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# Appendix B.2

WCDMA Band IV



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band IV\_EIRP

#### 1.1.1 Test Result

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band IV	1312	23.46	24.93	30	PASS
Band IV	1413	23.14	24.61	30	PASS
Band IV	1513	23.3	24.77	30	PASS



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## 2. Frequency Stability

#### 2.1 Band IV

#### 2.1.1 Test Result

				Band IV			
Motwork	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. R	ated (ppm)	Verdict
Network	(MHz)	(°C)	(VDC)	(Hz)	Result	Limit	verdict
			3.135	12.816	0.0075	/	Pass
		20	3.7	13.371	0.0078	/	Pass
			4.4	13.033	0.0076	/	Pass
		-30	3.7	12.987	0.0076	/	Pass
		-20	3.7	13.877	0.0081	/	Pass
	1712.4	-10	3.7	13.320	0.0078	/	Pass
		0	3.7	13.418	0.0078	/	Pass
		10	3.7	13.618	0.0080	/	Pass
		30	3.7	13.456	0.0079	/	Pass
		40	3.7	13.375	0.0078	/	Pass
		50	3.7	13.271	0.0077	/	Pass
			3.135	-2.966	-0.0017	/	Pass
		20	3.7	-2.853	-0.0016	/	Pass
	1732.6		4.4	-3.798	-0.0022	/	Pass
		-30	3.7	-3.166	-0.0018	/	Pass
		-20	3.7	-3.564	-0.0021	/	Pass
RMC		-10	3.7	-2.967	-0.0017	/	Pass
		0	3.7	-3.321	-0.0019	/	Pass
		10	3.7	-3.237	-0.0019	/	Pass
		30	3.7	-3.373	-0.0019	/	Pass
		40	3.7	-3.191	-0.0018	/	Pass
		50	3.7	-2.913	-0.0017	/	Pass
			3.135	-12.075	-0.0069	/	Pass
		20	3.7	-11.875	-0.0068	/	Pass
			4.4	-12.509	-0.0071	/	Pass
		-30	3.7	-11.575	-0.0066	/	Pass
		-20	3.7	-11.759	-0.0067	/	Pass
	1752.6	-10	3.7	-11.804	-0.0067	/	Pass
		0	3.7	-11.785	-0.0067	/	Pass
		10	3.7	-12.253	-0.0070	/	Pass
		30	3.7	-12.107	-0.0069	/	Pass
		40	3.7	-12.465	-0.0071	/	Pass
		50	3.7	-11.658	-0.0067	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band IV\_OBW

#### 3.1.1 Test Result

Band IV										
ENV		Mode	Frequency	99% Occupied E	Bandwidth (MHz)	Verdict				
□IN V	Network	Subset	(MHz)	Result	Limit	verdict				
			1712.4	4.173	/	Pass				
NTNV	RMC	12.2kbps RMC	1732.6	4.154	1	Pass				
		·	1752.6	4.171	/	Pass				



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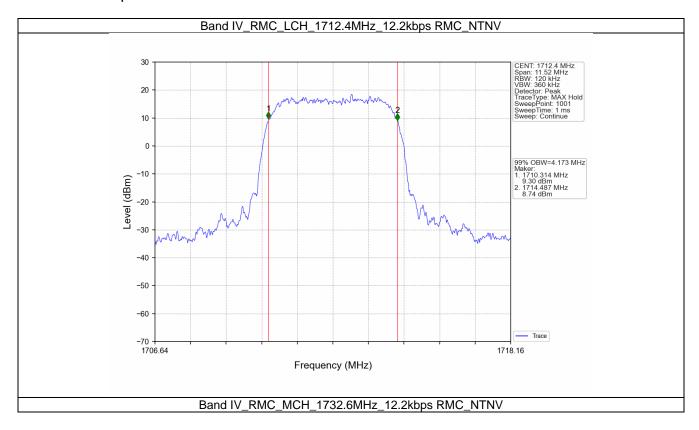
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#### 3.1.2 Test Graph





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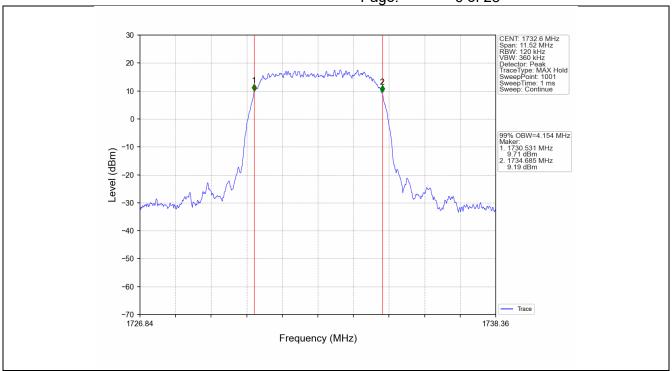
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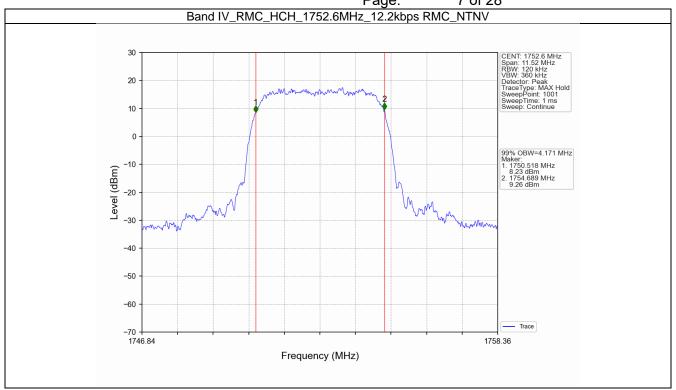
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### 3.2 Band IV\_XDB

#### 3.2.1 Test Result

	Band IV										
ENV		Mode	Frequency	26dB Band	width (MHz)	Verdict					
LINV	Network	Subset	(MHz)	Result	Limit	verdict					
			1712.4	4.755	/	Pass					
NTNV	RMC	12.2kbps RMC	1732.6	4.771	/	Pass					
			1752.6	4.771	/	Pass					



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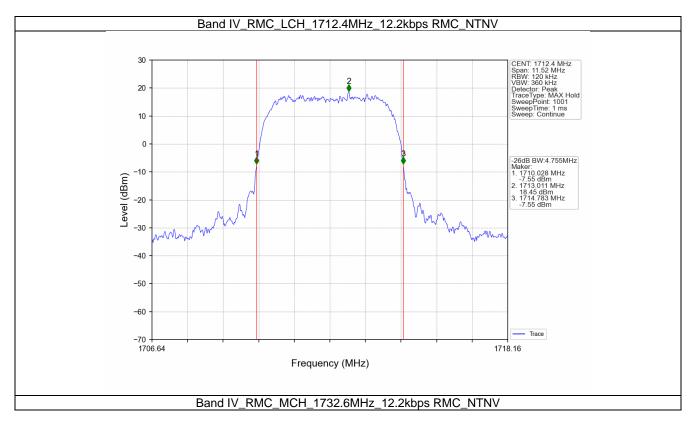
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### 3.2.2 Test Graph





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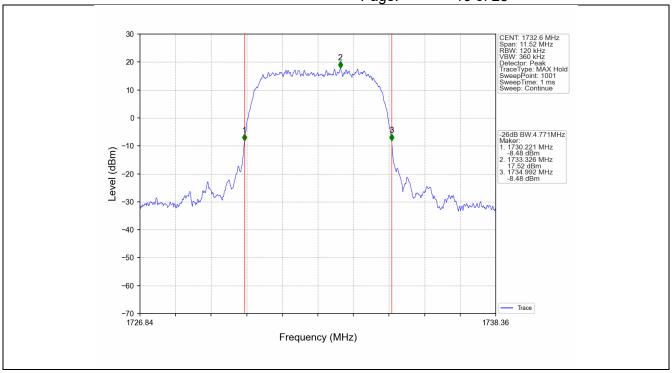
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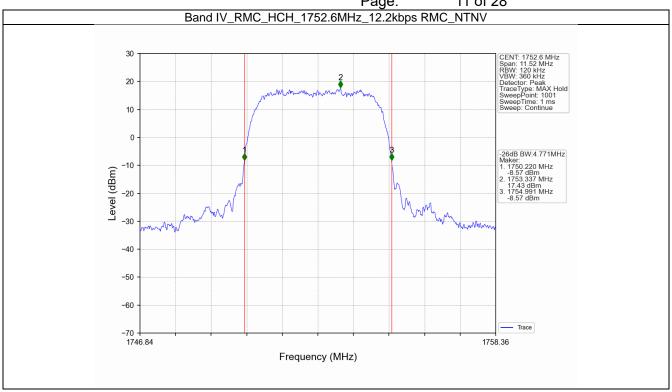
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### 4. Peak-Average Ratio

#### 4.1 Band IV

#### 4.1.1 Test Result

	Band IV										
ENV		Mode	Frequency	y Peak-Average Ratio (dB)		Verdict					
EINV	Network Subset		(MHz)	Result	Result Limit						
			1712.4	2.95	<=13	Pass					
NTNV	RMC	12.2kbps RMC	1732.6	2.85	<=13	Pass					
			1752.6	2.99	<=13	Pass					



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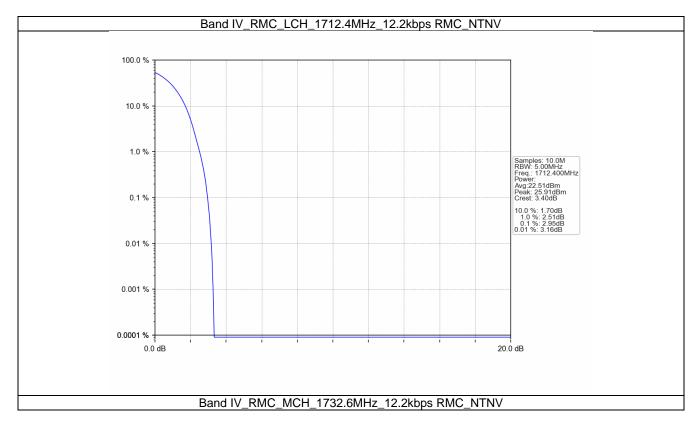




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### 4.1.2 Test Graph





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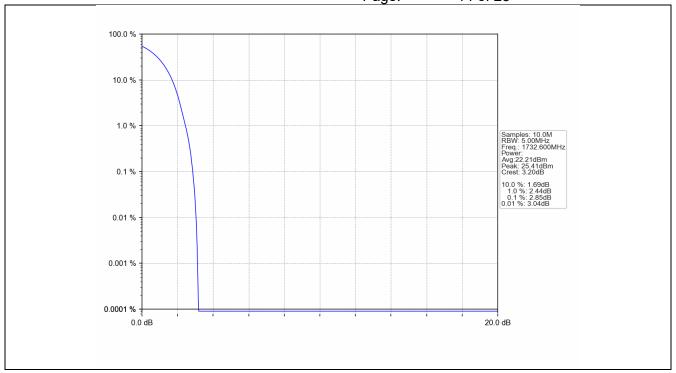
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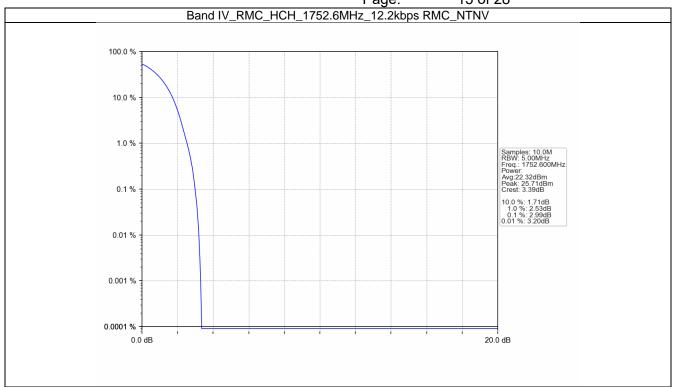
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## 5. Spurious Emission & Band Edges

#### 5.1 Band IV

#### 5.1.1 Test Result

	Band IV										
ENV		Mode	Frequency	Spurious Em	ission	Verdict					
EINV	Network	Subset	(MHz)	Result	Limit	verdict					
			1712.4	Refer To Test	Graph	Pass					
NTNV	RMC	12.2kbps RMC	1732.6	Refer To Test	Graph	Pass					
			1752.6	Refer To Test	Graph	Pass					



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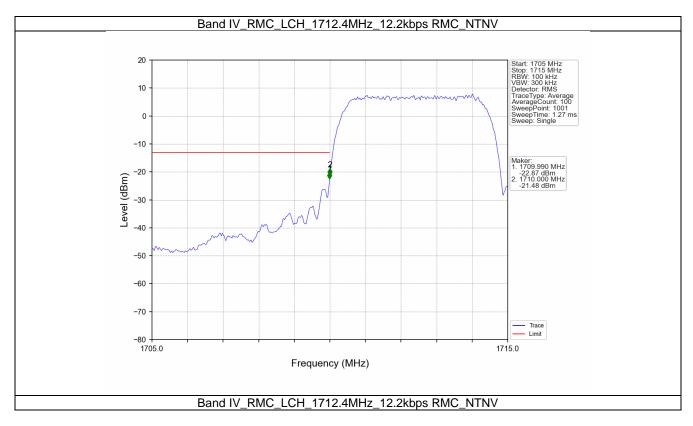




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### 5.1.2 Test Graph





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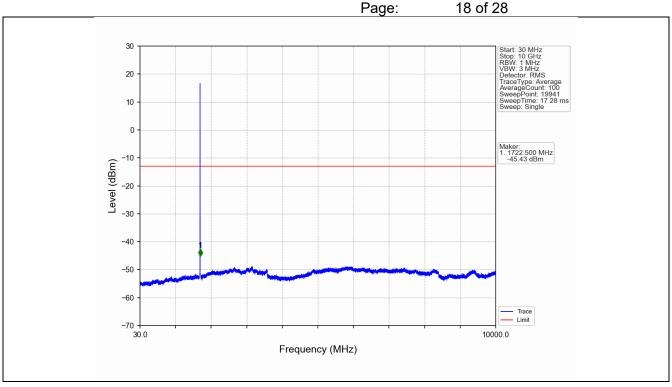
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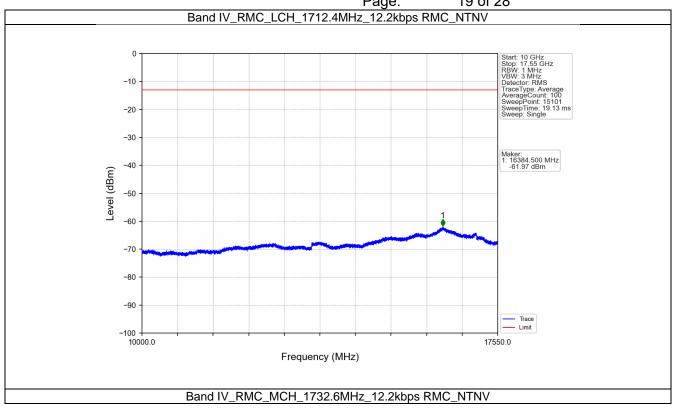
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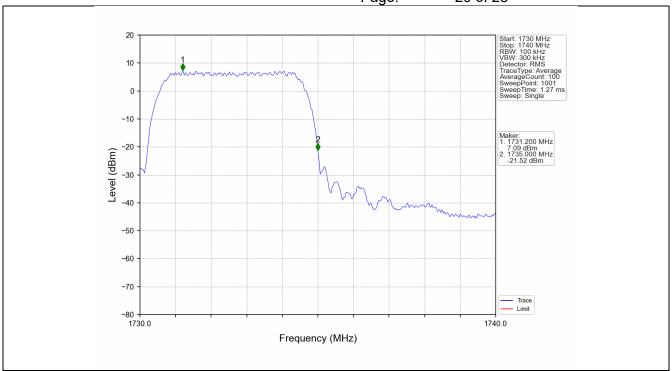
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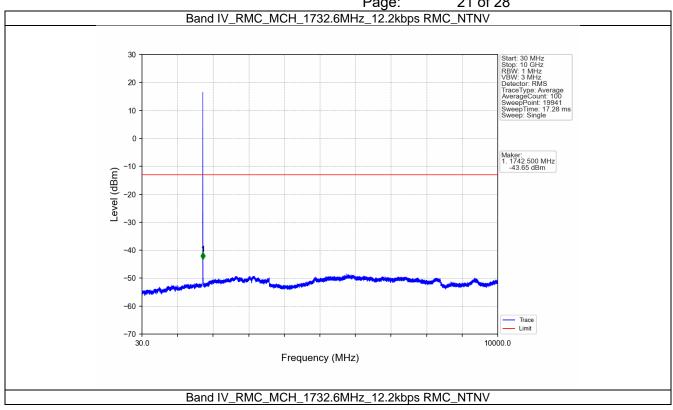
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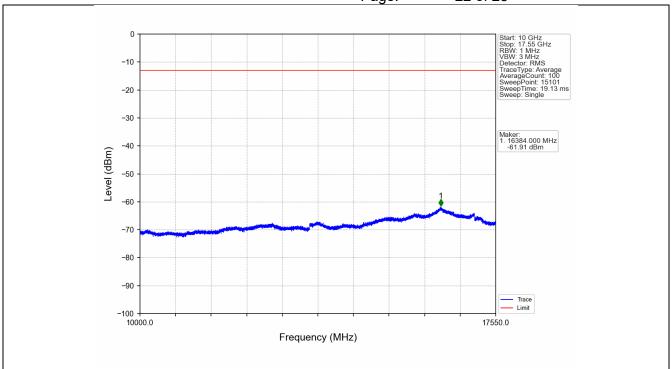
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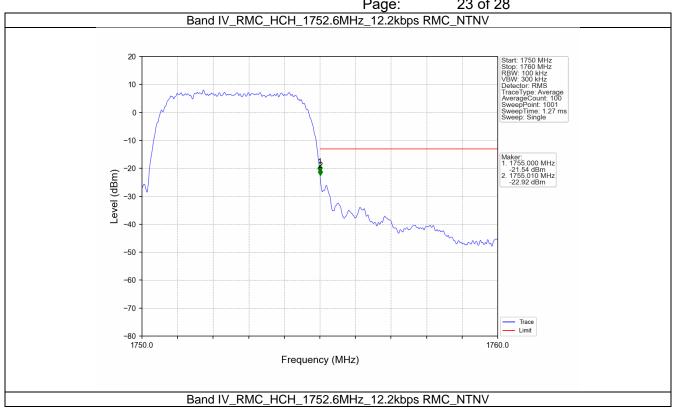
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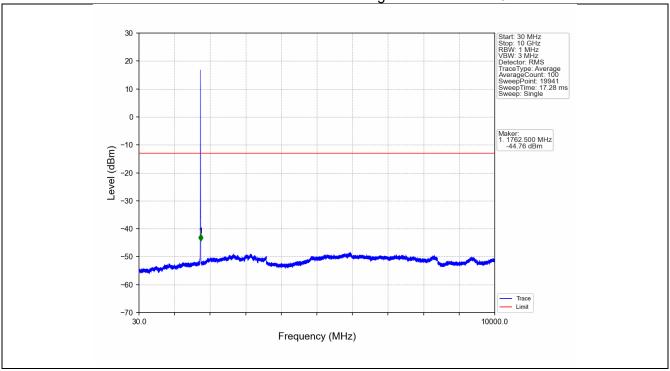
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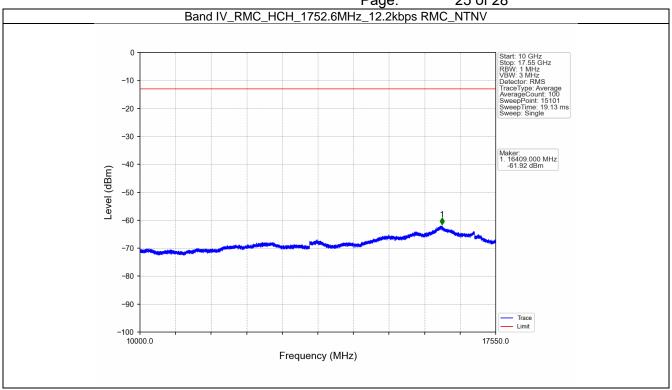
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## 6. Field Strength of Spurious Radiation

Test Band = WCDMA\_ Band IV Test Channel = LCH

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3621.7811	53.38	-49.53	30.29	-61.12	-13.00	48.12	Horizontal				
2	5140.607	52.03	-47.23	33.58	-56.88	-13.00	43.88	Horizontal				
3	7464.9732	50.12	-43.49	36.67	-51.96	-13.00	38.96	Horizontal				
4	9491.5746	49.11	-40.66	39.17	-47.64	-13.00	34.64	Horizontal				
5	14546.8273	46.15	-35.24	40.55	-43.80	-13.00	30.80	Horizontal				
6	17988.7494	48.48	-38.97	42.73	-43.02	-13.00	30.02	Horizontal				

Final Da	Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	3617.2809	53.94	-49.53	30.27	-60.58	-13.00	47.58	Vertical			
2	5081.3541	51.86	-47.47	33.46	-57.41	-13.00	44.41	Vertical			
3	7830.9916	49.31	-42.94	37.10	-51.79	-13.00	38.79	Vertical			
4	9482.5741	49.16	-40.75	39.13	-47.72	-13.00	34.72	Vertical			
5	15023.1012	46.83	-35.07	39.88	-43.62	-13.00	30.62	Vertical			
6	17996.9998	48.52	-38.99	42.78	-42.95	-13.00	29.95	Vertical			



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#### Test Band = WCDMA Band IV Test Channel = MCH

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3735.7868	53.52	-49.61	30.44	-60.91	-13.00	47.91	Horizontal				
2	5150.3575	51.98	-47.17	33.59	-56.86	-13.00	43.86	Horizontal				
3	7365.9683	49.94	-43.54	36.87	-51.99	-13.00	38.99	Horizontal				
4	9488.5744	49.43	-40.69	39.15	-47.37	-13.00	34.37	Horizontal				
5	13403.0202	47.15	-36.63	40.29	-44.45	-13.00	31.45	Horizontal				
6	17999.25	48.41	-38.99	42.80	-43.04	-13.00	30.04	Horizontal				

Final Da	Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	3629.2815	53.75	-49.52	30.32	-60.71	-13.00	47.71	Vertical			
2	5148.8574	51.90	-47.19	33.60	-56.95	-13.00	43.95	Vertical			
3	8068.0034	49.53	-42.81	37.56	-50.98	-13.00	37.98	Vertical			
4	9475.0738	50.03	-40.83	39.10	-46.96	-13.00	33.96	Vertical			
5	14999.85	46.48	-34.77	39.90	-43.65	-13.00	30.65	Vertical			
6	17905.4953	48.49	-38.11	42.23	-42.65	-13.00	29.65	Vertical			



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#### Test Band = WCDMA Band IV Test Channel = HCH

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3615.7808	53.82	-49.53	30.26	-60.71	-13.00	47.71	Horizontal				
2	4350.0675	53.03	-48.74	31.90	-59.07	-13.00	46.07	Horizontal				
3	6618.1809	50.31	-44.80	35.65	-54.10	-13.00	41.10	Horizontal				
4	8544.2772	49.38	-41.47	38.96	-48.39	-13.00	35.39	Horizontal				
5	11187.4094	47.39	-39.10	39.66	-47.31	-13.00	34.31	Horizontal				
6	15032.8516	47.10	-35.20	39.87	-43.49	-13.00	30.49	Horizontal				

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3753.7877	53.71	-49.47	30.50	-60.52	-13.00	47.52	Vertical				
2	5105.3553	52.33	-47.44	33.51	-56.86	-13.00	43.86	Vertical				
3	7842.2421	50.18	-42.85	37.10	-50.83	-13.00	37.83	Vertical				
4	11374.1687	47.65	-38.65	39.67	-46.59	-13.00	33.59	Vertical				
5	15034.3517	47.21	-35.22	39.87	-43.40	-13.00	30.40	Vertical				
6	17998.4999	48.36	-38.99	42.79	-43.10	-13.00	30.10	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

---End of Attachment---



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