

## Appendix A: Effective (Isotropic) Radiated Power Output Data

### Test Result(WCDMA)

Band	Type	Channel	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	Voice	9262	23.41	22.39	33.01	PASS
Band2	TestMode	9262	23.52	22.50	33.01	PASS
Band2	TestMode	9400	23.59	22.57	33.01	PASS
Band2	Voice	9400	23.62	22.60	33.01	PASS
Band2	TestMode	9538	23.70	22.68	33.01	PASS
Band2	Voice	9538	23.59	22.57	33.01	PASS
Band4	Voice	1312	22.91	21.89	30.00	PASS
Band4	TestMode	1312	22.93	21.91	30.00	PASS
Band4	Voice	1413	23.21	22.19	30.00	PASS
Band4	TestMode	1413	23.23	22.21	30.00	PASS
Band4	TestMode	1513	23.11	22.09	30.00	PASS
Band4	Voice	1513	22.98	21.96	30.00	PASS
Band5	Voice	4132	24.88	16.93	38.45	PASS
Band5	TestMode	4132	24.80	16.85	38.45	PASS
Band5	TestMode	4183	24.92	16.97	38.45	PASS
Band5	Voice	4183	24.91	16.96	38.45	PASS
Band5	Voice	4233	24.89	16.94	38.45	PASS
Band5	TestMode	4233	24.89	16.94	38.45	PASS

### Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.51	21.49	33.01	PASS
Band2	9262	2	22.01	20.99	33.01	PASS
Band2	9262	3	22.02	21.00	33.01	PASS
Band2	9262	4	22.01	20.99	33.01	PASS
Band2	9400	1	22.56	21.54	33.01	PASS
Band2	9400	2	22.03	21.01	33.01	PASS
Band2	9400	3	22.05	21.03	33.01	PASS
Band2	9400	4	22.00	20.98	33.01	PASS
Band2	9538	1	22.69	21.67	33.01	PASS
Band2	9538	2	22.11	21.09	33.01	PASS
Band2	9538	3	22.18	21.16	33.01	PASS
Band2	9538	4	22.18	21.16	33.01	PASS

Band4	1312	1	21.92	20.90	30.00	PASS
Band4	1312	2	21.43	20.41	30.00	PASS
Band4	1312	3	21.50	20.48	30.00	PASS
Band4	1312	4	21.45	20.43	30.00	PASS
Band4	1413	1	22.21	21.19	30.00	PASS
Band4	1413	2	21.76	20.74	30.00	PASS
Band4	1413	3	21.81	20.79	30.00	PASS
Band4	1413	4	21.75	20.73	30.00	PASS
Band4	1513	1	22.10	21.08	30.00	PASS
Band4	1513	2	21.62	20.60	30.00	PASS
Band4	1513	3	21.69	20.67	30.00	PASS
Band4	1513	4	21.62	20.60	30.00	PASS
Band5	4132	1	23.84	15.89	38.5	PASS
Band5	4132	2	23.33	15.38	38.5	PASS
Band5	4132	3	23.39	15.44	38.5	PASS
Band5	4132	4	23.33	15.38	38.5	PASS
Band5	4183	1	23.95	16.00	38.5	PASS
Band5	4183	2	23.45	15.50	38.5	PASS
Band5	4183	3	23.51	15.56	38.5	PASS
Band5	4183	4	23.44	15.49	38.5	PASS
Band5	4233	1	23.88	15.93	38.5	PASS
Band5	4233	2	23.36	15.41	38.5	PASS
Band5	4233	3	23.41	15.46	38.5	PASS
Band5	4233	4	23.38	15.43	38.5	PASS

**Test Result(HSUPA)**

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.44	19.42	33.01	PASS
Band2	9262	2	20.98	19.96	33.01	PASS
Band2	9262	3	21.47	20.45	33.01	PASS
Band2	9262	4	20.49	19.47	33.01	PASS
Band2	9262	5	22.49	21.47	33.01	PASS
Band2	9400	1	20.45	19.43	33.01	PASS
Band2	9400	2	21.01	19.99	33.01	PASS
Band2	9400	3	21.52	20.50	33.01	PASS
Band2	9400	4	20.52	19.50	33.01	PASS
Band2	9400	5	22.53	21.51	33.01	PASS
Band2	9538	1	20.57	19.55	33.01	PASS
Band2	9538	2	21.11	20.09	33.01	PASS
Band2	9538	3	21.61	20.59	33.01	PASS

Band2	9538	4	20.61	19.59	33.01	PASS
Band2	9538	5	22.62	21.60	33.01	PASS
Band4	1312	1	19.93	18.91	30.00	PASS
Band4	1312	2	20.42	19.40	30.00	PASS
Band4	1312	3	20.91	19.89	30.00	PASS
Band4	1312	4	19.92	18.90	30.00	PASS
Band4	1312	5	21.96	20.94	30.00	PASS
Band4	1413	1	20.21	19.19	30.00	PASS
Band4	1413	2	20.72	19.70	30.00	PASS
Band4	1413	3	21.20	20.18	30.00	PASS
Band4	1413	4	20.23	19.21	30.00	PASS
Band4	1413	5	22.25	21.23	30.00	PASS
Band4	1513	1	20.07	19.05	30.00	PASS
Band4	1513	2	20.59	19.57	30.00	PASS
Band4	1513	3	21.08	20.06	30.00	PASS
Band4	1513	4	20.11	19.09	30.00	PASS
Band4	1513	5	22.12	21.10	30.00	PASS
Band5	4132	1	21.80	13.85	38.5	PASS
Band5	4132	2	22.30	14.35	38.5	PASS
Band5	4132	3	22.83	14.88	38.5	PASS
Band5	4132	4	21.84	13.89	38.5	PASS
Band5	4132	5	23.86	15.91	38.5	PASS
Band5	4183	1	21.90	13.95	38.5	PASS
Band5	4183	2	22.44	14.49	38.5	PASS
Band5	4183	3	22.94	14.99	38.5	PASS
Band5	4183	4	21.96	14.01	38.5	PASS
Band5	4183	5	23.98	16.03	38.5	PASS
Band5	4233	1	21.82	13.87	38.5	PASS
Band5	4233	2	22.33	14.38	38.5	PASS
Band5	4233	3	22.82	14.87	38.5	PASS
Band5	4233	4	21.86	13.91	38.5	PASS
Band5	4233	5	23.88	15.93	38.5	PASS

Remark:  $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$ . (For Band2 & 4)  
 $ERP (dBm) = EIRP (dBm) - 2.15 (dB)$ . (For Band5)

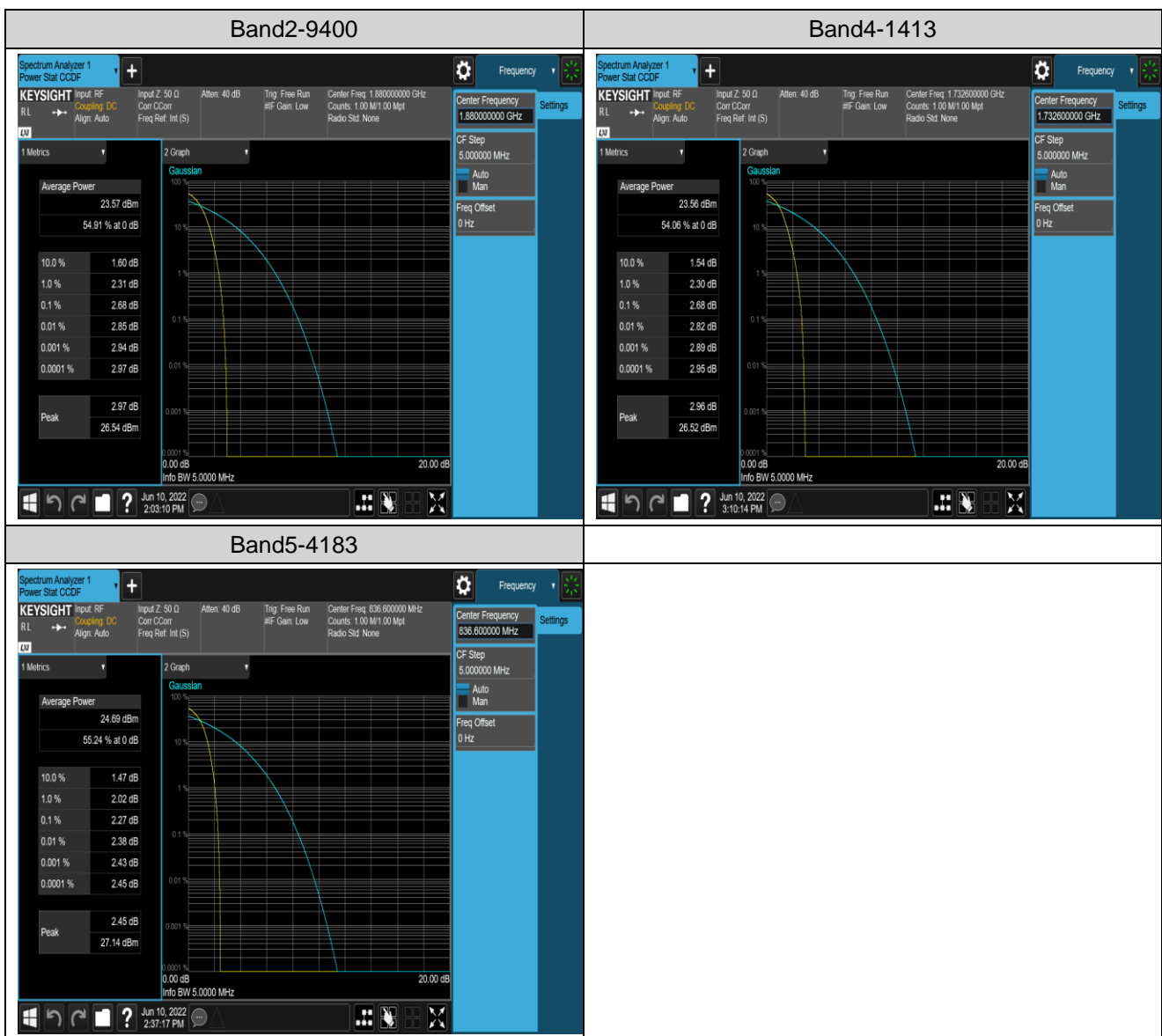
## Appendix B: Peak-to-Average Ratio

### Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.68	13	PASS
Band4	1413	2.68	13	PASS
Band5	4183	2.27	13	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

### Test Graphs(WCDMA)

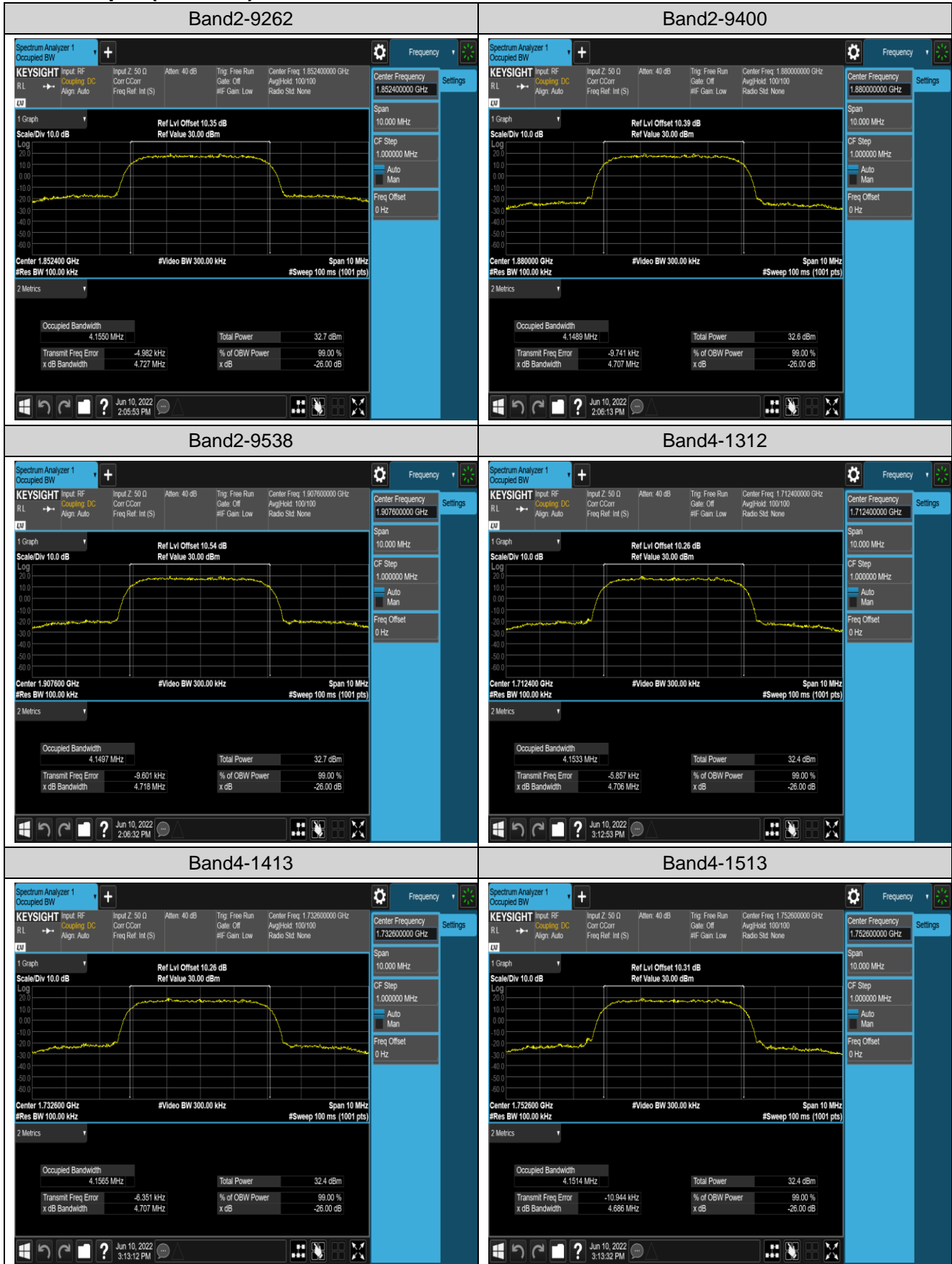


## AppendixC:26dB Bandwidth andOccupied Bandwidth

### Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1550	4.727	---	PASS
Band2	9400	4.1489	4.707	---	PASS
Band2	9538	4.1497	4.718	---	PASS
Band4	1312	4.1533	4.706	---	PASS
Band4	1413	4.1565	4.707	---	PASS
Band4	1513	4.1514	4.686	---	PASS
Band5	4132	4.1501	4.699	---	PASS
Band5	4183	4.1744	4.737	---	PASS
Band5	4233	4.1407	4.684	---	PASS

Test Graphs(WCDMA)





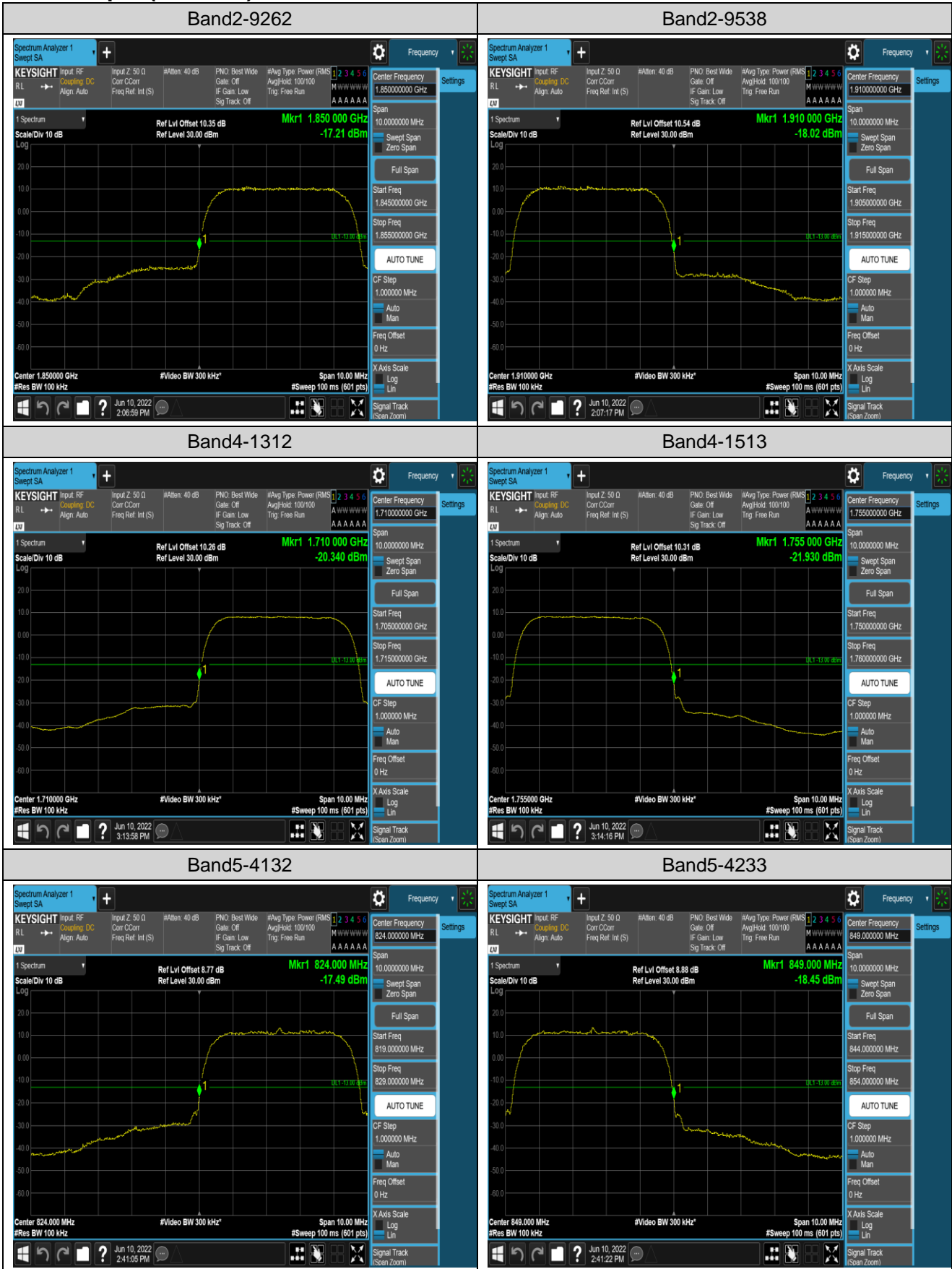
## AppendixD:Band Edge

### Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-17.21	-13	PASS
Band2	9538	1910.00	-18.02	-13	PASS
Band4	1312	1710.00	-20.34	-13	PASS
Band4	1513	1755.00	-21.93	-13	PASS
Band5	4132	824.00	-17.49	-13	PASS
Band5	4233	849.00	-18.45	-13	PASS



Test Graphs(WCDMA)

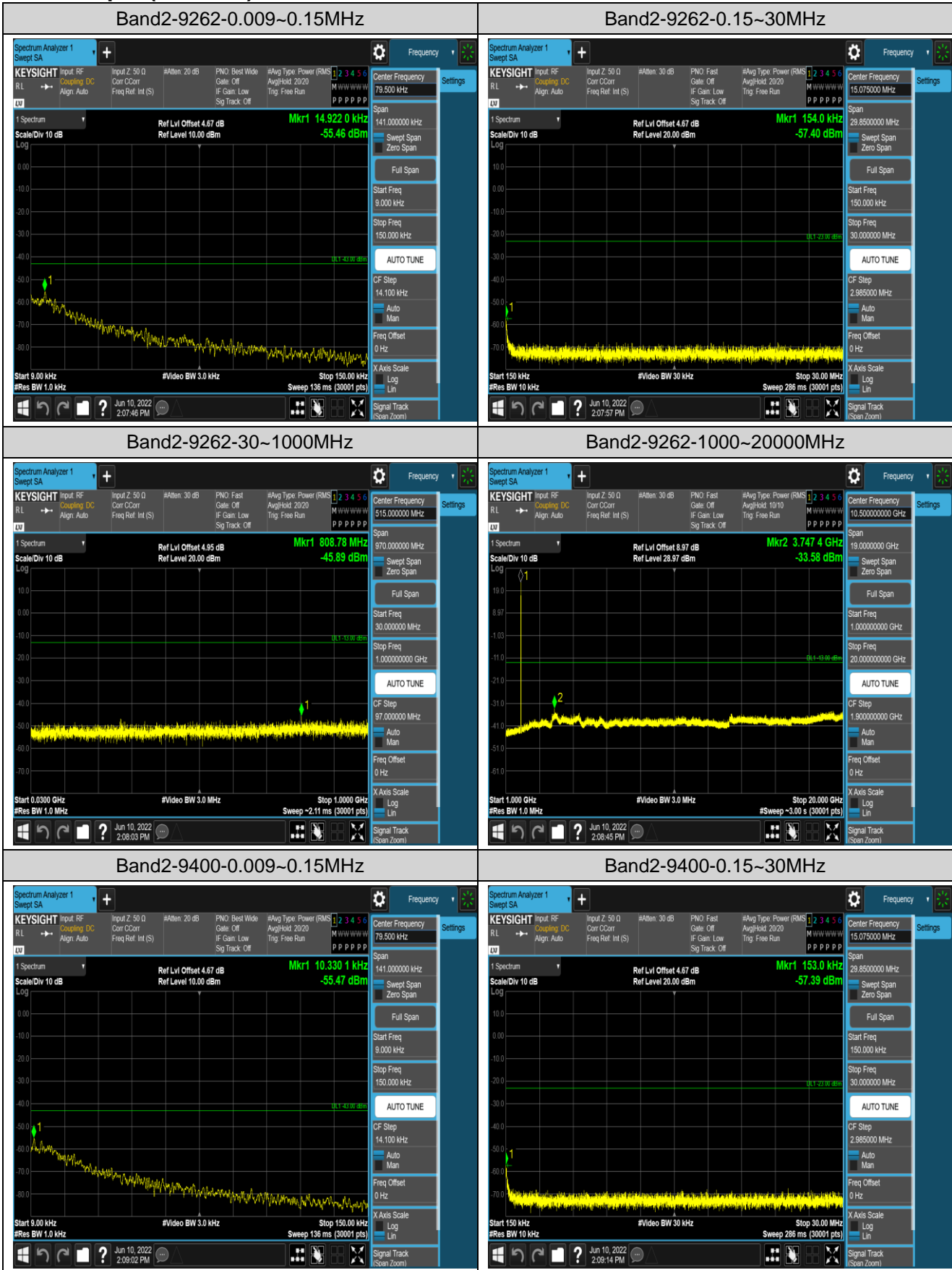


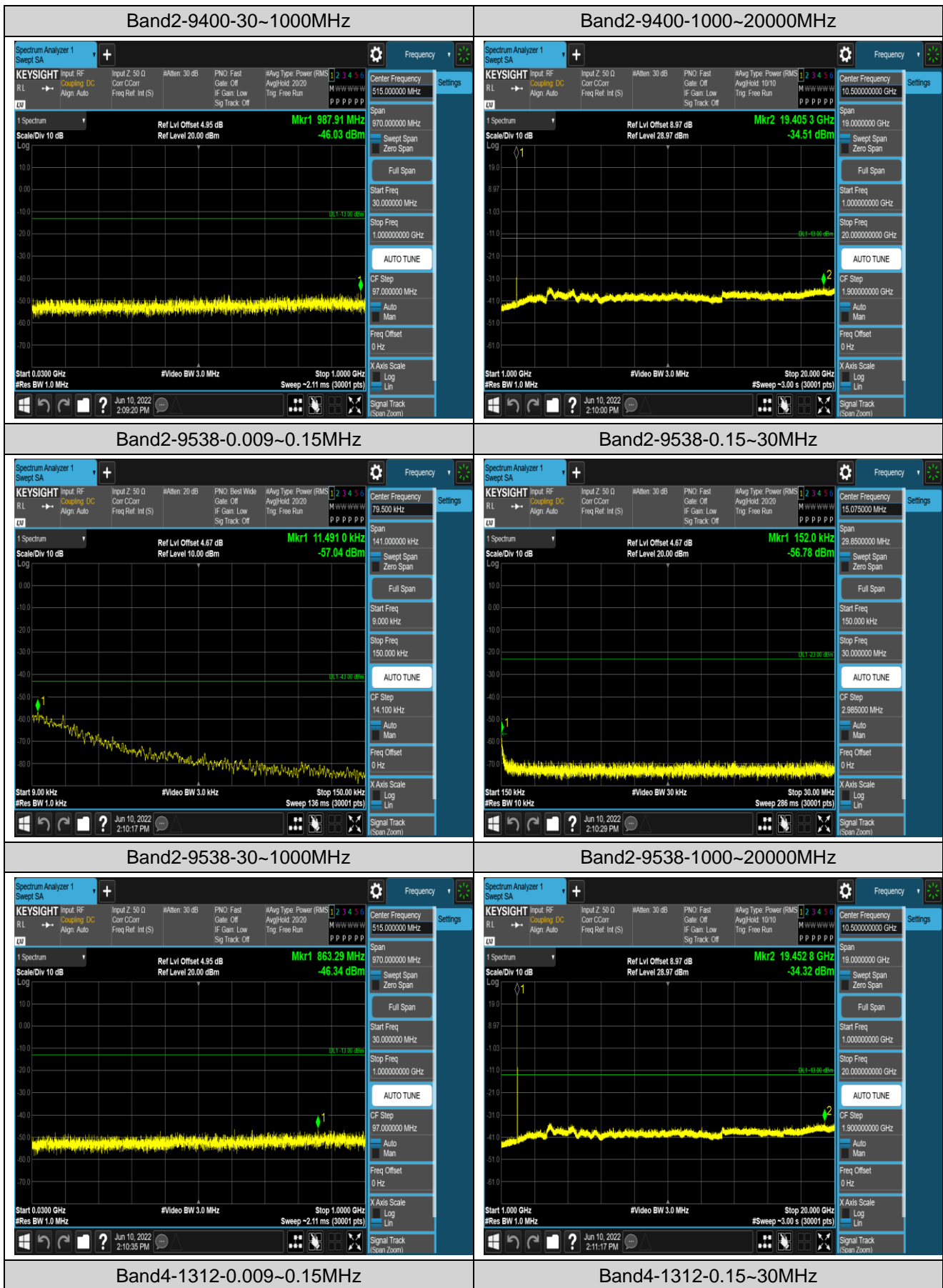
## Appendix E: Conducted Spurious Emission

### Test Result (WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.46	-43	PASS
Band2	9262	0.15~30MHz	0.15	-57.4	-23	PASS
Band2	9262	30~1000MHz	808.78	-45.89	-13	PASS
Band2	9262	1000~20000MHz	3747.4	-33.58	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-55.47	-43	PASS
Band2	9400	0.15~30MHz	0.15	-57.39	-23	PASS
Band2	9400	30~1000MHz	987.91	-46.03	-13	PASS
Band2	9400	1000~20000MHz	19405.3	-34.51	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-57.04	-43	PASS
Band2	9538	0.15~30MHz	0.15	-56.78	-23	PASS
Band2	9538	30~1000MHz	863.29	-46.34	-13	PASS
Band2	9538	1000~20000MHz	19452.8	-34.32	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-57.89	-43	PASS
Band4	1312	0.15~30MHz	0.18	-57.88	-23	PASS
Band4	1312	30~1000MHz	415.64	-46.5	-13	PASS
Band4	1312	1000~20000MHz	3806.93	-34.02	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-56.74	-43	PASS
Band4	1413	0.15~30MHz	0.16	-58.74	-23	PASS
Band4	1413	30~1000MHz	883.57	-46.56	-13	PASS
Band4	1413	1000~20000MHz	19379.97	-34.63	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.82	-43	PASS
Band4	1513	0.15~30MHz	0.16	-54.72	-23	PASS
Band4	1513	30~1000MHz	827.73	-45.89	-13	PASS
Band4	1513	1000~20000MHz	3797.43	-33.58	-13	PASS
Band5	4132	0.009~0.15MHz	0.02	-56.27	-33	PASS
Band5	4132	0.15~30MHz	0.19	-56.68	-13	PASS
Band5	4132	30~1000MHz	705.86	-55.71	-13	PASS
Band5	4132	1000~10000MHz	3830.5	-34.18	-13	PASS
Band5	4183	0.009~0.15MHz	0.02	-57.12	-33	PASS
Band5	4183	0.15~30MHz	0.15	-58.33	-13	PASS
Band5	4183	30~1000MHz	293.16	-55.39	-13	PASS
Band5	4183	1000~10000MHz	3757.9	-34.72	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-57.21	-33	PASS
Band5	4233	0.15~30MHz	0.15	-57.63	-13	PASS
Band5	4233	30~1000MHz	432.23	-56.19	-13	PASS
Band5	4233	1000~10000MHz	3860.2	-34.83	-13	PASS

Test Graphs(WCDMA)







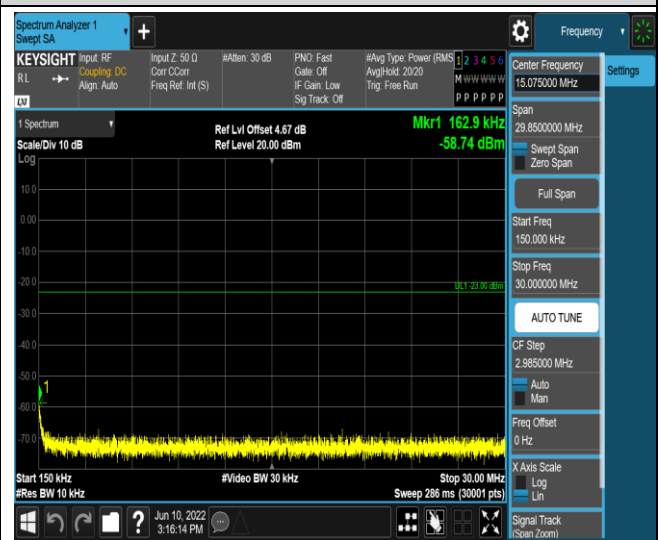
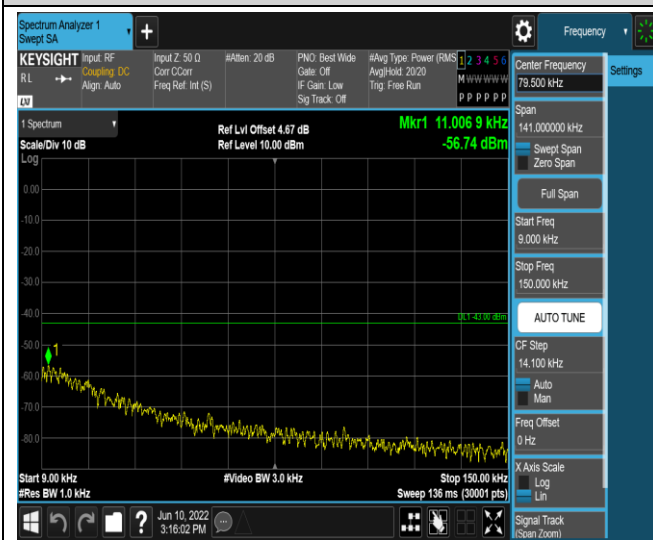
Band4-1312-30~1000MHz

Band4-1312-1000~20000MHz



Band4-1413-0.009~0.15MHz

Band4-1413-0.15~30MHz



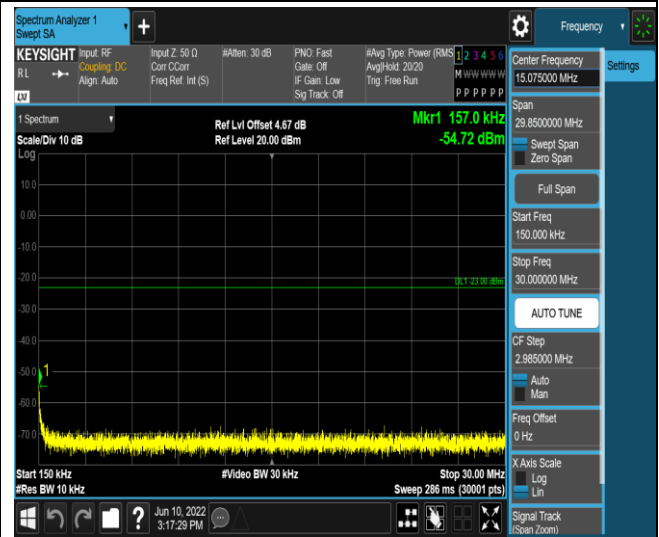
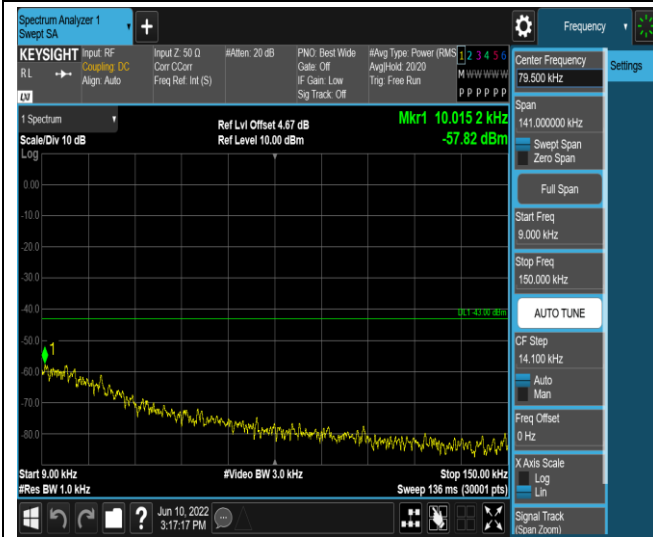
Band4-1413-30~1000MHz

Band4-1413-1000~20000MHz



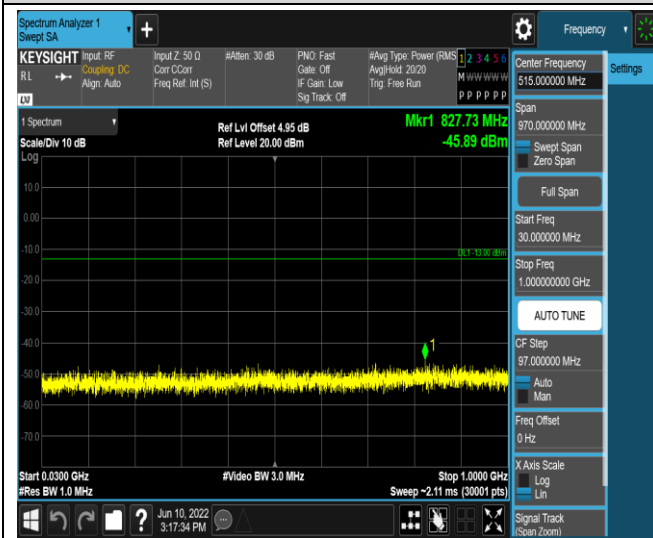
Band4-1513-0.009~0.15MHz

Band4-1513-0.15~30MHz



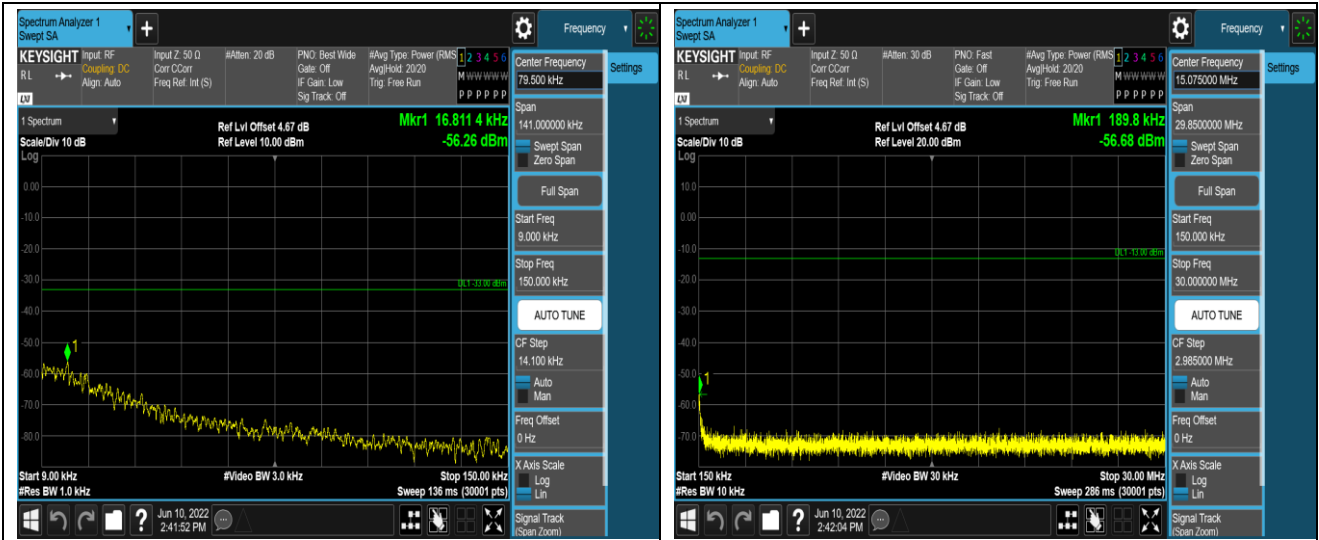
Band4-1513-30~1000MHz

Band4-1513-1000~20000MHz



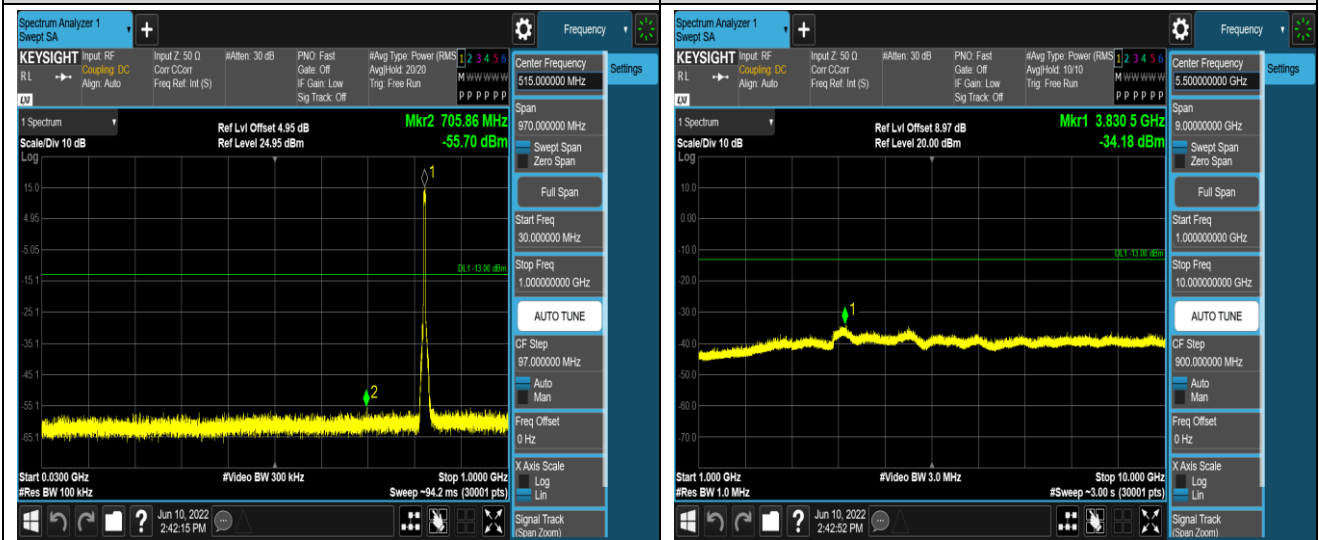
Band5-4132-0.009~0.15MHz

Band5-4132-0.15~30MHz



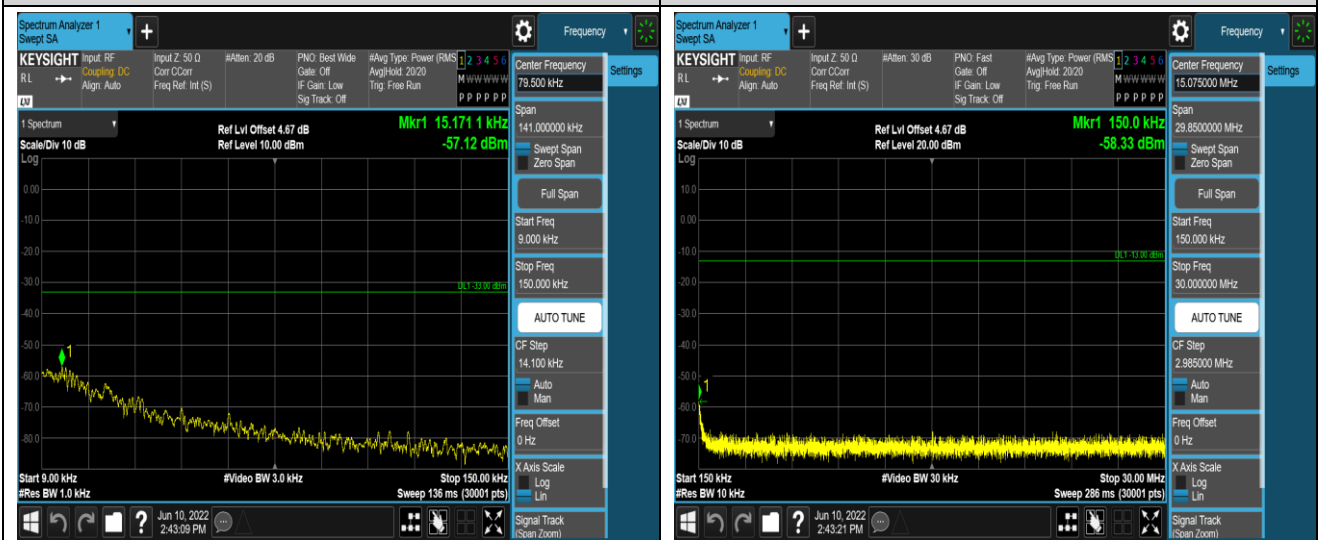
Band5-4132-30~1000MHz

Band5-4132-1000~10000MHz



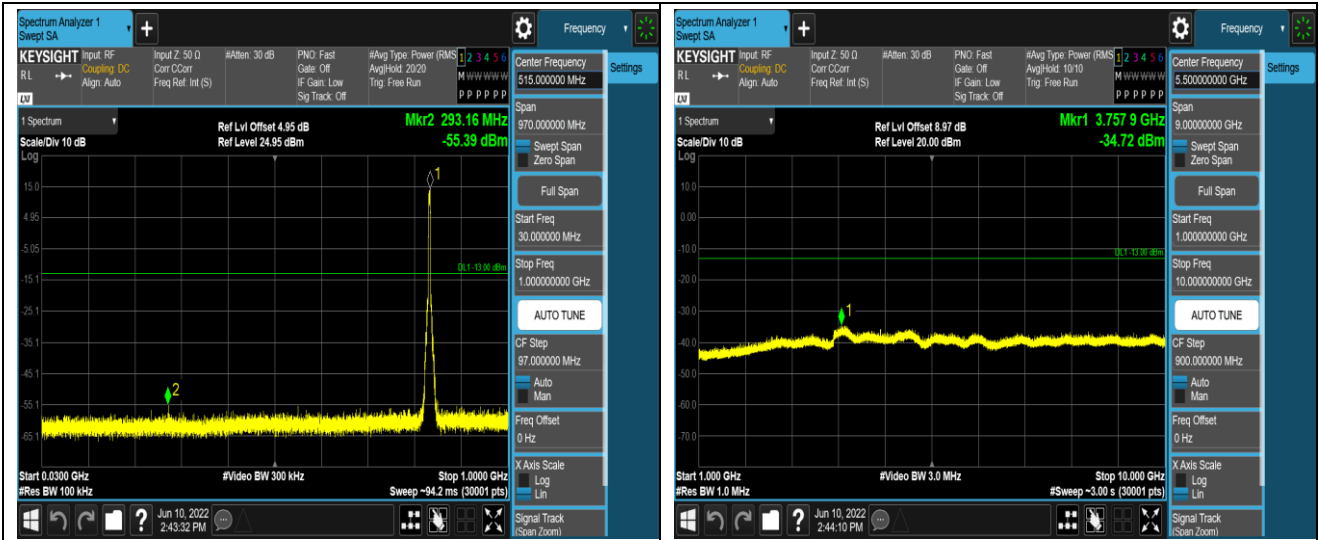
Band5-4183-0.009~0.15MHz

Band5-4183-0.15~30MHz



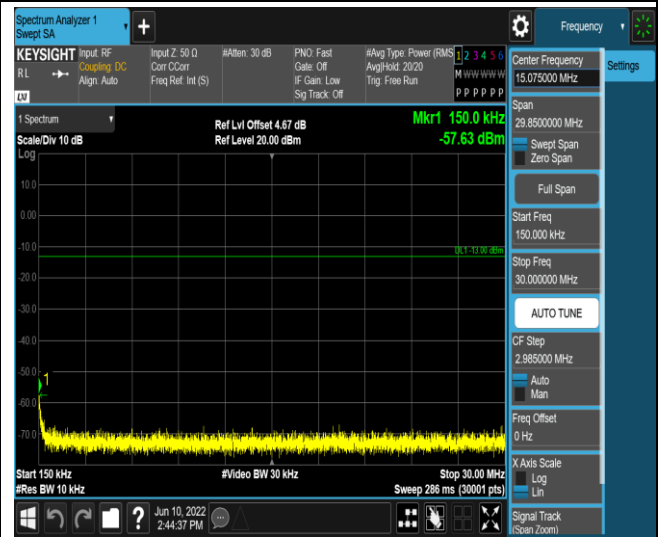
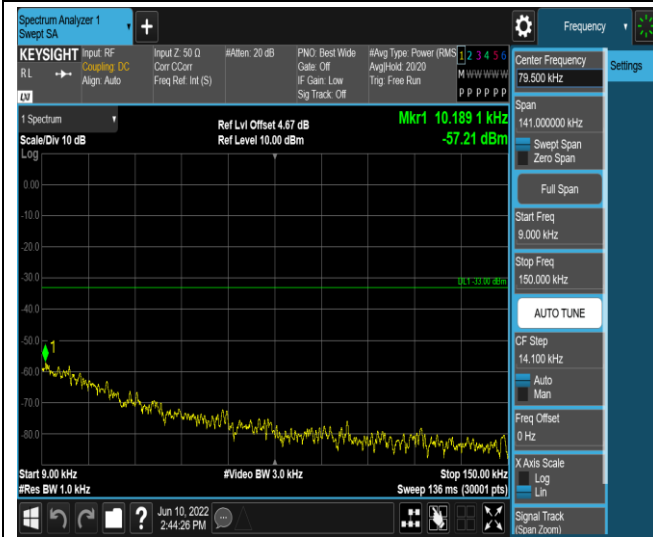
Band5-4183-30~1000MHz

Band5-4183-1000~10000MHz



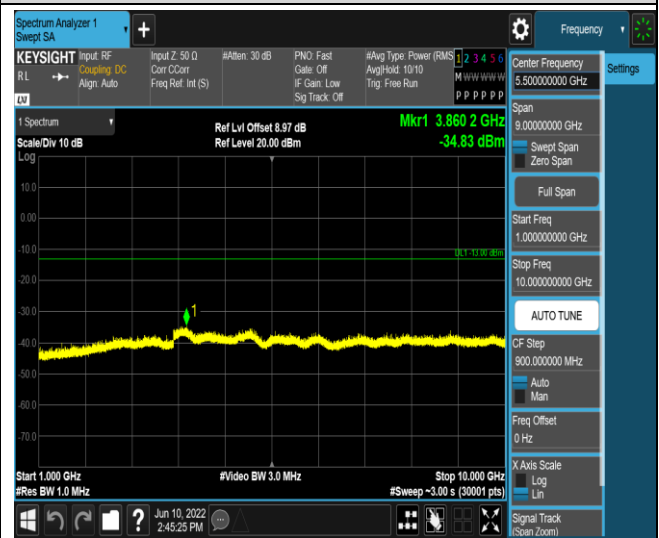
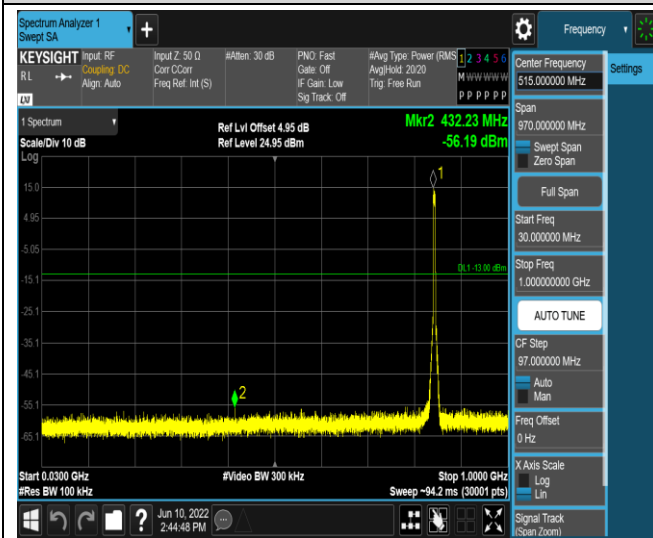
Band5-4233-0.009~0.15MHz

Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz

Band5-4233-1000~10000MHz





## Appendix F: Frequency Stability

### Test Result

Reference Frequency: WCDMA BAND II 12.2k RMC Middle Frequency=9400 channel=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	4.63	0.002463	Within authorized band for BAND II	Pass
	-20	3.68	0.001957		
	-10	4.46	0.002372		
	0	4.21	0.002239		
	10	4.54	0.002415		
	20	2.98	0.001585		
	30	3.86	0.002053		
	40	4.18	0.002223		
	50	3.74	0.001989		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	4.22	0.002245	Within authorized band for BAND II	Pass
	3.85	4.51	0.002399		
	4.40	3.30	0.001755		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: WCDMA BAND IV 12.2k RMC Middle Frequency=1413 channel=1732.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	0.59	0.000341	Within authorized band for BAND IV	Pass
	-20	0.53	0.000306		
	-10	1.22	0.000704		
	0	0.55	0.000317		
	10	1.26	0.000727		
	20	1.52	0.000877		
	30	1.12	0.000646		
	40	0.66	0.000381		
	50	1.97	0.001137		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.51	0.000294	Within authorized band for BAND IV	Pass
	3.85	2.36	0.001362		
	4.40	1.11	0.000641		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-0.92	-0.001100	±2.5	Pass
	-20	-1.30	-0.001554		
	-10	0.10	0.000120		
	0	0.35	0.000418		
	10	0.57	0.000681		
	20	0.30	0.000359		
	30	-0.49	-0.000586		
	40	-0.39	-0.000466		
	50	-0.05	-0.000060		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.06	-0.000072	±2.5	Pass
	3.85	-0.59	-0.000705		
	4.40	-1.43	-0.001709		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

## Appendix G: Modulation Characteristics

### Test Result

Band	Channel	Result	Verdict
Band2	9400	PASS	PASS
Band4	1413	PASS	PASS
Band5	4183	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

### Test Graphs

