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# Appendix B.4

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 IV											
ENV	Mode		Frequency	Conducted Power	Gain	EIRP (dBm)		Verdict				
□INV	Network	Subset	(MHz)	(dBm)	(dBi)	Result	Limit	verdict				
			1712.4	18.39	0.14	18.53	<=30	Pass				
NTNV	RMC	12.2kbps RMC	1732.6	18.56	0.14	18.7	<=30	Pass				
1752.6 18.74 0.14 18.88 <=30 Pass												
Note1: EIRP=Conducted Power+Antenna Gain												



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## 2. Frequency Stability

#### 2.1 Band IV

#### 2.1.1 Test Result

				Band IV			
Network	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. R	ated (ppm)	Verdict
Network	(MHz)	(°C)	(VDC)	(Hz)	Result	Limit	verdict
			3.5	0.376	0.0002	/	Pass
		20	3.87	0.206	0.0001	/	Pass
			4.45	-0.219	-0.0001	/	Pass
		-30	3.87	0.910	0.0005	/	Pass
		-20	3.87	0.535	0.0003	/	Pass
	1712.4	-10	3.87	0.350	0.0002	/	Pass
		0	3.87	1.809	0.0011	/	Pass
		10	3.87	0.849	0.0005	/	Pass
		30	3.87	1.184	0.0007	/	Pass
		40	3.87	-0.404	-0.0002	/	Pass
		50	3.87	0.707	0.0004	/	Pass
			3.5	1.101	0.0006	/	Pass
		20	3.87	-1.878	-0.0011	/	Pass
			4.45	0.410	0.0002	/	Pass
		-30	3.87	-2.550	-0.0015	/	Pass
	1732.6	-20	3.87	-2.106	-0.0012	/	Pass
RMC		/IC 1732.6	-10	3.87	-5.551	-0.0032	/
		0	3.87	2.379	0.0014	/	Pass
		10	3.87	-0.630	-0.0004	/	Pass
		30	3.87	0.968	0.0006	/	Pass
		40	3.87	-1.617	-0.0009	/	Pass
		50	3.87	-2.727	-0.0016	/	Pass
			3.5	-1.938	-0.0011	/	Pass
		20	3.87	-1.930	-0.0011	/	Pass
			4.45	-0.019	0.0000	/	Pass
		-30	3.87	-4.084	-0.0023	/	Pass
		-20	3.87	-3.407	-0.0019	/	Pass
	1752.6	-10	3.87	-4.534	-0.0026	/	Pass
		0	3.87	-1.912	-0.0011	/	Pass
		10	3.87	-3.754	-0.0021	/	Pass
		30	3.87	-4.926	-0.0028	/	Pass
		40	3.87	-3.248	-0.0019	/	Pass
		50	3.87	-4.938	-0.0028	/	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
EINV	Network	Subset	(MHz)	Result	Limit	verdict
			1712.4	4.164	/	Pass
NTNV	RMC	12.2kbps RMC	1732.6	4.164	/	Pass
			1752.6	4.149	/	Pass

## 3.2 Band IV\_XDB

#### 3.2.1 Test Result

			Band IV			
ENV	Mode		Frequency	26dB Bandwidth (MHz)		Verdict
LINV	Network	Subset	(MHz)	Result	Limit	verdict
			1712.4	4.696	/	Pass
NTNV	RMC	12.2kbps RMC	1732.6	4.726	/	Pass
			1752.6	4.729	/	Pass



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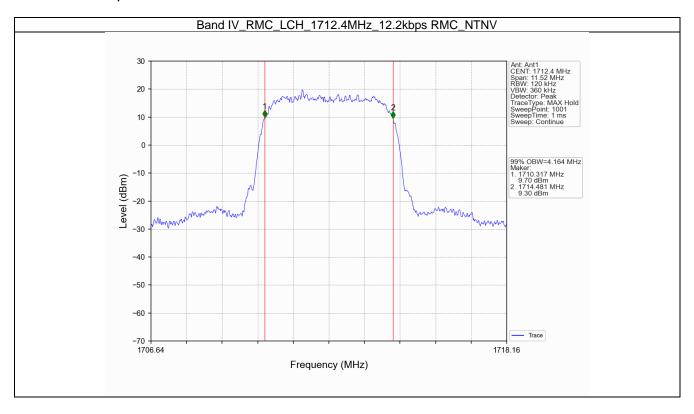




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## 3.1 Band IV\_OBW

### 3.1.2 Test Graph





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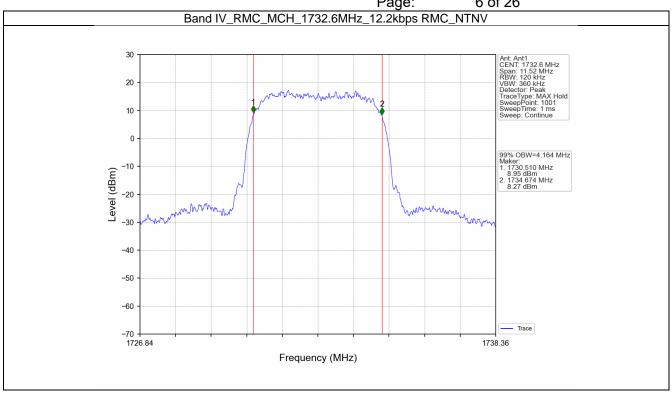
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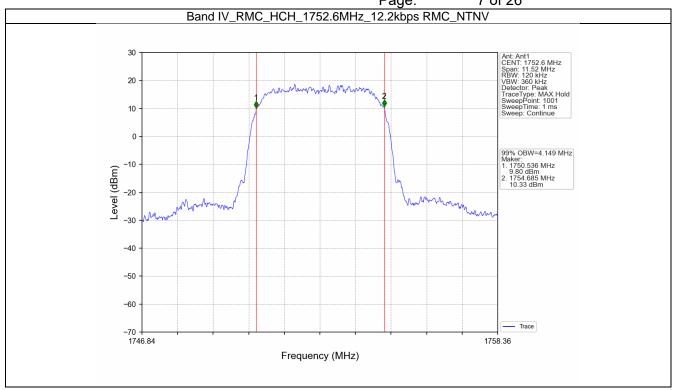
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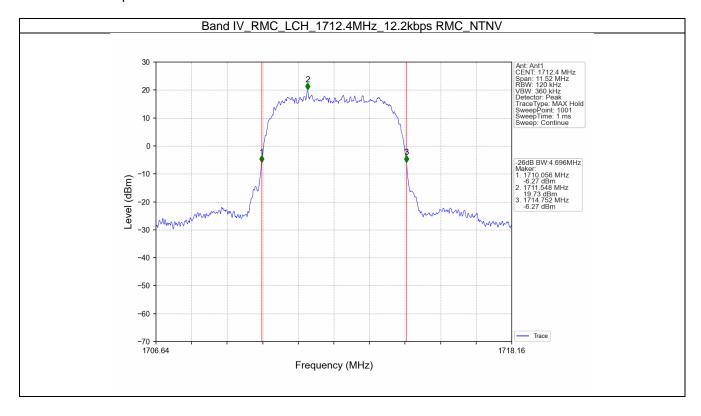




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## 3.2 Band IV\_XDB

### 3.2.2 Test Graph





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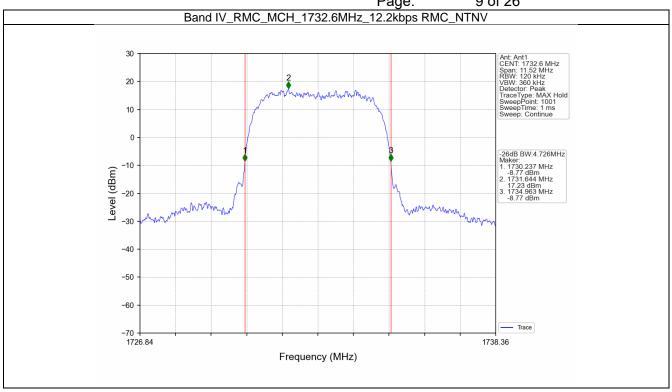
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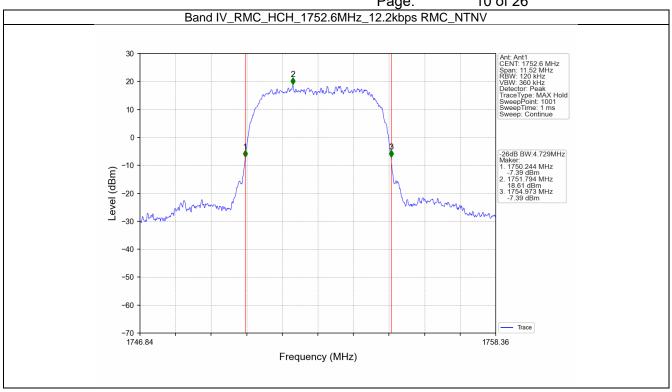
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## 4. Peak-Average Ratio

### 4.1 Band IV

#### 4.1.1 Test Result

	Band IV									
ENV		Mode	Frequency	Peak-Averag	Peak-Average Ratio (dB)					
EINV	Network	Subset	(MHz)	Result	Limit	Verdict				
			1712.4	3.15	<=13	Pass				
NTNV	RMC	12.2kbps RMC	1732.6	3.18	<=13	Pass				
			1752.6	3.08	<=13	Pass				



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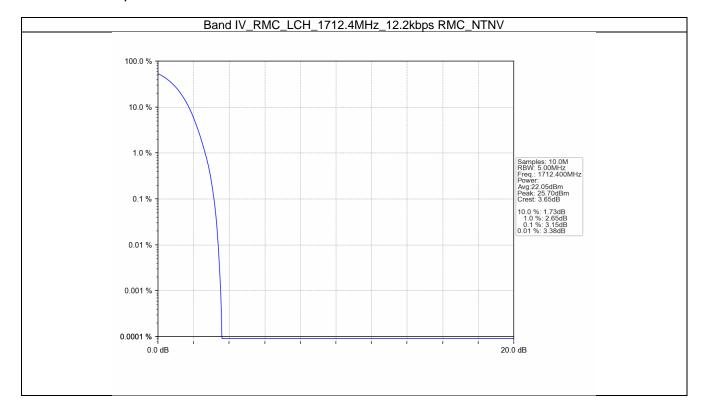


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#### 4.1 Band IV

### 4.1.2 Test Graph





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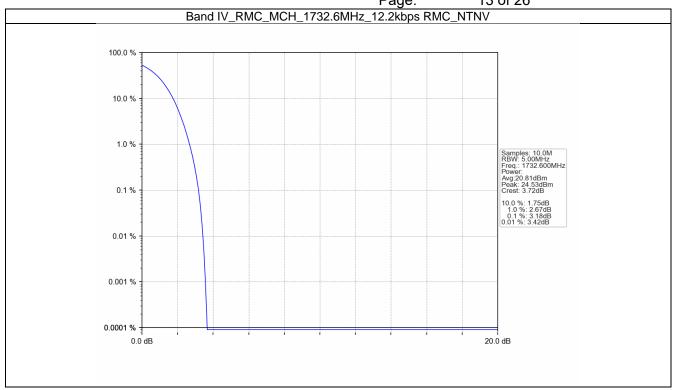
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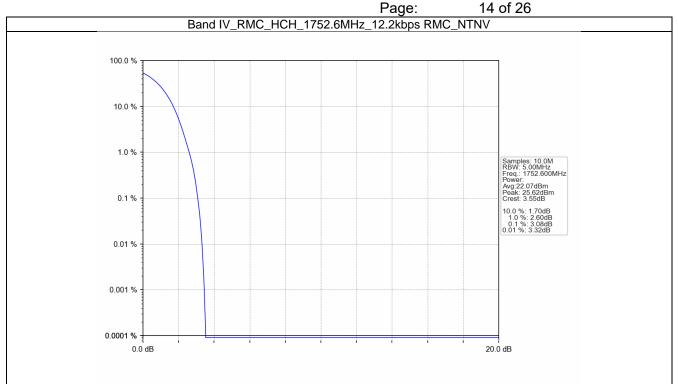
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## 5. Spurious Emission & Band Edges

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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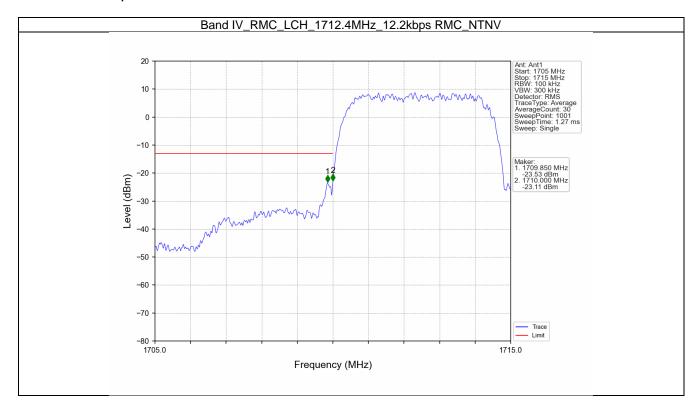


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#### 5.1 Band IV

### 5.1.2 Test Graph





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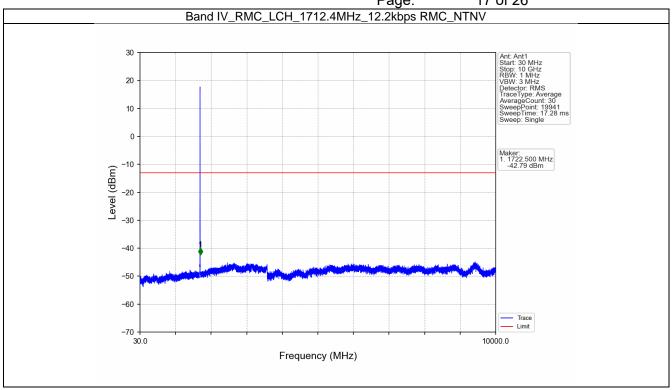
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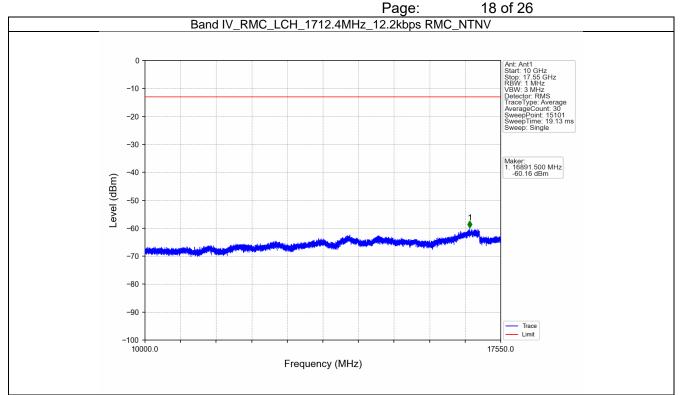
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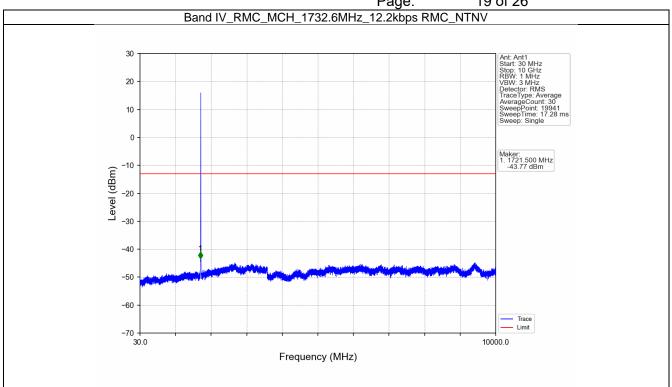
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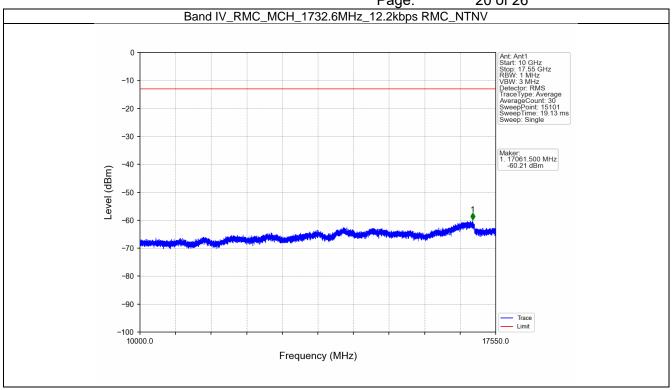
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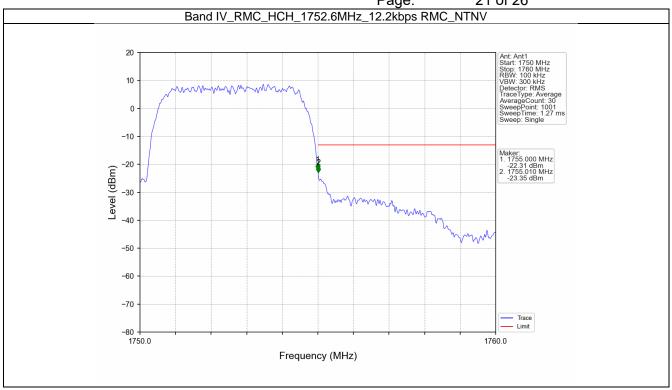
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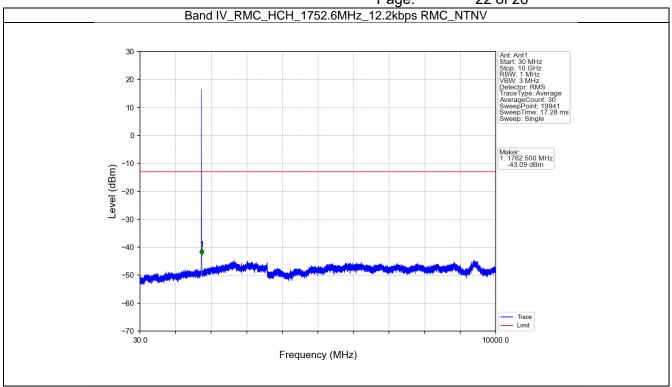
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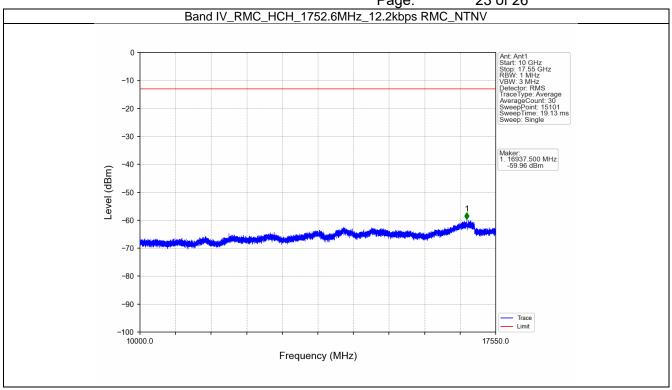
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## 6. Field Strength of Spurious Radiation

## 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	3423.0212	69.01	-50.15	29.71	-46.69	-13.00	33.69	Horizontal			
2	5133.8567	63.60	-47.09	33.57	-45.18	-13.00	32.18	Horizontal			
3	8566.0283	53.98	-42.41	38.81	-44.88	-13.00	31.88	Horizontal			
4	11877.4439	48.76	-38.17	39.59	-45.08	-13.00	32.08	Horizontal			
5	14263.3132	49.00	-39.73	40.74	-45.25	-13.00	32.25	Horizontal			
6	17920.496	49.99	-42.98	42.32	-45.93	-13.00	32.93	Horizontal			

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3423.0212	62.66	-50.15	29.71	-53.04	-13.00	40.04	Vertical				
2	5133.8567	60.08	-47.09	33.57	-48.70	-13.00	35.70	Vertical				
3	7119.206	50.82	-43.90	36.98	-51.36	-13.00	38.36	Vertical				
4	8557.0279	57.89	-42.32	38.97	-40.72	-13.00	27.72	Vertical				
5	11919.446	48.72	-38.01	39.48	-45.07	-13.00	32.07	Vertical				
6	17922.7461	50.63	-42.98	42.34	-45.27	-13.00	32.27	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	3463.5232	71.24	-49.82	29.65	-44.19	-13.00	31.19	Horizontal				
2	5193.8597	63.52	-46.49	32.46	-45.77	-13.00	32.77	Horizontal				
3	7104.2052	50.87	-43.81	36.92	-51.28	-13.00	38.28	Horizontal				
4	8991.2996	50.00	-41.72	38.75	-48.23	-13.00	35.23	Horizontal				
5	11918.6959	48.36	-38.00	39.48	-45.42	-13.00	32.42	Horizontal				
6	14237.0619	49.17	-39.77	40.76	-45.10	-13.00	32.10	Horizontal				

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3463.5232	63.91	-49.82	29.65	-51.52	-13.00	38.52	Vertical				
2	5195.3598	60.25	-46.47	32.42	-49.06	-13.00	36.06	Vertical				
3	7137.2069	51.16	-44.01	37.05	-51.06	-13.00	38.06	Vertical				
4	8658.2829	53.86	-42.50	38.27	-45.63	-13.00	32.63	Vertical				
5	11895.4448	48.07	-37.80	39.52	-45.47	-13.00	32.47	Vertical				
6	15018.6009	49.00	-38.91	39.88	-45.29	-13.00	32.29	Vertical				



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t (86-512) 62992980 www.sgsgroup.com.cn t (86-512) 62992980

sgs.china@sgs.com



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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	3503.2752	68.23	-49.08	29.82	-46.29	-13.00	33.29	Horizontal			
2	5260.613	64.16	-46.52	33.36	-44.26	-13.00	31.26	Horizontal			
3	7011.2006	52.77	-44.43	36.46	-50.46	-13.00	37.46	Horizontal			
4	9031.0516	50.01	-41.79	38.74	-48.30	-13.00	35.30	Horizontal			
5	11900.695	48.20	-37.72	39.50	-45.28	-13.00	32.28	Horizontal			
6	14235.5618	49.02	-39.77	40.76	-45.25	-13.00	32.25	Horizontal			

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3503.2752	62.44	-49.08	29.82	-52.08	-13.00	39.08	Vertical				
2	5255.3628	61.29	-46.50	33.38	-47.09	-13.00	34.09	Vertical				
3	7013.4507	52.03	-44.46	36.45	-51.24	-13.00	38.24	Vertical				
4	8758.0379	52.15	-42.23	38.32	-47.02	-13.00	34.02	Vertical				
5	11921.6961	48.37	-38.05	39.48	-45.46	-13.00	32.46	Vertical				
6	14272.3136	48.97	-39.73	40.73	-45.29	-13.00	32.29	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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