Horizontal
6	17995	41.14	-43.08	48.11	-49.09	-13.00	36.09	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2998.5	37.40	-17.44	28.59	-46.71	-13.00	33.71	Vertical
2	3827.5	47.87	-44.73	29.75	-62.37	-13.00	49.37	Vertical
3	5524.5	49.24	-41.75	32.30	-55.47	-13.00	42.47	Vertical
4	7487	44.36	-38.29	36.87	-52.32	-13.00	39.32	Vertical
5	9910	42.42	-35.22	38.61	-49.45	-13.00	36.45	Vertical
6	17999	41.14	-43.05	48.18	-48.99	-13.00	35.99	Vertical

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Test Band = WCDMA_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	2997	37.36	-17.43	28.58	-46.75	-13.00	33.75	Horizontal
2	3423.5	48.50	-45.32	28.74	-63.34	-13.00	50.34	Horizontal
3	5524.5	49.62	-41.75	32.30	-55.09	-13.00	42.09	Horizontal
4	7421	44.10	-38.28	36.74	-52.70	-13.00	39.70	Horizontal
5	9903	42.14	-35.04	38.60	-49.56	-13.00	36.56	Horizontal
6	16597	42.16	-35.35	39.49	-48.96	-13.00	35.96	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2994	37.34	-17.43	28.56	-46.79	-13.00	33.79	Vertical
2	3427	49.98	-45.31	28.76	-61.83	-13.00	48.83	Vertical
3	5524.5	49.14	-41.75	32.30	-55.57	-13.00	42.57	Vertical
4	7430.5	43.92	-38.28	36.76	-52.86	-13.00	39.86	Vertical
5	9918	42.63	-35.43	38.62	-49.44	-13.00	36.44	Vertical
6	17983.5	41.65	-43.17	47.90	-48.88	-13.00	35.88	Vertical

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Test Band = WCDMA_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	2971	37.17	-17.13	28.43	-46.79	-13.00	33.79	Horizontal
2	3931.5	47.06	-44.19	29.83	-62.56	-13.00	49.56	Horizontal
3	5524.5	49.65	-41.75	32.30	-55.06	-13.00	42.06	Horizontal
4	7412.5	44.09	-38.28	36.73	-52.72	-13.00	39.72	Horizontal
5	9908	42.12	-35.17	38.61	-49.70	-13.00	36.70	Horizontal
6	17996.5	41.39	-43.07	48.14	-48.80	-13.00	35.80	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2950	37.27	-17.15	28.30	-46.84	-13.00	33.84	Vertical
2	3944	47.14	-44.19	29.88	-62.43	-13.00	49.43	Vertical
3	5524.5	49.10	-41.75	32.30	-55.61	-13.00	42.61	Vertical
4	7431.5	44.11	-38.28	36.76	-52.67	-13.00	39.67	Vertical
5	9905	42.58	-35.09	38.61	-49.16	-13.00	36.16	Vertical
6	17990.5	41.65	-43.12	48.03	-48.70	-13.00	35.70	Vertical



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Test Band = WCDMA_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	2990.5	37.42	-17.42	28.54	-46.72	-13.00	33.72	Horizontal
2	3967.5	47.23	-44.18	29.87	-62.34	-13.00	49.34	Horizontal
3	5524.5	49.26	-41.75	32.30	-55.45	-13.00	42.45	Horizontal
4	7420.5	44.17	-38.28	36.74	-52.63	-13.00	39.63	Horizontal
5	10963.5	42.82	-37.14	40.14	-49.44	-13.00	36.44	Horizontal
6	16603.5	42.25	-35.55	39.50	-49.06	-13.00	36.06	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2999	37.51	-17.44	28.59	-46.60	-13.00	33.60	Vertical
2	3913.5	47.66	-44.20	29.75	-62.05	-13.00	49.05	Vertical
3	5524.5	49.28	-41.75	32.30	-55.43	-13.00	42.43	Vertical
4	7393	44.39	-38.32	36.67	-52.52	-13.00	39.52	Vertical
5	10950	42.83	-37.21	40.15	-49.49	-13.00	36.49	Vertical
6	17992.5	41.09	-43.10	48.07	-49.20	-13.00	36.20	Vertical

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Test Band = WCDMA_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	1058.5	55.62	-47.24	24.13	-62.75	-13.00	49.75	Horizontal
2	1651.5	48.13	-47.52	25.49	-69.16	-13.00	56.16	Horizontal
3	2540.5	56.05	-46.48	27.80	-57.89	-13.00	44.89	Horizontal
4	4452.5	46.53	-43.15	30.08	-61.80	-13.00	48.80	Horizontal
5	5524.5	50.24	-41.87	32.30	-54.59	-13.00	41.59	Horizontal
6	7428	43.93	-38.36	36.76	-52.93	-13.00	39.93	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.80	-47.24	24.13	-64.57	-13.00	51.57	Vertical
2	1411.5	51.21	-47.42	24.99	-66.48	-13.00	53.48	Vertical
3	2046.5	55.38	-46.90	26.31	-60.47	-13.00	47.47	Vertical
4	2540.5	55.13	-46.48	27.80	-58.81	-13.00	45.81	Vertical
5	5524.5	49.19	-41.87	32.30	-55.64	-13.00	42.64	Vertical
6	7492.5	43.52	-38.38	36.89	-53.23	-13.00	40.23	Vertical



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Test Band = WCDMA_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	1058.5	56.18	-47.24	24.13	-62.19	-13.00	49.19	Horizontal
2	2046.5	53.70	-46.90	26.31	-62.15	-13.00	49.15	Horizontal
3	2540.5	56.18	-46.48	27.80	-57.76	-13.00	44.76	Horizontal
4	5524.5	49.68	-41.87	32.30	-55.15	-13.00	42.15	Horizontal
5	7419.5	43.39	-38.36	36.74	-53.49	-13.00	40.49	Horizontal
6	9911	42.03	-35.33	38.61	-49.95	-13.00	36.95	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.25	-47.24	24.13	-64.12	-13.00	51.12	Vertical
2	1411.5	51.17	-47.42	24.99	-66.52	-13.00	53.52	Vertical
3	2046.5	55.29	-46.90	26.31	-60.56	-13.00	47.56	Vertical
4	2681.5	54.81	-46.18	27.96	-58.67	-13.00	45.67	Vertical
5	5524.5	48.84	-41.87	32.30	-55.99	-13.00	42.99	Vertical
6	8449	43.08	-36.68	36.40	-52.46	-13.00	39.46	Vertical



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Test Band = WCDMA_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	1058.5	55.45	-47.24	24.13	-62.92	-13.00	49.92	Horizontal
2	2046.5	53.21	-46.90	26.31	-62.64	-13.00	49.64	Horizontal
3	2540.5	56.20	-46.48	27.80	-57.74	-13.00	44.74	Horizontal
4	5524.5	49.50	-41.87	32.30	-55.33	-13.00	42.33	Horizontal
5	7410	43.33	-38.35	36.72	-53.56	-13.00	40.56	Horizontal
6	9915.5	41.75	-35.35	38.62	-50.24	-13.00	37.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.78	-47.24	24.13	-64.59	-13.00	51.59	Vertical
2	1411.5	50.82	-47.42	24.99	-66.87	-13.00	53.87	Vertical
3	2046.5	55.57	-46.90	26.31	-60.28	-13.00	47.28	Vertical
4	2681.5	55.04	-46.18	27.96	-58.44	-13.00	45.44	Vertical
5	5524.5	49.18	-41.87	32.30	-55.65	-13.00	42.65	Vertical
6	7402.5	43.83	-38.35	36.71	-53.07	-13.00	40.07	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	VN	NT	-8.70	-0.004628	PASS
BandII	9400	VL	NT	-11.87	-0.006314	PASS
BandII	9400	VH	NT	-6.90	-0.003670	PASS
BandIV	1413	VN	NT	-9.26	-0.005345	PASS
BandIV	1413	VL	NT	-9.01	-0.005200	PASS
BandIV	1413	VH	NT	-9.66	-0.005575	PASS

Temperature						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	NV	-30	-10.40	-0.005532	PASS
BandII	9400	NV	-20	-8.31	-0.004420	PASS
BandII	9400	NV	-10	-7.76	-0.004128	PASS
BandII	9400	NV	0	-9.73	-0.005176	PASS
BandII	9400	NV	10	-7.22	-0.003840	PASS
BandII	9400	NV	20	-7.63	-0.004059	PASS
BandII	9400	NV	30	-7.20	-0.003830	PASS
BandII	9400	NV	40	-8.84	-0.004702	PASS
BandII	9400	NV	50	-5.61	-0.002984	PASS
BandIV	1413	NV	-30	-8.07	-0.004658	PASS
BandIV	1413	NV	-20	-11.88	-0.006857	PASS
BandIV	1413	NV	-10	-11.09	-0.006401	PASS
BandIV	1413	NV	0	-9.41	-0.005431	PASS
BandIV	1413	NV	10	-8.80	-0.005079	PASS
BandIV	1413	NV	20	-7.89	-0.004554	PASS
BandIV	1413	NV	30	-7.10	-0.004098	PASS
BandIV	1413	NV	40	-6.67	-0.003850	PASS
BandIV	1413	NV	50	-7.93	-0.004577	PASS



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Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	VN	NT	-12.04	-0.014395	±2.5	PASS
BandV	4182	VL	NT	-8.25	-0.009864	±2.5	PASS
BandV	4182	VH	NT	-11.57	-0.013833	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	NV	-30	-9.86	-0.011789	±2.5	PASS
BandV	4182	NV	-20	-8.88	-0.010617	±2.5	PASS
BandV	4182	NV	-10	-12.79	-0.015292	±2.5	PASS
BandV	4182	NV	0	-4.72	-0.005643	±2.5	PASS
BandV	4182	NV	10	-8.53	-0.010198	±2.5	PASS
BandV	4182	NV	20	-11.07	-0.013235	±2.5	PASS
BandV	4182	NV	30	-4.67	-0.005583	±2.5	PASS
BandV	4182	NV	40	-6.47	-0.007736	±2.5	PASS
BandV	4182	NV	50	-8.96	-0.010713	±2.5	PASS

---End of Attachment---



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Wireless Laboratory

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