

APPENDIX REPORT

Project No.	SHT2202058401EW	Radio Specification	WCDMA
Test sample No.	YPHT22020584001	Model No.	U55
Start test date	2022/3/4	Finish date	2022/3/4
Temperature	23.4℃	Humidity	38%
Test Engineer	Tiancheng.Huang	Auditor	<i>Xiaodong Zhe</i>

Appendix clause	Test item	Result
A	Conducted Output Power	PASS
B	Peak-to-Average Ratio	PASS
C	26 dB Bandwidth and Occupied Bandwidth	PASS
D	Band edge	PASS
E	Conducted Spurious Emission	PASS
F	Frequency Stability	PASS
G	ERP and EIRP	PASS

8.1 Appendix A: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	21.88	33	PASS
Band II	9400	22.00	33	PASS
Band II	9538	21.87	33	PASS
Band V	4132	23.11	38.5	PASS
Band V	4182	23.11	38.5	PASS
Band V	4233	22.81	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	21.04	33	PASS
Band II	9262	HSDPA_Sub2	20.53	33	PASS
Band II	9262	HSDPA_Sub3	20.57	33	PASS
Band II	9262	HSDPA_Sub4	20.56	33	PASS
Band II	9400	HSDPA_Sub1	21.27	33	PASS
Band II	9400	HSDPA_Sub2	20.71	33	PASS
Band II	9400	HSDPA_Sub3	20.78	33	PASS
Band II	9400	HSDPA_Sub4	20.75	33	PASS
Band II	9538	HSDPA_Sub1	21.20	33	PASS
Band II	9538	HSDPA_Sub2	20.68	33	PASS
Band II	9538	HSDPA_Sub3	20.72	33	PASS
Band II	9538	HSDPA_Sub4	20.67	33	PASS
Band V	4132	HSDPA_Sub1	21.51	38.5	PASS
Band V	4132	HSDPA_Sub2	20.99	38.5	PASS
Band V	4132	HSDPA_Sub3	21.03	38.5	PASS
Band V	4132	HSDPA_Sub4	21.04	38.5	PASS
Band V	4182	HSDPA_Sub1	21.61	38.5	PASS
Band V	4182	HSDPA_Sub2	21.08	38.5	PASS
Band V	4182	HSDPA_Sub3	21.11	38.5	PASS
Band V	4182	HSDPA_Sub4	21.09	38.5	PASS
Band V	4233	HSDPA_Sub1	21.31	38.5	PASS
Band V	4233	HSDPA_Sub2	20.77	38.5	PASS
Band V	4233	HSDPA_Sub3	20.83	38.5	PASS
Band V	4233	HSDPA_Sub4	20.76	38.5	PASS

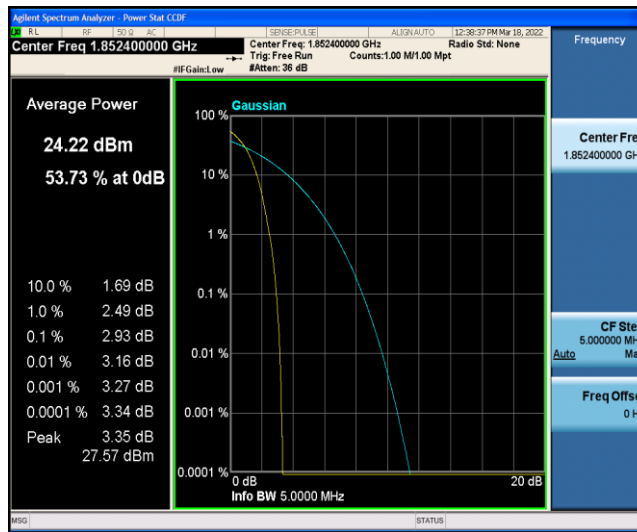
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	18.76	33	PASS
Band II	9262	HSUPA_Sub2	19.34	33	PASS
Band II	9262	HSUPA_Sub3	19.89	33	PASS
Band II	9262	HSUPA_Sub4	18.93	33	PASS
Band II	9262	HSUPA_Sub5	20.95	33	PASS
Band II	9400	HSUPA_Sub1	19.11	33	PASS
Band II	9400	HSUPA_Sub2	19.63	33	PASS
Band II	9400	HSUPA_Sub3	20.15	33	PASS
Band II	9400	HSUPA_Sub4	19.19	33	PASS
Band II	9400	HSUPA_Sub5	21.15	33	PASS
Band II	9538	HSUPA_Sub1	19.10	33	PASS
Band II	9538	HSUPA_Sub2	19.64	33	PASS
Band II	9538	HSUPA_Sub3	20.10	33	PASS
Band II	9538	HSUPA_Sub4	19.16	33	PASS
Band II	9538	HSUPA_Sub5	21.17	33	PASS
Band V	4132	HSUPA_Sub1	19.63	38.5	PASS
Band V	4132	HSUPA_Sub2	20.10	38.5	PASS
Band V	4132	HSUPA_Sub3	20.53	38.5	PASS
Band V	4132	HSUPA_Sub4	19.60	38.5	PASS
Band V	4132	HSUPA_Sub5	21.61	38.5	PASS
Band V	4182	HSUPA_Sub1	19.67	38.5	PASS
Band V	4182	HSUPA_Sub2	20.17	38.5	PASS
Band V	4182	HSUPA_Sub3	20.67	38.5	PASS
Band V	4182	HSUPA_Sub4	19.72	38.5	PASS
Band V	4182	HSUPA_Sub5	21.64	38.5	PASS
Band V	4233	HSUPA_Sub1	19.41	38.5	PASS
Band V	4233	HSUPA_Sub2	19.87	38.5	PASS
Band V	4233	HSUPA_Sub3	20.31	38.5	PASS
Band V	4233	HSUPA_Sub4	19.37	38.5	PASS
Band V	4233	HSUPA_Sub5	21.39	38.5	PASS

8.2 Appendix B: Peak-to-Average Ratio

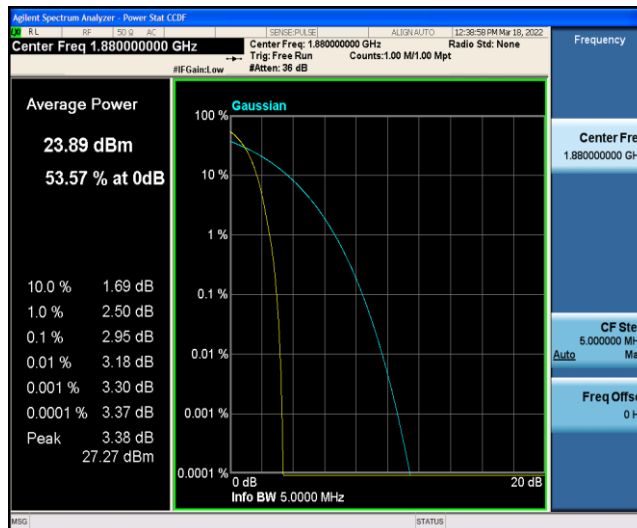
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.93	13	PASS
Band II	9400	2.95	13	PASS
Band II	9538	2.90	13	PASS
Band V	4132	3.08	13	PASS
Band V	4182	2.98	13	PASS
Band V	4233	3.02	13	PASS

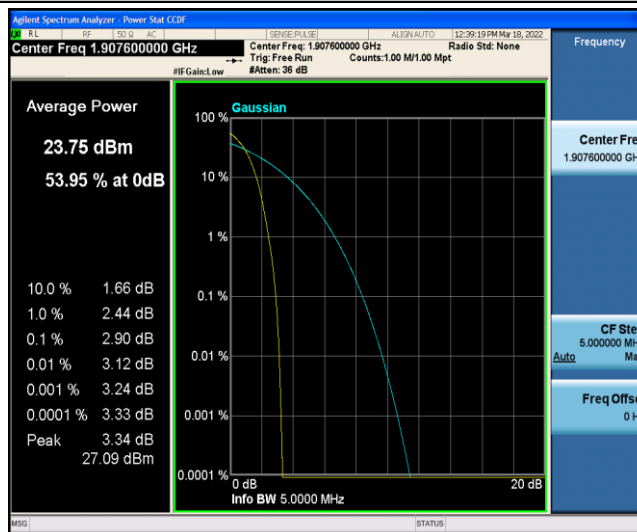
Test Graphs



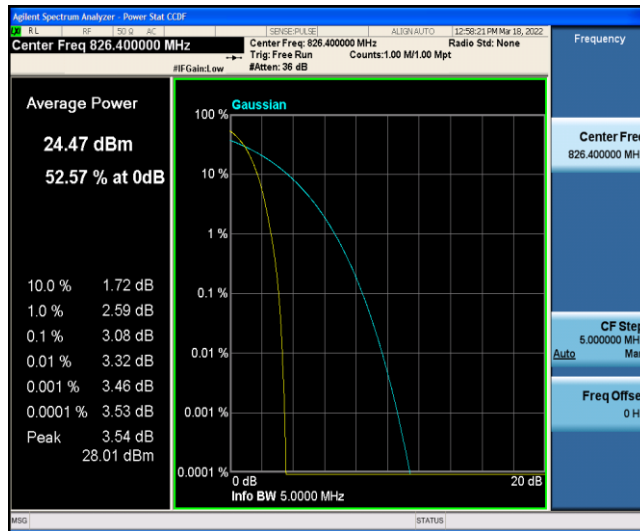
Band II_9262



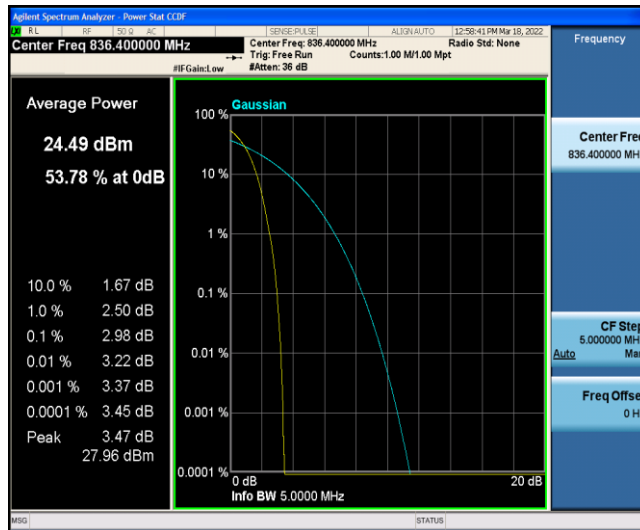
Band II_9400



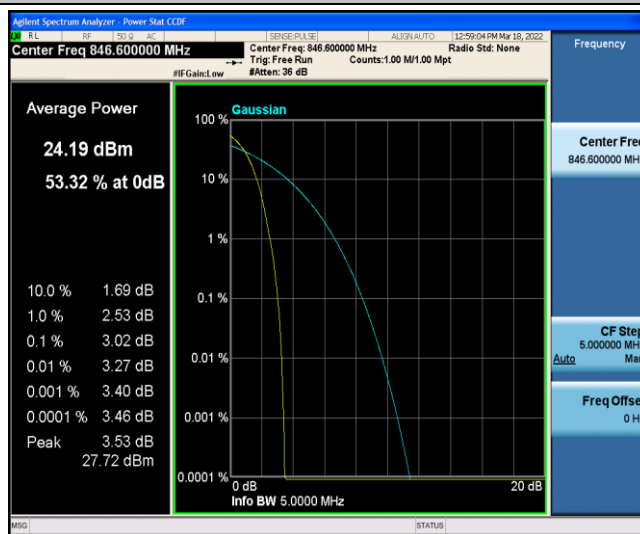
Band II_9538



Band V_4132



Band V_4182



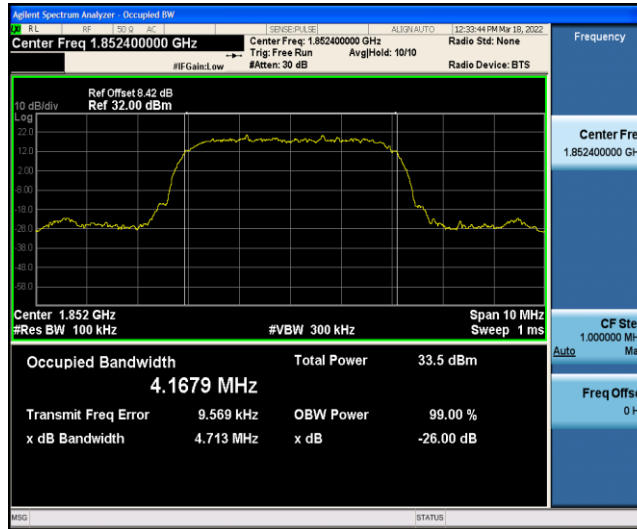
Band V_4233

8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

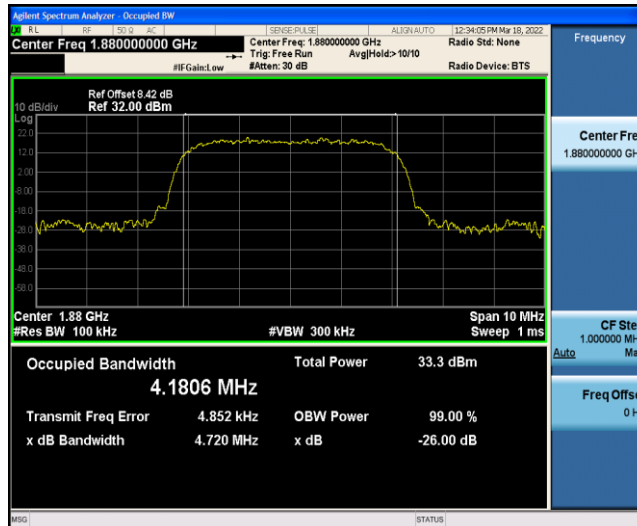
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4713	---	PASS
Band II	9400	4180.6	4720	---	PASS
Band II	9538	4186.6	4735	---	PASS
Band V	4132	4173.7	4707	---	PASS
Band V	4182	4175.7	4716	---	PASS
Band V	4233	4193.4	4734	---	PASS

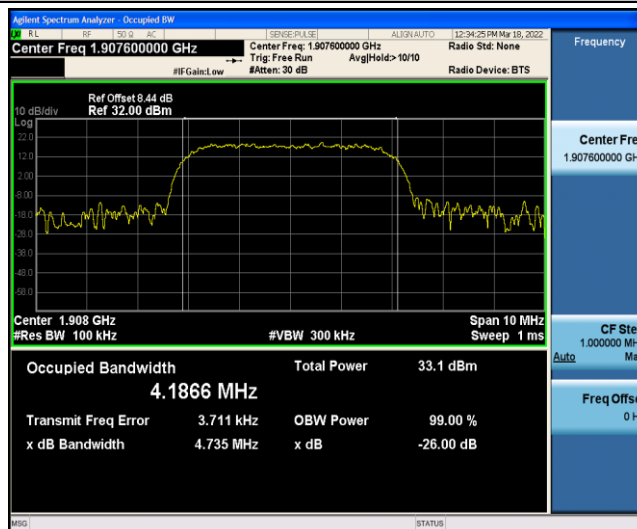
Test Graphs



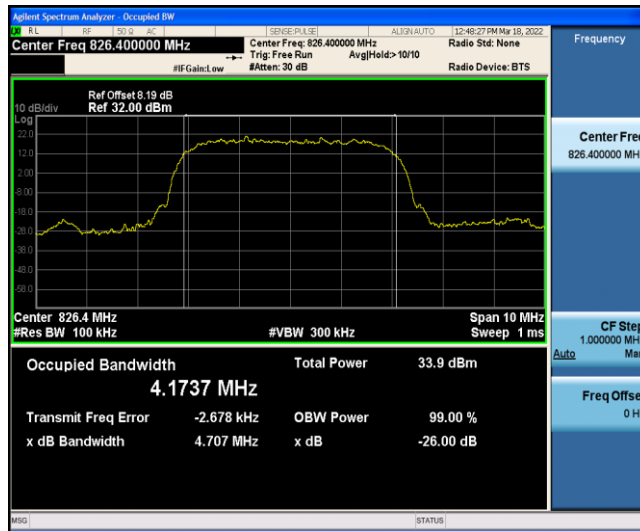
Band II_9262



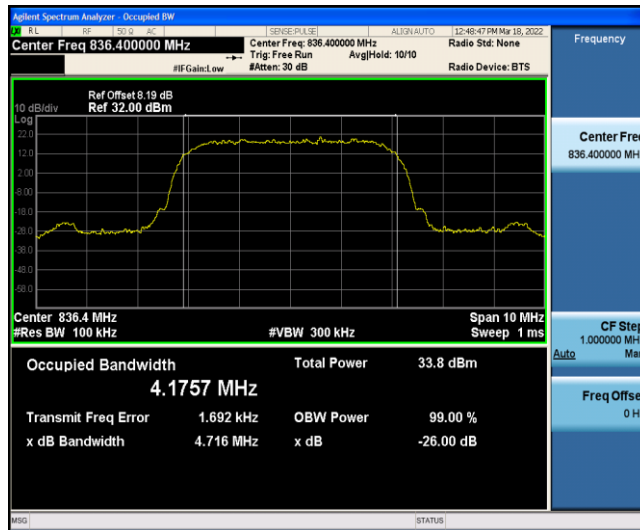
Band II_9400



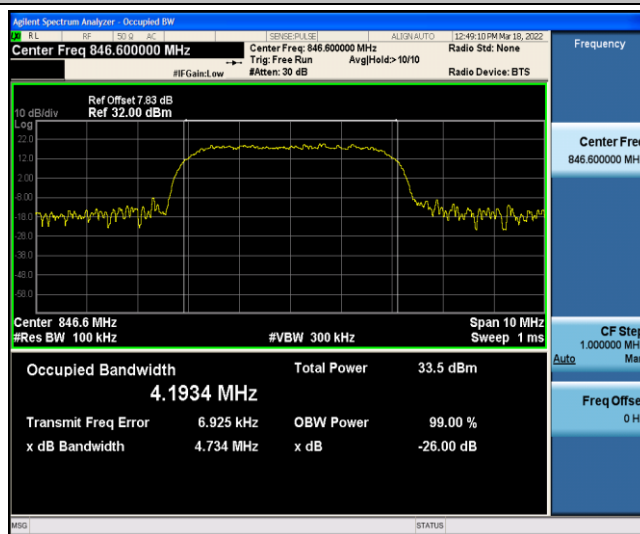
Band II_9538



Band V_4132



Band V_4182



Band V_4233

8.4 Appendix D: Band Edge

Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-20.70	-13	PASS
Band II	9538	-21.96	-13	PASS
Band V	4132	-20.33	-13	PASS
Band V	4233	-21.02	-13	PASS

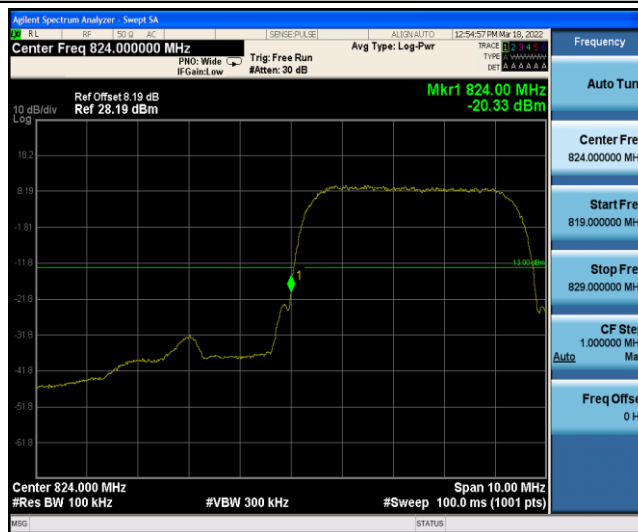
Test Graphs



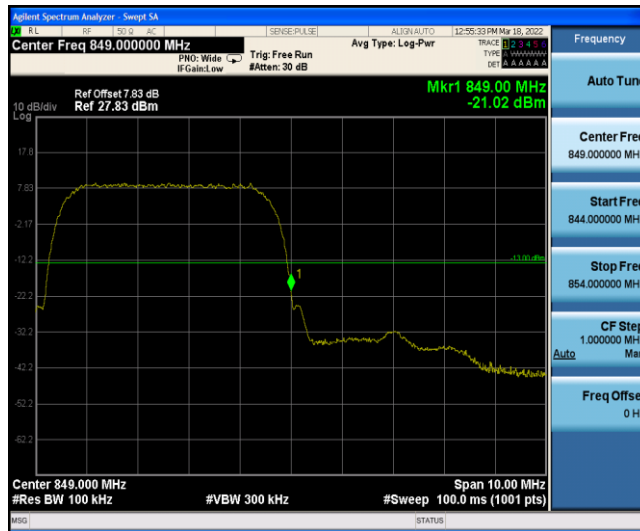
Band II_9262



Band II_9538



Band V_4132



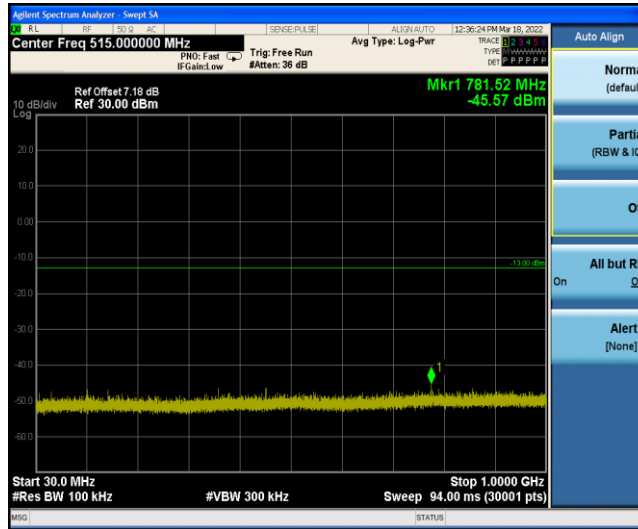
Band V_4233

8.5 Appendix E: Conducted Spurious Emission

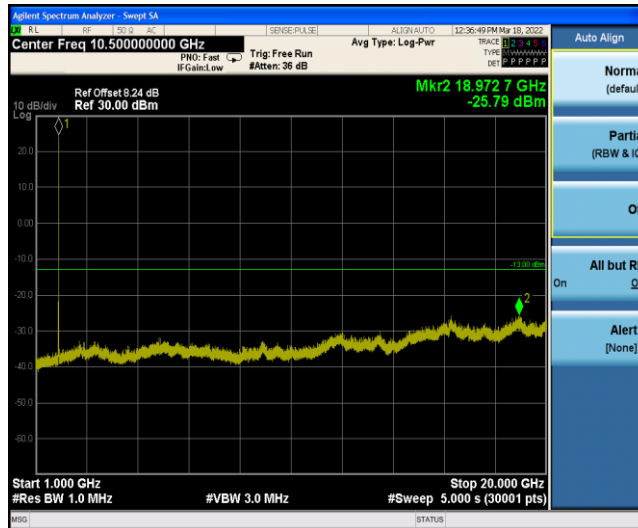
Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-45.57	-13	PASS
Band II	9262	1000~20000	-25.79	-13	PASS
Band II	9400	30~1000	-46.50	-13	PASS
Band II	9400	1000~20000	-26.20	-13	PASS
Band II	9538	30~1000	-46.56	-13	PASS
Band II	9538	1000~20000	-25.80	-13	PASS
Band V	4132	30~1000	-45.85	-13	PASS
Band V	4132	1000~10000	-32.20	-13	PASS
Band V	4182	30~1000	-46.48	-13	PASS
Band V	4182	1000~10000	-32.14	-13	PASS
Band V	4233	30~1000	-46.72	-13	PASS
Band V	4233	1000~10000	-32.35	-13	PASS

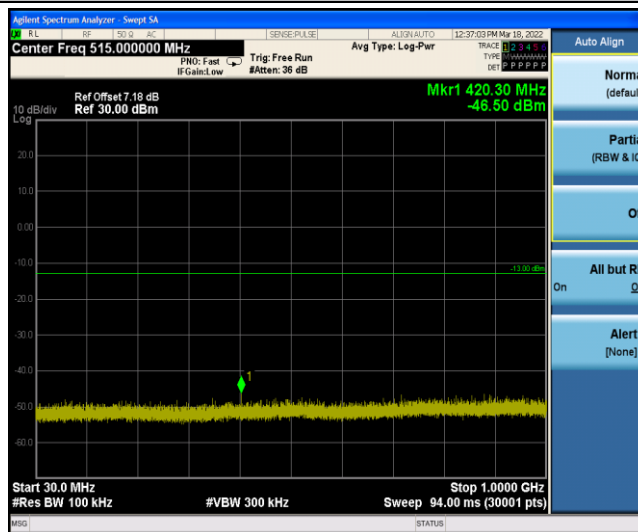
Test Graphs



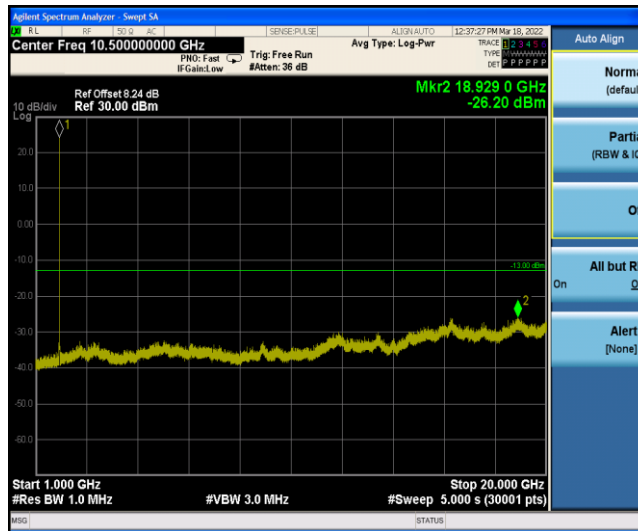
Band II_9262



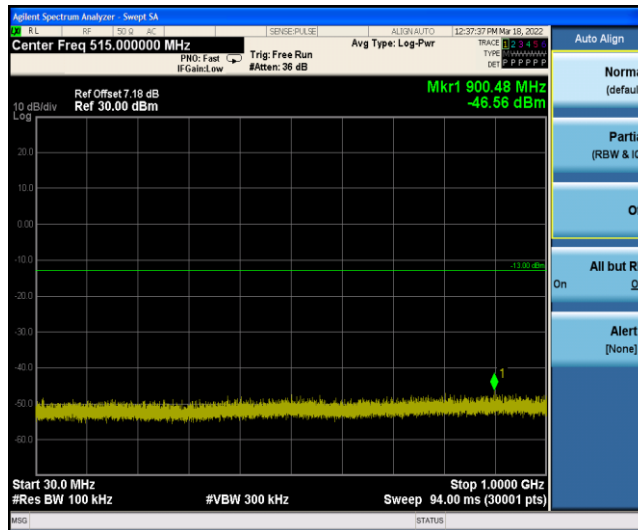
Band II_9262



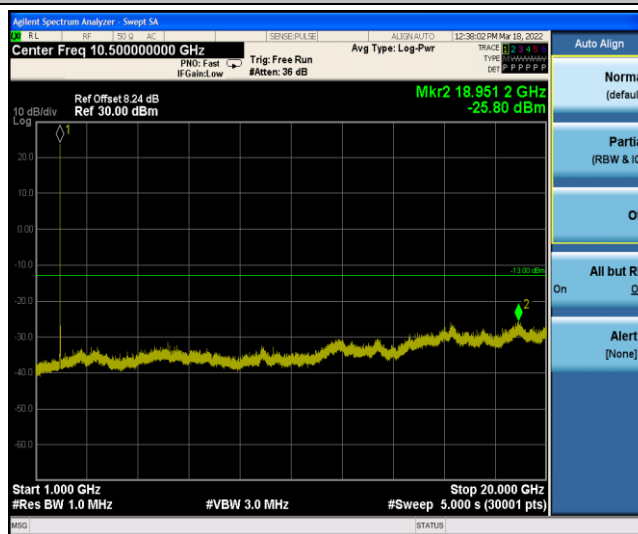
Band II_9400



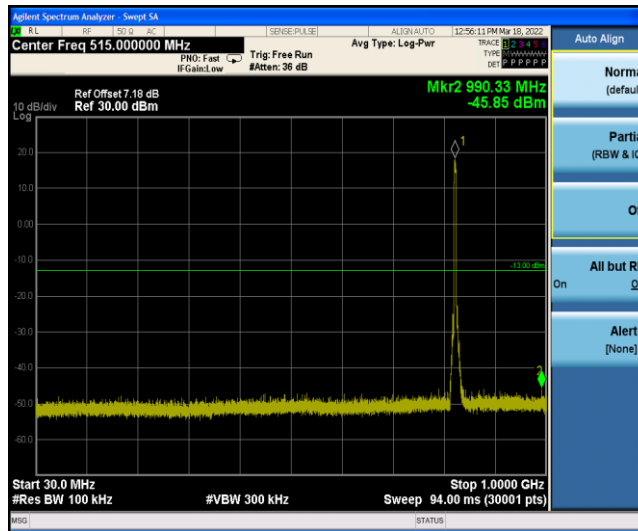
Band II_9400



Band II_9538



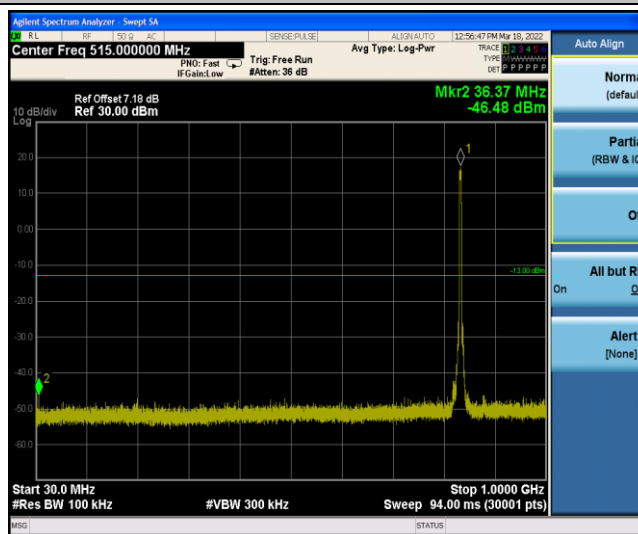
Band II_9538



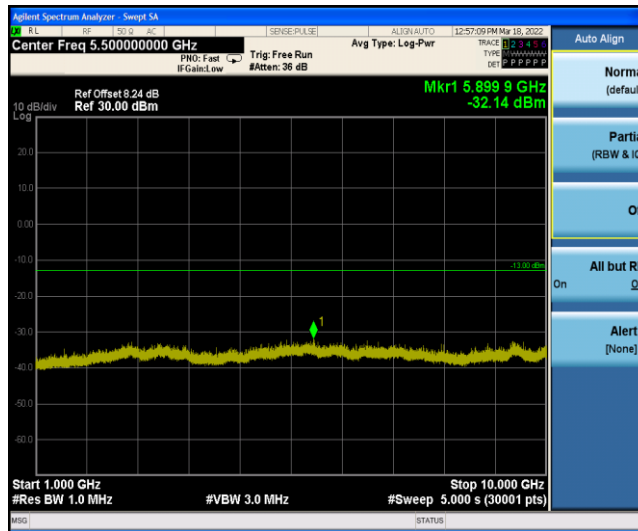
Band V_4132



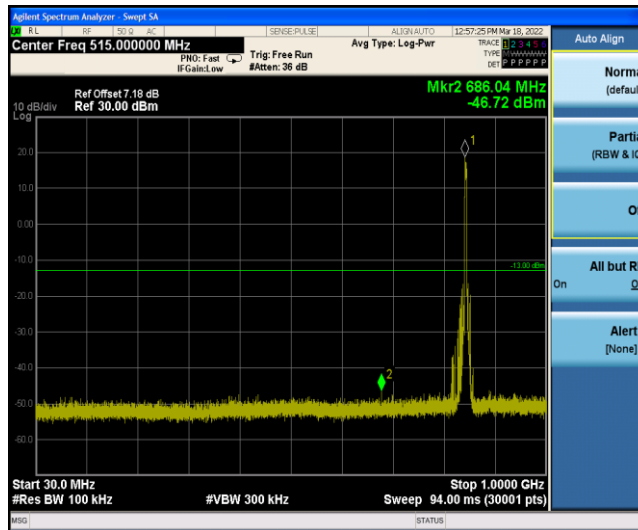
Band V_4132



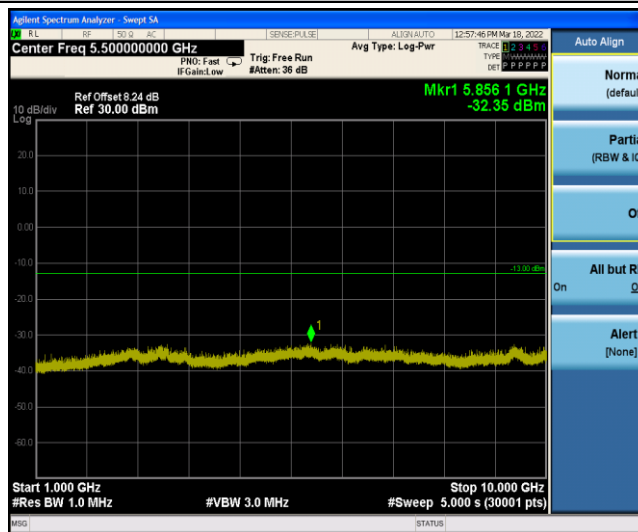
Band V_4182



Band V_4182



Band V_4233



Band V_4233

8.6 Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-10.88	-0.005873	2.5	PASS
Band II	9262	VN	TN	-8.11	-0.004378	2.5	PASS
Band II	9262	VH	TN	-7.87	-0.004249	2.5	PASS
Band II	9400	VL	TN	-7.47	-0.003973	2.5	PASS
Band II	9400	VN	TN	-8.50	-0.004521	2.5	PASS
Band II	9400	VH	TN	-8.29	-0.004410	2.5	PASS
Band II	9538	VL	TN	-14.97	-0.007848	2.5	PASS
Band II	9538	VN	TN	-14.61	-0.007659	2.5	PASS
Band II	9538	VH	TN	-11.31	-0.005929	2.5	PASS
Band V	4132	VL	TN	-16.18	-0.019579	2.5	PASS
Band V	4132	VN	TN	-14.09	-0.017050	2.5	PASS
Band V	4132	VH	TN	-10.84	-0.013117	2.5	PASS
Band V	4182	VL	TN	-17.94	-0.021449	2.5	PASS
Band V	4182	VN	TN	-13.22	-0.015806	2.5	PASS
Band V	4182	VH	TN	-14.78	-0.017671	2.5	PASS
Band V	4233	VL	TN	-9.23	-0.010902	2.5	PASS
Band V	4233	VN	TN	-14.36	-0.016962	2.5	PASS
Band V	4233	VH	TN	-12.02	-0.014198	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-12.65	-0.006829	2.5	PASS
Band II	9262	VN	-20	-8.02	-0.004330	2.5	PASS
Band II	9262	VN	-10	-12.26	-0.006618	2.5	PASS
Band II	9262	VN	0	-12.70	-0.006856	2.5	PASS
Band II	9262	VN	10	-12.10	-0.006532	2.5	PASS
Band II	9262	VN	20	-14.86	-0.008022	2.5	PASS
Band II	9262	VN	30	-7.81	-0.004216	2.5	PASS
Band II	9262	VN	40	-11.83	-0.006386	2.5	PASS
Band II	9262	VN	50	-9.18	-0.004956	2.5	PASS
Band II	9400	VN	-30	-10.59	-0.005633	2.5	PASS
Band II	9400	VN	-20	-6.51	-0.003463	2.5	PASS
Band II	9400	VN	-10	-11.09	-0.005899	2.5	PASS
Band II	9400	VN	0	-12.41	-0.006601	2.5	PASS
Band II	9400	VN	10	-10.67	-0.005676	2.5	PASS
Band II	9400	VN	20	-10.11	-0.005378	2.5	PASS
Band II	9400	VN	30	-11.36	-0.006043	2.5	PASS
Band II	9400	VN	40	-14.29	-0.007601	2.5	PASS
Band II	9400	VN	50	-11.85	-0.006303	2.5	PASS
Band II	9538	VN	-30	-5.36	-0.002810	2.5	PASS
Band II	9538	VN	-20	-7.77	-0.004073	2.5	PASS
Band II	9538	VN	-10	-12.05	-0.006317	2.5	PASS
Band II	9538	VN	0	-12.33	-0.006464	2.5	PASS
Band II	9538	VN	10	-12.30	-0.006448	2.5	PASS
Band II	9538	VN	20	-11.07	-0.005803	2.5	PASS
Band II	9538	VN	30	-17.28	-0.009059	2.5	PASS
Band II	9538	VN	40	-10.59	-0.005551	2.5	PASS
Band II	9538	VN	50	-8.50	-0.004456	2.5	PASS
Band V	4132	VN	-30	-12.14	-0.014690	2.5	PASS
Band V	4132	VN	-20	-15.34	-0.018562	2.5	PASS
Band V	4132	VN	-10	-15.06	-0.018224	2.5	PASS
Band V	4132	VN	0	-12.22	-0.014787	2.5	PASS
Band V	4132	VN	10	-10.42	-0.012609	2.5	PASS
Band V	4132	VN	20	-12.64	-0.015295	2.5	PASS
Band V	4132	VN	30	-13.99	-0.016929	2.5	PASS
Band V	4132	VN	40	-14.77	-0.017873	2.5	PASS
Band V	4132	VN	50	-7.50	-0.009076	2.5	PASS
Band V	4182	VN	-30	-13.54	-0.016188	2.5	PASS
Band V	4182	VN	-20	-12.74	-0.015232	2.5	PASS
Band V	4182	VN	-10	-13.66	-0.016332	2.5	PASS
Band V	4182	VN	0	-11.42	-0.013654	2.5	PASS
Band V	4182	VN	10	-10.75	-0.012853	2.5	PASS
Band V	4182	VN	20	-13.67	-0.016344	2.5	PASS
Band V	4182	VN	30	-11.34	-0.013558	2.5	PASS
Band V	4182	VN	40	-7.57	-0.009051	2.5	PASS
Band V	4182	VN	50	-8.63	-0.010318	2.5	PASS
Band V	4233	VN	-30	-9.20	-0.010867	2.5	PASS

Band V	4233	VN	-20	-10.74	-0.012686	2.5	PASS
Band V	4233	VN	-10	-14.47	-0.017092	2.5	PASS
Band V	4233	VN	0	-12.55	-0.014824	2.5	PASS
Band V	4233	VN	10	-15.39	-0.018179	2.5	PASS
Band V	4233	VN	20	-11.34	-0.013395	2.5	PASS
Band V	4233	VN	30	-11.27	-0.013312	2.5	PASS
Band V	4233	VN	40	-12.11	-0.014304	2.5	PASS
Band V	4233	VN	50	-8.03	-0.009485	2.5	PASS

8.7 Appendix G: ERP and EIRP

Test Result

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP		Limit (W)	Verdict
				(dBm)	(W)		
Band II	WCMDA	22.00	0.90	22.90	0.1950	2	PASS
	HSDPA	21.27	0.90	22.17	0.1648	2	PASS
	HSUPA	21.17	0.90	22.07	0.1611	2	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	ERP		Limit (W)	Verdict
				(dBm)	(W)		
Band V	WCMDA	23.11	0.40	21.36	0.1368	7	PASS
	HSDPA	21.61	0.40	19.86	0.0968	7	PASS
	HSUPA	21.64	0.40	19.89	0.0975	7	PASS

-----End of the Report -----