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Appendix B.5

WCDMA Band V



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band V_ERP

1.1.1 Test Result

				Band V								
ENV		Mode	Frequency	Conducted Power	Gain	ERP	(dBm)	Verdict				
LINV	Network	Subset	(MHz)	(dBm)	(dBi)	Result	Limit	verdict				
			826.4	22.72	-1.60	18.97	<=38.45	Pass				
NTNV	RMC	12.2kbps RMC	836.6	22.75	-1.60	19.00	<=38.45	Pass				
	846.6 22.64 -1.60 18.89 <=38.45 Pass											
Note1: E	Note1: ERP=Conducted Power+Antenna Gain-2.15											



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2. Frequency Stability

2.1 Band V

2.1.1 Test Result

				Band V			
Network	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. F	Rated (ppm)	Verdict
Network	(MHz)	(°C)	(VDC)	(Hz)	Result	Limit	verdici
			3.5	-1.114	-0.0013	-2.5 to 2.5	Pass
		20	3.87	-0.664	-0.0008	-2.5 to 2.5	Pass
			4.45	-1.427	-0.0017	-2.5 to 2.5	Pass
		-30	3.87	-1.213	-0.0015	-2.5 to 2.5	Pass
		-20	3.87	-2.702	-0.0033	-2.5 to 2.5	Pass
	826.4	-10	3.87	-0.087	-0.0001	-2.5 to 2.5	Pass
		0	3.87	0.200	0.0002	-2.5 to 2.5	Pass
		10	3.87	-0.568	-0.0007	-2.5 to 2.5	Pass
		30	3.87	-1.065	-0.0013	-2.5 to 2.5	Pass
		40	3.87	-1.319	-0.0016	-2.5 to 2.5	Pass
		50	3.87	-0.143	-0.0002	-2.5 to 2.5	Pass
			3.5	-0.172	-0.0002	-2.5 to 2.5	Pass
		20	3.87	-0.771	-0.0009	-2.5 to 2.5	Pass
			4.45	-0.043	-0.0001	-2.5 to 2.5	Pass
		-30	3.87	-1.016	-0.0012	-2.5 to 2.5	Pass
	836.6	-20	3.87	-1.884	-0.0023	-2.5 to 2.5	Pass
RMC		836.6	-10	3.87	-0.826	-0.0010	-2.5 to 2.5
		0	3.87	-0.704	-0.0008	-2.5 to 2.5	Pass
		10	3.87	-0.937	-0.0011	-2.5 to 2.5	Pass
		30	3.87	-1.694	-0.0020	-2.5 to 2.5	Pass
		40	3.87	-0.837	-0.0010	-2.5 to 2.5	Pass
		50	3.87	-0.341	-0.0004	-2.5 to 2.5	Pass
			3.5	1.812	0.0021	-2.5 to 2.5	Pass
		20	3.87	0.078	0.0001	-2.5 to 2.5	Pass
			4.45	-0.570	-0.0007	-2.5 to 2.5	Pass
		-30	3.87	0.778	0.0009	-2.5 to 2.5	Pass
		-20	3.87	0.004	0.0000	-2.5 to 2.5	Pass
	846.6	-10	3.87	0.577	0.0007	-2.5 to 2.5	Pass
		0	3.87	0.698	0.0008	-2.5 to 2.5	Pass
		10	3.87	0.438	0.0005	-2.5 to 2.5	Pass
		30	3.87	0.215	0.0003	-2.5 to 2.5	Pass
		40	3.87	1.498	0.0018	-2.5 to 2.5	Pass
		50	3.87	0.409	0.0005	-2.5 to 2.5	Pass



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3. 99% & 26dB Bandwidth

3.1 Band V_OBW

3.1.1 Test Result

			Band V			
ENV		Mode	Frequency	99% Occupied E	Bandwidth (MHz)	Verdict
EINV	Network	Subset	(MHz)	Result	Limit	Verdict
			826.4	4.184	/	Pass
NTNV	RMC	12.2kbps RMC	836.6	4.177	/	Pass
		·	846.6	4.177	/	Pass

3.2 Band V_XDB

3.2.1 Test Result

			Band V			
ENV	Mode		Frequency	26dB Band	width (MHz)	Verdict
EINV	Network	Subset	(MHz)	Result	Limit	verdict
			826.4	4.777	/	Pass
NTNV	RMC	12.2kbps RMC	836.6	4.758	/	Pass
			846.6	4.736	/	Pass



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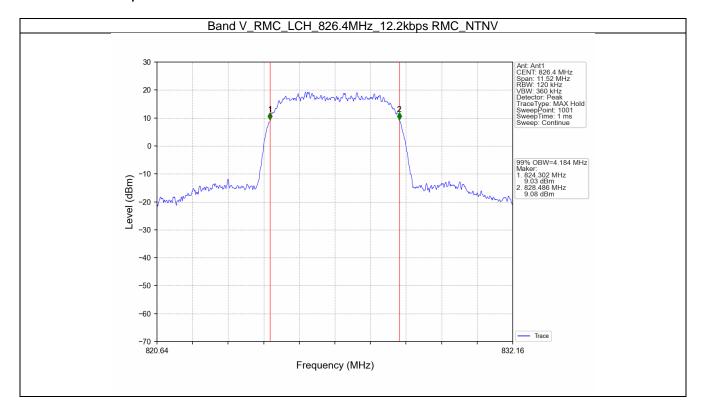




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3.1 Band V_OBW

3.1.2 Test Graph





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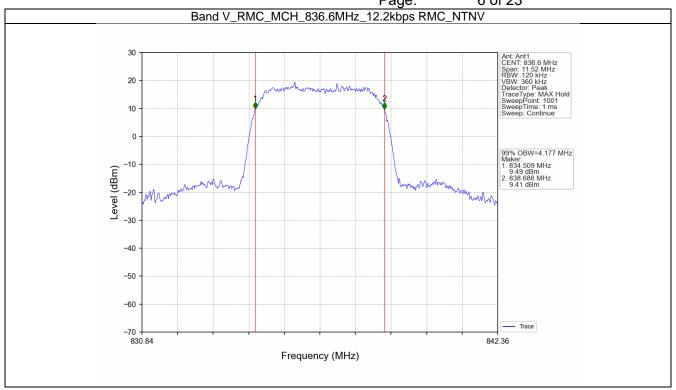
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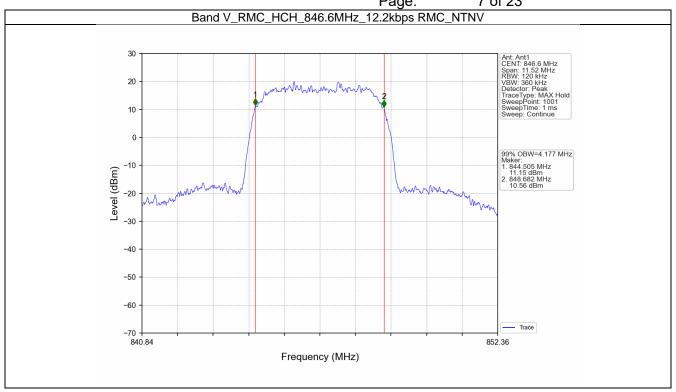
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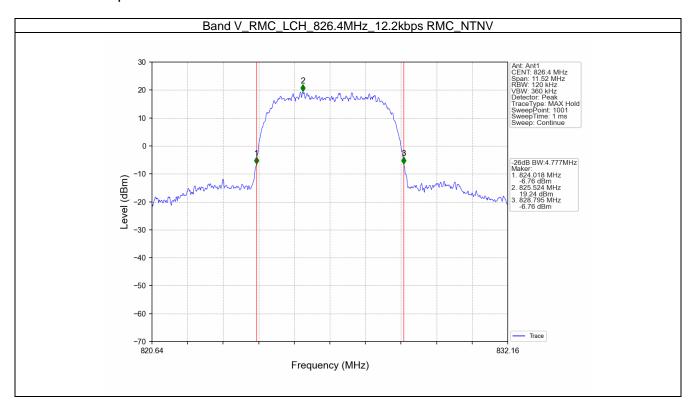




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3.2 Band V_XDB

3.2.2 Test Graph





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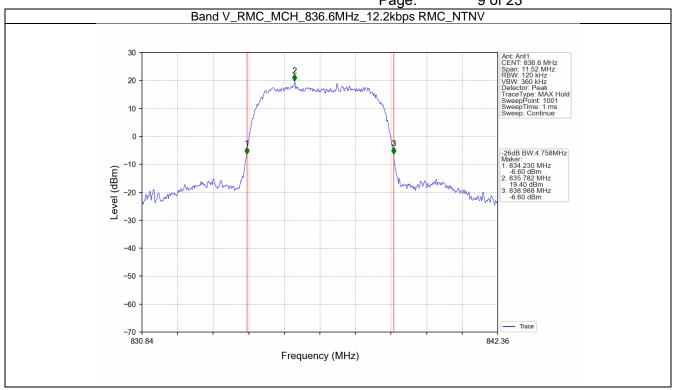
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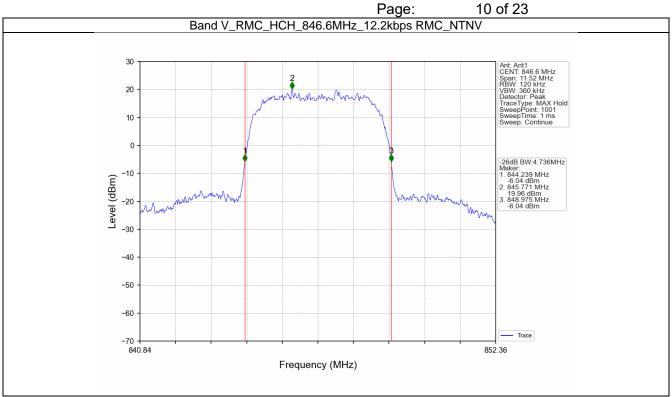
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4. Peak-Average Ratio

4.1 Band V

4.1.1 Test Result

			Band V			
ENV		Mode	Frequency	Peak-Averag	ge Ratio (dB)	Verdict
EINV	Network	Subset	(MHz)	Result	Limit	verdict
			826.4	2.31	<=13	Pass
NTNV	RMC	12.2kbps RMC	836.6	2.46	<=13	Pass
			846.6	2.54	<=13	Pass



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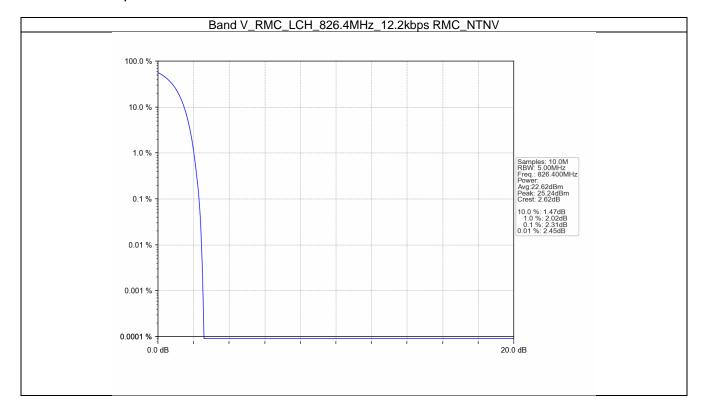


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4.1 Band V

4.1.2 Test Graph





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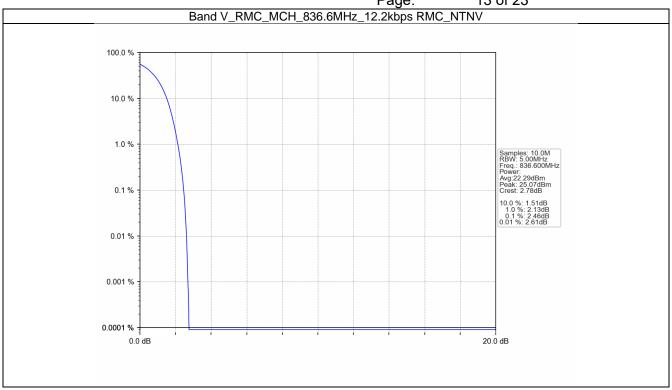
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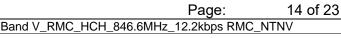
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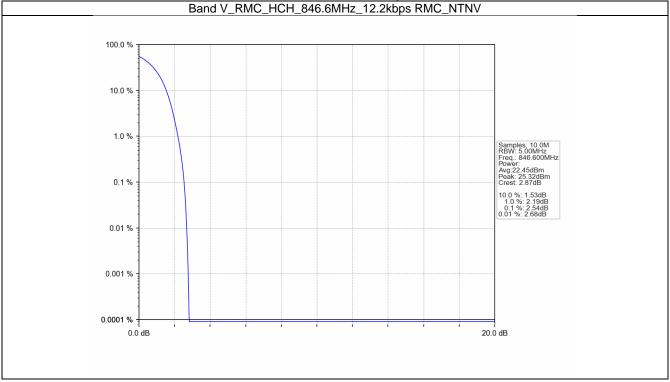
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5. Spurious Emission & Band Edges

5.1 Band V

5.1.1 Test Result

			Band V			
ENV		Mode	Frequency	Spurious Emi	ssion	Verdict
EINV	Network	Subset	(MHz)	Result	Limit	verdict
			826.4	Refer To Test	Graph	Pass
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test	Graph	Pass
			846.6	Refer To Test	Graph	Pass



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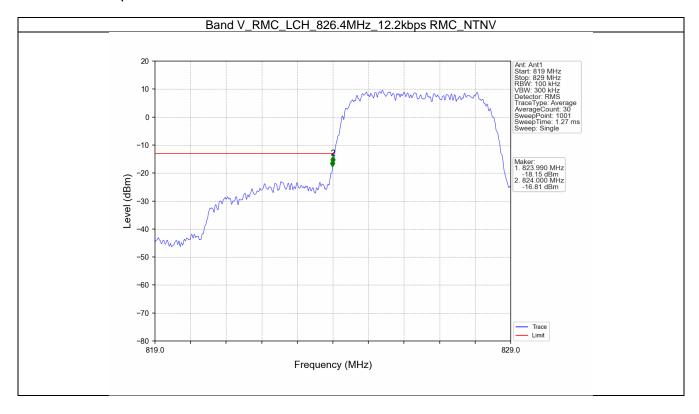


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5.1 Band V

5.1.2 Test Graph





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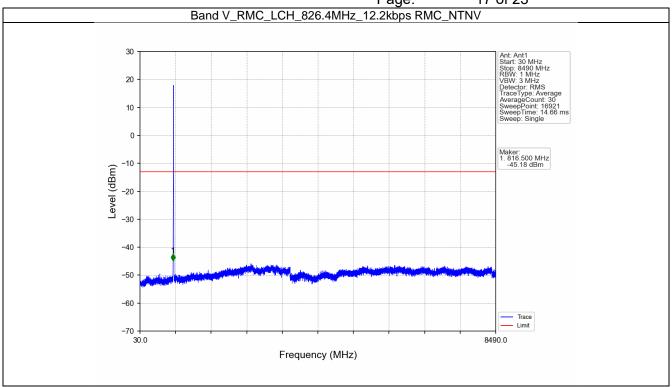
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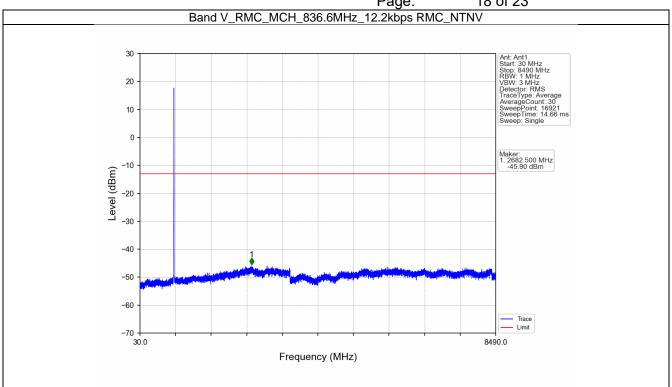
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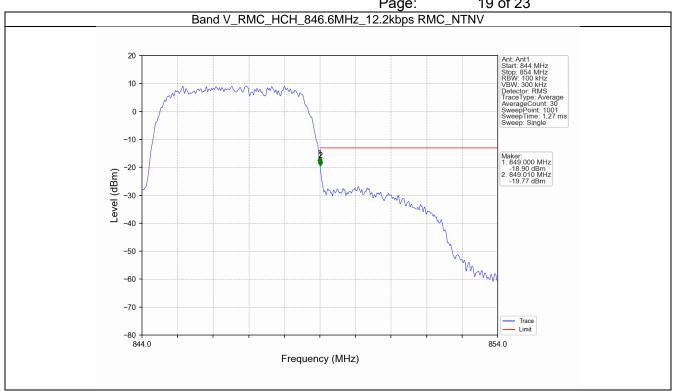
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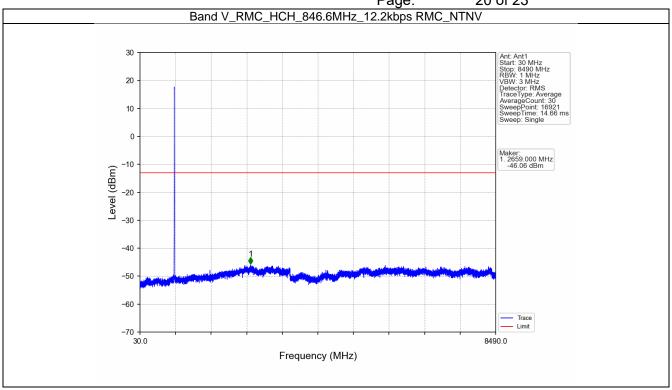
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6. Field Strength of Spurious Radiation

Test Band = WCDMA_ Band V
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	1651	61.24	-52.87	25.90	-60.99	-13.00	47.99	Horizontal				
2	2476	86.07	-51.24	27.95	-32.48	-13.00	19.48	Horizontal				
3	4130.5	64.76	-47.57	30.94	-47.13	-13.00	34.13	Horizontal				
4	5109.5	51.56	-44.09	33.52	-54.27	-13.00	41.27	Horizontal				
5	7513	50.74	-42.45	36.65	-50.32	-13.00	37.32	Horizontal				
6	9554.5	49.36	-39.81	39.11	-46.60	-13.00	33.60	Horizontal				

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	1651	57.19	-52.87	25.90	-65.04	-13.00	52.04	Vertical				
2	2476.5	81.89	-51.24	27.95	-36.66	-13.00	23.66	Vertical				
3	4126	58.50	-47.66	30.91	-53.51	-13.00	40.51	Vertical				
4	5106.5	51.79	-44.08	33.51	-54.04	-13.00	41.04	Vertical				
5	8048	50.15	-41.64	37.59	-49.16	-13.00	36.16	Vertical				
6	9537.5	49.47	-39.94	39.13	-46.60	-13.00	33.60	Vertical				



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Test Band = WCDMA_ Band V **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	1674	58.82	-52.76	25.85	-63.35	-13.00	50.35	Horizontal				
2	2506.5	78.56	-51.16	28.04	-39.82	-13.00	26.82	Horizontal				
3	4180	57.25	-47.31	31.34	-53.98	-13.00	40.98	Horizontal				
4	5131.5	52.04	-44.22	33.56	-53.88	-13.00	40.88	Horizontal				
5	7580	50.73	-42.06	36.74	-49.85	-13.00	36.85	Horizontal				
6	9510.5	49.77	-40.10	39.18	-46.41	-13.00	33.41	Horizontal				

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	1674.5	56.98	-52.76	25.85	-65.19	-13.00	52.19	Vertical				
2	2512	76.90	-51.13	28.07	-41.42	-13.00	28.42	Vertical				
3	4181	53.79	-47.32	31.35	-57.44	-13.00	44.44	Vertical				
4	5150.5	51.86	-44.32	33.59	-54.13	-13.00	41.13	Vertical				
5	7898.5	50.44	-42.18	37.39	-49.61	-13.00	36.61	Vertical				
6	9482	49.81	-40.15	39.13	-46.47	-13.00	33.47	Vertical				



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Test Band = WCDMA_ Band V 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	1691	58.55	-52.69	25.82	-63.58	-13.00	50.58	Horizontal				
2	2536.5	74.23	-50.98	28.22	-43.79	-13.00	30.79	Horizontal				
3	4234.5	55.94	-47.31	31.91	-54.72	-13.00	41.72	Horizontal				
4	5113	51.52	-44.11	33.53	-54.32	-13.00	41.32	Horizontal				
5	8062	49.59	-41.72	37.58	-49.81	-13.00	36.81	Horizontal				
6	9563.5	49.31	-39.72	39.13	-46.54	-13.00	33.54	Horizontal				

Final Da	Final Data List											
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	1695	56.55	-52.67	25.81	-65.57	-13.00	52.57	Vertical				
2	2542.5	73.55	-50.95	28.26	-44.40	-13.00	31.40	Vertical				
3	3295	53.21	-49.74	30.69	-61.10	-13.00	48.10	Vertical				
4	5165.5	51.99	-44.30	33.20	-54.37	-13.00	41.37	Vertical				
5	7096	50.40	-43.30	36.85	-51.31	-13.00	38.31	Vertical				
6	9506.5	49.48	-40.12	39.19	-46.71	-13.00	33.71	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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