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**A1. CONDUCTED OUTPUT POWER**

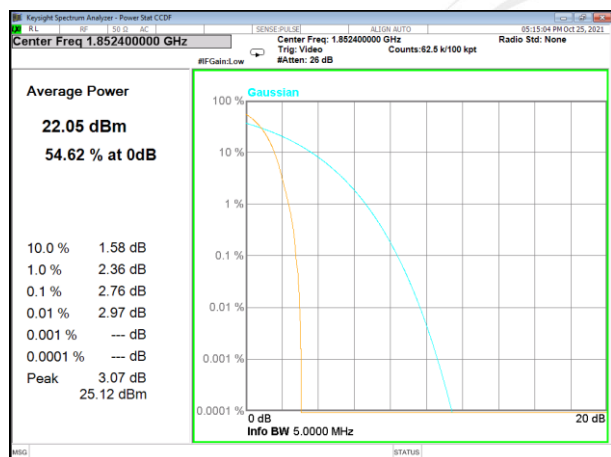
UMTS BAND II

UMTS BAND 2		
Mode	Frequency(MHz)	AVG Power
WCDMA 1900 RMC	1852.4	22.69
	1880	23.34
	1907.6	23.20
HSDPA Subtest 1	1852.4	22.40
	1880	22.51
	1907.6	22.81
HSDPA Subtest 2	1852.4	21.90
	1880	22.06
	1907.6	22.38
HSDPA Subtest 3	1852.4	21.52
	1880	21.61
	1907.6	22.00
HSDPA Subtest 4	1852.4	21.16
	1880	21.27
	1907.6	21.53
HSUPA Subtest 1	1852.4	22.17
	1880	22.44
	1907.6	22.78
HSUPA Subtest 2	1852.4	21.17
	1880	21.48
	1907.6	21.81
HSUPA Subtest 3	1852.4	20.98
	1880	20.98
	1907.6	21.43
HSUPA Subtest 4	1852.4	20.58
	1880	20.67
	1907.6	21.10
HSUPA Subtest 5	1852.4	19.12
	1880	19.21
	1907.6	19.70

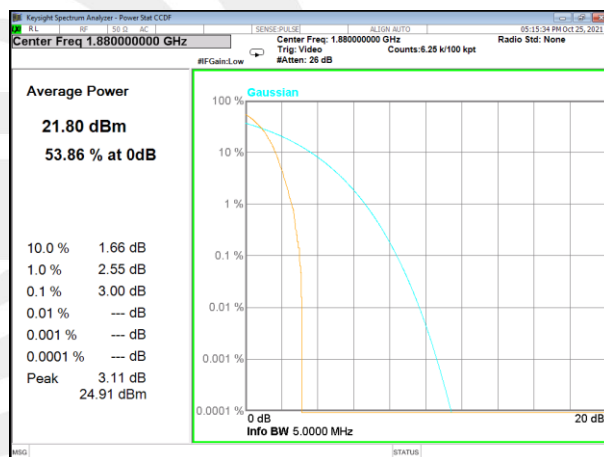


A2. PEAK-TO-AVERAGE RADIO

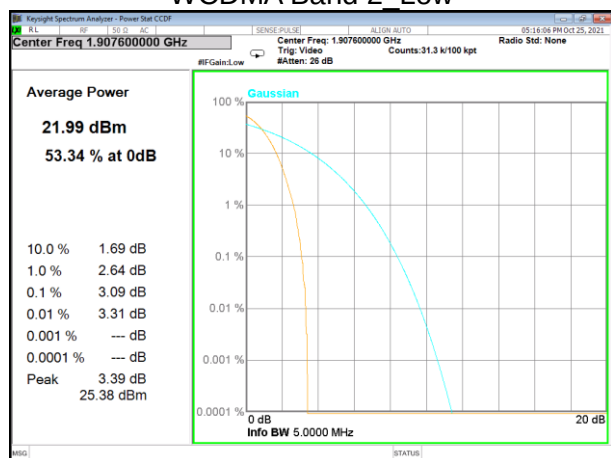
UMTS Band 2		
Mode	Frequency (MHz)	PAR
WCDMA 1900	1852.4	2.76
	1880	3.00
	1907.6	3.09
HSDPA 1900	1852.4	3.02
	1880	3.44
	1907.6	3.24
HSUPA 1900	1852.4	3.18
	1880	3.32
	1907.6	3.30



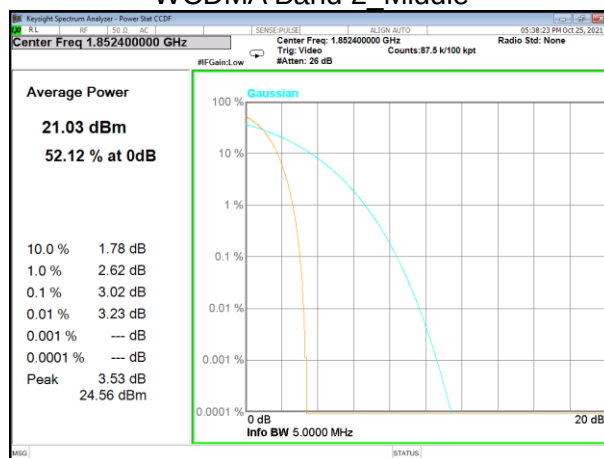
WCDMA Band 2_Low



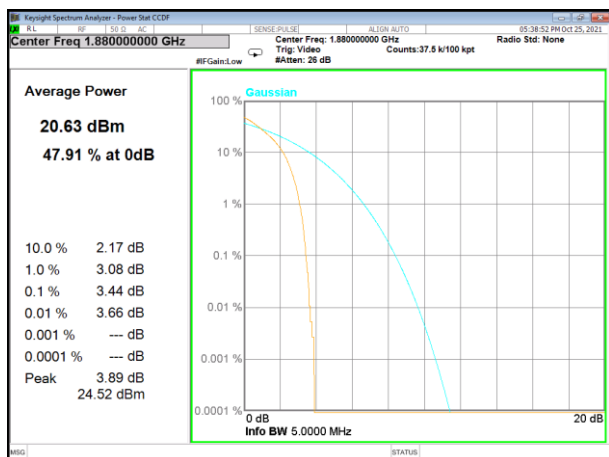
WCDMA Band 2_Middle



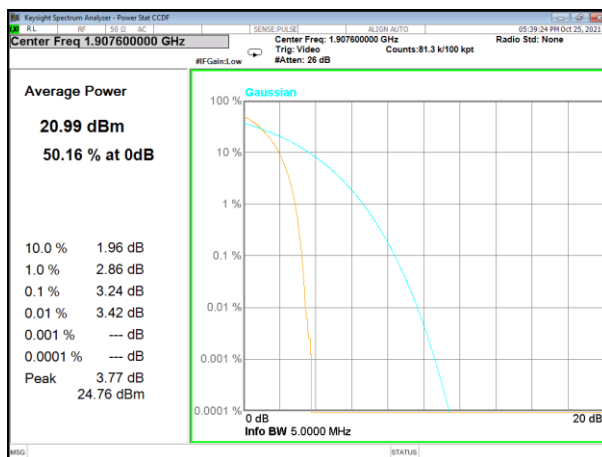
WCDMA Band 2_High



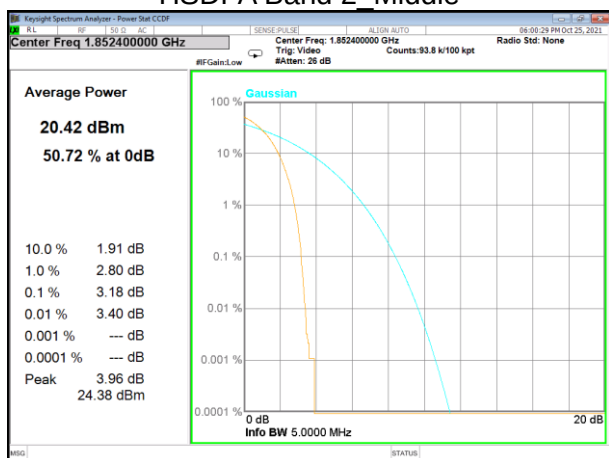
HSDPA Band 2_Low



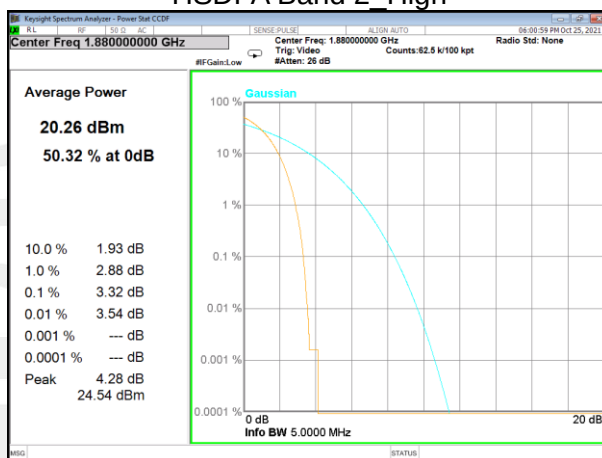
HSDPA Band 2_Middle



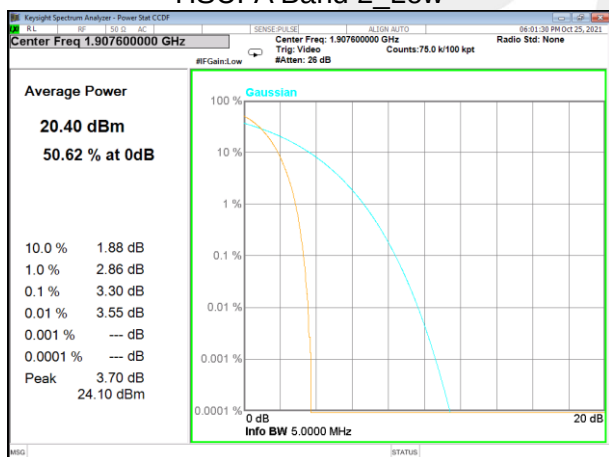
HSDPA Band 2_High



HSUPA Band 2_Low



HSUPA Band 2_Middle



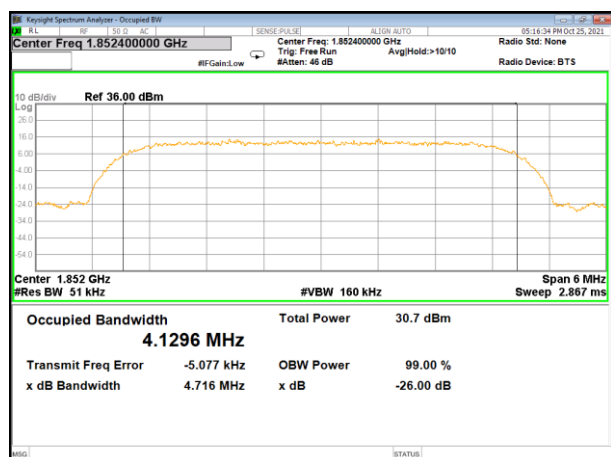
HSUPA Band 2_High

**A3. TRANSMITTER RADIATED POWER (EIRP/ERP)**

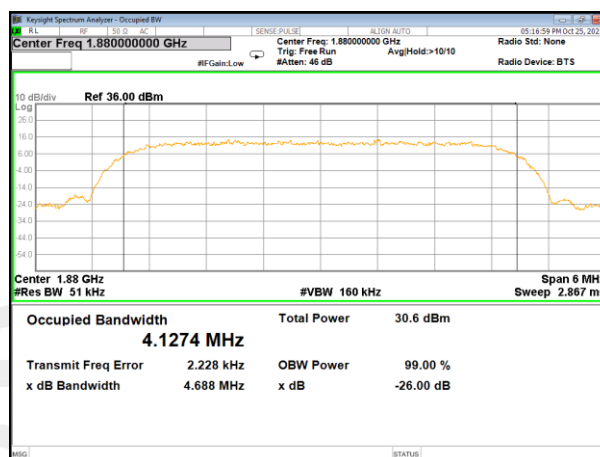
Radiated Power (EIRP) for WCDMA Band 2							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
WCDMA	1852.4	12.34	2.41	10.35	20.28	Horizontal	Pass
	1852.4	14.14	2.41	10.35	22.08	Vertical	Pass
	1880	12.98	2.42	10.35	20.91	Horizontal	Pass
	1880	14.77	2.42	10.35	22.70	Vertical	Pass
	1907.4	12.75	2.43	10.35	20.67	Horizontal	Pass
	1907.4	14.69	2.43	10.35	22.61	Vertical	Pass
HSUPA	1852.4	11.9	2.41	10.35	19.84	Horizontal	Pass
	1852.4	13.71	2.41	10.35	21.65	Vertical	Pass
	1880	12.05	2.42	10.35	19.98	Horizontal	Pass
	1880	13.88	2.42	10.35	21.81	Vertical	Pass
	1907.4	12.38	2.43	10.35	20.30	Horizontal	Pass
	1907.4	14.15	2.43	10.35	22.07	Vertical	Pass
HSDPA	1852.4	11.55	2.41	10.35	19.49	Horizontal	Pass
	1852.4	13.34	2.41	10.35	21.28	Vertical	Pass
	1880	11.99	2.42	10.35	19.92	Horizontal	Pass
	1880	13.73	2.42	10.35	21.66	Vertical	Pass
	1907.4	12.18	2.43	10.35	20.10	Horizontal	Pass
	1907.4	14.18	2.43	10.35	22.10	Vertical	Pass
Limit	EIRP<2W=33dBm						

**A4. OCCUPIED BANDWIDTH(99% OCCUPIED BANDWIDTH/26dB BANDWIDTH)**

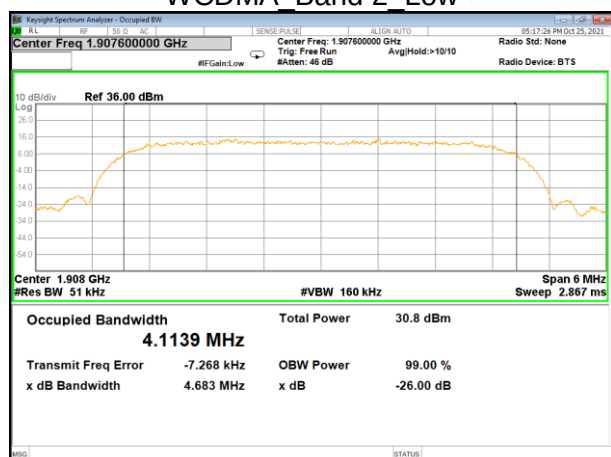
WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA 2	4.13	4.716	4.127	4.688	4.114	4.683
HSDPA 2	4.122	4.7	4.116	4.693	4.111	4.679
HSUPA 2	4.131	4.703	4.127	4.692	4.122	4.692



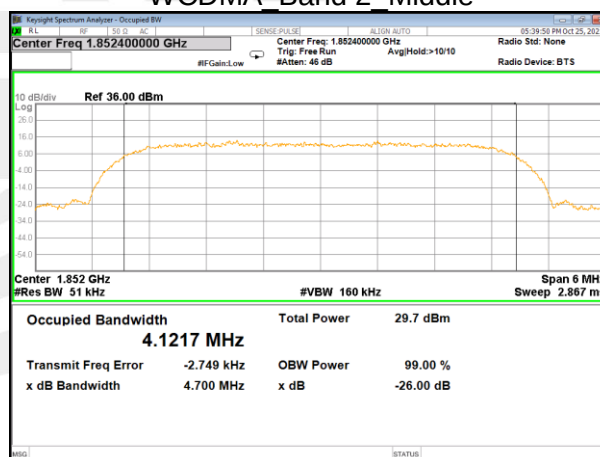
WCDMA Band 2 Low



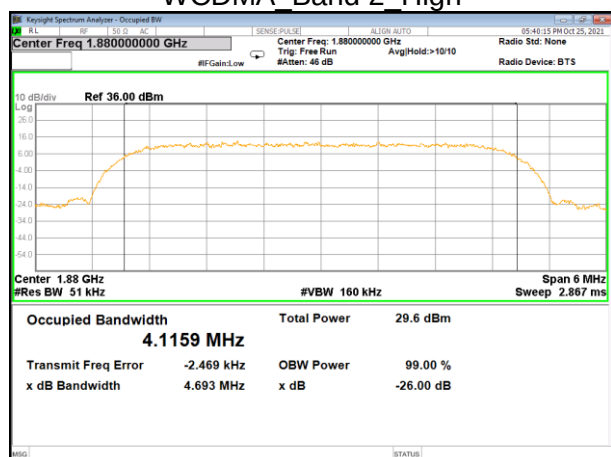
WCDMA Band 2 Middle



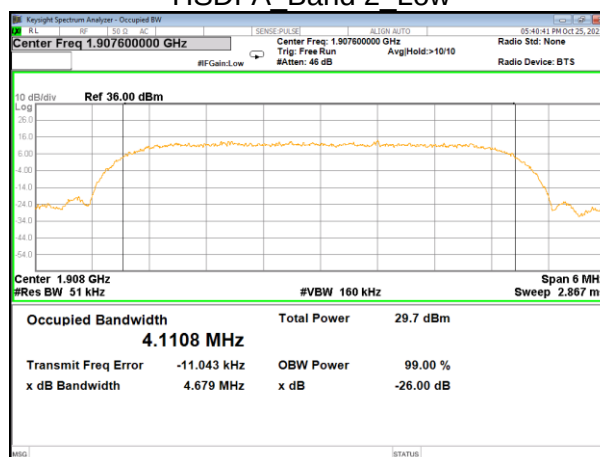
WCDMA Band 2 High



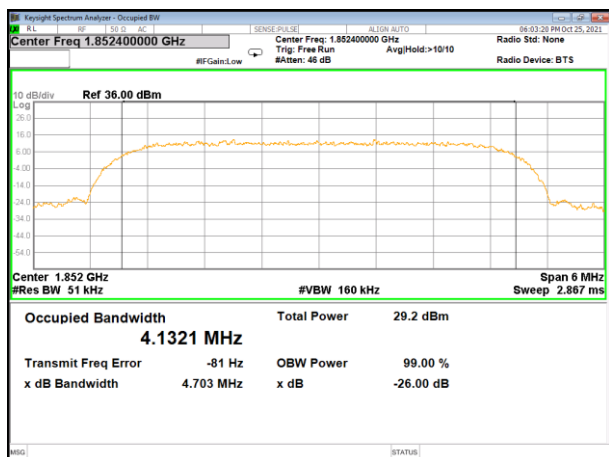
HSDPA Band 2 Low



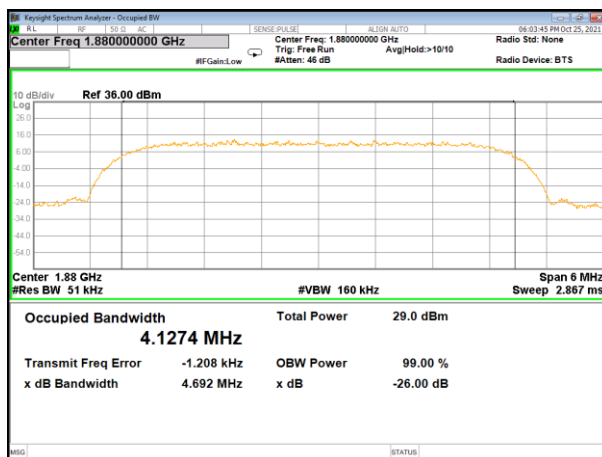
HSDPA_Band 2_Middle



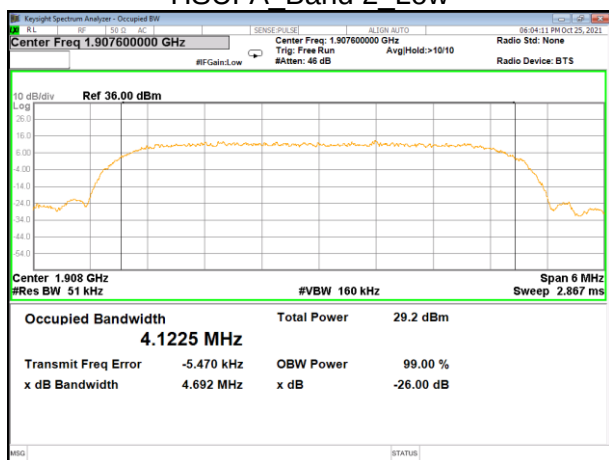
HSDPA_Band 2_High



HSUPA_Band 2_Low



HSUPA_Band 2_Middle



HSUPA_Band 2_High

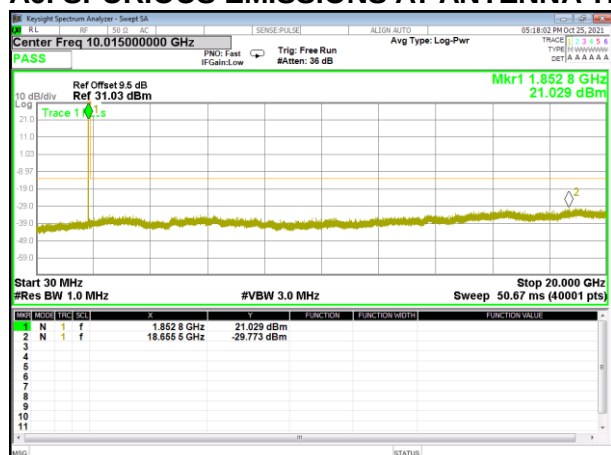
**A5. FREQUENCY STABILITY**

UMTS Band 2 /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	32.97	0.018	Within Authorized Band	PASS
40		24.70	0.013		
30		30.85	0.016		
20		27.23	0.014		
10		30.57	0.016		
0		19.87	0.011		
-10		19.70	0.010		
-20		28.62	0.015		
-30		26.57	0.014		
20	Maximum Voltage	12.68	0.007		
20	BEP	25.57	0.014		

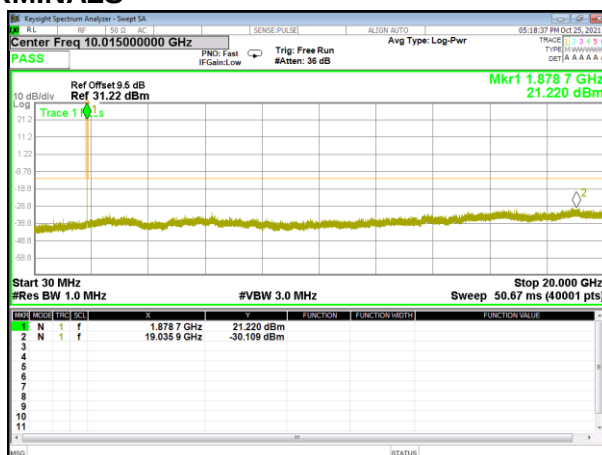
HSDPA Band 2 /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	32.21	0.017	Within Authorized Band	PASS
40		21.54	0.011		
30		13.33	0.007		
20		28.62	0.015		
10		30.37	0.016		
0		21.29	0.011		
-10		15.92	0.008		
-20		23.86	0.013		
-30		26.27	0.014		
20	Maximum Voltage	31.69	0.017		
20	BEP	29.86	0.016		

HSUPA Band 2 /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	27.46	0.015	Within Authorized Band	PASS
40		15.91	0.008		
30		20.48	0.011		
20		16.65	0.009		
10		14.81	0.008		
0		31.55	0.017		
-10		29.33	0.016		
-20		19.36	0.010		
-30		13.95	0.007		
20	Maximum Voltage	11.89	0.006		
20	BEP	33.03	0.018		

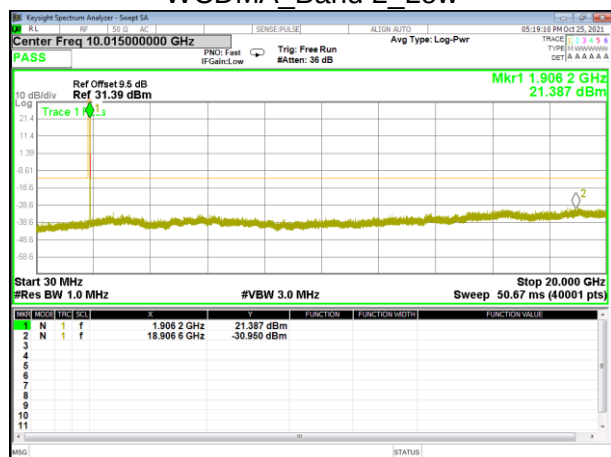
1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

**A6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS**

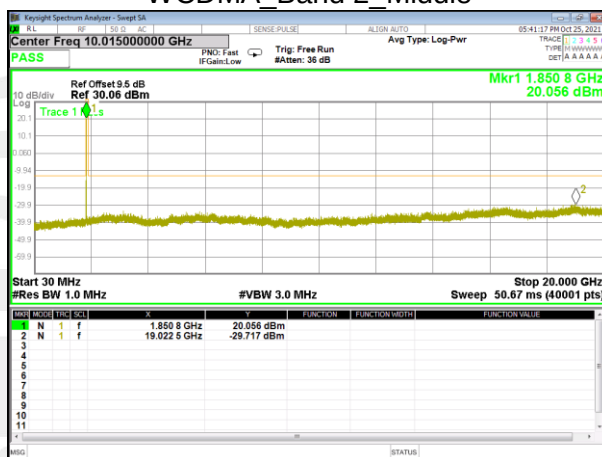
WCDMA_Band 2_Low



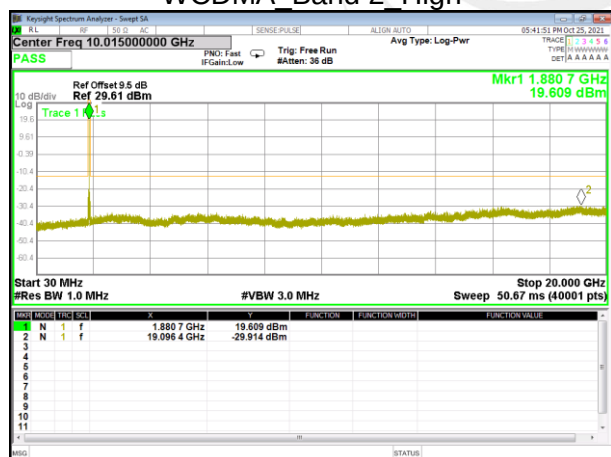
WCDMA_Band 2_Middle



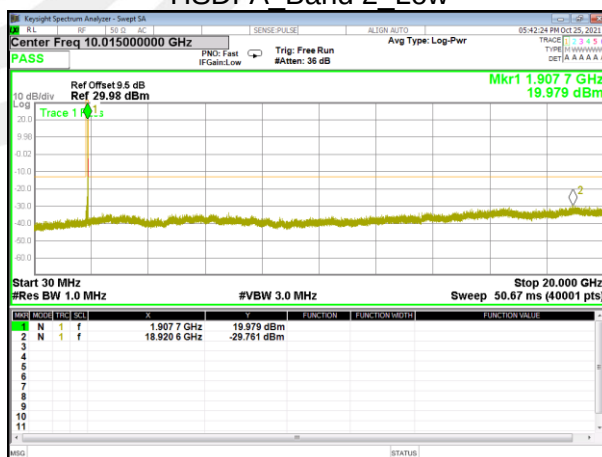
WCDMA_Band 2_High



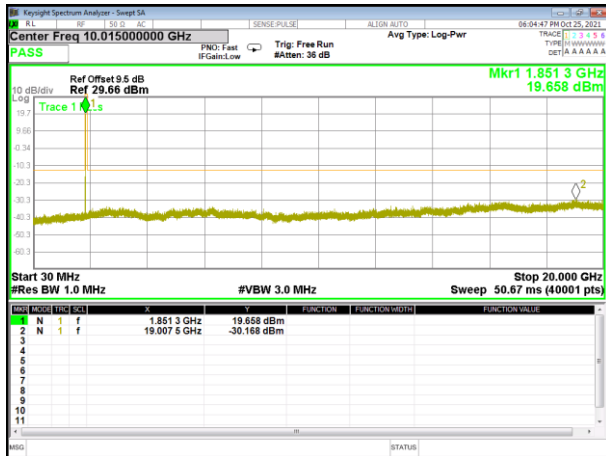
HSDPA_Band 2_Low



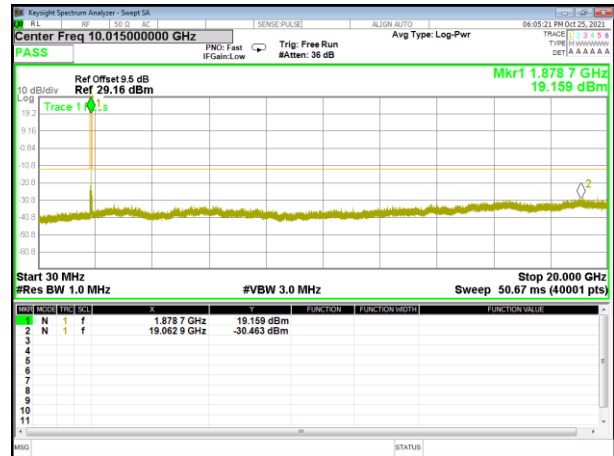
HSDPA_Band 2_Middle



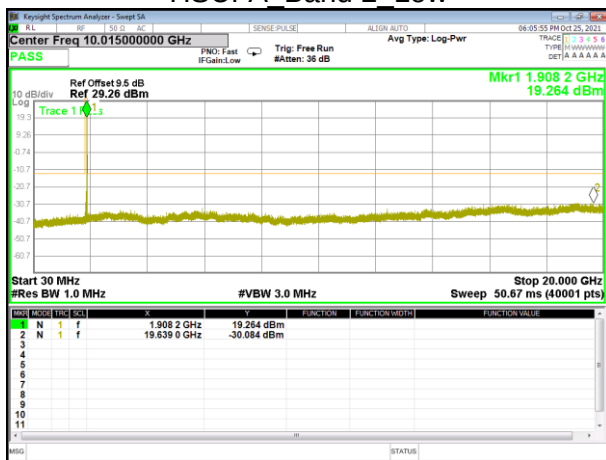
HSDPA_Band 2_High



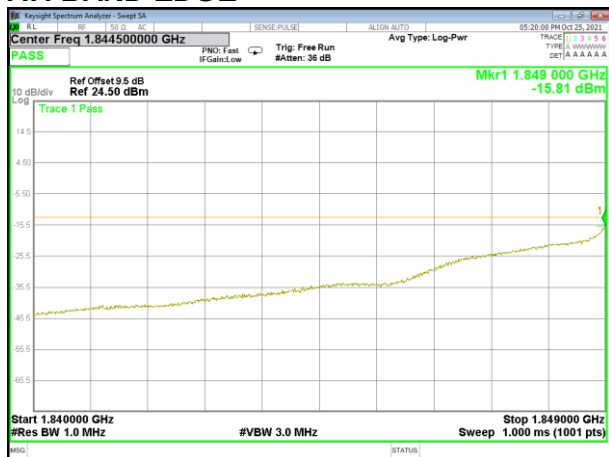
HSUPA_Band 2_Low



HSUPA_Band 2_Middle



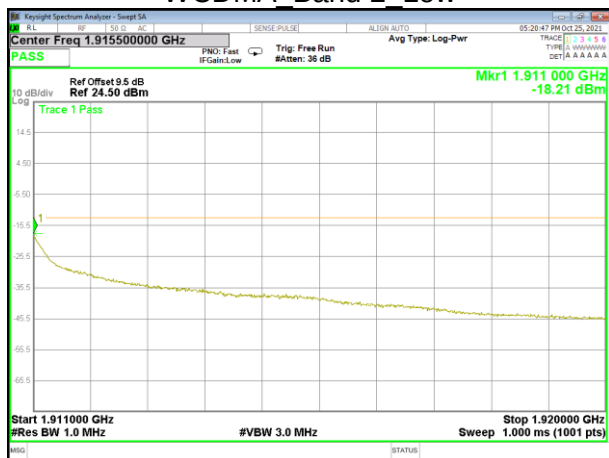
HSUPA_Band 2_High

**A7. BAND EDGE**

WCDMA_Band 2_Low



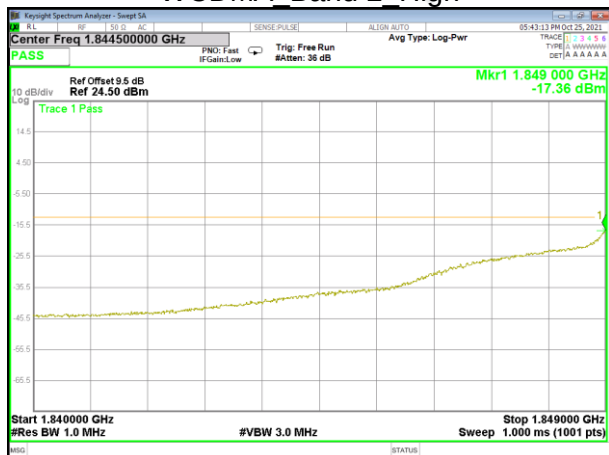
WCDMA_Band 2_Low



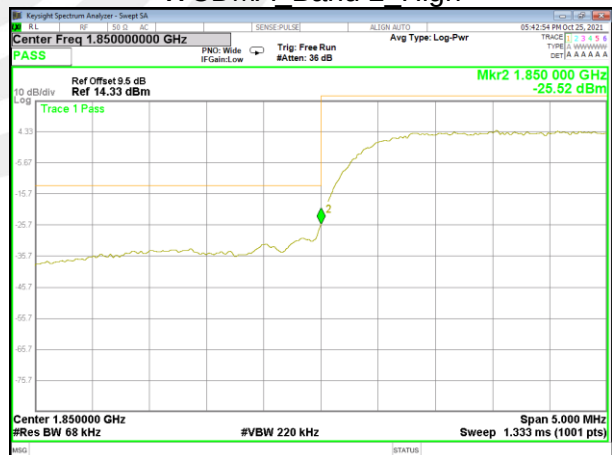
WCDMA_Band 2_High



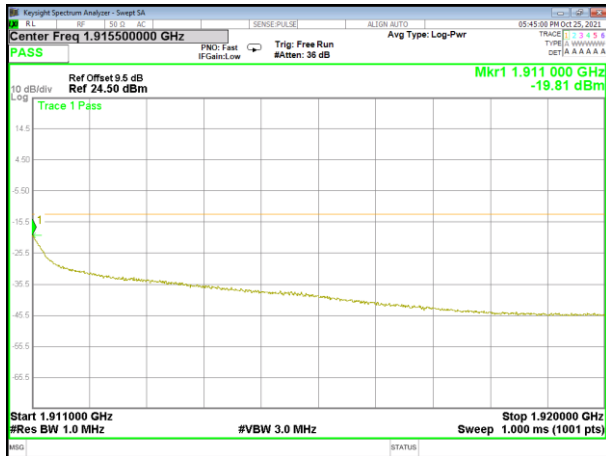
WCDMA_Band 2_High



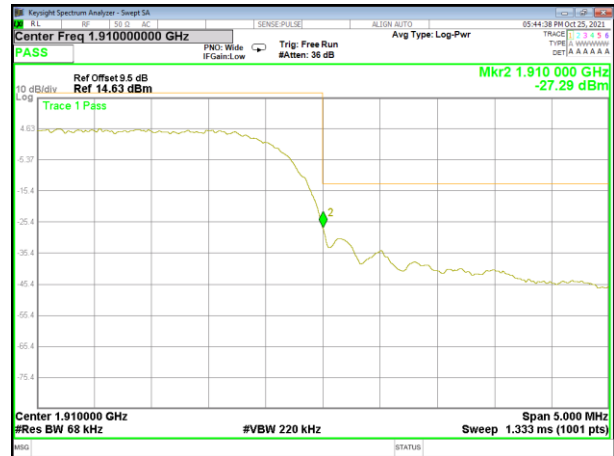
HSDPA_Band 2_Low



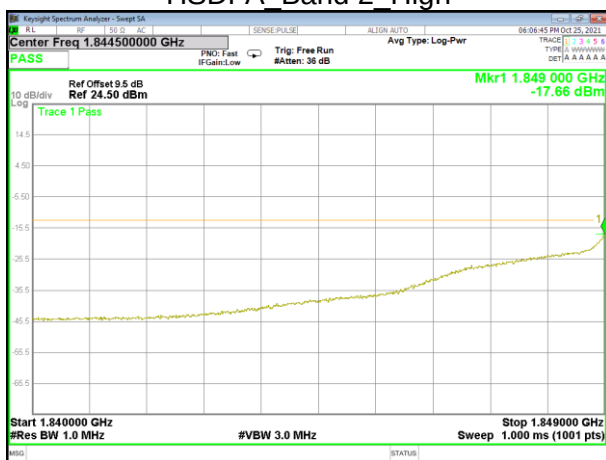
HSDPA_Band 2_Low



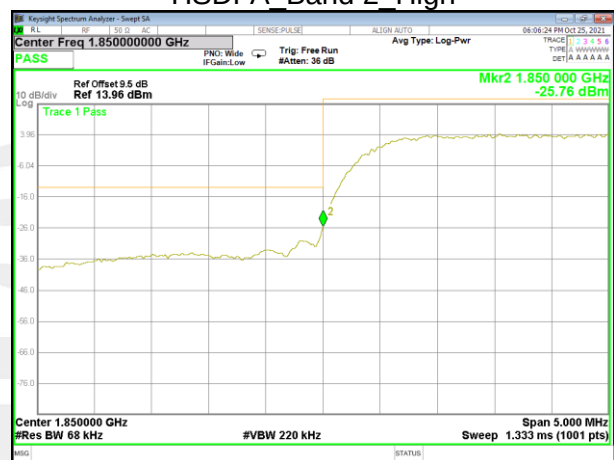
HSDPA_Band 2_High



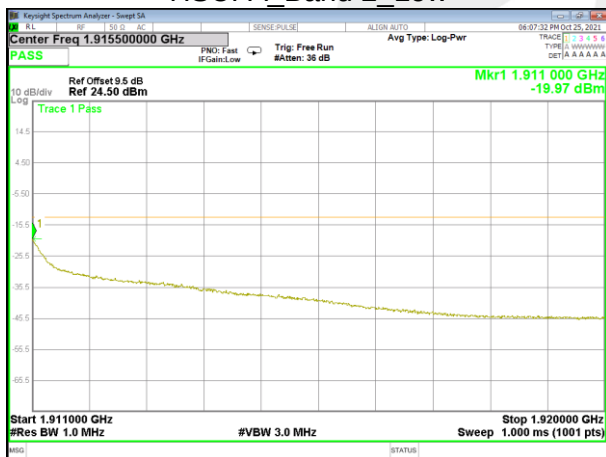
HSDPA_Band 2_High



HSUPA_Band 2_Low



HSUPA_Band 2_Low



HSUPA_Band 2_High



HSUPA_Band 2_High

**A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT**

Note:(1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

WCDMA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3704.48	-33.93	12.60	12.93	-34.26	-13.00	-21.26	H
5557.29	-34.73	13.10	17.11	-38.74	-13.00	-25.74	H
7409.75	-32.17	11.50	22.20	-42.87	-13.00	-29.87	H
3704.18	-35.05	12.60	12.93	-35.38	-13.00	-22.38	V
5557.46	-35.02	13.10	17.11	-39.03	-13.00	-26.03	V
7409.51	-33.14	11.50	22.20	-43.84	-13.00	-30.84	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.05	-34.91	12.60	12.93	-35.24	-13.00	-22.24	H
5639.84	-35.29	13.10	17.11	-39.30	-13.00	-26.30	H
7520.29	-32.66	11.50	22.20	-43.36	-13.00	-30.36	H
3760.27	-35.67	12.60	12.93	-36.00	-13.00	-23.00	V
5640.24	-34.02	13.10	17.11	-38.03	-13.00	-25.03	V
7519.99	-32.91	11.50	22.20	-43.61	-13.00	-30.61	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3815.23	-33.53	12.60	12.93	-33.86	-13.00	-20.86	H
5722.08	-34.30	13.10	17.11	-38.31	-13.00	-25.31	H
7629.91	-32.66	11.50	22.20	-43.36	-13.00	-30.36	H
3815.53	-35.81	12.60	12.93	-36.14	-13.00	-23.14	V
5722.24	-35.24	13.10	17.11	-39.25	-13.00	-26.25	V
7630.29	-32.11	11.50	22.20	-42.81	-13.00	-29.81	V



HSUPA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3704.05	-34.73	12.60	12.93	-35.06	-13.00	-22.06	H
5557.32	-34.24	13.10	17.11	-38.25	-13.00	-25.25	H
7409.48	-33.37	11.50	22.20	-44.07	-13.00	-31.07	H
3704.35	-35.92	12.60	12.93	-36.25	-13.00	-23.25	V
5557.50	-34.38	13.10	17.11	-38.39	-13.00	-25.39	V
7409.56	-32.17	11.50	22.20	-42.87	-13.00	-29.87	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.00	-34.18	12.60	12.93	-34.51	-13.00	-21.51	H
5640.11	-34.35	13.10	17.11	-38.36	-13.00	-25.36	H
7520.04	-33.47	11.50	22.20	-44.17	-13.00	-31.17	H
3759.91	-35.13	12.60	12.93	-35.46	-13.00	-22.46	V
5640.01	-34.76	13.10	17.11	-38.77	-13.00	-25.77	V
7520.04	-32.48	11.50	22.20	-43.18	-13.00	-30.18	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3815.68	-34.33	12.60	12.93	-34.66	-13.00	-21.66	H
5722.06	-34.93	13.10	17.11	-38.94	-13.00	-25.94	H
7630.05	-33.33	11.50	22.20	-44.03	-13.00	-31.03	H
3815.35	-34.92	12.60	12.93	-35.25	-13.00	-22.25	V
5722.44	-34.19	13.10	17.11	-38.20	-13.00	-25.20	V
7630.09	-33.06	11.50	22.20	-43.76	-13.00	-30.76	V



HSDPA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3704.44	-33.92	12.60	12.93	-34.25	-13.00	-21.25	H
5557.45	-34.70	13.10	17.11	-38.71	-13.00	-25.71	H
7409.64	-32.65	11.50	22.20	-43.35	-13.00	-30.35	H
3704.07	-35.02	12.60	12.93	-35.35	-13.00	-22.35	V
5557.60	-34.21	13.10	17.11	-38.22	-13.00	-25.22	V
7409.94	-32.03	11.50	22.20	-42.73	-13.00	-29.73	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.83	-34.35	12.60	12.93	-34.68	-13.00	-21.68	H
5640.12	-34.15	13.10	17.11	-38.16	-13.00	-25.16	H
7520.17	-33.51	11.50	22.20	-44.21	-13.00	-31.21	H
3760.29	-34.90	12.60	12.93	-35.23	-13.00	-22.23	V
5640.00	-34.06	13.10	17.11	-38.07	-13.00	-25.07	V
7520.10	-31.88	11.50	22.20	-42.58	-13.00	-29.58	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3815.68	-33.73	12.60	12.93	-34.06	-13.00	-21.06	H
5722.15	-34.51	13.10	17.11	-38.52	-13.00	-25.52	H
7629.96	-32.59	11.50	22.20	-43.29	-13.00	-30.29	H
3815.66	-35.03	12.60	12.93	-35.36	-13.00	-22.36	V
5722.48	-34.49	13.10	17.11	-38.50	-13.00	-25.50	V
7630.18	-32.40	11.50	22.20	-43.10	-13.00	-30.10	V