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# Appendix B.2

WCDMA Band II&IV&V



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#### **Effective (Isotropic) Radiated Power Output Data**

#### **Test Result**

#### ANT0:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
BandII	9262	24.17	20.37	33.01	PASS
BandII	9400	24.21	20.41	33.01	PASS
BandII	9538	23.92	20.12	33.01	PASS
BandIV	1312	24.33	22.53	30.00	PASS
BandIV	1413	24.35	22.55	30.00	PASS
BandIV	1513	24.52	22.72	30.00	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
BandV	4132	24.04	14.69	38.45	PASS
BandV	4182	23.85	14.5	38.45	PASS
BandV	4233	23.68	14.33	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	2.36	13	PASS
BandII	9400	2.58	13	PASS
BandII	9538	2	13	PASS
BandIV	1312	2.68	13	PASS
BandIV	1413	2.8	13	PASS
BandIV	1513	2.64	13	PASS
BandV	4132	2.84	13	PASS
BandV	4182	2.62	13	PASS
BandV	4233	2.76	13	PASS



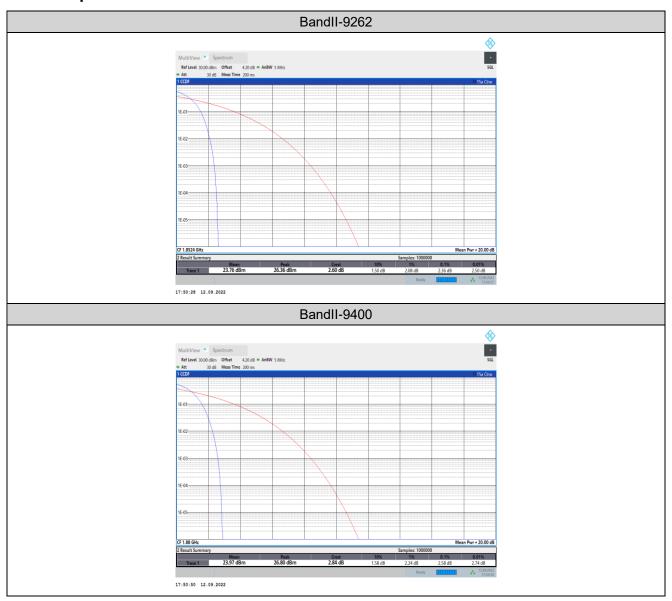
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#### **Test Graphs**





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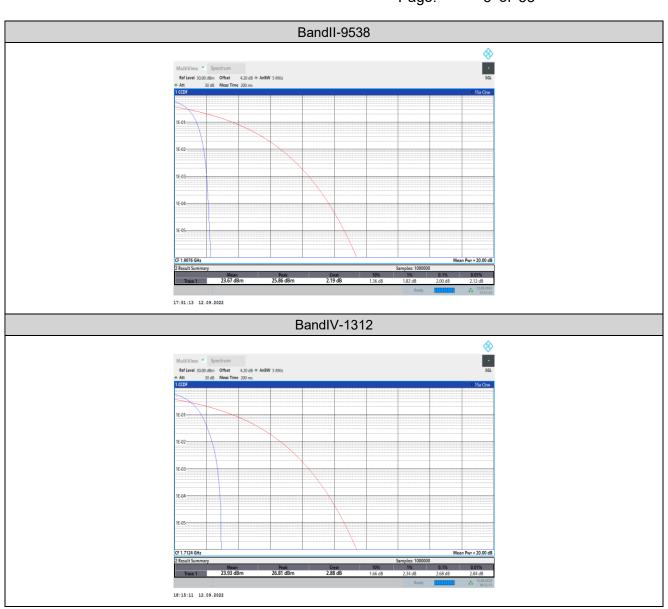
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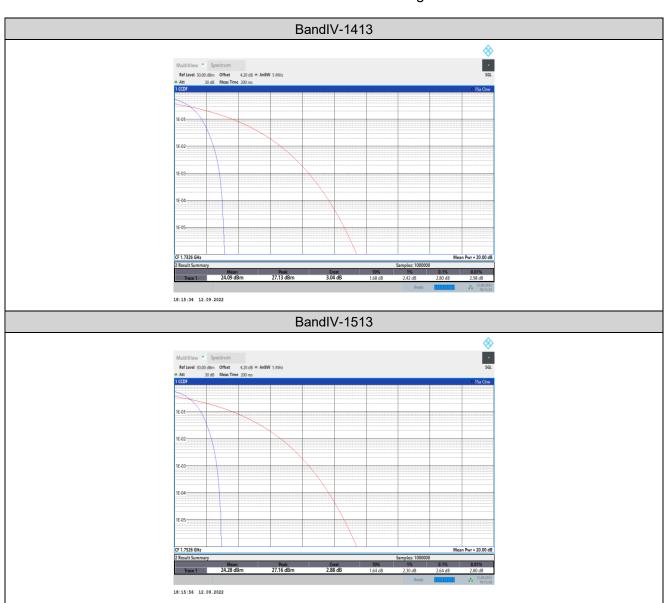
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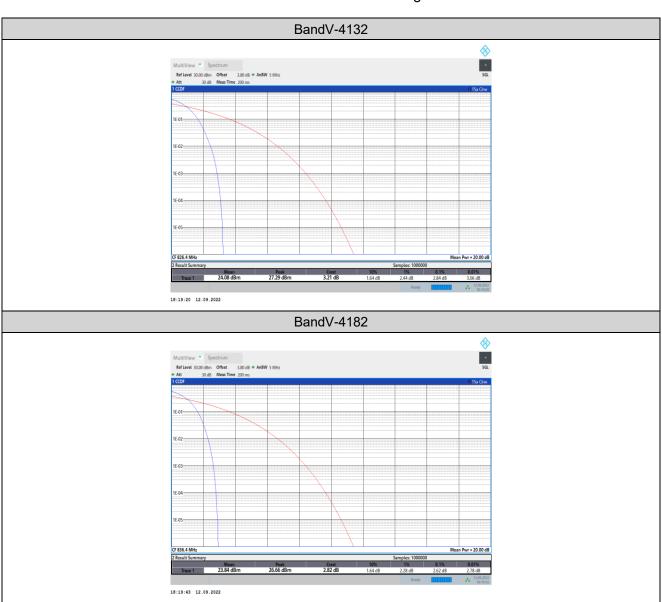
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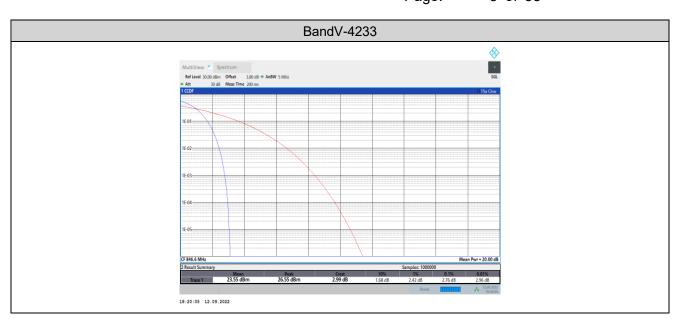
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#### **Modulation Characteristics**

#### **Test Result**

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



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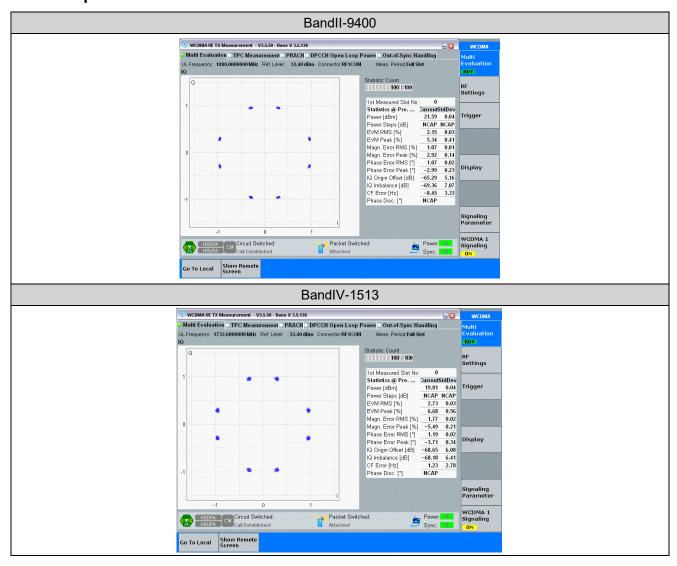


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#### **Test Graphs**





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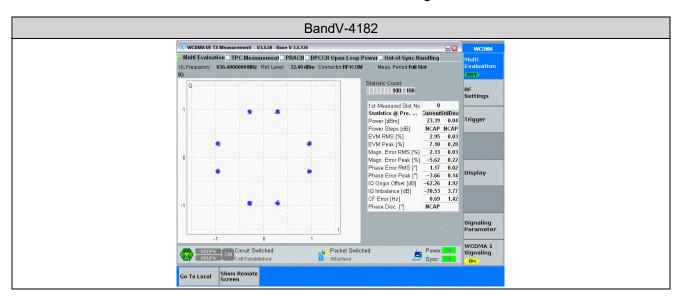
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#### 26dB Bandwidth and Occupied Bandwidth

#### **Test Result**

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
BandII	9262	4.185	4.77		PASS
BandII	9400	4.182	4.76		PASS
BandII	9538	4.245	4.91		PASS
BandIV	1312	4.15	4.72		PASS
BandIV	1413	4.147	4.71		PASS
BandIV	1513	4.151	4.73		PASS
BandV	4132	4.139	4.72		PASS
BandV	4182	4.15	4.72		PASS
BandV	4233	4.123	4.71		PASS



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#### **Test Graphs**





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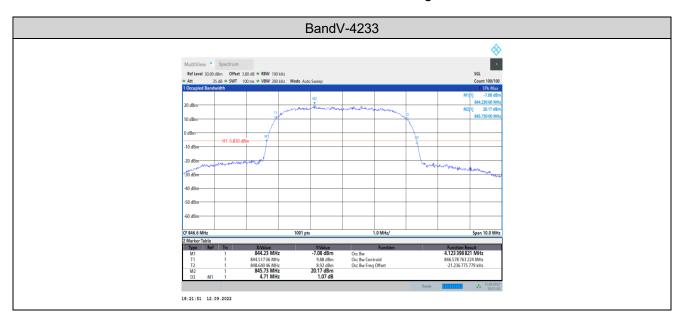
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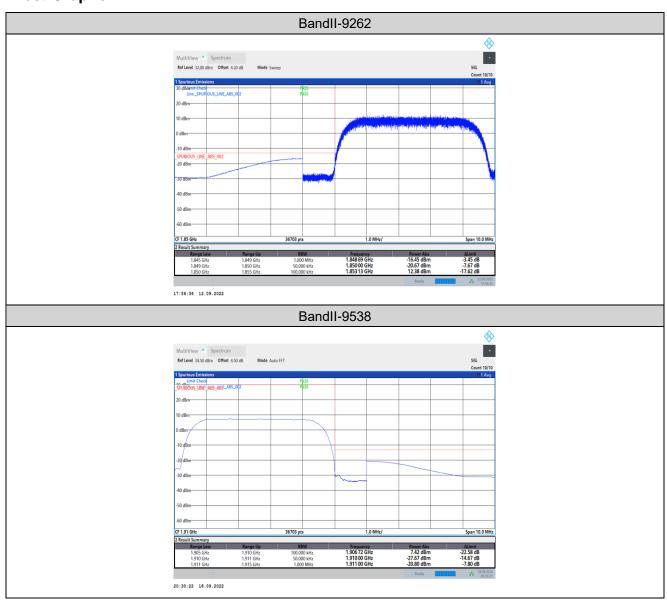
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#### **Band Edge**

#### **Test Graphs**





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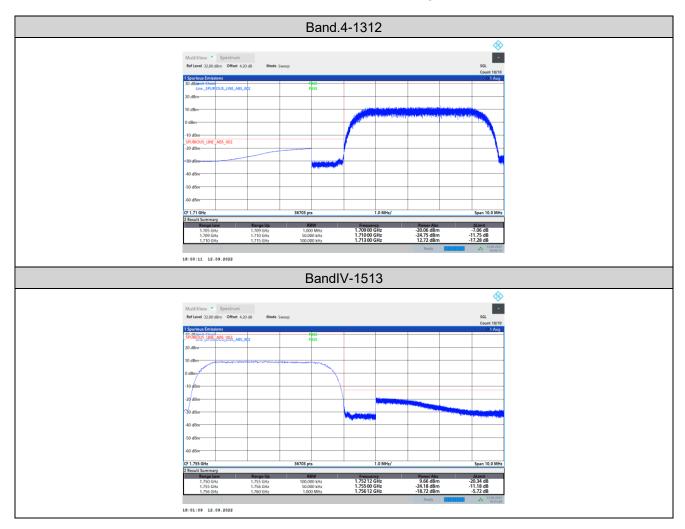
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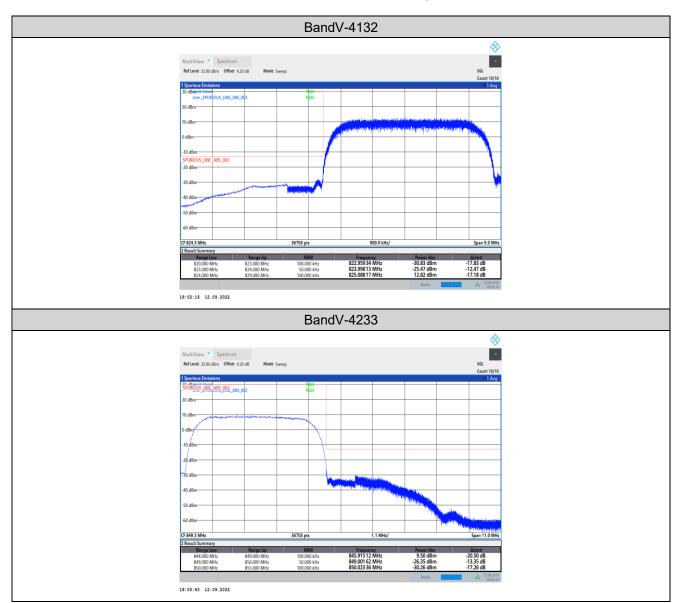
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#### **Conducted SpuriousEmission**

#### **Test Graphs**





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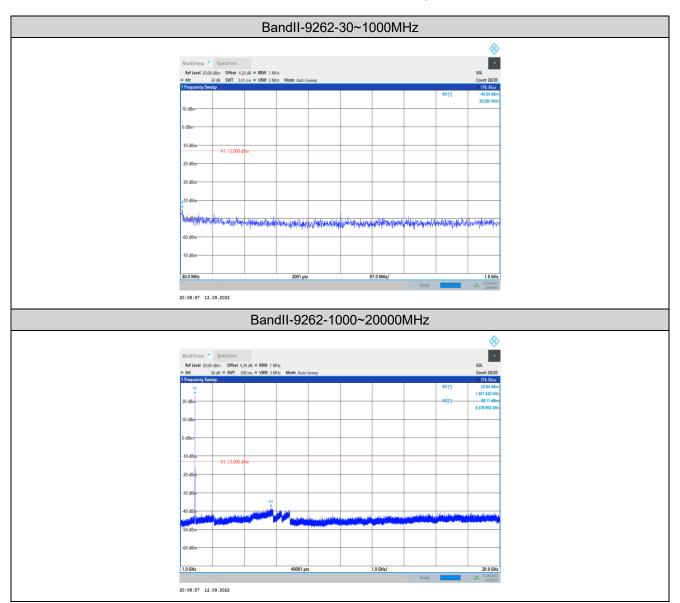
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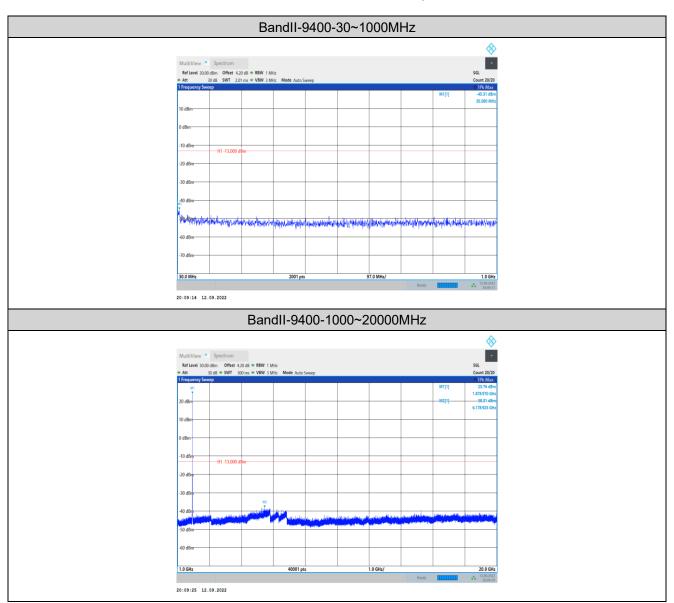
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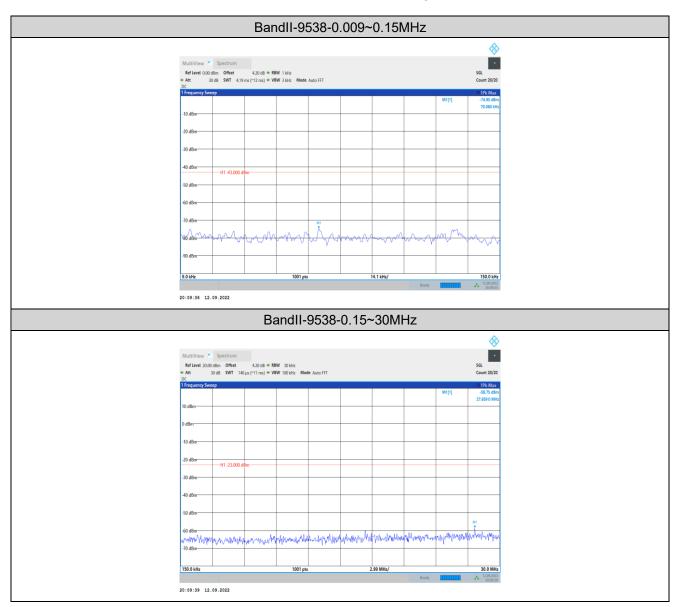
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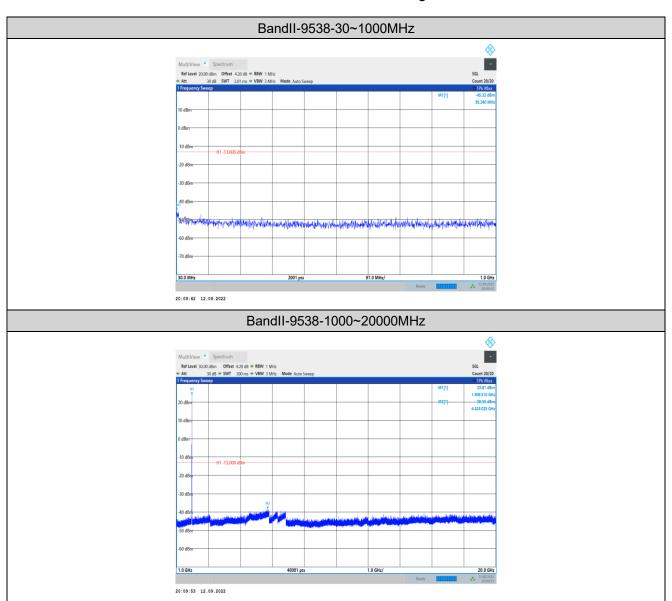
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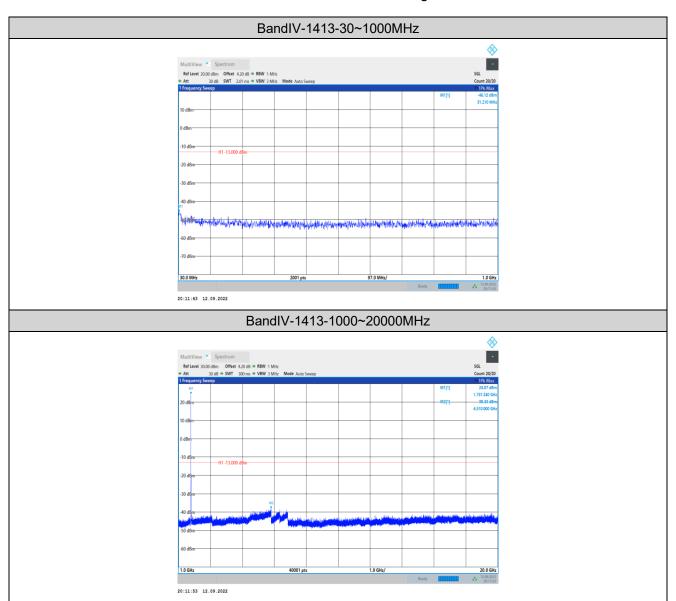
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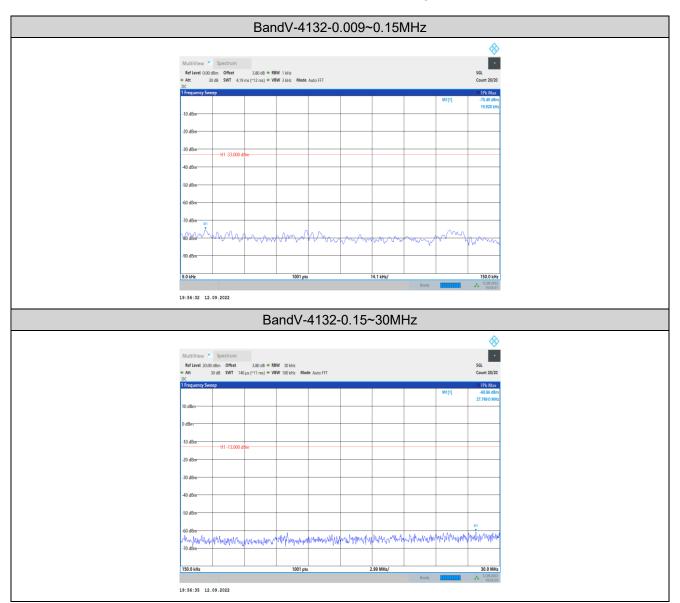
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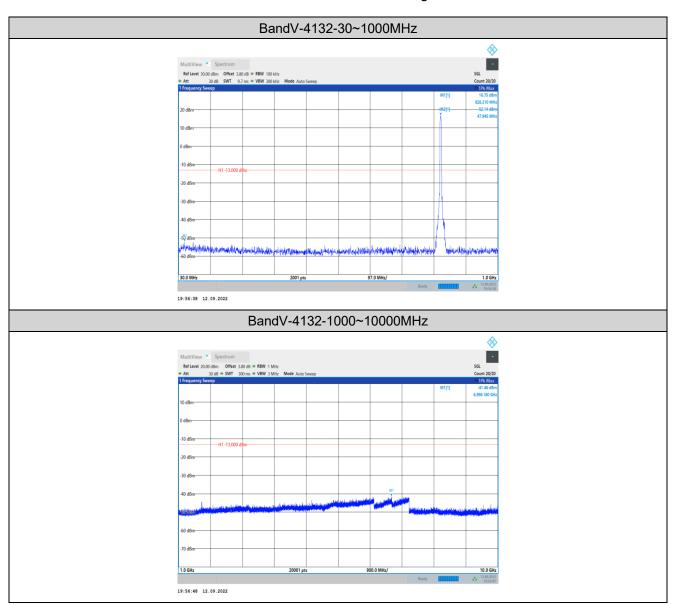
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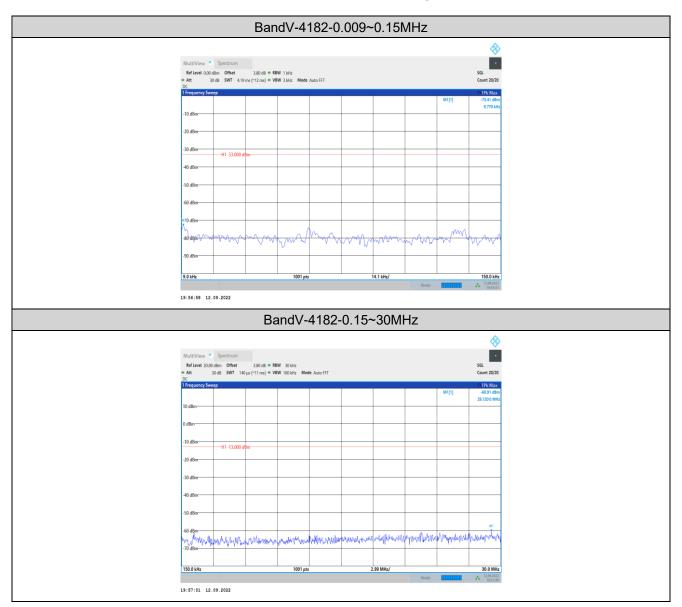
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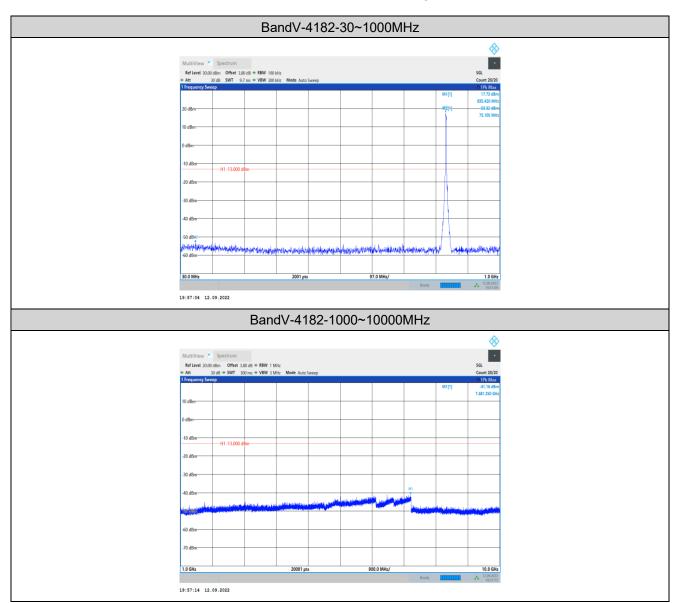
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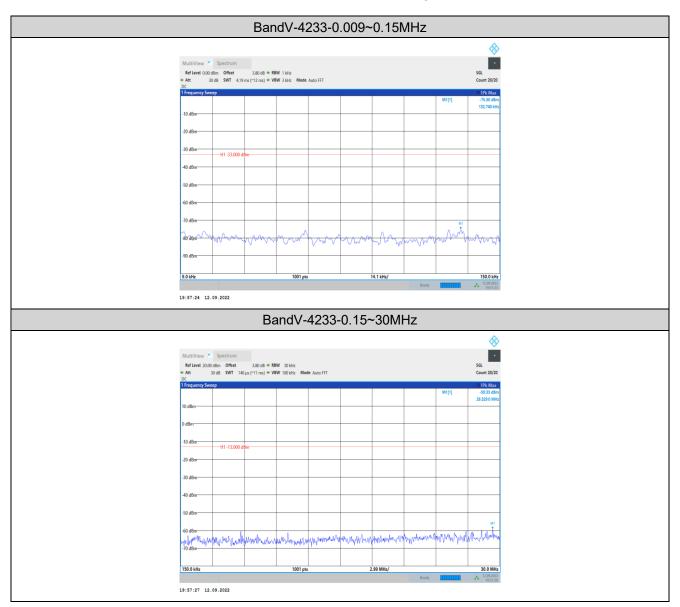
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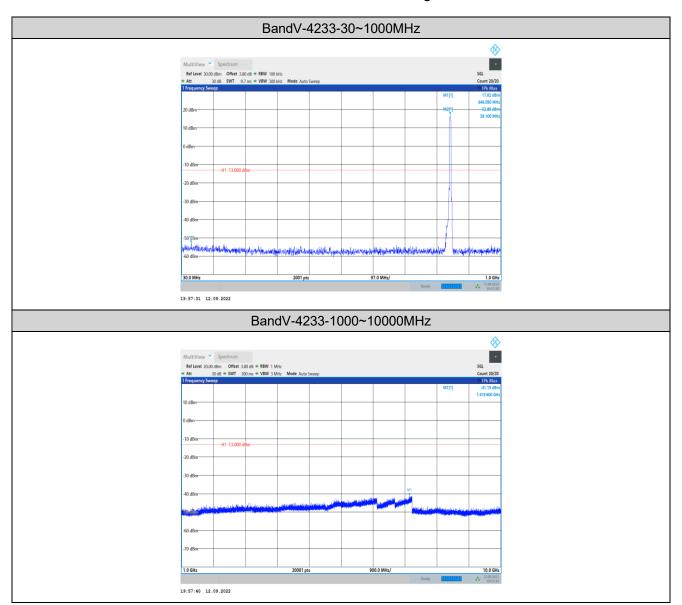
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#### **Field Strength of Spurious Radiation**

Test Band = WCDMA Band II TM1 Test Channel = Low ANT0

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1265.3333	39.50	-24.83	25.60	-54.99	-13.00	41.99	169	305	Horizontal
2	3704.8000	47.78	-45.52	29.99	-63.01	-13.00	50.01	215	299	Horizontal
3	5557.2000	49.36	-45.14	32.97	-58.07	-13.00	45.07	221	6	Horizontal
4	7409.6000	45.88	-43.38	36.49	-56.28	-13.00	43.28	143	13	Horizontal
5	9262.0000	38.23	-40.23	38.39	-58.87	-13.00	45.87	158	254	Horizontal
6	11114.4000	33.83	-37.88	39.09	-60.22	-13.00	47.22	172	116	Horizontal

#### Test Band = WCDMA Band II\_ TM1 **Test Channel = Low ANT0**

Fina	Data List									
NO	Frequency	Reading	Factor	Λ Γ[dD/∞]	Level	Limit	Margin	Height	Angle	Delevity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1616.6667	41.01	-24.88	25.36	-53.78	-13.00	40.78	213	307	Vertical
2	3704.8000	48.86	-45.52	29.99	-61.93	-13.00	48.93	225	356	Vertical
3	5557.2000	49.11	-45.14	32.97	-58.32	-13.00	45.32	146	239	Vertical
4	7409.6000	44.96	-43.38	36.49	-57.20	-13.00	44.20	218	315	Vertical
5	9262.0000	39.93	-40.23	38.39	-57.17	-13.00	44.17	227	103	Vertical
6	11114.4000	33.75	-37.88	39.09	-60.30	-13.00	47.30	163	117	Vertical



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#### Test Band = WCDMA Band II\_ TM1 **Test Channel = Middle ANT0**

Final	Data List									
NO.	Frequency	Reading	Factor	VE[qD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1586	41.50	-24.96	25.37	-53.35	-13.00	40.35	251	299	Horizontal
2	3760.0000	48.37	-45.75	30.19	-62.46	-13.00	49.46	243	7	Horizontal
3	5640.0000	49.20	-44.98	33.17	-57.88	-13.00	44.88	226	299	Horizontal
4	7520.0000	45.51	-43.10	36.43	-56.42	-13.00	43.42	182	164	Horizontal
5	9400.0000	39.50	-39.83	38.49	-57.10	-13.00	44.10	173	315	Horizontal
6	11280.0000	35.69	-37.41	39.11	-57.87	-13.00	44.87	159	7	Horizontal

#### Test Band = WCDMA Band II\_ TM1 **Test Channel = Middle ANT0**

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1613.3333	40.08	-24.89	25.36	-54.72	-13.00	41.72	229	258	Vertical
2	3760.0000	49.64	-45.75	30.19	-61.19	-13.00	48.19	162	357	Vertical
3	5640.0000	48.95	-44.98	33.17	-58.13	-13.00	45.13	148	254	Vertical
4	7520.0000	45.06	-43.10	36.43	-56.87	-13.00	43.87	157	56	Vertical
5	9400.0000	39.29	-39.83	38.49	-57.31	-13.00	44.31	125	178	Vertical
6	11280.0000	34.94	-37.41	39.11	-58.62	-13.00	45.62	166	0	Vertical





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#### Test Band = WCDMA Band II\_ TM1 Test Channel = High ANT0

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1285.3333	40.58	-24.71	25.60	-53.79	-13.00	40.79	144	196	Horizontal
2	3815.2000	47.94	-45.97	30.37	-62.93	-13.00	49.93	123	211	Horizontal
3	5722.8000	48.69	-44.83	33.47	-57.93	-13.00	44.93	152	133	Horizontal
4	7630.0000	44.97	-42.99	36.45	-56.83	-13.00	43.83	216	356	Horizontal
5	9538.0000	41.20	-40.01	38.46	-55.62	-13.00	42.62	227	211	Horizontal
6	11445.6000	35.68	-37.34	39.06	-57.86	-13.00	44.86	259	0	Horizontal

#### Test Band = WCDMA Band II\_ TM1 Test Channel = High ANT0

Final	Data List									
NO.	Frequency	Reading	Factor	ΛΕ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1292.6667	39.74	-24.66	25.60	-54.58	-13.00	41.58	232	359	Vertical
2	3815.2000	48.24	-45.97	30.37	-62.63	-13.00	49.63	251	134	Vertical
3	5722.8000	48.33	-44.83	33.47	-58.29	-13.00	45.29	145	58	Vertical
4	7630.0000	45.98	-42.99	36.45	-55.82	-13.00	42.82	225	356	Vertical
5	9538.0000	41.00	-40.01	38.46	-55.82	-13.00	42.82	261	0	Vertical
6	11445.6000	34.19	-37.34	39.06	-59.35	-13.00	46.35	227	2	Vertical





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#### Test Band = WCDMA Band II\_ TM1 Test Channel = Low ANT1

Final	Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1584.6667	40.51	-24.96	25.37	-54.34	-13.00	41.34	152	278	Horizontal
2	3704.8000	48.46	-45.52	29.99	-62.33	-13.00	49.33	142	283	Horizontal
3	5557.2000	49.46	-45.14	32.97	-57.97	-13.00	44.97	163	283	Horizontal
4	7409.6000	45.16	-43.38	36.49	-57.00	-13.00	44.00	217	331	Horizontal
5	9262.0000	38.95	-40.23	38.39	-58.15	-13.00	45.15	215	255	Horizontal
6	11114.4000	33.32	-37.88	39.09	-60.73	-13.00	47.73	229	41	Horizontal

#### Test Band = WCDMA Band II\_ TM1 **Test Channel = Low ANT1**

Final	Data List									
NO	Frequency	Reading	Factor	VE[qD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1275.3333	39.87	-24.77	25.60	-54.56	-13.00	41.56	224	319	Vertical
2	3704.8000	48.45	-45.52	29.99	-62.34	-13.00	49.34	152	102	Vertical
3	5557.2000	48.85	-45.14	32.97	-58.58	-13.00	45.58	163	0	Vertical
4	7409.6000	45.54	-43.38	36.49	-56.62	-13.00	43.62	197	2	Vertical
5	9262.0000	37.60	-40.23	38.39	-59.50	-13.00	46.50	254	313	Vertical
6	11114.4000	33.39	-37.88	39.09	-60.66	-13.00	47.66	226	208	Vertical



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#### Test Band = WCDMA Band II\_ TM1 **Test Channel = Middle ANT1**

Final	Data List									
NO	Frequency	Reading	Factor	VE[qD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1275.3333	39.96	-24.77	25.60	-54.47	-13.00	41.47	131	10	Horizontal
2	3760.0000	48.63	-45.75	30.19	-62.20	-13.00	49.20	142	0	Horizontal
3	5640.0000	47.95	-44.98	33.17	-59.13	-13.00	46.13	163	0	Horizontal
4	7520.0000	44.33	-43.10	36.43	-57.60	-13.00	44.60	157	87	Horizontal
5	9400.0000	39.38	-39.83	38.49	-57.22	-13.00	44.22	195	42	Horizontal
6	11280.0000	36.18	-37.41	39.11	-57.38	-13.00	44.38	116	134	Horizontal

#### Test Band = WCDMA Band II\_ TM1 **Test Channel = Middle ANT1**

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polanty
1	1304	40.12	-24.64	25.61	-54.18	-13.00	41.18	231	246	Vertical
2	3760.0000	48.04	-45.75	30.19	-62.79	-13.00	49.79	225	0	Vertical
3	5640.0000	48.80	-44.98	33.17	-58.28	-13.00	45.28	142	73	Vertical
4	7520.0000	45.90	-43.10	36.43	-56.03	-13.00	43.03	195	15	Vertical
5	9400.0000	39.55	-39.83	38.49	-57.05	-13.00	44.05	271	7	Vertical
6	11280.0000	34.94	-37.41	39.11	-58.62	-13.00	45.62	223	0	Vertical





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#### Test Band = WCDMA Band II\_ TM1 Test Channel = High ANT1

Final	Data List									
NO.	Frequency	Reading	Factor	VE[qD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1287.3333	39.84	-24.70	25.60	-54.51	-13.00	41.51	125	264	Horizontal
2	3815.2000	49.10	-45.97	30.37	-61.77	-13.00	48.77	114	0	Horizontal
3	5722.8000	48.21	-44.83	33.47	-58.41	-13.00	45.41	126	14	Horizontal
4	7630.0000	44.49	-42.99	36.45	-57.31	-13.00	44.31	182	254	Horizontal
5	9538.0000	41.15	-40.01	38.46	-55.67	-13.00	42.67	157	0	Horizontal
6	11445.6000	34.89	-37.34	39.06	-58.65	-13.00	45.65	193	356	Horizontal

#### Test Band = WCDMA Band II\_ TM1 Test Channel = High ANT1

Final	Data List									
NO.	Frequency	Reading	Factor	VE[qD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1330	39.80	-24.81	25.61	-54.66	-13.00	41.66	213	292	Vertical
2	3815.2000	48.40	-45.97	30.37	-62.47	-13.00	49.47	144	273	Vertical
3	5722.8000	48.02	-44.83	33.47	-58.60	-13.00	45.60	156	56	Vertical
4	7630.0000	45.70	-42.99	36.45	-56.10	-13.00	43.10	172	150	Vertical
5	9538.0000	40.25	-40.01	38.46	-56.57	-13.00	43.57	193	87	Vertical
6	11445.6000	33.81	-37.34	39.06	-59.73	-13.00	46.73	158	135	Vertical





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#### Test Band = WCDMA Band IV\_ TM1 Test Channel = Low ANT0

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1294.6667	40.26	-24.65	25.60	-54.05	-13.00	41.05	162	312	Horizontal
2	3424.8000	50.02	-46.27	29.45	-62.06	-13.00	49.06	153	255	Horizontal
3	5137.2000	47.79	-45.34	32.96	-59.85	-13.00	46.85	216	240	Horizontal
4	6849.6000	47.85	-44.14	35.90	-55.65	-13.00	42.65	228	0	Horizontal
5	8562.0000	42.05	-41.44	37.67	-56.98	-13.00	43.98	271	272	Horizontal
6	10274.4000	37.68	-39.19	38.83	-57.94	-13.00	44.94	192	165	Horizontal

#### Test Band = WCDMA Band IV\_ TM1 **Test Channel = Low ANT0**

Final	Data List									
NO.	Frequency	Reading	Factor	VE[9D/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1234	39.95	-25.02	25.60	-54.73	-13.00	41.73	146	3	Vertical
2	3424.8000	49.58	-46.27	29.45	-62.50	-13.00	49.50	151	344	Vertical
3	5137.2000	46.86	-45.34	32.96	-60.78	-13.00	47.78	253	0	Vertical
4	6849.6000	45.56	-44.14	35.90	-57.94	-13.00	44.94	226	0	Vertical
5	8562.0000	42.66	-41.44	37.67	-56.37	-13.00	43.37	176	329	Vertical
6	10274.4000	36.17	-39.19	38.83	-59.45	-13.00	46.45	192	2	Vertical





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#### Test Band = WCDMA Band IV\_ TM1 **Test Channel = Middle ANT0**

Final	Data List									
NO.	Frequency	Reading	Factor	A F [dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1264	40.48	-24.84	25.60	-54.02	-13.00	41.02	116	359	Horizontal
2	3465.2000	50.79	-46.27	29.49	-61.25	-13.00	48.25	125	87	Horizontal
3	5197.8000	46.96	-45.28	32.99	-60.59	-13.00	47.59	148	6	Horizontal
4	6930.4000	46.50	-43.93	36.00	-56.69	-13.00	43.69	179	254	Horizontal
5	8663.0000	42.11	-41.56	37.85	-56.85	-13.00	43.85	198	0	Horizontal
6	10395.6000	36.42	-39.01	38.86	-58.99	-13.00	45.99	256	6	Horizontal

#### Test Band = WCDMA Band IV\_ TM1 **Test Channel = Middle ANT0**

Final	Data List									
NO	Frequency	Reading	Factor	AF[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1305.3333	39.98	-24.65	25.61	-54.33	-13.00	41.33	223	360	Vertical
2	3465.2000	51.42	-46.27	29.49	-60.62	-13.00	47.62	215	102	Vertical
3	5197.8000	48.88	-45.28	32.99	-58.67	-13.00	45.67	224	255	Vertical
4	6930.4000	47.28	-43.93	36.00	-55.91	-13.00	42.91	264	0	Vertical
5	8663.0000	40.80	-41.56	37.85	-58.16	-13.00	45.16	285	147	Vertical
6	10395.6000	36.79	-39.01	38.86	-58.62	-13.00	45.62	159	178	Vertical



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#### Test Band = WCDMA Band IV\_ TM1 Test Channel = High ANT0

Final	Data List									
NO.	Frequency	Reading	Factor	A F [dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1250	40.08	-24.92	25.60	-54.50	-13.00	41.50	229	359	Horizontal
2	3505.2000	49.50	-46.25	29.52	-62.49	-13.00	49.49	158	58	Horizontal
3	5257.8000	46.43	-45.17	32.93	-61.06	-13.00	48.06	167	331	Horizontal
4	7010.4000	47.05	-43.62	36.11	-55.72	-13.00	42.72	192	147	Horizontal
5	8763.0000	41.23	-41.41	38.02	-57.42	-13.00	44.42	136	178	Horizontal
6	10515.6000	35.02	-38.75	38.98	-60.01	-13.00	47.01	157	6	Horizontal

#### Test Band = WCDMA Band IV\_ TM1 Test Channel = High ANT0

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1285.3333	39.45	-24.71	25.60	-54.92	-13.00	41.92	234	4	Vertical
2	3505.2000	50.71	-46.25	29.52	-61.28	-13.00	48.28	251	344	Vertical
3	5257.8000	47.87	-45.17	32.93	-59.62	-13.00	46.62	263	254	Vertical
4	7010.4000	45.64	-43.62	36.11	-57.13	-13.00	44.13	168	237	Vertical
5	8763.0000	40.36	-41.41	38.02	-58.29	-13.00	45.29	175	285	Vertical
6	10515.6000	36.00	-38.75	38.98	-59.03	-13.00	46.03	195	0	Vertical



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#### Test Band = WCDMA Band IV\_ TM1 Test Channel = Low ANT1

Final	Data List									
NO.	Frequency	Reading	Factor	A C[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1258.6667	40.05	-24.87	25.60	-54.48	-13.00	41.48	226	298	Horizontal
2	3424.8000	49.06	-46.27	29.45	-63.02	-13.00	50.02	251	254	Horizontal
3	5137.2000	46.50	-45.34	32.96	-61.14	-13.00	48.14	148	330	Horizontal
4	6849.6000	45.28	-44.14	35.90	-58.22	-13.00	45.22	119	0	Horizontal
5	8562.0000	42.51	-41.44	37.67	-56.52	-13.00	43.52	157	356	Horizontal
6	10274.4000	37.02	-39.19	38.83	-58.60	-13.00	45.60	168	192	Horizontal

#### Test Band = WCDMA Band IV\_ TM1 **Test Channel = Low ANT1**

Final	Data List									
NO.	Frequency	Reading	Factor	ΛΕ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1274	39.48	-24.78	25.60	-54.95	-13.00	41.95	234	330	Vertical
2	3424.8000	49.89	-46.27	29.45	-62.19	-13.00	49.19	256	117	Vertical
3	5137.2000	46.96	-45.34	32.96	-60.68	-13.00	47.68	186	163	Vertical
4	6849.6000	47.30	-44.14	35.90	-56.20	-13.00	43.20	172	148	Vertical
5	8562.0000	42.50	-41.44	37.67	-56.53	-13.00	43.53	159	86	Vertical
6	10274.4000	36.44	-39.19	38.83	-59.18	-13.00	46.18	144	314	Vertical



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#### Test Band = WCDMA Band IV\_ TM1 **Test Channel = Middle ANT1**

Final	Data List									
NO.	Frequency	Reading	Factor	A F [dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1479.3333	41.31	-25.18	25.51	-53.62	-13.00	40.62	241	307	Horizontal
2	3465.2000	49.75	-46.27	29.49	-62.29	-13.00	49.29	226	103	Horizontal
3	5197.8000	47.59	-45.28	32.99	-59.96	-13.00	46.96	251	14	Horizontal
4	6930.4000	46.67	-43.93	36.00	-56.52	-13.00	43.52	149	284	Horizontal
5	8663.0000	41.96	-41.56	37.85	-57.00	-13.00	44.00	117	208	Horizontal
6	10395.6000	36.17	-39.01	38.86	-59.24	-13.00	46.24	193	56	Horizontal

#### Test Band = WCDMA Band IV\_ TM1 **Test Channel = Middle ANT1**

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1285.3333	39.83	-24.71	25.60	-54.54	-13.00	41.54	237	140	Vertical
2	3465.2000	50.09	-46.27	29.49	-61.95	-13.00	48.95	224	133	Vertical
3	5197.8000	47.49	-45.28	32.99	-60.06	-13.00	47.06	156	178	Vertical
4	6930.4000	46.01	-43.93	36.00	-57.18	-13.00	44.18	197	285	Vertical
5	8663.0000	42.18	-41.56	37.85	-56.78	-13.00	43.78	182	285	Vertical
6	10395.6000	36.24	-39.01	38.86	-59.17	-13.00	46.17	168	209	Vertical





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#### Test Band = WCDMA Band IV\_ TM1 Test Channel = High ANT1

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1316	40.29	-24.72	25.61	-54.08	-13.00	41.08	216	289	Horizontal
2	3505.2000	49.40	-46.25	29.52	-62.59	-13.00	49.59	225	255	Horizontal
3	5257.8000	47.47	-45.17	32.93	-60.02	-13.00	47.02	283	1	Horizontal
4	7010.4000	46.26	-43.62	36.11	-56.51	-13.00	43.51	294	86	Horizontal
5	8763.0000	41.11	-41.41	38.02	-57.54	-13.00	44.54	270	255	Horizontal
6	10515.6000	35.15	-38.75	38.98	-59.88	-13.00	46.88	255	178	Horizontal

#### Test Band = WCDMA Band IV\_ TM1 Test Channel = High ANT1

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polatily
1	1286.6667	39.85	-24.70	25.60	-54.51	-13.00	41.51	163	68	Vertical
2	3505.2000	50.37	-46.25	29.52	-61.62	-13.00	48.62	141	209	Vertical
3	5257.8000	47.24	-45.17	32.93	-60.25	-13.00	47.25	157	209	Vertical
4	7010.4000	46.60	-43.62	36.11	-56.17	-13.00	43.17	291	332	Vertical
5	8763.0000	41.96	-41.41	38.02	-56.69	-13.00	43.69	228	226	Vertical
6	10515.6000	35.77	-38.75	38.98	-59.26	-13.00	46.26	233	29	Vertical



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#### Test Band = WCDMA Band V\_ TM1 Test Channel = Low ANT0

Final	Data List									
NO.	Frequency	Reading	Factor	A F[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1318.2857	53.98	-48.11	25.61	-63.78	-13.00	50.78	149	106	Horizontal
2	1652.8000	50.99	-48.22	25.37	-67.11	-13.00	54.11	182	121	Horizontal
3	2479.2000	50.41	-47.31	27.70	-64.45	-13.00	51.45	156	323	Horizontal
4	3305.6000	49.88	-46.67	29.55	-62.50	-13.00	49.50	176	360	Horizontal
5	4132.0000	48.84	-45.92	31.00	-61.34	-13.00	48.34	112	147	Horizontal
6	4958.4000	49.15	-45.72	32.76	-59.06	-13.00	46.06	158	243	Horizontal

#### Test Band = WCDMA Band V\_ TM1 **Test Channel = Low ANT0**

Final	Final Data List												
NO	Frequency	Reading	Factor	A F[dD/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1142.8571	53.92	-48.41	25.53	-64.22	-13.00	51.22	223	239	Vertical			
2	1652.8000	50.25	-48.22	25.37	-67.85	-13.00	54.85	215	107	Vertical			
3	2479.2000	49.81	-47.31	27.70	-65.05	-13.00	52.05	146	118	Vertical			
4	3305.6000	51.32	-46.67	29.55	-61.06	-13.00	48.06	159	319	Vertical			
5	4132.0000	48.95	-45.92	31.00	-61.23	-13.00	48.23	187	319	Vertical			
6	4958.4000	48.87	-45.72	32.76	-59.34	-13.00	46.34	193	332	Vertical			





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#### Test Band = WCDMA Band V\_ TM1 **Test Channel = Middle ANT0**

Final	Data List									
NO.	Frequency	Reading	Factor	A F[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1307.4286	54.28	-48.12	25.61	-63.49	-13.00	50.49	179	360	Horizontal
2	1672.8000	51.60	-48.19	25.38	-66.47	-13.00	53.47	214	238	Horizontal
3	2509.2000	51.81	-47.24	27.80	-62.88	-13.00	49.88	256	238	Horizontal
4	3345.6000	50.12	-46.62	29.50	-62.26	-13.00	49.26	294	93	Horizontal
5	4182.0000	48.80	-45.95	31.07	-61.34	-13.00	48.34	228	80	Horizontal
6	5018.4000	50.23	-45.73	32.89	-57.87	-13.00	44.87	153	359	Horizontal

#### Test Band = WCDMA Band V\_ TM1 **Test Channel = Middle ANT0**

Final	Data List									
NO.	Frequency	Reading	Factor	ΛΕ[dD/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1323.4286	54.27	-48.10	25.61	-63.48	-13.00	50.48	233	280	Vertical
2	1672.8000	51.02	-48.19	25.38	-67.05	-13.00	54.05	215	173	Vertical
3	2509.2000	51.30	-47.24	27.80	-63.39	-13.00	50.39	146	200	Vertical
4	3345.6000	49.91	-46.62	29.50	-62.47	-13.00	49.47	179	294	Vertical
5	4182.0000	49.07	-45.95	31.07	-61.07	-13.00	48.07	154	226	Vertical
6	5018.4000	48.35	-45.73	32.89	-59.75	-13.00	46.75	156	173	Vertical





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#### Test Band = WCDMA Band V\_ TM1 Test Channel = High ANT0

Final	Data List									
NO.	Frequency	Reading	Factor	A F[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1320.5714	53.90	-48.10	25.61	-63.86	-13.00	50.86	178	109	Horizontal
2	1693.2000	51.14	-48.17	25.39	-66.90	-13.00	53.90	192	161	Horizontal
3	2539.8000	50.44	-47.13	27.90	-64.05	-13.00	51.05	215	360	Horizontal
4	3386.4000	49.86	-46.56	29.45	-62.51	-13.00	49.51	226	4	Horizontal
5	4233.0000	48.80	-45.90	31.17	-61.19	-13.00	48.19	134	294	Horizontal
6	5079.6000	46.86	-45.47	32.92	-60.94	-13.00	47.94	122	360	Horizontal

#### Test Band = WCDMA Band V\_ TM1 **Test Channel = High ANT0**

Final	Final Data List													
NO.	Frequency	Reading	Factor	VE[9D/m]	Level	Limit	Margin	Height	Angle	Dolority				
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity				
1	1435.4286	53.92	-48.11	25.57	-63.88	-13.00	50.88	135	4	Vertical				
2	1693.2000	52.32	-48.17	25.39	-65.72	-13.00	52.72	216	268	Vertical				
3	2539.8000	50.23	-47.13	27.90	-64.26	-13.00	51.26	142	109	Vertical				
4	3386.4000	48.91	-46.56	29.45	-63.46	-13.00	50.46	117	4	Vertical				
5	4233.0000	48.24	-45.90	31.17	-61.75	-13.00	48.75	176	176	Vertical				
6	5079.6000	47.10	-45.47	32.92	-60.70	-13.00	47.70	219	282	Vertical				



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#### Test Band = WCDMA Band V\_ TM1 Test Channel = Low ANT1

Final	Data List									
NO.	Frequency	Reading	Factor	A F[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1314.2857	54.13	-48.11	25.61	-63.63	-13.00	50.63	251	146	Horizontal
2	1652.8000	52.04	-48.22	25.37	-66.06	-13.00	53.06	243	319	Horizontal
3	2479.2000	50.39	-47.31	27.70	-64.47	-13.00	51.47	226	360	Horizontal
4	3305.6000	51.10	-46.67	29.55	-61.28	-13.00	48.28	159	359	Horizontal
5	4132.0000	50.20	-45.92	31.00	-59.98	-13.00	46.98	179	334	Horizontal
6	4958.4000	49.59	-45.72	32.76	-58.62	-13.00	45.62	143	360	Horizontal

#### Test Band = WCDMA Band V\_ TM1 **Test Channel = Low ANT1**

Final	Final Data List													
NO.	Frequency	Reading	Factor	ΛΕ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority				
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity				
1	1406.8571	54.57	-48.02	25.61	-63.10	-13.00	50.10	224	0	Vertical				
2	1652.8000	52.09	-48.22	25.37	-66.01	-13.00	53.01	251	228	Vertical				
3	2479.2000	50.47	-47.31	27.70	-64.39	-13.00	51.39	263	120	Vertical				
4	3305.6000	50.12	-46.67	29.55	-62.26	-13.00	49.26	271	105	Vertical				
5	4132.0000	50.97	-45.92	31.00	-59.21	-13.00	46.21	159	334	Vertical				
6	4958.4000	49.23	-45.72	32.76	-58.98	-13.00	45.98	167	65	Vertical				





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#### Test Band = WCDMA Band V\_ TM1 **Test Channel = Middle ANT1**

Final	Data List									
NO.	Frequency	Reading	Factor	ΛΕ[dD/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1267.4286	53.64	-48.27	25.60	-64.29	-13.00	51.29	236	345	Horizontal
2	1672.8000	51.56	-48.19	25.38	-66.51	-13.00	53.51	228	121	Horizontal
3	2509.2000	50.45	-47.24	27.80	-64.24	-13.00	51.24	172	188	Horizontal
4	3345.6000	50.54	-46.62	29.50	-61.84	-13.00	48.84	159	135	Horizontal
5	4182.0000	49.44	-45.95	31.07	-60.70	-13.00	47.70	216	67	Horizontal
6	5018.4000	49.45	-45.73	32.89	-58.65	-13.00	45.65	221	40	Horizontal

#### Test Band = WCDMA Band V\_ TM1 **Test Channel = Middle ANT1**

Final	Data List									
NO.	Frequency	Reading	Factor	ΛΕ[dD/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1395.4286	53.35	-48.01	25.62	-64.30	-13.00	51.30	214	308	Vertical
2	1672.8000	51.16	-48.19	25.38	-66.91	-13.00	53.91	253	7	Vertical
3	2509.2000	50.91	-47.24	27.80	-63.78	-13.00	50.78	162	3	Vertical
4	3345.6000	51.75	-46.62	29.50	-60.63	-13.00	47.63	173	356	Vertical
5	4182.0000	48.35	-45.95	31.07	-61.79	-13.00	48.79	119	294	Vertical
6	5018.4000	48.90	-45.73	32.89	-59.20	-13.00	46.20	158	0	Vertical





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# Test Band = WCDMA Band V\_TM1 Test Channel = High ANT1

Final	Data List									
NO.	Frequency	Reading	Factor	A F[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1464	54.04	-48.20	25.53	-63.89	-13.00	50.89	183	134	Horizontal
2	1693.2000	50.99	-48.17	25.39	-67.05	-13.00	54.05	157	67	Horizontal
3	2539.8000	50.51	-47.13	27.90	-63.98	-13.00	50.98	215	4	Horizontal
4	3386.4000	49.07	-46.56	29.45	-63.30	-13.00	50.30	244	201	Horizontal
5	4233.0000	49.21	-45.90	31.17	-60.78	-13.00	47.78	216	295	Horizontal
6	5079.6000	48.15	-45.47	32.92	-59.65	-13.00	46.65	159	295	Horizontal

# Test Band = WCDMA Band V\_ TM1 Test Channel = High ANT1

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polatily
1	1402.2857	54.16	-48.01	25.62	-63.49	-13.00	50.49	213	133	Vertical
2	1693.2000	50.97	-48.17	25.39	-67.07	-13.00	54.07	225	8	Vertical
3	2539.8000	50.26	-47.13	27.90	-64.23	-13.00	51.23	142	3	Vertical
4	3386.4000	49.69	-46.56	29.45	-62.68	-13.00	49.68	169	66	Vertical
5	4233.0000	48.46	-45.90	31.17	-61.53	-13.00	48.53	182	188	Vertical
6	5079.6000	47.73	-45.47	32.92	-60.07	-13.00	47.07	177	243	Vertical

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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#### **Frequency Stability**

#### **Test Result**

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Verdict	
BandII	9400	VL	NT	-41.03	-0.021824	PASS	
BandII	9400	VN	NT	-69.77	-0.037112	PASS	
BandII	9400	VH	NT	-24.51	-0.013037	PASS	
BandIV	1413	VL	NT	8.37	0.004831	PASS	
BandIV	1413	VN	NT	5.47	0.003157	PASS	
BandIV	1413	VH	NT	8.05	0.004646	PASS	

Voltage								
Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
BandV	4182	VL	NT	-3.71	-0.004436	±2.5	PASS	
BandV	4182	VN	NT	-1.96	-0.002343	±2.5	PASS	
BandV	4182	VH	NT	-4.56	-0.005452	±2.5	PASS	



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Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Verdict	
Bandll	9400	NV	-30	-15.94	-0.008479	PASS	
Bandll	9400	NV	-20	-9.78	-0.005202	PASS	
BandII	9400	NV	0	-6.05	-0.003218	PASS	
Bandll	9400	NV	10	-3.14	-0.001670	PASS	
Bandll	9400	NV	20	-0.45	-0.000239	PASS	
Bandll	9400	NV	30	0.08	0.000043	PASS	
Bandll	9400	NV	40	0.55	0.000293	PASS	
Bandll	9400	NV	50	1.64	0.000872	PASS	
BandIV	1413	NV	-30	5.17	0.002984	PASS	
BandIV	1413	NV	-20	5.35	0.003088	PASS	
BandIV	1413	NV	0	4.45	0.002568	PASS	
BandIV	1413	NV	10	4.88	0.002817	PASS	
BandIV	1413	NV	20	3.49	0.002014	PASS	
BandIV	1413	NV	30	4.10	0.002366	PASS	
BandIV	1413	NV	40	2.97	0.001714	PASS	
BandIV	1413	NV	50	1.76	0.001016	PASS	

Temperature								
Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
BandV	4182	NV	-30	-4.18	-0.004998	±2.5	PASS	
BandV	4182	NV	-20	-3.57	-0.004268	±2.5	PASS	
BandV	4182	NV	0	-2.78	-0.003324	±2.5	PASS	
BandV	4182	NV	10	-2.27	-0.002714	±2.5	PASS	
BandV	4182	NV	20	-1.82	-0.002176	±2.5	PASS	
BandV	4182	NV	30	-1.41	-0.001686	±2.5	PASS	
BandV	4182	NV	40	-1.46	-0.001746	±2.5	PASS	
BandV	4182	NV	50	-0.94	-0.001124	±2.5	PASS	

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