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Appendix B.2

WCDMA Band II&IV&V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	EIRP	Limit(dBm)	Verdict
Band2	9262	23.60	25.91	33.01	PASS
Band2	9400	23.73	26.04	33.01	PASS
Band2	9538	24.01	26.32	33.01	PASS
Band4	1312	23.11	25.2	30.00	PASS
Band4	1413	22.83	24.92	30.00	PASS
Band4	1513	22.59	24.68	30.00	PASS
Band	Channel	Power(dBm)	ERP	Limit(dBm)	Verdict
Band5	4132	24.53	24.58	38.45	PASS
Band5	4182	24.68	24.73	38.45	PASS
Band5	4233	24.72	24.77	38.45	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.92	13	PASS
Band2	9400	2.9	13	PASS
Band2	9538	2.92	13	PASS
Band4	1312	3	13	PASS
Band4	1413	2.96	13	PASS
Band4	1513	3	13	PASS
Band5	4132	3.1	13	PASS
Band5	4182	3.14	13	PASS
Band5	4233	3	13	PASS



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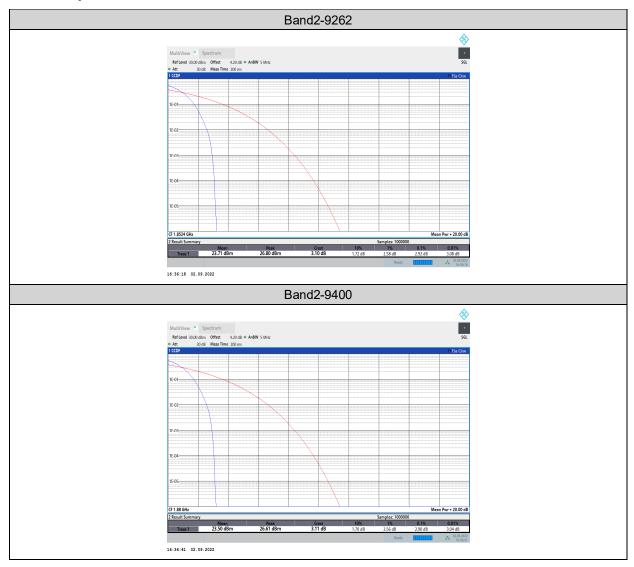
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Test Graphs





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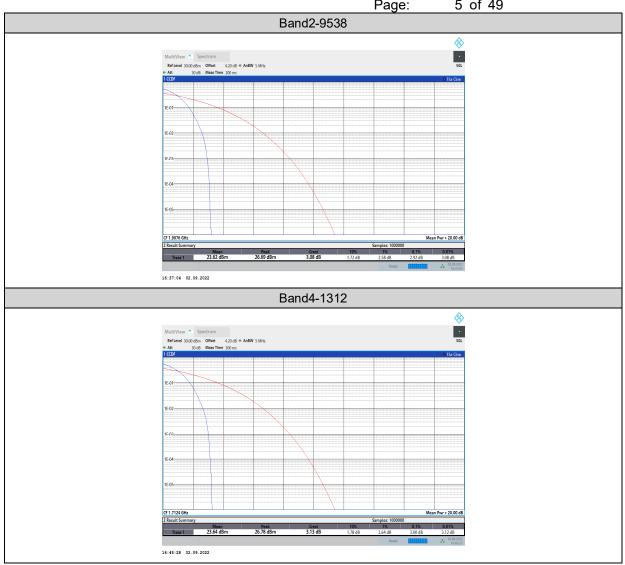
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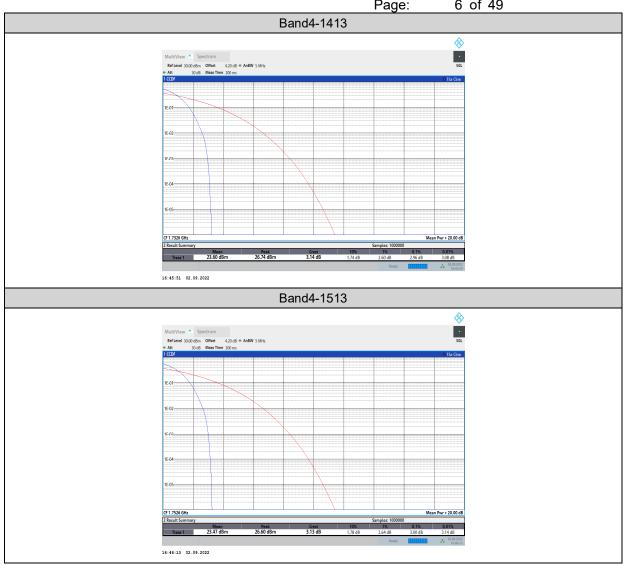
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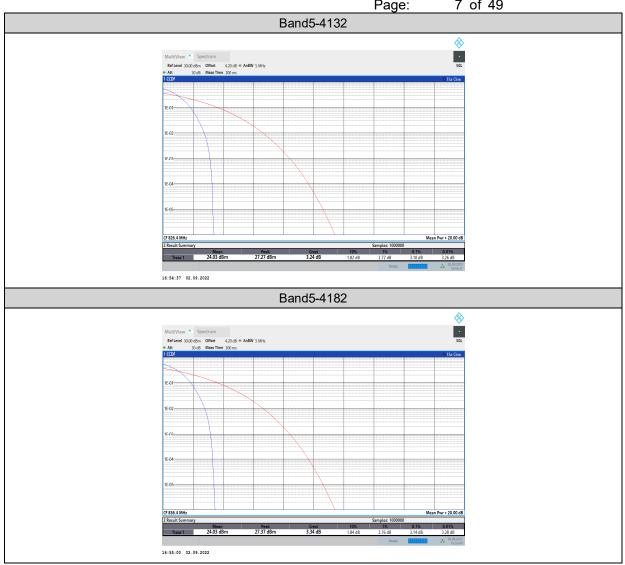
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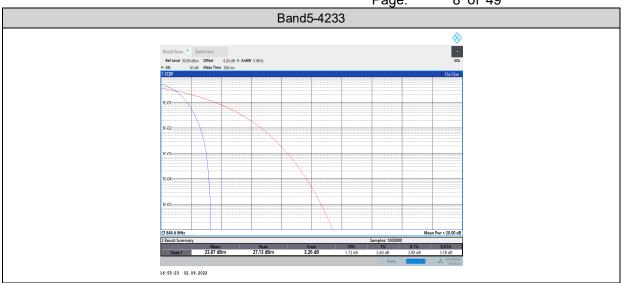
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Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band2	9400	PASS	PASS
Band4	1513	PASS	PASS
Band5	4182	PASS	PASS



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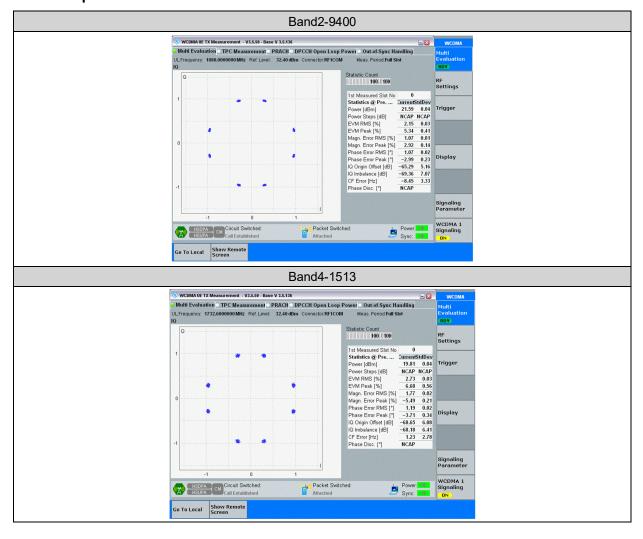


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Test Graphs





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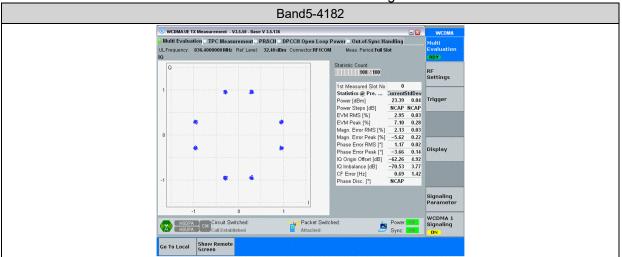
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth	26dB Bandwidth	Limit(kHz)	Verdict
		(kHz)	(kHz)	Liiiii(Ki iz)	Veruici
Band2	9262	4.152	4.74		PASS
Band2	9400	4.157	4.74		PASS
Band2	9538	4.159	4.75		PASS
Band4	1312	4.135	4.73		PASS
Band4	1413	4.144	4.72		PASS
Band4	1513	4.136	4.72		PASS
Band5	4132	4.143	4.71		PASS
Band5	4182	4.144	4.72		PASS
Band5	4233	4.142	4.72		PASS



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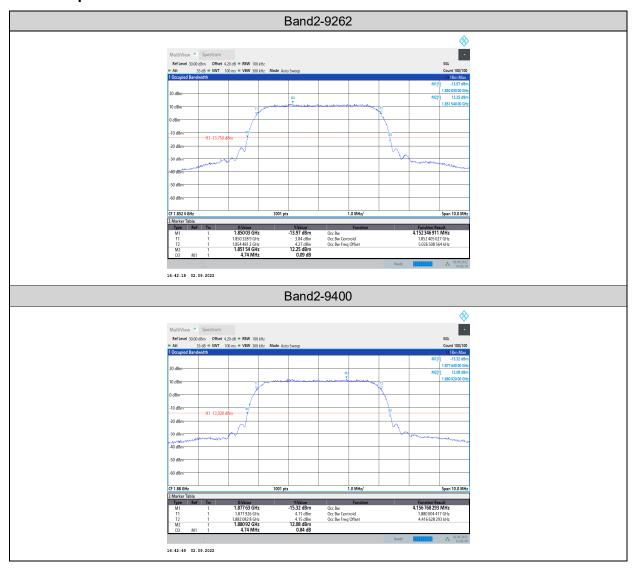


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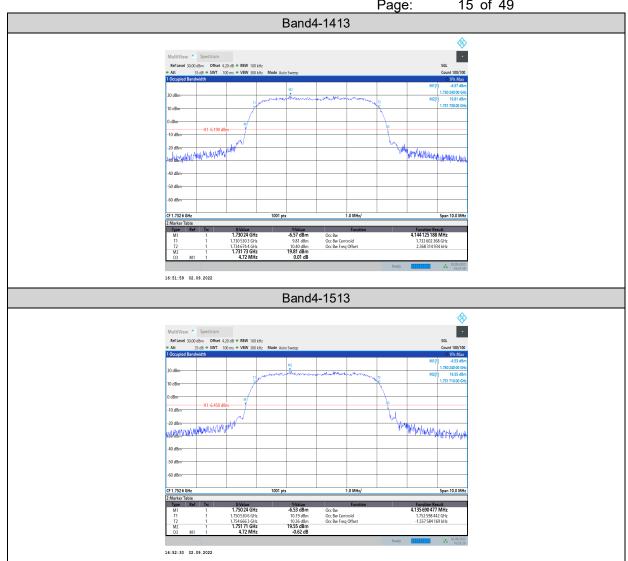
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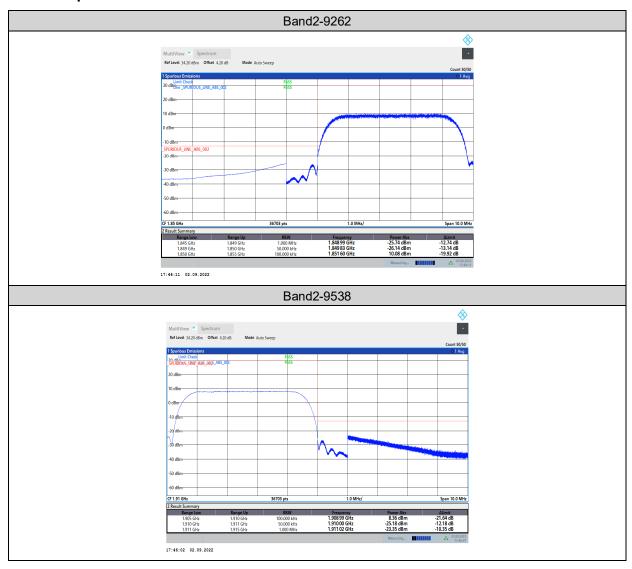
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Band Edge

Test Graphs





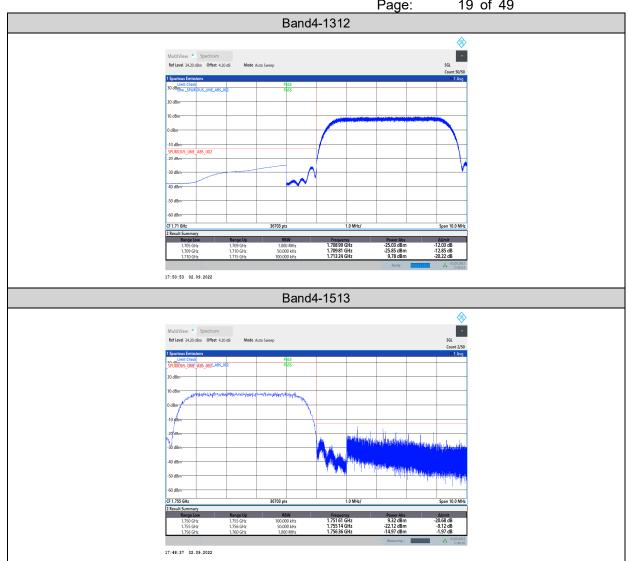
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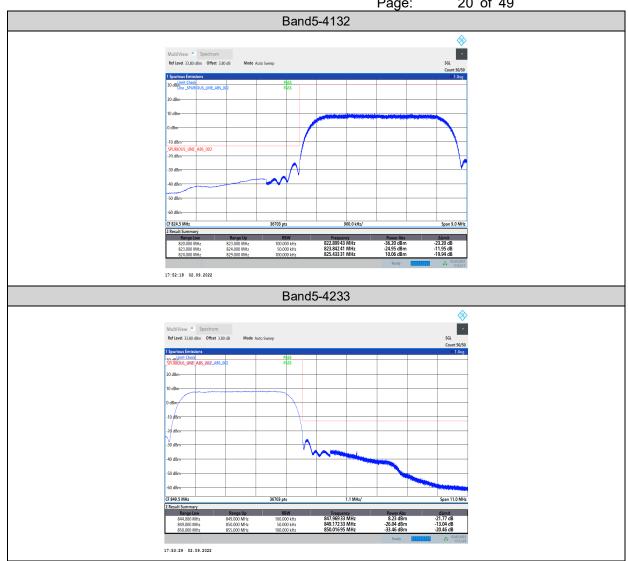
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Conducted SpuriousEmission

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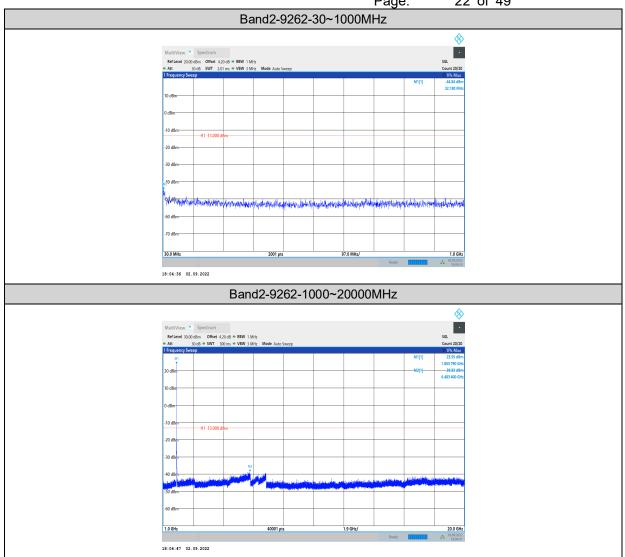


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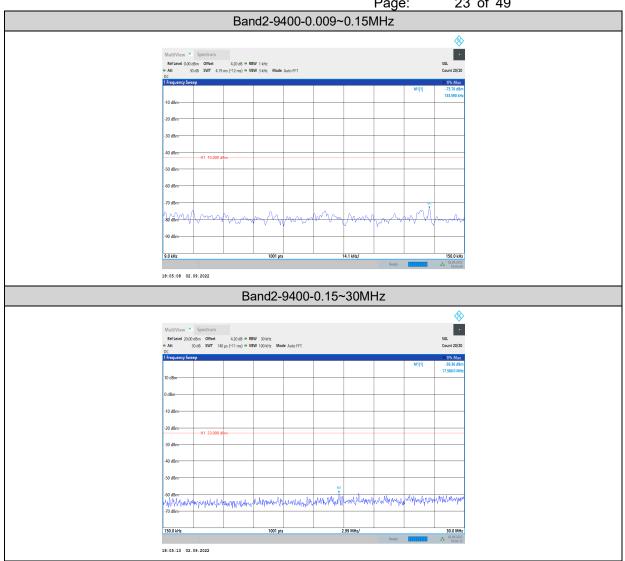
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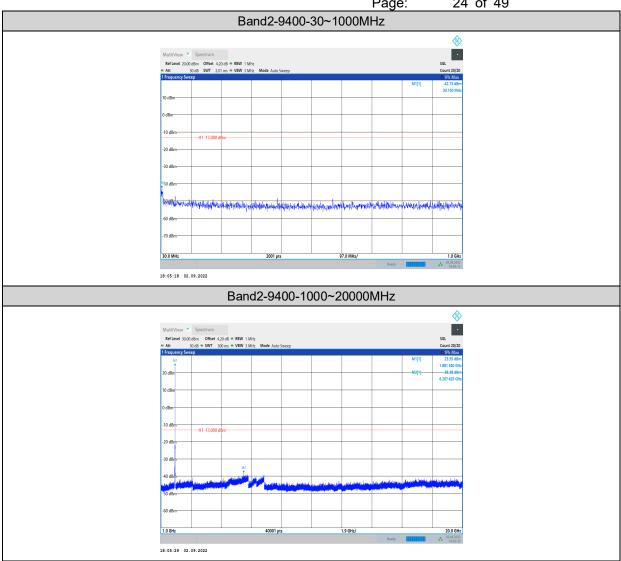
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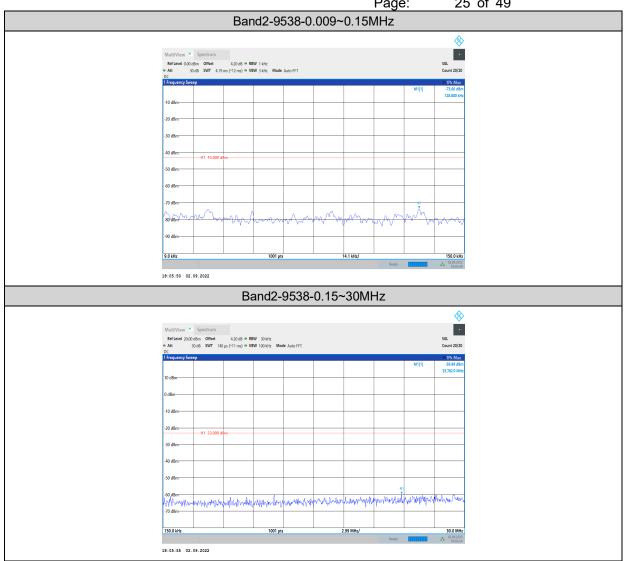
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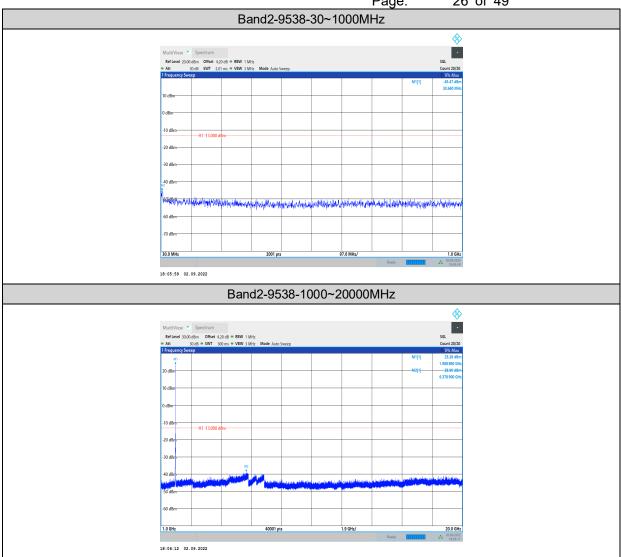
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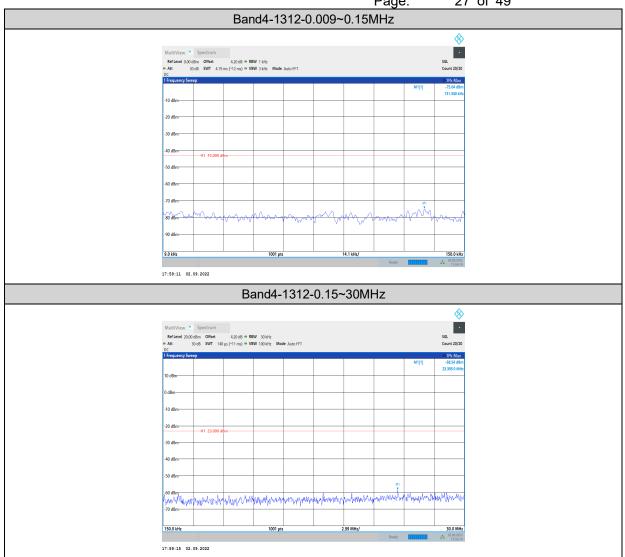
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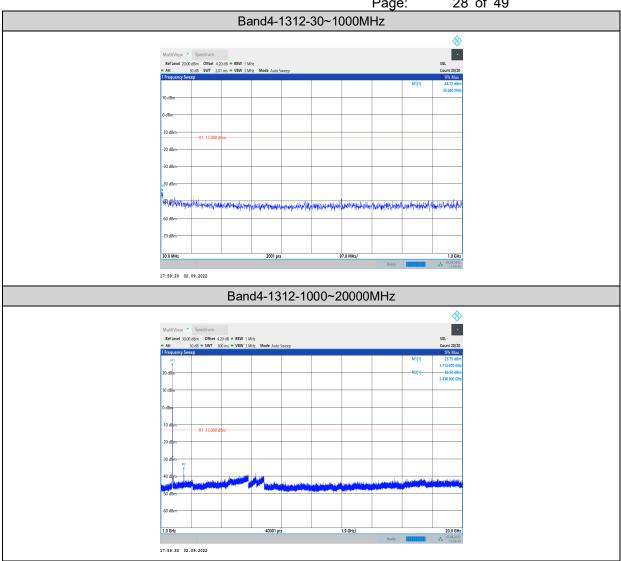
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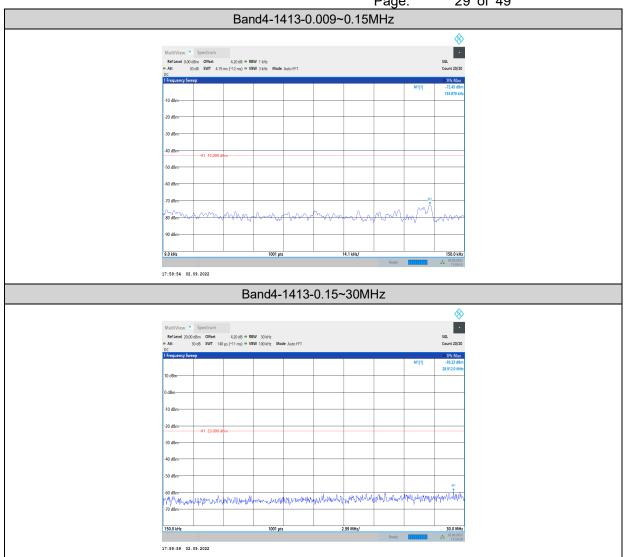
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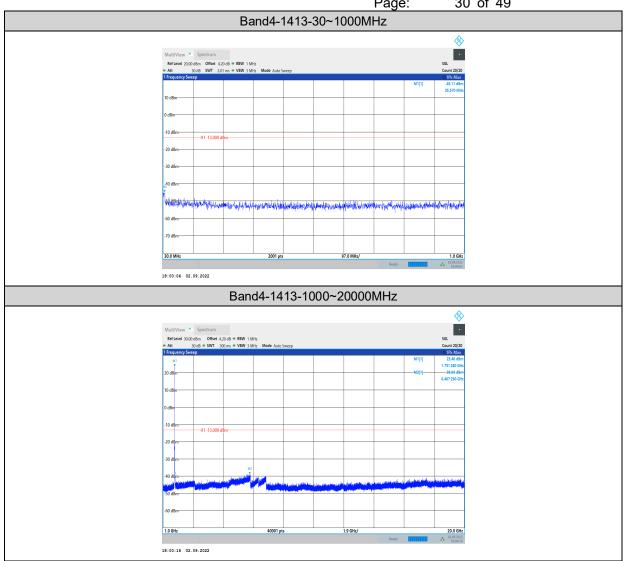
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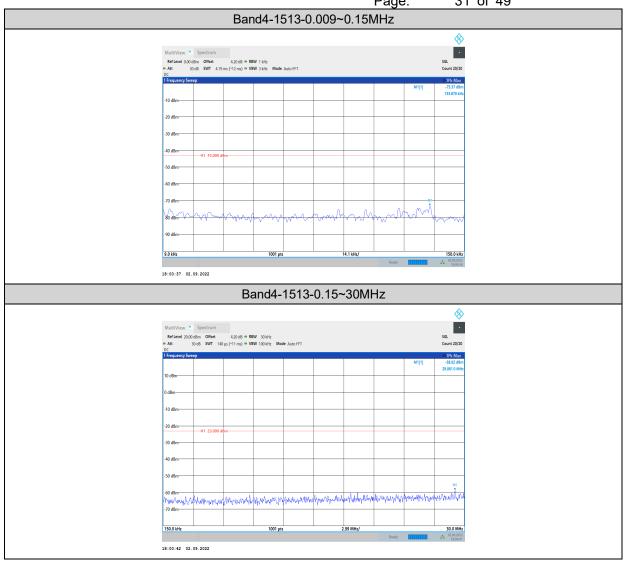
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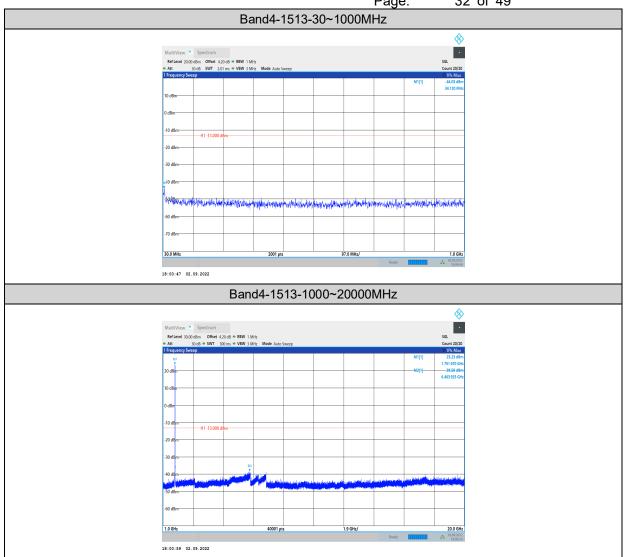
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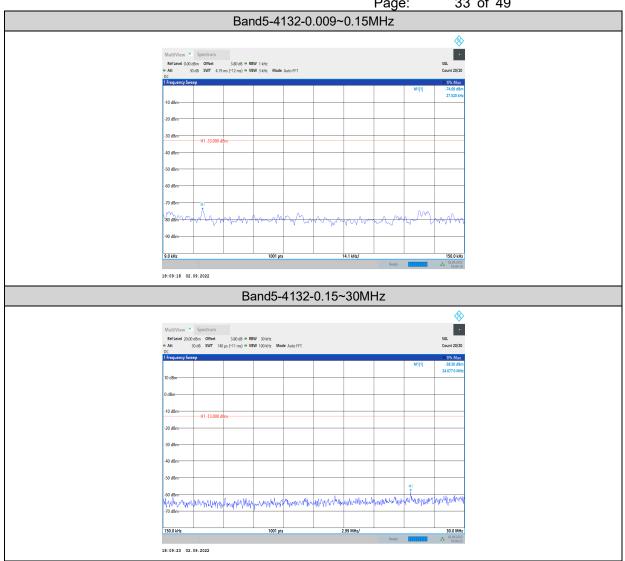
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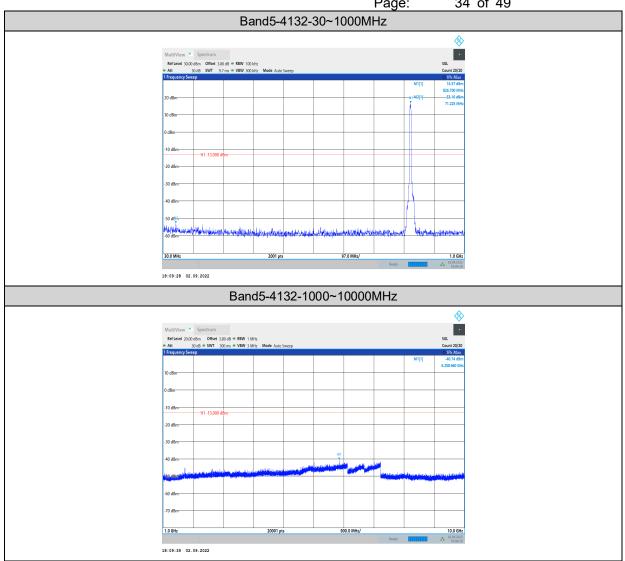
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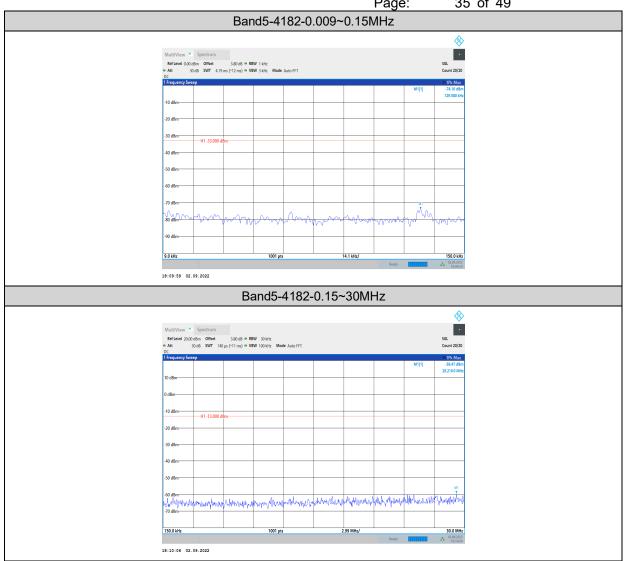
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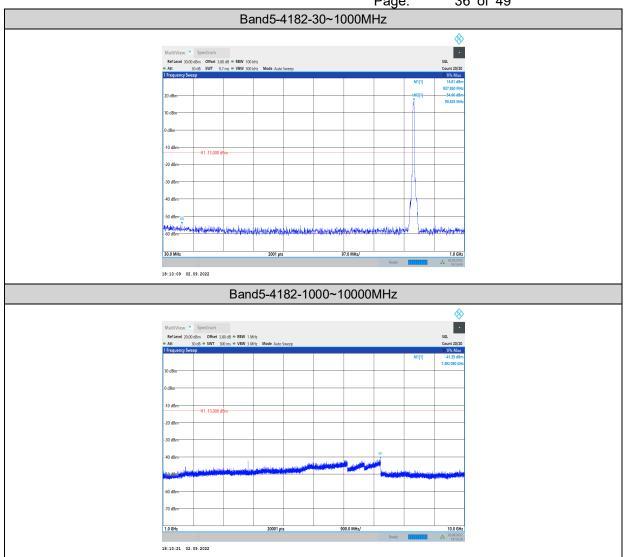
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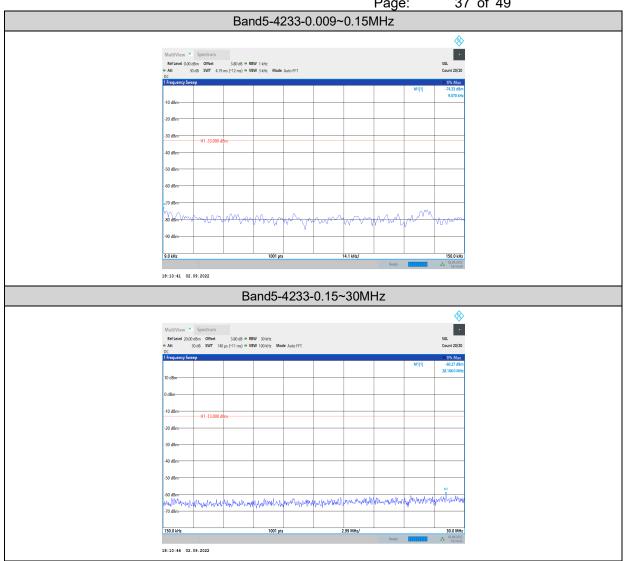
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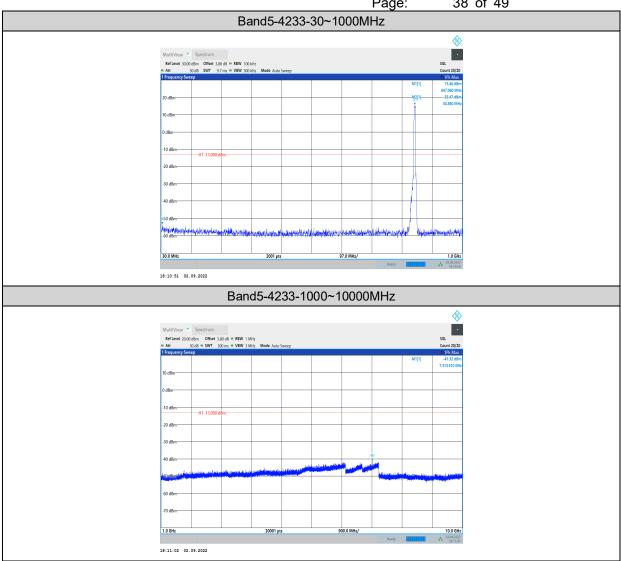
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Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ TM1
Test Channel = Low Channel

Final	l Data List									
NO	Frequency	Reading	Factor	Λ Γ[dD/ma]	Level	Limit	Margin	Height	Angle	Dolovitu
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1652.8	52.27	-48.37	25.57	-65.79	-13.00	50.60	142	10	Horizontal
2	2479.2	52.34	-46.91	27.86	-61.97	-13.00	48.97	263	140	Horizontal
3	3305.6	51.19	-46.12	29.48	-60.71	-13.00	47.71	269	0	Horizontal
4	4132	50.36	-45.31	30.81	-59.40	-13.00	46.40	241	1	Horizontal
5	4958.4	52.20	-45.07	32.50	-55.62	-13.00	42.62	175	250	Horizontal
6	5784.8	51.52	-43.52	33.52	-53.74	-13.00	40.74	266	100	Horizontal

Final	Data List									
NO.	Frequency	Reading	Factor	A E[dP/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1658	60.87	-48.36	25.57	-57.18	-13.00	44.18	203	10	Vertical
2	2479.2	51.25	-46.91	27.86	-63.06	-13.00	50.06	266	261	Vertical
3	3305.6	51.11	-46.12	29.48	-60.79	-13.00	47.79	241	245	Vertical
4	4132	49.51	-45.31	30.81	-60.25	-13.00	47.25	201	112	Vertical
5	4958.4	50.96	-45.07	32.50	-56.86	-13.00	43.86	265	276	Vertical
6	5784.8	50.53	-43.52	33.52	-54.73	-13.00	41.73	296	358	Vertical



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Test Band = WCDMA Band V_ TM1 **Test Channel = Mid Channel**

Final	l Data List									
NO	Frequency	Reading	Factor	Λ Γ[dD/re]	Level	Limit	Margin	Height	Angle	Dolovity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1672.8	56.48	-48.31	25.56	-61.53	-13.00	48.53	251	143	Horizontal
2	2509.2	51.61	-46.79	27.93	-62.51	-13.00	49.51	144	318	Horizontal
3	3345.6	51.08	-46.19	29.46	-60.91	-13.00	47.91	175	238	Horizontal
4	4182	50.34	-45.16	30.89	-59.19	-13.00	46.19	263	127	Horizontal
5	5018.4	51.31	-44.93	32.60	-56.28	-13.00	43.28	265	104	Horizontal
6	5854.8	50.94	-43.34	33.74	-53.92	-13.00	40.92	204	357	Horizontal

Final	l Data List									
NO	Frequency	Reading	Factor	A.E.(-ID/1	Level	Limit	Margin	Height	Angle	Delevite
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1672.8	57.94	-48.31	25.56	-60.07	-13.00	47.07	142	58	Vertical
2	2509.2	51.32	-46.79	27.93	-62.80	-13.00	49.80	263	292	Vertical
3	3345.6	51.92	-46.19	29.46	-60.07	-13.00	47.07	265	121	Vertical
4	4182	50.07	-45.16	30.89	-59.46	-13.00	46.46	299	82	Vertical
5	5018.4	50.06	-44.93	32.60	-57.53	-13.00	44.53	265	198	Vertical
6	5854.8	51.50	-43.34	33.74	-53.36	-13.00	40.36	241	35	Vertical



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Test Band = WCDMA Band V_ TM1 Test Channel = High Channel

Final	Data List									
NO.	Frequency	Reading	Factor	A E[dP/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1693.2	67.05	-48.26	25.55	-50.91	-13.00	37.91	263	14	Horizontal
2	2539.8	52.47	-46.94	28.04	-61.69	-13.00	48.69	265	137	Horizontal
3	3386.4	51.30	-46.26	29.44	-60.77	-13.00	47.77	241	350	Horizontal
4	4233	49.44	-45.11	30.97	-59.96	-13.00	46.96	188	247	Horizontal
5	5079.6	51.64	-44.67	32.60	-55.69	-13.00	42.69	268	14	Horizontal
6	5926.2	51.01	-43.30	33.97	-53.58	-13.00	40.58	299	224	Horizontal

Final	l Data List									
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1693.2	65.00	-48.26	25.55	-52.96	-13.00	39.96	236	3	Vertical
2	2539.8	52.53	-46.94	28.04	-61.63	-13.00	48.63	211	71	Vertical
3	3386.4	50.37	-46.26	29.44	-61.70	-13.00	48.70	142	252	Vertical
4	4233	49.65	-45.11	30.97	-59.75	-13.00	46.75	265	259	Vertical
5	5079.6	50.76	-44.67	32.60	-56.57	-13.00	43.57	284	322	Vertical
6	5926.2	51.37	-43.30	33.97	-53.22	-13.00	40.22	179	32	Vertical



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Test Band = WCDMA Band IV_ TM1 **Test Channel = Low Channel**

Final	Data List									
NO	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3424.8	51.74	-45.87	29.43	-59.96	-13.00	46.96	201	269	Horizontal
2	5137.2	49.58	-44.24	32.60	-57.32	-13.00	44.32	142	357	Horizontal
3	6849.6	47.85	-42.50	35.90	-54.01	-13.00	41.01	263	209	Horizontal
4	8562	45.39	-39.70	38.12	-51.45	-13.00	38.45	295	350	Horizontal
5	10274.4	43.65	-36.76	38.80	-49.57	-13.00	36.57	284	111	Horizontal
6	11986.8	42.38	-35.35	38.61	-49.61	-13.00	36.61	144	100	Horizontal

Final	Data List									
NO.	Frequency	Reading	Factor	A E[dP/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3424.8	50.62	-45.87	29.43	-61.08	-13.00	48.08	202	258	Vertical
2	5137.2	55.37	-44.24	32.60	-51.53	-13.00	38.53	236	112	Vertical
3	6849.6	49.59	-42.50	35.90	-52.27	-13.00	39.27	266	352	Vertical
4	8562	46.51	-39.70	38.12	-50.33	-13.00	37.33	241	332	Vertical
5	10274.4	42.83	-36.76	38.80	-50.39	-13.00	37.39	114	343	Vertical
6	11986.8	42.05	-35.35	38.61	-49.94	-13.00	36.94	268	320	Vertical



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Test Band = WCDMA Band IV_ TM1 **Test Channel = Mid Channel**

Final	Data List									
NO	Frequency	Reading	Factor	Λ Γ[dD/re]	Level	Limit	Margin	Height	Angle	Delevite
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3465.2	50.28	-45.77	29.41	-61.34	-13.00	48.34	142	306	Horizontal
2	5197.8	49.62	-44.15	32.60	-57.19	-13.00	44.19	263	357	Horizontal
3	6930.4	47.69	-42.48	36.06	-53.99	-13.00	40.99	255	171	Horizontal
4	8663	46.27	-39.54	38.23	-50.30	-13.00	37.30	241	196	Horizontal
5	10395.6	42.77	-36.49	38.94	-50.04	-13.00	37.04	102	37	Horizontal
6	12128.2	42.26	-35.20	38.73	-49.47	-13.00	36.47	188	234	Horizontal

Final	Data List									
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3465.2	50.48	-45.77	29.41	-61.14	-13.00	48.14	263	88	Vertical
2	5197.8	50.71	-44.15	32.60	-56.10	-13.00	43.10	251	111	Vertical
3	6930.4	47.93	-42.48	36.06	-53.75	-13.00	40.75	144	14	Vertical
4	8663	48.19	-39.54	38.23	-48.38	-13.00	35.38	188	234	Vertical
5	10395.6	43.08	-36.49	38.94	-49.73	-13.00	36.73	296	221	Vertical
6	12128.2	42.12	-35.20	38.73	-49.61	-13.00	36.61	280	360	Vertical



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Test Band = WCDMA Band IV_ TM1 **Test Channel = High Channel**

Final	Data List									
NO.	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3505.2	50.20	-45.66	29.41	-61.31	-13.00	48.31	144	62	Horizontal
2	5257.8	50.70	-44.07	32.60	-56.03	-13.00	43.03	152	360	Horizontal
3	7010.4	50.03	-42.58	36.21	-51.60	-13.00	38.60	263	147	Horizontal
4	8763	47.15	-39.21	38.34	-48.98	-13.00	35.98	265	316	Horizontal
5	10515.6	42.86	-36.35	39.07	-49.69	-13.00	36.69	284	340	Horizontal
6	12268.2	41.73	-35.12	38.87	-49.78	-13.00	36.78	179	3	Horizontal

Final	l Data List									
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3505.2	49.71	-45.66	29.41	-61.80	-13.00	48.80	201	359	Vertical
2	5257.8	50.07	-44.07	32.60	-56.66	-13.00	43.66	144	235	Vertical
3	7010.4	48.53	-42.58	36.21	-53.10	-13.00	40.10	163	321	Vertical
4	8763	46.50	-39.21	38.34	-49.63	-13.00	36.63	265	223	Vertical
5	10515.6	43.34	-36.35	39.07	-49.21	-13.00	36.21	284	360	Vertical
6	12268.2	41.32	-35.12	38.87	-50.19	-13.00	37.19	179	353	Vertical



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Test Band = WCDMA Band II_ TM1 **Test Channel = Low Channel**

Final	Final Data List												
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3704.8	47.92	-45.69	29.89	-63.13	-13.00	50.13	111	15	Horizontal			
2	5557.2	50.51	-43.87	32.78	-55.84	-13.00	42.84	142	15	Horizontal			
3	7409.6	47.99	-41.94	36.45	-52.77	-13.00	39.77	263	358	Horizontal			
4	9262	46.17	-38.39	38.57	-48.91	-13.00	35.91	255	150	Horizontal			
5	11114.4	43.03	-35.32	39.49	-48.06	-13.00	35.06	201	174	Horizontal			
6	12966.8	42.76	-34.90	39.57	-47.83	-13.00	34.83	189	358	Horizontal			

Final	Final Data List												
NO	Frequency	Reading	Factor	A.E.(-ID/1	Level	Limit	Margin	Height	Angle	Delevite			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3704.8	51.55	-45.69	29.89	-59.50	-13.00	46.50	251	74	Vertical			
2	5557.2	48.98	-43.87	32.78	-57.37	-13.00	44.37	144	49	Vertical			
3	7409.6	48.15	-41.94	36.45	-52.61	-13.00	39.61	163	197	Vertical			
4	9262	45.94	-38.39	38.57	-49.14	-13.00	36.14	268	159	Vertical			
5	11114.4	41.52	-35.32	39.49	-49.57	-13.00	36.57	201	360	Vertical			
6	12966.8	42.13	-34.90	39.57	-48.46	-13.00	35.46	199	360	Vertical			



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Test Band = WCDMA Band II_ TM1 Test Channel = Mid Channel

Final	Final Data List												
NO.	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3760	49.47	-45.54	30.03	-61.30	-13.00	48.30	263	88	Horizontal			
2	5640	50.15	-43.81	33.05	-55.87	-13.00	42.87	251	246	Horizontal			
3	7520	47.48	-41.53	36.54	-52.77	-13.00	39.77	142	14	Horizontal			
4	9400	45.80	-38.16	38.56	-49.06	-13.00	36.06	266	185	Horizontal			
5	11280	42.55	-35.28	39.32	-48.67	-13.00	35.67	298	360	Horizontal			
6	13160	42.25	-34.68	39.70	-47.99	-13.00	34.99	201	285	Horizontal			

Final	Final Data List												
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority			
	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3760	48.62	-45.54	30.03	-62.15	-13.00	49.15	266	26	Vertical			
2	5640	49.14	-43.81	33.05	-56.88	-13.00	43.88	269	260	Vertical			
3	7520	48.53	-41.53	36.54	-51.72	-13.00	38.72	254	26	Vertical			
4	9400	46.21	-38.16	38.56	-48.65	-13.00	35.65	174	38	Vertical			
5	11280	41.71	-35.28	39.32	-49.51	-13.00	36.51	188	260	Vertical			
6	13160	42.75	-34.68	39.70	-47.49	-13.00	34.49	263	124	Vertical			



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Test Band = WCDMA Band II_ TM1 Test Channel = High Channel

Final	Final Data List												
NO.	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3815.2	49.19	-45.44	30.16	-61.35	-13.00	48.35	142	159	Horizontal			
2	5722.8	49.51	-43.67	33.31	-56.11	-13.00	43.11	155	148	Horizontal			
3	7630	49.17	-41.28	36.76	-50.61	-13.00	37.61	263	110	Horizontal			
4	9538	43.31	-38.13	38.55	-51.53	-13.00	38.53	296	320	Horizontal			
5	11445.6	41.01	-35.32	39.15	-50.42	-13.00	37.42	241	359	Horizontal			
6	13353.2	43.35	-35.15	39.81	-47.25	-13.00	34.25	122	307	Horizontal			

Final	Final Data List												
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3815.2	49.16	-45.44	30.16	-61.38	-13.00	48.38	251	26	Vertical			
2	5722.8	49.67	-43.67	33.31	-55.95	-13.00	42.95	144	38	Vertical			
3	7630	48.54	-41.28	36.76	-51.24	-13.00	38.24	163	222	Vertical			
4	9538	43.93	-38.13	38.55	-50.91	-13.00	37.91	265	161	Vertical			
5	11445.6	42.25	-35.32	39.15	-49.18	-13.00	36.18	288	283	Vertical			
6	13353.2	41.78	-35.15	39.81	-48.82	-13.00	35.82	196	99	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

Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9400	VL	NT	-999	-0.531383	PASS
Band2	9400	VN	NT	-999	-0.531383	PASS
Band2	9400	VH	NT	-999	-0.531383	PASS
Band4	1413	VL	NT	-999	-0.576590	PASS
Band4	1413	VN	NT	-999	-0.576590	PASS
Band4	1413	VH	NT	-999	-0.576590	PASS

	Voltage												
Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict						
Band5	4182	VL	NT	-999	-1.194405	±2.5	PASS						
Band5	4182	VN	NT	-999	-1.194405	±2.5	PASS						
Band5	4182	VH	NT	-999	-1.194405	±2.5	PASS						



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Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9400	NV	-30	-999	-0.531383	PASS
Band2	9400	NV	-20	-999	-0.531383	PASS
Band2	9400	NV	0	-999	-0.531383	PASS
Band2	9400	NV	10	-999	-0.531383	PASS
Band2	9400	NV	20	-999	-0.531383	PASS
Band2	9400	NV	30	-999	-0.531383	PASS
Band2	9400	NV	40	-999	-0.531383	PASS
Band2	9400	NV	50	-999	-0.531383	PASS
Band4	1413	NV	-30	-999	-0.576590	PASS
Band4	1413	NV	-20	-999	-0.576590	PASS
Band4	1413	NV	0	-999	-0.576590	PASS
Band4	1413	NV	10	-999	-0.576590	PASS
Band4	1413	NV	20	-999	-0.576590	PASS
Band4	1413	NV	30	-999	-0.576590	PASS
Band4	1413	NV	40	-999	-0.576590	PASS
Band4	1413	NV	50	-999	-0.576590	PASS

	Temperature												
Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict						
Band5	4182	NV	-30	-999	-1.194405	±2.5	PASS						
Band5	4182	NV	-20	-999	-1.194405	±2.5	PASS						
Band5	4182	NV	0	-999	-1.194405	±2.5	PASS						
Band5	4182	NV	10	-999	-1.194405	±2.5	PASS						
Band5	4182	NV	20	-999	-1.194405	±2.5	PASS						
Band5	4182	NV	30	-999	-1.194405	±2.5	PASS						
Band5	4182	NV	40	-999	-1.194405	±2.5	PASS						
Band5	4182	NV	50	-999	-1.194405	±2.5	PASS						

---End of Attachment---



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