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Appendix B.2

WCDMA Band II&IV&V





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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	19.55	23.09	33	PASS
Band II	9400	19.51	23.05	33	PASS
Band II	9538	19.42	22.96	33	PASS
Band IV	1312	19.72	22.95	30	PASS
Band IV	1413	19.88	23.11	30	PASS
Band IV	1513	19.79	23.02	30	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.02	22.59	38.5	PASS
Band V	4182	23.17	22.74	38.5	PASS
Band V	4233	23.11	22.68	38.5	PASS





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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band II	9262	3.06	13	PASS
Band II	9400	3.04	13	PASS
Band II	9538	1.78	13	PASS
Band IV	1312	2.74	13	PASS
Band IV	1413	3.12	13	PASS
Band IV	1513	2.94	13	PASS
Band V	4132	2.26	13	PASS
Band V	4182	1.78	13	PASS
Band V	4233	2.26	13	PASS



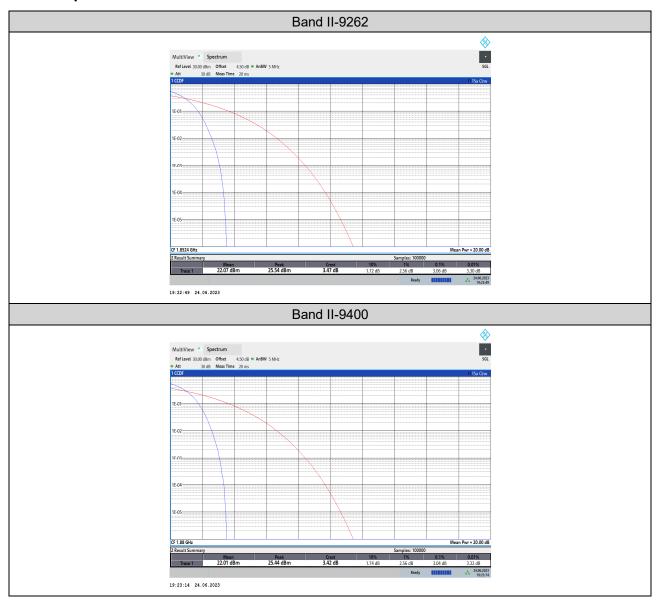


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Test Graphs

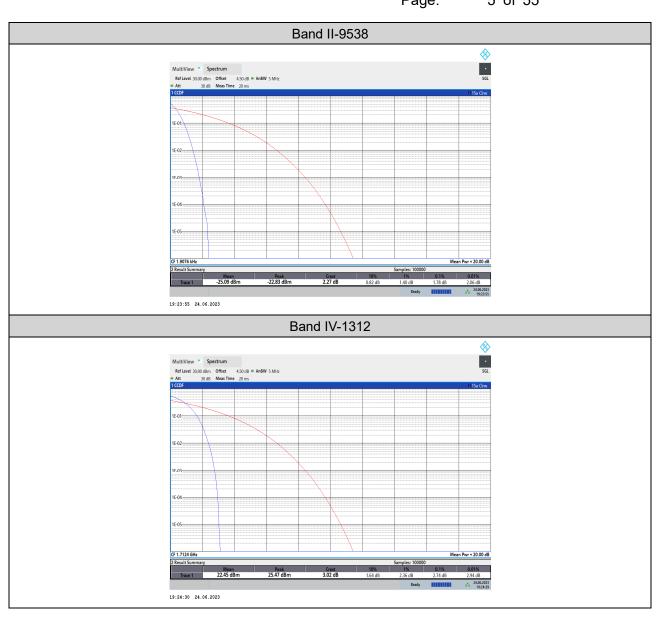






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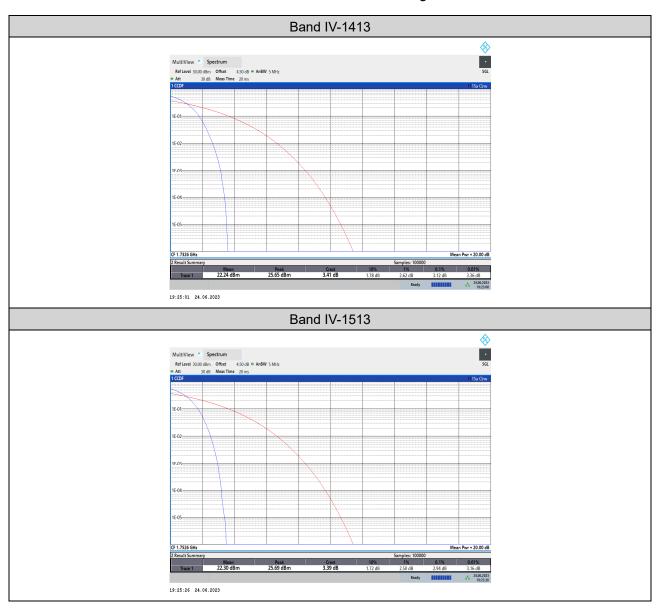
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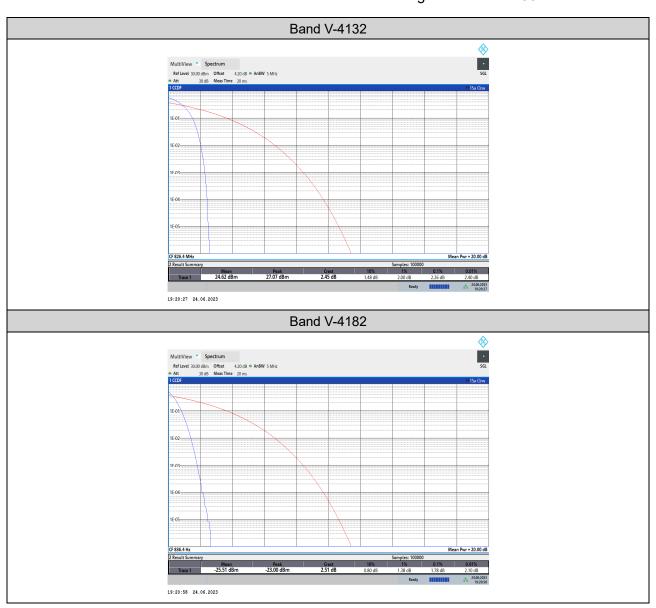
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Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band II	9400	PASS	PASS
Band IV	1413	PASS	PASS
Band V	4182	PASS	PASS

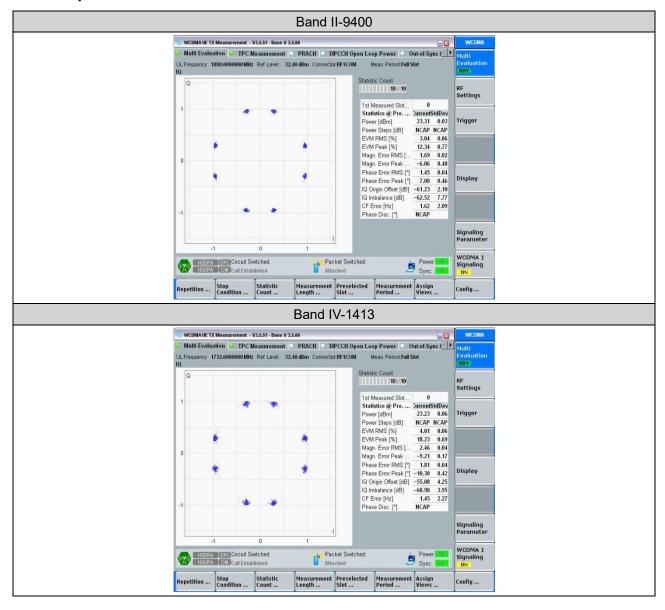


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Test Graphs



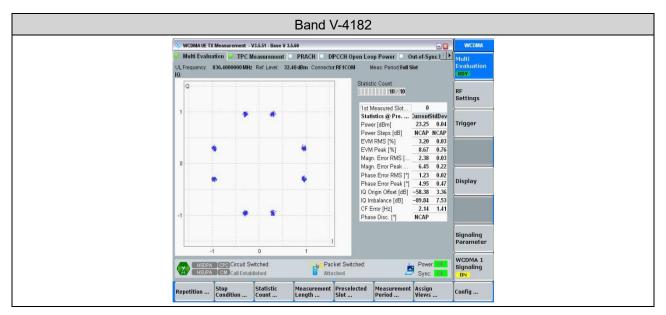




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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4.181	4.74		PASS
Band II	9400	4.188	4.73		PASS
Band II	9538	4.188	4.73		PASS
Band IV	1312	4.159	4.74		PASS
Band IV	1413	4.163	4.71		PASS
Band IV	1513	4.170	4.73		PASS
Band V	4132	4.193	4.79		PASS
Band V	4182	4.171	4.73		PASS
Band V	4233	4.186	4.78		PASS



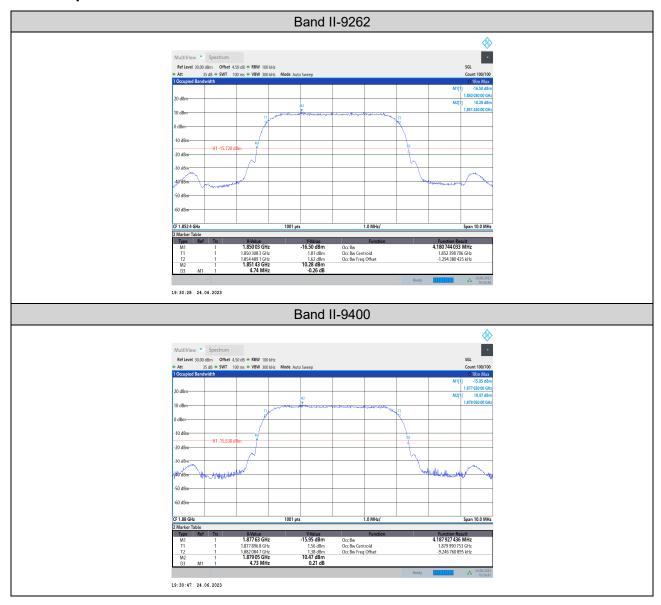


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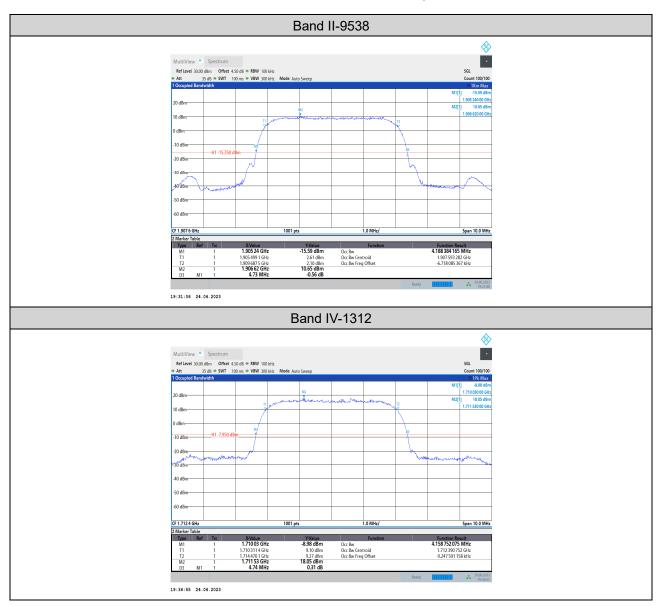




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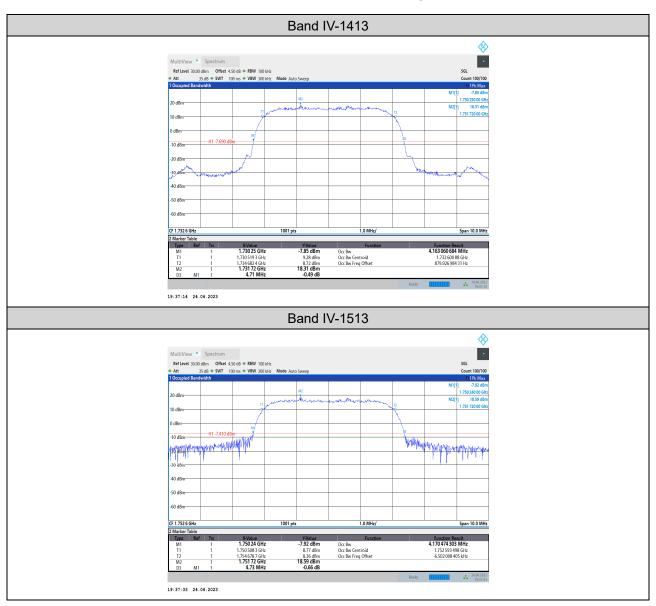
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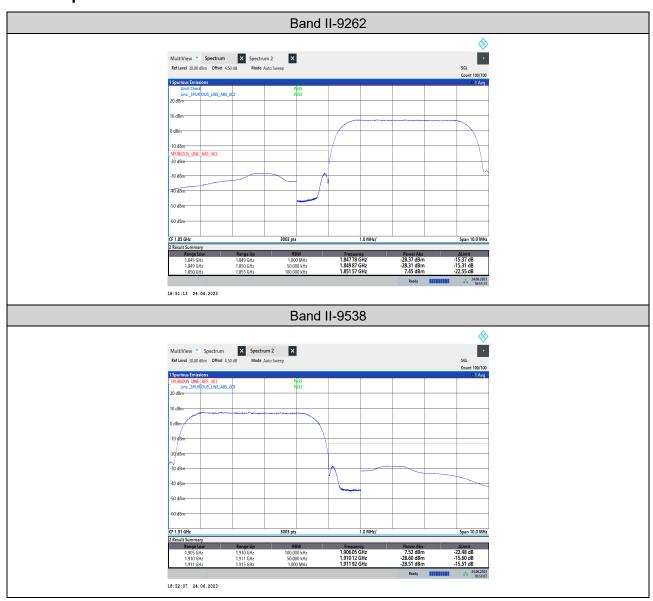
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Band Edge

Test Graphs



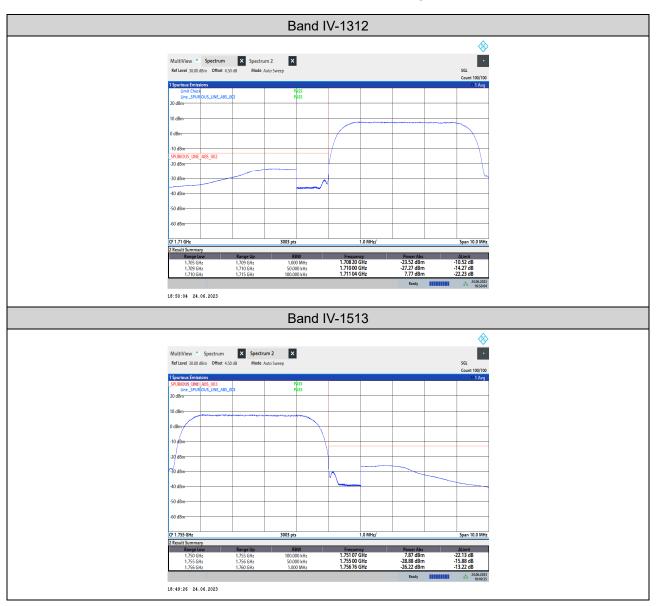




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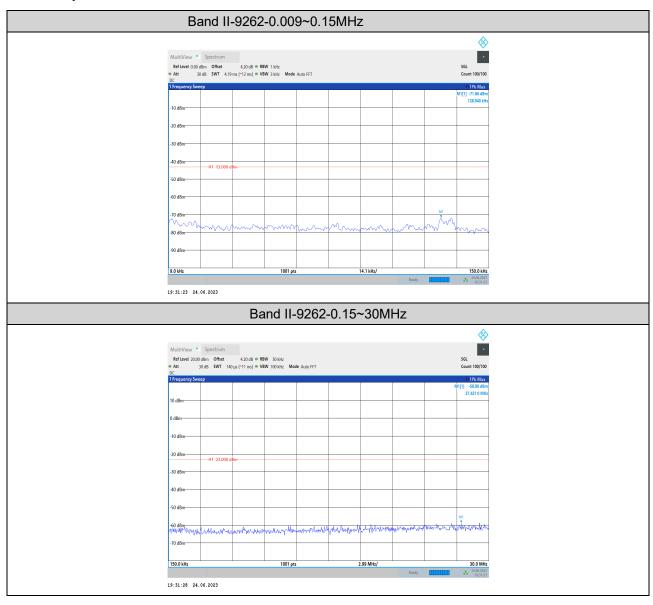
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Conducted Spurious Emission

Test Graphs



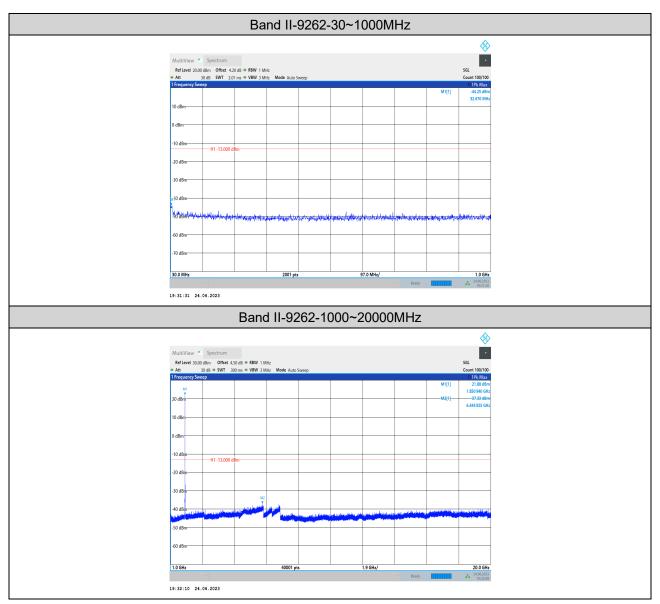




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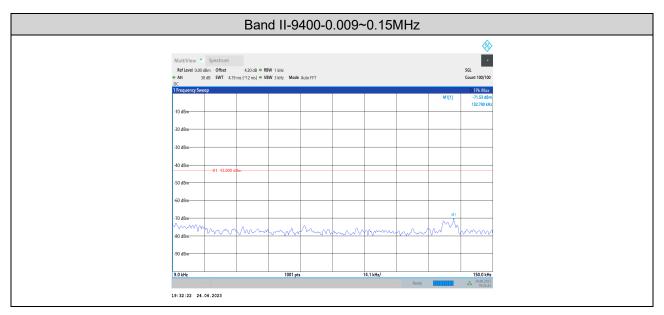
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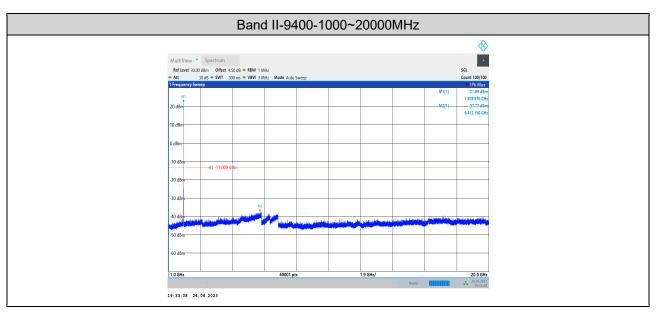
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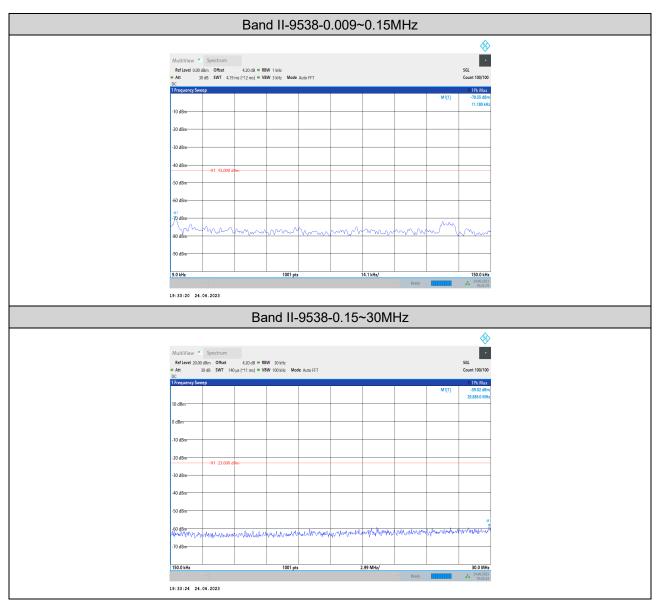
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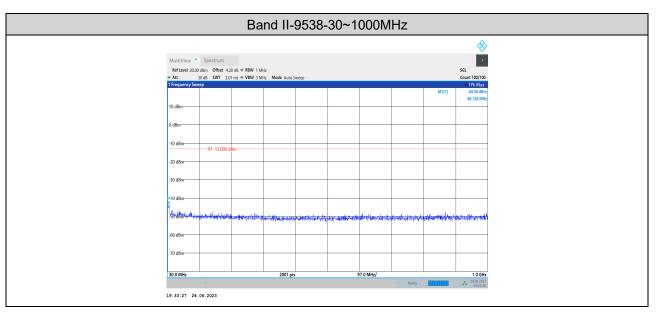
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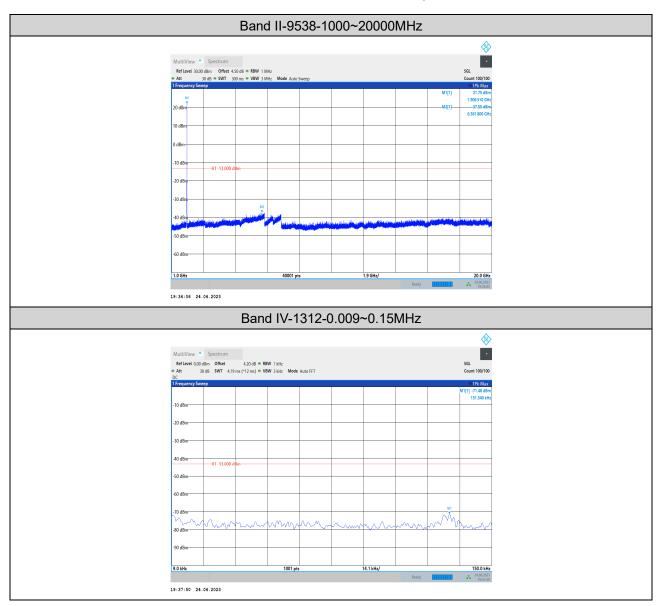
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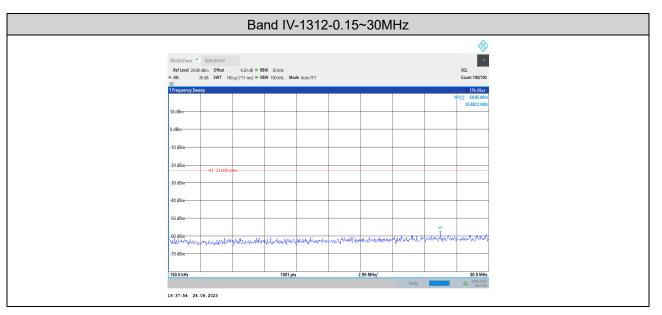
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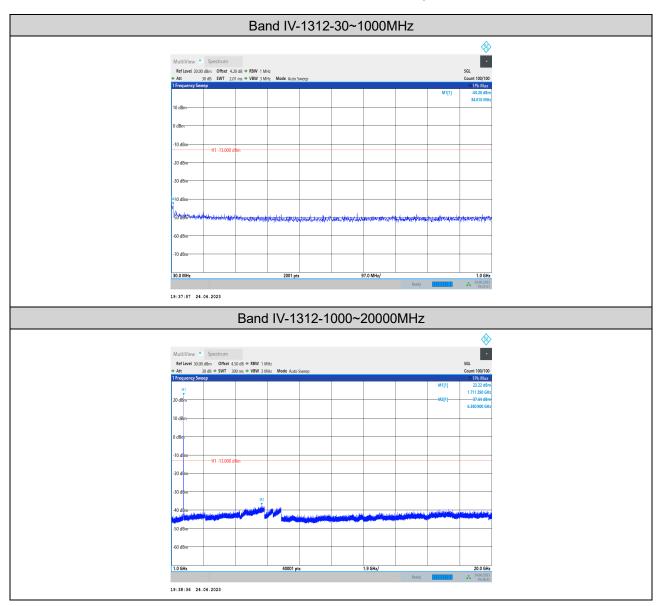
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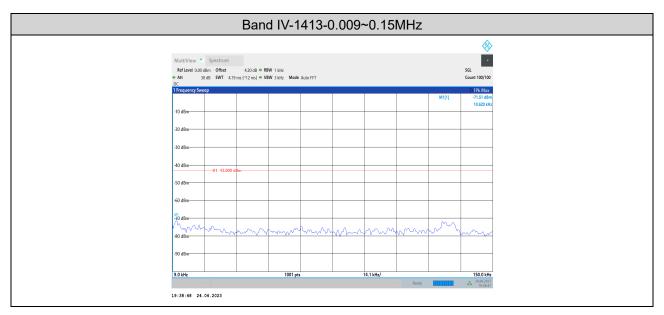
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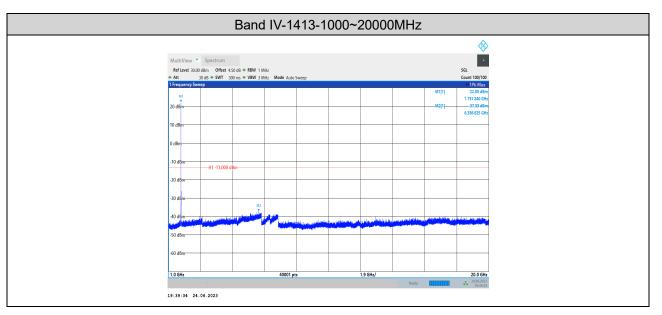
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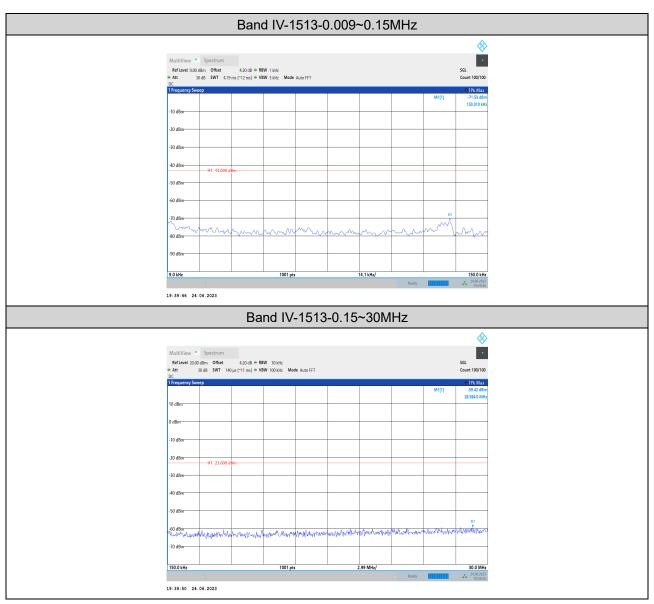




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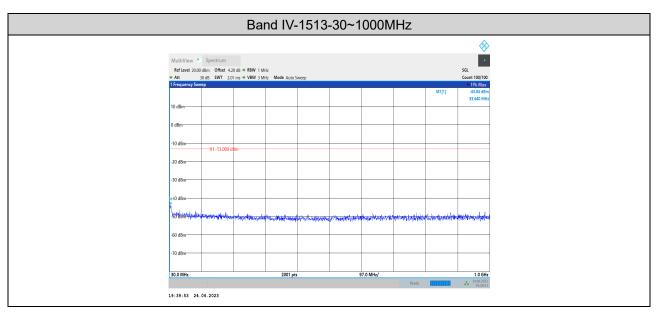
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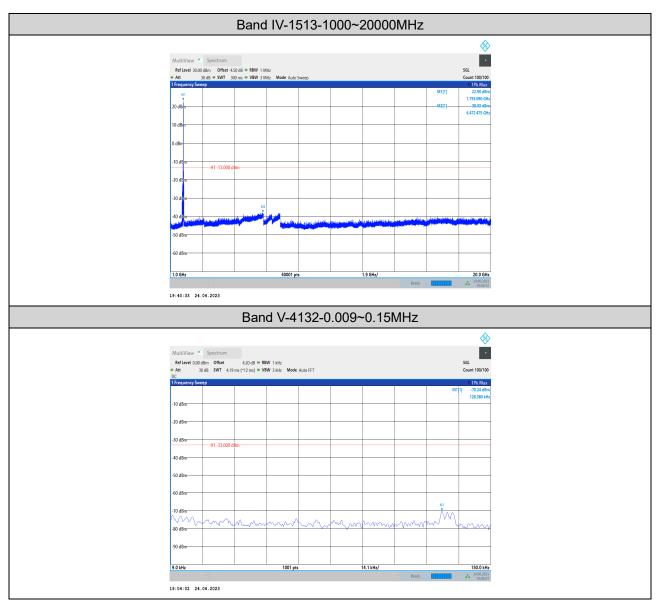
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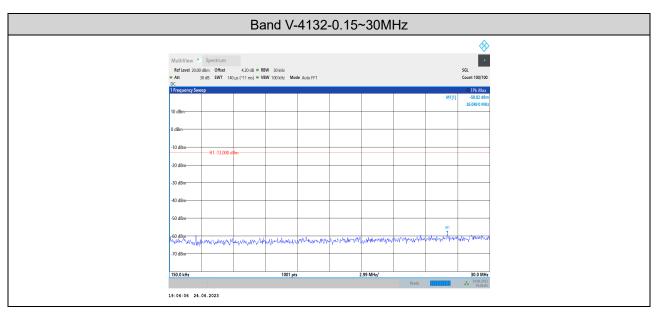




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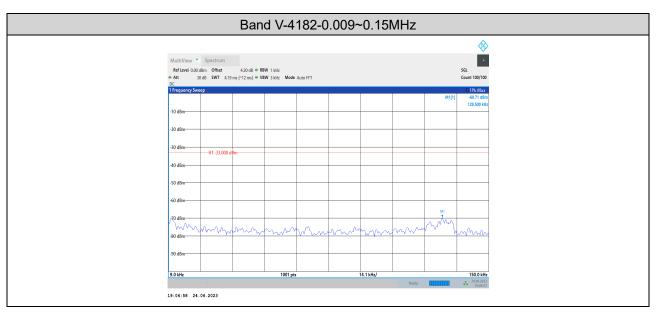
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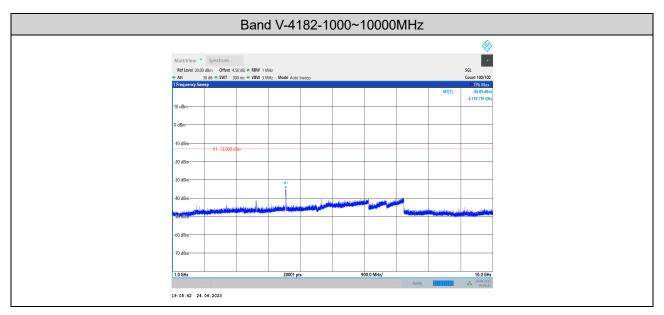




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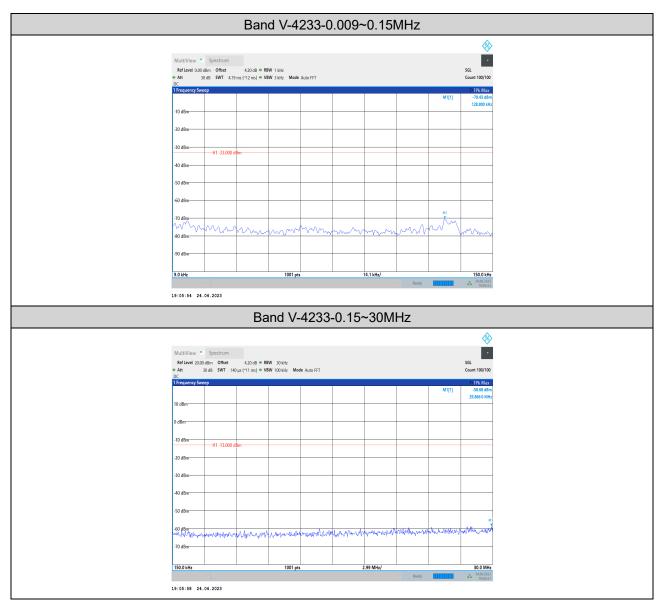
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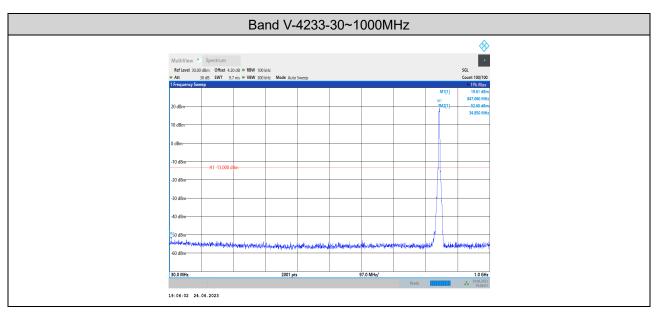
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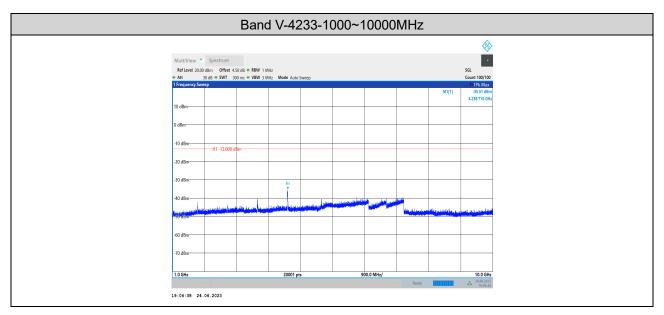
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Field Strength of Spurious Radiation

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

Fina	l Data List									
NO	Frequency	Reading	Factor	Λ Γ[-ID /1	Level	Limit	Margin	Height	Angle	Dalavita
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3704.8000	40.72	-45.52	28.81	-71.26	-13.00	58.26	144	12	Horizontal
2	5557.2000	39.44	-45.14	32.61	-68.35	-13.00	55.35	258	313	Horizontal
3	7409.6000	39.30	-43.38	36.35	-63.00	-13.00	50.00	169	258	Horizontal
4	9262.0000	34.38	-40.23	36.80	-64.31	-13.00	51.31	231	234	Horizontal
5	11114.4000	30.03	-37.88	38.71	-64.40	-13.00	51.40	112	77	Horizontal
6	17844	32.27	-34.58	46.10	-51.47	-13.00	38.47	103	168	Horizontal

Fina	l 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	3704.8000	39.90	-45.52	28.81	-72.08	-13.00	59.08	147	116	Vertical
2	5557.2000	40.23	-45.14	32.61	-67.56	-13.00	54.56	256	283	Vertical
3	7409.6000	38.70	-43.38	36.35	-63.60	-13.00	50.60	144	340	Vertical
4	9262.0000	34.28	-40.23	36.80	-64.41	-13.00	51.41	132	3	Vertical
5	11114.4000	30.16	-37.88	38.71	-64.27	-13.00	51.27	122	238	Vertical
6	17850.75	31.76	-34.57	46.13	-51.94	-13.00	38.94	235	328	Vertical





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Test Band = WCDMA Band II_ TM1 Test Channel = Mid

Fina	l Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	AF[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polatily
1	3760.0000	40.88	-45.75	28.86	-71.27	-13.00	58.27	102	111	Horizontal
2	5640.0000	39.40	-44.98	32.63	-68.21	-13.00	55.21	187	98	Horizontal
3	7520.0000	38.58	-43.10	36.61	-63.17	-13.00	50.17	169	211	Horizontal
4	9400.0000	33.74	-39.83	37.06	-64.29	-13.00	51.29	132	1	Horizontal
5	11280.0000	30.34	-37.41	38.73	-63.61	-13.00	50.61	112	31	Horizontal
6	17747.25	31.86	-34.31	45.66	-52.05	-13.00	39.05	142	234	Horizontal

Fina	l 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	3760.0000	40.72	-45.75	28.86	-71.43	-13.00	58.43	115	58	Vertical
2	5640.0000	40.46	-44.98	32.63	-67.15	-13.00	54.15	254	14	Vertical
3	7520.0000	39.84	-43.10	36.61	-61.91	-13.00	48.91	169	14	Vertical
4	9400.0000	33.03	-39.83	37.06	-65.00	-13.00	52.00	231	349	Vertical
5	11280.0000	30.82	-37.41	38.73	-63.13	-13.00	50.13	121	58	Vertical
6	17969.25	31.54	-34.56	46.66	-51.62	-13.00	38.62	114	161	Vertical





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Test Band = WCDMA Band II_ TM1 Test Channel = High

Fina	l Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	AF[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polatity
1	3815.2000	40.27	-45.97	28.92	-72.05	-13.00	59.05	102	1	Horizontal
2	5722.8000	39.28	-44.83	32.64	-68.16	-13.00	55.16	158	188	Horizontal
3	7630.0000	38.43	-42.99	36.65	-63.17	-13.00	50.17	169	86	Horizontal
4	9538.0000	32.65	-40.01	37.32	-65.30	-13.00	52.30	223	188	Horizontal
5	11445.6000	30.14	-37.34	38.74	-63.72	-13.00	50.72	145	165	Horizontal
6	17748	31.68	-34.32	45.67	-52.23	-13.00	39.23	125	210	Horizontal

Fina	l Data List									
NO	Frequency	Reading	Factor	Λ.ΓID/1	Level	Limit	Margin	Height	Angle	Delevite
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3815.2000	41.01	-45.97	28.92	-71.31	-13.00	58.31	112	69	Vertical
2	5722.8000	39.30	-44.83	32.64	-68.14	-13.00	55.14	187	360	Vertical
3	7630.0000	39.62	-42.99	36.65	-61.98	-13.00	48.98	269	14	Vertical
4	9538.0000	32.90	-40.01	37.32	-65.05	-13.00	52.05	144	3	Vertical
5	11445.6000	30.18	-37.34	38.74	-63.68	-13.00	50.68	132	204	Vertical
6	17745.75	32.59	-34.30	45.66	-51.32	-13.00	38.32	155	92	Vertical





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Test Band = WCDMA Band IV_ TM1 Test Channel = Low

Fina	l 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	3426.75	47.19	-46.27	28.56	-65.79	-13.00	52.79	155	133	Horizontal
2	5137.2000	38.73	-45.34	31.73	-70.14	-13.00	57.14	187	356	Horizontal
3	6849.6000	38.62	-44.14	34.93	-65.85	-13.00	52.85	263	313	Horizontal
4	8562.0000	34.84	-41.44	36.52	-65.34	-13.00	52.34	144	18	Horizontal
5	10274.4000	33.11	-39.19	38.34	-63.01	-13.00	50.01	121	356	Horizontal
6	17916.75	31.88	-34.52	46.43	-51.48	-13.00	38.48	158	52	Horizontal

Fina	l 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	3426	45.45	-46.27	28.56	-67.53	-13.00	54.53	154	70	Vertical
2	5137.2000	39.03	-45.34	31.73	-69.84	-13.00	56.84	269	297	Vertical
3	6849.6000	39.14	-44.14	34.93	-65.33	-13.00	52.33	132	329	Vertical
4	8562.0000	35.50	-41.44	36.52	-64.68	-13.00	51.68	142	36	Vertical
5	10274.4000	31.51	-39.19	38.34	-64.61	-13.00	51.61	251	24	Vertical
6	17853.75	31.41	-34.57	46.14	-52.27	-13.00	39.27	187	360	Vertical





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Test Band = WCDMA Band IV_ TM1 Test Channel = Mid

Fina	l 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	3463.5	50.74	-46.27	28.58	-62.21	-13.00	49.21	112	55	Horizontal
2	5197.8000	40.29	-45.28	31.88	-68.38	-13.00	55.38	103	223	Horizontal
3	6930.4000	39.14	-43.93	35.08	-64.98	-13.00	51.98	158	32	Horizontal
4	8663.0000	35.89	-41.56	36.47	-64.46	-13.00	51.46	269	357	Horizontal
5	10395.6000	31.45	-39.01	38.40	-64.43	-13.00	51.43	214	178	Horizontal
6	14317.5	29.96	-35.92	41.03	-60.20	-13.00	47.20	104	223	Horizontal

Fina	l 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]	[°]	Polatity
1	3463.5	47.85	-46.27	28.58	-65.10	-13.00	52.10	169	83	Vertical
2	5197.8000	39.51	-45.28	31.88	-69.16	-13.00	56.16	112	356	Vertical
3	6930.4000	39.37	-43.93	35.08	-64.75	-13.00	51.75	256	230	Vertical
4	8663.0000	35.97	-41.56	36.47	-64.38	-13.00	51.38	133	254	Vertical
5	10395.6000	31.63	-39.01	38.40	-64.25	-13.00	51.25	261	196	Vertical
6	13674.75	30.90	-36.14	40.31	-60.19	-13.00	47.19	187	218	Vertical





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Test Band = WCDMA Band IV_ TM1 Test Channel = High

Fina	l 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	3504	49.59	-46.25	28.60	-63.32	-13.00	50.32	103	130	Horizontal
2	5257.8000	40.08	-45.17	32.02	-68.33	-13.00	55.33	154	291	Horizontal
3	7010.4000	38.48	-43.62	35.23	-65.17	-13.00	52.17	158	4	Horizontal
4	8763.0000	35.56	-41.41	36.42	-64.69	-13.00	51.69	231	356	Horizontal
5	10515.6000	31.75	-38.75	38.46	-63.80	-13.00	50.80	154	188	Horizontal
6	14561.25	28.51	-35.12	41.12	-60.74	-13.00	47.74	142	278	Horizontal

Fina	l Data List									
NO	Frequency	Reading	Factor	V [[qD/22]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3503.25	48.63	-46.26	28.60	-64.28	-13.00	51.28	121	83	Vertical
2	5257.8000	39.77	-45.17	32.02	-68.64	-13.00	55.64	258	308	Vertical
3	7010.4000	38.50	-43.62	35.23	-65.15	-13.00	52.15	132	128	Vertical
4	8763.0000	35.33	-41.41	36.42	-64.92	-13.00	51.92	111	205	Vertical
5	10515.6000	31.15	-38.75	38.46	-64.40	-13.00	51.40	251	238	Vertical
6	14331	29.84	-35.74	41.03	-60.13	-13.00	47.13	114	162	Vertical





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Test Band = WCDMA Band V_ TM1 Test Channel = Low

Fina	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]	[°]	Polatity			
1	1654.8571	66.20	-48.21	25.28	-51.99	-13.00	38.99	142	58	Horizontal			
2	2481.1429	44.97	-47.30	27.25	-70.35	-13.00	57.35	269	258	Horizontal			
3	3309.7143	53.71	-46.67	28.49	-59.73	-13.00	46.73	132	138	Horizontal			
4	4138.2857	53.06	-45.92	29.43	-58.69	-13.00	45.69	144	188	Horizontal			
5	4958.4000	42.66	-45.72	31.31	-67.01	-13.00	54.01	121	357	Horizontal			
6	7427.4286	39.70	-43.31	36.40	-62.47	-13.00	49.47	158	228	Horizontal			

Fina	Final Data List												
NO.	Frequency	Reading	Factor	Λ.ΓI.D./1	Level	Limit	Margin	Height	Angle	Delevite			
	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1654.8571	61.02	-48.21	25.28	-57.17	-13.00	44.17	125	151	Vertical			
2	2479.2000	43.23	-47.31	27.24	-72.09	-13.00	59.09	258	4	Vertical			
3	3310.2857	47.44	-46.67	28.49	-66.00	-13.00	53.00	169	213	Vertical			
4	4137.7143	46.29	-45.92	29.43	-65.46	-13.00	52.46	132	122	Vertical			
5	4958.4000	41.60	-45.72	31.31	-68.07	-13.00	55.07	144	359	Vertical			
6	7448	40.70	-43.34	36.45	-61.45	-13.00	48.45	241	12	Vertical			





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Test Band = WCDMA Band V_ TM1 Test Channel = Mid

Fina	Final Data List												
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	AF[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polatity			
1	1670.8571	62.69	-48.19	25.31	-55.46	-13.00	42.46	114	70	Horizontal			
2	2509.2000	44.38	-47.24	27.32	-70.80	-13.00	57.80	132	82	Horizontal			
3	3342.8571	59.93	-46.62	28.51	-53.44	-13.00	40.44	126	135	Horizontal			
4	4177.1429	55.90	-45.95	29.53	-55.78	-13.00	42.78	236	188	Horizontal			
5	5020	43.22	-45.72	31.45	-66.32	-13.00	53.32	144	18	Horizontal			
6	7522.2857	42.52	-43.32	36.61	-59.45	-13.00	46.45	254	176	Horizontal			

Fina	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	1670.8571	58.38	-48.19	25.31	-59.77	-13.00	46.77	103	129	Vertical			
2	2509.2000	43.16	-47.24	27.32	-72.02	-13.00	59.02	251	196	Vertical			
3	3342.8571	52.44	-46.62	28.51	-60.93	-13.00	47.93	144	196	Vertical			
4	4177.7143	49.95	-45.95	29.53	-61.73	-13.00	48.73	132	103	Vertical			
5	5018.4000	41.29	-45.73	31.45	-68.25	-13.00	55.25	142	170	Vertical			
6	7522.8571	46.17	-43.32	36.61	-55.80	-13.00	42.80	269	13	Vertical			



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Test Band = WCDMA Band V_TM1 Test Channel = High

Final	Final Data List												
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	AF[db/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Folality			
1	1691.4286	66.73	-48.17	25.34	-51.36	-13.00	38.36	158	58	Horizontal			
2	2536.5714	46.19	-47.15	27.37	-68.84	-13.00	55.84	163	1	Horizontal			
3	3383.4286	64.95	-46.56	28.53	-48.34	-13.00	35.34	264	124	Horizontal			
4	4228.5714	56.61	-45.91	29.65	-54.91	-13.00	41.91	155	178	Horizontal			
5	5079.6000	42.65	-45.47	31.59	-66.48	-13.00	53.48	187	164	Horizontal			
6	7626.8571	40.53	-43.04	36.65	-61.12	-13.00	48.12	231	188	Horizontal			

Fina	Final Data List												
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	AF[db/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1691.4286	61.27	-48.17	25.34	-56.82	-13.00	43.82	112	129	Vertical			
2	2539.8000	42.86	-47.13	27.38	-72.15	-13.00	59.15	189	117	Vertical			
3	3383.4286	56.56	-46.56	28.53	-56.73	-13.00	43.73	231	209	Vertical			
4	4228.5714	51.28	-45.91	29.65	-60.24	-13.00	47.24	145	170	Vertical			
5	5077.7143	44.48	-45.48	31.59	-64.67	-13.00	51.67	266	53	Vertical			
6	7629.1429	42.88	-43.05	36.65	-58.78	-13.00	45.78	132	12	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						
Band II	9400	VL	NT	-8.46	-0.004500	PASS						
Band II	9400	VN	NT	-14.04	-0.007468	PASS						
Band II	9400	VH	NT	-9.33	-0.004963	PASS						
Band IV	1413	VL	NT	-9.03	-0.005212	PASS						
Band IV	1413	VN	NT	-11.57	-0.006678	PASS						
Band IV	1413	VH	NT	-12.02	-0.006938	PASS						

	Voltage												
Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict						
Band V	4182	VL	NT	-9.58	-0.011454	±2.5	PASS						
Band V	4182	VN	NT	-8.41	-0.010055	±2.5	PASS						
Band V	4182	VH	NT	-13.73	-0.016416	±2.5	PASS						





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			Tempera	ature		
Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	-9.92	-0.005277	PASS
Band II	9400	NV	-20	-10.36	-0.005511	PASS
Band II	9400	NV	-10	-9.15	-0.004867	PASS
Band II	9400	NV	0	-11.00	-0.005851	PASS
Band II	9400	NV	10	-12.28	-0.006532	PASS
Band II	9400	NV	20	-15.39	-0.008186	PASS
Band II	9400	NV	30	-14.26	-0.007585	PASS
Band II	9400	NV	40	-13.97	-0.007431	PASS
Band II	9400	NV	50	-11.77	-0.006793	PASS
Band IV	1413	NV	-30	-8.40	-0.004848	PASS
Band IV	1413	NV	-20	-12.04	-0.006949	PASS
Band IV	1413	NV	-10	-10.44	-0.006026	PASS
Band IV	1413	NV	0	-8.93	-0.005154	PASS
Band IV	1413	NV	10	-7.66	-0.004421	PASS
Band IV	1413	NV	20	-9.46	-0.005460	PASS
Band IV	1413	NV	30	-9.74	-0.005622	PASS
Band IV	1413	NV	40	-9.63	-0.005265	PASS
Band IV	1413	NV	50	-10.12	-0.005365	PASS

			Ter	mperature			
Band	Channel	Voltage (Vdc)	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-9.81	-0.011729	±2.5	PASS
Band V	4182	NV	-20	-7.45	-0.008907	±2.5	PASS
Band V	4182	NV	-10	-4.81	-0.005751	±2.5	PASS
Band V	4182	NV	0	-10.66	-0.012745	±2.5	PASS
Band V	4182	NV	10	-12.46	-0.014897	±2.5	PASS
Band V	4182	NV	20	-11.01	-0.013164	±2.5	PASS
Band V	4182	NV	30	-6.72	-0.008034	±2.5	PASS
Band V	4182	NV	40	-6.96	-0.008321	±2.5	PASS
Band V	4182	NV	50	-9.24	-0.013589	±2.5	PASS

---End of Attachment---



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