

CTC20192260E02 Appendix for WCDMA
BAND4-2
FCC ID: 2AC88-GLMU19A02

CTC Laboratories, Inc.

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APPENDIXE: CONDUCTED SPURIOUS EMISSION	65
APPENDIXF: FREQUENCY STABILITY	132

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AppendixE:Conducted SpuriousEmission

Test Result

WCDMA:

Band	Channel	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band IV	1312	0.009~0.15	-76.50	-33	PASS
Band IV	1312	0.15~30	-51.85	-13	PASS
Band IV	1312	30~1000	-39.82	-13	PASS
Band IV	1312	1000~3000	-45.89	-13	PASS
Band IV	1312	3000~10000	-39.01	-13	PASS
Band IV	1312	10000~18000	-53.45	-13	PASS
Band IV	1413	0.009~0.15	-75.15	-33	PASS
Band IV	1413	0.15~30	-51.32	-13	PASS
Band IV	1413	30~1000	-39.48	-13	PASS
Band IV	1413	1000~3000	-45.95	-13	PASS
Band IV	1413	3000~10000	-38.51	-13	PASS
Band IV	1413	10000~18000	-53.42	-13	PASS
Band IV	1513	0.009~0.15	-76.29	-33	PASS
Band IV	1513	0.15~30	-51.97	-13	PASS
Band IV	1513	30~1000	-39.47	-13	PASS
Band IV	1513	1000~3000	-45.89	-13	PASS
Band IV	1513	3000~10000	-38.87	-13	PASS
Band IV	1513	10000~18000	-53.35	-13	PASS

HSDPA:

Band	Channel	SubTest	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band IV	1312	HSDPA_Sub1	0.009~0.15	-74.95	-33	PASS
Band IV	1312	HSDPA_Sub2	0.009~0.15	-75.91	-33	PASS
Band IV	1312	HSDPA_Sub3	0.009~0.15	-75.27	-33	PASS
Band IV	1312	HSDPA_Sub4	0.009~0.15	-75.62	-33	PASS
Band IV	1312	HSDPA_Sub1	0.15~30	-51.96	-13	PASS
Band IV	1312	HSDPA_Sub2	0.15~30	-44.06	-13	PASS
Band IV	1312	HSDPA_Sub3	0.15~30	-44.47	-13	PASS
Band IV	1312	HSDPA_Sub4	0.15~30	-44.22	-13	PASS
Band IV	1312	HSDPA_Sub1	30~1000	-40.03	-13	PASS
Band IV	1312	HSDPA_Sub2	30~1000	-38.93	-13	PASS
Band IV	1312	HSDPA_Sub3	30~1000	-38.81	-13	PASS
Band IV	1312	HSDPA_Sub4	30~1000	-39.53	-13	PASS
Band IV	1312	HSDPA_Sub1	1000~3000	-45.81	-13	PASS
Band IV	1312	HSDPA_Sub2	1000~3000	-45.82	-13	PASS

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Band IV	1312	HSDPA_Sub3	1000~3000	-45.87	-13	PASS
Band IV	1312	HSDPA_Sub4	1000~3000	-45.87	-13	PASS
Band IV	1312	HSDPA_Sub1	3000~10000	-40.74	-13	PASS
Band IV	1312	HSDPA_Sub2	3000~10000	-40.96	-13	PASS
Band IV	1312	HSDPA_Sub3	3000~10000	-40.61	-13	PASS
Band IV	1312	HSDPA_Sub4	3000~10000	-39.99	-13	PASS
Band IV	1312	HSDPA_Sub1	10000~18000	-53.46	-13	PASS
Band IV	1312	HSDPA_Sub2	10000~18000	-53.50	-13	PASS
Band IV	1312	HSDPA_Sub3	10000~18000	-53.40	-13	PASS
Band IV	1312	HSDPA_Sub4	10000~18000	-53.47	-13	PASS
Band IV	1413	HSDPA_Sub1	0.009~0.15	-74.28	-33	PASS
Band IV	1413	HSDPA_Sub2	0.009~0.15	-75.13	-33	PASS
Band IV	1413	HSDPA_Sub3	0.009~0.15	-74.52	-33	PASS
Band IV	1413	HSDPA_Sub4	0.009~0.15	-76.39	-33	PASS
Band IV	1413	HSDPA_Sub1	0.15~30	-44.27	-13	PASS
Band IV	1413	HSDPA_Sub2	0.15~30	-52.34	-13	PASS
Band IV	1413	HSDPA_Sub3	0.15~30	-43.78	-13	PASS
Band IV	1413	HSDPA_Sub4	0.15~30	-45.95	-13	PASS
Band IV	1413	HSDPA_Sub1	30~1000	-40.56	-13	PASS
Band IV	1413	HSDPA_Sub2	30~1000	-40.10	-13	PASS
Band IV	1413	HSDPA_Sub3	30~1000	-40.27	-13	PASS
Band IV	1413	HSDPA_Sub4	30~1000	-39.37	-13	PASS
Band IV	1413	HSDPA_Sub1	1000~3000	-45.88	-13	PASS
Band IV	1413	HSDPA_Sub2	1000~3000	-45.92	-13	PASS
Band IV	1413	HSDPA_Sub3	1000~3000	-45.87	-13	PASS
Band IV	1413	HSDPA_Sub4	1000~3000	-45.82	-13	PASS
Band IV	1413	HSDPA_Sub1	3000~10000	-39.80	-13	PASS
Band IV	1413	HSDPA_Sub2	3000~10000	-39.89	-13	PASS
Band IV	1413	HSDPA_Sub3	3000~10000	-40.45	-13	PASS
Band IV	1413	HSDPA_Sub4	3000~10000	-39.60	-13	PASS
Band IV	1413	HSDPA_Sub1	10000~18000	-53.46	-13	PASS
Band IV	1413	HSDPA_Sub2	10000~18000	-53.36	-13	PASS
Band IV	1413	HSDPA_Sub3	10000~18000	-53.56	-13	PASS
Band IV	1413	HSDPA_Sub4	10000~18000	-53.58	-13	PASS
Band IV	1513	HSDPA_Sub1	0.009~0.15	-75.99	-33	PASS
Band IV	1513	HSDPA_Sub2	0.009~0.15	-75.86	-33	PASS
Band IV	1513	HSDPA_Sub3	0.009~0.15	-76.01	-33	PASS
Band IV	1513	HSDPA_Sub4	0.009~0.15	-74.16	-33	PASS
Band IV	1513	HSDPA_Sub1	0.15~30	-43.73	-13	PASS
Band IV	1513	HSDPA_Sub2	0.15~30	-45.33	-13	PASS

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Band IV	1513	HSDPA_Sub3	0.15~30	-44.41	-13	PASS
Band IV	1513	HSDPA_Sub4	0.15~30	-53.48	-13	PASS
Band IV	1513	HSDPA_Sub1	30~1000	-39.99	-13	PASS
Band IV	1513	HSDPA_Sub2	30~1000	-39.71	-13	PASS
Band IV	1513	HSDPA_Sub3	30~1000	-38.95	-13	PASS
Band IV	1513	HSDPA_Sub4	30~1000	-39.75	-13	PASS
Band IV	1513	HSDPA_Sub1	1000~3000	-45.79	-13	PASS
Band IV	1513	HSDPA_Sub2	1000~3000	-45.83	-13	PASS
Band IV	1513	HSDPA_Sub3	1000~3000	-45.87	-13	PASS
Band IV	1513	HSDPA_Sub4	1000~3000	-45.86	-13	PASS
Band IV	1513	HSDPA_Sub1	3000~10000	-40.16	-13	PASS
Band IV	1513	HSDPA_Sub2	3000~10000	-39.97	-13	PASS
Band IV	1513	HSDPA_Sub3	3000~10000	-40.00	-13	PASS
Band IV	1513	HSDPA_Sub4	3000~10000	-40.45	-13	PASS
Band IV	1513	HSDPA_Sub1	10000~18000	-53.40	-13	PASS
Band IV	1513	HSDPA_Sub2	10000~18000	-53.36	-13	PASS
Band IV	1513	HSDPA_Sub3	10000~18000	-53.42	-13	PASS
Band IV	1513	HSDPA_Sub4	10000~18000	-53.49	-13	PASS

HSUPA:

Band	Channel	SubTest	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band IV	1312	HSUPA_Sub1	0.009~0.15	-74.81	-33	PASS
Band IV	1312	HSUPA_Sub2	0.009~0.15	-70.70	-33	PASS
Band IV	1312	HSUPA_Sub3	0.009~0.15	-68.41	-33	PASS
Band IV	1312	HSUPA_Sub4	0.009~0.15	-76.49	-33	PASS
Band IV	1312	HSUPA_Sub5	0.009~0.15	-76.60	-33	PASS
Band IV	1312	HSUPA_Sub1	0.15~30	-48.68	-13	PASS
Band IV	1312	HSUPA_Sub2	0.15~30	-52.41	-13	PASS
Band IV	1312	HSUPA_Sub3	0.15~30	-43.39	-13	PASS
Band IV	1312	HSUPA_Sub4	0.15~30	-44.40	-13	PASS
Band IV	1312	HSUPA_Sub5	0.15~30	-45.59	-13	PASS
Band IV	1312	HSUPA_Sub1	30~1000	-40.02	-13	PASS
Band IV	1312	HSUPA_Sub2	30~1000	-39.30	-13	PASS
Band IV	1312	HSUPA_Sub3	30~1000	-40.28	-13	PASS
Band IV	1312	HSUPA_Sub4	30~1000	-39.78	-13	PASS
Band IV	1312	HSUPA_Sub5	30~1000	-40.12	-13	PASS
Band IV	1312	HSUPA_Sub1	1000~3000	-45.87	-13	PASS
Band IV	1312	HSUPA_Sub2	1000~3000	-45.70	-13	PASS
Band IV	1312	HSUPA_Sub3	1000~3000	-45.40	-13	PASS
Band IV	1312	HSUPA_Sub4	1000~3000	-45.58	-13	PASS

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Band IV	1312	HSUPA_Sub5	1000~3000	-45.93	-13	PASS
Band IV	1312	HSUPA_Sub1	3000~10000	-40.79	-13	PASS
Band IV	1312	HSUPA_Sub2	3000~10000	-39.96	-13	PASS
Band IV	1312	HSUPA_Sub3	3000~10000	-40.22	-13	PASS
Band IV	1312	HSUPA_Sub4	3000~10000	-41.19	-13	PASS
Band IV	1312	HSUPA_Sub5	3000~10000	-39.55	-13	PASS
Band IV	1312	HSUPA_Sub1	10000~18000	-53.48	-13	PASS
Band IV	1312	HSUPA_Sub2	10000~18000	-53.50	-13	PASS
Band IV	1312	HSUPA_Sub3	10000~18000	-53.26	-13	PASS
Band IV	1312	HSUPA_Sub4	10000~18000	-53.51	-13	PASS
Band IV	1312	HSUPA_Sub5	10000~18000	-53.36	-13	PASS
Band IV	1413	HSUPA_Sub1	0.009~0.15	-68.88	-33	PASS
Band IV	1413	HSUPA_Sub2	0.009~0.15	-74.30	-33	PASS
Band IV	1413	HSUPA_Sub3	0.009~0.15	-75.17	-33	PASS
Band IV	1413	HSUPA_Sub4	0.009~0.15	-76.48	-33	PASS
Band IV	1413	HSUPA_Sub5	0.009~0.15	-72.40	-33	PASS
Band IV	1413	HSUPA_Sub1	0.15~30	-43.44	-13	PASS
Band IV	1413	HSUPA_Sub2	0.15~30	-48.89	-13	PASS
Band IV	1413	HSUPA_Sub3	0.15~30	-52.82	-13	PASS
Band IV	1413	HSUPA_Sub4	0.15~30	-43.52	-13	PASS
Band IV	1413	HSUPA_Sub5	0.15~30	-45.08	-13	PASS
Band IV	1413	HSUPA_Sub1	30~1000	-38.91	-13	PASS
Band IV	1413	HSUPA_Sub2	30~1000	-39.79	-13	PASS
Band IV	1413	HSUPA_Sub3	30~1000	-39.61	-13	PASS
Band IV	1413	HSUPA_Sub4	30~1000	-39.65	-13	PASS
Band IV	1413	HSUPA_Sub5	30~1000	-39.59	-13	PASS
Band IV	1413	HSUPA_Sub1	1000~3000	-45.93	-13	PASS
Band IV	1413	HSUPA_Sub2	1000~3000	-45.98	-13	PASS
Band IV	1413	HSUPA_Sub3	1000~3000	-45.96	-13	PASS
Band IV	1413	HSUPA_Sub4	1000~3000	-45.95	-13	PASS
Band IV	1413	HSUPA_Sub5	1000~3000	-45.93	-13	PASS
Band IV	1413	HSUPA_Sub1	3000~10000	-39.18	-13	PASS
Band IV	1413	HSUPA_Sub2	3000~10000	-39.42	-13	PASS
Band IV	1413	HSUPA_Sub3	3000~10000	-39.37	-13	PASS
Band IV	1413	HSUPA_Sub4	3000~10000	-40.06	-13	PASS
Band IV	1413	HSUPA_Sub5	3000~10000	-40.54	-13	PASS
Band IV	1413	HSUPA_Sub1	10000~18000	-53.28	-13	PASS
Band IV	1413	HSUPA_Sub2	10000~18000	-53.33	-13	PASS
Band IV	1413	HSUPA_Sub3	10000~18000	-53.56	-13	PASS
Band IV	1413	HSUPA_Sub4	10000~18000	-53.50	-13	PASS

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Band IV	1413	HSUPA_Sub5	10000~18000	-53.42	-13	PASS
Band IV	1513	HSUPA_Sub1	0.009~0.15	-75.16	-33	PASS
Band IV	1513	HSUPA_Sub2	0.009~0.15	-71.28	-33	PASS
Band IV	1513	HSUPA_Sub3	0.009~0.15	-69.35	-33	PASS
Band IV	1513	HSUPA_Sub4	0.009~0.15	-76.33	-33	PASS
Band IV	1513	HSUPA_Sub5	0.009~0.15	-68.51	-33	PASS
Band IV	1513	HSUPA_Sub1	0.15~30	-52.64	-13	PASS
Band IV	1513	HSUPA_Sub2	0.15~30	-43.80	-13	PASS
Band IV	1513	HSUPA_Sub3	0.15~30	-44.04	-13	PASS
Band IV	1513	HSUPA_Sub4	0.15~30	-45.53	-13	PASS
Band IV	1513	HSUPA_Sub5	0.15~30	-48.57	-13	PASS
Band IV	1513	HSUPA_Sub1	30~1000	-39.77	-13	PASS
Band IV	1513	HSUPA_Sub2	30~1000	-38.85	-13	PASS
Band IV	1513	HSUPA_Sub3	30~1000	-40.16	-13	PASS
Band IV	1513	HSUPA_Sub4	30~1000	-39.29	-13	PASS
Band IV	1513	HSUPA_Sub5	30~1000	-38.99	-13	PASS
Band IV	1513	HSUPA_Sub1	1000~3000	-45.72	-13	PASS
Band IV	1513	HSUPA_Sub2	1000~3000	-45.91	-13	PASS
Band IV	1513	HSUPA_Sub3	1000~3000	-45.67	-13	PASS
Band IV	1513	HSUPA_Sub4	1000~3000	-45.98	-13	PASS
Band IV	1513	HSUPA_Sub5	1000~3000	-45.90	-13	PASS
Band IV	1513	HSUPA_Sub1	3000~10000	-39.45	-13	PASS
Band IV	1513	HSUPA_Sub2	3000~10000	-40.84	-13	PASS
Band IV	1513	HSUPA_Sub3	3000~10000	-40.43	-13	PASS
Band IV	1513	HSUPA_Sub4	3000~10000	-39.83	-13	PASS
Band IV	1513	HSUPA_Sub5	3000~10000	-39.39	-13	PASS
Band IV	1513	HSUPA_Sub1	10000~18000	-53.55	-13	PASS
Band IV	1513	HSUPA_Sub2	10000~18000	-53.41	-13	PASS
Band IV	1513	HSUPA_Sub3	10000~18000	-53.49	-13	PASS
Band IV	1513	HSUPA_Sub4	10000~18000	-53.49	-13	PASS
Band IV	1513	HSUPA_Sub5	10000~18000	-53.30	-13	PASS

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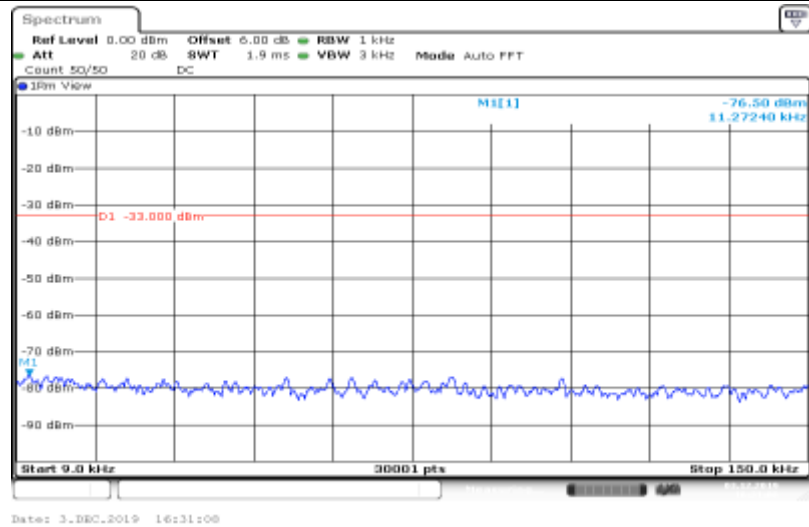
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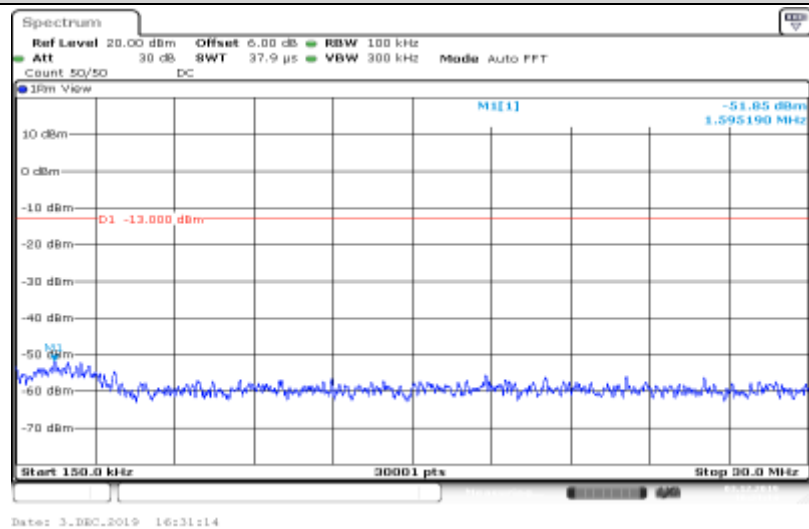
Test Graphs

WCDMA:

Band IV-1312-0.009~0.15



Band IV-1312-0.15~30



Band IV-1312-30~1000

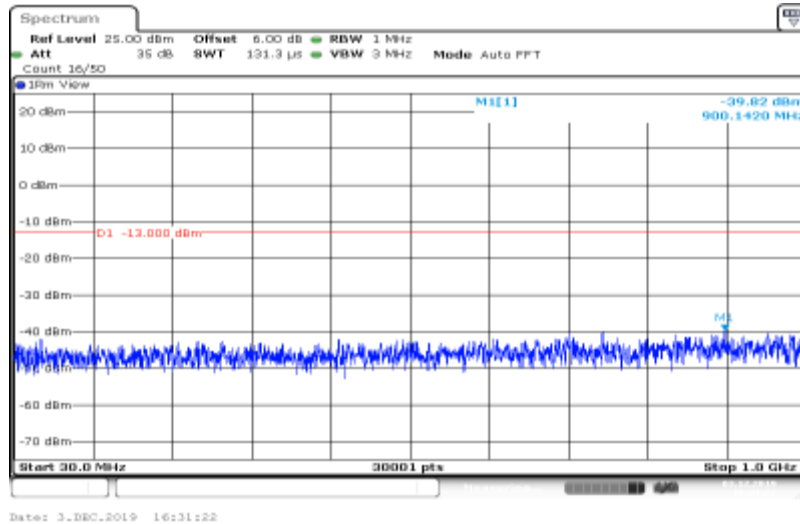
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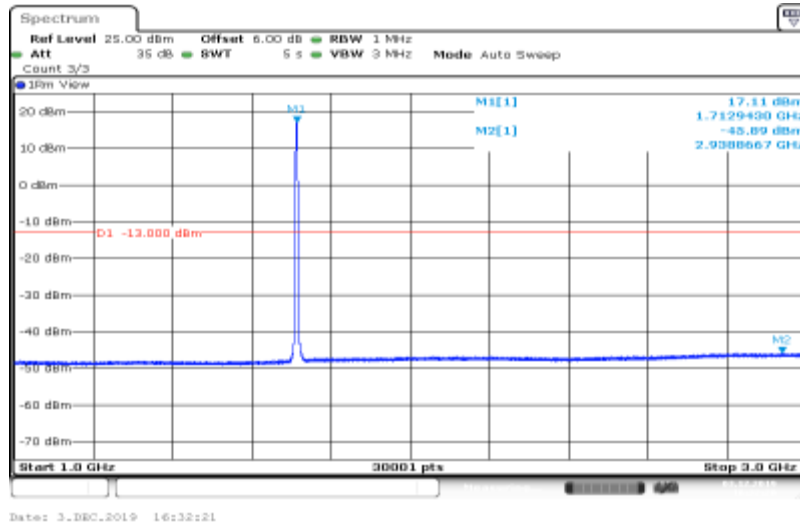
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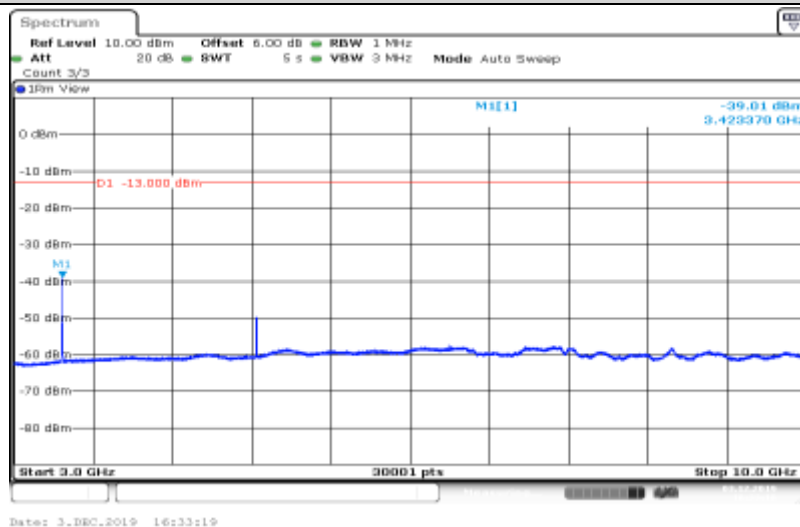
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Band IV-1312-1000~3000



Band IV-1312-3000~10000



Band IV-1312-10000~18000

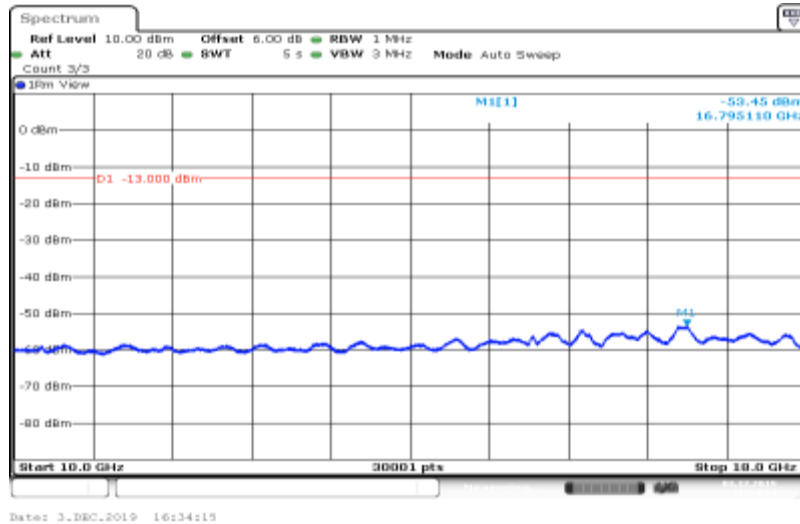
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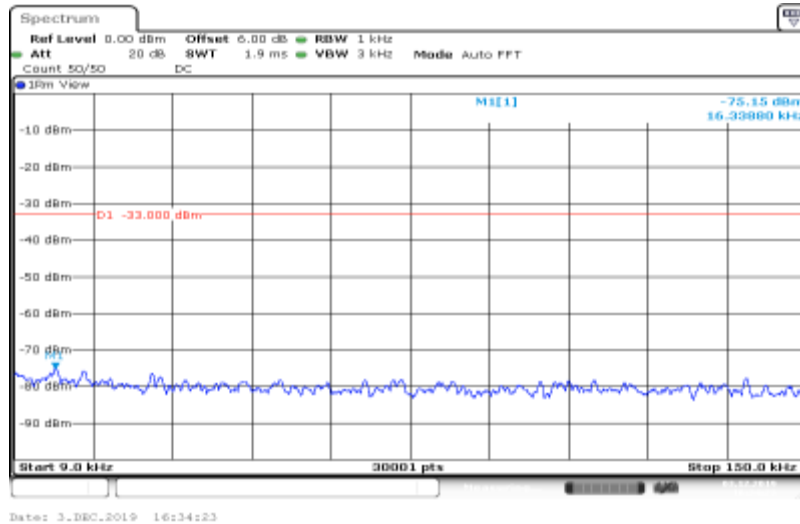
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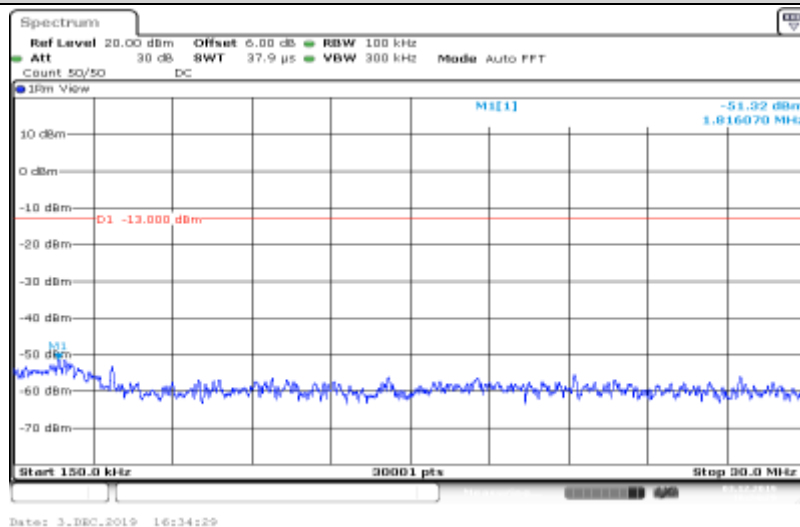
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Band IV-1413-0.009~0.15



Band IV-1413-0.15~30



Band IV-1413-30~1000

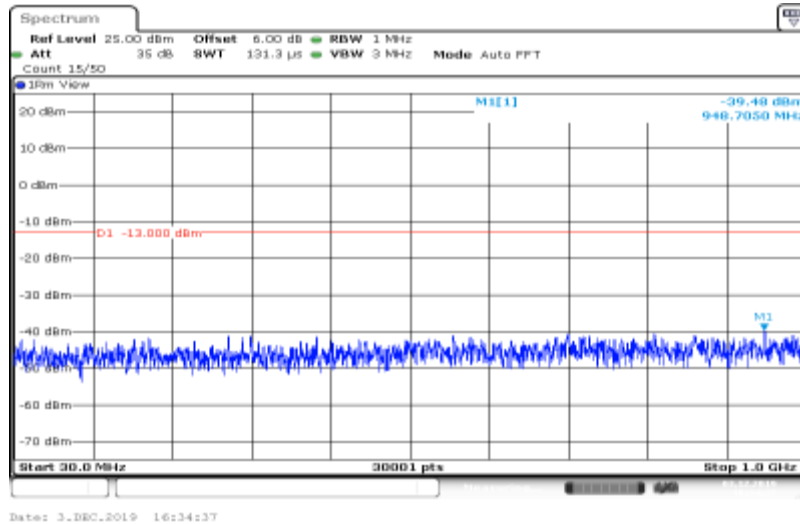
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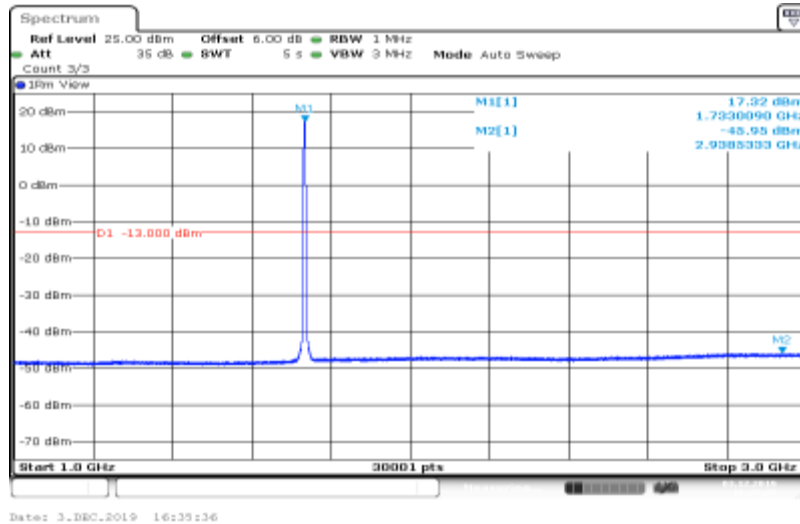
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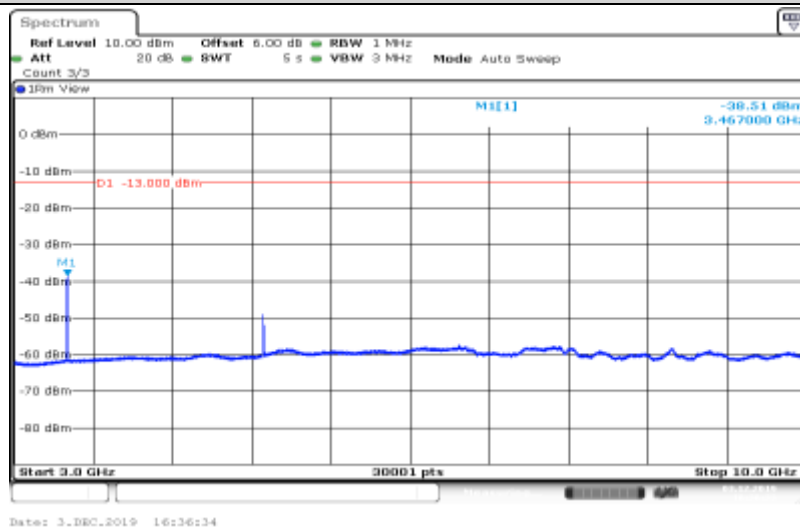
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Band IV-1413-1000~3000



Band IV-1413-3000~10000



Band IV-1413-10000~18000

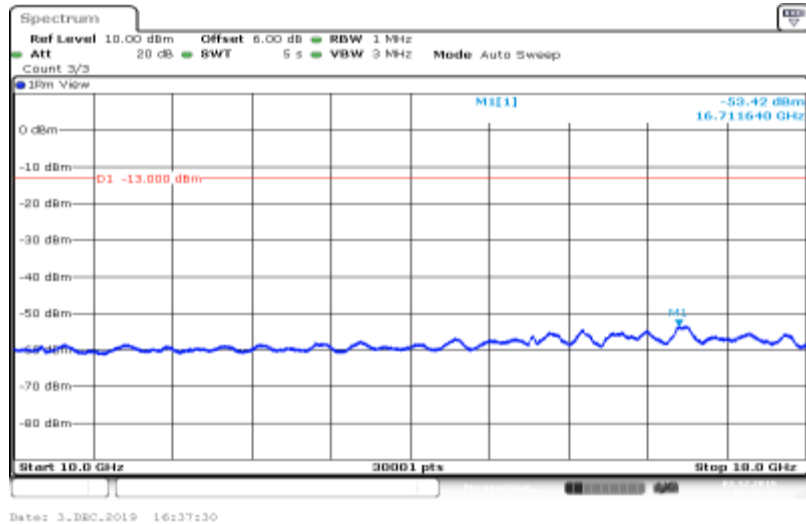
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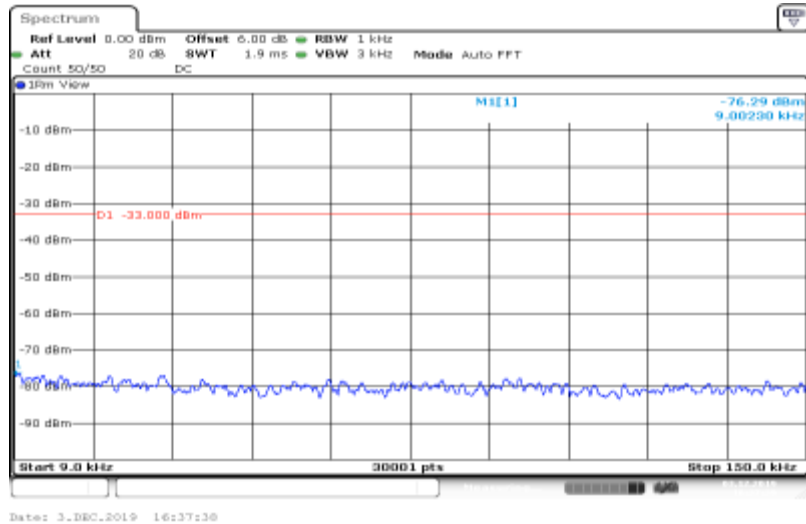
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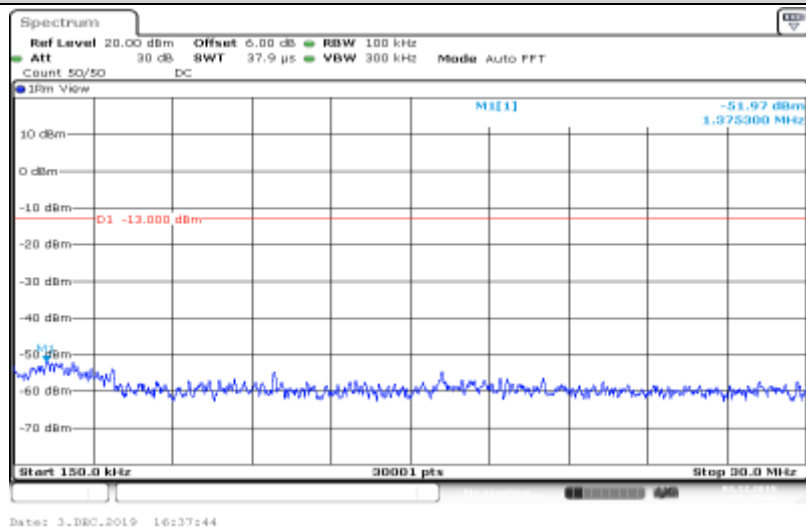
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Band IV-1513-0.009~0.15



Band IV-1513-0.15~30



Band IV-1513-30~1000

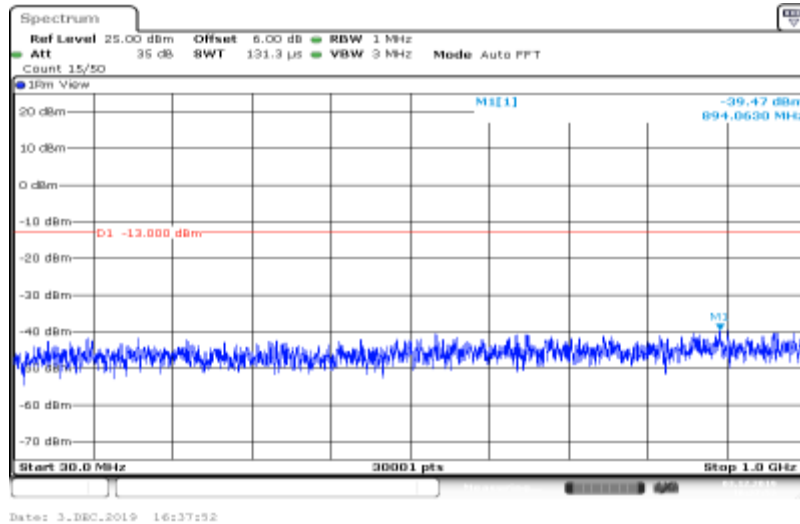
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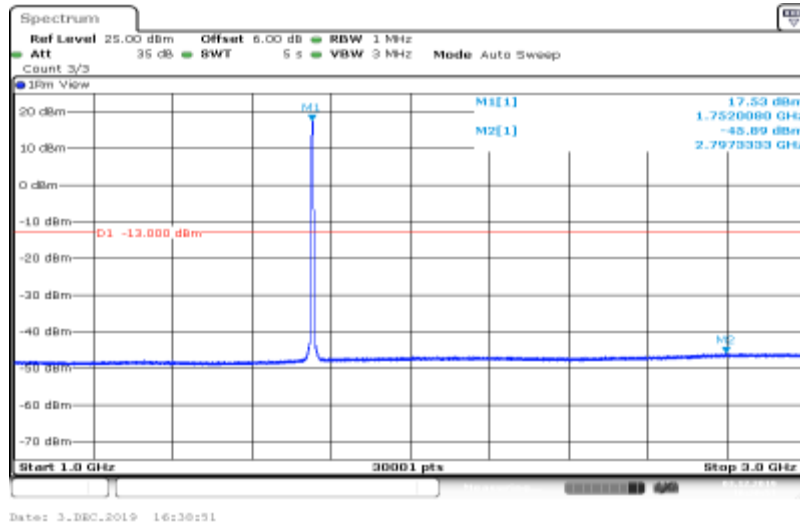
Tel.: (86)755-27521059

Fax: (86)755-27521011

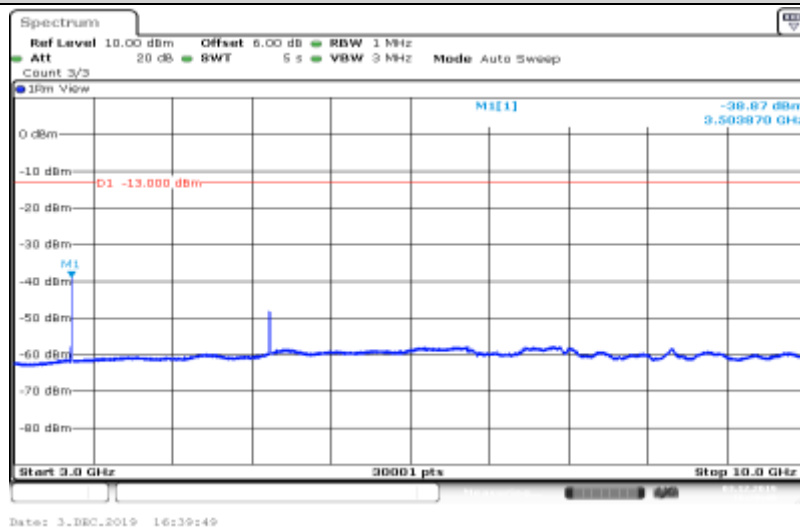
Http://www.sz-ctc.org.cn



Band IV-1513-1000~3000



Band IV-1513-3000~10000



Band IV-1513-10000~18000

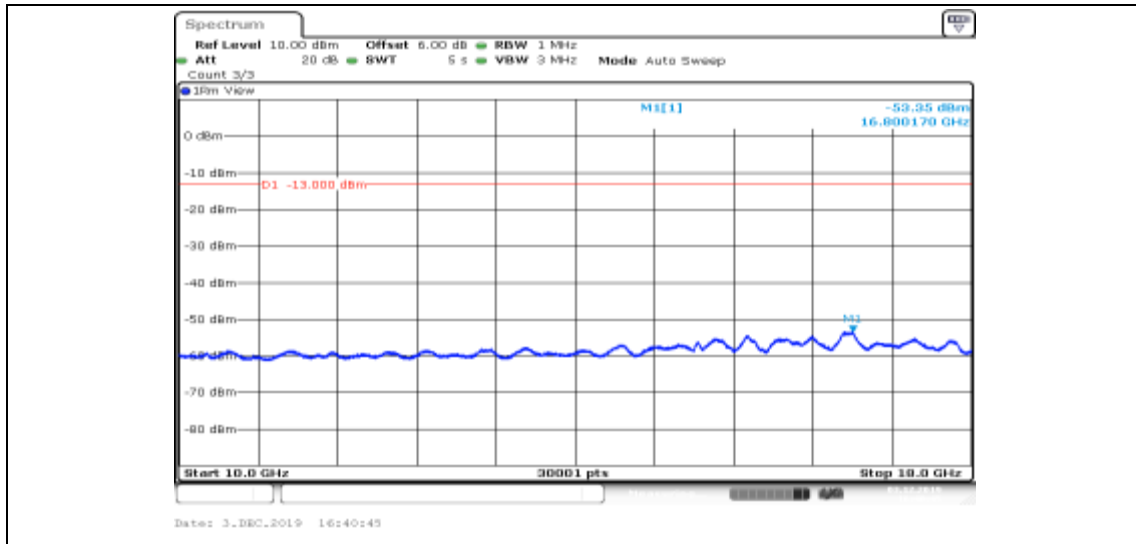
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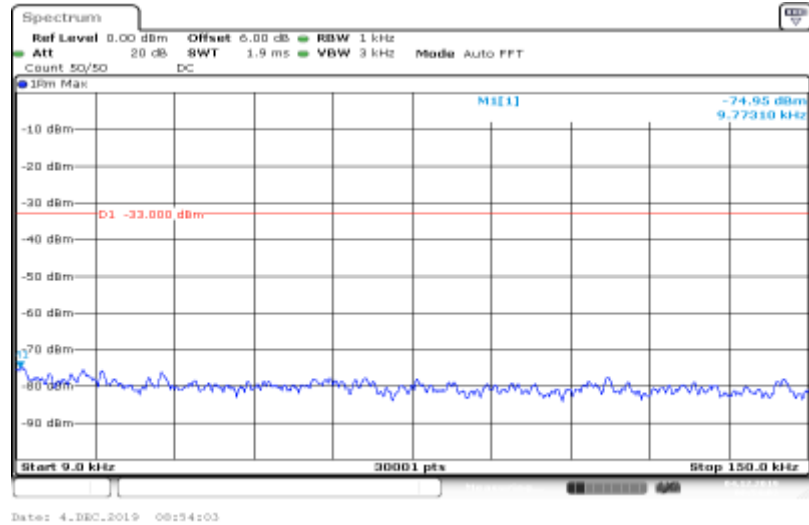
Tel.: (86)755-27521059

Fax: (86)755-27521011

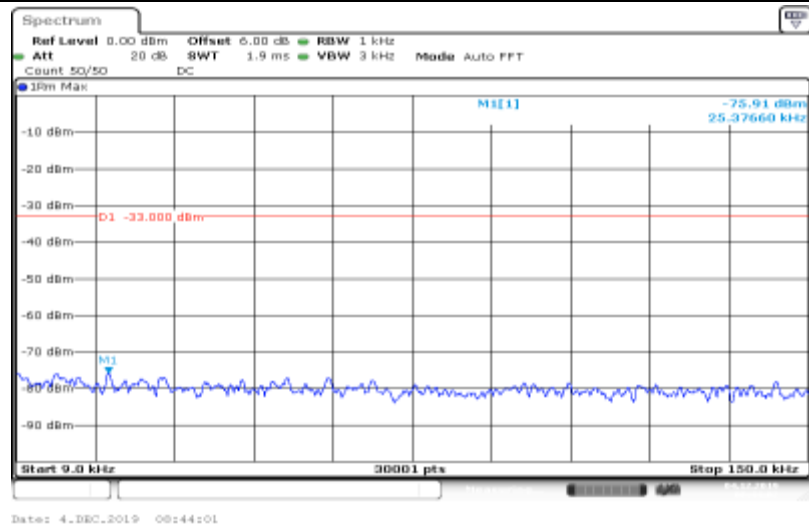
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HSDPA:

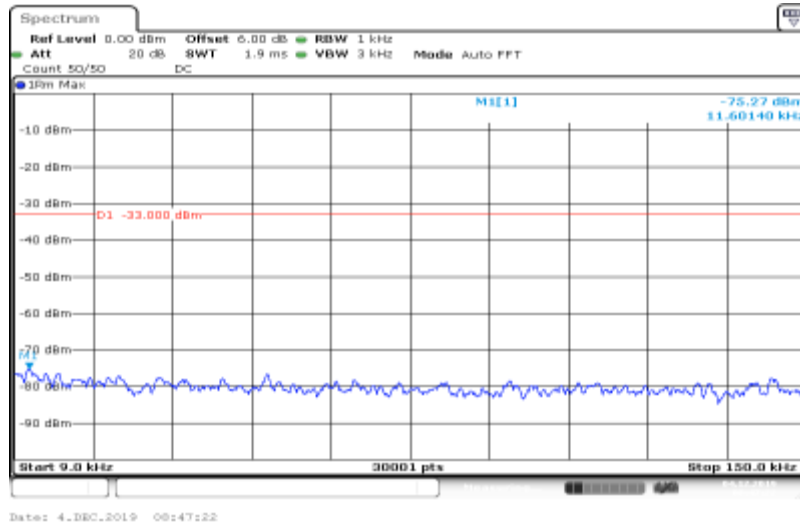
Band IV-1312-HSDPA_Sub1-0.009~0.15



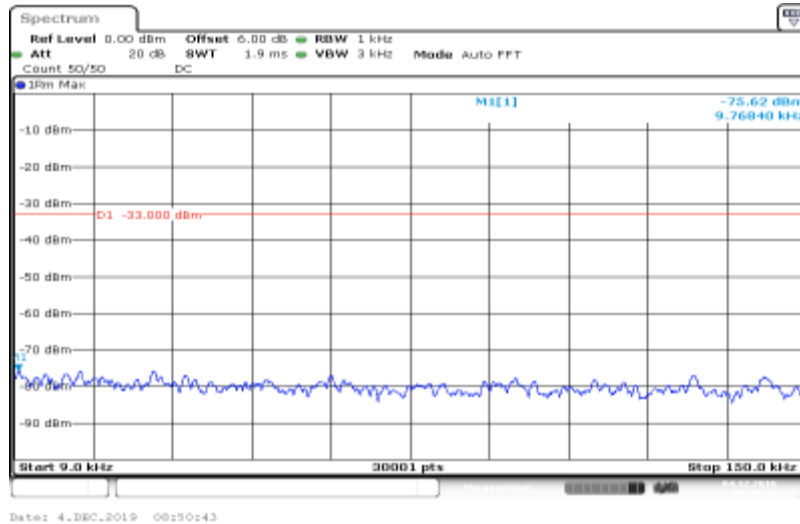
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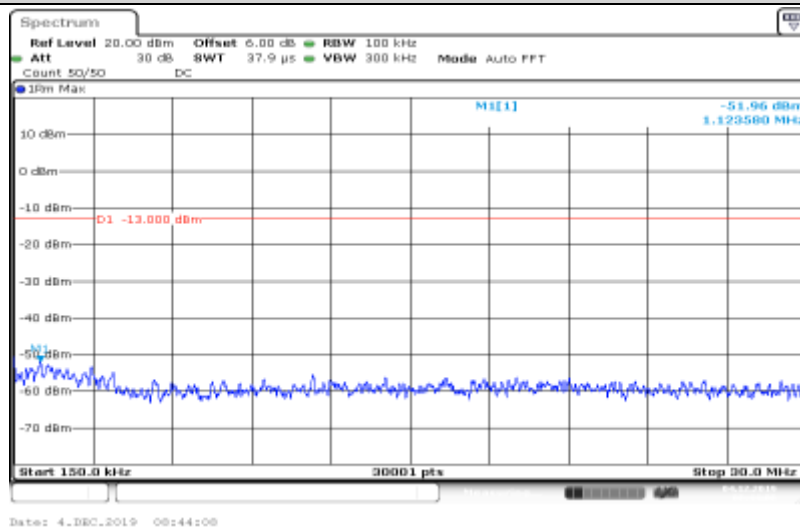
Band IV-1312-HSDPA_Sub3-0.009~0.15



Band IV-1312-HSDPA_Sub4-0.009~0.15



Band IV-1312-HSDPA_Sub1-0.15~30



Band IV-1312-HSDPA_Sub2-0.15~30

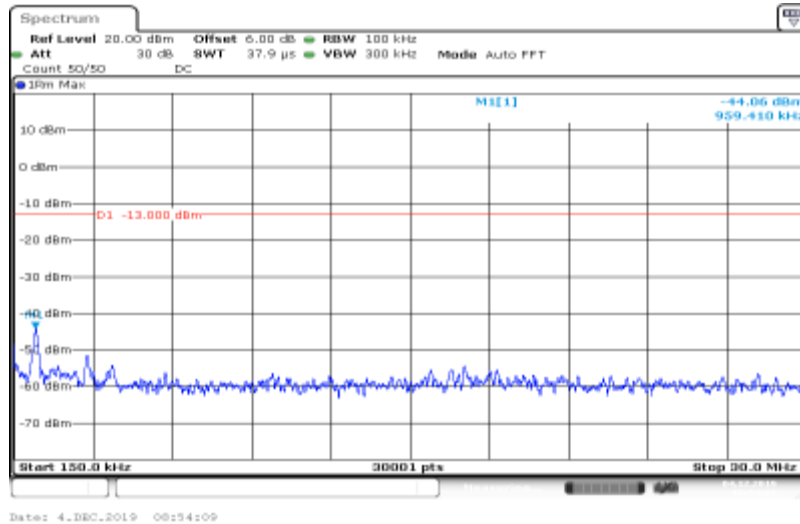
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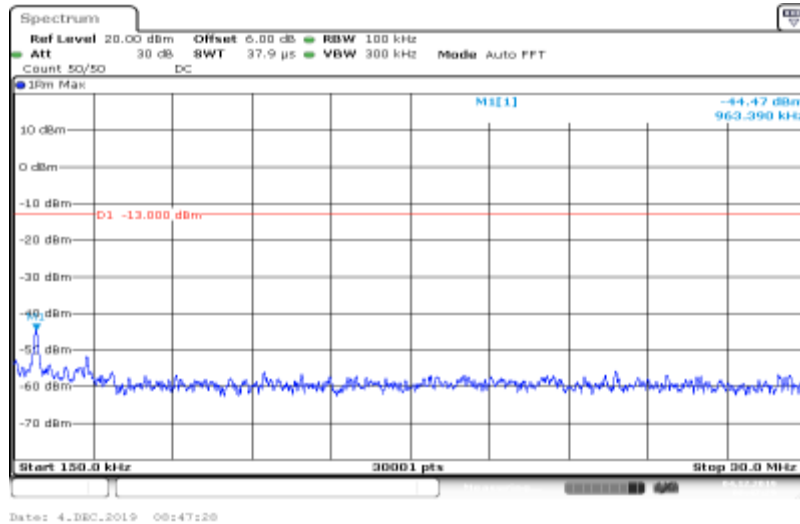
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Fax: (86)755-27521011

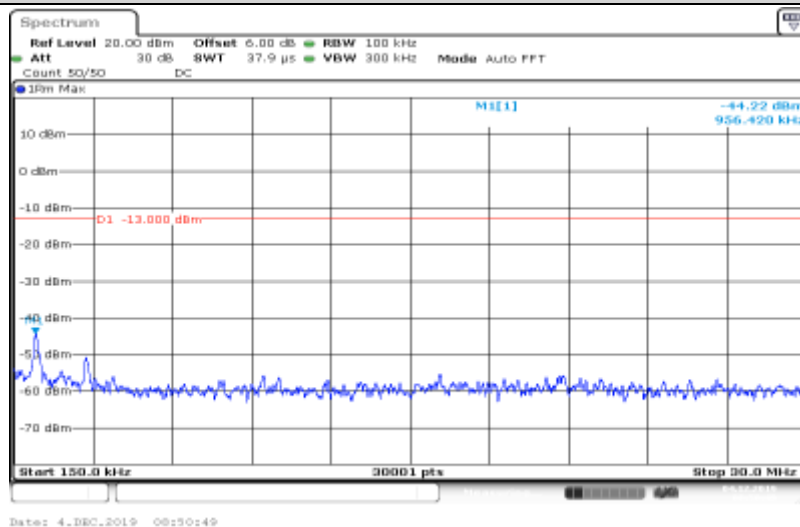
Http://www.sz-ctc.org.cn



Band IV-1312-HSDPA_Sub3-0.15~30



Band IV-1312-HSDPA_Sub4-0.15~30



Band IV-1312-HSDPA_Sub1-30~1000

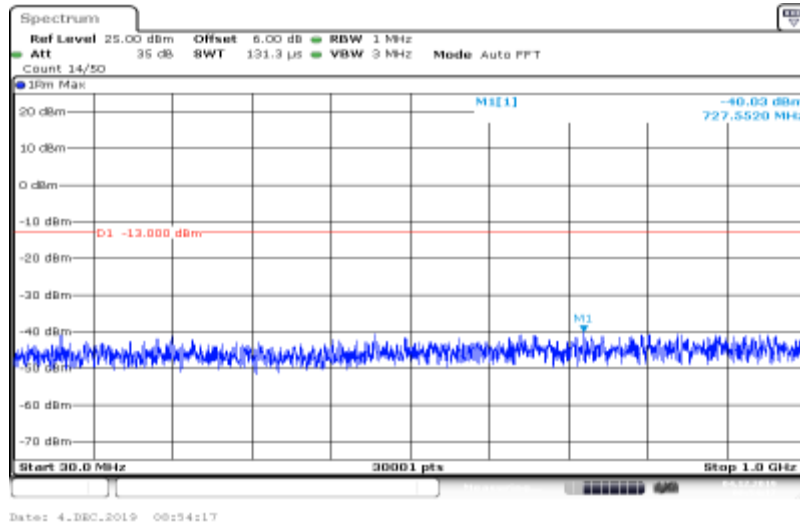
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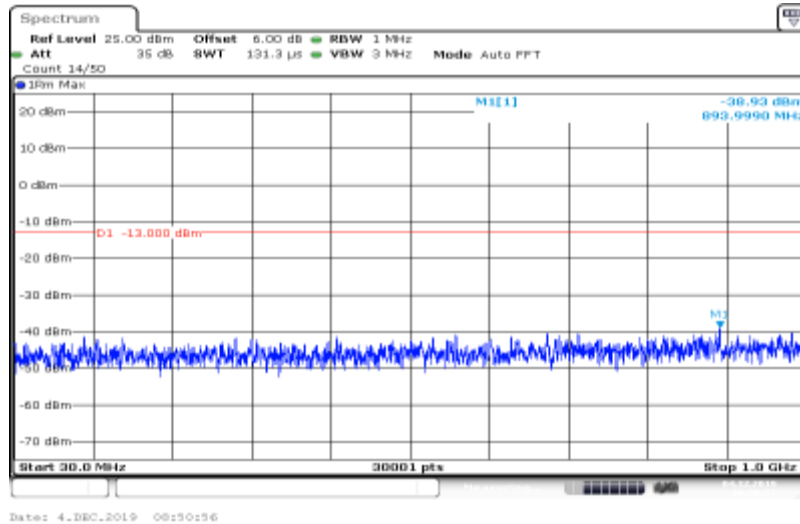
Tel.: (86)755-27521059

Fax: (86)755-27521011

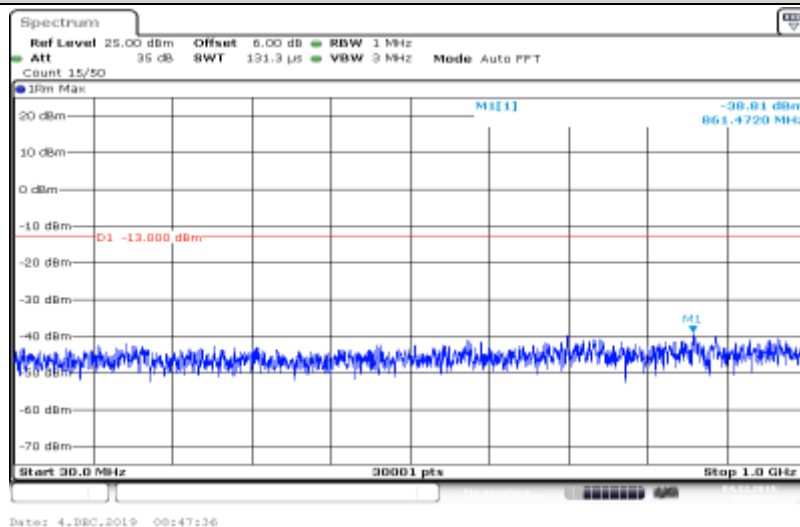
Http://www.sz-ctc.org.cn



Band IV-1312-HSDPA_Sub2-30~1000



Band IV-1312-HSDPA_Sub3-30~1000



Band IV-1312-HSDPA_Sub4-30~1000

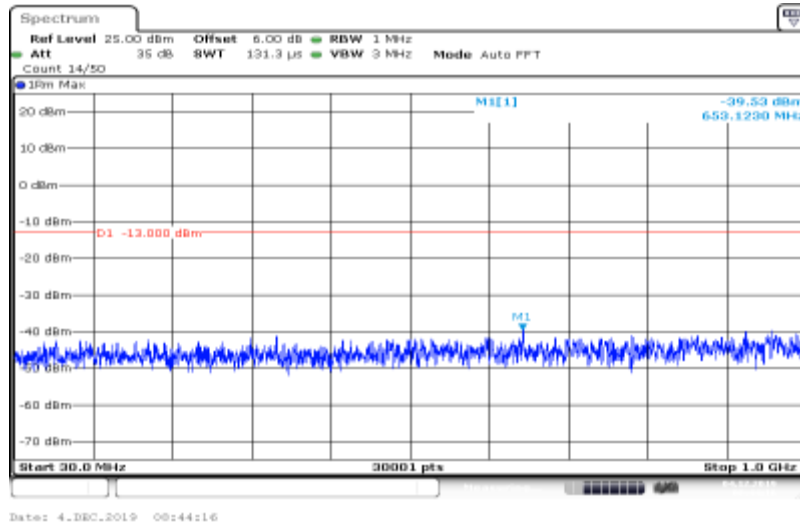
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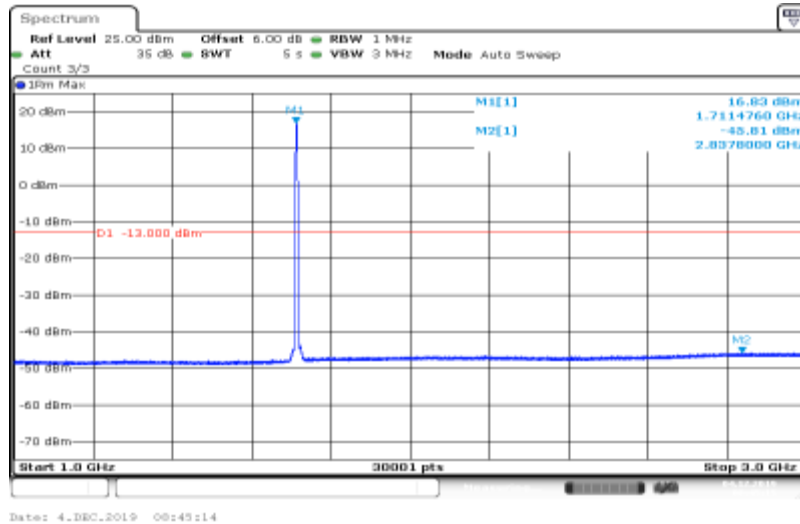
Tel.: (86)755-27521059

Fax: (86)755-27521011

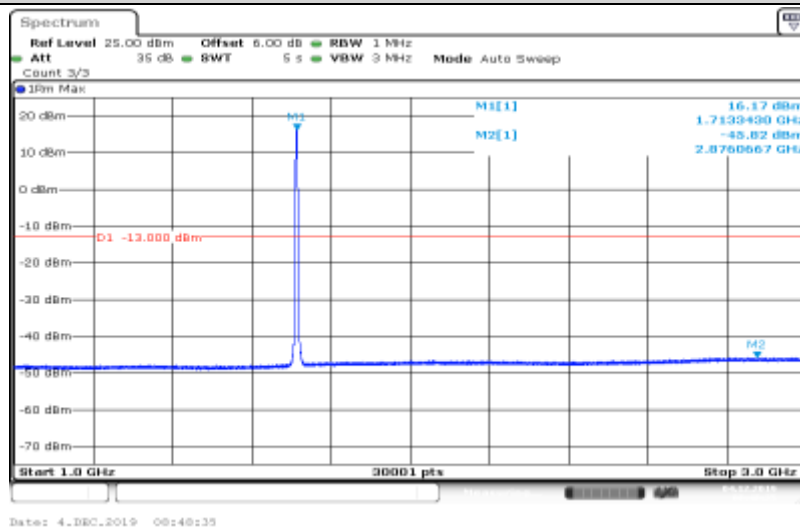
Http://www.sz-ctc.org.cn



Band IV-1312-HSDPA_Sub1-1000~3000



Band IV-1312-HSDPA_Sub2-1000~3000



Band IV-1312-HSDPA_Sub3-1000~3000

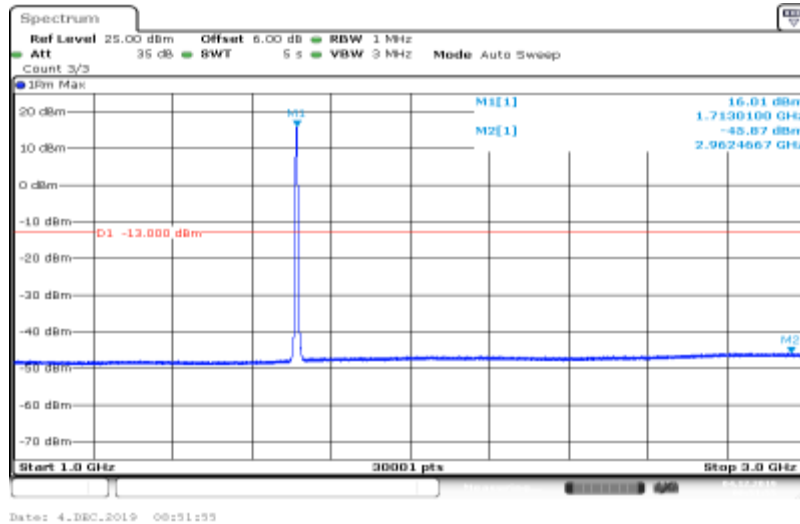
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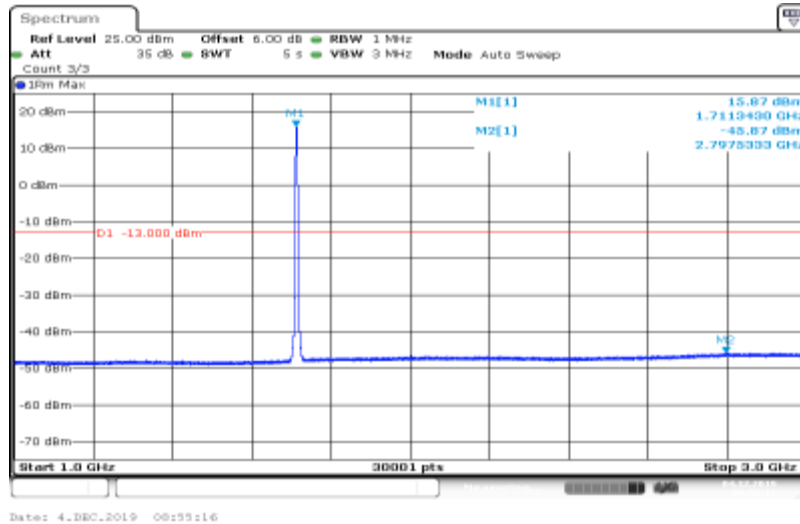
Tel.: (86)755-27521059

Fax: (86)755-27521011

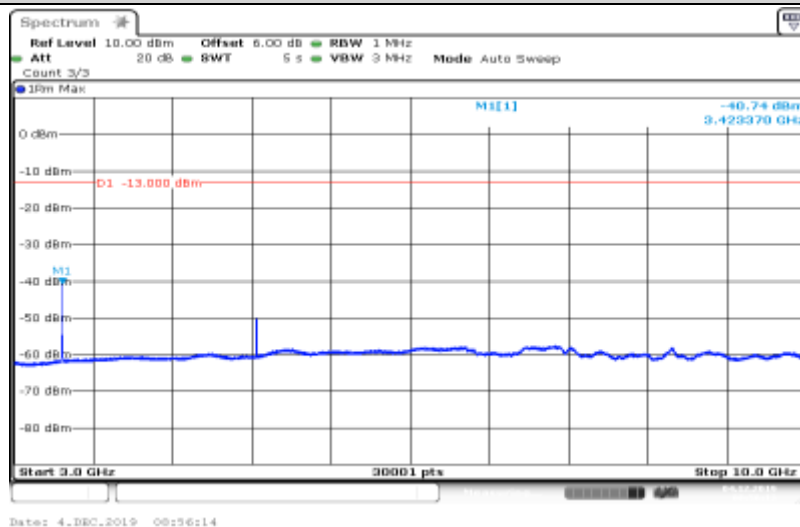
Http://www.sz-ctc.org.cn



Band IV-1312-HSDPA_Sub4-1000~3000



Band IV-1312-HSDPA_Sub1-3000~10000



Band IV-1312-HSDPA_Sub2-3000~10000

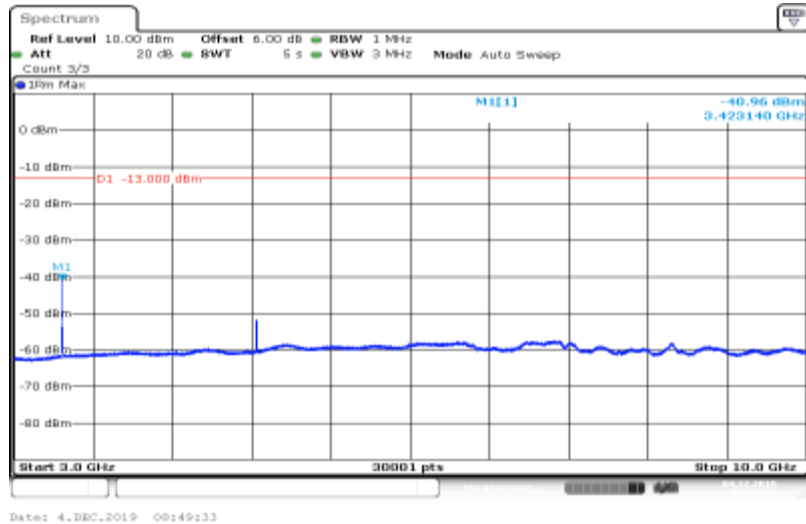
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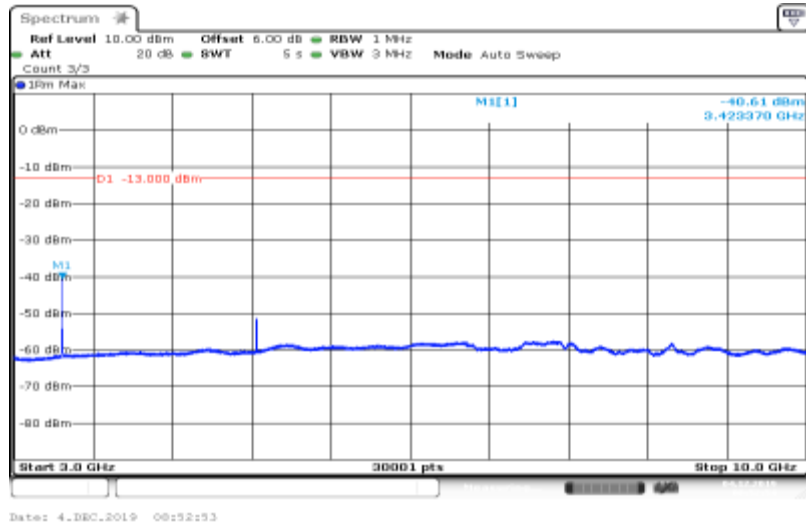
Tel.: (86)755-27521059

Fax: (86)755-27521011

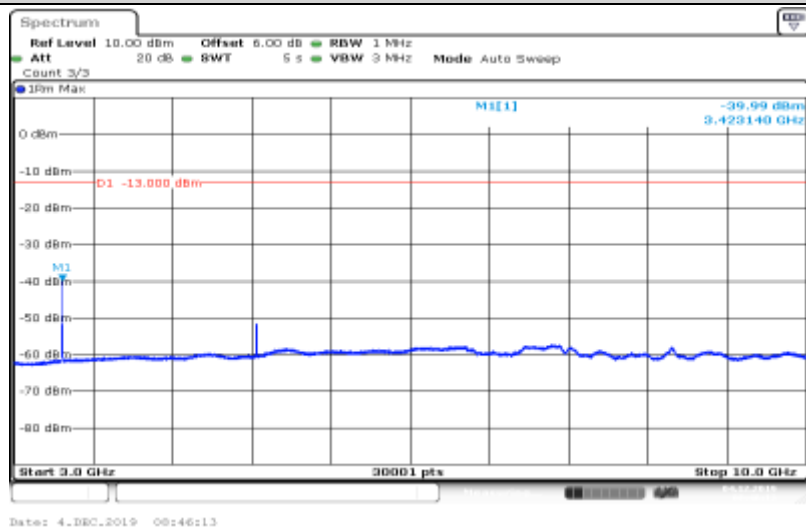
Http://www.sz-ctc.org.cn



Band IV-1312-HSDPA_Sub3-3000~10000



Band IV-1312-HSDPA_Sub4-3000~10000



Band IV-1312-HSDPA_Sub1-10000~18000

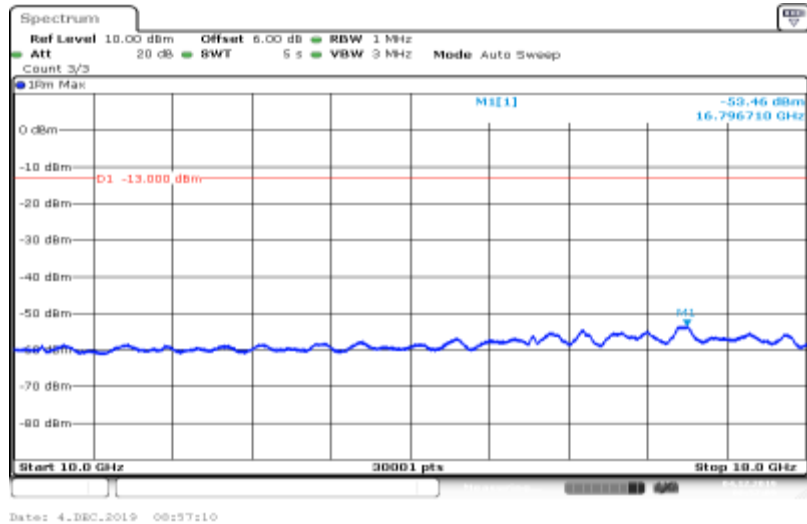
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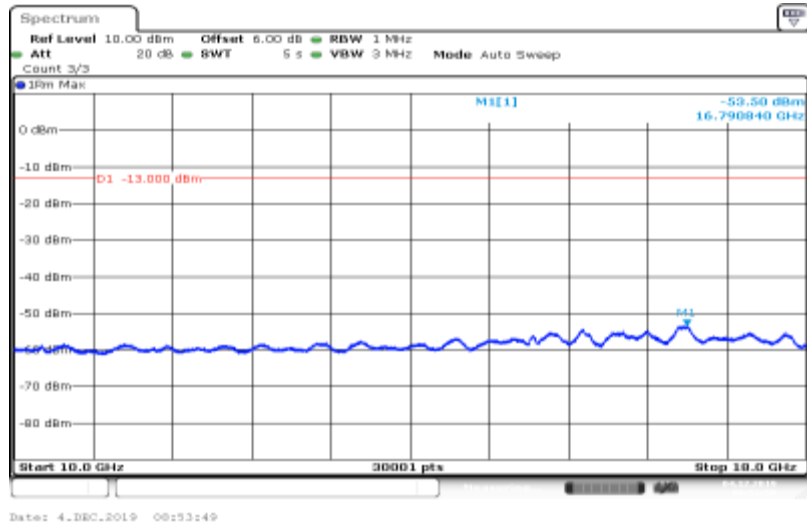
Tel.: (86)755-27521059

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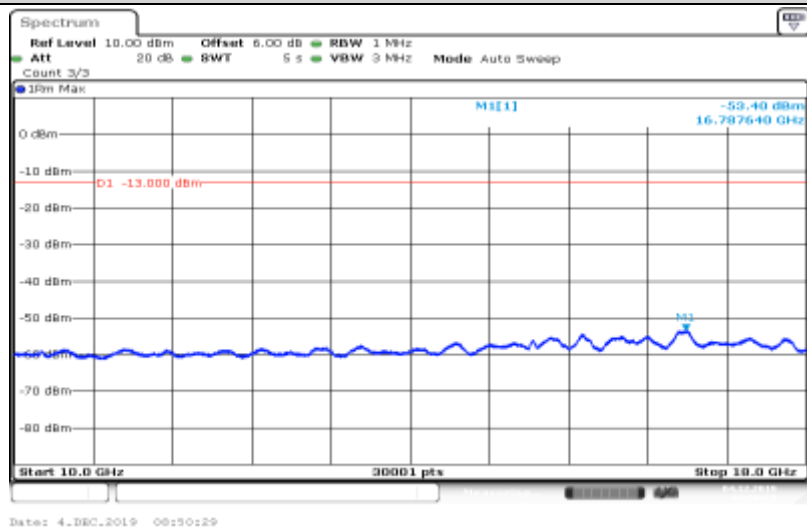
Http://www.sz-ctc.org.cn



Band IV-1312-HSDPA_Sub2-10000~18000



Band IV-1312-HSDPA_Sub3-10000~18000



Band IV-1312-HSDPA_Sub4-10000~18000

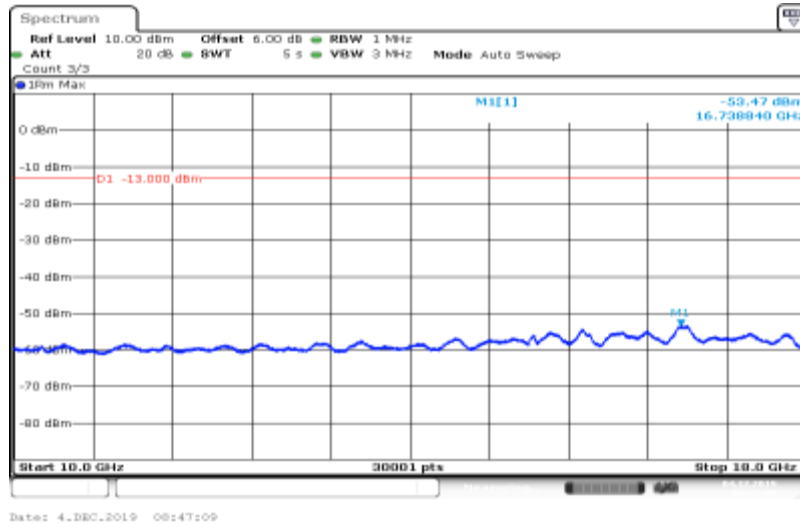
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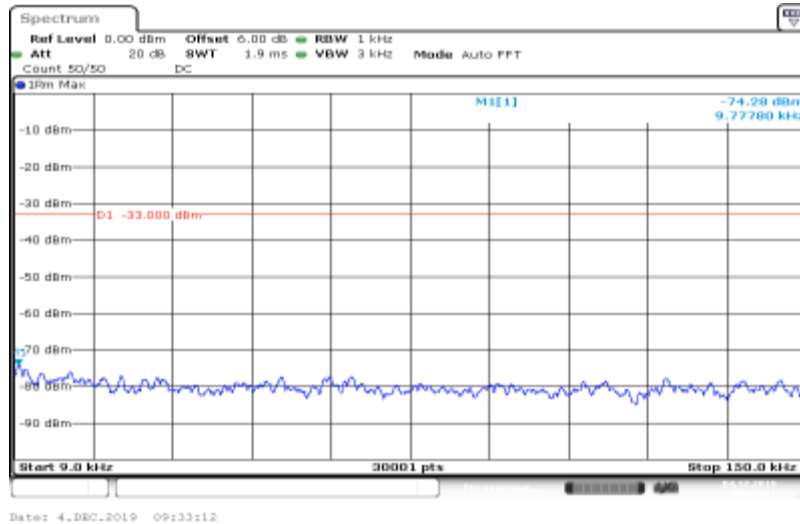
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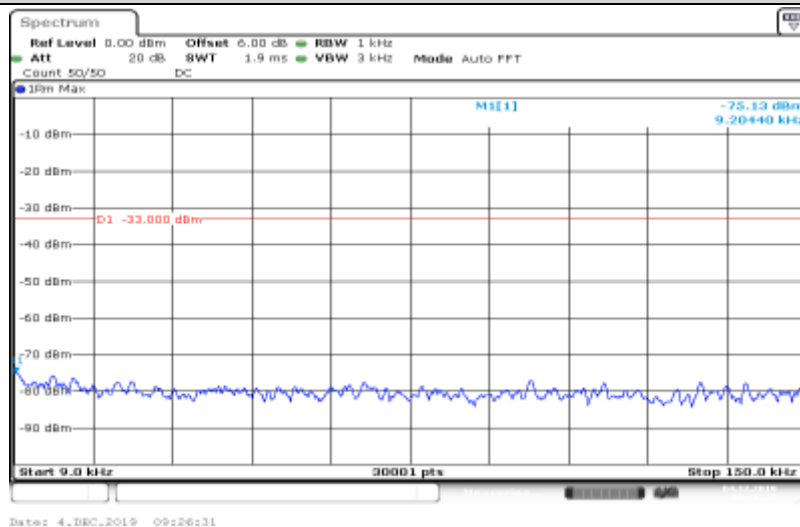
Http://www.sz-ctc.org.cn



Band IV-1413-HSDPA_Sub1-0.009~0.15



Band IV-1413-HSDPA_Sub2-0.009~0.15



Band IV-1413-HSDPA_Sub3-0.009~0.15

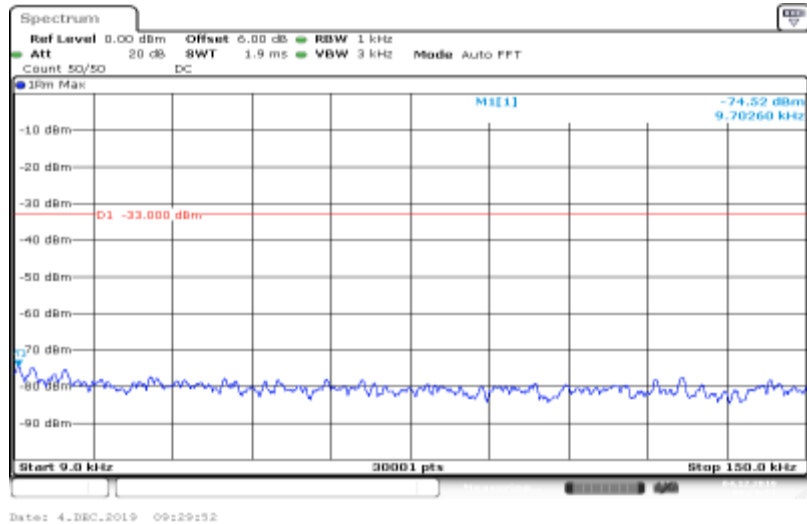
CTC Laboratories, Inc.

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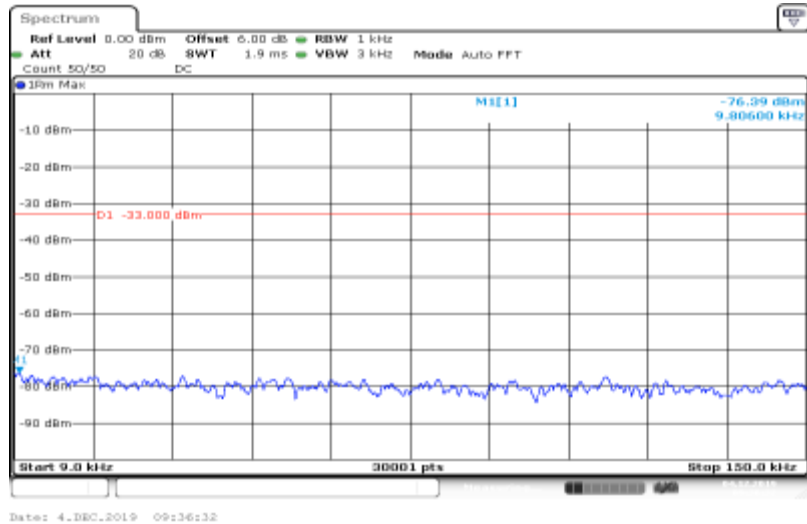
Tel.: (86)755-27521059

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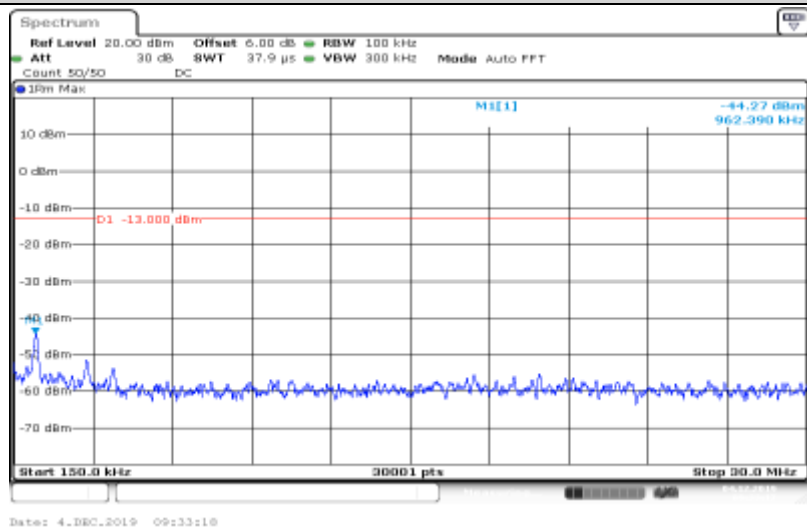
Http://www.sz-ctc.org.cn



Band IV-1413-HSDPA_Sub4-0.009~0.15



Band IV-1413-HSDPA_Sub1-0.15~30



Band IV-1413-HSDPA_Sub2-0.15~30

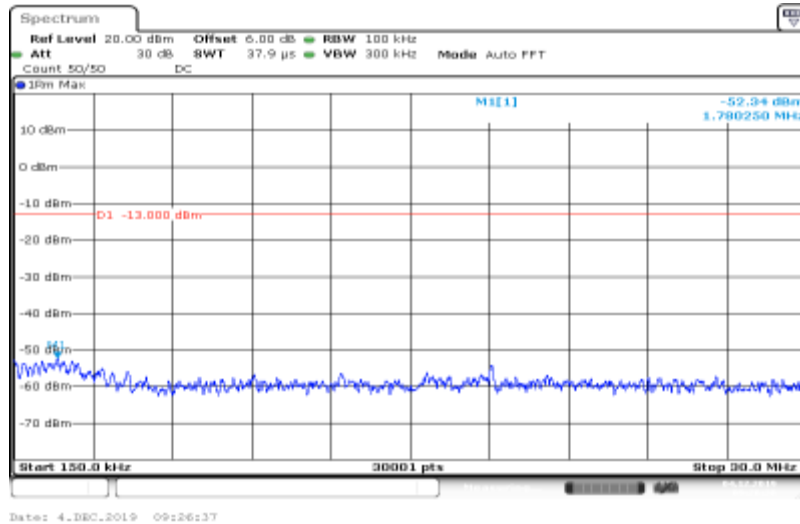
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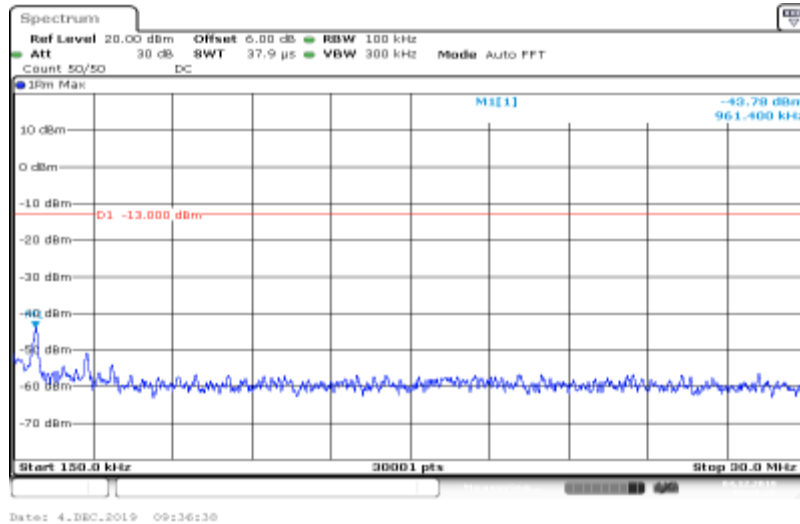
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Fax: (86)755-27521011

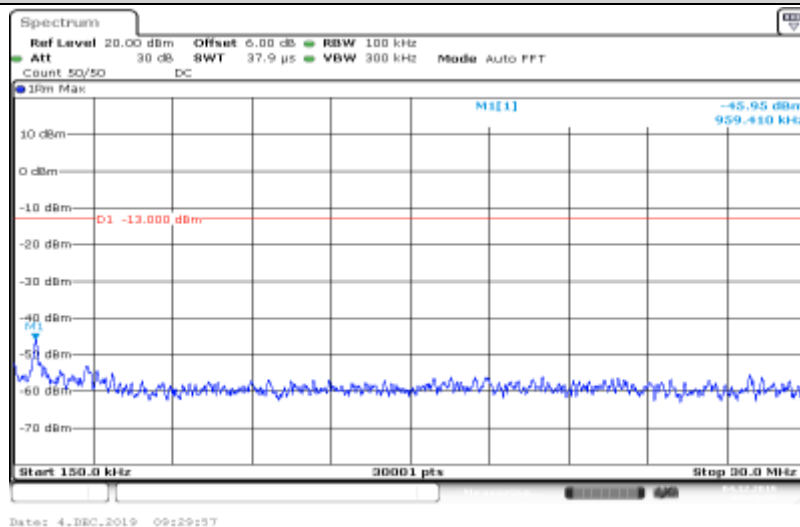
Http://www.sz-ctc.org.cn



Band IV-1413-HSDPA_Sub3-0.15~30



Band IV-1413-HSDPA_Sub4-0.15~30



Band IV-1413-HSDPA_Sub1-30~1000

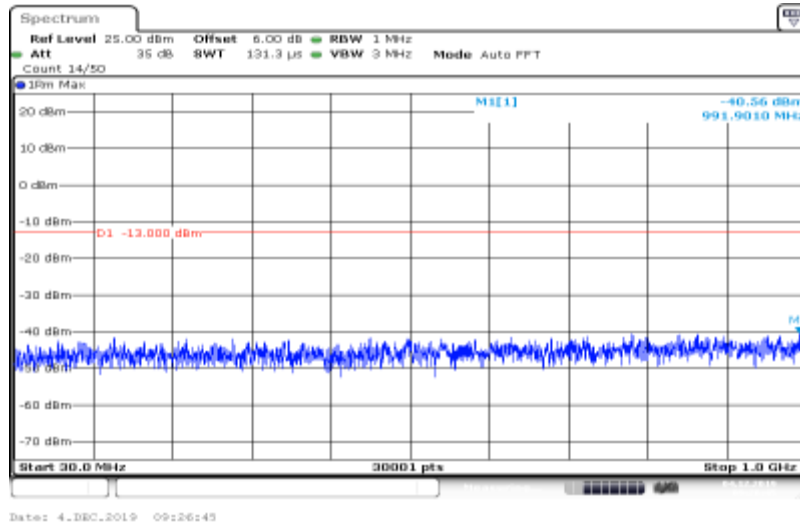
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2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

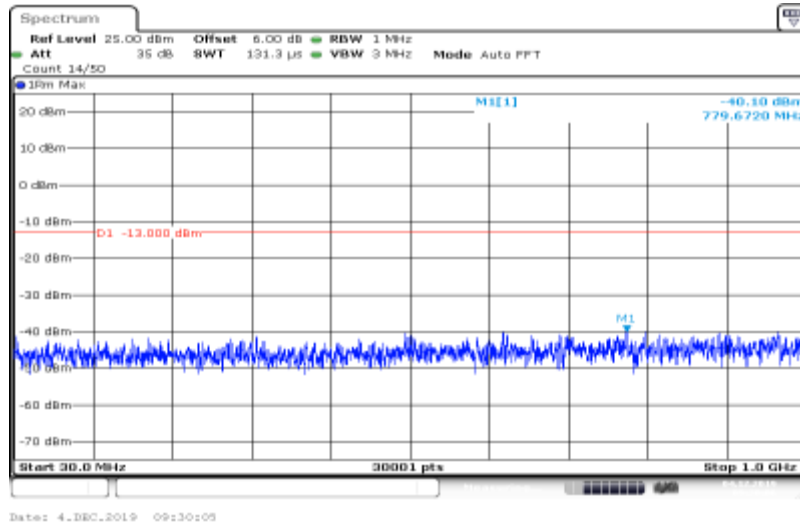
Tel.: (86)755-27521059

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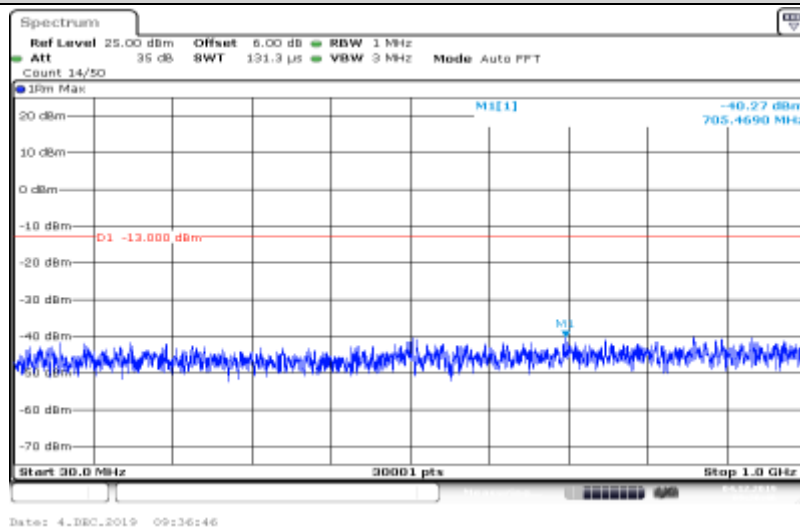
Http://www.sz-ctc.org.cn



Band IV-1413-HSDPA_Sub2-30~1000



Band IV-1413-HSDPA_Sub3-30~1000



Band IV-1413-HSDPA_Sub4-30~1000

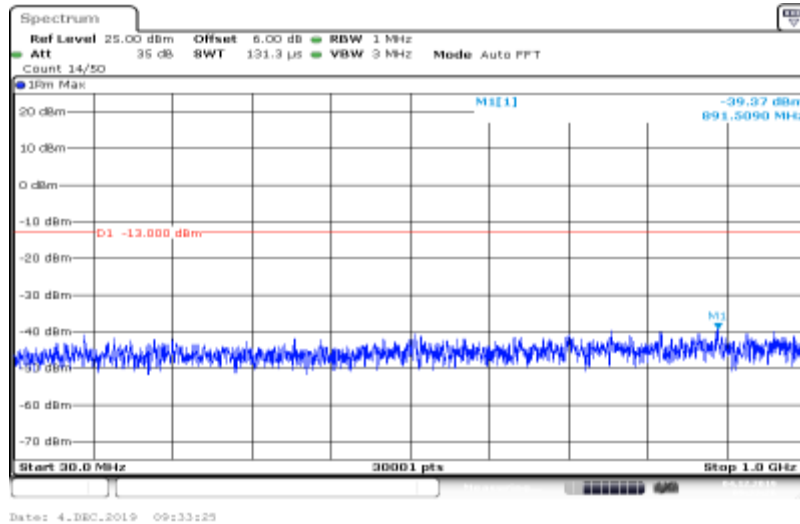
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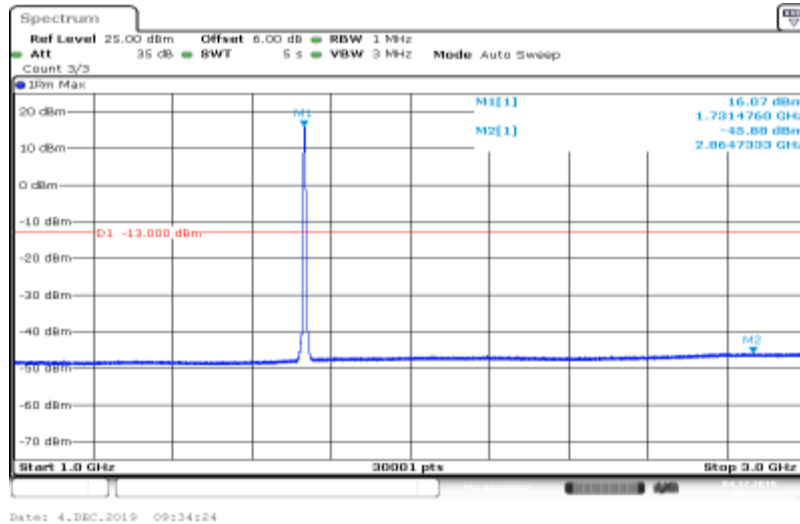
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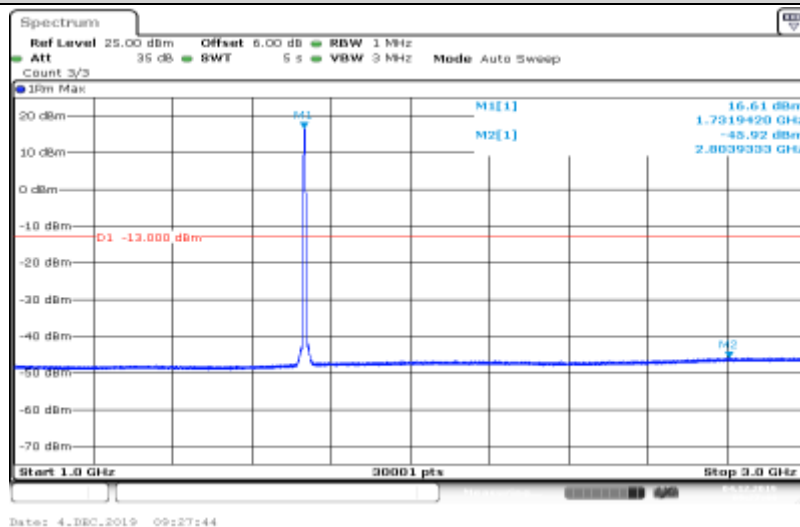
Http://www.sz-ctc.org.cn



Band IV-1413-HSDPA_Sub1-1000~3000



Band IV-1413-HSDPA_Sub2-1000~3000



Band IV-1413-HSDPA_Sub3-1000~3000

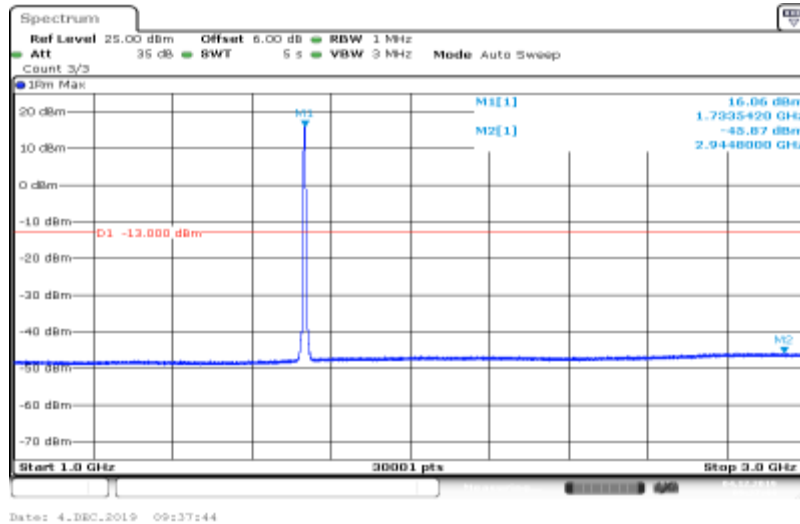
CTC Laboratories, Inc.

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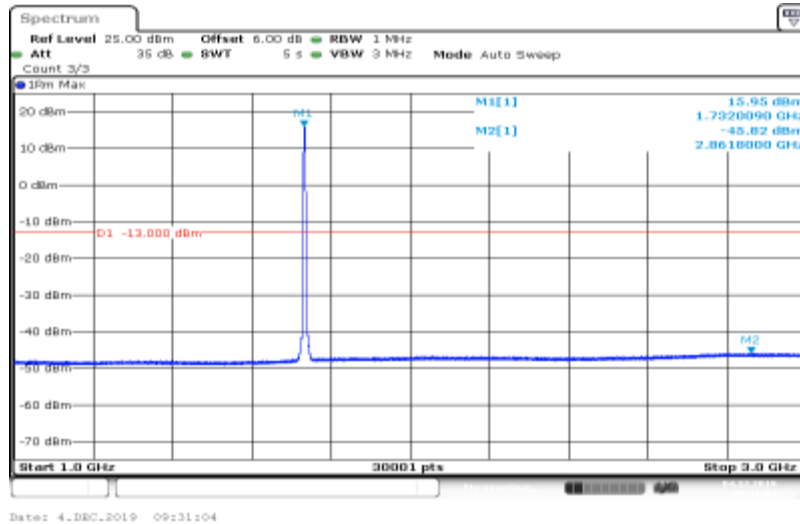
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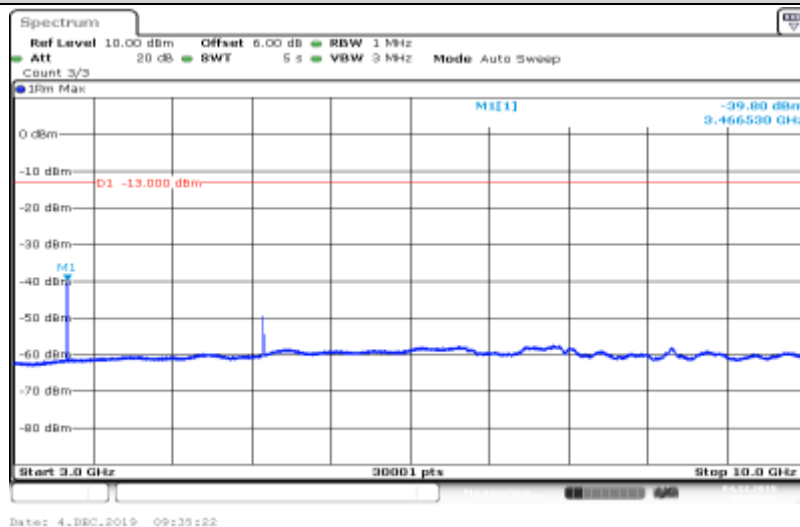
Http://www.sz-ctc.org.cn



Band IV-1413-HSDPA_Sub4-1000~3000



Band IV-1413-HSDPA_Sub1-3000~10000



Band IV-1413-HSDPA_Sub2-3000~10000

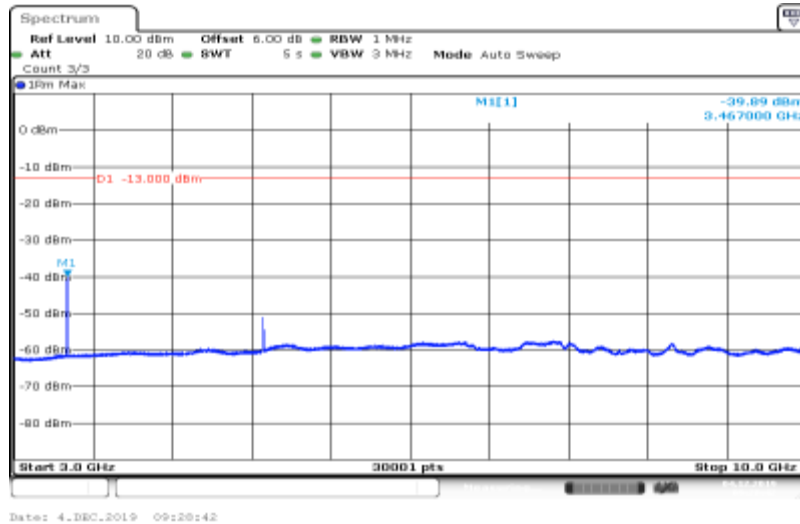
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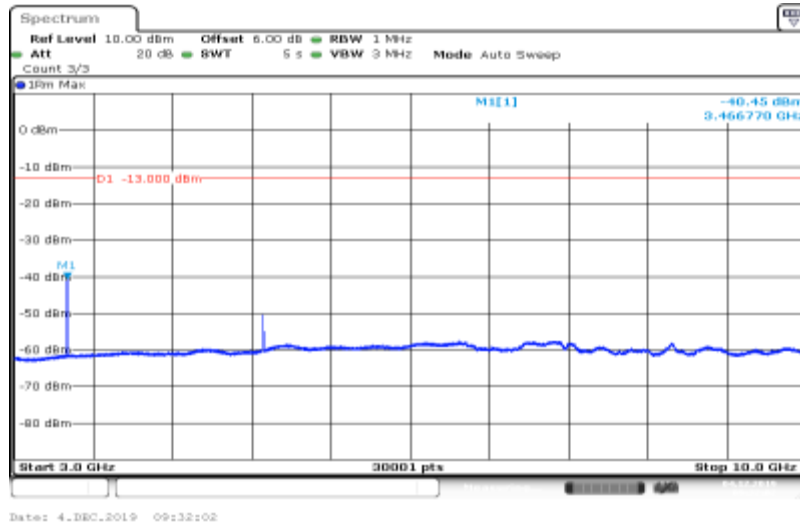
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Fax: (86)755-27521011

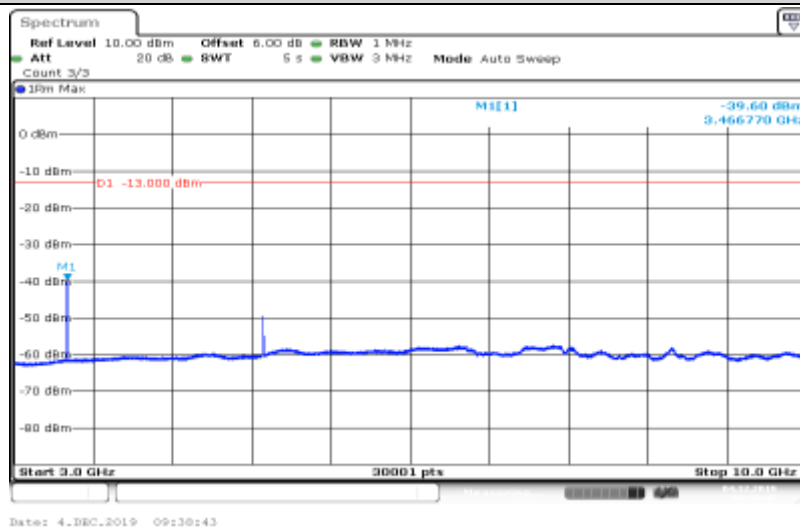
Http://www.sz-ctc.org.cn



Band IV-1413-HSDPA_Sub3-3000~10000



Band IV-1413-HSDPA_Sub4-3000~10000



Band IV-1413-HSDPA_Sub1-10000~18000

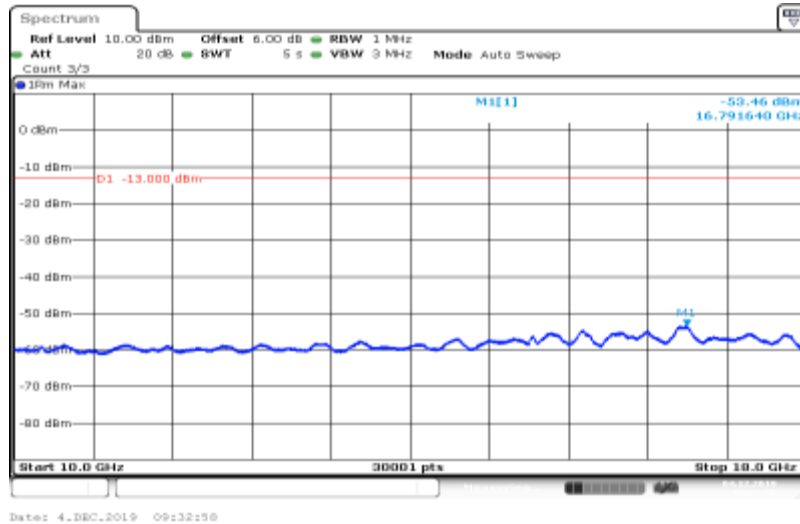
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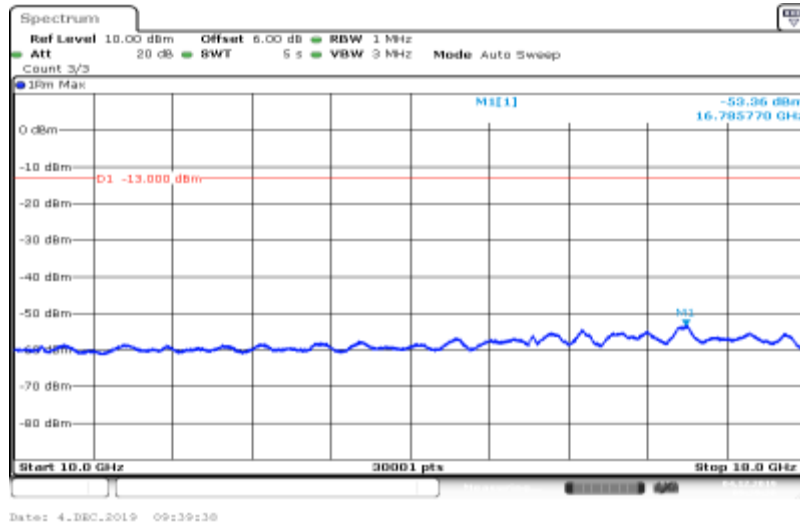
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Fax: (86)755-27521011

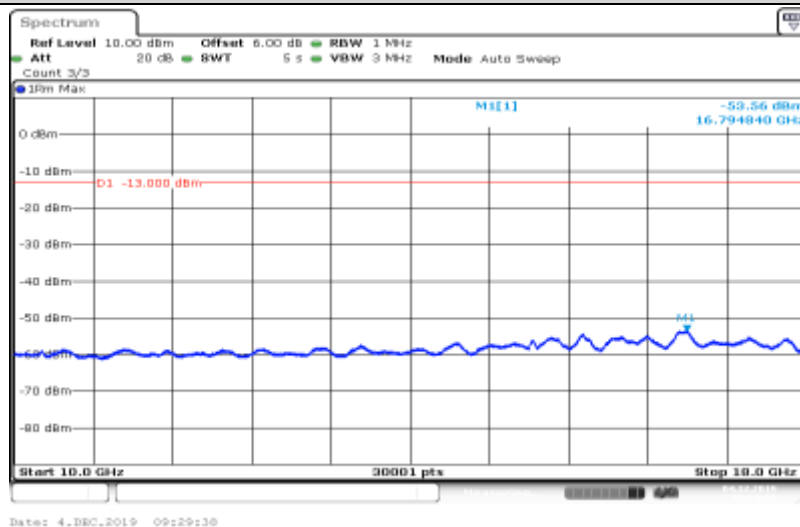
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Band IV-1413-HSDPA_Sub2-10000~18000



Band IV-1413-HSDPA_Sub3-10000~18000



Band IV-1413-HSDPA_Sub4-10000~18000

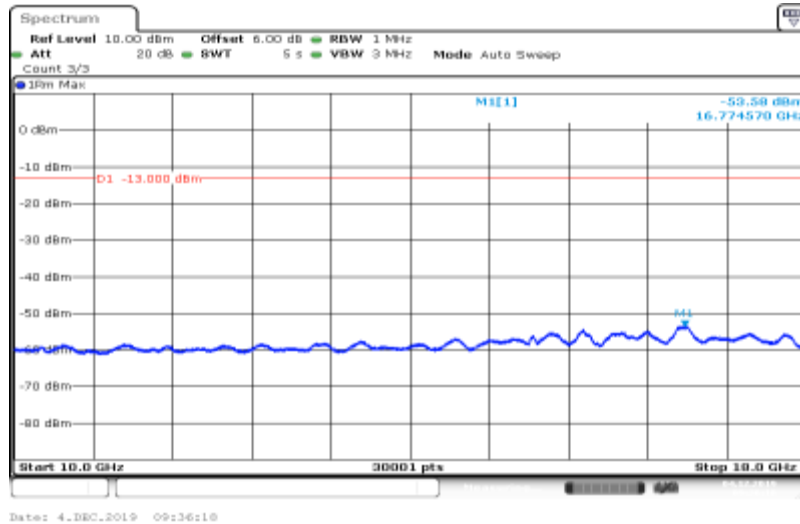
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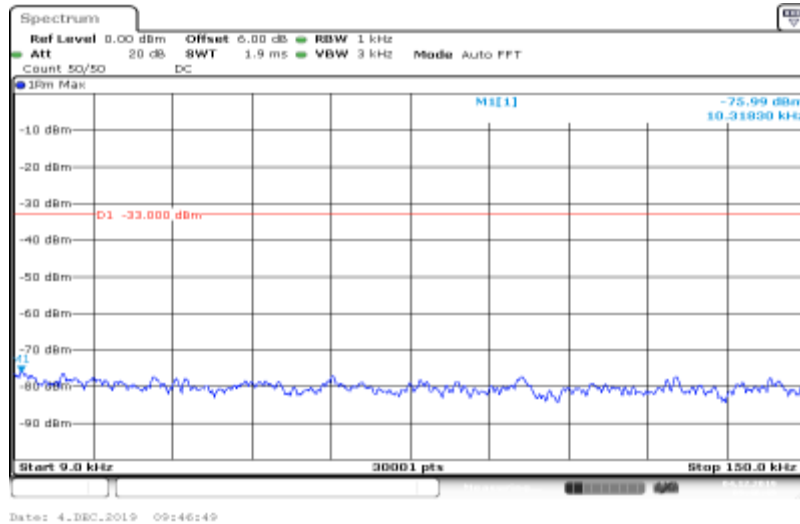
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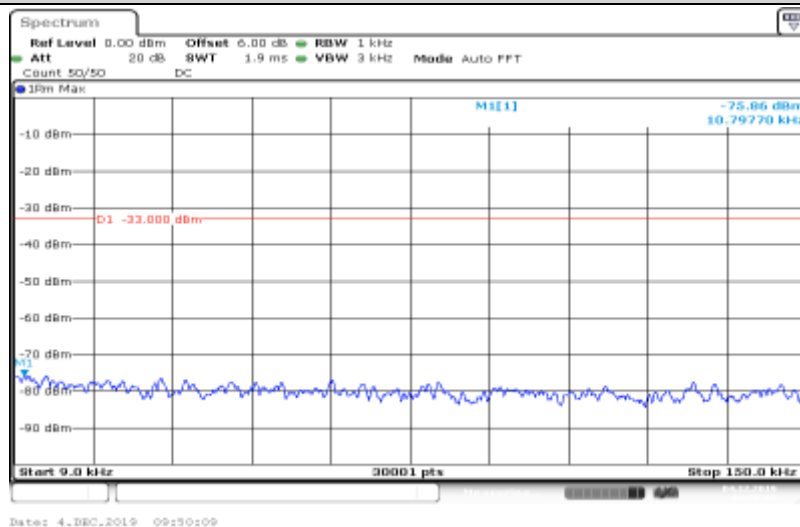
Http://www.sz-ctc.org.cn



Band IV-1513-HSDPA_Sub1-0.009~0.15



Band IV-1513-HSDPA_Sub2-0.009~0.15



Band IV-1513-HSDPA_Sub3-0.009~0.15

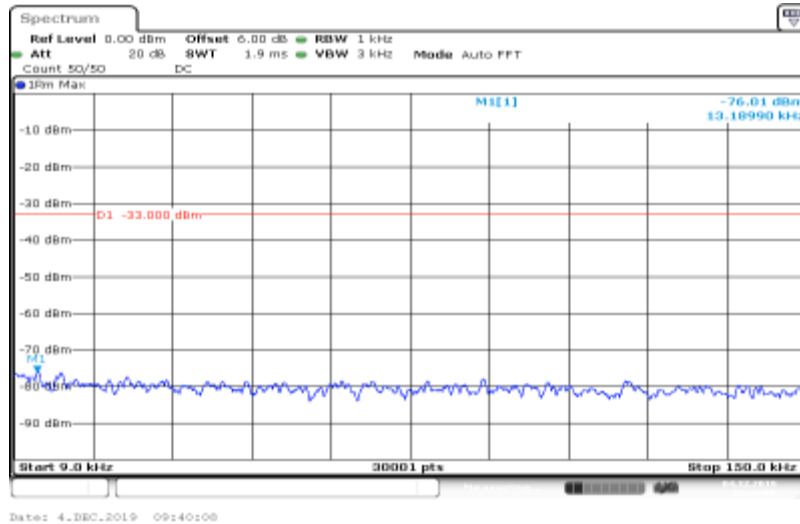
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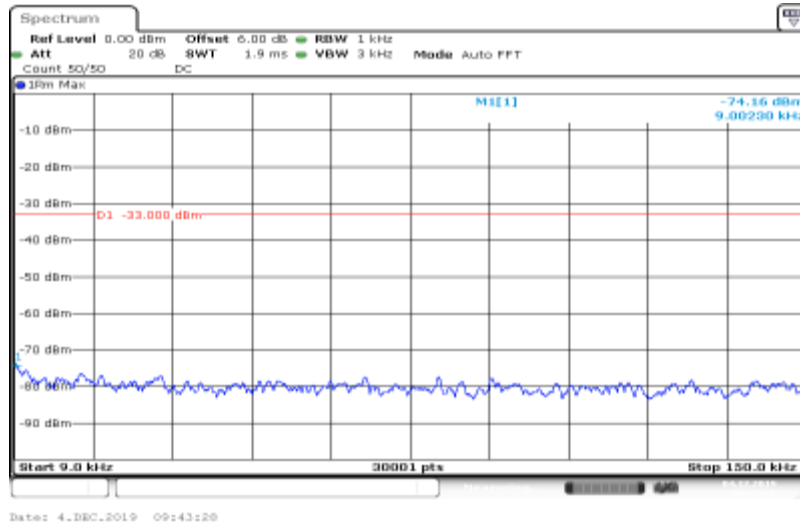
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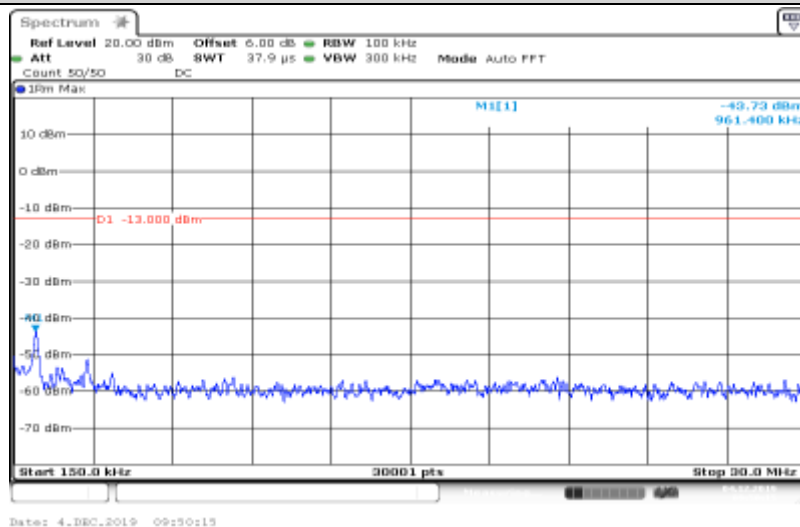
Http://www.sz-ctc.org.cn



Band IV-1513-HSDPA_Sub4-0.009~0.15



Band IV-1513-HSDPA_Sub1-0.15~30



Band IV-1513-HSDPA_Sub2-0.15~30

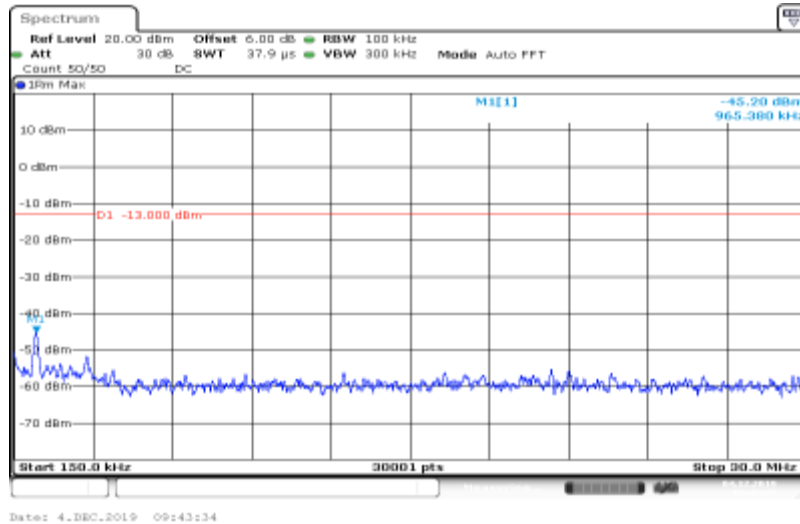
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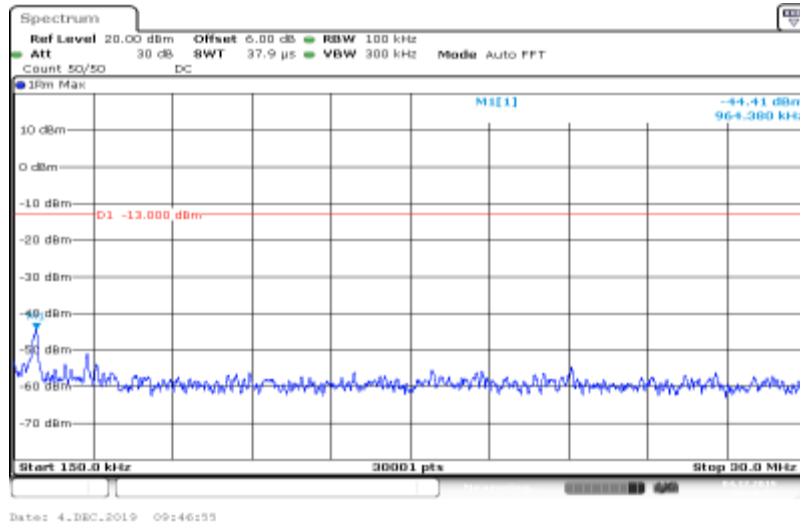
Tel.: (86)755-27521059

Fax: (86)755-27521011

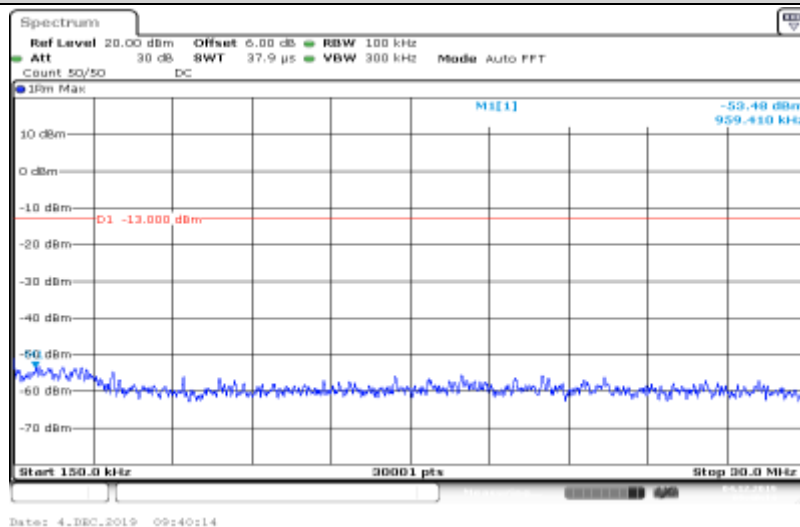
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Band IV-1513-HSDPA_Sub3-0.15~30



Band IV-1513-HSDPA_Sub4-0.15~30



Band IV-1513-HSDPA_Sub1-30~1000

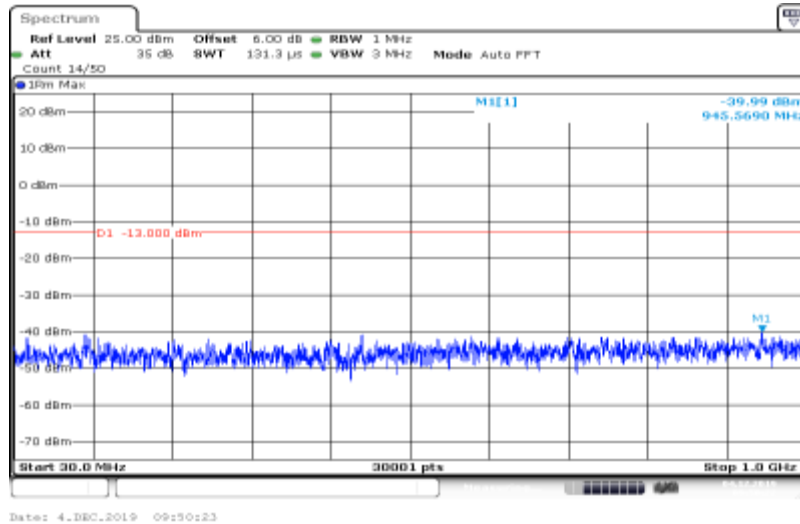
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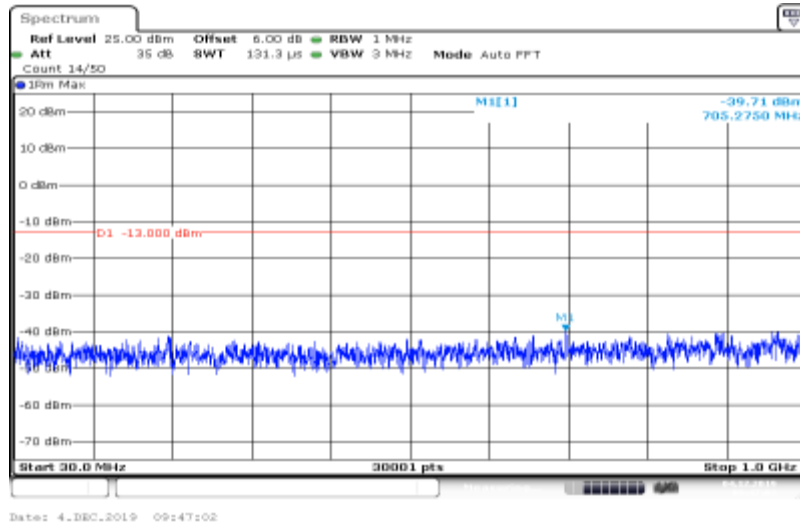
Tel.: (86)755-27521059

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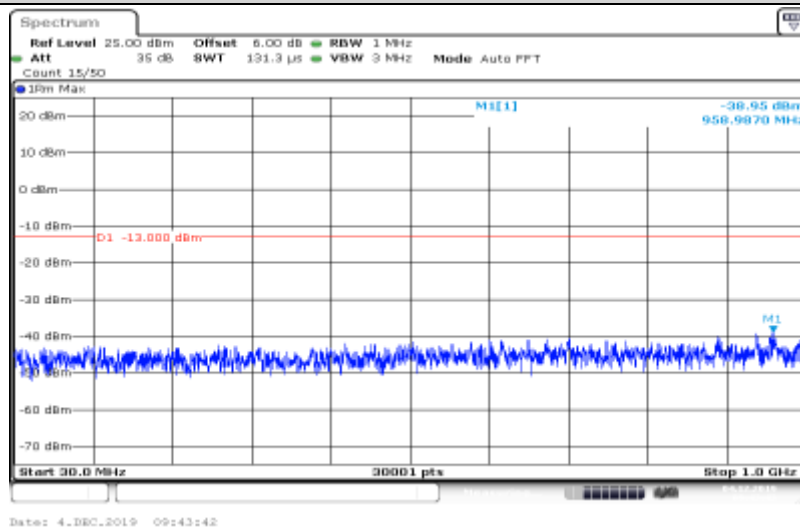
Http://www.sz-ctc.org.cn



Band IV-1513-HSDPA_Sub2-30~1000



Band IV-1513-HSDPA_Sub3-30~1000



Band IV-1513-HSDPA_Sub4-30~1000

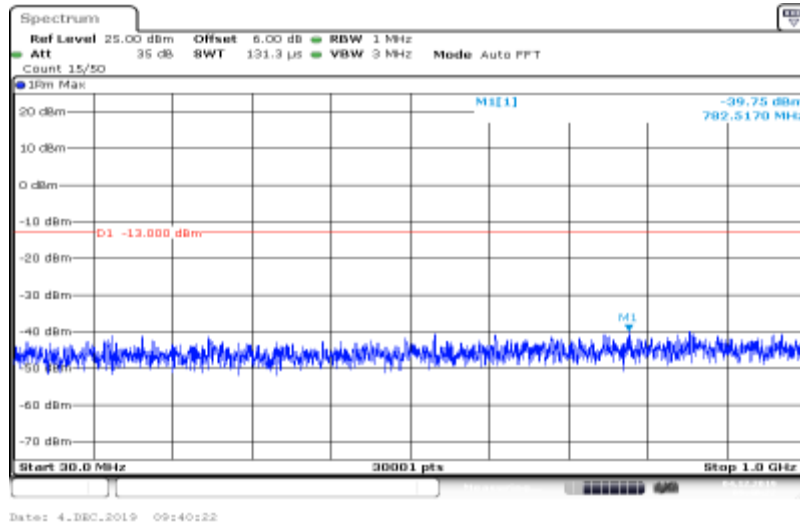
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

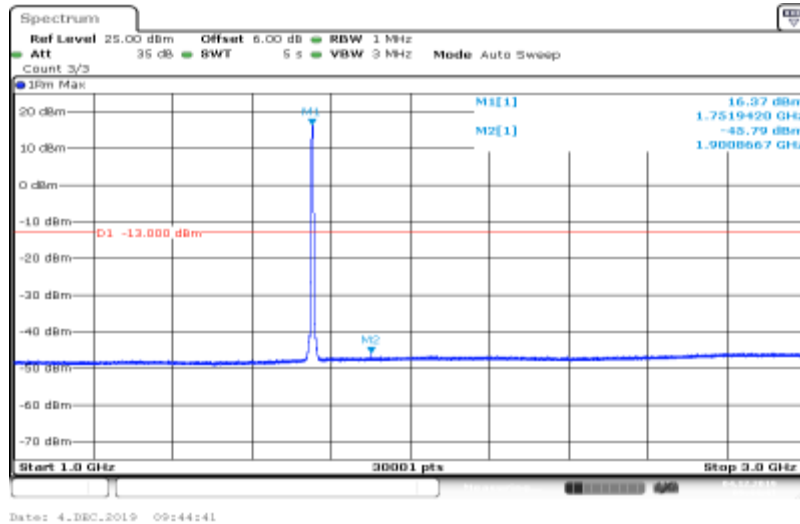
Tel.: (86)755-27521059

Fax: (86)755-27521011

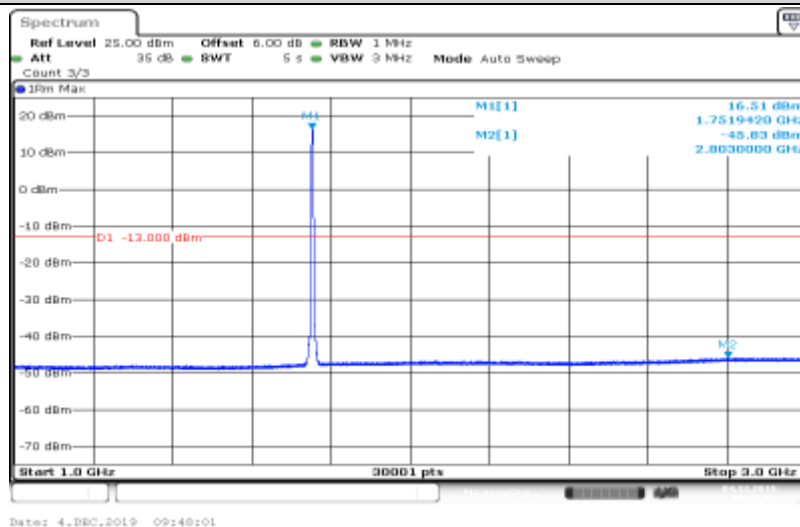
Http://www.sz-ctc.org.cn



Band IV-1513-HSDPA_Sub1-1000~3000



Band IV-1513-HSDPA_Sub2-1000~3000



Band IV-1513-HSDPA_Sub3-1000~3000

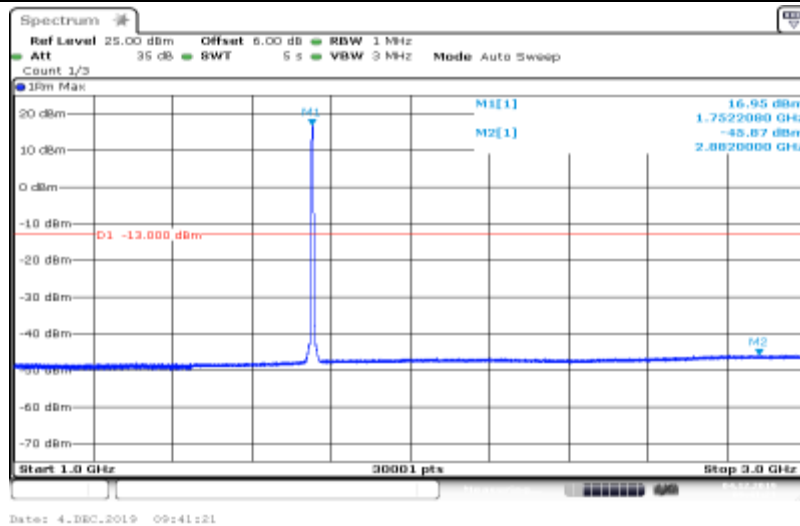
CTC Laboratories, Inc.

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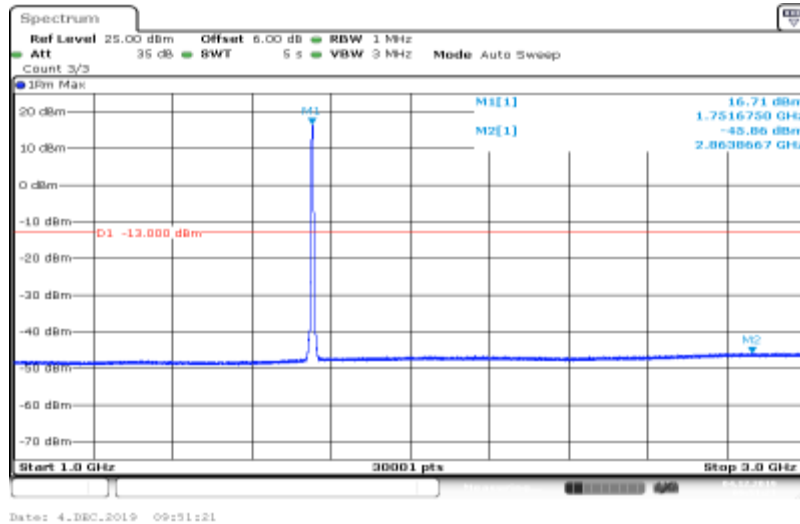
Tel.: (86)755-27521059

Fax: (86)755-27521011

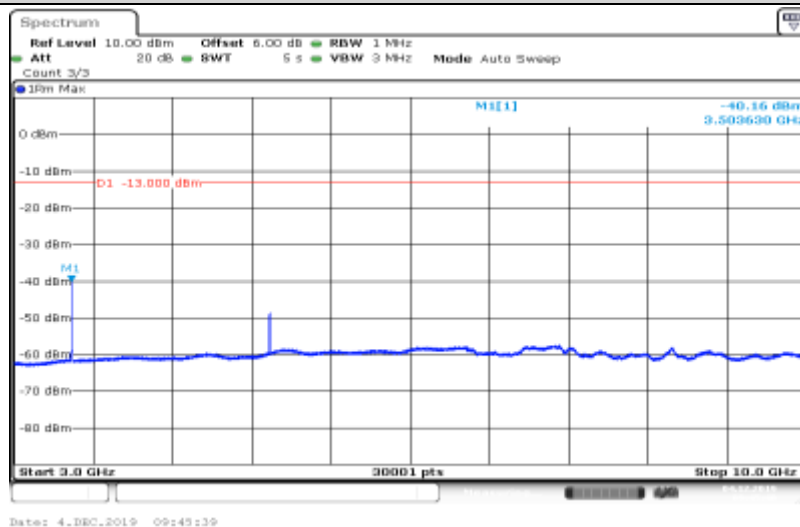
Http://www.sz-ctc.org.cn



Band IV-1513-HSDPA_Sub4-1000~3000



Band IV-1513-HSDPA_Sub1-3000~10000



Band IV-1513-HSDPA_Sub2-3000~10000

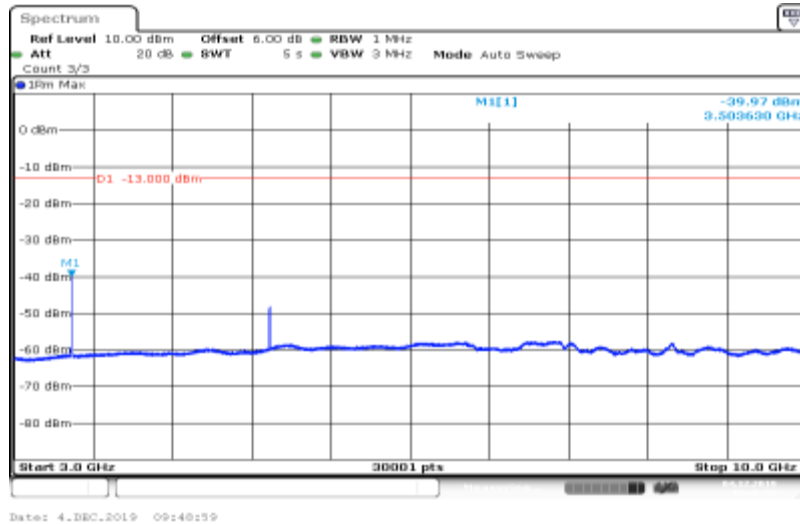
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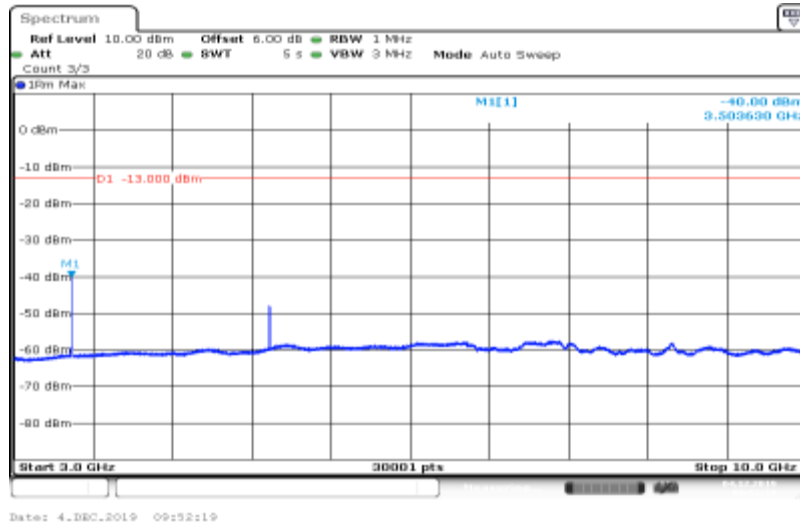
Tel.: (86)755-27521059

Fax: (86)755-27521011

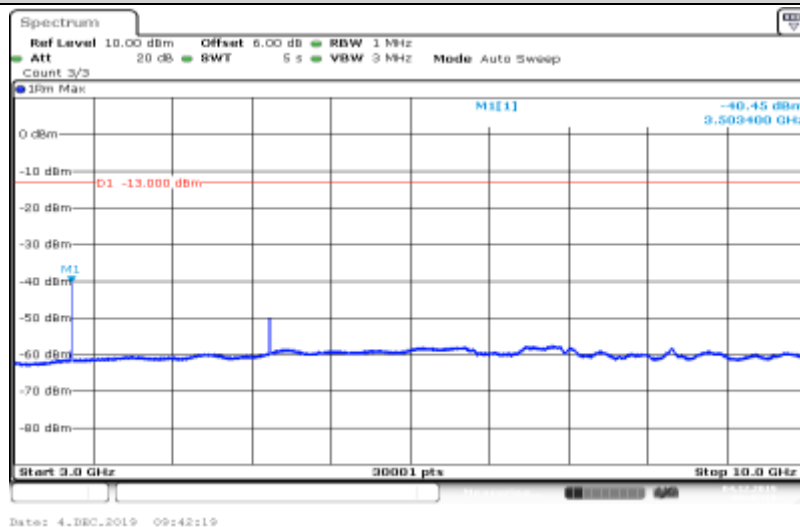
Http://www.sz-ctc.org.cn



Band IV-1513-HSDPA_Sub3-3000~10000



Band IV-1513-HSDPA_Sub4-3000~10000



Band IV-1513-HSDPA_Sub1-10000~18000

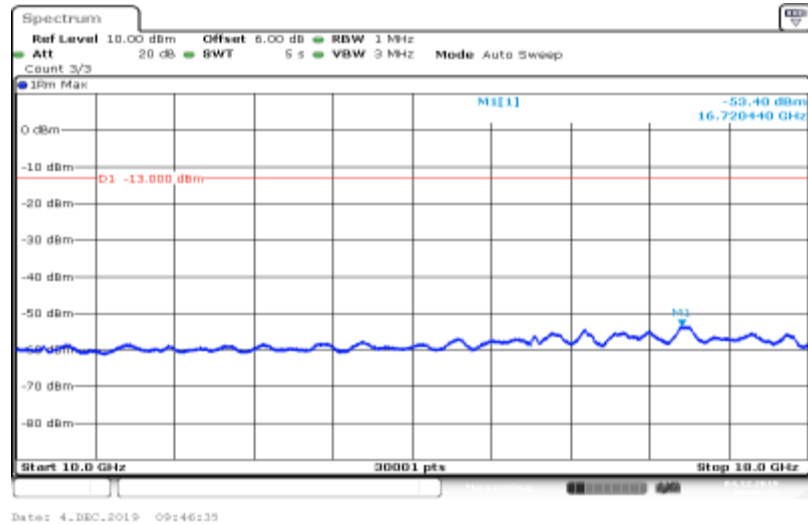
CTC Laboratories, Inc.

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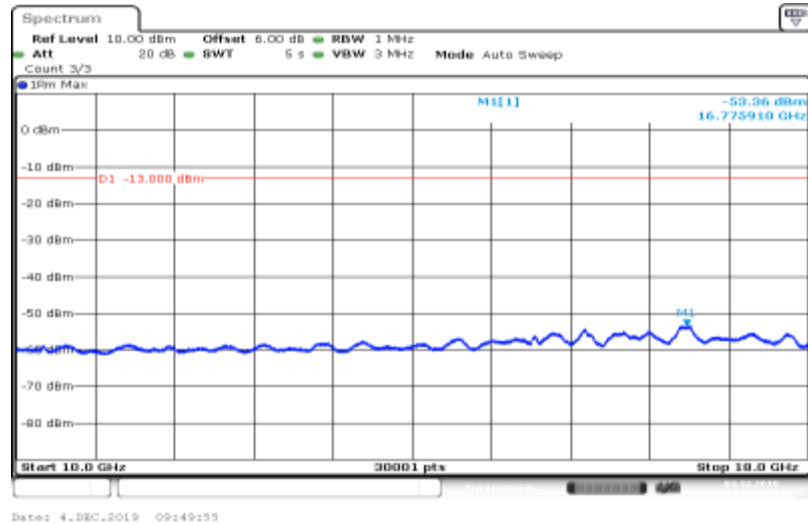
Tel.: (86)755-27521059

Fax: (86)755-27521011

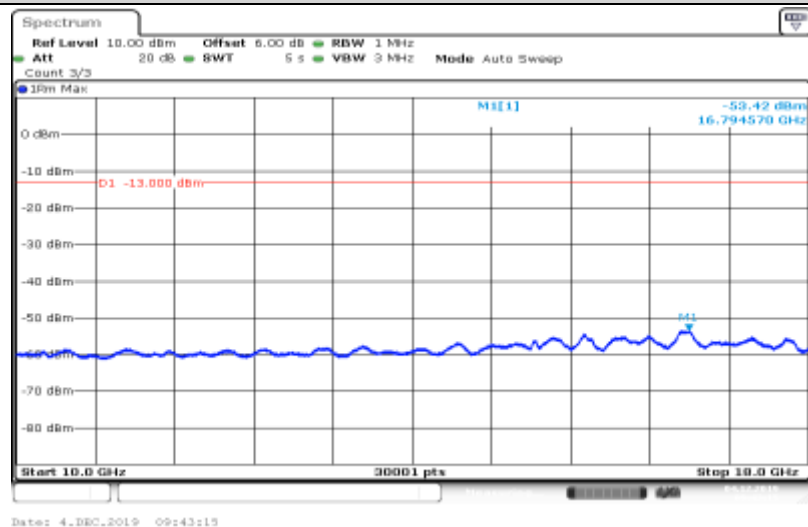
Http://www.sz-ctc.org.cn



Band IV-1513-HSDPA_Sub2-10000~18000



Band IV-1513-HSDPA_Sub3-10000~18000



Band IV-1513-HSDPA_Sub4-10000~18000

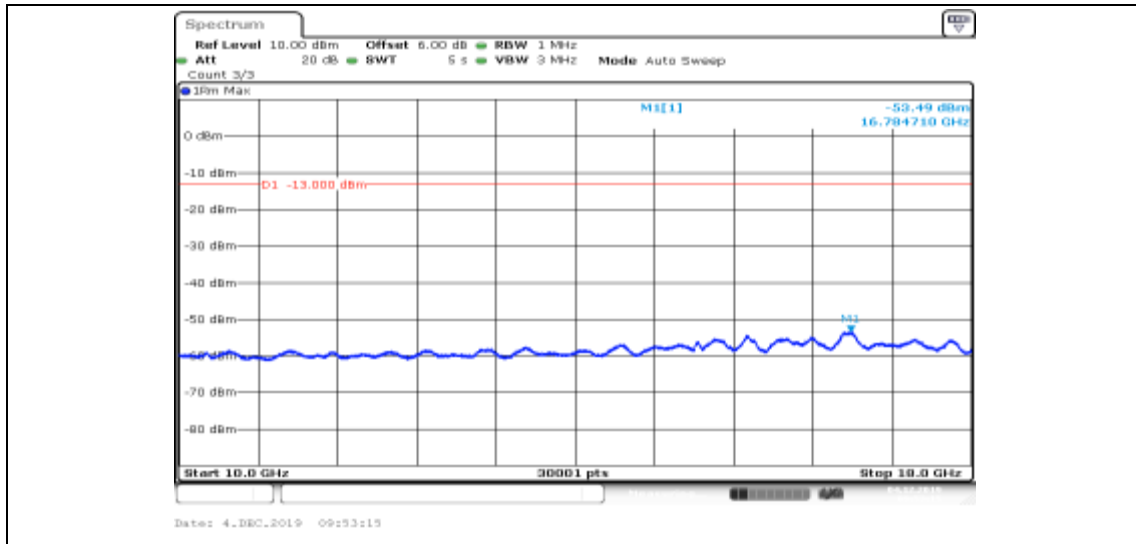
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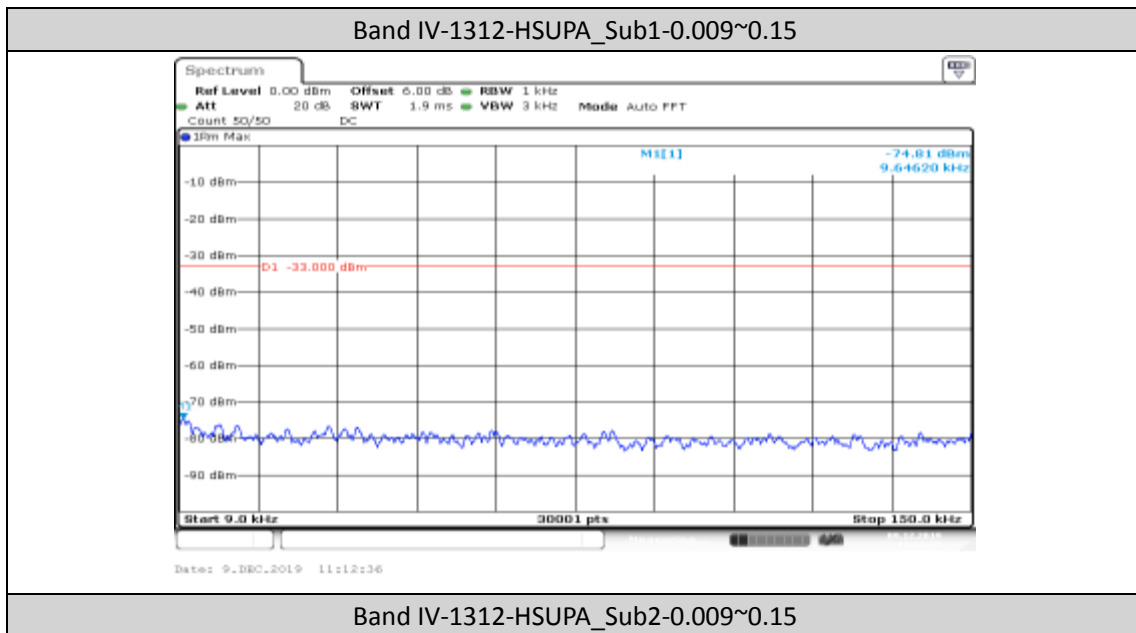
Tel.: (86)755-27521059

Fax: (86)755-27521011

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HSUPA:



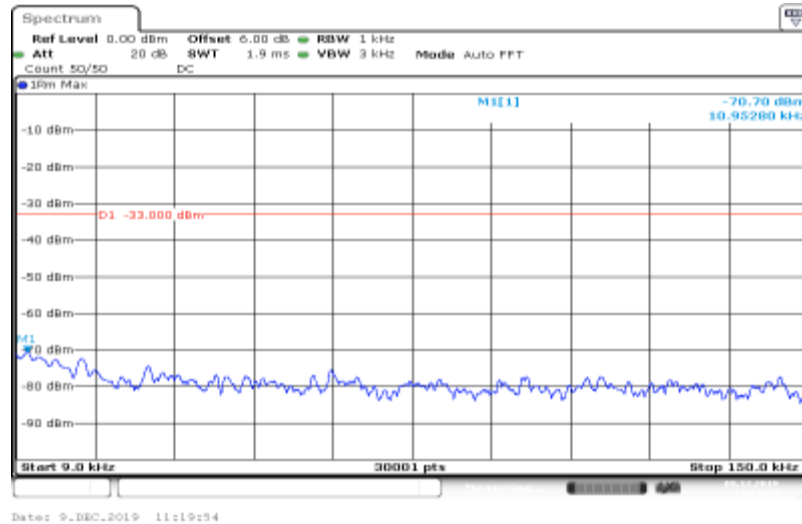
CTC Laboratories, Inc.

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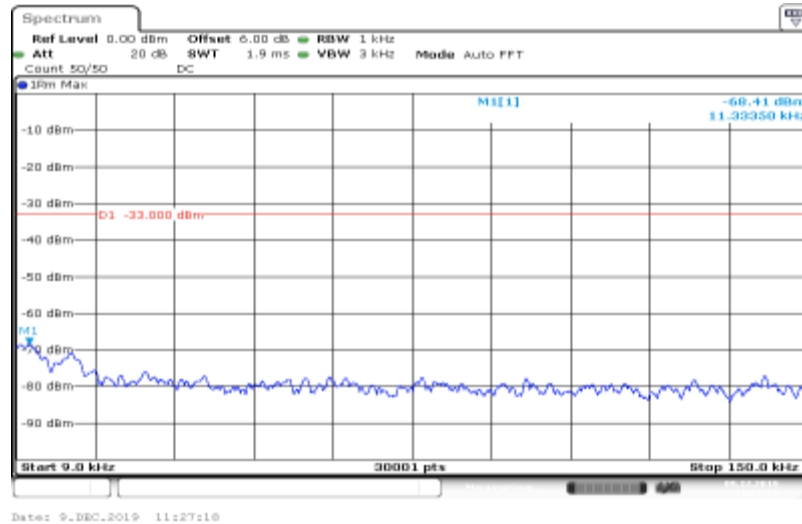
Tel.: (86)755-27521059

Fax: (86)755-27521011

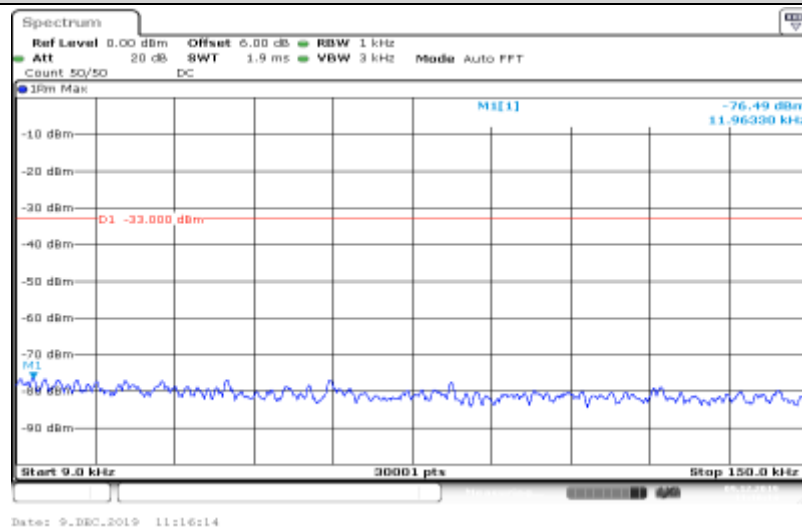
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub3-0.009~0.15



Band IV-1312-HSUPA_Sub4-0.009~0.15



Band IV-1312-HSUPA_Sub5-0.009~0.15

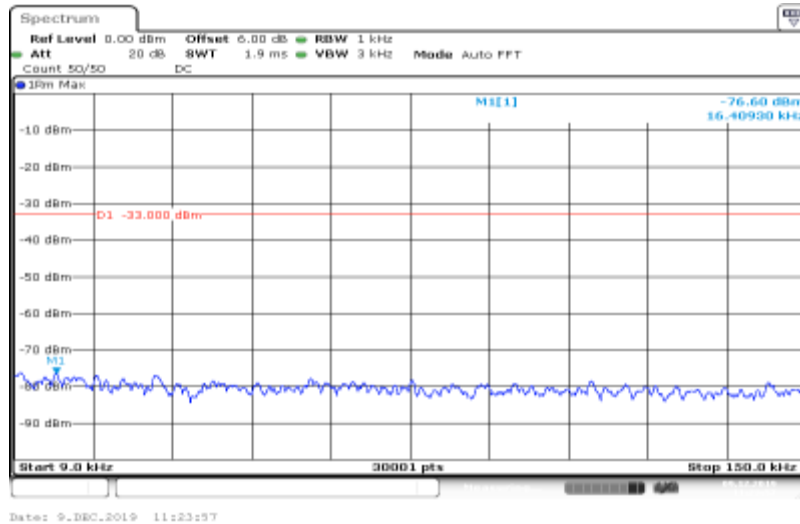
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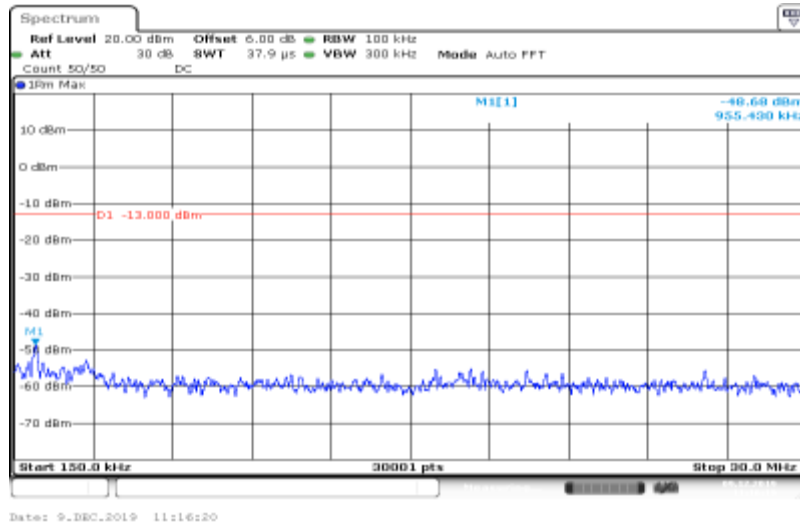
Tel.: (86)755-27521059

Fax: (86)755-27521011

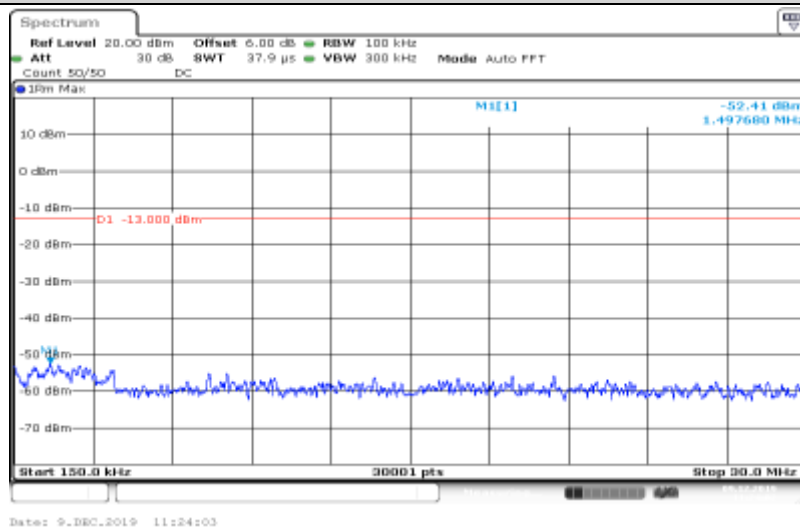
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub1-0.15~30



Band IV-1312-HSUPA_Sub2-0.15~30



Band IV-1312-HSUPA_Sub3-0.15~30

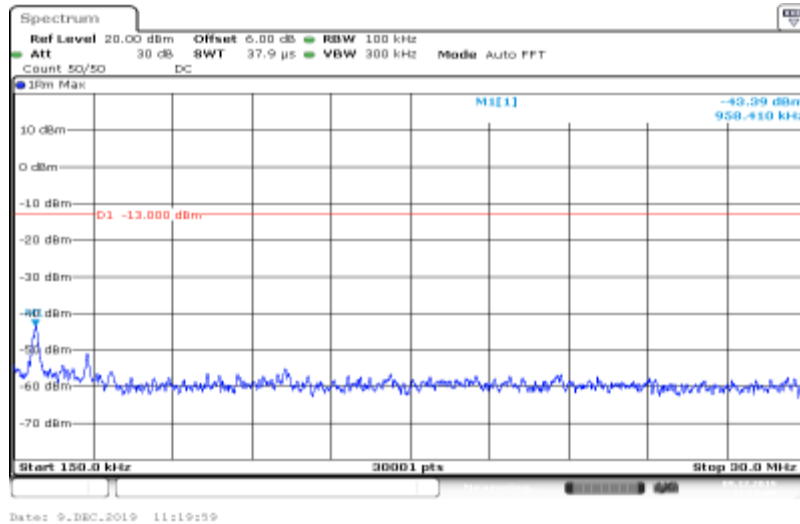
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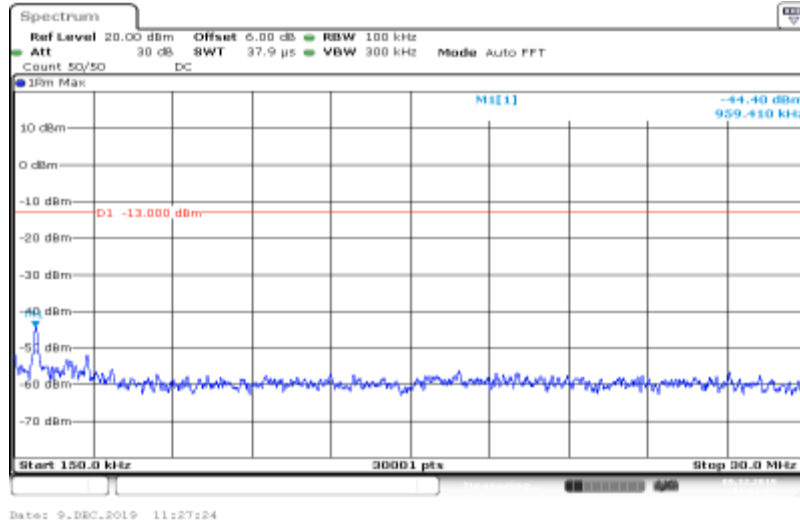
Tel.: (86)755-27521059

Fax: (86)755-27521011

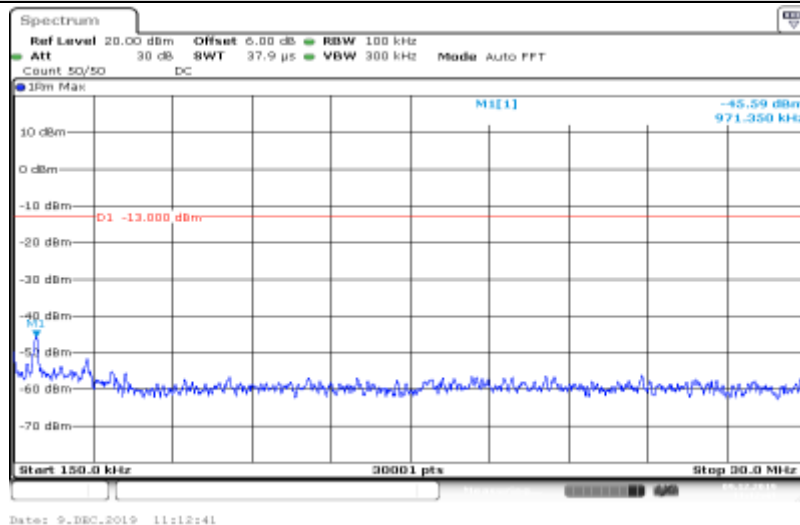
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub4-0.15~30



Band IV-1312-HSUPA_Sub5-0.15~30



Band IV-1312-HSUPA_Sub1-30~1000

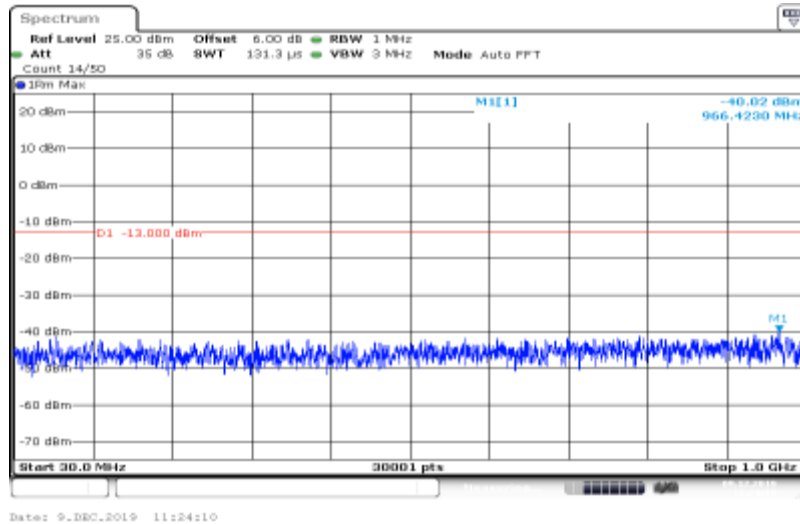
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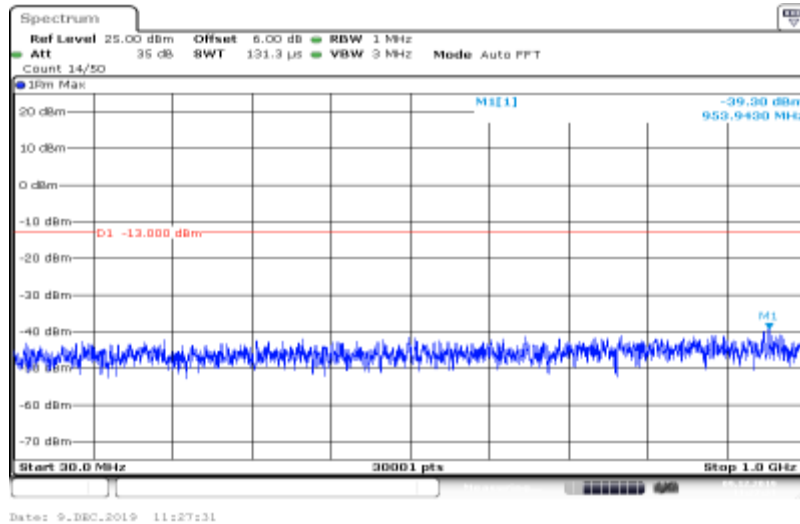
Tel.: (86)755-27521059

Fax: (86)755-27521011

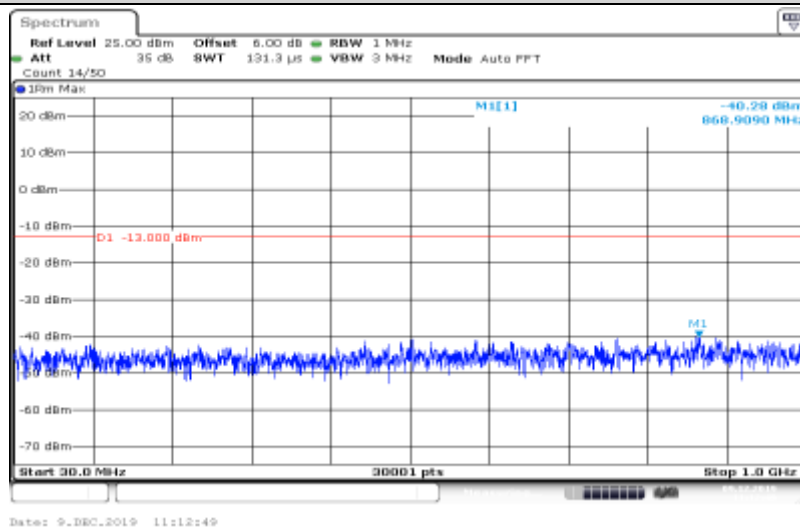
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub2-30~1000



Band IV-1312-HSUPA_Sub3-30~1000



Band IV-1312-HSUPA_Sub4-30~1000

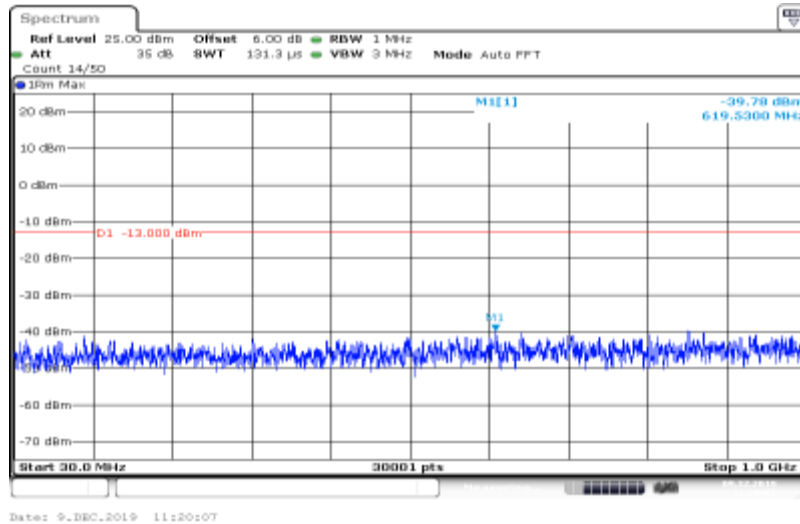
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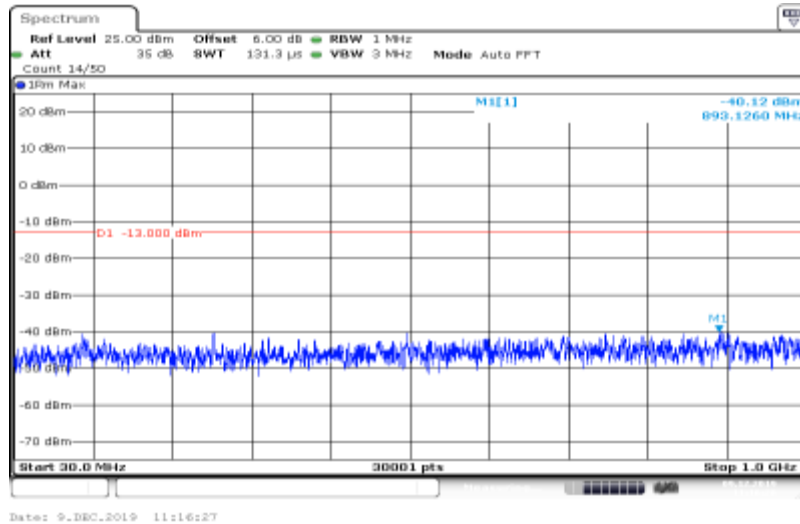
Tel.: (86)755-27521059

Fax: (86)755-27521011

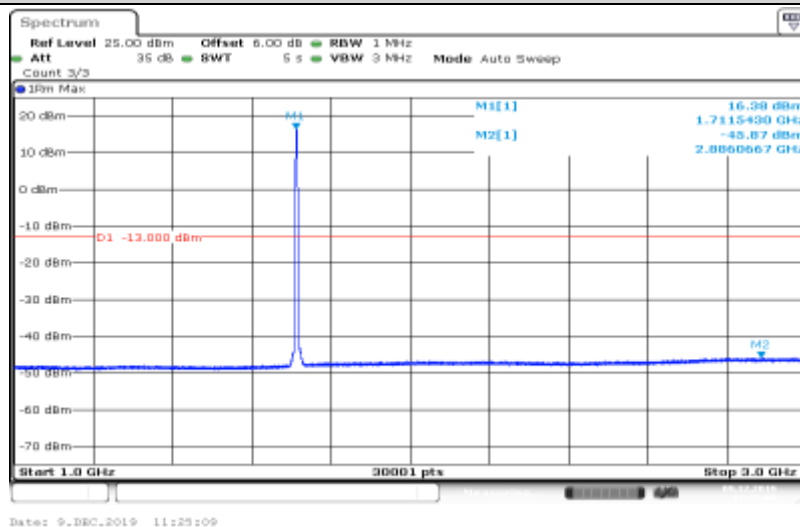
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub5-30~1000



Band IV-1312-HSUPA_Sub1-1000~3000



Band IV-1312-HSUPA_Sub2-1000~3000

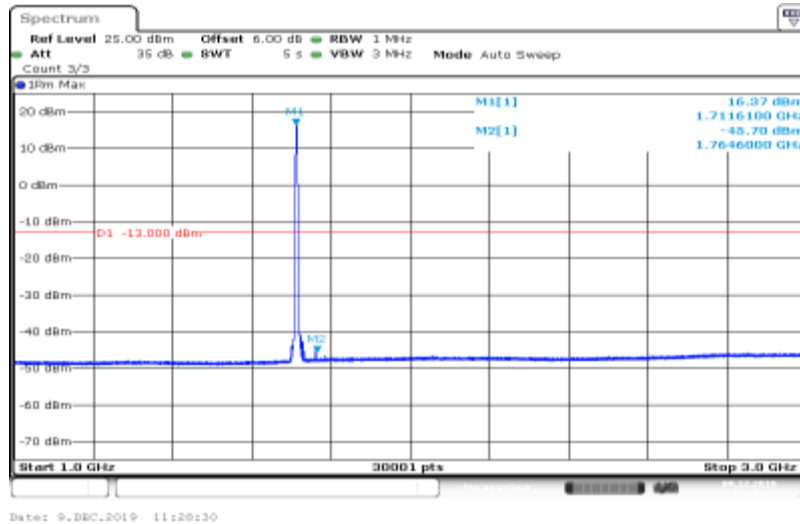
CTC Laboratories, Inc.

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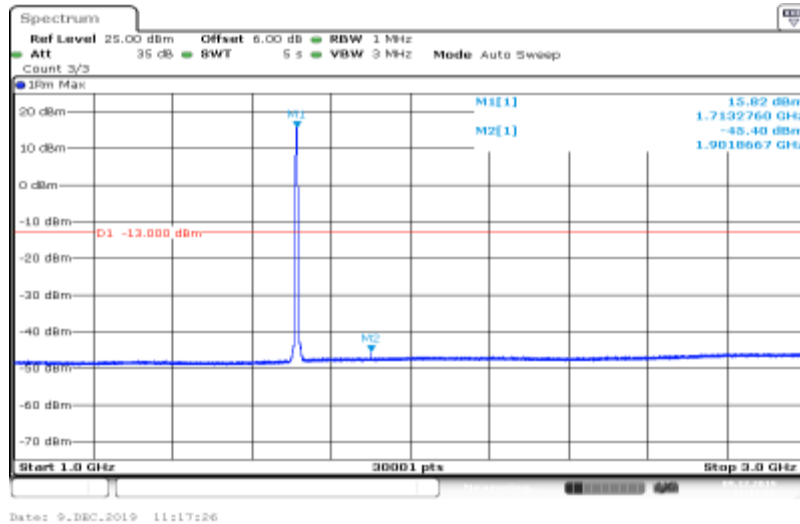
Tel.: (86)755-27521059

Fax: (86)755-27521011

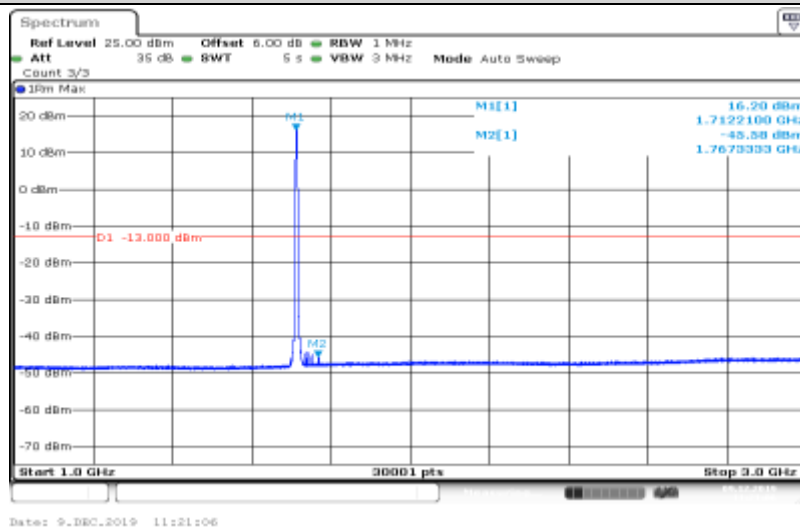
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub3-1000~3000



Band IV-1312-HSUPA_Sub4-1000~3000



Band IV-1312-HSUPA_Sub5-1000~3000

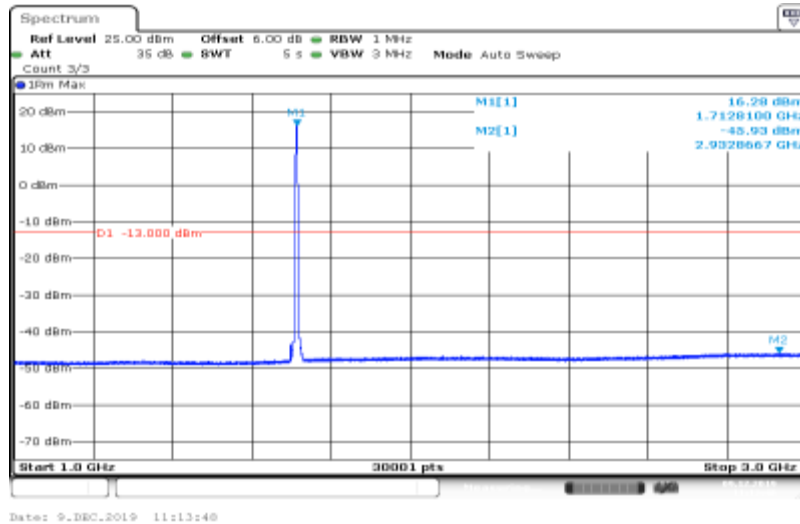
CTC Laboratories, Inc.

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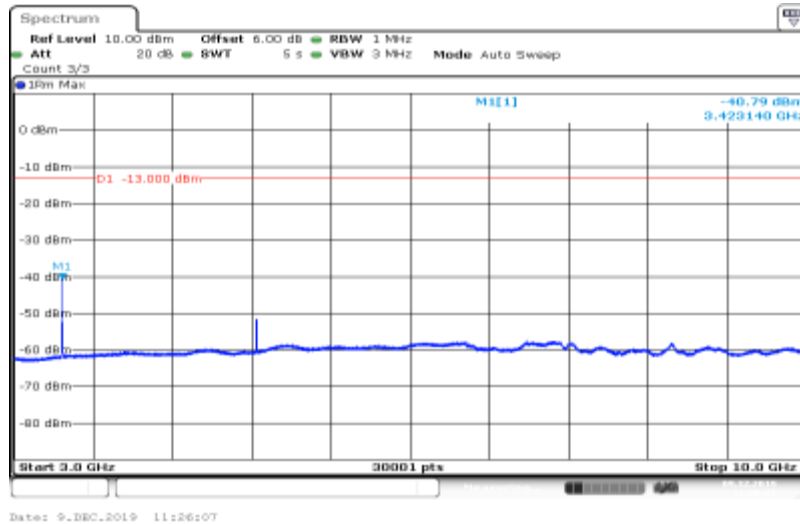
Tel.: (86)755-27521059

Fax: (86)755-27521011

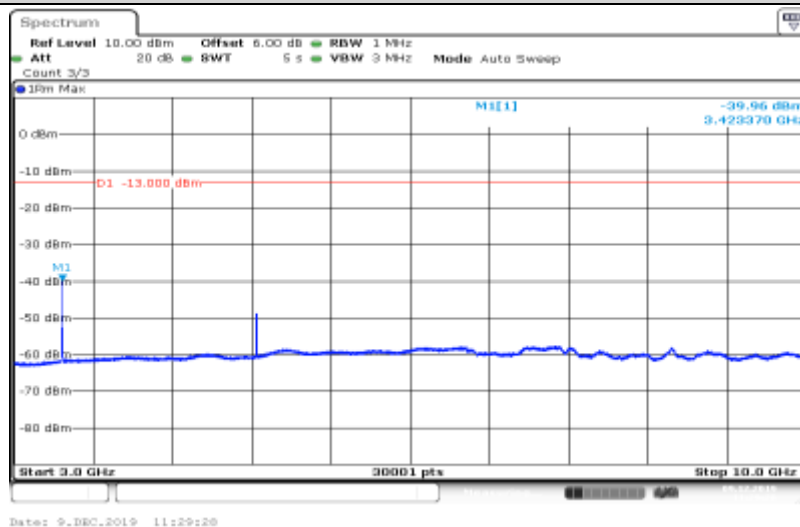
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub1-3000~10000



Band IV-1312-HSUPA_Sub2-3000~10000



Band IV-1312-HSUPA_Sub3-3000~10000

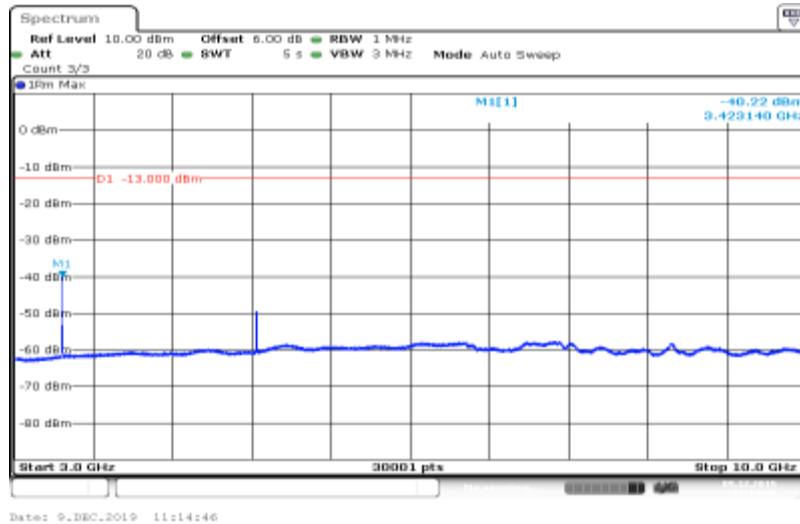
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

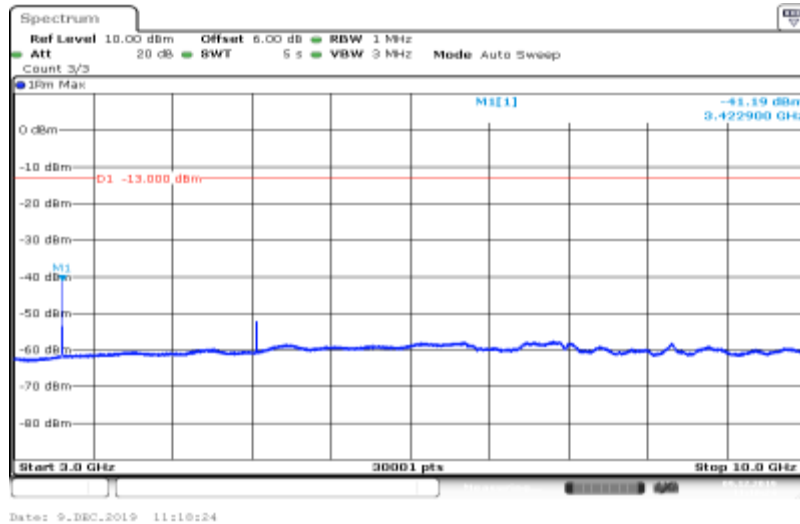
Tel.: (86)755-27521059

Fax: (86)755-27521011

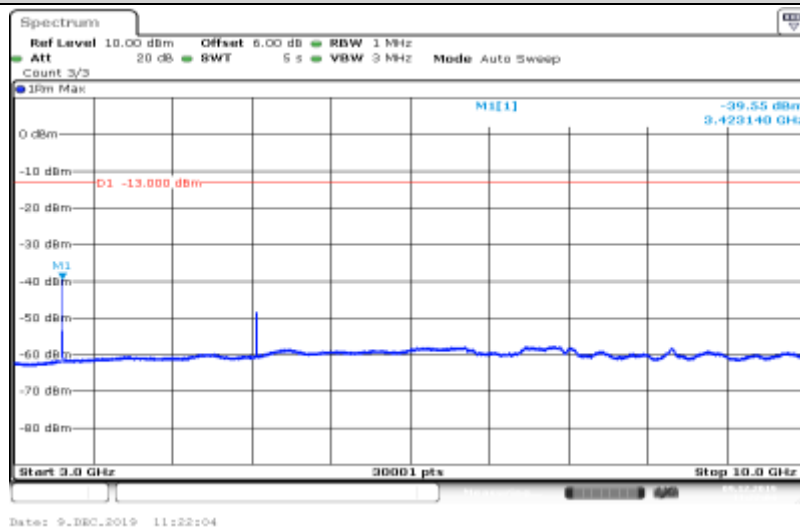
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub4-3000~10000



Band IV-1312-HSUPA_Sub5-3000~10000



Band IV-1312-HSUPA_Sub1-10000~18000

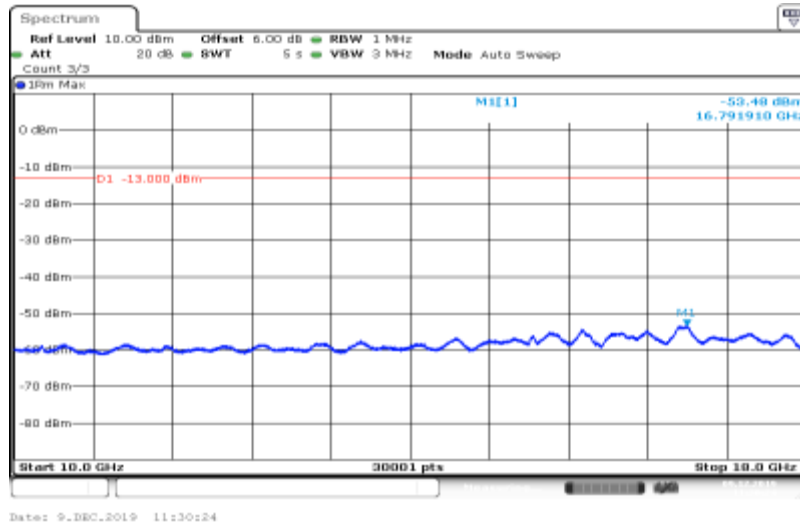
CTC Laboratories, Inc.

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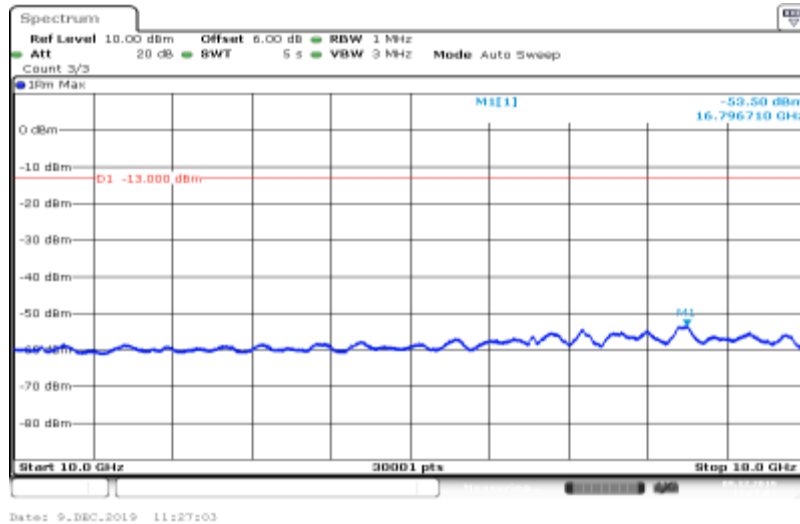
Tel.: (86)755-27521059

Fax: (86)755-27521011

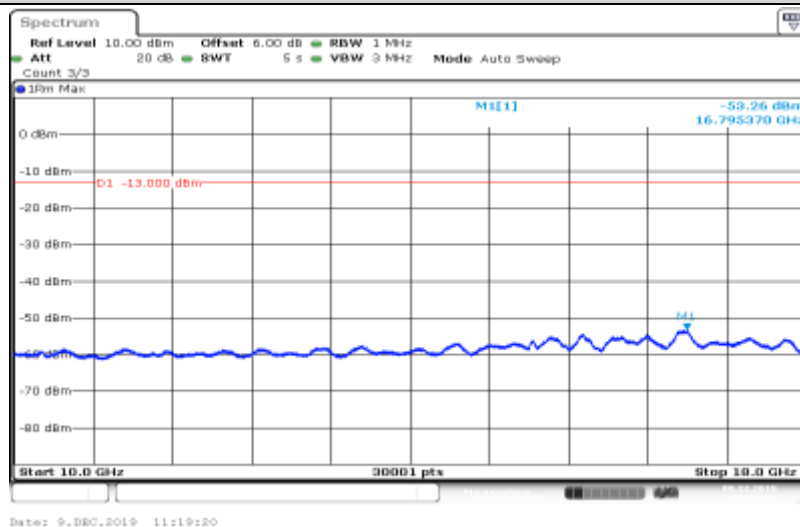
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub2-10000~18000



Band IV-1312-HSUPA_Sub3-10000~18000



Band IV-1312-HSUPA_Sub4-10000~18000

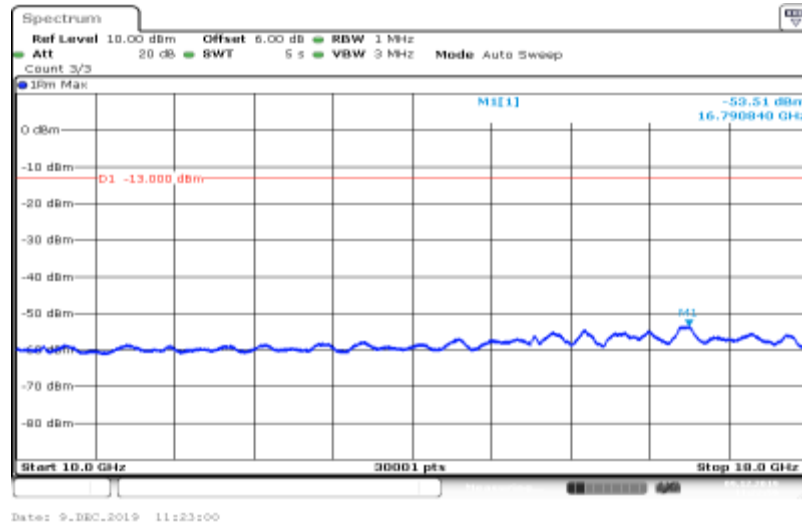
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

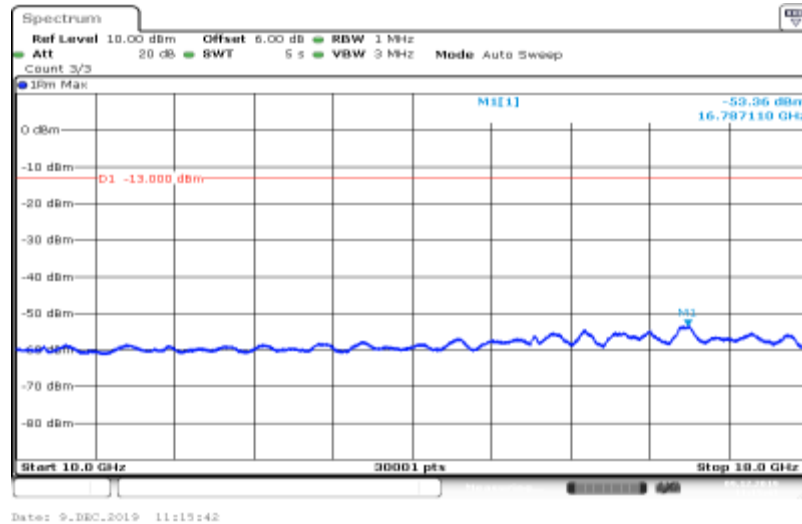
Tel.: (86)755-27521059

Fax: (86)755-27521011

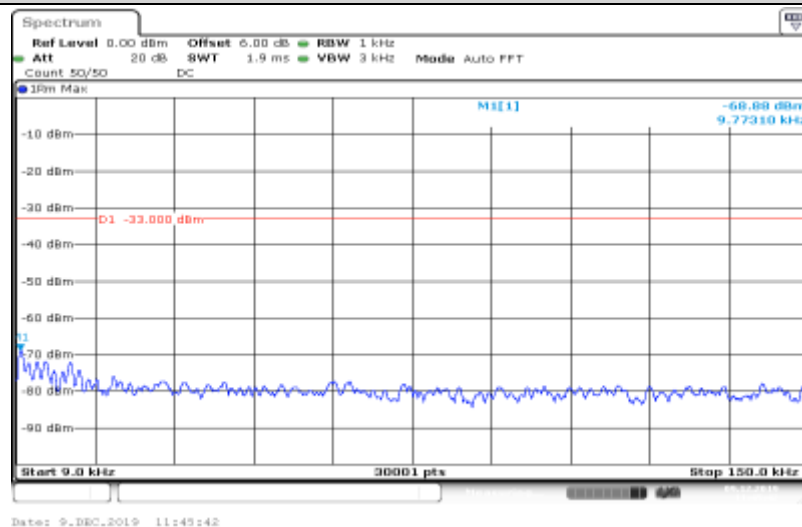
Http://www.sz-ctc.org.cn



Band IV-1312-HSUPA_Sub5-10000~18000



Band IV-1413-HSUPA_Sub1-0.009~0.15



Band IV-1413-HSUPA_Sub2-0.009~0.15

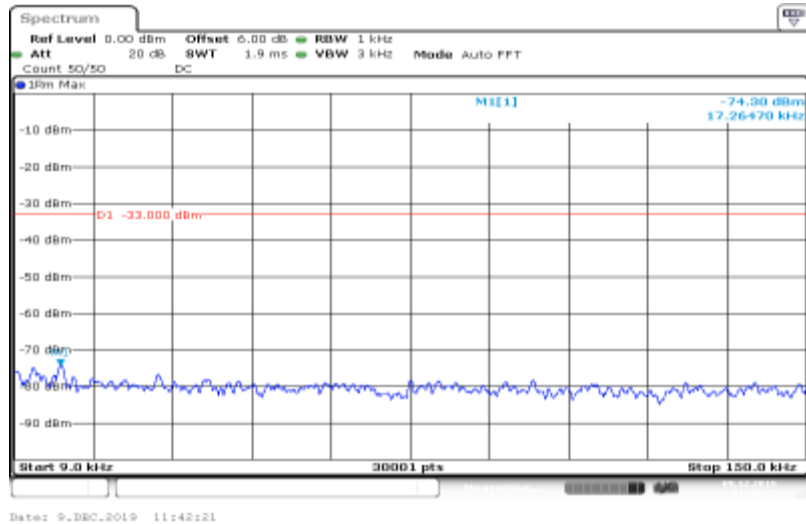
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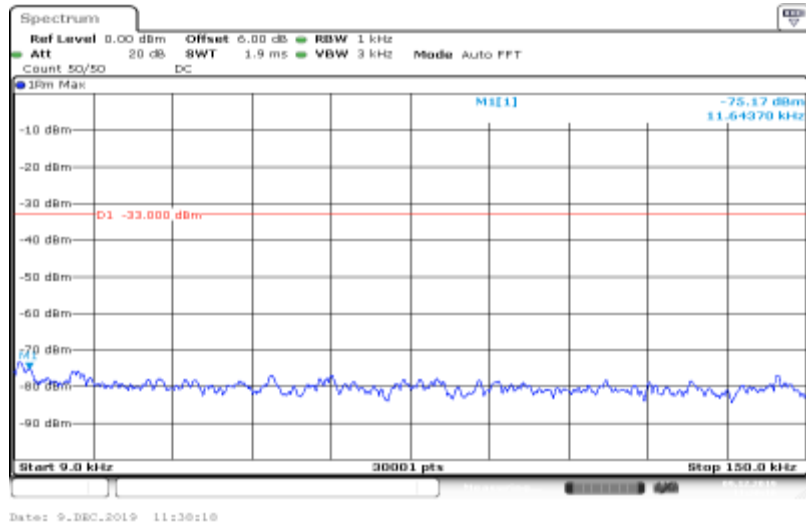
Tel.: (86)755-27521059

Fax: (86)755-27521011

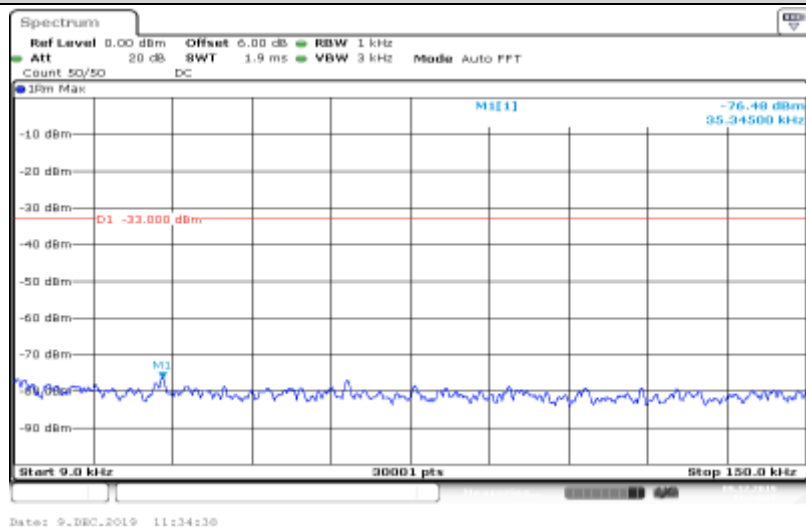
Http://www.sz-ctc.org.cn



Band IV-1413-HSUPA_Sub3-0.009~0.15



Band IV-1413-HSUPA_Sub4-0.009~0.15



Band IV-1413-HSUPA_Sub5-0.009~0.15

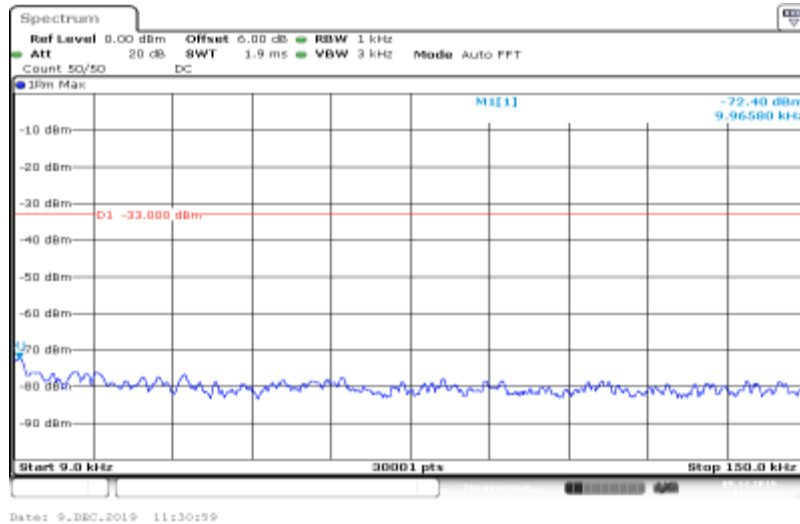
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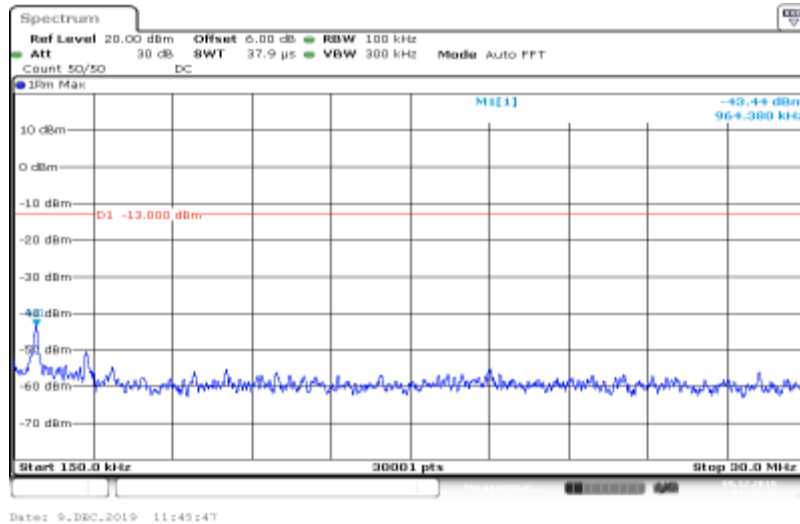
Tel.: (86)755-27521059

Fax: (86)755-27521011

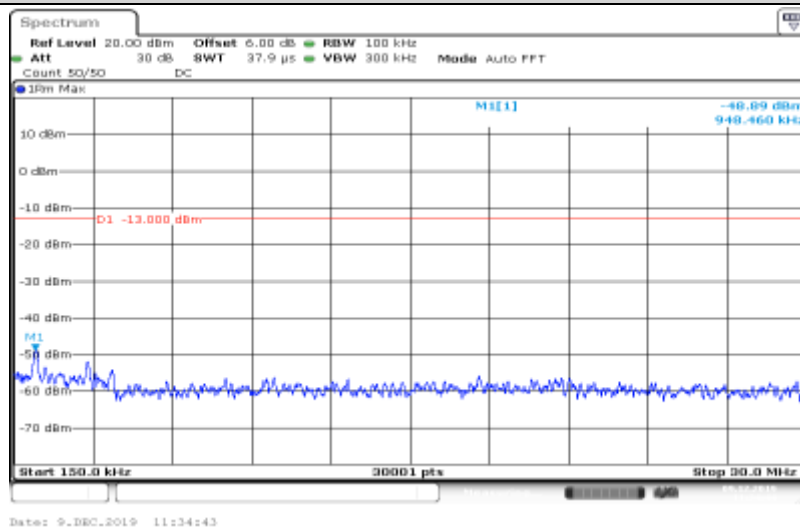
Http://www.sz-ctc.org.cn



Band IV-1413-HSUPA_Sub1-0.15~30



Band IV-1413-HSUPA_Sub2-0.15~30



Band IV-1413-HSUPA_Sub3-0.15~30

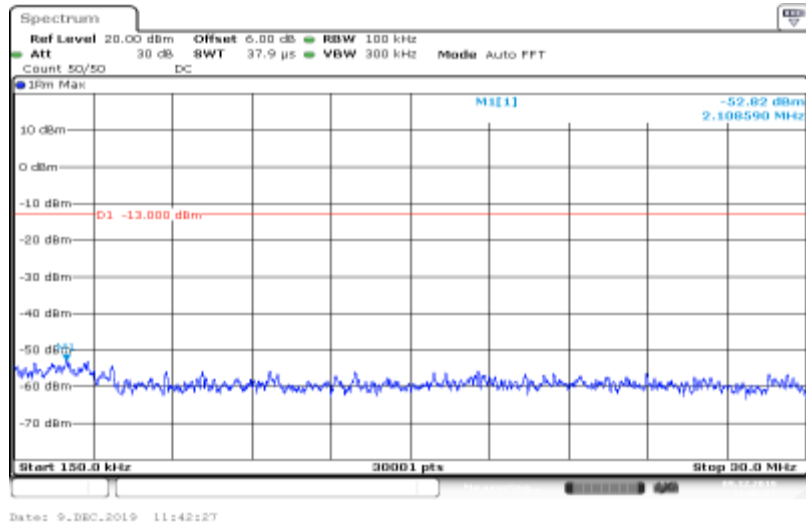
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2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

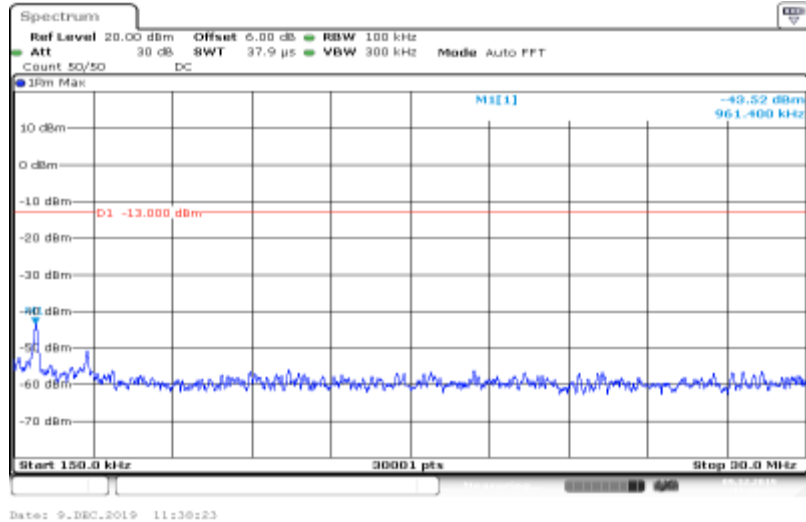
Tel.: (86)755-27521059

Fax: (86)755-27521011

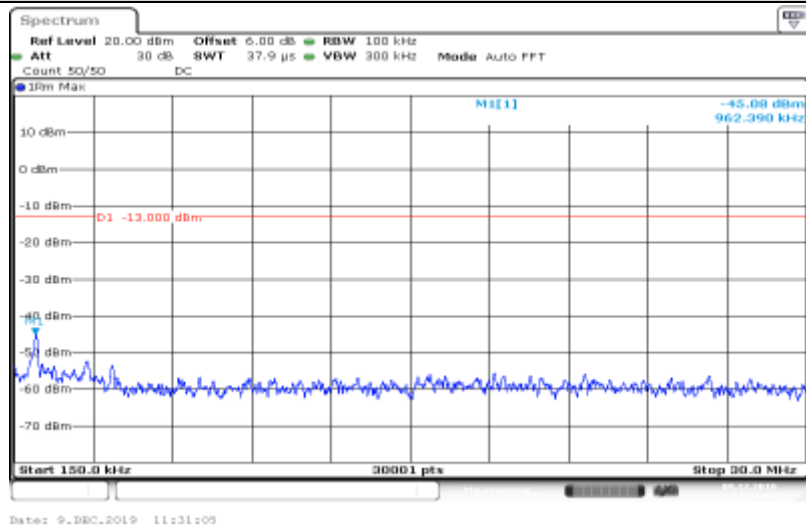
Http://www.sz-ctc.org.cn



Band IV-1413-HSUPA_Sub4-0.15~30



Band IV-1413-HSUPA_Sub5-0.15~30



Band IV-1413-HSUPA_Sub1-30~1000

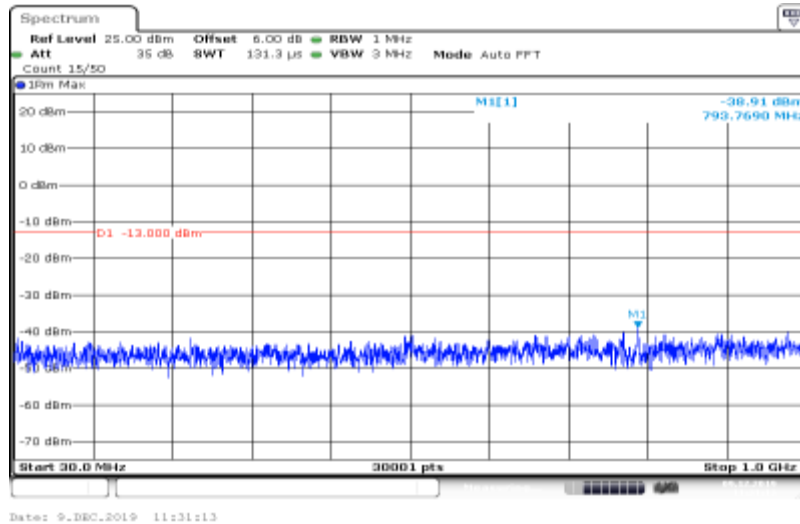
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2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

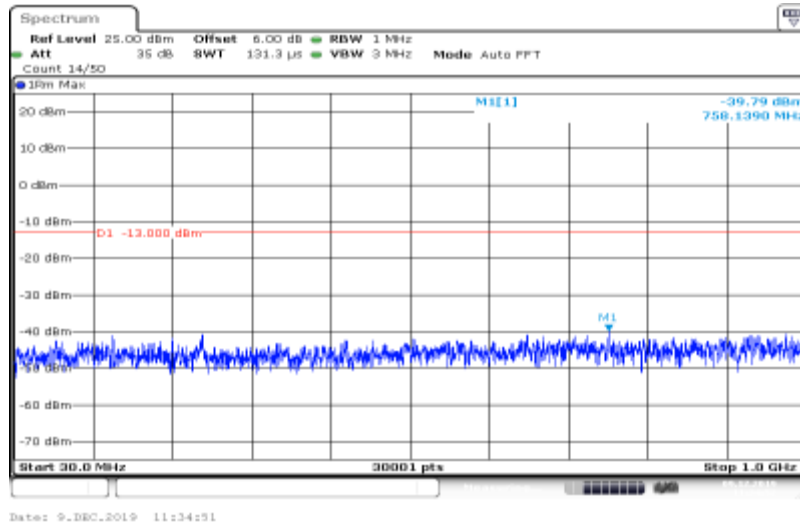
Tel.: (86)755-27521059

Fax: (86)755-27521011

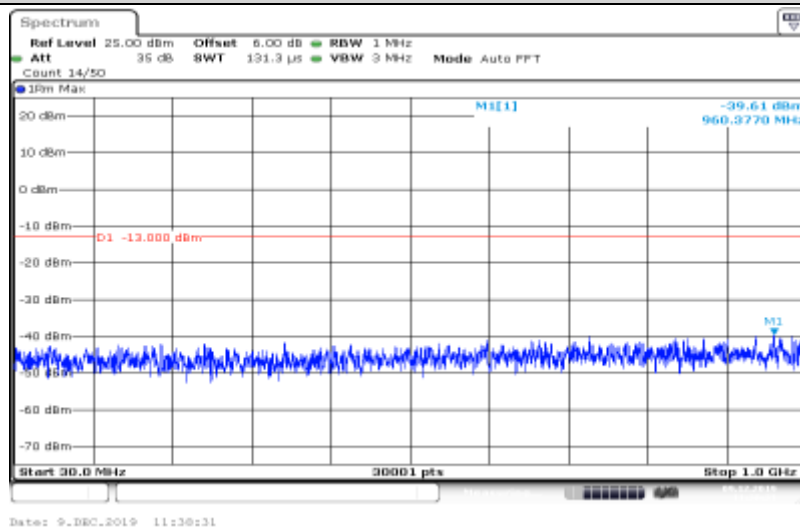
Http://www.sz-ctc.org.cn



Band IV-1413-HSUPA_Sub2-30~1000



Band IV-1413-HSUPA_Sub3-30~1000



Band IV-1413-HSUPA_Sub4-30~1000

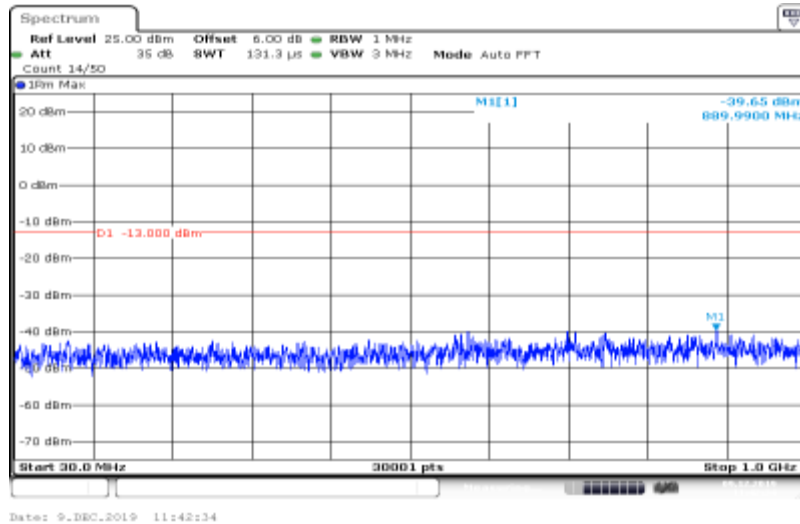
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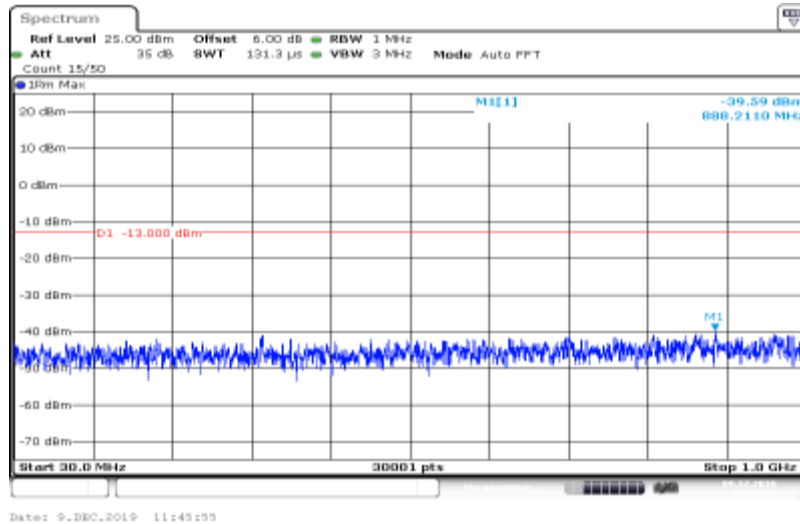
Tel.: (86)755-27521059

Fax: (86)755-27521011

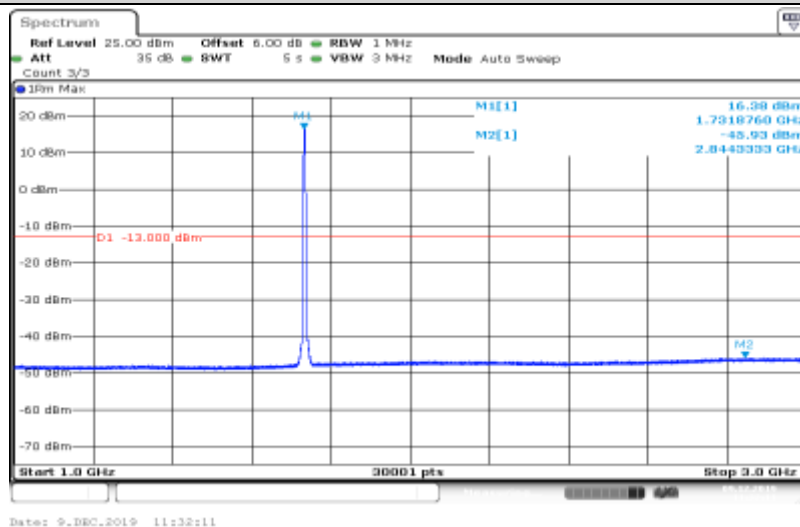
Http://www.sz-ctc.org.cn



Band IV-1413-HSUPA_Sub5-30~1000



Band IV-1413-HSUPA_Sub1-1000~3000



Band IV-1413-HSUPA_Sub2-1000~3000

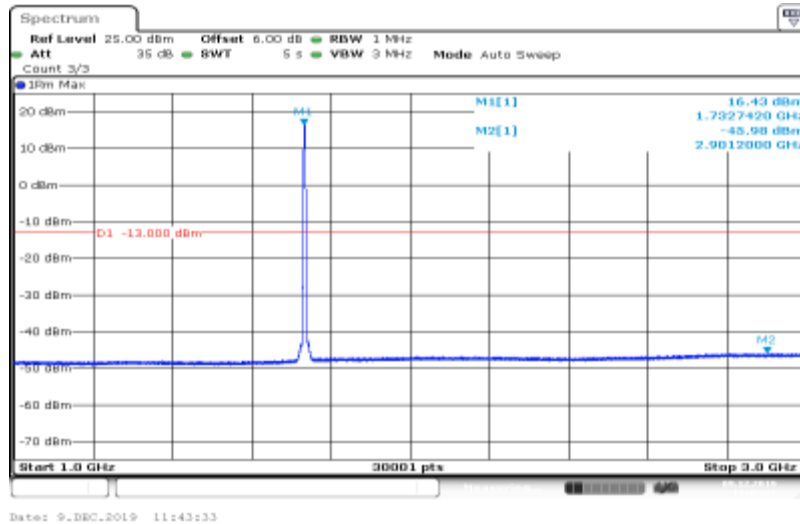
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2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

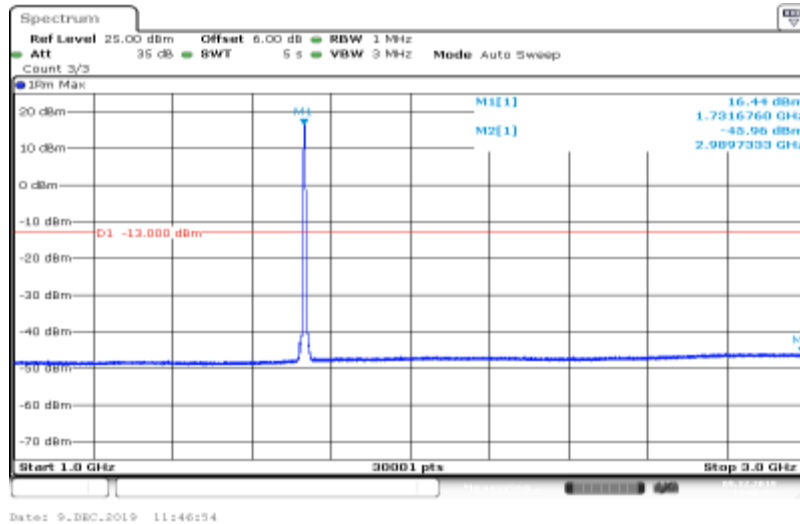
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Fax: (86)755-27521011

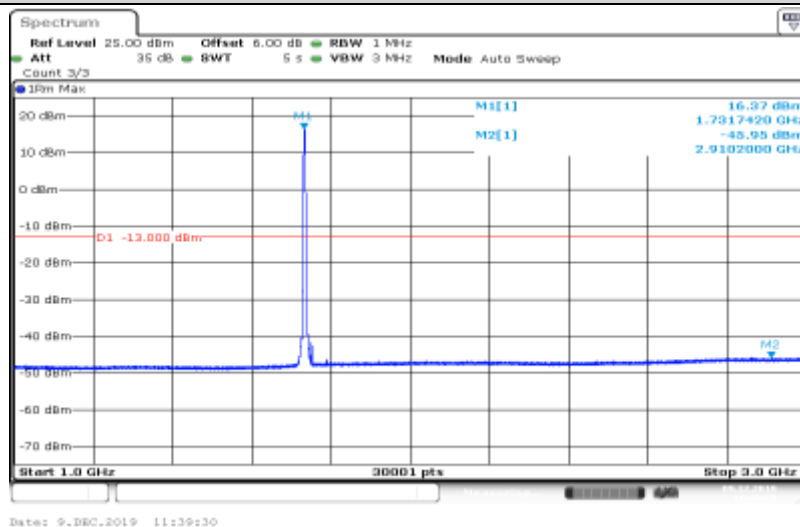
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Band IV-1413-HSUPA_Sub3-1000~3000



Band IV-1413-HSUPA_Sub4-1000~3000



Band IV-1413-HSUPA_Sub5-1000~3000

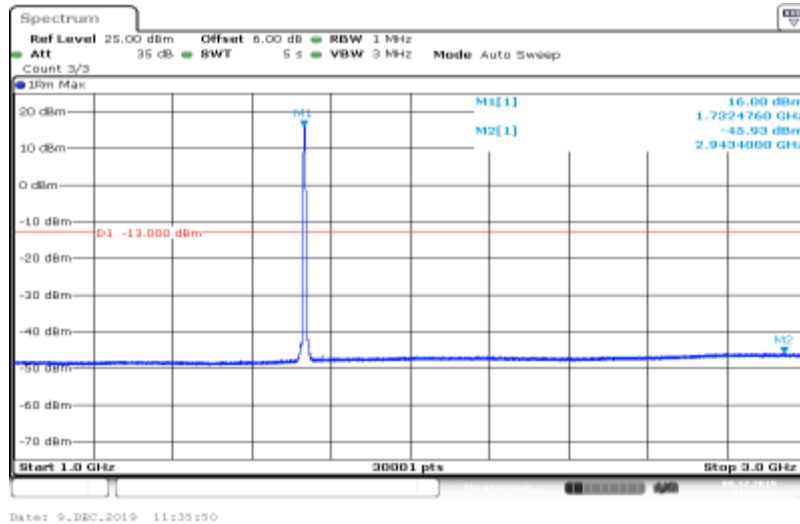
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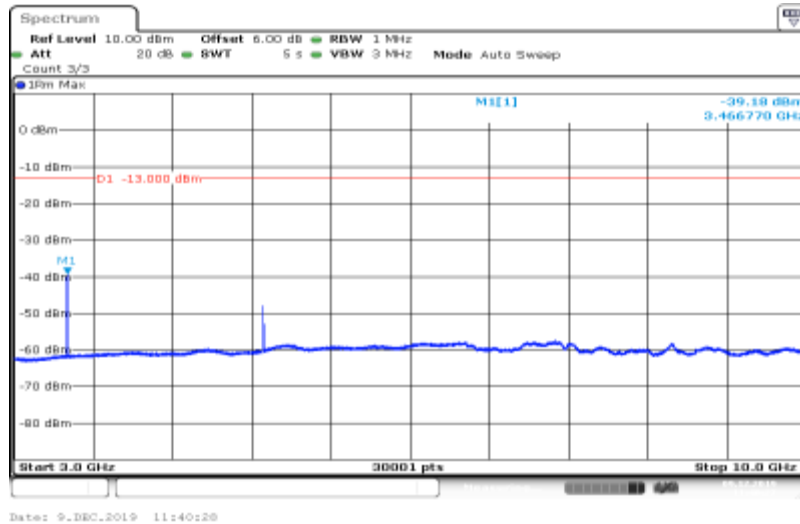
Tel.: (86)755-27521059

Fax: (86)755-27521011

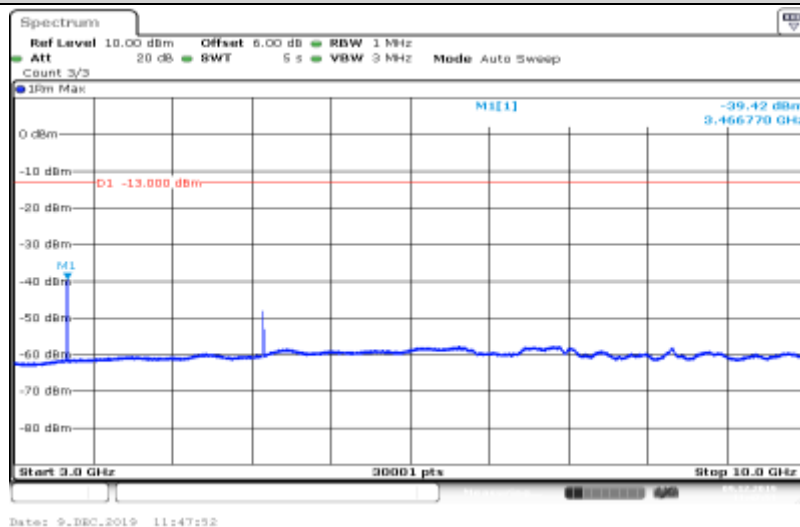
Http://www.sz-ctc.org.cn



Band IV-1413-HSUPA_Sub1-3000~10000



Band IV-1413-HSUPA_Sub2-3000~10000



Band IV-1413-HSUPA_Sub3-3000~10000

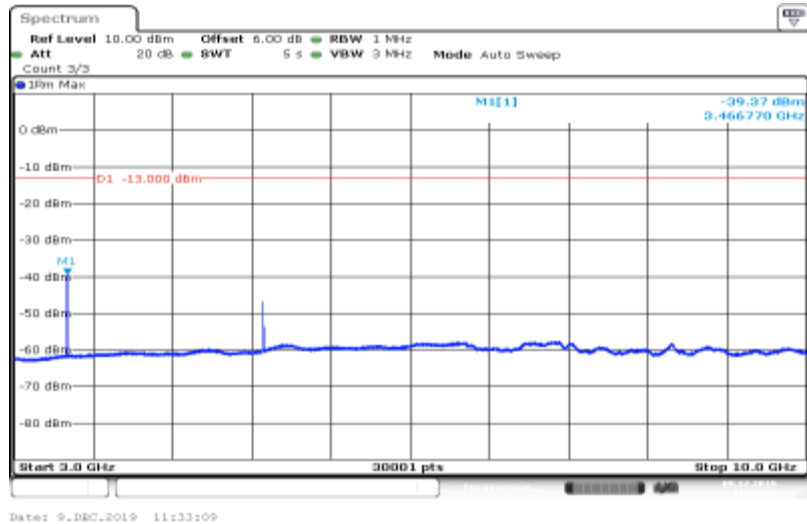
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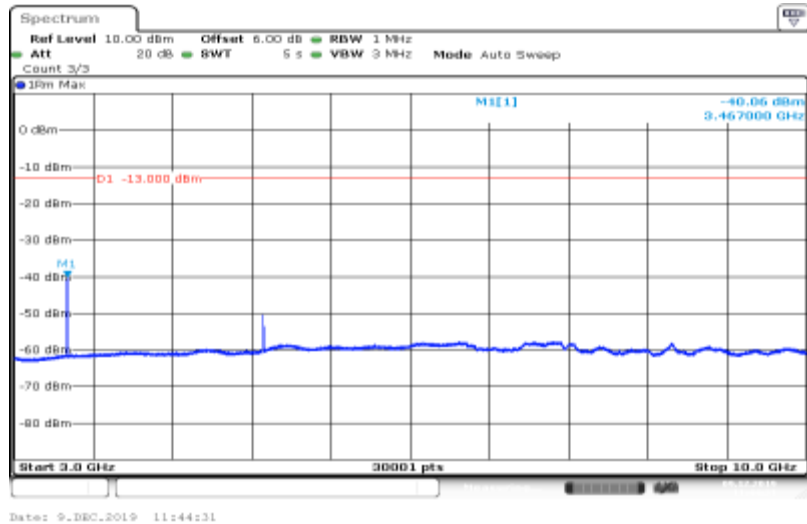
Tel.: (86)755-27521059

Fax: (86)755-27521011

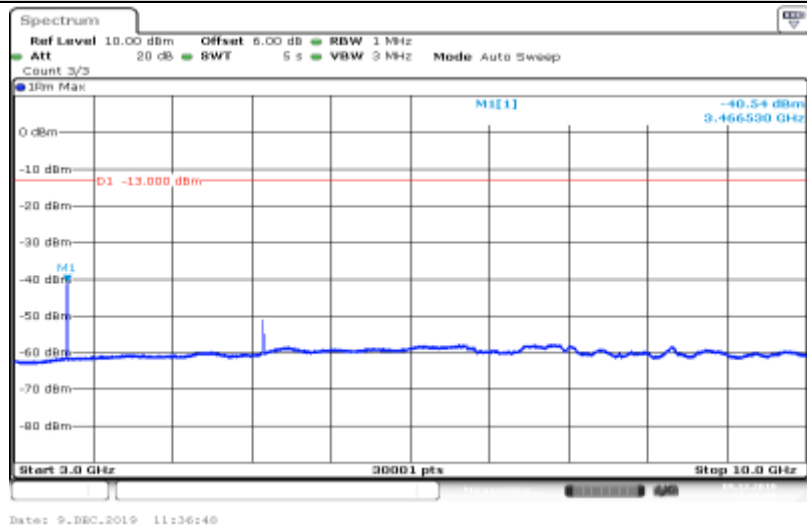
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Band IV-1413-HSUPA_Sub4-3000~10000



Band IV-1413-HSUPA_Sub5-3000~10000



Band IV-1413-HSUPA_Sub1-10000~18000

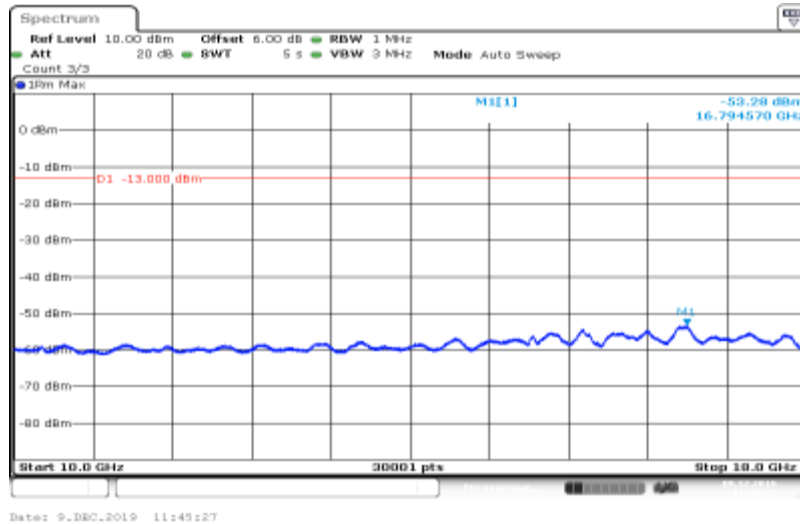
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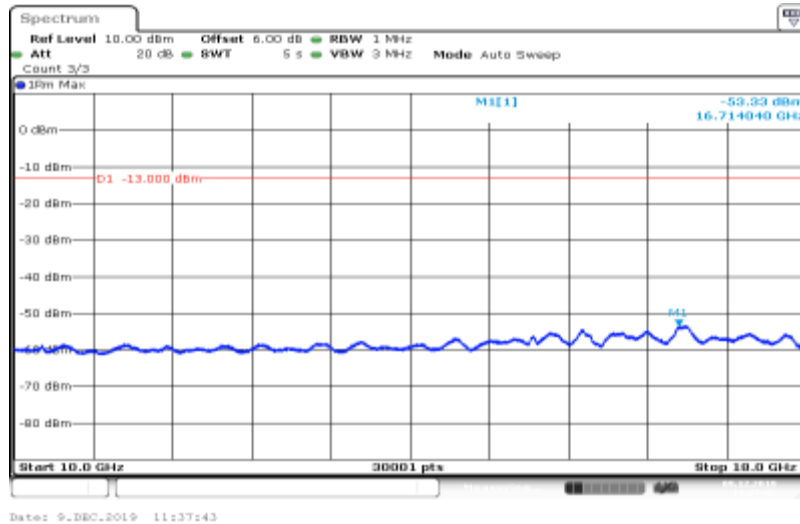
Tel.: (86)755-27521059

Fax: (86)755-27521011

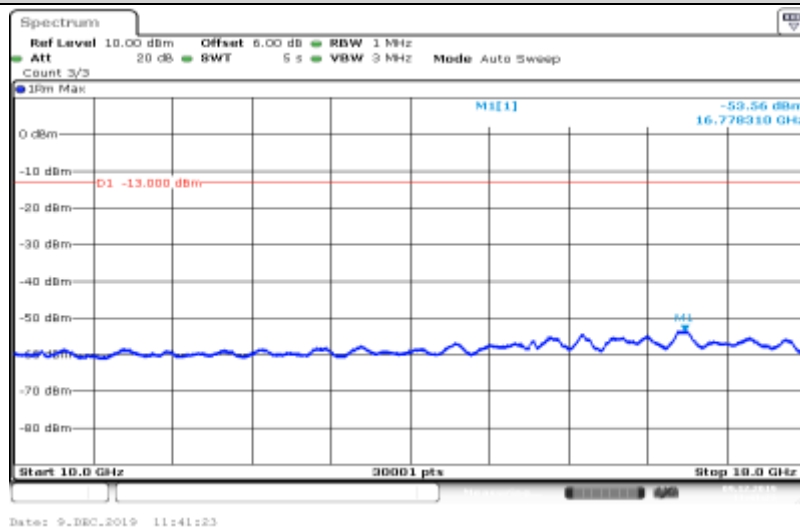
Http://www.sz-ctc.org.cn



Band IV-1413-HSUPA_Sub2-10000~18000



Band IV-1413-HSUPA_Sub3-10000~18000



Band IV-1413-HSUPA_Sub4-10000~18000

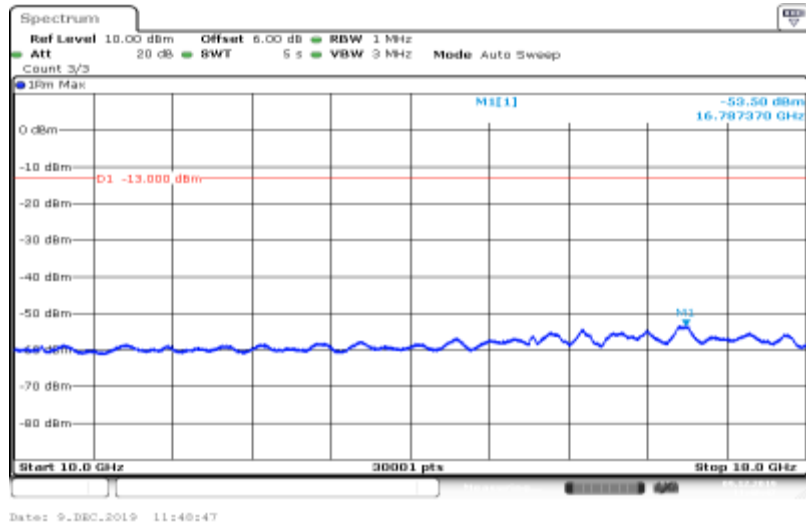
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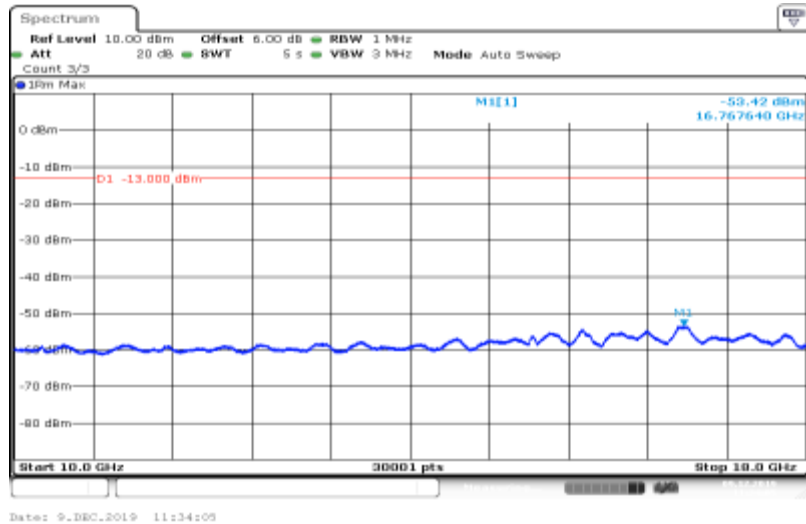
Tel.: (86)755-27521059

Fax: (86)755-27521011

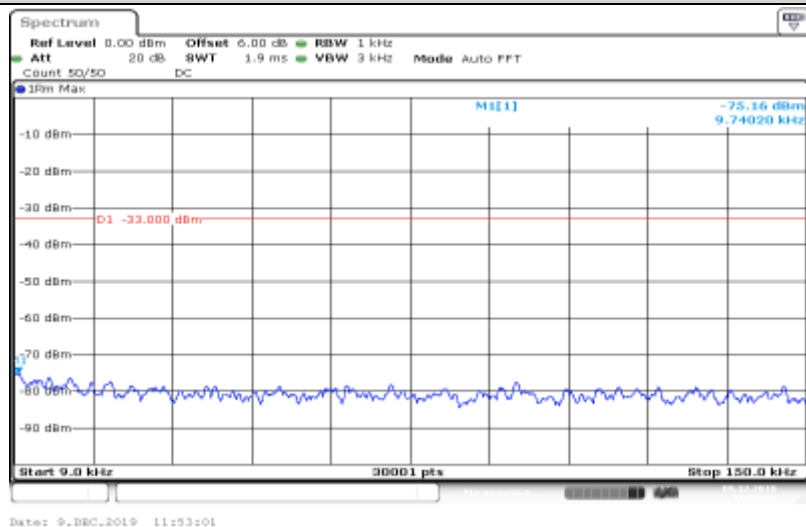
Http://www.sz-ctc.org.cn



Band IV-1413-HSUPA_Sub5-10000~18000



Band IV-1513-HSUPA_Sub1-0.009~0.15



Band IV-1513-HSUPA_Sub2-0.009~0.15

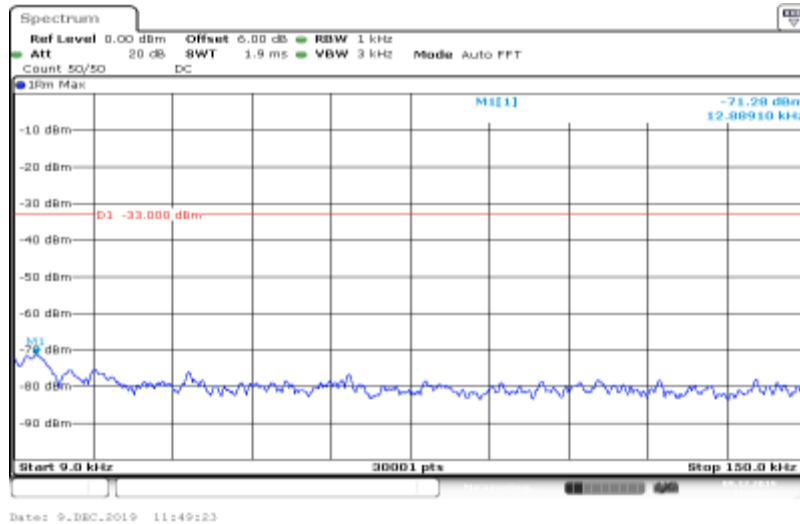
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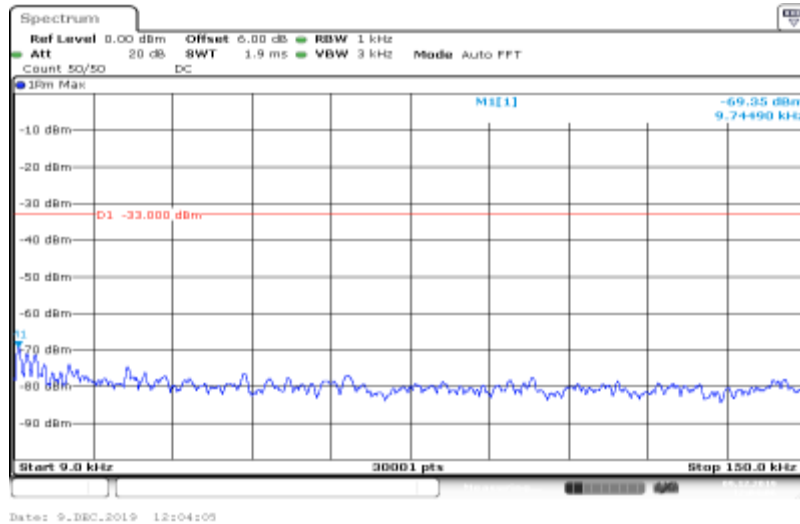
Tel.: (86)755-27521059

Fax: (86)755-27521011

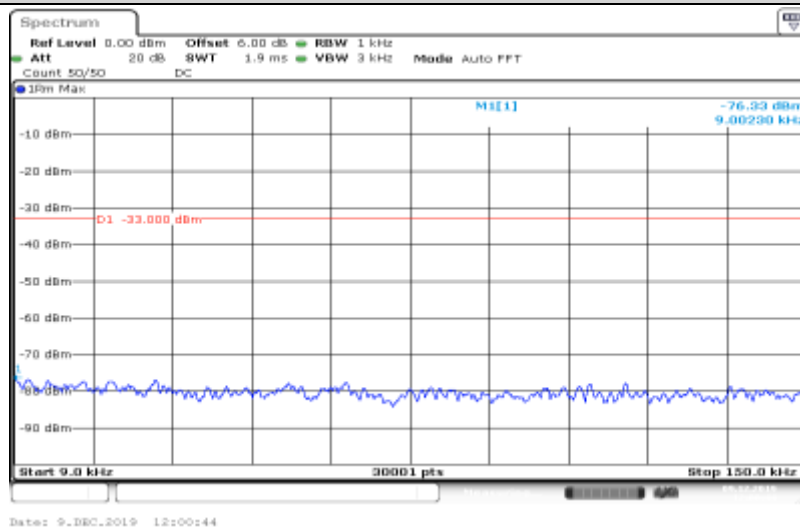
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Band IV-1513-HSUPA_Sub3-0.009~0.15



Band IV-1513-HSUPA_Sub4-0.009~0.15



Band IV-1513-HSUPA_Sub5-0.009~0.15

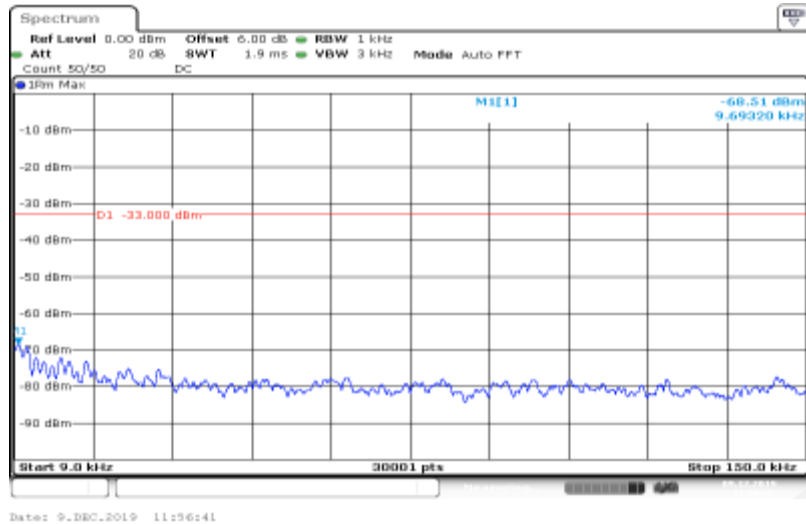
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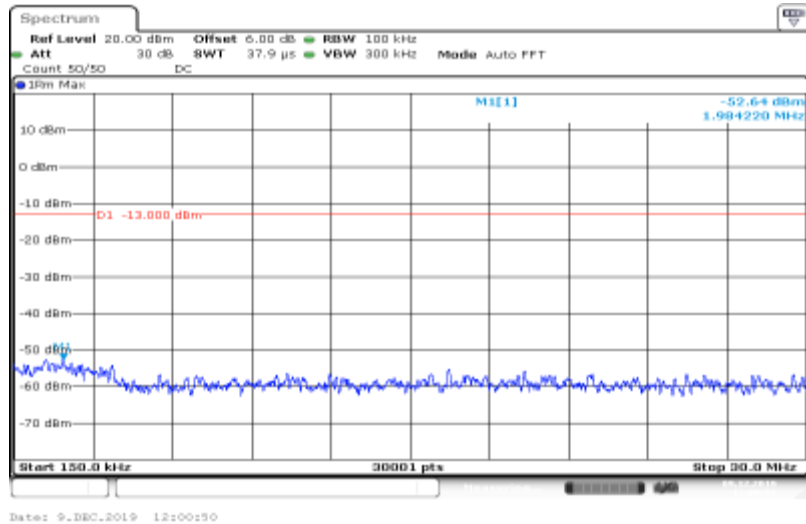
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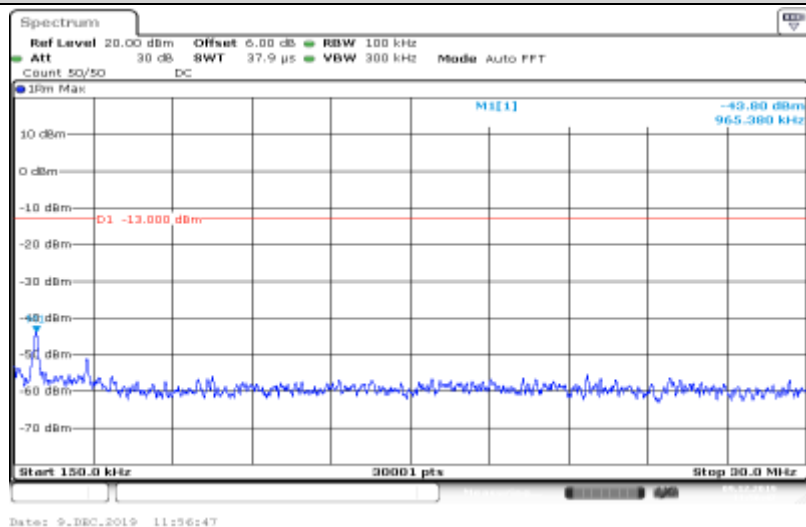
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Band IV-1513-HSUPA_Sub1-0.15~30



Band IV-1513-HSUPA_Sub2-0.15~30



Band IV-1513-HSUPA_Sub3-0.15~30

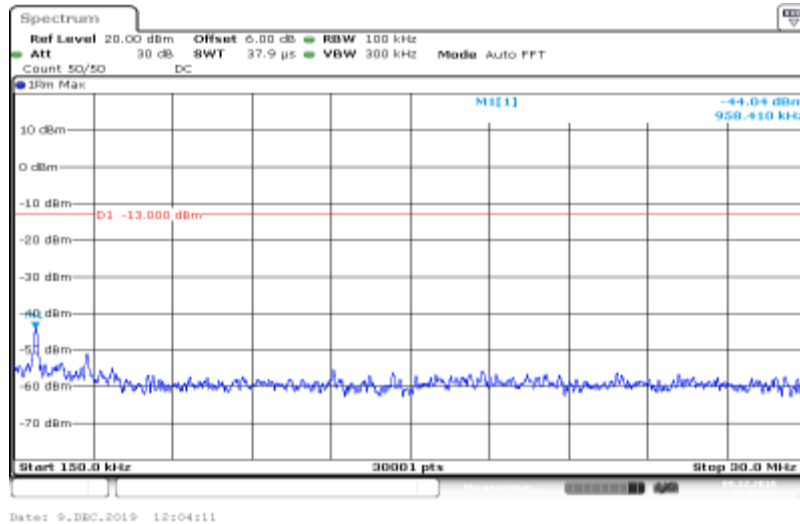
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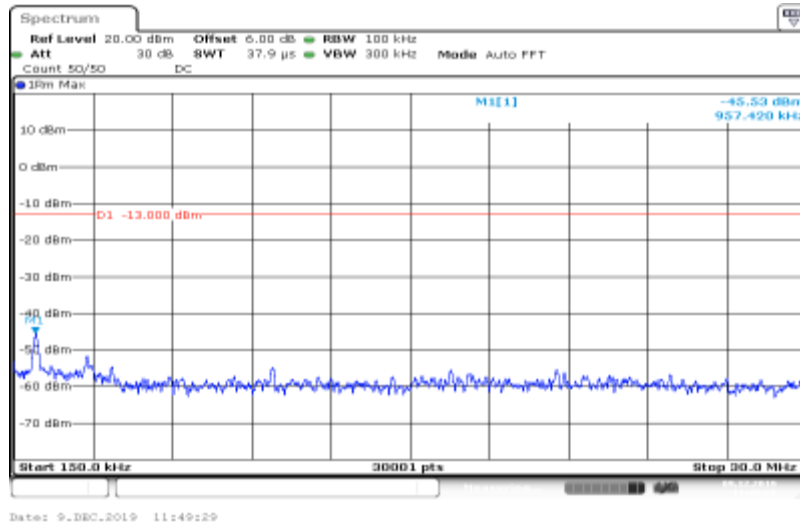
Tel.: (86)755-27521059

Fax: (86)755-27521011

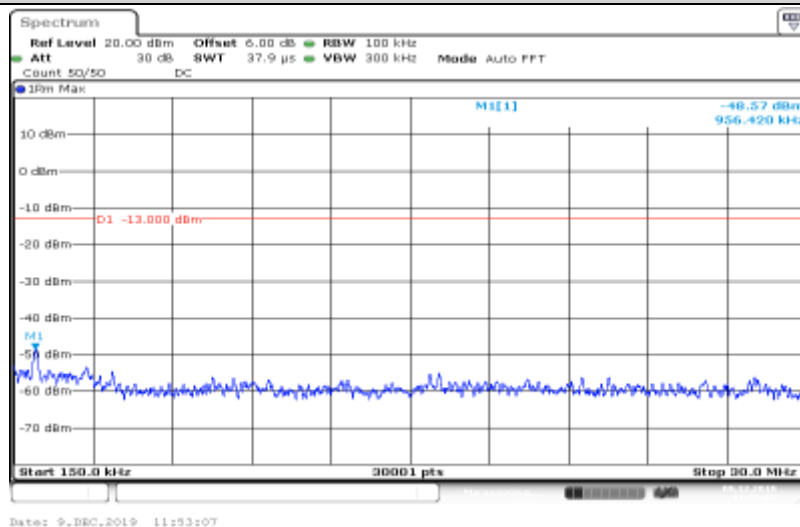
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Band IV-1513-HSUPA_Sub4-0.15~30



Band IV-1513-HSUPA_Sub5-0.15~30



Band IV-1513-HSUPA_Sub1-30~1000

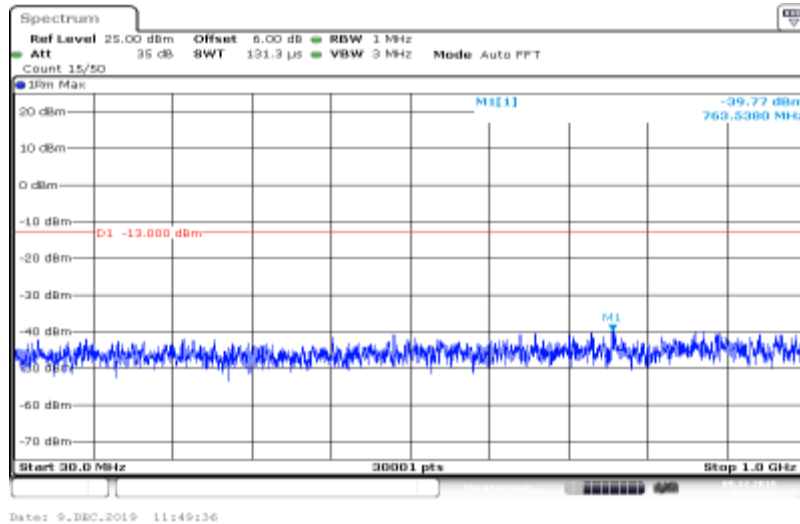
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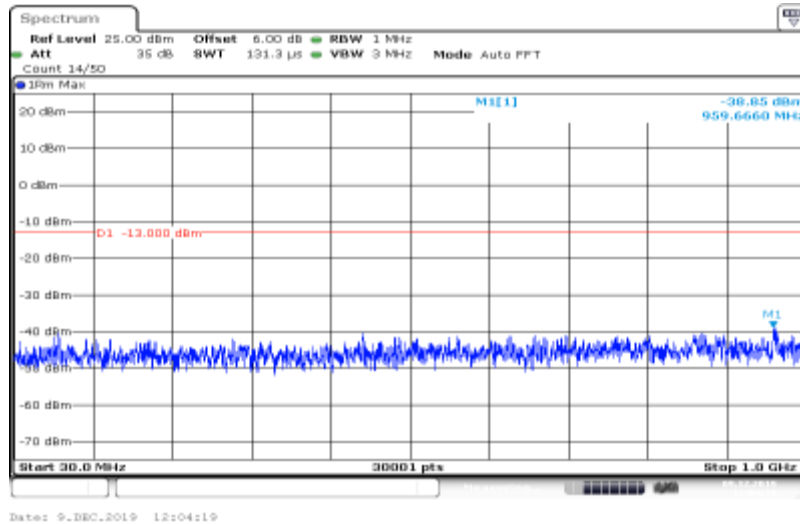
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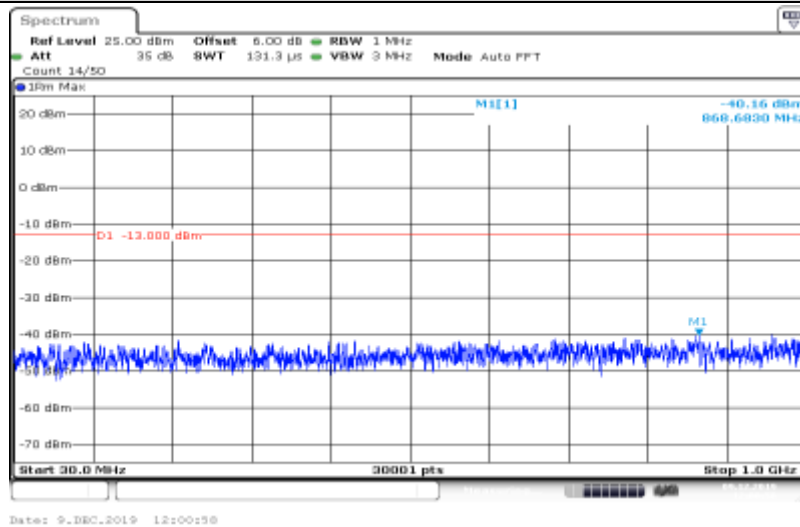
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Band IV-1513-HSUPA_Sub2-30~1000



Band IV-1513-HSUPA_Sub3-30~1000



Band IV-1513-HSUPA_Sub4-30~1000

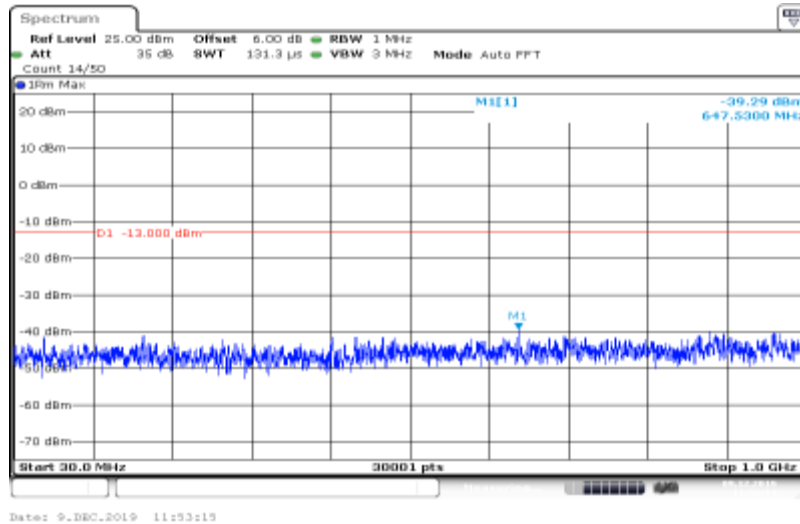
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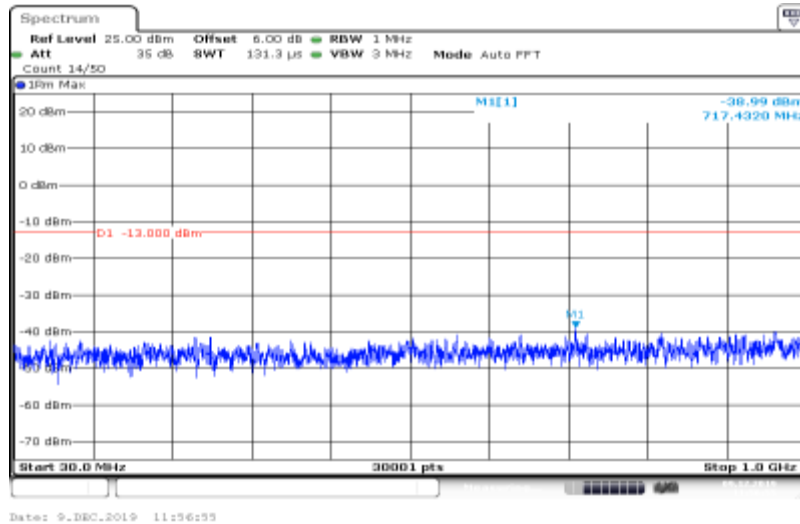
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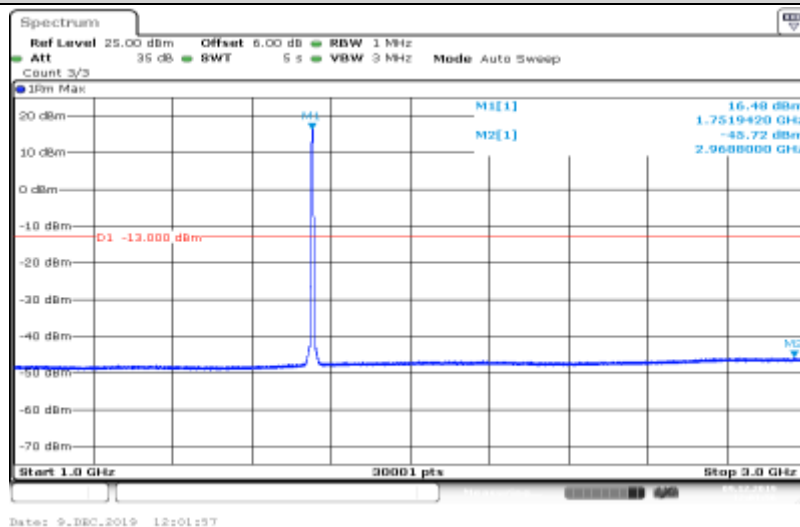
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Band IV-1513-HSUPA_Sub5-30~1000



Band IV-1513-HSUPA_Sub1-1000~3000



Band IV-1513-HSUPA_Sub2-1000~3000

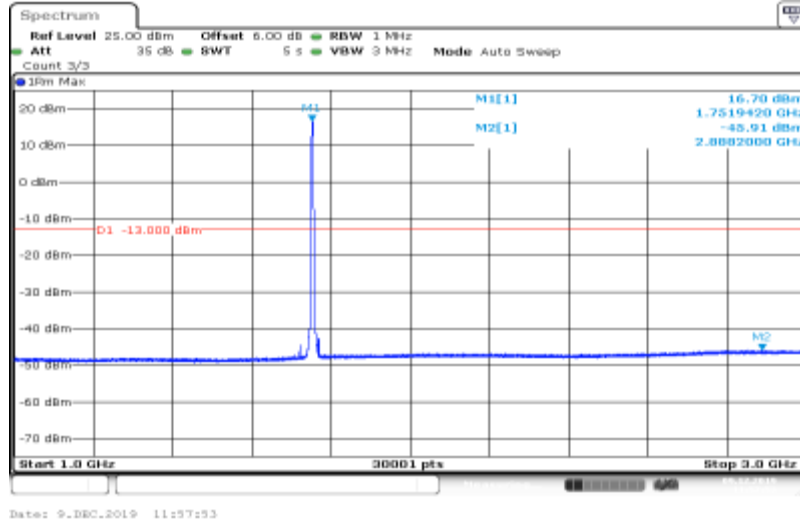
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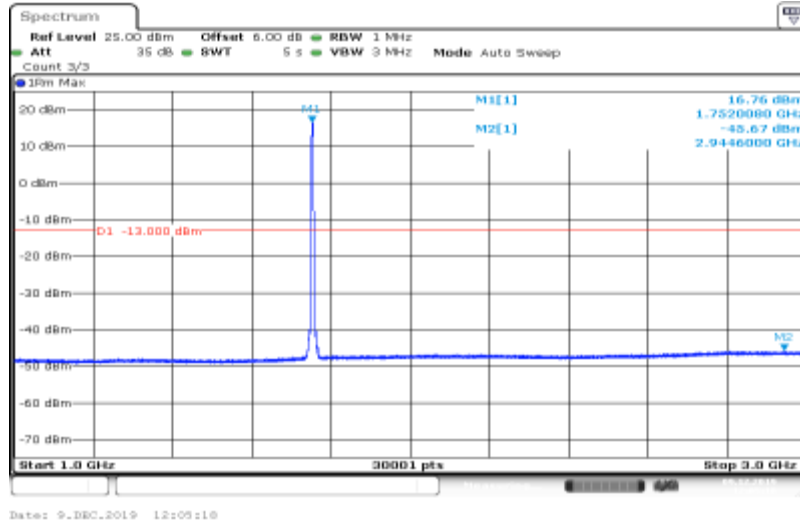
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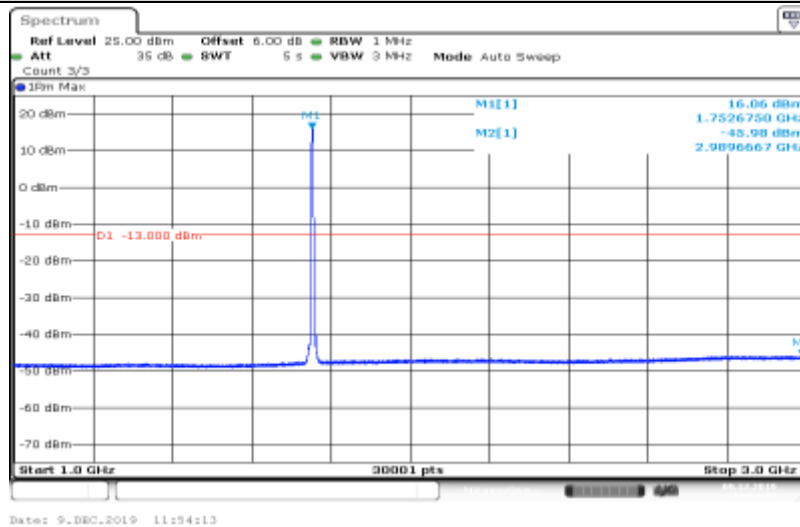
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Band IV-1513-HSUPA_Sub3-1000~3000



Band IV-1513-HSUPA_Sub4-1000~3000



Band IV-1513-HSUPA_Sub5-1000~3000

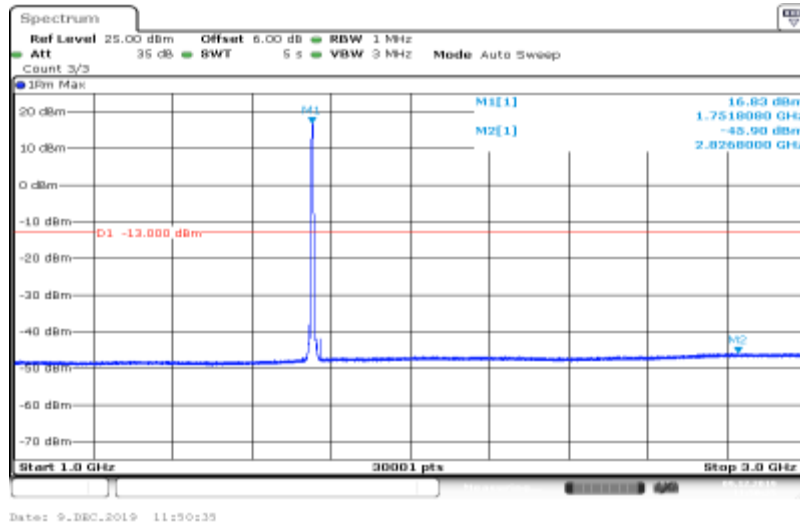
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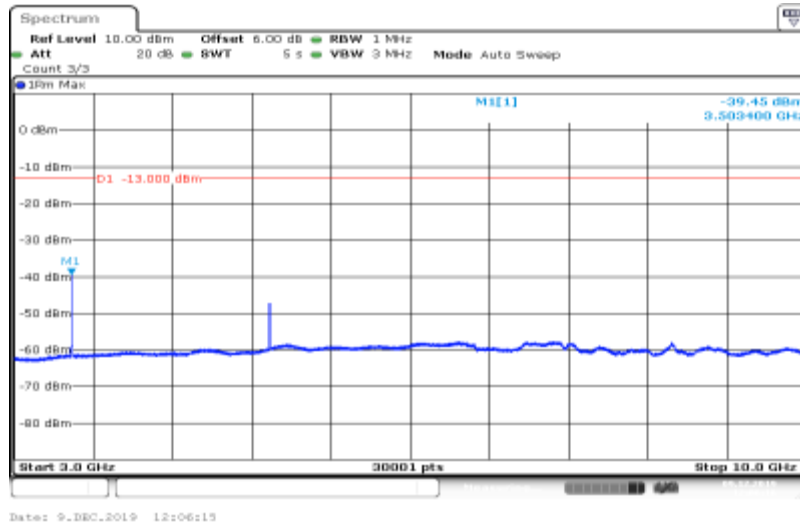
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Fax: (86)755-27521011

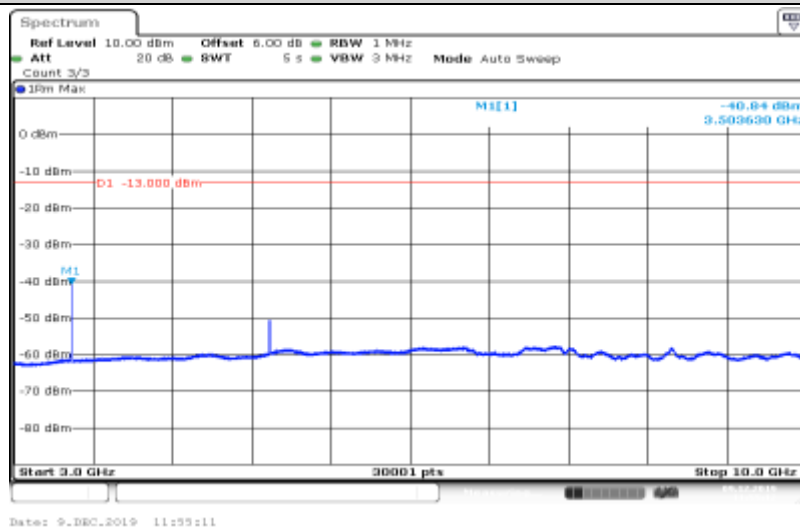
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Band IV-1513-HSUPA_Sub1-3000~10000



Band IV-1513-HSUPA_Sub2-3000~10000



Band IV-1513-HSUPA_Sub3-3000~10000

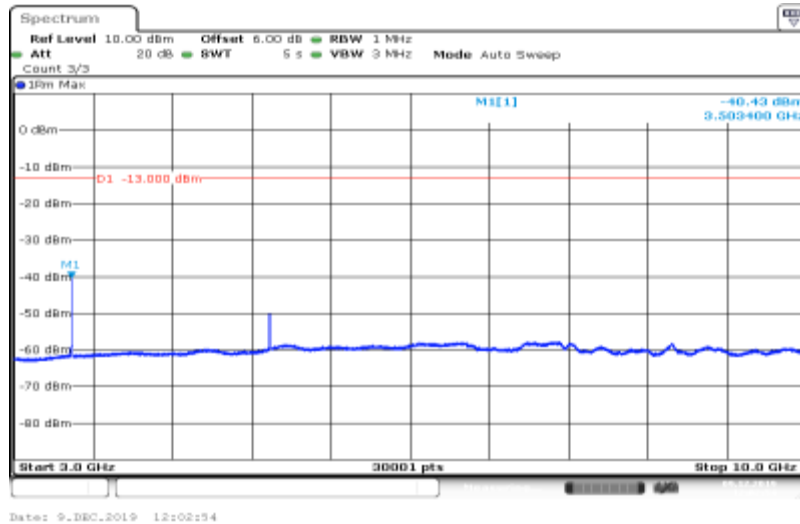
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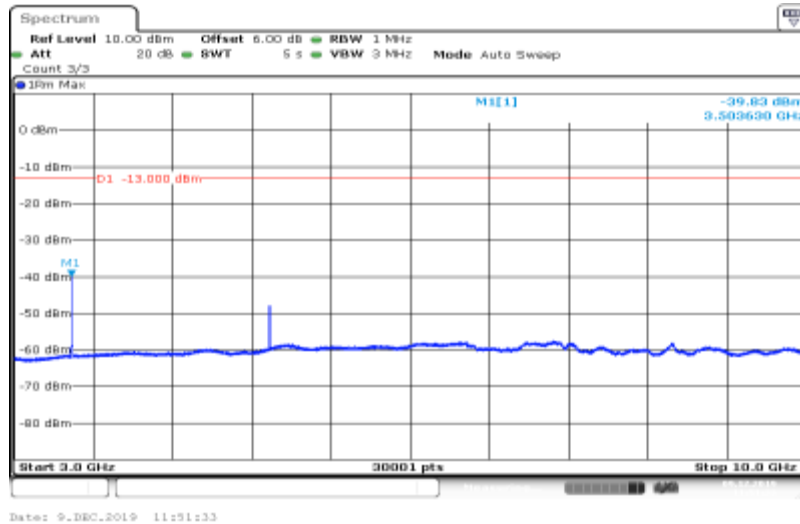
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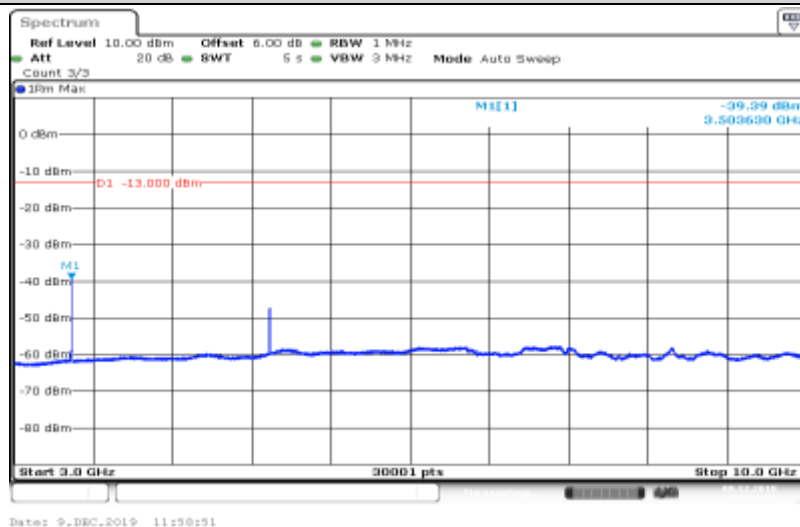
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Band IV-1513-HSUPA_Sub4-3000~10000



Band IV-1513-HSUPA_Sub5-3000~10000



Band IV-1513-HSUPA_Sub1-10000~18000

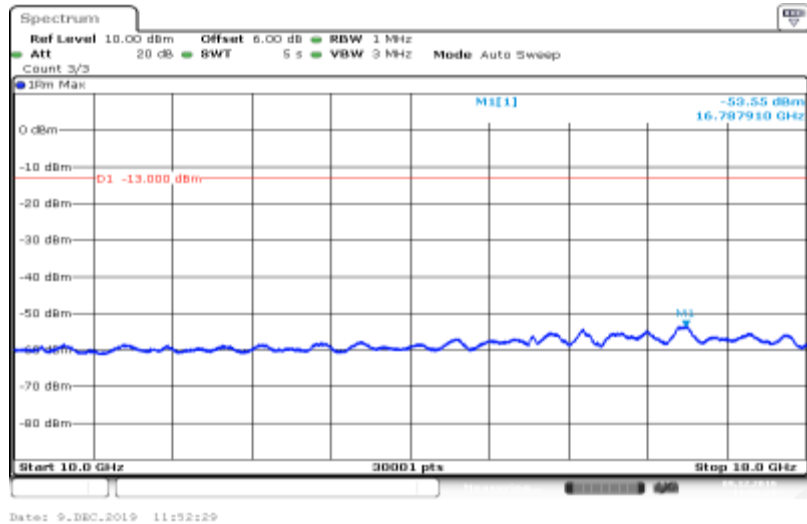
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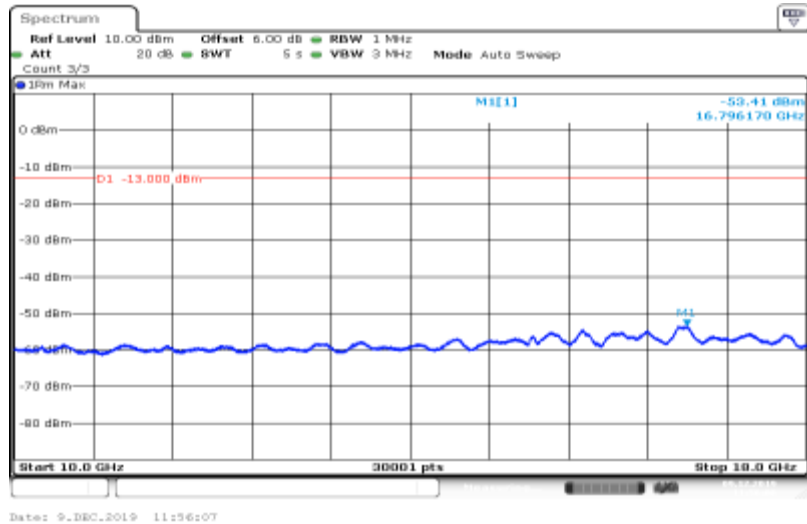
Tel.: (86)755-27521059

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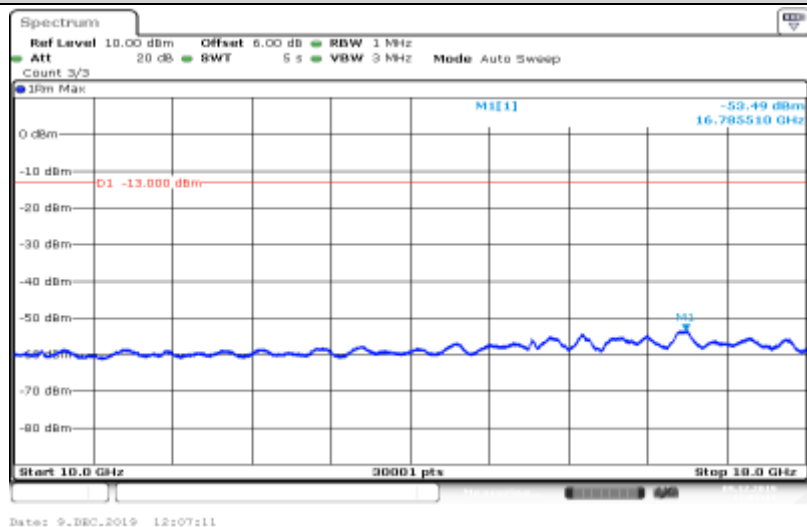
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Band IV-1513-HSUPA_Sub2-10000~18000



Band IV-1513-HSUPA_Sub3-10000~18000



Band IV-1513-HSUPA_Sub4-10000~18000

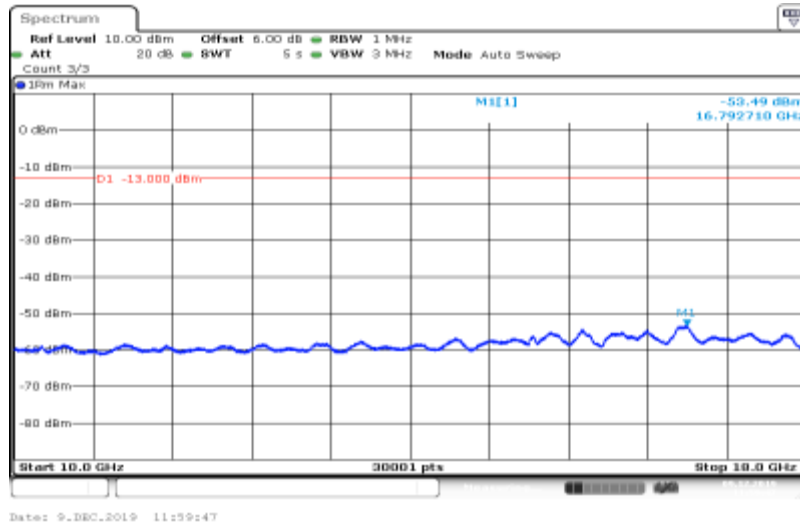
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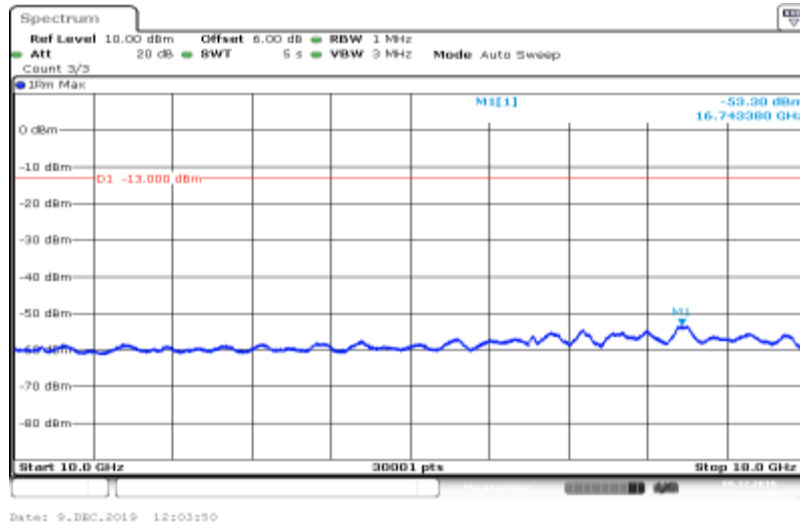
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Band IV-1513-HSUPA_Sub5-10000~18000



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Appendix F: Frequency Stability

Test Result

WCDMA:

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band IV	1312	VL	TN	13.74	0.008024	2.5	PASS
Band IV	1312	VN	TN	13.26	0.007744	2.5	PASS
Band IV	1312	VH	TN	12.72	0.007427	2.5	PASS
Band IV	1413	VL	TN	0.67	0.000388	2.5	PASS
Band IV	1413	VN	TN	-1.20	-0.000694	2.5	PASS
Band IV	1413	VH	TN	0.26	0.000149	2.5	PASS
Band IV	1513	VL	TN	-14.99	-0.008554	2.5	PASS
Band IV	1513	VN	TN	-13.35	-0.007619	2.5	PASS
Band IV	1513	VH	TN	-14.77	-0.008427	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band IV	1312	VN	-30	12.56	0.007335	2.5	PASS
Band IV	1312	VN	-20	13.16	0.007686	2.5	PASS
Band IV	1312	VN	-10	13.68	0.007990	2.5	PASS
Band IV	1312	VN	0	11.51	0.006721	2.5	PASS
Band IV	1312	VN	10	13.53	0.007903	2.5	PASS
Band IV	1312	VN	20	13.14	0.007673	2.5	PASS
Band IV	1312	VN	30	12.41	0.007247	2.5	PASS
Band IV	1312	VN	40	13.55	0.007911	2.5	PASS
Band IV	1312	VN	50	13.55	0.007911	2.5	PASS
Band IV	1413	VN	-30	-0.35	-0.000202	2.5	PASS
Band IV	1413	VN	-20	-0.70	-0.000405	2.5	PASS
Band IV	1413	VN	-10	-0.92	-0.000533	2.5	PASS
Band IV	1413	VN	0	-0.44	-0.000252	2.5	PASS
Band IV	1413	VN	10	-0.50	-0.000289	2.5	PASS
Band IV	1413	VN	20	-0.40	-0.000231	2.5	PASS
Band IV	1413	VN	30	-1.11	-0.000640	2.5	PASS
Band IV	1413	VN	40	0.20	0.000116	2.5	PASS
Band IV	1413	VN	50	0.25	0.000144	2.5	PASS
Band IV	1513	VN	-30	-12.88	-0.007350	2.5	PASS
Band IV	1513	VN	-20	-13.08	-0.007464	2.5	PASS

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Band IV	1513	VN	-10	-13.93	-0.007946	2.5	PASS
Band IV	1513	VN	0	-13.80	-0.007872	2.5	PASS
Band IV	1513	VN	10	-13.16	-0.007509	2.5	PASS
Band IV	1513	VN	20	-13.52	-0.007713	2.5	PASS
Band IV	1513	VN	30	-13.12	-0.007485	2.5	PASS
Band IV	1513	VN	40	-13.44	-0.007668	2.5	PASS
Band IV	1513	VN	50	-12.63	-0.007207	2.5	PASS

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For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : [yz.cnca.cn](http://www.cnca.cn)

**HSDPA:**

Band	Channel	SubTest	Voltage					Verdict
			Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
Band IV	1312	HSDPA_Sub1	VL	TN	129.56	0.075661	2.5	PASS
Band IV	1312	HSDPA_Sub1	VN	TN	-5.36	-0.003128	2.5	PASS
Band IV	1312	HSDPA_Sub1	VH	TN	104.60	0.061083	2.5	PASS
Band IV	1312	HSDPA_Sub2	VL	TN	-259.92	-0.151786	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	TN	-224.08	-0.130855	2.5	PASS
Band IV	1312	HSDPA_Sub2	VH	TN	-673.78	-0.393472	2.5	PASS
Band IV	1312	HSDPA_Sub3	VL	TN	966.16	0.564212	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	TN	1822.69	1.064408	2.5	PASS
Band IV	1312	HSDPA_Sub3	VH	TN	431.49	0.251981	2.5	PASS
Band IV	1312	HSDPA_Sub4	VL	TN	966.19	0.564217	2.5	PASS
Band IV	1312	HSDPA_Sub4	VN	TN	1822.72	1.064409	2.5	PASS
Band IV	1312	HSDPA_Sub4	VH	TN	431.53	0.251989	2.5	PASS
Band IV	1413	HSDPA_Sub1	VL	TN	71.56	0.041304	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	TN	90.03	0.051961	2.5	PASS
Band IV	1413	HSDPA_Sub1	VH	TN	46.88	0.027055	2.5	PASS
Band IV	1413	HSDPA_Sub2	VL	TN	222.34	0.128325	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	TN	105.13	0.060679	2.5	PASS
Band IV	1413	HSDPA_Sub2	VH	TN	93.28	0.053836	2.5	PASS
Band IV	1413	HSDPA_Sub3	VL	TN	-214.22	-0.123640	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	TN	-138.93	-0.080187	2.5	PASS
Band IV	1413	HSDPA_Sub3	VH	TN	559.52	0.322939	2.5	PASS
Band IV	1413	HSDPA_Sub4	VL	TN	258.36	0.149118	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	TN	323.55	0.186741	2.5	PASS
Band IV	1413	HSDPA_Sub4	VH	TN	307.36	0.177397	2.5	PASS
Band IV	1513	HSDPA_Sub1	VL	TN	-56.56	-0.032275	2.5	PASS
Band IV	1513	HSDPA_Sub1	VN	TN	105.10	0.059969	2.5	PASS
Band IV	1513	HSDPA_Sub1	VH	TN	-37.83	-0.021583	2.5	PASS
Band IV	1513	HSDPA_Sub2	VL	TN	126.25	0.072037	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	TN	143.08	0.081640	2.5	PASS
Band IV	1513	HSDPA_Sub2	VH	TN	179.67	0.102518	2.5	PASS
Band IV	1513	HSDPA_Sub3	VL	TN	-214.28	-0.123643	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	TN	-138.95	-0.080189	2.5	PASS
Band IV	1513	HSDPA_Sub3	VH	TN	559.57	0.322941	2.5	PASS
Band IV	1513	HSDPA_Sub4	VL	TN	258.37	0.149122	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	TN	323.58	0.186745	2.5	PASS
Band IV	1513	HSDPA_Sub4	VH	TN	307.39	0.177399	2.5	PASS

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Temperature								
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band IV	1312	HSDPA_Sub1	VN	-30	34.97	0.020423	2.5	PASS
Band IV	1312	HSDPA_Sub1	VN	-20	72.72	0.042469	2.5	PASS
Band IV	1312	HSDPA_Sub1	VN	-10	129.36	0.075545	2.5	PASS
Band IV	1312	HSDPA_Sub1	VN	0	95.63	0.055844	2.5	PASS
Band IV	1312	HSDPA_Sub1	VN	10	83.69	0.048876	2.5	PASS
Band IV	1312	HSDPA_Sub1	VN	20	166.31	0.097118	2.5	PASS
Band IV	1312	HSDPA_Sub1	VN	30	91.00	0.053144	2.5	PASS
Band IV	1312	HSDPA_Sub1	VN	40	124.79	0.072872	2.5	PASS
Band IV	1312	HSDPA_Sub1	VN	50	133.44	0.077925	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	-30	-525.88	-0.307101	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	-20	-519.64	-0.303456	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	-10	-612.26	-0.357544	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	0	-726.88	-0.424482	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	10	-538.18	-0.314283	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	20	-497.13	-0.290313	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	30	-178.51	-0.104247	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	40	-488.30	-0.285153	2.5	PASS
Band IV	1312	HSDPA_Sub2	VN	50	-248.93	-0.145370	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	-30	401.83	0.234656	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	-20	1803.57	1.053243	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	-10	1914.44	1.117989	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	0	1242.42	0.725541	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	10	961.82	0.561681	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	20	-117.49	-0.068613	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	30	909.64	0.531206	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	40	1888.98	1.103117	2.5	PASS
Band IV	1312	HSDPA_Sub3	VN	50	2187.64	1.277527	2.5	PASS
Band IV	1312	HSDPA_Sub4	VN	-30	10.18	0.005944	2.5	PASS
Band IV	1312	HSDPA_Sub4	VN	-20	13.36	0.007802	2.5	PASS
Band IV	1312	HSDPA_Sub4	VN	-10	12.95	0.007560	2.5	PASS
Band IV	1312	HSDPA_Sub4	VN	0	12.29	0.007176	2.5	PASS
Band IV	1312	HSDPA_Sub4	VN	10	9.52	0.005559	2.5	PASS
Band IV	1312	HSDPA_Sub4	VN	20	10.79	0.006299	2.5	PASS
Band IV	1312	HSDPA_Sub4	VN	30	11.74	0.006854	2.5	PASS

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Band IV	1312	HSDPA_Sub4	VN	40	11.11	0.006487	2.5	PASS
Band IV	1312	HSDPA_Sub4	VN	50	10.80	0.006307	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	-30	43.43	0.025064	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	-20	17.44	0.010066	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	-10	12.16	0.007019	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	0	-56.26	-0.032471	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	10	38.97	0.022493	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	20	60.81	0.035095	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	30	0.23	0.000132	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	40	46.10	0.026606	2.5	PASS
Band IV	1413	HSDPA_Sub1	VN	50	52.29	0.030181	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	-30	160.90	0.092868	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	-20	80.02	0.046183	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	-10	208.92	0.120584	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	0	242.71	0.140082	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	10	233.60	0.134824	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	20	257.95	0.148880	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	30	243.90	0.140769	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	40	192.90	0.111336	2.5	PASS
Band IV	1413	HSDPA_Sub2	VN	50	311.63	0.179863	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	-30	590.06	0.340562	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	-20	90.64	0.052313	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	-10	68.02	0.039261	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	0	251.77	0.145313	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	10	694.35	0.400757	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	20	-95.72	-0.055246	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	30	393.59	0.227164	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	40	-83.79	-0.048359	2.5	PASS
Band IV	1413	HSDPA_Sub3	VN	50	877.66	0.506554	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	-30	266.97	0.154085	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	-20	235.44	0.135890	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	-10	216.35	0.124873	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	0	273.01	0.157573	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	10	252.96	0.146000	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	20	288.41	0.166459	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	30	229.39	0.132394	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	40	236.16	0.136304	2.5	PASS
Band IV	1413	HSDPA_Sub4	VN	50	257.72	0.148748	2.5	PASS
Band IV	1513	HSDPA_Sub1	VN	-30	86.29	0.049235	2.5	PASS

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Band IV	1513	HSDPA_Sub1	VN	-20	82.44	0.047041	2.5	PASS
Band IV	1513	HSDPA_Sub1	VN	-10	31.08	0.017735	2.5	PASS
Band IV	1513	HSDPA_Sub1	VN	0	-71.55	-0.040824	2.5	PASS
Band IV	1513	HSDPA_Sub1	VN	10	32.81	0.018719	2.5	PASS
Band IV	1513	HSDPA_Sub1	VN	20	-29.82	-0.017012	2.5	PASS
Band IV	1513	HSDPA_Sub1	VN	30	72.69	0.041477	2.5	PASS
Band IV	1513	HSDPA_Sub1	VN	40	13.35	0.007618	2.5	PASS
Band IV	1513	HSDPA_Sub1	VN	50	-38.02	-0.021696	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	-30	302.19	0.172421	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	-20	184.17	0.105086	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	-10	184.11	0.105051	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	0	76.77	0.043802	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	10	197.34	0.112600	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	20	221.76	0.126530	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	30	162.35	0.092636	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	40	112.35	0.064105	2.5	PASS
Band IV	1513	HSDPA_Sub2	VN	50	303.45	0.173144	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	-30	-12.45	-0.007105	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	-20	-9.61	-0.005481	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	-10	-12.85	-0.007334	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	0	-8.80	-0.005020	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	10	-10.04	-0.005730	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	20	-10.51	-0.005995	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	30	-10.86	-0.006199	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	40	-11.16	-0.006367	2.5	PASS
Band IV	1513	HSDPA_Sub3	VN	50	-13.65	-0.007791	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	-30	-10.83	-0.006179	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	-20	-11.84	-0.006754	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	-10	-10.06	-0.005738	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	0	-10.58	-0.006036	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	10	-13.92	-0.007942	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	20	-7.80	-0.004448	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	30	-12.52	-0.007146	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	40	-10.09	-0.005758	2.5	PASS
Band IV	1513	HSDPA_Sub4	VN	50	-12.67	-0.007232	2.5	PASS

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**HSUPA:**

Voltage								
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band IV	1312	HSUPA_Sub1	VL	TN	91.03	0.053162	2.5	PASS
Band IV	1312	HSUPA_Sub1	VN	TN	-70.97	-0.041444	2.5	PASS
Band IV	1312	HSUPA_Sub1	VH	TN	32.87	0.019194	2.5	PASS
Band IV	1312	HSUPA_Sub2	VL	TN	-33.51	-0.019568	2.5	PASS
Band IV	1312	HSUPA_Sub2	VN	TN	14.42	0.008421	2.5	PASS
Band IV	1312	HSUPA_Sub2	VH	TN	-74.10	-0.043271	2.5	PASS
Band IV	1312	HSUPA_Sub3	VL	TN	131.38	0.076722	2.5	PASS
Band IV	1312	HSUPA_Sub3	VN	TN	874.76	0.510836	2.5	PASS
Band IV	1312	HSUPA_Sub3	VH	TN	255.94	0.149460	2.5	PASS
Band IV	1312	HSUPA_Sub4	VL	TN	12.50	0.007298	2.5	PASS
Band IV	1312	HSUPA_Sub4	VN	TN	21.70	0.012671	2.5	PASS
Band IV	1312	HSUPA_Sub4	VH	TN	88.00	0.051388	2.5	PASS
Band IV	1312	HSUPA_Sub5	VL	TN	-200.87	-0.117301	2.5	PASS
Band IV	1312	HSUPA_Sub5	VN	TN	-98.56	-0.057555	2.5	PASS
Band IV	1312	HSUPA_Sub5	VH	TN	15.46	0.009027	2.5	PASS
Band IV	1413	HSUPA_Sub1	VL	TN	-23.04	-0.013298	2.5	PASS
Band IV	1413	HSUPA_Sub1	VN	TN	14.88	0.008587	2.5	PASS
Band IV	1413	HSUPA_Sub1	VH	TN	9.29	0.005363	2.5	PASS
Band IV	1413	HSUPA_Sub2	VL	TN	-37.16	-0.021445	2.5	PASS
Band IV	1413	HSUPA_Sub2	VN	TN	-76.43	-0.044114	2.5	PASS
Band IV	1413	HSUPA_Sub2	VH	TN	-5.16	-0.002977	2.5	PASS
Band IV	1413	HSUPA_Sub3	VL	TN	68.76	0.039684	2.5	PASS
Band IV	1413	HSUPA_Sub3	VN	TN	382.00	0.220480	2.5	PASS
Band IV	1413	HSUPA_Sub3	VH	TN	870.70	0.502538	2.5	PASS
Band IV	1413	HSUPA_Sub4	VL	TN	59.46	0.034320	2.5	PASS
Band IV	1413	HSUPA_Sub4	VN	TN	-12.50	-0.007213	2.5	PASS
Band IV	1413	HSUPA_Sub4	VH	TN	68.86	0.039745	2.5	PASS
Band IV	1413	HSUPA_Sub5	VL	TN	101.76	0.058733	2.5	PASS
Band IV	1413	HSUPA_Sub5	VN	TN	17.62	0.010172	2.5	PASS
Band IV	1413	HSUPA_Sub5	VH	TN	268.48	0.154957	2.5	PASS
Band IV	1513	HSUPA_Sub1	VL	TN	-168.32	-0.096040	2.5	PASS
Band IV	1513	HSUPA_Sub1	VN	TN	-42.30	-0.024134	2.5	PASS
Band IV	1513	HSUPA_Sub1	VH	TN	-6.07	-0.003465	2.5	PASS
Band IV	1513	HSUPA_Sub2	VL	TN	-3.94	-0.002246	2.5	PASS
Band IV	1513	HSUPA_Sub2	VN	TN	-48.61	-0.027739	2.5	PASS
Band IV	1513	HSUPA_Sub2	VH	TN	-26.17	-0.014931	2.5	PASS

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Band IV	1513	HSUPA_Sub3	VL	TN	-496.54	-0.283314	2.5	PASS
Band IV	1513	HSUPA_Sub3	VN	TN	-461.32	-0.263220	2.5	PASS
Band IV	1513	HSUPA_Sub3	VH	TN	-486.89	-0.277812	2.5	PASS
Band IV	1513	HSUPA_Sub4	VL	TN	111.60	0.063678	2.5	PASS
Band IV	1513	HSUPA_Sub4	VN	TN	-5.04	-0.002873	2.5	PASS
Band IV	1513	HSUPA_Sub4	VH	TN	70.39	0.040162	2.5	PASS
Band IV	1513	HSUPA_Sub5	VL	TN	-143.75	-0.082023	2.5	PASS
Band IV	1513	HSUPA_Sub5	VN	TN	-197.80	-0.112861	2.5	PASS
Band IV	1513	HSUPA_Sub5	VH	TN	-19.59	-0.011179	2.5	PASS

Temperature								
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band IV	1312	HSUPA_Sub1	VN	-30	4.70	0.002745	2.5	PASS
Band IV	1312	HSUPA_Sub1	VN	-20	33.37	0.019488	2.5	PASS
Band IV	1312	HSUPA_Sub1	VN	-10	58.76	0.034315	2.5	PASS
Band IV	1312	HSUPA_Sub1	VN	0	-60.07	-0.035082	2.5	PASS
Band IV	1312	HSUPA_Sub1	VN	10	182.28	0.106448	2.5	PASS
Band IV	1312	HSUPA_Sub1	VN	20	9.54	0.005569	2.5	PASS
Band IV	1312	HSUPA_Sub2	VN	-30	22.60	0.013197	2.5	PASS
Band IV	1312	HSUPA_Sub2	VN	-20	-24.60	-0.014364	2.5	PASS
Band IV	1312	HSUPA_Sub2	VN	-10	-6.96	-0.004063	2.5	PASS
Band IV	1312	HSUPA_Sub2	VN	0	657.56	0.384000	2.5	PASS
Band IV	1312	HSUPA_Sub2	VN	10	526.66	0.307555	2.5	PASS
Band IV	1312	HSUPA_Sub2	VN	20	-25.22	-0.014729	2.5	PASS
Band IV	1312	HSUPA_Sub3	VN	-30	581.96	0.339848	2.5	PASS
Band IV	1312	HSUPA_Sub3	VN	-20	399.89	0.233524	2.5	PASS
Band IV	1312	HSUPA_Sub3	VN	-10	389.76	0.227608	2.5	PASS
Band IV	1312	HSUPA_Sub3	VN	0	-100.10	-0.058455	2.5	PASS
Band IV	1312	HSUPA_Sub3	VN	10	621.49	0.362935	2.5	PASS
Band IV	1312	HSUPA_Sub3	VN	20	754.99	0.440896	2.5	PASS
Band IV	1312	HSUPA_Sub4	VN	-30	19.41	0.011334	2.5	PASS
Band IV	1312	HSUPA_Sub4	VN	-20	-27.73	-0.016191	2.5	PASS
Band IV	1312	HSUPA_Sub4	VN	-10	54.50	0.031829	2.5	PASS
Band IV	1312	HSUPA_Sub4	VN	0	115.22	0.067285	2.5	PASS
Band IV	1312	HSUPA_Sub4	VN	10	30.82	0.018000	2.5	PASS
Band IV	1312	HSUPA_Sub4	VN	20	-32.96	-0.019247	2.5	PASS
Band IV	1312	HSUPA_Sub5	VN	-30	89.10	0.052030	2.5	PASS
Band IV	1312	HSUPA_Sub5	VN	-20	230.62	0.134677	2.5	PASS
Band IV	1312	HSUPA_Sub5	VN	-10	-70.45	-0.041141	2.5	PASS

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Band IV	1312	HSUPA_Sub5	VN	0	77.18	0.045071	2.5	PASS
Band IV	1312	HSUPA_Sub5	VN	10	-88.71	-0.051807	2.5	PASS
Band IV	1312	HSUPA_Sub5	VN	20	-134.22	-0.078379	2.5	PASS
Band IV	1413	HSUPA_Sub1	VN	-30	82.57	0.047654	2.5	PASS
Band IV	1413	HSUPA_Sub1	VN	-20	-32.09	-0.018521	2.5	PASS
Band IV	1413	HSUPA_Sub1	VN	-10	-50.22	-0.028983	2.5	PASS
Band IV	1413	HSUPA_Sub1	VN	0	-24.23	-0.013985	2.5	PASS
Band IV	1413	HSUPA_Sub1	VN	10	-34.29	-0.019789	2.5	PASS
Band IV	1413	HSUPA_Sub1	VN	20	47.94	0.027671	2.5	PASS
Band IV	1413	HSUPA_Sub2	VN	-30	-21.38	-0.012338	2.5	PASS
Band IV	1413	HSUPA_Sub2	VN	-20	-35.02	-0.020212	2.5	PASS
Band IV	1413	HSUPA_Sub2	VN	-10	0.78	0.000449	2.5	PASS
Band IV	1413	HSUPA_Sub2	VN	0	4.71	0.002721	2.5	PASS
Band IV	1413	HSUPA_Sub2	VN	10	-29.71	-0.017147	2.5	PASS
Band IV	1413	HSUPA_Sub2	VN	20	-11.43	-0.006596	2.5	PASS
Band IV	1413	HSUPA_Sub3	VN	-30	-164.06	-0.094692	2.5	PASS
Band IV	1413	HSUPA_Sub3	VN	-20	446.44	0.257672	2.5	PASS
Band IV	1413	HSUPA_Sub3	VN	-10	85.39	0.049283	2.5	PASS
Band IV	1413	HSUPA_Sub3	VN	0	229.39	0.132394	2.5	PASS
Band IV	1413	HSUPA_Sub3	VN	10	113.33	0.065409	2.5	PASS
Band IV	1413	HSUPA_Sub3	VN	20	-6.61	-0.003813	2.5	PASS
Band IV	1413	HSUPA_Sub4	VN	-30	-65.87	-0.038019	2.5	PASS
Band IV	1413	HSUPA_Sub4	VN	-20	0.85	0.000493	2.5	PASS
Band IV	1413	HSUPA_Sub4	VN	-10	127.37	0.073511	2.5	PASS
Band IV	1413	HSUPA_Sub4	VN	0	0.27	0.000159	2.5	PASS
Band IV	1413	HSUPA_Sub4	VN	10	42.21	0.024360	2.5	PASS
Band IV	1413	HSUPA_Sub4	VN	20	80.90	0.046694	2.5	PASS
Band IV	1413	HSUPA_Sub5	VN	-30	78.37	0.045232	2.5	PASS
Band IV	1413	HSUPA_Sub5	VN	-20	-139.72	-0.080645	2.5	PASS
Band IV	1413	HSUPA_Sub5	VN	-10	216.08	0.124714	2.5	PASS
Band IV	1413	HSUPA_Sub5	VN	0	25.09	0.014479	2.5	PASS
Band IV	1413	HSUPA_Sub5	VN	10	168.64	0.097334	2.5	PASS
Band IV	1413	HSUPA_Sub5	VN	20	9.38	0.005416	2.5	PASS
Band IV	1513	HSUPA_Sub1	VN	-30	6.96	0.003970	2.5	PASS
Band IV	1513	HSUPA_Sub1	VN	-20	-16.05	-0.009159	2.5	PASS
Band IV	1513	HSUPA_Sub1	VN	-10	-108.76	-0.062059	2.5	PASS
Band IV	1513	HSUPA_Sub1	VN	0	-40.28	-0.022985	2.5	PASS
Band IV	1513	HSUPA_Sub1	VN	10	-23.45	-0.013382	2.5	PASS
Band IV	1513	HSUPA_Sub1	VN	20	13.29	0.007583	2.5	PASS

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Band IV	1513	HSUPA_Sub2	VN	-30	-18.69	-0.010665	2.5	PASS
Band IV	1513	HSUPA_Sub2	VN	-20	-74.71	-0.042626	2.5	PASS
Band IV	1513	HSUPA_Sub2	VN	-10	-21.55	-0.012293	2.5	PASS
Band IV	1513	HSUPA_Sub2	VN	0	136.34	0.077791	2.5	PASS
Band IV	1513	HSUPA_Sub2	VN	10	-25.45	-0.014522	2.5	PASS
Band IV	1513	HSUPA_Sub2	VN	20	0.55	0.000313	2.5	PASS
Band IV	1513	HSUPA_Sub3	VN	-30	-402.80	-0.229831	2.5	PASS
Band IV	1513	HSUPA_Sub3	VN	-20	-253.23	-0.144491	2.5	PASS
Band IV	1513	HSUPA_Sub3	VN	-10	-212.25	-0.121106	2.5	PASS
Band IV	1513	HSUPA_Sub3	VN	0	-46.66	-0.026624	2.5	PASS
Band IV	1513	HSUPA_Sub3	VN	10	253.05	0.144387	2.5	PASS
Band IV	1513	HSUPA_Sub3	VN	20	282.71	0.161312	2.5	PASS
Band IV	1513	HSUPA_Sub4	VN	-30	-15.91	-0.009081	2.5	PASS
Band IV	1513	HSUPA_Sub4	VN	-20	-43.85	-0.025022	2.5	PASS
Band IV	1513	HSUPA_Sub4	VN	-10	-61.11	-0.034869	2.5	PASS
Band IV	1513	HSUPA_Sub4	VN	0	-112.72	-0.064314	2.5	PASS
Band IV	1513	HSUPA_Sub4	VN	10	-64.53	-0.036819	2.5	PASS
Band IV	1513	HSUPA_Sub4	VN	20	69.58	0.039701	2.5	PASS
Band IV	1513	HSUPA_Sub5	VN	-30	78.37	0.044716	2.5	PASS
Band IV	1513	HSUPA_Sub5	VN	-20	-13.28	-0.007575	2.5	PASS
Band IV	1513	HSUPA_Sub5	VN	-10	-180.33	-0.102892	2.5	PASS
Band IV	1513	HSUPA_Sub5	VN	0	177.09	0.101046	2.5	PASS
Band IV	1513	HSUPA_Sub5	VN	10	-16.68	-0.009516	2.5	PASS
Band IV	1513	HSUPA_Sub5	VN	20	-69.00	-0.039370	2.5	PASS

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