



Report No.: SUCR240400008901

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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	27.37	30	PASS
Band IV	1413	23.14	27.05	30	PASS
Band IV	1513	23.3	27.21	30	PASS



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## 2. Frequency Stability

### 2.1 Band IV

#### 2.1.1 Test Result

Band IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.135	12.816	0.0075	/	Pass
			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
		-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
	1732.6	20	3.135	-2.966	-0.0017	/	Pass
			3.7	-2.853	-0.0016	/	Pass
			4.4	-3.798	-0.0022	/	Pass
		-30	3.7	-3.166	-0.0018	/	Pass
		-20	3.7	-3.564	-0.0021	/	Pass
		-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
	1752.6	20	3.135	-12.075	-0.0069	/	Pass
			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
		-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 (MHz)	99% Occupied Bandwidth (MHz)	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1712.4	4.173	/
			1732.6	4.154	/
			1752.6	4.171	/
					Pass
					Pass
					Pass



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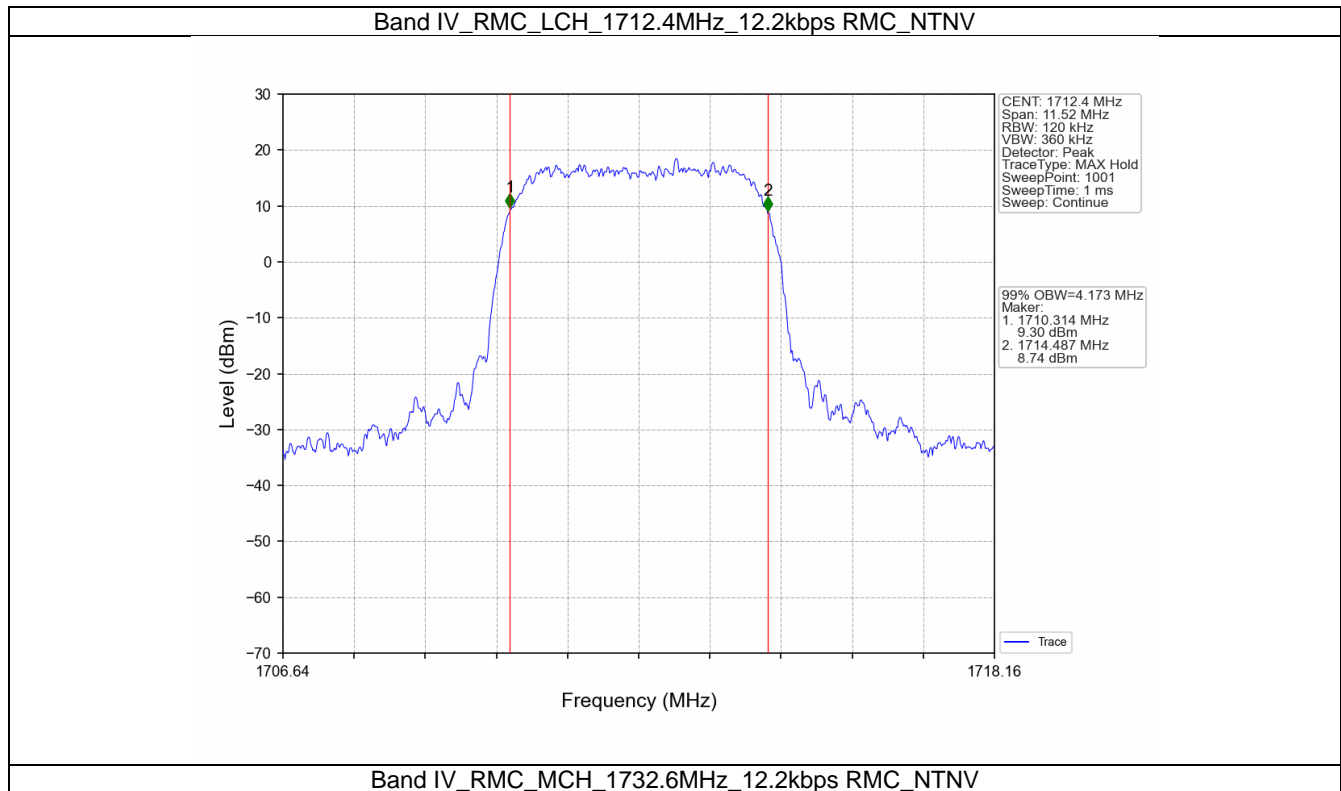
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### 3.1.2 Test Graph



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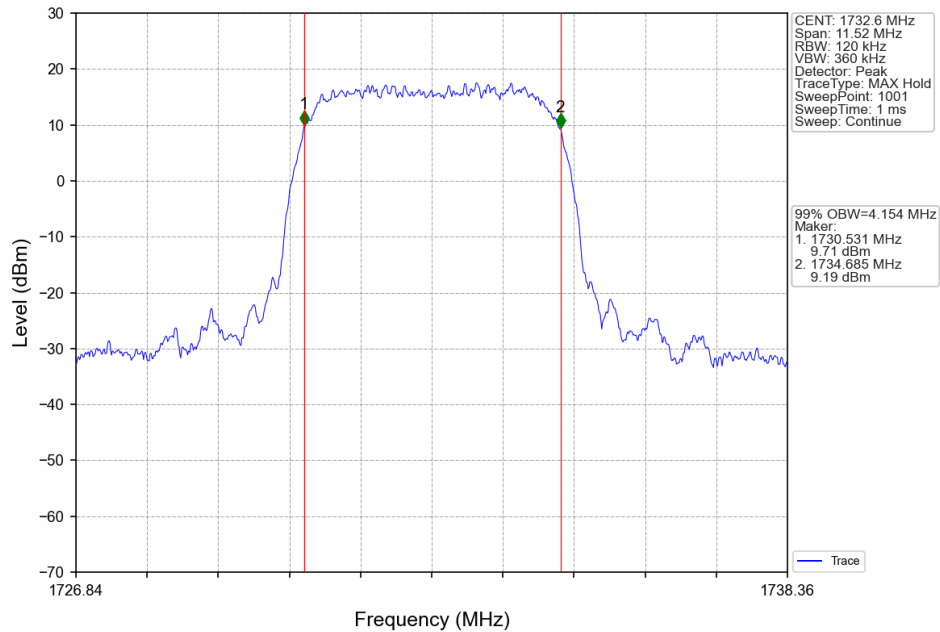
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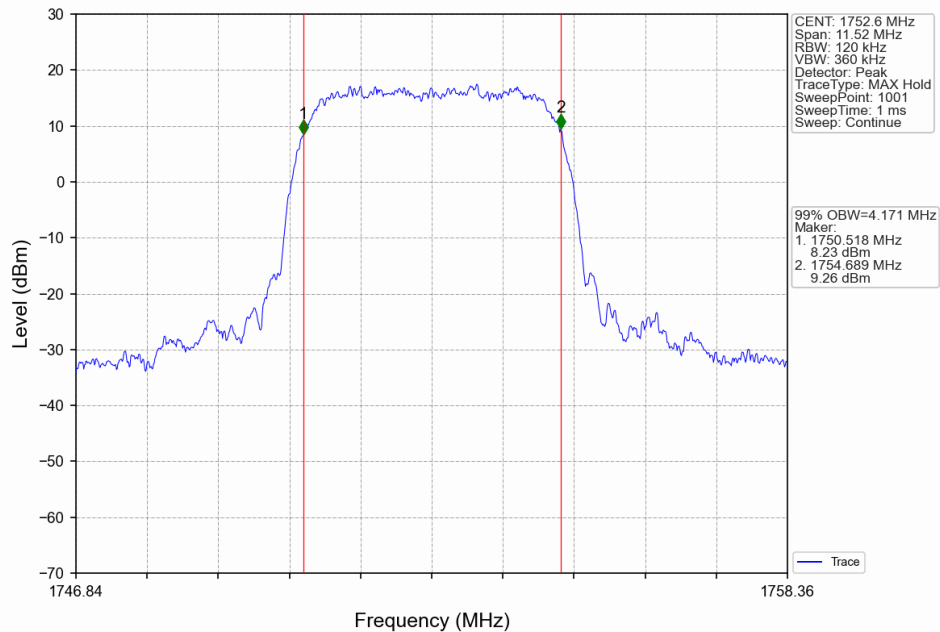


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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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## 3.2 Band IV\_XDB

### 3.2.1 Test Result

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



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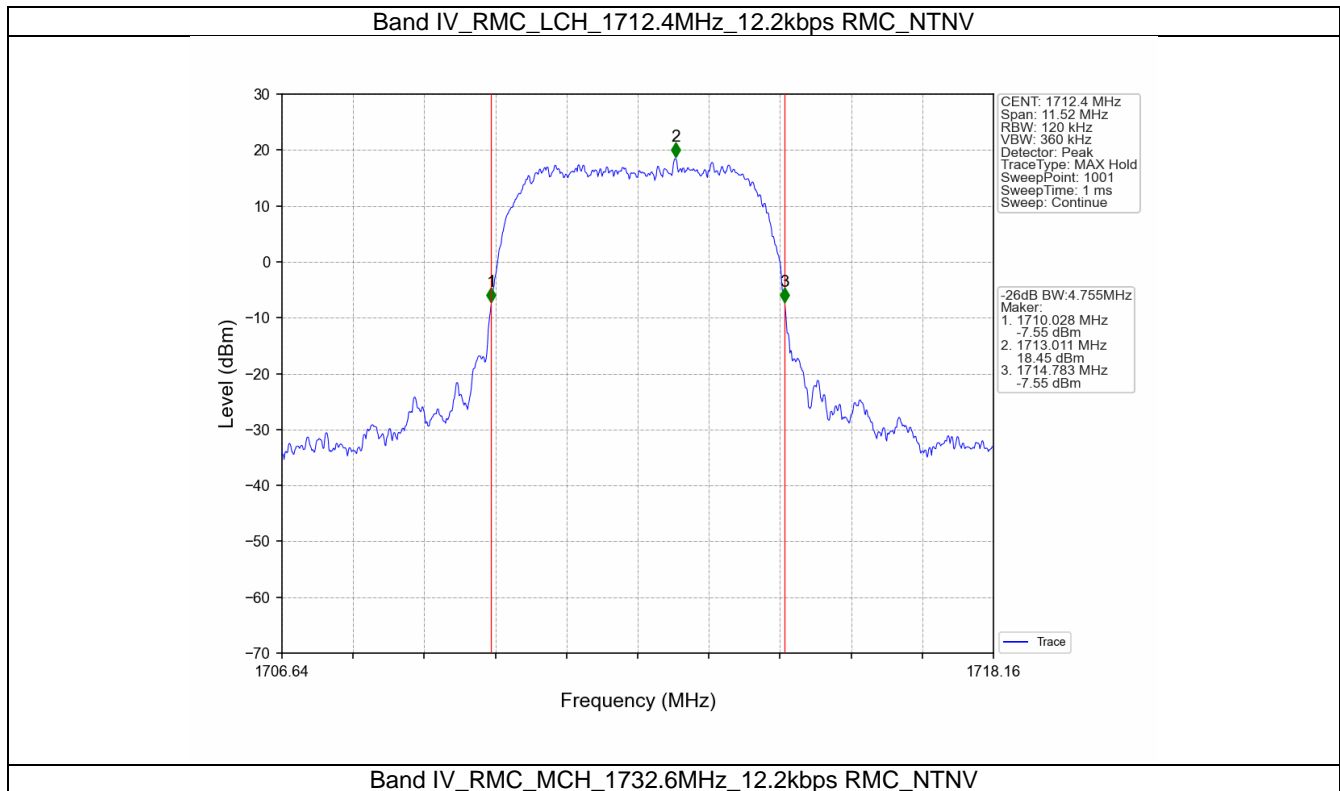


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### 3.2.2 Test Graph



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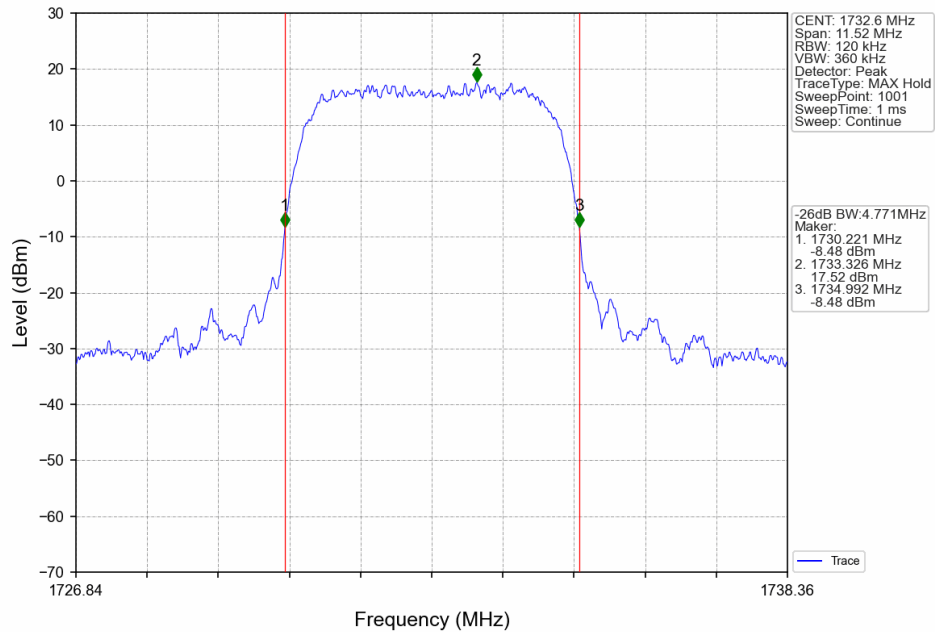
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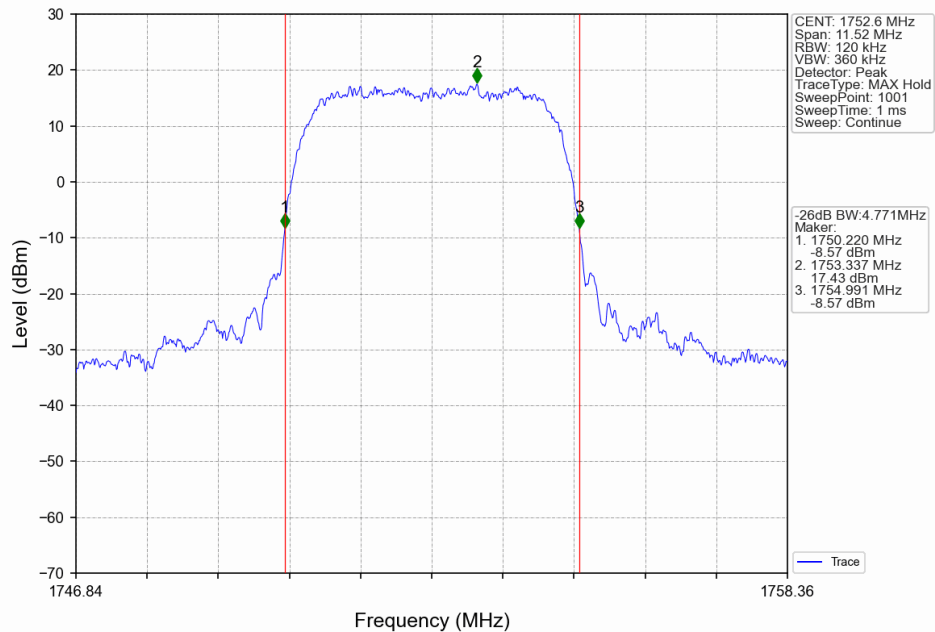
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## 4. Peak-Average Ratio

### 4.1 Band IV

#### 4.1.1 Test Result

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



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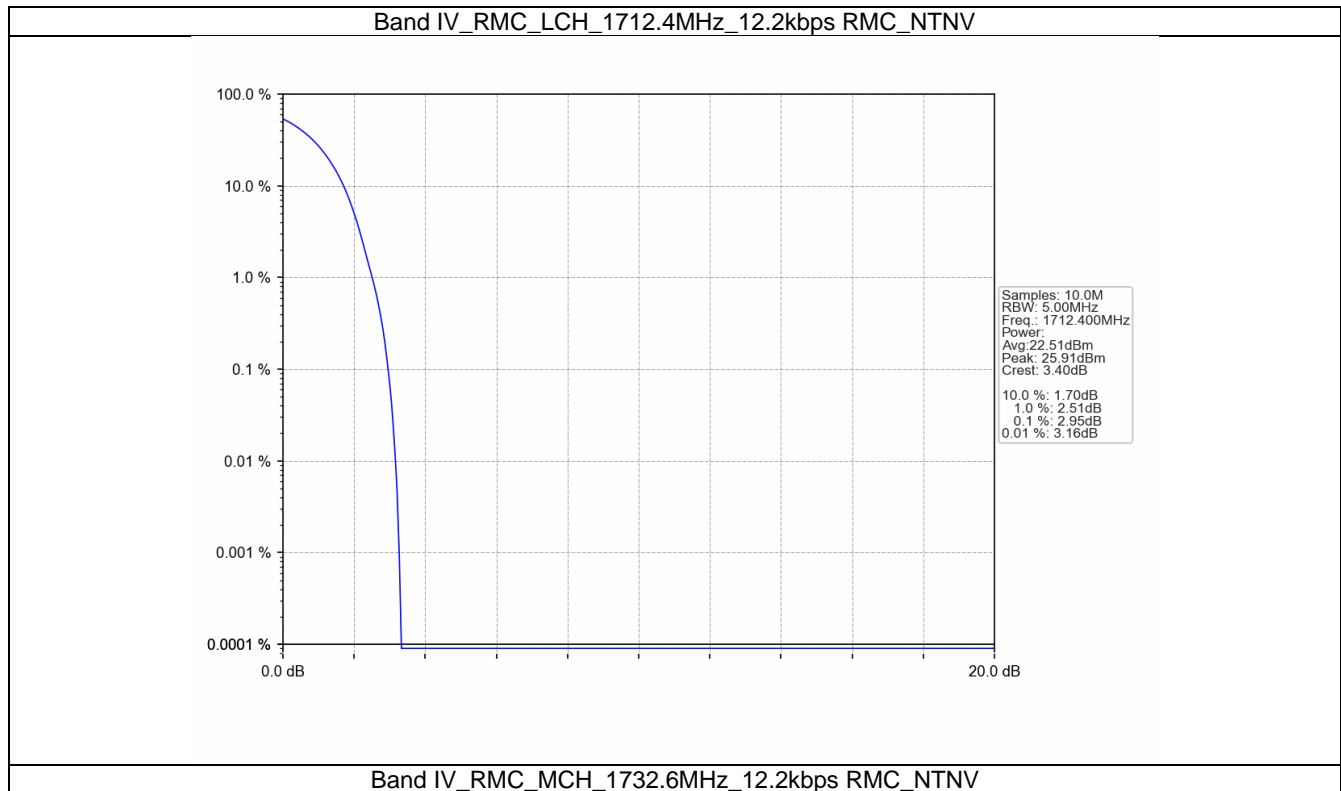
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### 4.1.2 Test Graph



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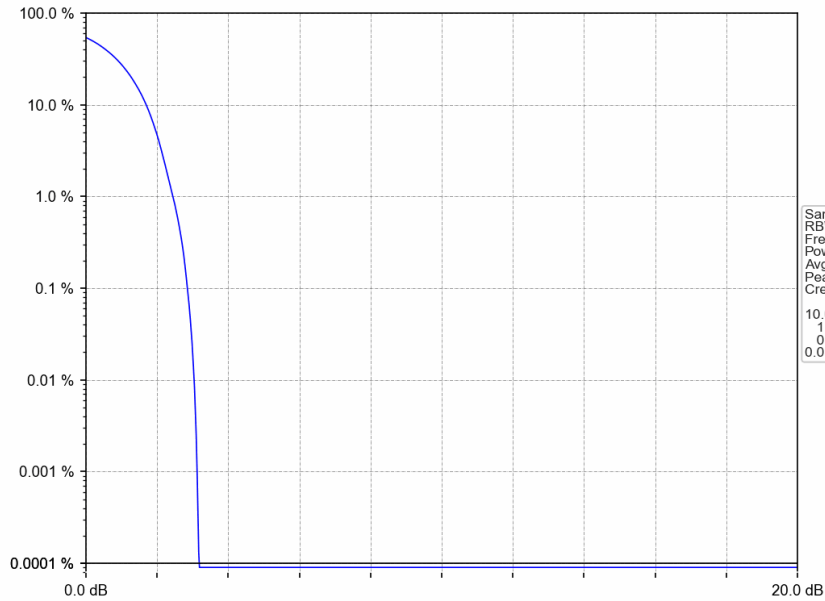
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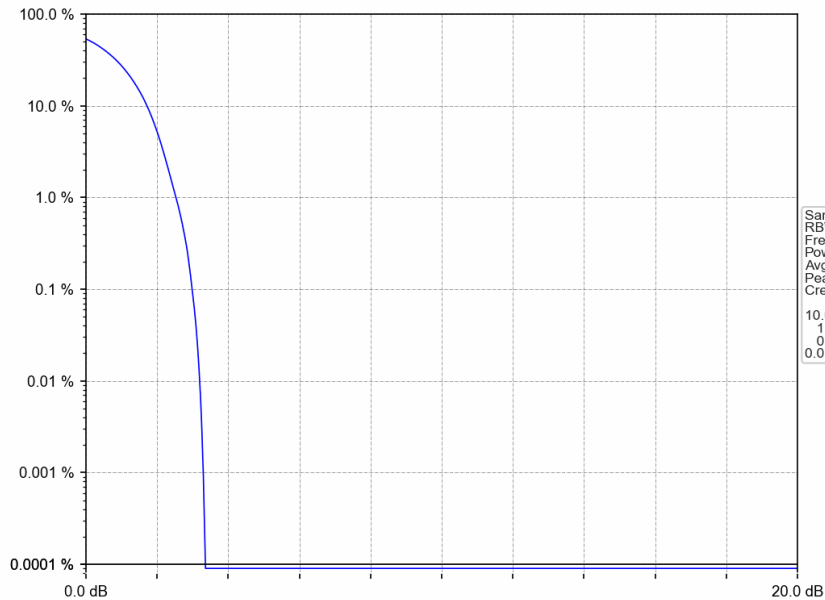


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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



Samples: 10.0M  
RBW: 5.00MHz  
Freq.: 1752.600MHz  
Power:  
Avg: 22.32dBm  
Peak: 25.71dBm  
Crest: 3.39dB  
10.0 %: 1.71dB  
1.0 %: 2.53dB  
0.1 %: 2.99dB  
0.01 %: 3.20dB



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## 5. Spurious Emission & Band Edges

### 5.1 Band IV

#### 5.1.1 Test Result

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



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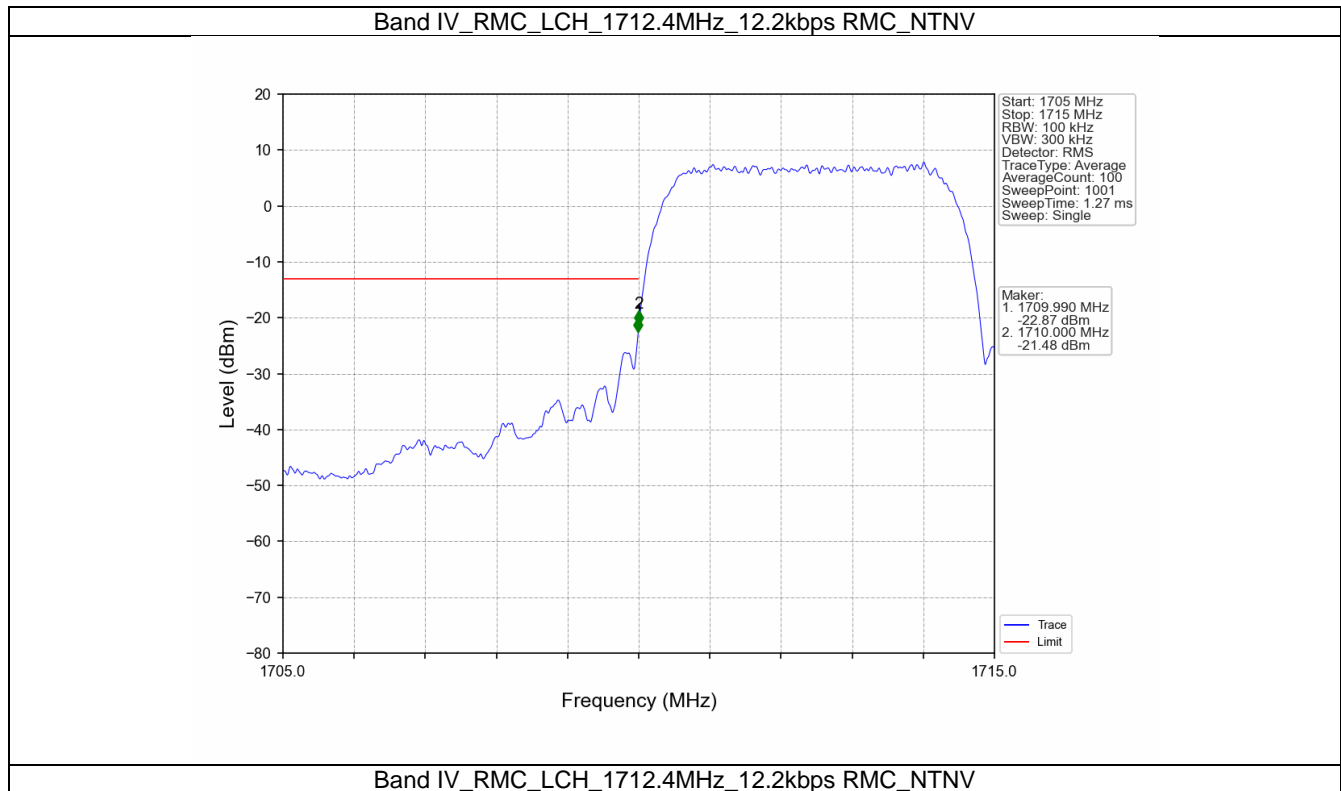
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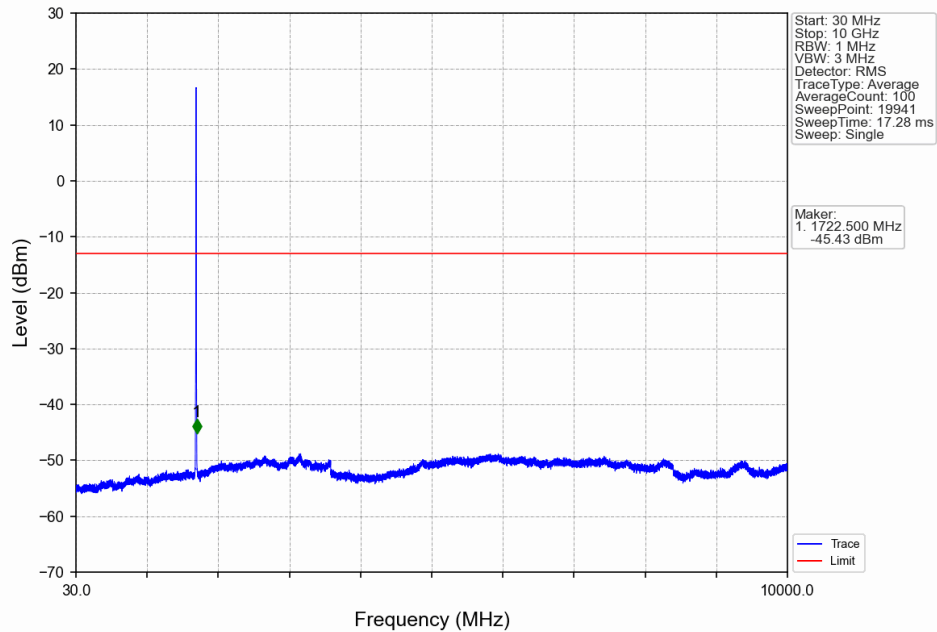
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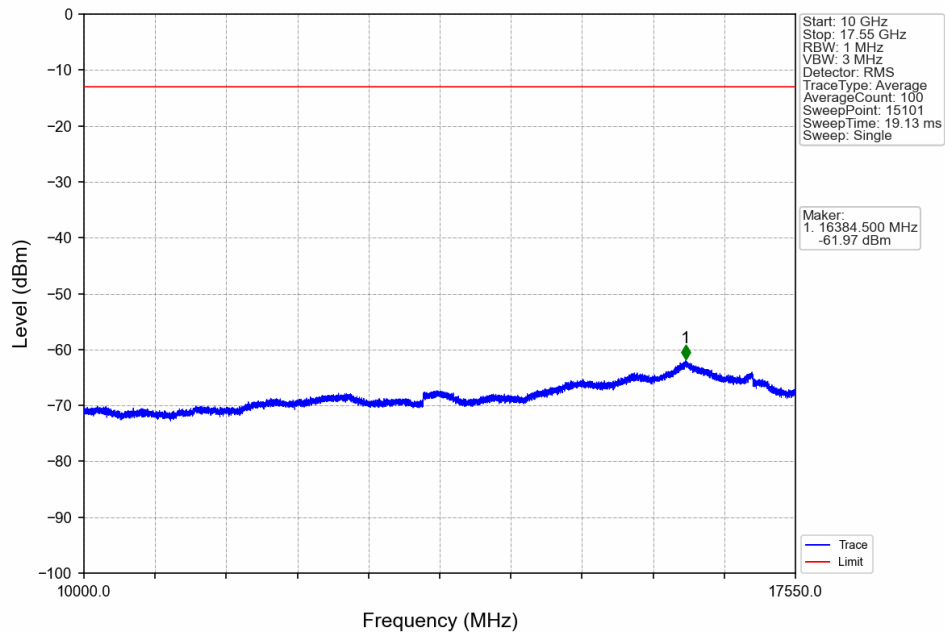
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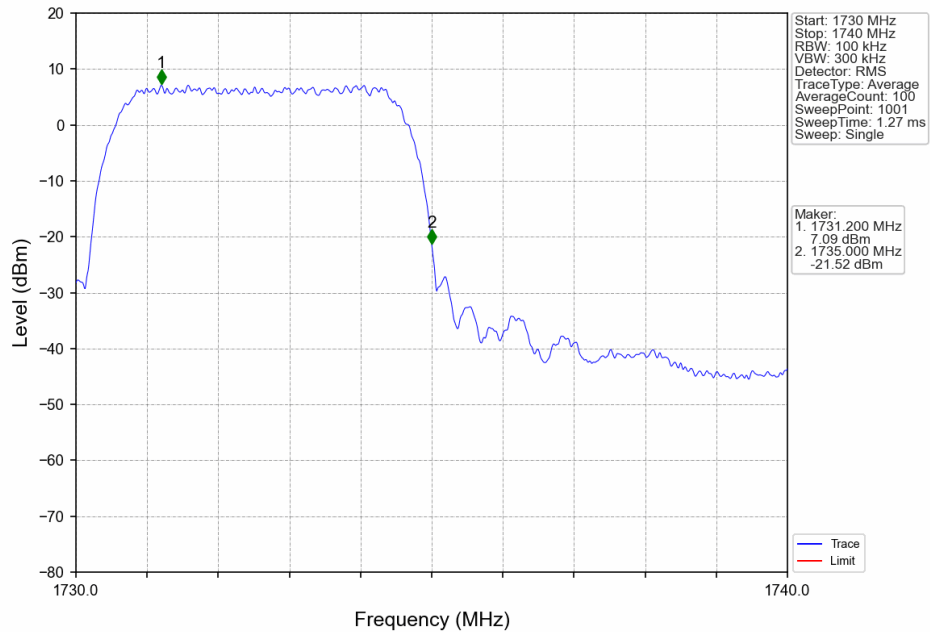
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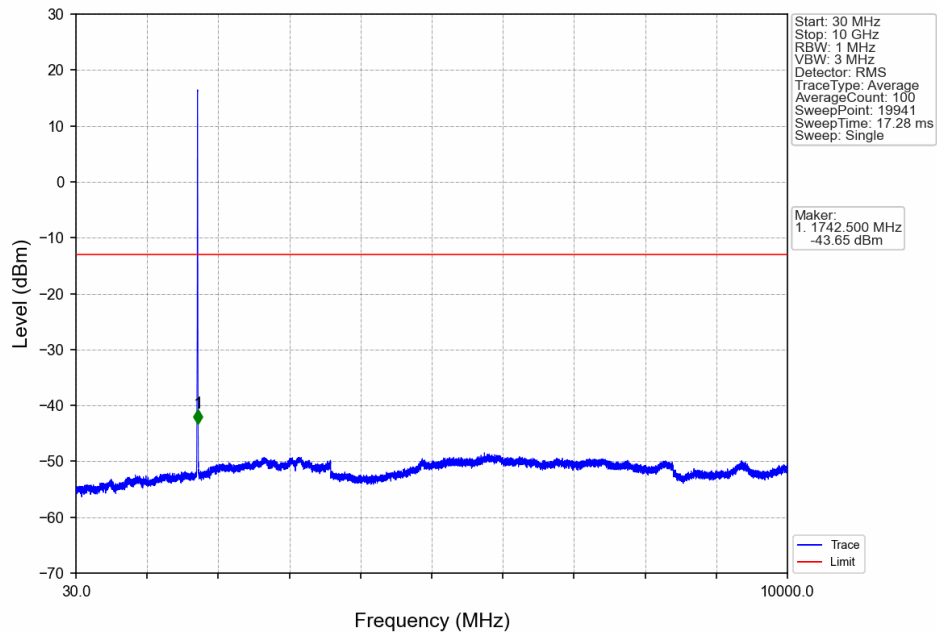


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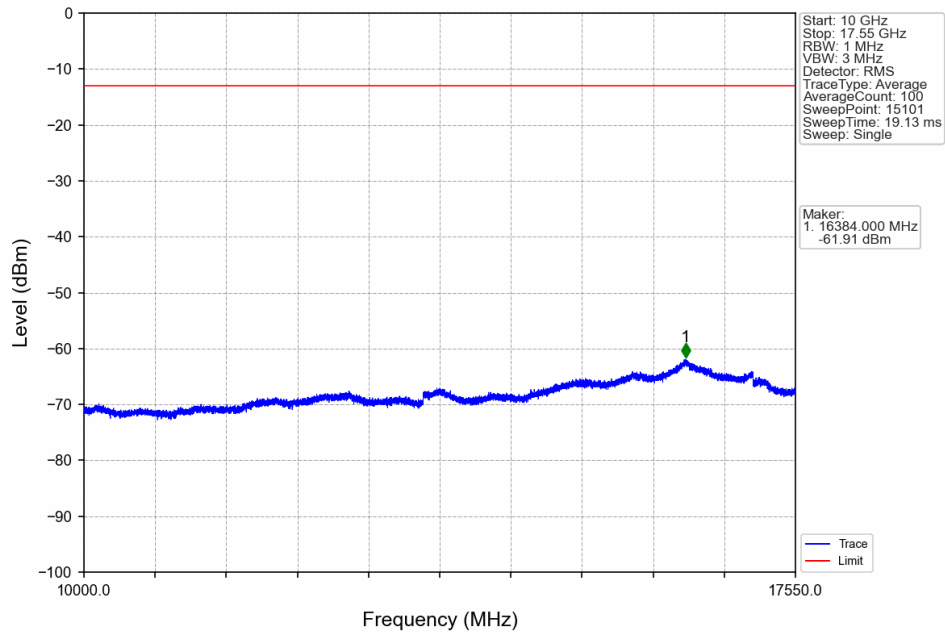
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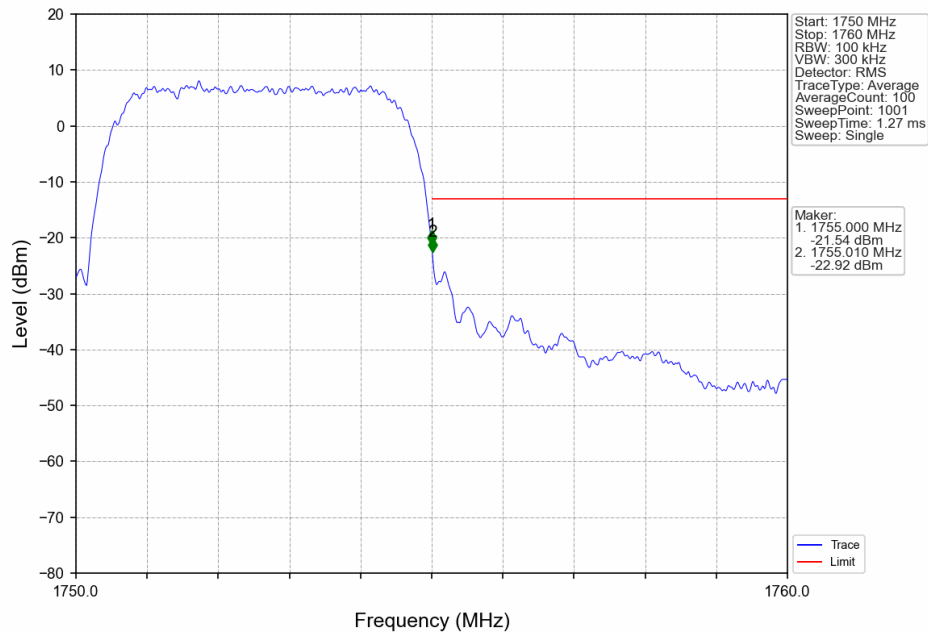
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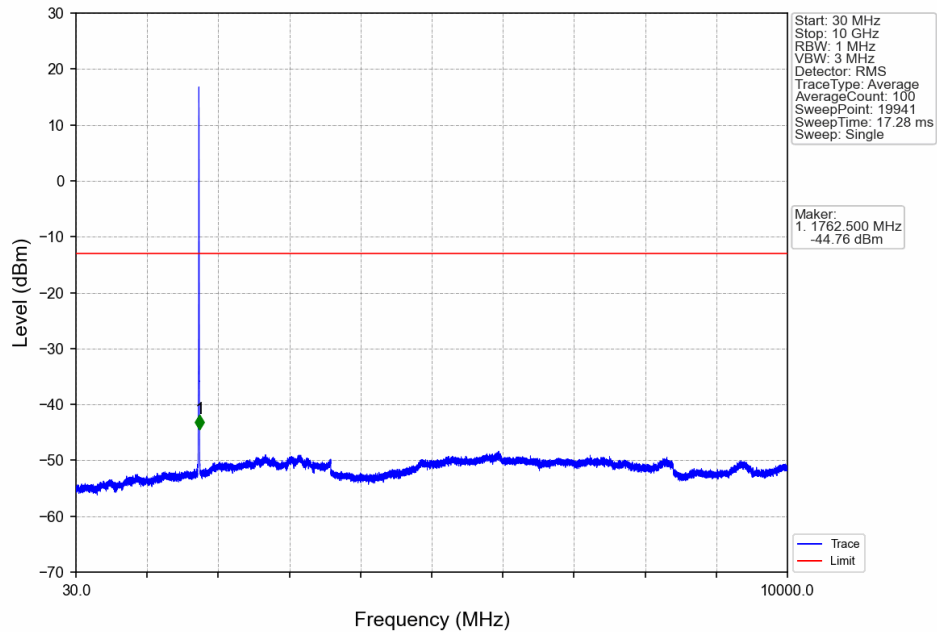
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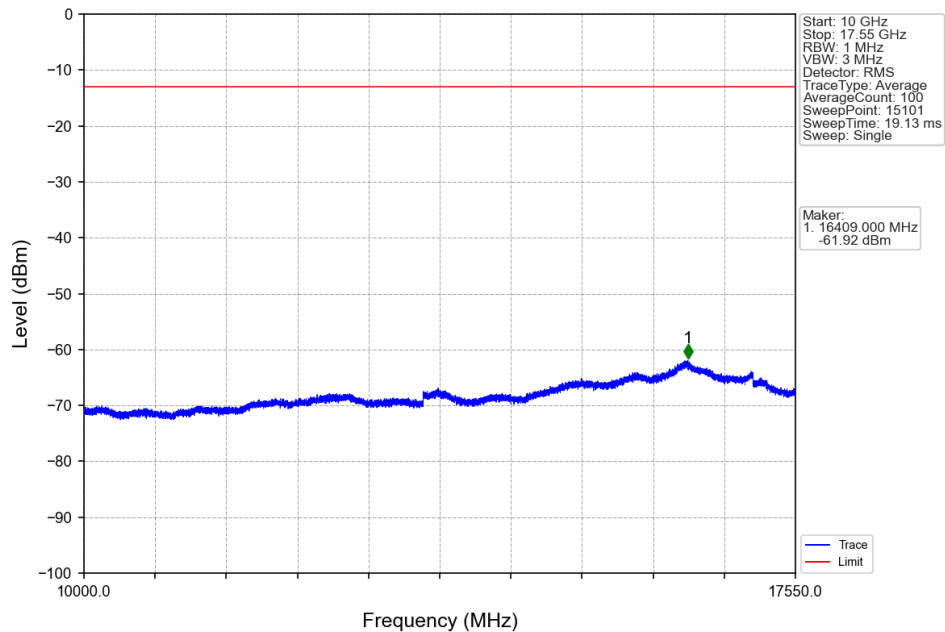
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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## 6. Field Strength of Spurious Radiation

For report SUCR240400009001:

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

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 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 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 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 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 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



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Report No.: SUCR240400008901

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For report SUCR240400008901:

Test Band = WCDMA\_Band IV\_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3501	47.73	-44.38	29.10	-62.81	-13.00	49.81	Horizontal
2	5169.5	46.04	-42.11	31.84	-59.49	-13.00	46.49	Horizontal
3	7406	43.85	-37.97	36.71	-52.67	-13.00	39.67	Horizontal
4	10745.5	42.42	-34.91	39.55	-48.20	-13.00	35.20	Horizontal
5	13857.5	42.94	-34.08	40.73	-45.67	-13.00	32.67	Horizontal
6	17989	40.13	-39.76	48.00	-46.89	-13.00	33.89	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3654.5	47.26	-44.30	29.30	-63.00	-13.00	50.00	Vertical
2	5594	45.81	-41.51	32.55	-58.41	-13.00	45.41	Vertical
3	8581.5	42.31	-36.27	36.54	-52.68	-13.00	39.68	Vertical
4	11531	43.19	-34.58	40.23	-46.42	-13.00	33.42	Vertical
5	14806	41.36	-32.53	41.56	-44.87	-13.00	31.87	Vertical
6	17988	40.26	-39.76	47.98	-46.78	-13.00	33.78	Vertical



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**Test Band = WCDMA\_ Band IV \_TM1**

**Test Channel = MCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3588	47.34	-44.36	28.92	-63.36	-13.00	50.36	Horizontal
2	5215	45.79	-41.99	31.81	-59.65	-13.00	46.65	Horizontal
3	7432.5	43.63	-37.82	36.77	-52.68	-13.00	39.68	Horizontal
4	10881.5	43.48	-34.46	40.09	-46.15	-13.00	33.15	Horizontal
5	14862.5	41.95	-32.71	41.23	-44.79	-13.00	31.79	Horizontal
6	17984.5	41.08	-39.76	47.92	-46.02	-13.00	33.02	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3464	48.09	-44.31	28.96	-62.52	-13.00	49.52	Vertical
2	5197	45.75	-42.00	31.89	-59.62	-13.00	46.62	Vertical
3	7988	42.91	-36.85	36.40	-52.80	-13.00	39.80	Vertical
4	11508.5	43.61	-34.61	40.21	-46.05	-13.00	33.05	Vertical
5	14801.5	41.35	-32.49	41.59	-44.81	-13.00	31.81	Vertical
6	16905	40.28	-31.98	40.26	-46.70	-13.00	33.70	Vertical



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Test Band = WCDMA\_ Band IV \_TM1

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3395.5	47.67	-44.32	28.60	-63.31	-13.00	50.31	Horizontal
2	5382.5	45.61	-41.82	32.40	-59.07	-13.00	46.07	Horizontal
3	7651	43.89	-37.46	36.60	-52.23	-13.00	39.23	Horizontal
4	11541	43.58	-34.56	40.24	-46.00	-13.00	33.00	Horizontal
5	14813.5	41.87	-32.59	41.52	-44.46	-13.00	31.46	Horizontal
6	17992	40.44	-39.76	48.06	-46.52	-13.00	33.52	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3507	48.35	-44.39	29.09	-62.21	-13.00	49.21	Vertical
2	5203.5	46.16	-41.99	31.88	-59.21	-13.00	46.21	Vertical
3	7435.5	43.79	-37.80	36.77	-52.50	-13.00	39.50	Vertical
4	11038	42.61	-34.18	40.14	-46.69	-13.00	33.69	Vertical
5	13294	42.86	-32.99	39.88	-45.51	-13.00	32.51	Vertical
6	16600	41.19	-30.91	39.50	-45.48	-13.00	32.48	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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