



Table of Contents	Page
C1. Conducted Output Power	2
C2. Peak-To-Average Ratio	3
C3. Transmitter Radiated Power (EIRP/ERP)	6
C4. Occupied Bandwidth(99% Occupied Bandwidth/26dB Bandwidth)	7
C5. Frequency Stability	9
C6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS	10
C7. BAND EDGE	12
C8. Field Strength of Spurious Radiation Measurement	13



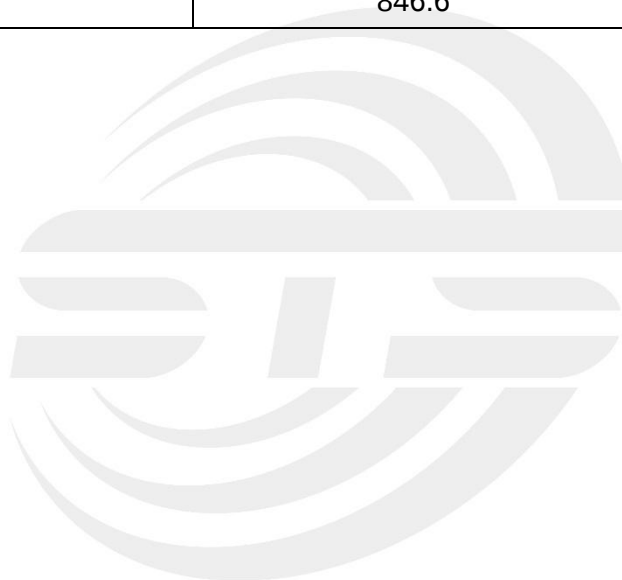
**C1.CONDUCTED OUTPUT POWER**

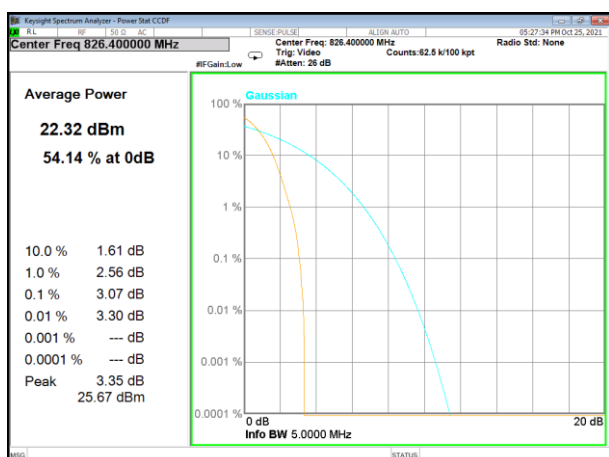
UMTS BAND V

UMTS BAND 5		
Mode	Frequency(MHz)	AVG Power
WCDMA 850 RMC	826.4	23.73
	836.6	23.81
	846.6	23.20
HSDPA Subtest 1	826.4	23.23
	836.6	23.33
	846.6	23.15
HSDPA Subtest 2	826.4	22.81
	836.6	22.83
	846.6	22.72
HSDPA Subtest 3	826.4	22.40
	836.6	22.36
	846.6	22.31
HSDPA Subtest 4	826.4	21.96
	836.6	21.99
	846.6	21.85
HSUPA Subtest 1	826.4	22.93
	836.6	23.25
	846.6	23.12
HSUPA Subtest 2	826.4	21.94
	836.6	22.29
	846.6	22.22
HSUPA Subtest 3	826.4	21.76
	836.6	21.80
	846.6	21.82
HSUPA Subtest 4	826.4	21.41
	836.6	21.41
	846.6	21.51
HSUPA Subtest 5	826.4	19.97
	836.6	19.99
	846.6	20.08

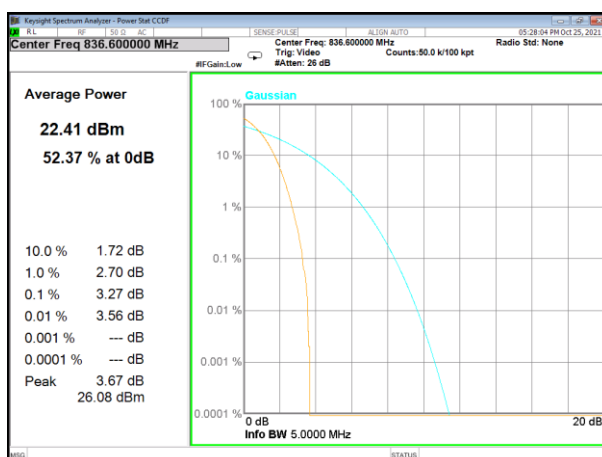
**C2. PEAK-TO-AVERAGE RADIO**

UMTS Band 5		
Mode	Frequency (MHz)	PAR
WCDMA 850 RMC	826.4	3.07
	836.6	3.27
	846.6	2.93
HSDPA 850	826.4	3.15
	836.6	3.40
	846.6	3.14
HSUPA 850	826.4	3.15
	836.6	3.32
	846.6	3.23

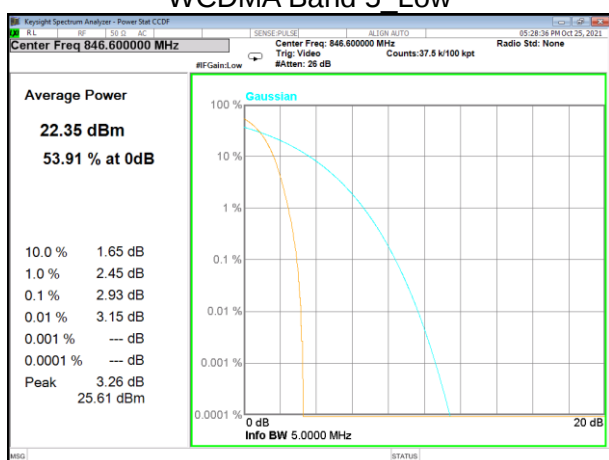




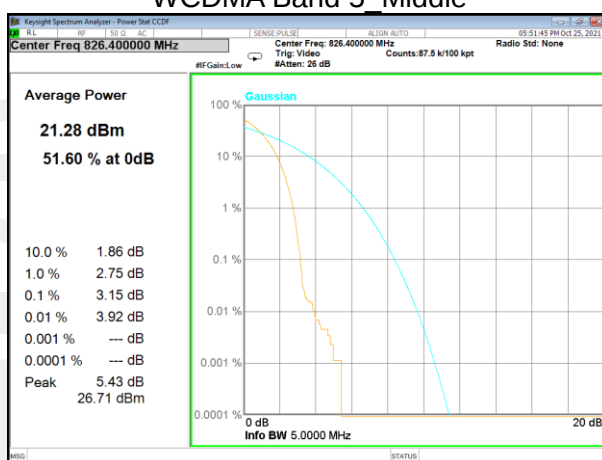
WCDMA Band 5_Low



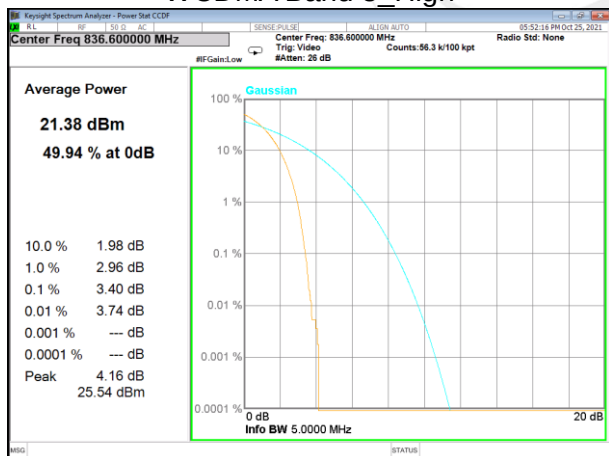
WCDMA Band 5_Middle



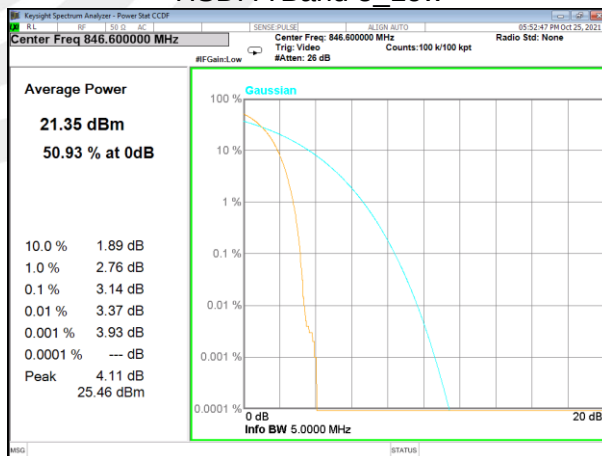
WCDMA Band 5_High



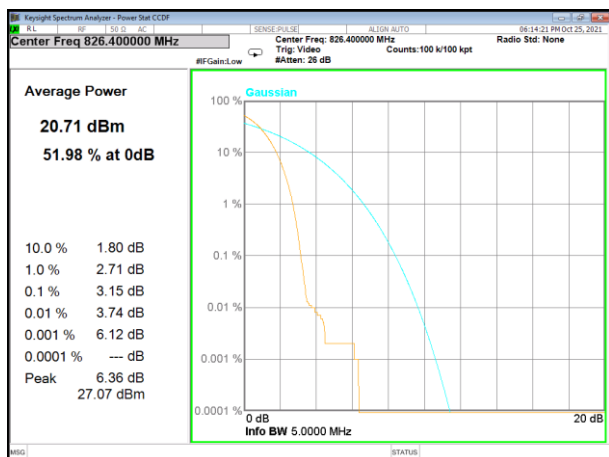
HSDPA Band 5_Low



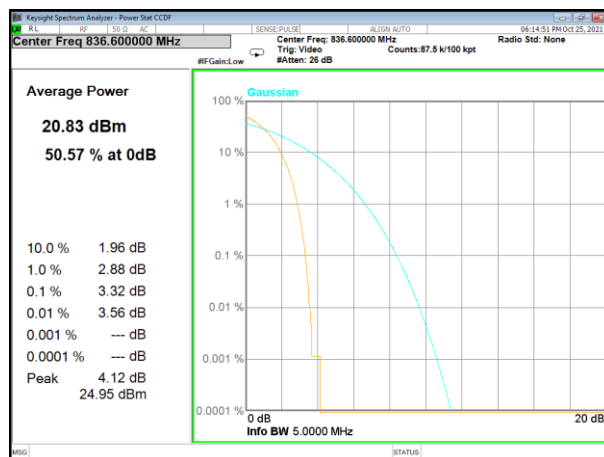
HSDPA Band 5_Middle



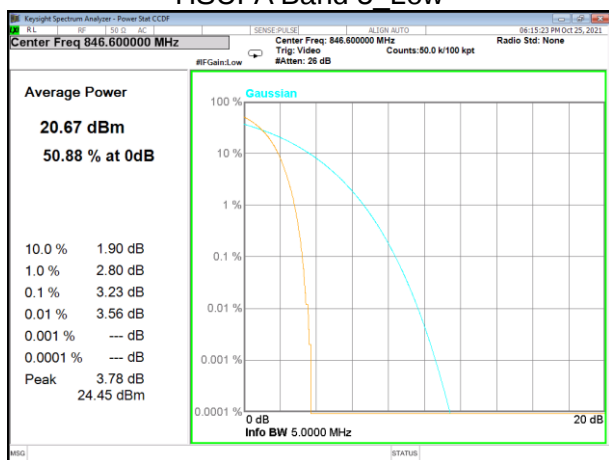
HSDPA Band 5_High



HSUPA Band 5_Low



HSUPA Band 5_Middle



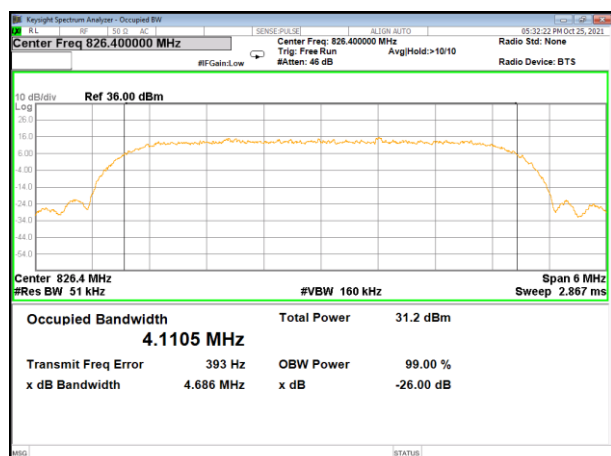
HSUPA Band 5_High

**C3. TRANSMITTER RADIATED POWER (EIRP/ERP)**

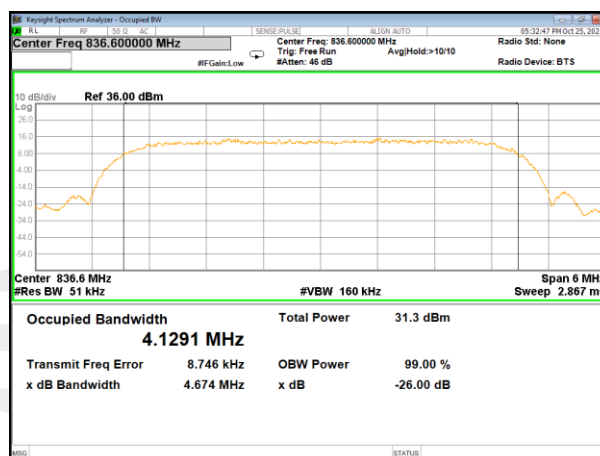
Radiated Power (ERP) for WCDMA Band 5								
Mode	Frequency	Result						Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
WCDMA	826.4	17.33	0.44	6.5	2.15	21.24	Horizontal	Pass
	826.4	19.13	0.44	6.5	2.15	23.04	Vertical	Pass
	836.6	17.36	0.45	6.5	2.15	21.26	Horizontal	Pass
	836.6	19.23	0.45	6.5	2.15	23.13	Vertical	Pass
	846.4	16.85	0.46	6.5	2.15	20.74	Horizontal	Pass
	846.4	18.72	0.46	6.5	2.15	22.61	Vertical	Pass
HSUPA	826.4	16.62	0.44	6.5	2.15	20.53	Horizontal	Pass
	826.4	18.56	0.44	6.5	2.15	22.47	Vertical	Pass
	836.6	16.82	0.45	6.5	2.15	20.72	Horizontal	Pass
	836.6	18.69	0.45	6.5	2.15	22.59	Vertical	Pass
	846.4	16.82	0.46	6.5	2.15	20.71	Horizontal	Pass
	846.4	18.55	0.46	6.5	2.15	22.44	Vertical	Pass
HSDPA	826.4	16.53	0.44	6.5	2.15	20.44	Horizontal	Pass
	826.4	18.47	0.44	6.5	2.15	22.38	Vertical	Pass
	836.6	16.82	0.45	6.5	2.15	20.72	Horizontal	Pass
	836.6	18.64	0.45	6.5	2.15	22.54	Vertical	Pass
	846.4	16.65	0.46	6.5	2.15	20.54	Horizontal	Pass
	846.4	18.48	0.46	6.5	2.15	22.37	Vertical	Pass
Limit	ERP<7W=38.45dBm							

**C4. OCCUPIED BANDWIDTH(99% OCCUPIED BANDWIDTH/26dB BANDWIDTH)**

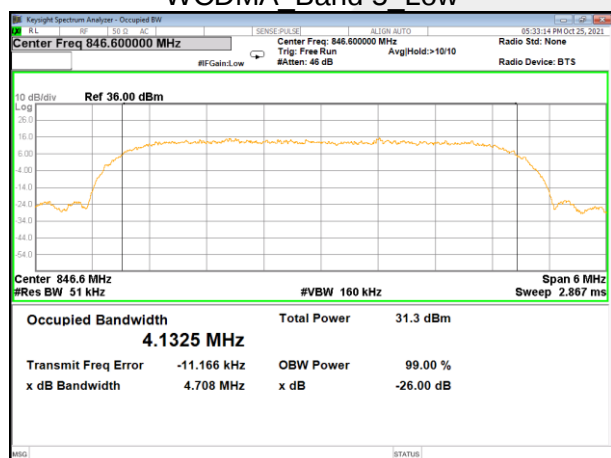
WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA 5	4.1105	4.686	4.129	4.674	4.135	4.705
HSDPA 5	4.139	5.506	4.135	4.683	4.132	4.707
HSUPA 5	4.151	5.717	4.136	4.702	4.136	4.698



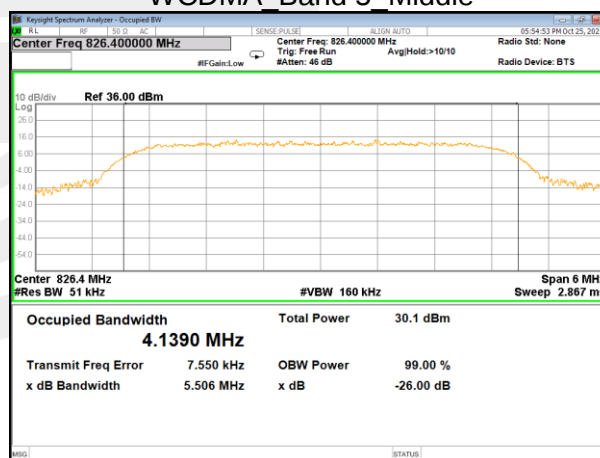
WCDMA Band 5 Low



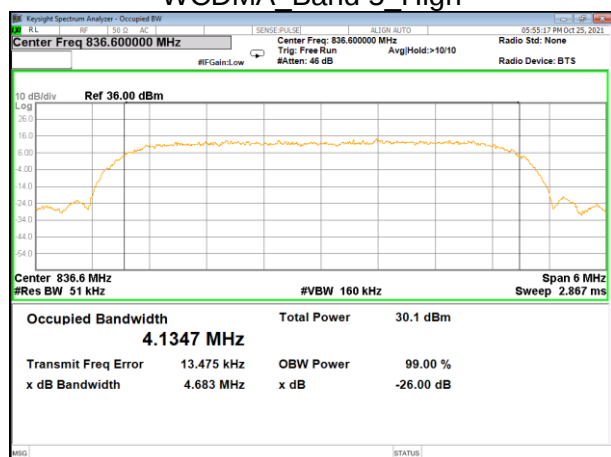
WCDMA Band 5 Middle



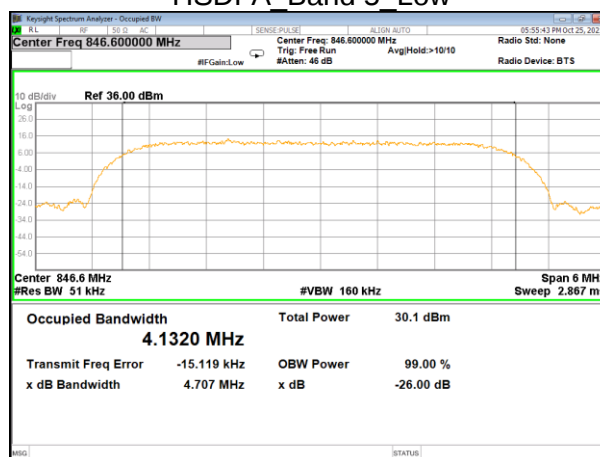
WCDMA Band 5 High



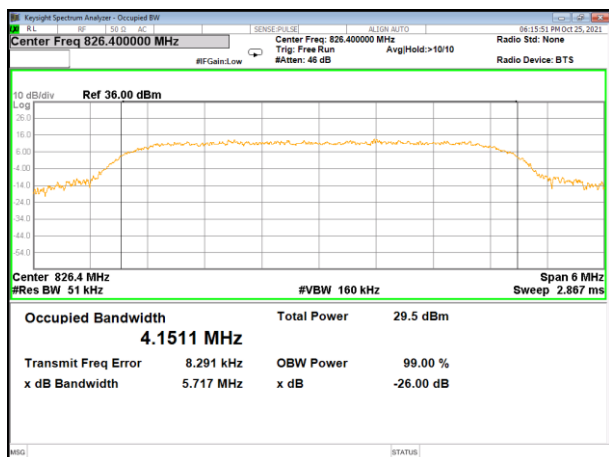
HSDPA Band 5 Low



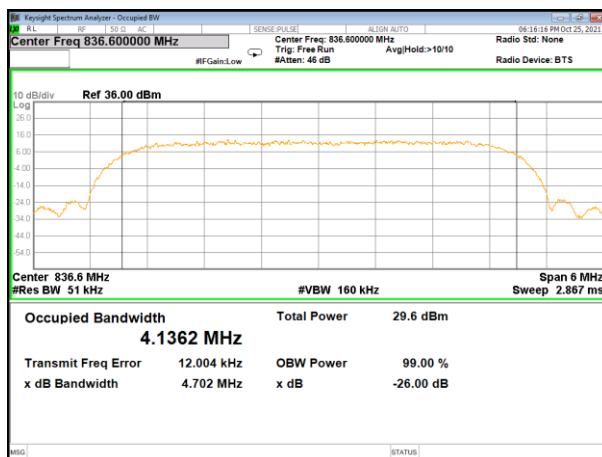
HSDPA Band 5 Middle



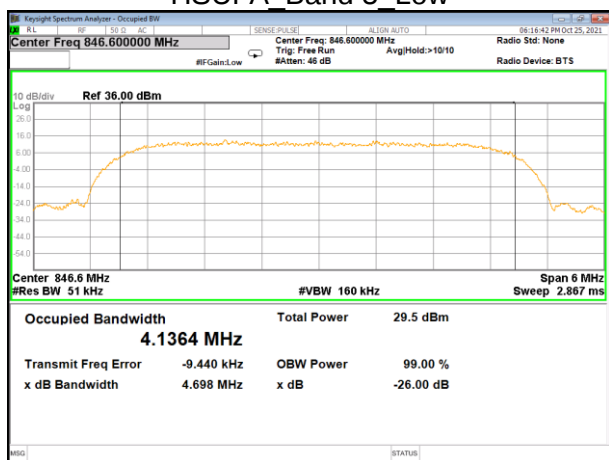
HSDPA Band 5 High



HSUPA_Band 5_Low



HSUPA_Band 5_Middle



HSUPA_Band 5_High

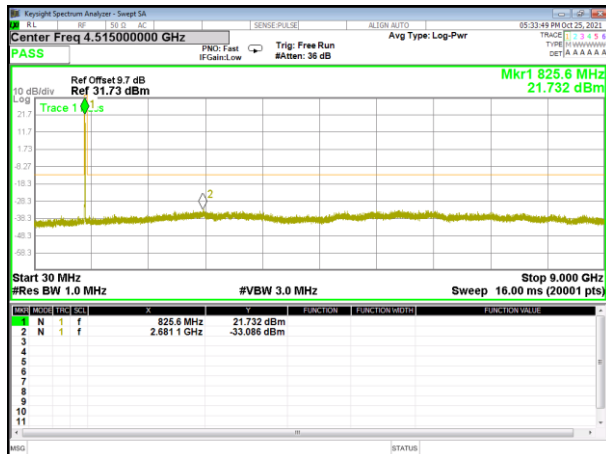
**C5.FREQUENCY STABILITY**

UMTS Band 5 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	17.99	0.022	2.5ppm	PASS
40		13.00	0.016		
30		24.54	0.029		
20		31.45	0.038		
10		25.53	0.031		
0		33.65	0.040		
-10		24.84	0.030		
-20		15.10	0.018		
-30		32.02	0.038		
20	Maximum Voltage	17.52	0.021		
20	BEP	18.83	0.023		

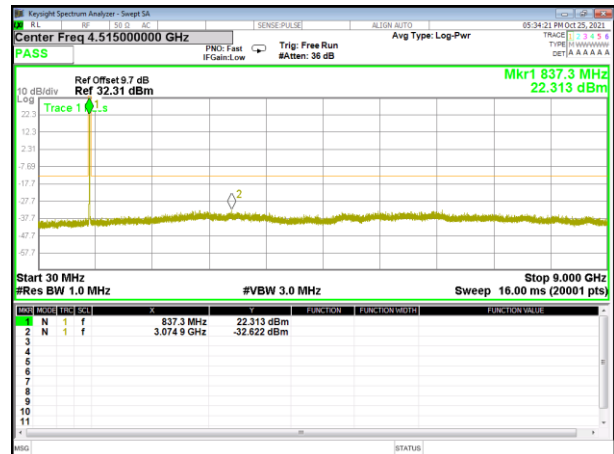
HSDPA Band 5 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)		(ppm)		
50	Normal Voltage	11.55	0.014	2.5ppm	PASS
40		34.36	0.041		
30		34.77	0.042		
20		26.70	0.032		
10		13.27	0.016		
0		29.65	0.035		
-10		25.89	0.031		
-20		27.64	0.033		
-30		33.95	0.041		
20	Maximum Voltage	13.23	0.016		
20	BEP	12.42	0.015		

HSUPA Band 5 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	15.21	0.018	2.5ppm	PASS
40		22.28	0.027		
30		15.40	0.018		
20		18.58	0.022		
10		32.08	0.038		
0		20.29	0.024		
-10		20.62	0.025		
-20		34.98	0.042		
-30		20.78	0.025		
20	Maximum Voltage	35.76	0.043		
20	BEP	35.32	0.042		

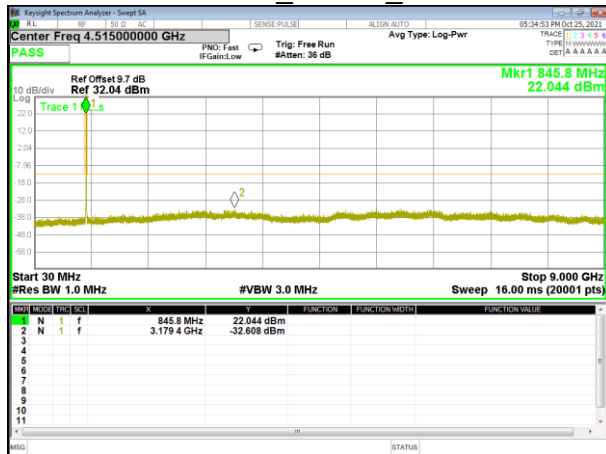
1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

**C6.SPURIOUS EMISSIONS AT ANTENNA TERMINALS**

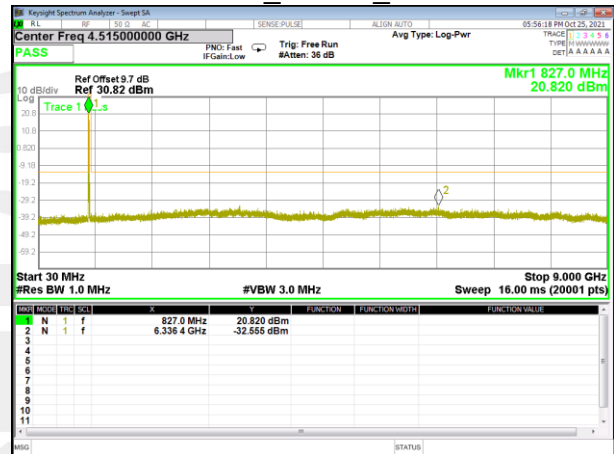
WCDMA_Band 5_Low



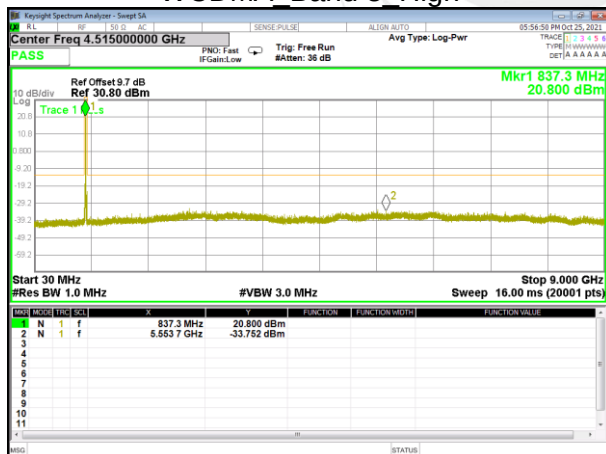
WCDMA_Band 5_Middle



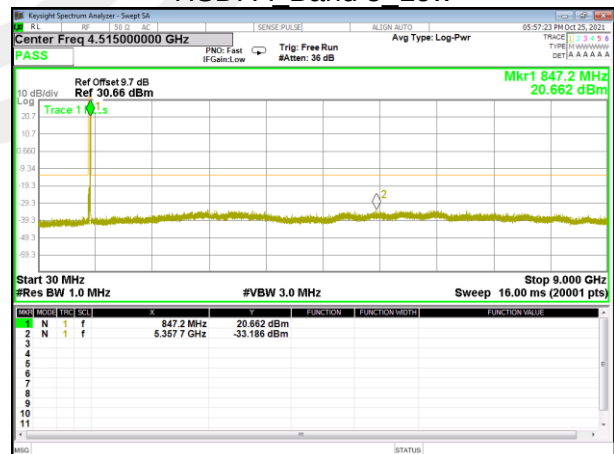
WCDMA_Band 5_High



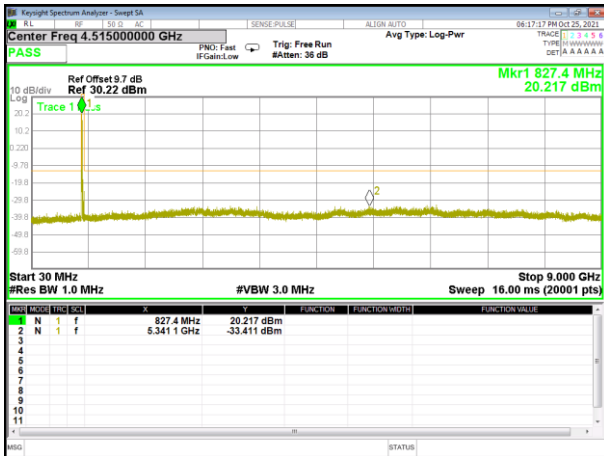
HSDPA_Band 5_Low



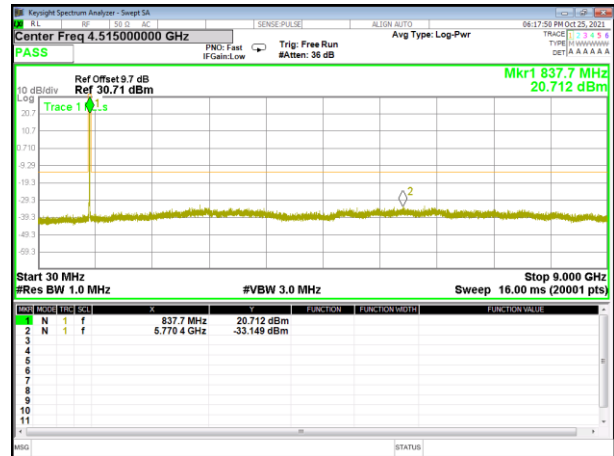
HSDPA_Band 5_Middle



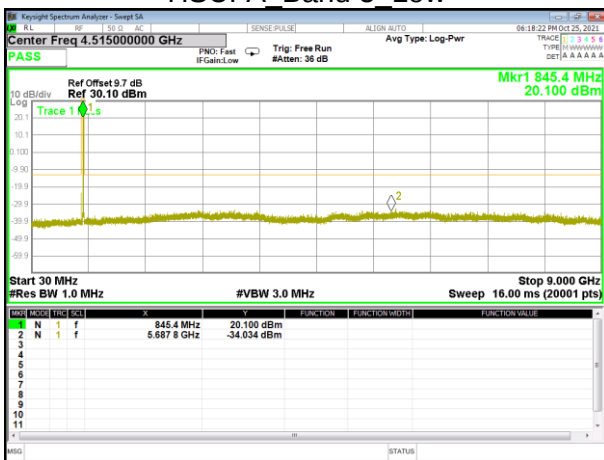
HSDPA_Band 5_High



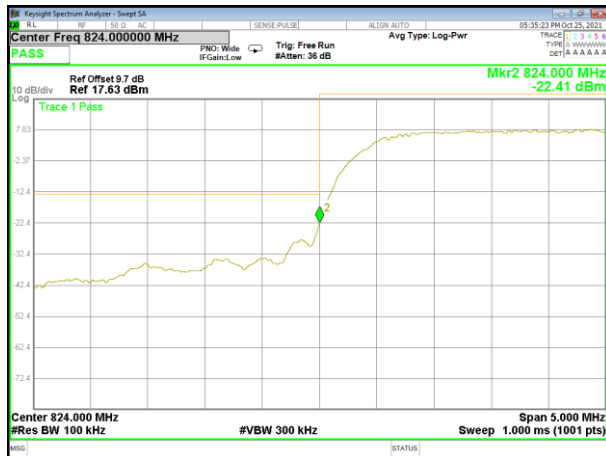
HSUPA_Band 5_Low



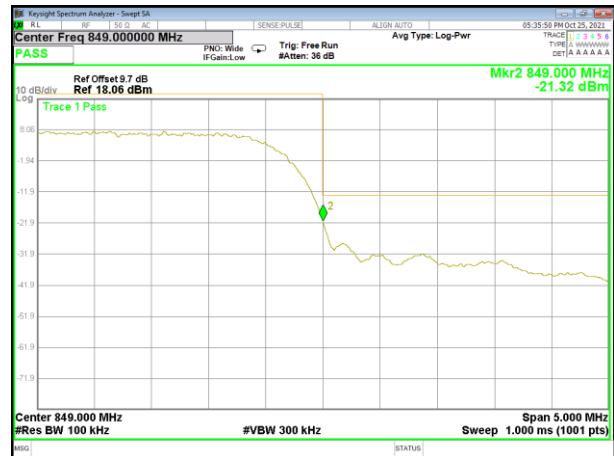
HSUPA_Band 5_Middle



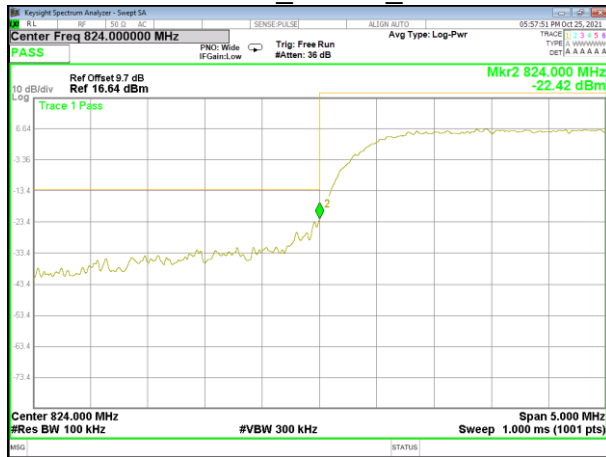
HSUPA_Band 5_High

**C7. BAND EDGE**

WCDMA_Band 5_Low



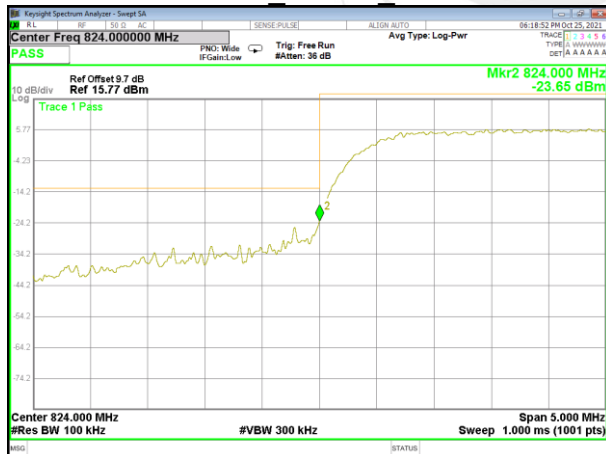
WCDMA_Band 5_High



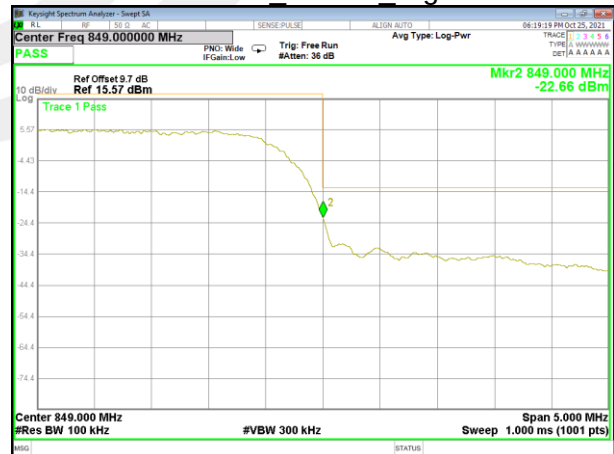
HSDPA_Band 5_Low



HSDPA_Band 5_High



HSUPA_Band 5_Low



HSUPA_Band 5_High

**C8. 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 5: (30-9000)MHz							
The worst testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.47	-40.25	9.40	4.75	-35.60	-13.00	-22.60	H
2479.25	-39.82	10.60	8.39	-37.61	-13.00	-24.61	H
3305.67	-31.40	12.00	11.79	-31.19	-13.00	-18.19	H
1652.14	-43.23	9.40	4.75	-38.58	-13.00	-25.58	V
2479.67	-44.80	10.60	8.39	-42.59	-13.00	-29.59	V
3305.80	-43.76	12.00	11.79	-43.55	-13.00	-30.55	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.05	-40.83	9.40	4.75	-36.18	-13.00	-23.18	H
2509.52	-40.58	10.60	8.39	-38.37	-13.00	-25.37	H
3346.14	-31.75	12.00	11.79	-31.54	-13.00	-18.54	H
1673.00	-44.00	9.40	4.75	-39.35	-13.00	-26.35	V
2509.74	-44.57	10.60	8.39	-42.36	-13.00	-29.36	V
3346.33	-42.79	12.00	11.79	-42.58	-13.00	-29.58	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1693.67	-40.19	9.40	4.75	-35.54	-13.00	-22.54	H
2539.16	-39.89	10.60	8.39	-37.68	-13.00	-24.68	H
3385.88	-31.90	12.00	11.79	-31.69	-13.00	-18.69	H
1693.22	-43.97	9.40	4.75	-39.32	-13.00	-26.32	V
2539.51	-44.04	10.60	8.39	-41.83	-13.00	-28.83	V
3385.95	-43.38	12.00	11.79	-43.17	-13.00	-30.17	V



HSUPA Band 5: (30-9000)MHz							
The worst testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.01	-40.65	9.40	4.75	-36.00	-13.00	-23.00	H
2479.37	-39.56	10.60	8.39	-37.35	-13.00	-24.35	H
3305.85	-31.27	12.00	11.79	-31.06	-13.00	-18.06	H
1652.06	-44.23	9.40	4.75	-39.58	-13.00	-26.58	V
2479.35	-45.03	10.60	8.39	-42.82	-13.00	-29.82	V
3305.49	-42.59	12.00	11.79	-42.38	-13.00	-29.38	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.09	-41.56	9.40	4.75	-36.91	-13.00	-23.91	H
2509.43	-39.25	10.60	8.39	-37.04	-13.00	-24.04	H
3346.30	-31.57	12.00	11.79	-31.36	-13.00	-18.36	H
1673.15	-43.40	9.40	4.75	-38.75	-13.00	-25.75	V
2509.58	-44.85	10.60	8.39	-42.64	-13.00	-29.64	V
3346.34	-43.84	12.00	11.79	-43.63	-13.00	-30.63	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1693.29	-40.86	9.40	4.75	-36.21	-13.00	-23.21	H
2539.12	-40.14	10.60	8.39	-37.93	-13.00	-24.93	H
3385.95	-31.75	12.00	11.79	-31.54	-13.00	-18.54	H
1693.21	-44.12	9.40	4.75	-39.47	-13.00	-26.47	V
2539.24	-44.30	10.60	8.39	-42.09	-13.00	-29.09	V
3386.29	-43.21	12.00	11.79	-43.00	-13.00	-30.00	V



HSDPA Band 5: (30-9000)MHz							
The worst testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.30	-41.16	9.40	4.75	-36.51	-13.00	-23.51	H
2479.57	-39.38	10.60	8.39	-37.17	-13.00	-24.17	H
3305.66	-31.53	12.00	11.79	-31.32	-13.00	-18.32	H
1652.01	-44.32	9.40	4.75	-39.67	-13.00	-26.67	V
2479.50	-45.34	10.60	8.39	-43.13	-13.00	-30.13	V
3305.68	-43.68	12.00	11.79	-43.47	-13.00	-30.47	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.20	-40.40	9.40	4.75	-35.75	-13.00	-22.75	H
2509.66	-39.66	10.60	8.39	-37.45	-13.00	-24.45	H
3346.21	-32.12	12.00	11.79	-31.91	-13.00	-18.91	H
1672.98	-43.71	9.40	4.75	-39.06	-13.00	-26.06	V
2509.52	-44.06	10.60	8.39	-41.85	-13.00	-28.85	V
3346.24	-43.54	12.00	11.79	-43.33	-13.00	-30.33	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1693.65	-41.10	9.40	4.75	-36.45	-13.00	-23.45	H
2539.16	-39.36	10.60	8.39	-37.15	-13.00	-24.15	H
3386.25	-31.21	12.00	11.79	-31.00	-13.00	-18.00	H
1693.23	-43.78	9.40	4.75	-39.13	-13.00	-26.13	V
2539.49	-44.04	10.60	8.39	-41.83	-13.00	-28.83	V
3385.95	-42.71	12.00	11.79	-42.50	-13.00	-29.50	V