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Appendix B.5

WCDMA Band V



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band V_ERP

1.1.1 Test Result

ENV	Band: 5							Verdict			
	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)					
	Network	Subset				Result	Limit				
NTNV	RMC	12.2kbps RMC	826.4	24.84	-4.10	18.59	<=38.45	Pass			
			836.6	24.77	-4.10	18.52	<=38.45	Pass			
			846.6	25.07	-4.10	18.82	<=38.45	Pass			
	HSDPA		Subtest 1	826.4	23.12	-4.10	16.87	<=38.45	Pass		
			Subtest 2	826.4	23.11	-4.10	16.86	<=38.45	Pass		
			Subtest 3	826.4	23.09	-4.10	16.84	<=38.45	Pass		
			Subtest 4	826.4	23.03	-4.10	16.78	<=38.45	Pass		
			Subtest 1	836.6	23.30	-4.10	17.05	<=38.45	Pass		
			Subtest 2	836.6	23.28	-4.10	17.03	<=38.45	Pass		
			Subtest 3	836.6	23.30	-4.10	17.05	<=38.45	Pass		
			Subtest 4	836.6	23.30	-4.10	17.05	<=38.45	Pass		
			Subtest 1	846.6	23.24	-4.10	16.99	<=38.45	Pass		
			Subtest 2	846.6	23.26	-4.10	17.01	<=38.45	Pass		
			Subtest 3	846.6	23.25	-4.10	17.00	<=38.45	Pass		
			Subtest 4	846.6	23.25	-4.10	17.00	<=38.45	Pass		
			HSUPA		Subtest 1	826.4	20.34	-4.10	14.09	<=38.45	Pass
					Subtest 2	826.4	20.68	-4.10	14.43	<=38.45	Pass
					Subtest 3	826.4	21.10	-4.10	14.85	<=38.45	Pass
	Subtest 4	826.4			20.42	-4.10	14.17	<=38.45	Pass		
	Subtest 5	826.4			20.83	-4.10	14.58	<=38.45	Pass		
	Subtest 1	836.6			21.28	-4.10	15.03	<=38.45	Pass		
	Subtest 2	836.6			20.84	-4.10	14.59	<=38.45	Pass		
	Subtest 3	836.6			20.36	-4.10	14.11	<=38.45	Pass		
	Subtest 4	836.6			20.97	-4.10	14.72	<=38.45	Pass		
	Subtest 5	836.6			20.48	-4.10	14.23	<=38.45	Pass		
	Subtest 1	846.6			20.43	-4.10	14.18	<=38.45	Pass		
	Subtest 2	846.6			20.36	-4.10	14.11	<=38.45	Pass		
	Subtest 3	846.6	21.15	-4.10	14.90	<=38.45	Pass				
	Subtest 4	846.6	20.55	-4.10	14.30	<=38.45	Pass				
	Subtest 5	846.6	21.02	-4.10	14.77	<=38.45	Pass				

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: 5								
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
					Result	Limit		
RMC	826.4	20	3.6	-2.332	-0.0028	-2.5 to 2.5	Pass	
			3.84	-2.575	-0.0031	-2.5 to 2.5	Pass	
			4.25	-2.854	-0.0035	-2.5 to 2.5	Pass	
		-30	3.84	-2.875	-0.0035	-2.5 to 2.5	Pass	
		-20	3.84	-3.726	-0.0045	-2.5 to 2.5	Pass	
		-10	3.84	-3.769	-0.0046	-2.5 to 2.5	Pass	
		0	3.84	-3.827	-0.0046	-2.5 to 2.5	Pass	
		10	3.84	-3.626	-0.0044	-2.5 to 2.5	Pass	
		30	3.84	-3.762	-0.0046	-2.5 to 2.5	Pass	
		40	3.84	-3.748	-0.0045	-2.5 to 2.5	Pass	
	50	3.84	-4.241	-0.0051	-2.5 to 2.5	Pass		
	836.6	20	3.6	-2.618	-0.0031	-2.5 to 2.5	Pass	
			3.84	-2.704	-0.0032	-2.5 to 2.5	Pass	
			4.25	-2.782	-0.0033	-2.5 to 2.5	Pass	
		-30	3.84	-2.768	-0.0033	-2.5 to 2.5	Pass	
		-20	3.84	-2.646	-0.0032	-2.5 to 2.5	Pass	
		-10	3.84	-2.203	-0.0026	-2.5 to 2.5	Pass	
		0	3.84	-2.611	-0.0031	-2.5 to 2.5	Pass	
		10	3.84	-2.232	-0.0027	-2.5 to 2.5	Pass	
		30	3.84	-1.659	-0.0020	-2.5 to 2.5	Pass	
		40	3.84	-2.267	-0.0027	-2.5 to 2.5	Pass	
	50	3.84	-2.232	-0.0027	-2.5 to 2.5	Pass		
	846.6	20	3.6	-0.587	-0.0007	-2.5 to 2.5	Pass	
			3.84	-0.443	-0.0005	-2.5 to 2.5	Pass	
			4.25	-1.502	-0.0018	-2.5 to 2.5	Pass	
		-30	3.84	-1.624	-0.0019	-2.5 to 2.5	Pass	
		-20	3.84	-0.994	-0.0012	-2.5 to 2.5	Pass	
		-10	3.84	-0.937	-0.0011	-2.5 to 2.5	Pass	
		0	3.84	-0.887	-0.0010	-2.5 to 2.5	Pass	
		10	3.84	-0.751	-0.0009	-2.5 to 2.5	Pass	
		30	3.84	-1.101	-0.0013	-2.5 to 2.5	Pass	
		40	3.84	-0.401	-0.0005	-2.5 to 2.5	Pass	
	50	3.84	-1.738	-0.0021	-2.5 to 2.5	Pass		
	HSDPA	826.4	20	3.6	-0.637	-0.0008	-2.5 to 2.5	Pass
				3.84	-1.881	-0.0023	-2.5 to 2.5	Pass
				4.25	-2.575	-0.0031	-2.5 to 2.5	Pass
			-30	3.84	-1.674	-0.0020	-2.5 to 2.5	Pass
			-20	3.84	-0.880	-0.0011	-2.5 to 2.5	Pass
			-10	3.84	-1.187	-0.0014	-2.5 to 2.5	Pass



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HSUPA	836.6	0	3.84	-0.787	-0.0010	-2.5 to 2.5	Pass	
		10	3.84	0.193	0.0002	-2.5 to 2.5	Pass	
		30	3.84	-1.416	-0.0017	-2.5 to 2.5	Pass	
		40	3.84	-1.566	-0.0019	-2.5 to 2.5	Pass	
		50	3.84	-0.515	-0.0006	-2.5 to 2.5	Pass	
	836.6	20	3.6	-1.781	-0.0021	-2.5 to 2.5	Pass	
			3.84	-0.401	-0.0005	-2.5 to 2.5	Pass	
			4.25	0.165	0.0002	-2.5 to 2.5	Pass	
		-30	3.84	0.143	0.0002	-2.5 to 2.5	Pass	
		-20	3.84	0.966	0.0012	-2.5 to 2.5	Pass	
		-10	3.84	-0.587	-0.0007	-2.5 to 2.5	Pass	
		0	3.84	0.107	0.0001	-2.5 to 2.5	Pass	
		10	3.84	0.966	0.0012	-2.5 to 2.5	Pass	
		30	3.84	-1.252	-0.0015	-2.5 to 2.5	Pass	
		40	3.84	-0.708	-0.0008	-2.5 to 2.5	Pass	
		50	3.84	-0.536	-0.0006	-2.5 to 2.5	Pass	
		846.6	20	3.6	-1.395	-0.0016	-2.5 to 2.5	Pass
				3.84	-0.143	-0.0002	-2.5 to 2.5	Pass
				4.25	-0.780	-0.0009	-2.5 to 2.5	Pass
			-30	3.84	-0.350	-0.0004	-2.5 to 2.5	Pass
	-20		3.84	0.544	0.0006	-2.5 to 2.5	Pass	
	-10		3.84	-0.830	-0.0010	-2.5 to 2.5	Pass	
	0		3.84	-0.644	-0.0008	-2.5 to 2.5	Pass	
	10		3.84	-1.302	-0.0015	-2.5 to 2.5	Pass	
	30		3.84	-1.631	-0.0019	-2.5 to 2.5	Pass	
	40		3.84	0.465	0.0005	-2.5 to 2.5	Pass	
	50		3.84	-1.273	-0.0015	-2.5 to 2.5	Pass	
	826.4		20	3.6	-2.081	-0.0025	-2.5 to 2.5	Pass
				3.84	-0.722	-0.0009	-2.5 to 2.5	Pass
				4.25	-3.104	-0.0038	-2.5 to 2.5	Pass
			-30	3.84	-2.725	-0.0033	-2.5 to 2.5	Pass
		-20	3.84	-1.609	-0.0019	-2.5 to 2.5	Pass	
		-10	3.84	-1.545	-0.0019	-2.5 to 2.5	Pass	
		0	3.84	-1.917	-0.0023	-2.5 to 2.5	Pass	
		10	3.84	-0.687	-0.0008	-2.5 to 2.5	Pass	
30		3.84	-2.918	-0.0035	-2.5 to 2.5	Pass		
40		3.84	-2.804	-0.0034	-2.5 to 2.5	Pass		
50		3.84	-1.588	-0.0019	-2.5 to 2.5	Pass		
836.6		20	3.6	-1.645	-0.0020	-2.5 to 2.5	Pass	
			3.84	-2.511	-0.0030	-2.5 to 2.5	Pass	
			4.25	-2.825	-0.0034	-2.5 to 2.5	Pass	
		-30	3.84	-1.402	-0.0017	-2.5 to 2.5	Pass	
	-20	3.84	-0.715	-0.0009	-2.5 to 2.5	Pass		
	-10	3.84	-2.646	-0.0032	-2.5 to 2.5	Pass		
	0	3.84	-2.038	-0.0024	-2.5 to 2.5	Pass		
	10	3.84	-3.104	-0.0037	-2.5 to 2.5	Pass		
	30	3.84	-3.397	-0.0041	-2.5 to 2.5	Pass		
	40	3.84	0.293	0.0004	-2.5 to 2.5	Pass		
	50	3.84	-2.038	-0.0024	-2.5 to 2.5	Pass		



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846.6	20	3.6	-1.688	-0.0020	-2.5 to 2.5	Pass
		3.84	-1.009	-0.0012	-2.5 to 2.5	Pass
		4.25	-1.109	-0.0013	-2.5 to 2.5	Pass
	-30	3.84	-0.315	-0.0004	-2.5 to 2.5	Pass
	-20	3.84	-0.923	-0.0011	-2.5 to 2.5	Pass
	-10	3.84	-1.209	-0.0014	-2.5 to 2.5	Pass
	0	3.84	-1.523	-0.0018	-2.5 to 2.5	Pass
	10	3.84	-1.545	-0.0018	-2.5 to 2.5	Pass
	30	3.84	-1.988	-0.0023	-2.5 to 2.5	Pass
	40	3.84	-1.409	-0.0017	-2.5 to 2.5	Pass
50	3.84	-0.572	-0.0007	-2.5 to 2.5	Pass	



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3. Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ TM1
 Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.1111	58.03	-49.81	25.32	-61.72	-13.00	48.72	Horizontal
2	2479.2	46.63	-49.02	27.28	-70.37	-13.00	57.37	Horizontal
3	3305.6	44.73	-48.63	28.62	-70.54	-13.00	57.54	Horizontal
4	4132	44.38	-48.29	29.64	-69.53	-13.00	56.53	Horizontal
5	4958.4	44.86	-48.05	31.40	-67.05	-13.00	54.05	Horizontal
6	5784.8	45.01	-47.69	32.76	-65.18	-13.00	52.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8	46.60	-49.82	25.31	-73.17	-13.00	60.17	Vertical
2	2479.2	46.41	-49.02	27.28	-70.59	-13.00	57.59	Vertical
3	3305.6	45.36	-48.63	28.62	-69.91	-13.00	56.91	Vertical
4	4132	44.29	-48.29	29.64	-69.62	-13.00	56.62	Vertical
5	4958.4	44.32	-48.05	31.40	-67.59	-13.00	54.59	Vertical
6	5784.8	45.15	-47.69	32.76	-65.04	-13.00	52.04	Vertical



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Test Band = WCDMA Band V_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674.6667	61.81	-49.77	25.40	-57.82	-13.00	44.82	Horizontal
2	2509.2	45.90	-48.93	27.32	-70.96	-13.00	57.96	Horizontal
3	3345.6	45.17	-48.66	28.64	-70.11	-13.00	57.11	Horizontal
4	4182	44.94	-48.34	29.73	-68.93	-13.00	55.93	Horizontal
5	5018.4	44.65	-47.95	31.54	-67.02	-13.00	54.02	Horizontal
6	5854.8	45.21	-47.33	32.77	-64.61	-13.00	51.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674.2222	57.68	-49.77	25.40	-61.96	-13.00	48.96	Vertical
2	2509.2	45.45	-48.93	27.32	-71.41	-13.00	58.41	Vertical
3	3345.6	44.82	-48.66	28.64	-70.46	-13.00	57.46	Vertical
4	4182	44.09	-48.34	29.73	-69.78	-13.00	56.78	Vertical
5	5018.4	44.51	-47.95	31.54	-67.16	-13.00	54.16	Vertical
6	5854.8	44.80	-47.33	32.77	-65.02	-13.00	52.02	Vertical



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Report No.: SEWM2311000456RG01
 Rev.: 01
 Page: 8 of 35

Test Band = WCDMA Band V_ TM1
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1694.6667	65.24	-49.73	25.48	-54.27	-13.00	41.27	Horizontal
2	2539.8	46.37	-49.01	27.40	-70.50	-13.00	57.50	Horizontal
3	3386.4	45.68	-48.68	28.65	-69.61	-13.00	56.61	Horizontal
4	4233	43.81	-48.25	29.82	-69.88	-13.00	56.88	Horizontal
5	5079.6	45.12	-47.93	31.69	-66.38	-13.00	53.38	Horizontal
6	5926.2	44.74	-47.17	32.79	-64.91	-13.00	51.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.5556	58.67	-49.74	25.47	-60.86	-13.00	47.86	Vertical
2	2539.8	45.96	-49.01	27.40	-70.91	-13.00	57.91	Vertical
3	3386.4	46.25	-48.68	28.65	-69.04	-13.00	56.04	Vertical
4	4233	44.07	-48.25	29.82	-69.62	-13.00	56.62	Vertical
5	5079.6	45.01	-47.93	31.69	-66.49	-13.00	53.49	Vertical
6	5926.2	44.78	-47.17	32.79	-64.87	-13.00	51.87	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

2) All antennas of RSE are tested, and only the worst data is presented.



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4. 99% & 26dB Bandwidth

4.1 Band V_OBW

4.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.168	/	Pass
			836.6	4.166	/	Pass
			846.6	4.151	/	Pass
	HSDPA	Subtest 1	826.4	4.185	/	Pass
			836.6	4.141	/	Pass
			846.6	4.159	/	Pass
	HSUPA	Subtest 1	826.4	4.176	/	Pass
			836.6	4.155	/	Pass
			846.6	4.165	/	Pass

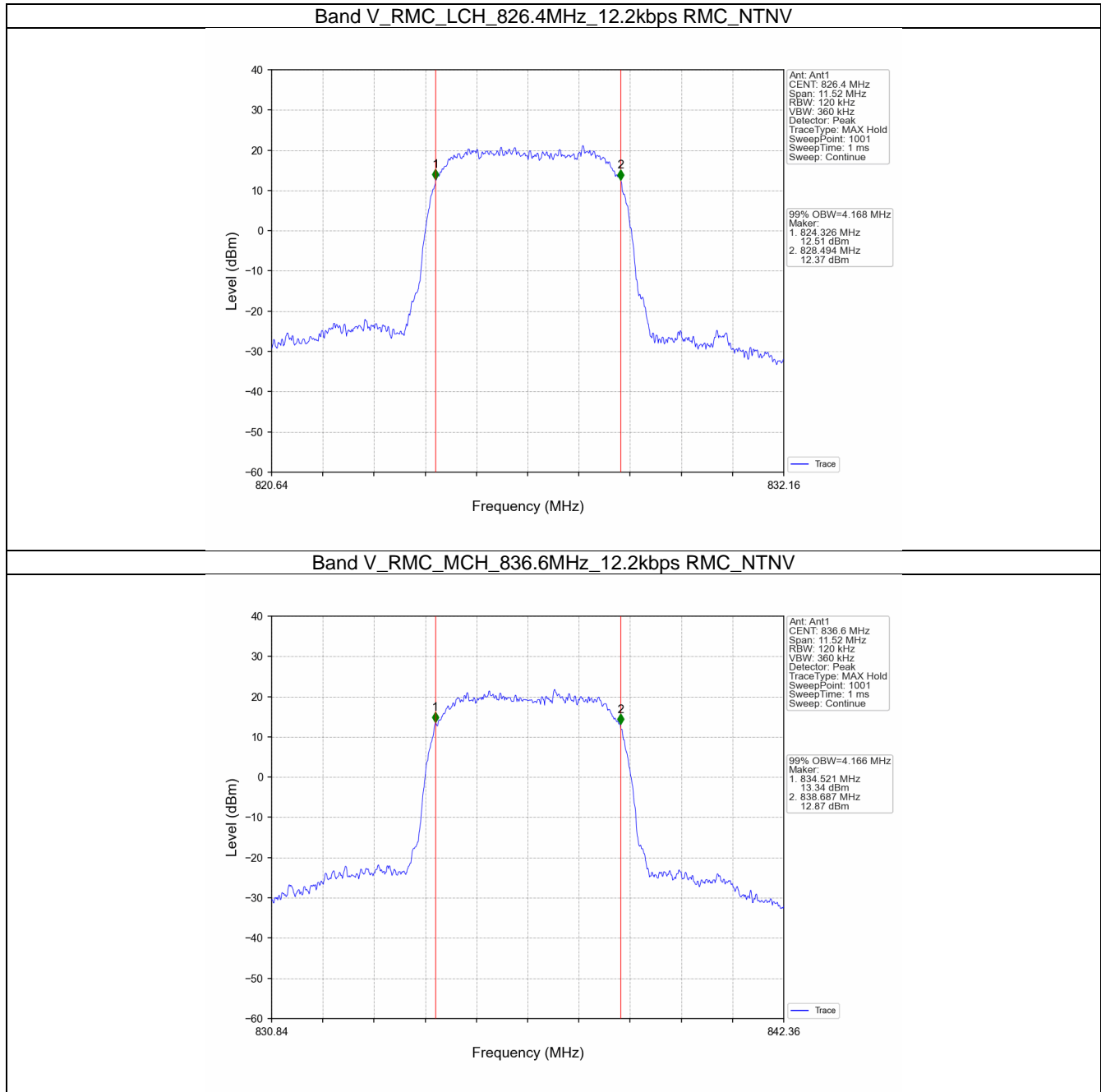


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4.1.2 Test Graph

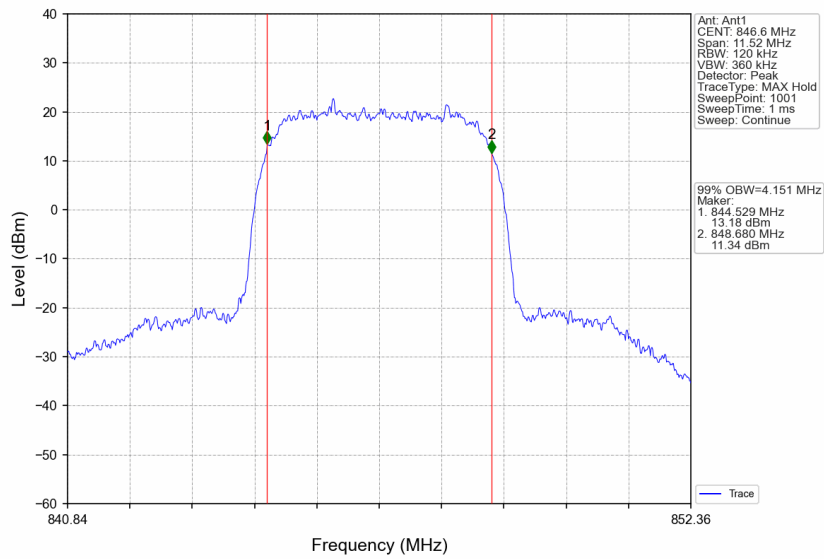


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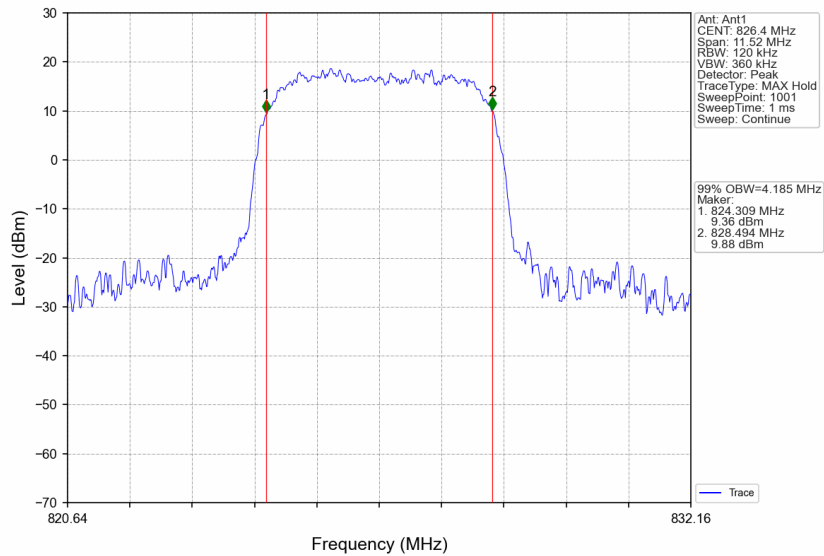
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band V_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



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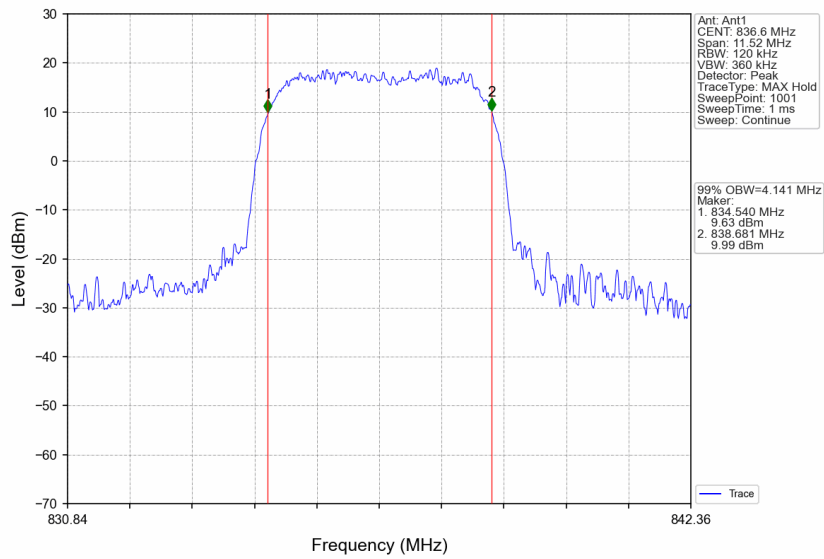
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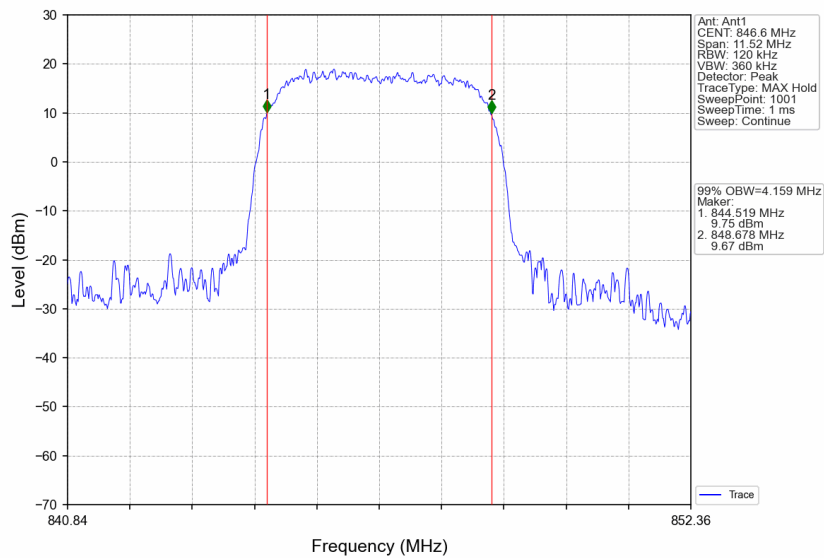
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Band V_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



Band V_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



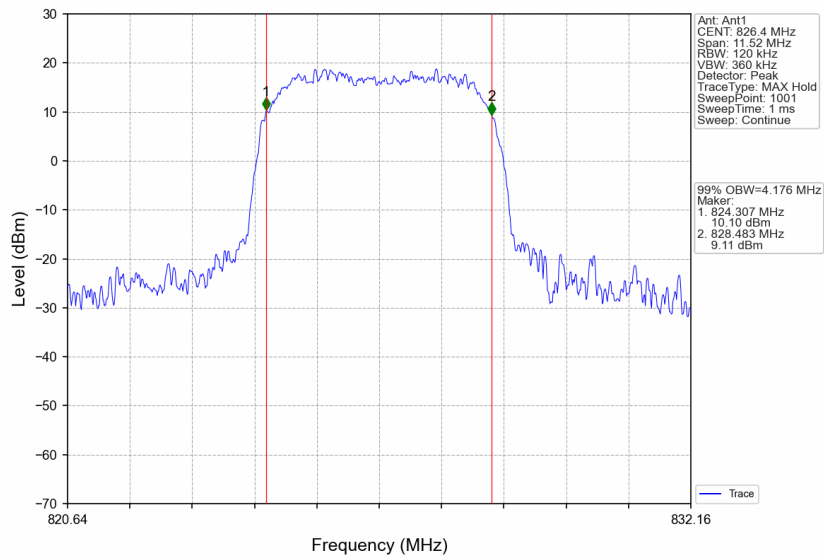
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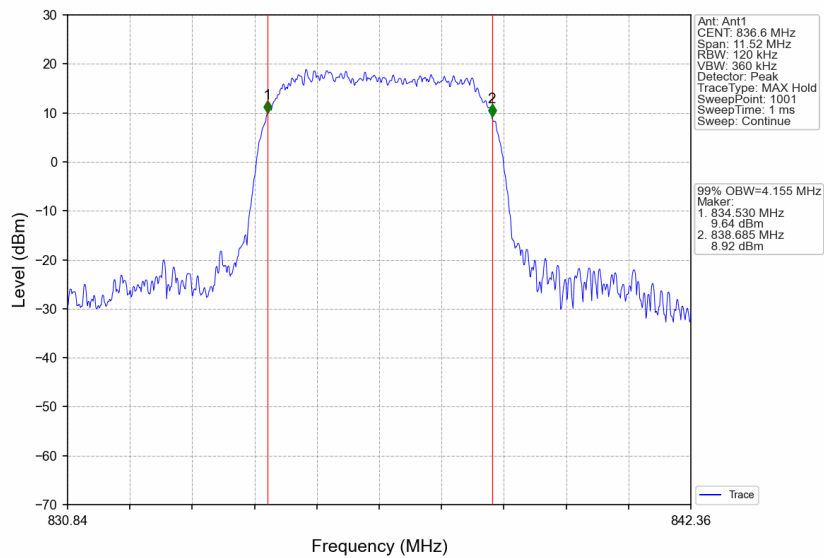
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Band V_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band V_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



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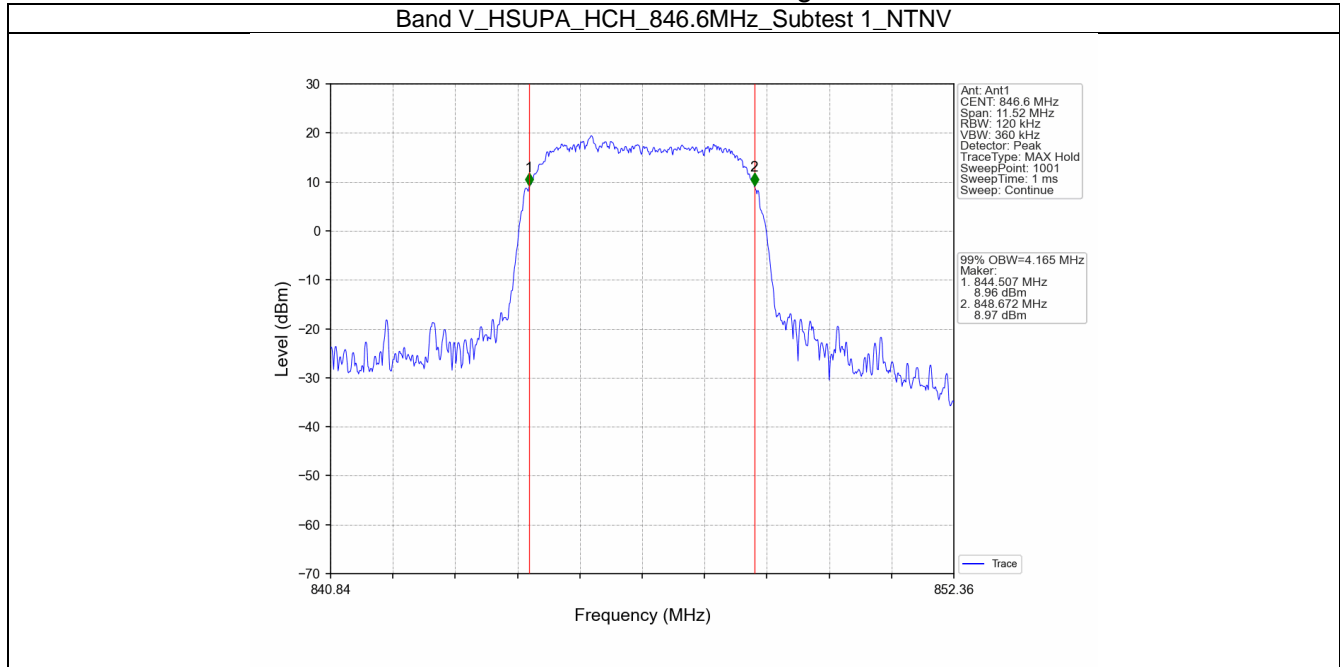
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Band V_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



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4.2 Band V_XDB

4.2.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.750	/	Pass
			836.6	4.734	/	Pass
			846.6	4.724	/	Pass
	HSDPA	Subtest 1	826.4	4.730	/	Pass
			836.6	4.729	/	Pass
			846.6	4.736	/	Pass
	HSUPA	Subtest 1	826.4	4.740	/	Pass
			836.6	4.737	/	Pass
			846.6	4.713	/	Pass



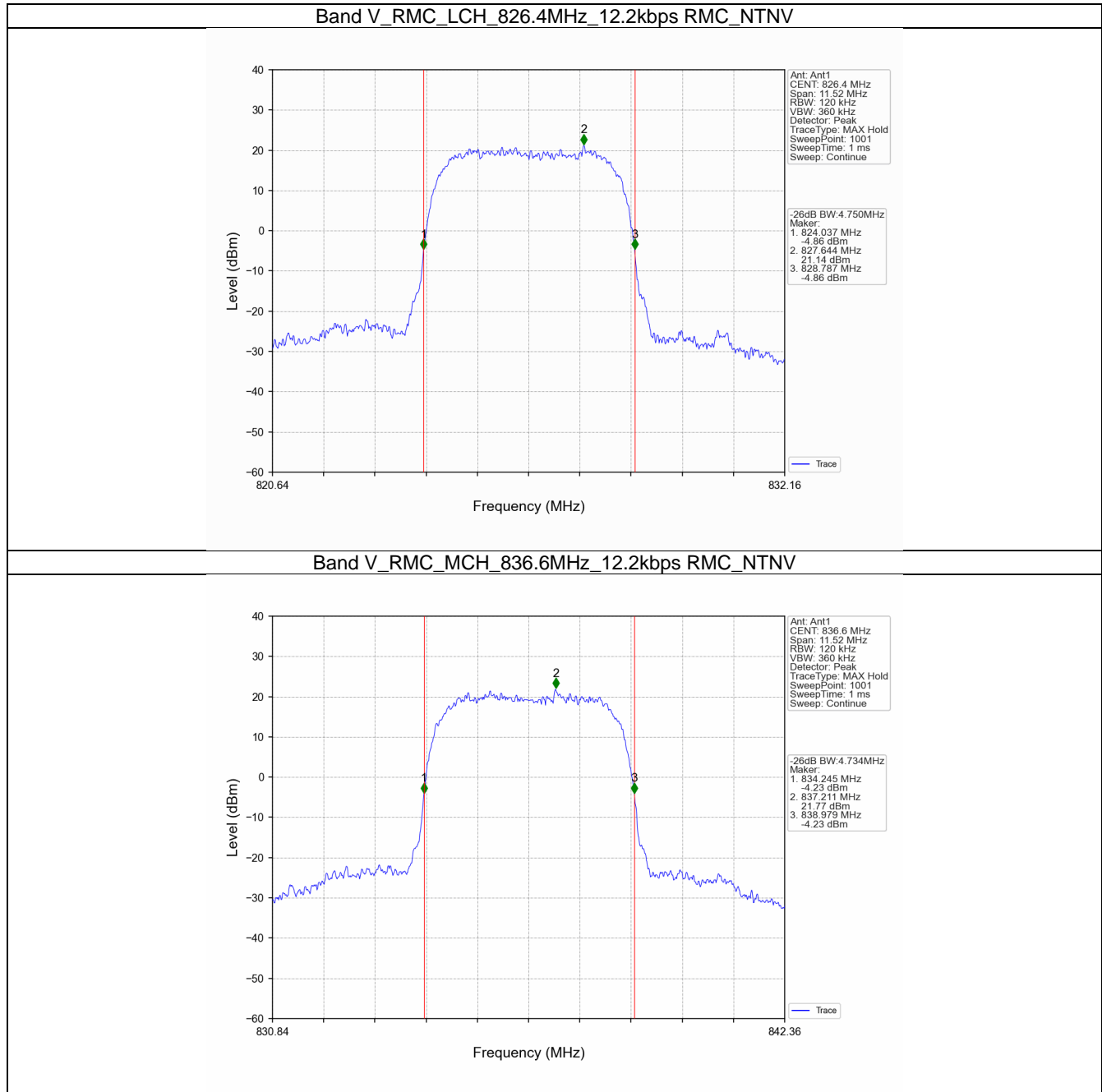
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4.2.2 Test Graph

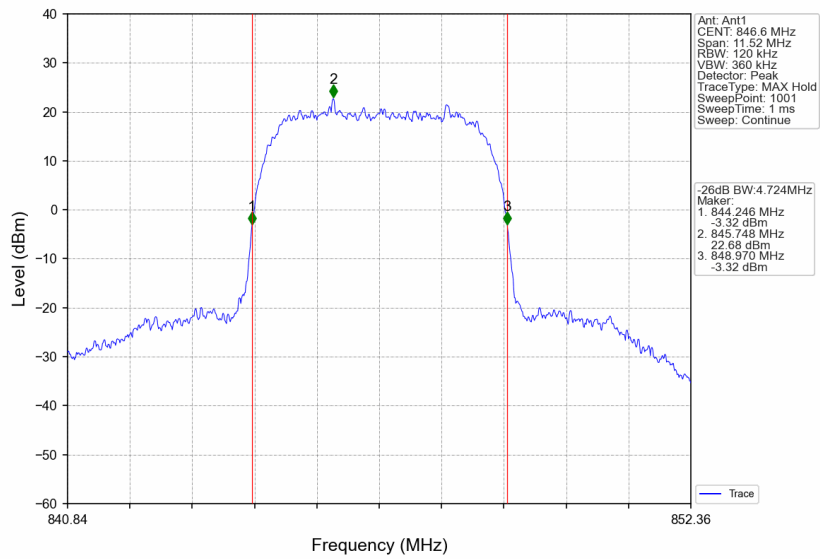


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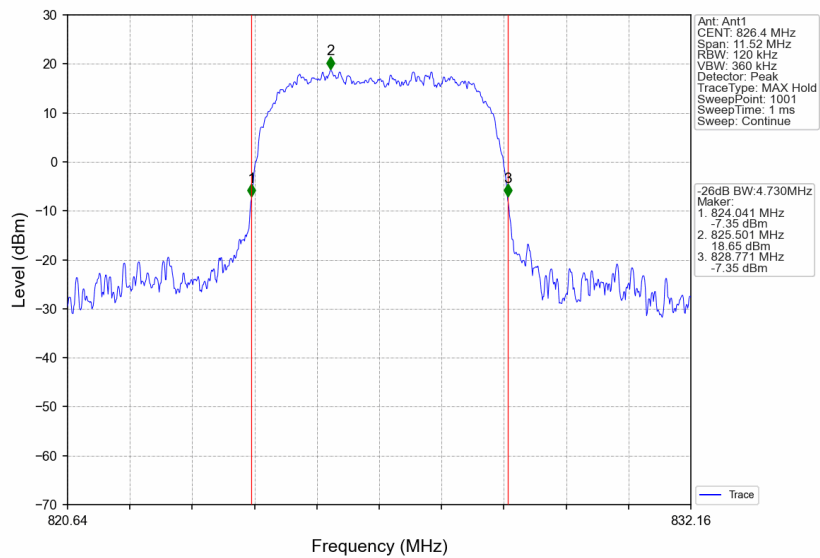
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band V_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

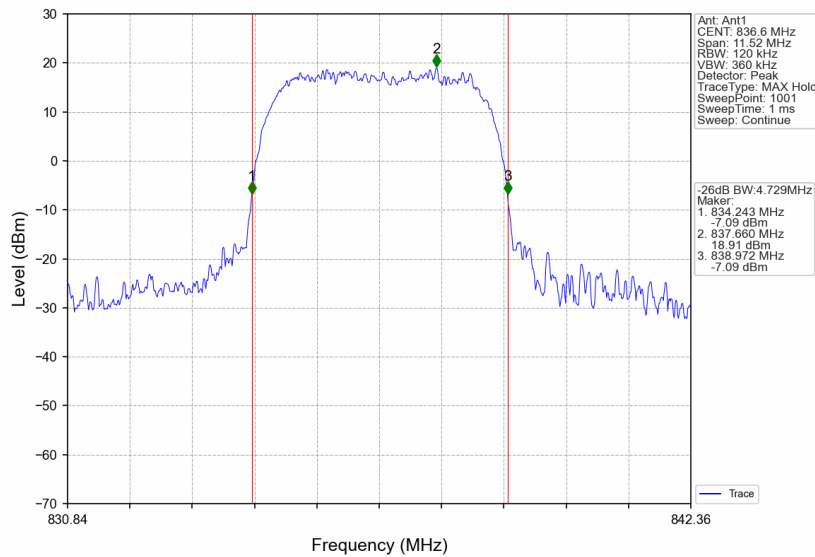


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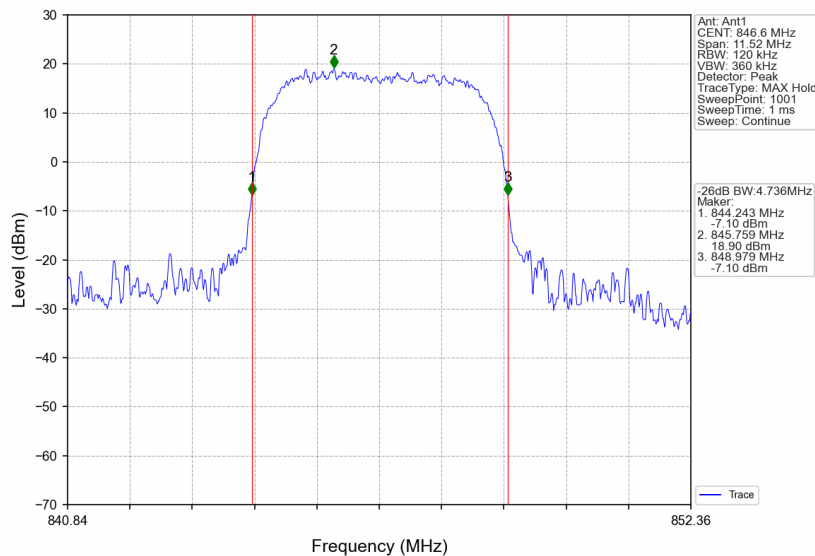
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Band V_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



Band V_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



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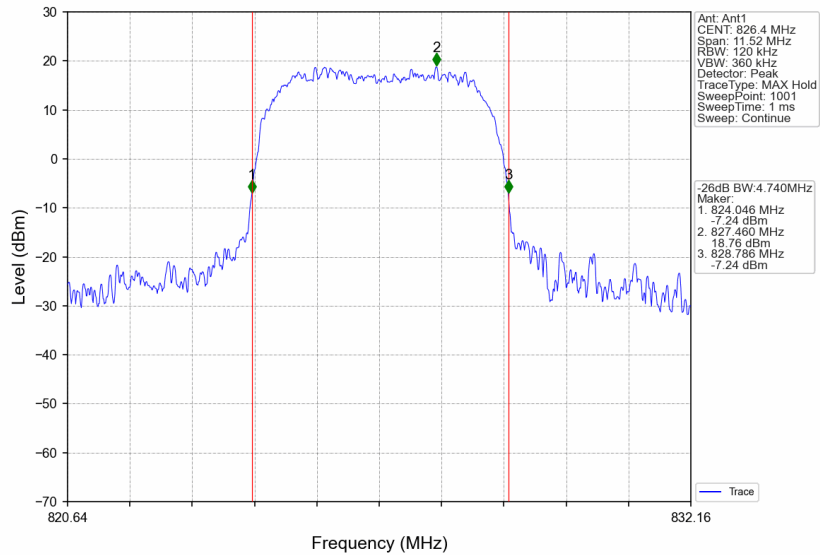
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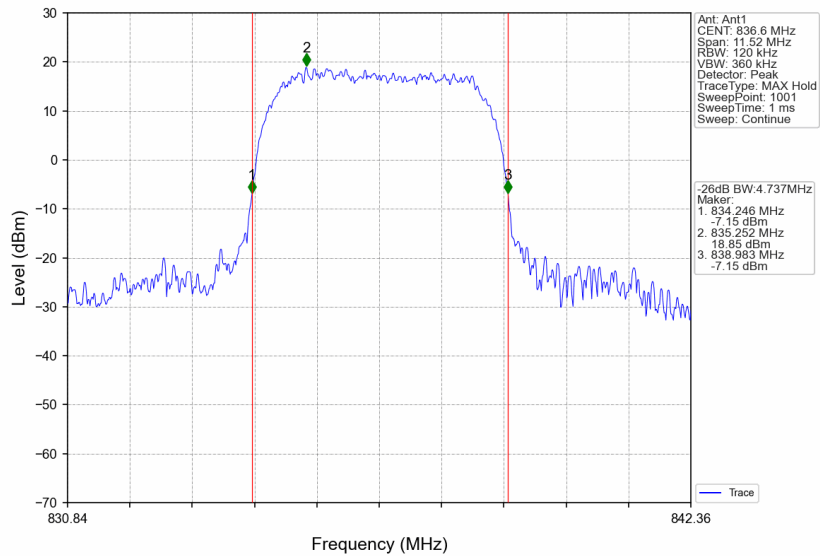
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Band V_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band V_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



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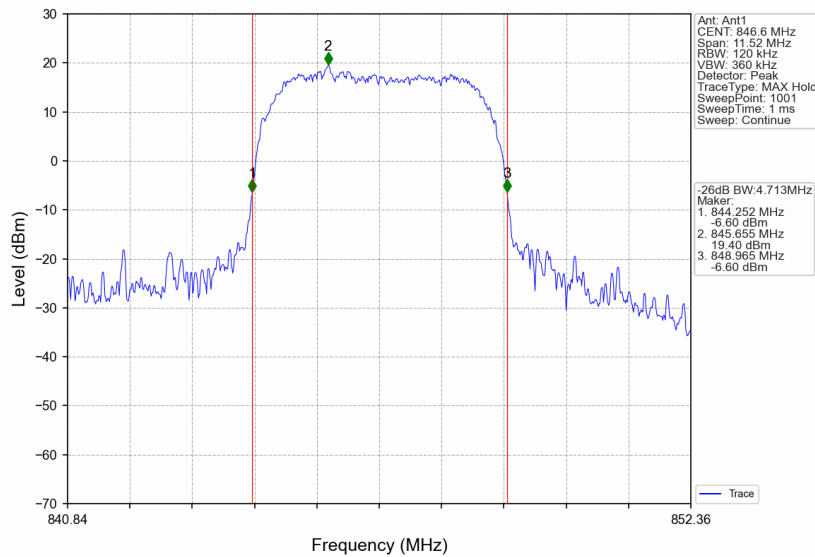
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Band V_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



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5. Peak-Average Ratio

5.1 Band V

5.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.92	<=13	Pass
			836.6	2.85	<=13	Pass
			846.6	2.76	<=13	Pass
	HSDPA	Subtest 1	826.4	5.77	<=13	Pass
			836.6	5.73	<=13	Pass
			846.6	5.88	<=13	Pass
	HSUPA	Subtest 1	826.4	5.76	<=13	Pass
			836.6	5.72	<=13	Pass
			846.6	5.88	<=13	Pass



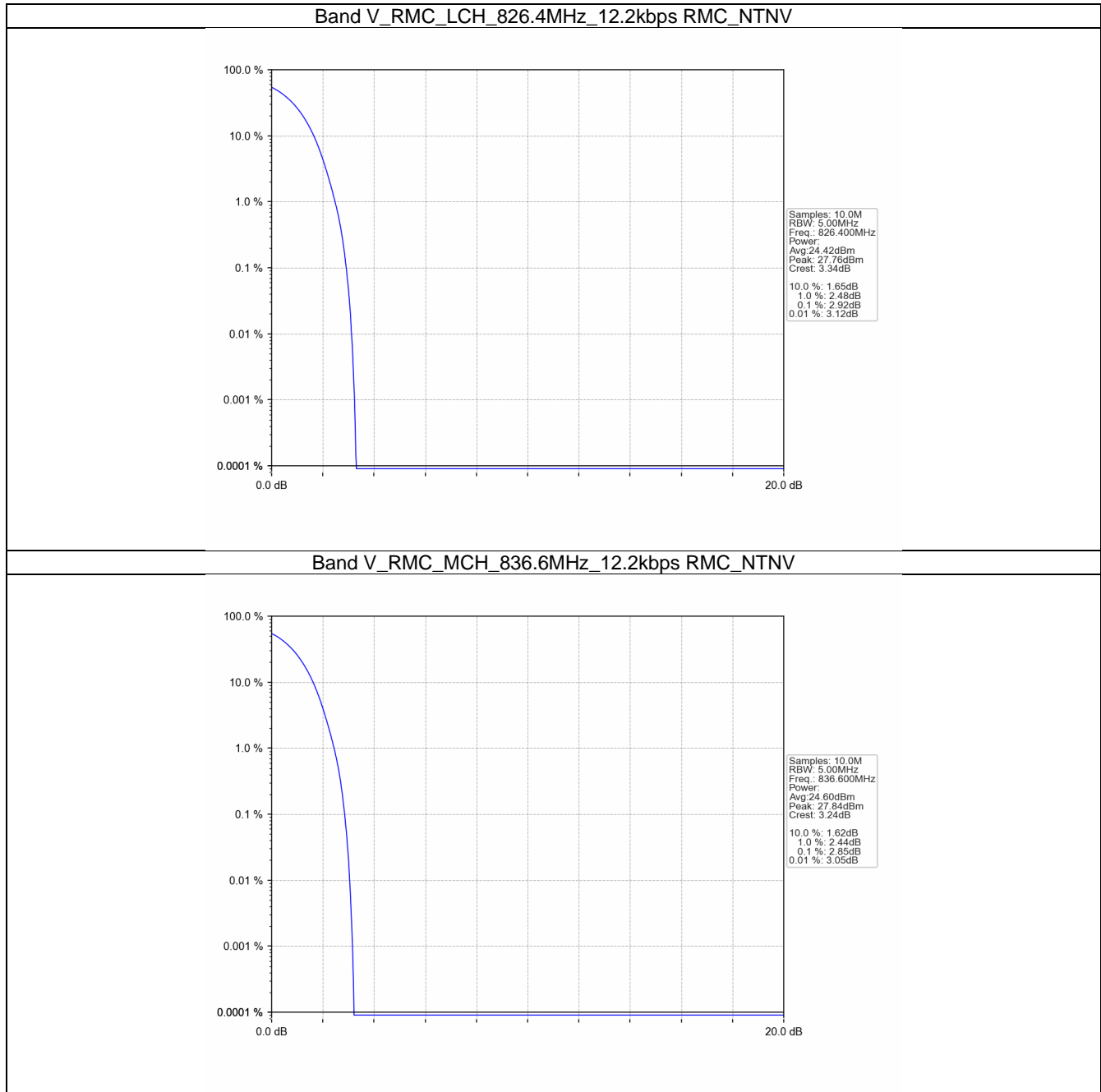
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5.1.2 Test Graph

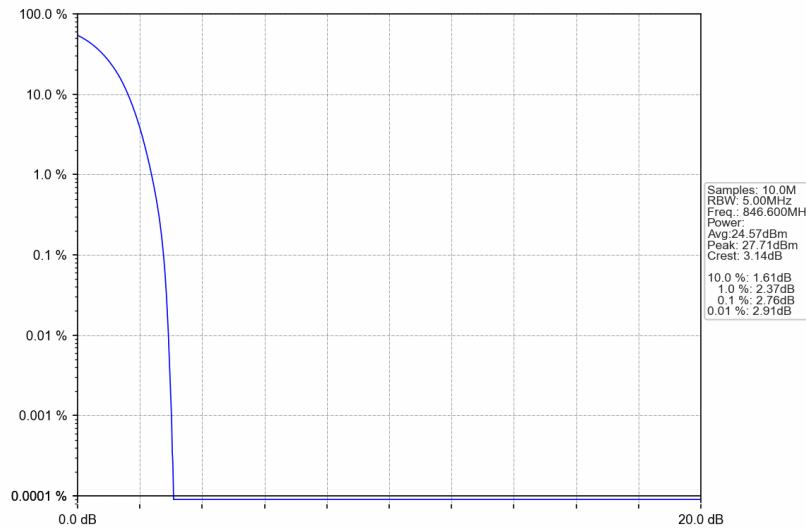


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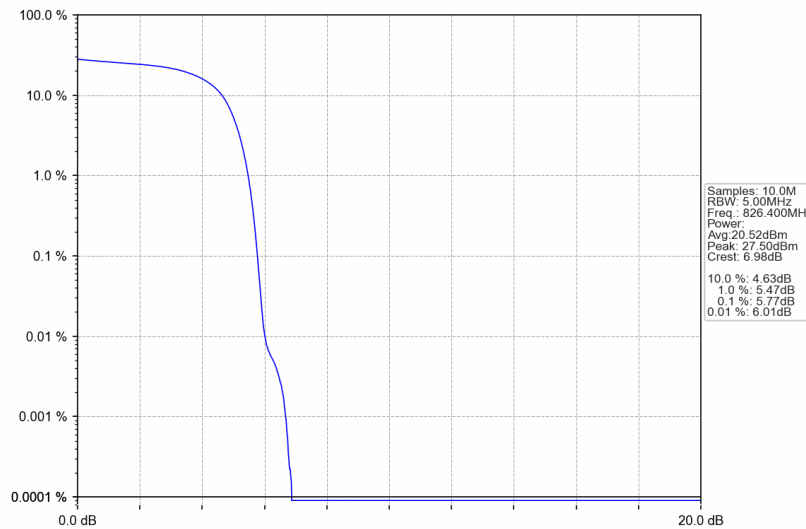
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band V_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

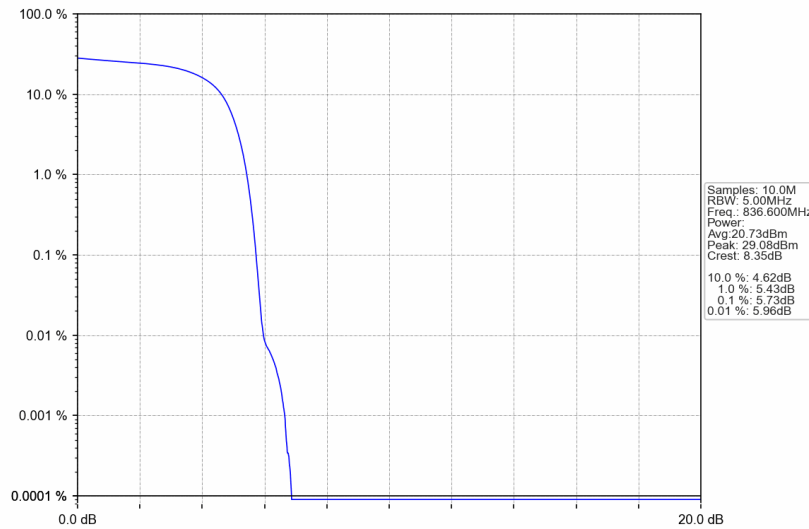


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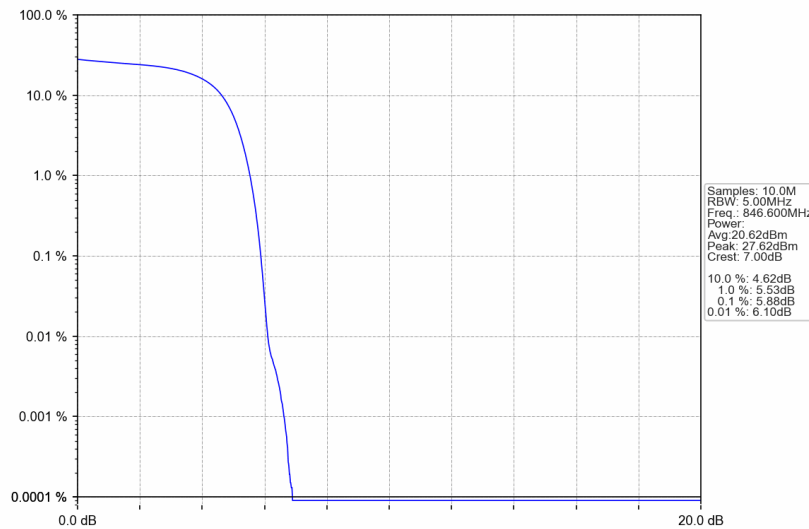
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Band V_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



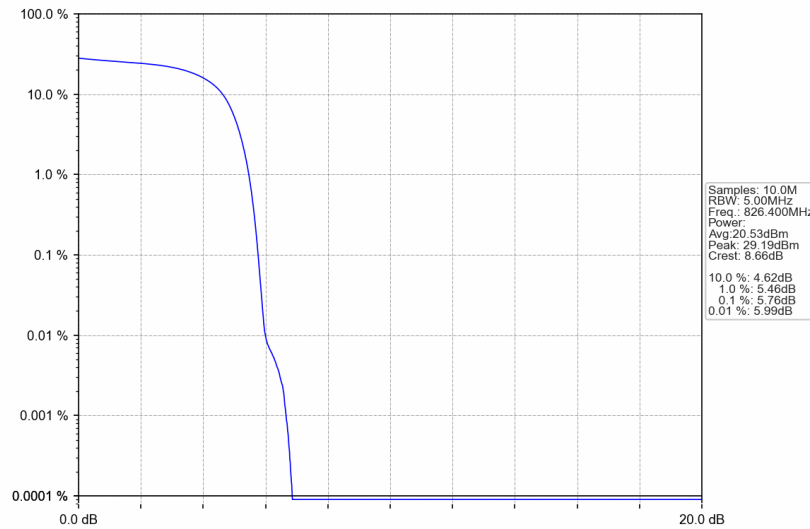
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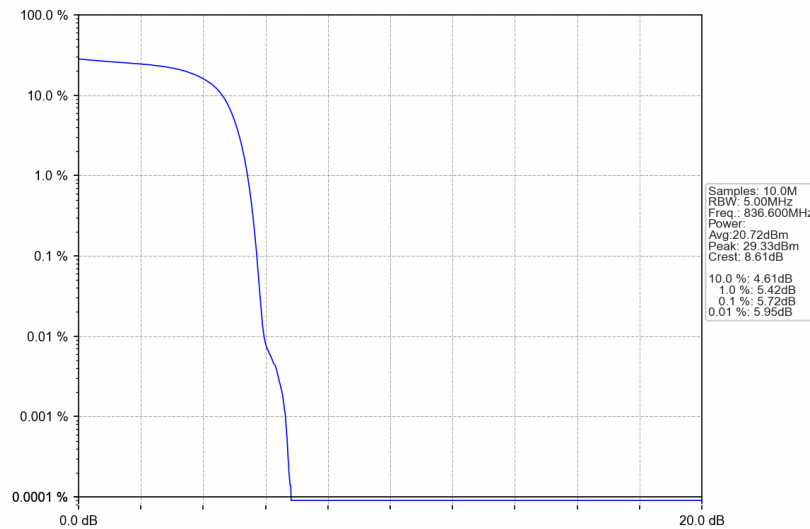
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Band V_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band V_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



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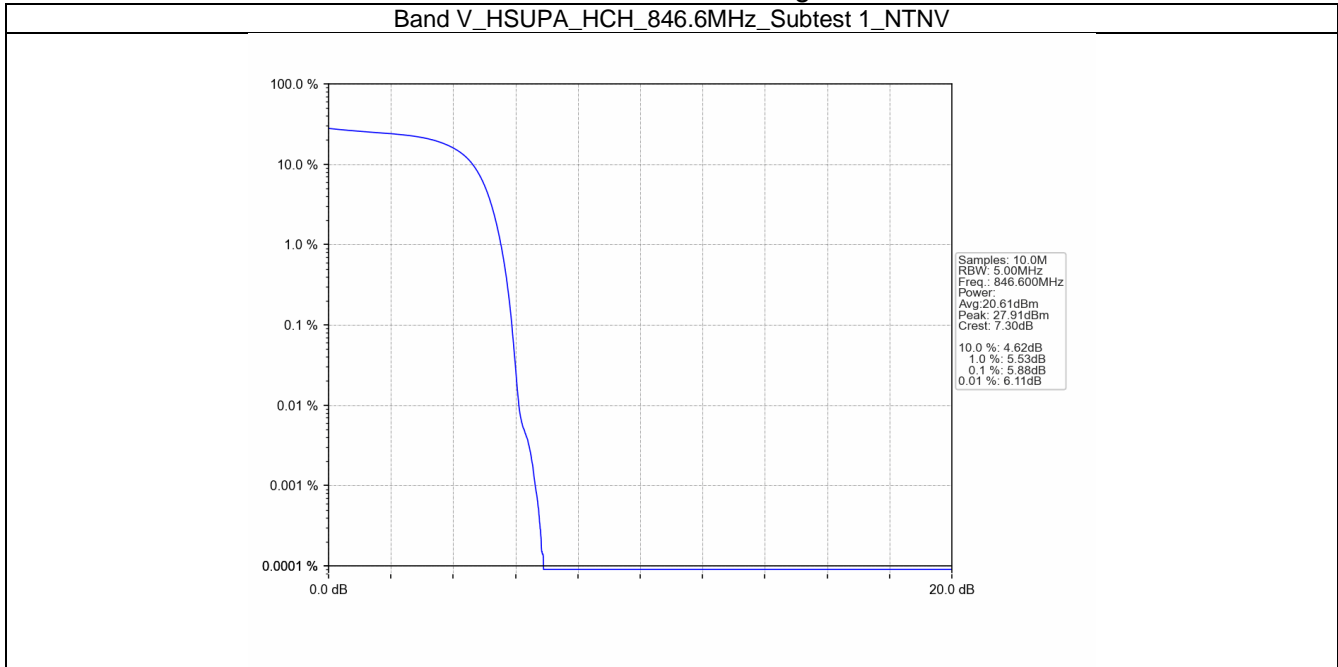
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Rev.: 01

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Band V_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



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6. Spurious Emission & Band Edges

6.1 Band V

6.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	



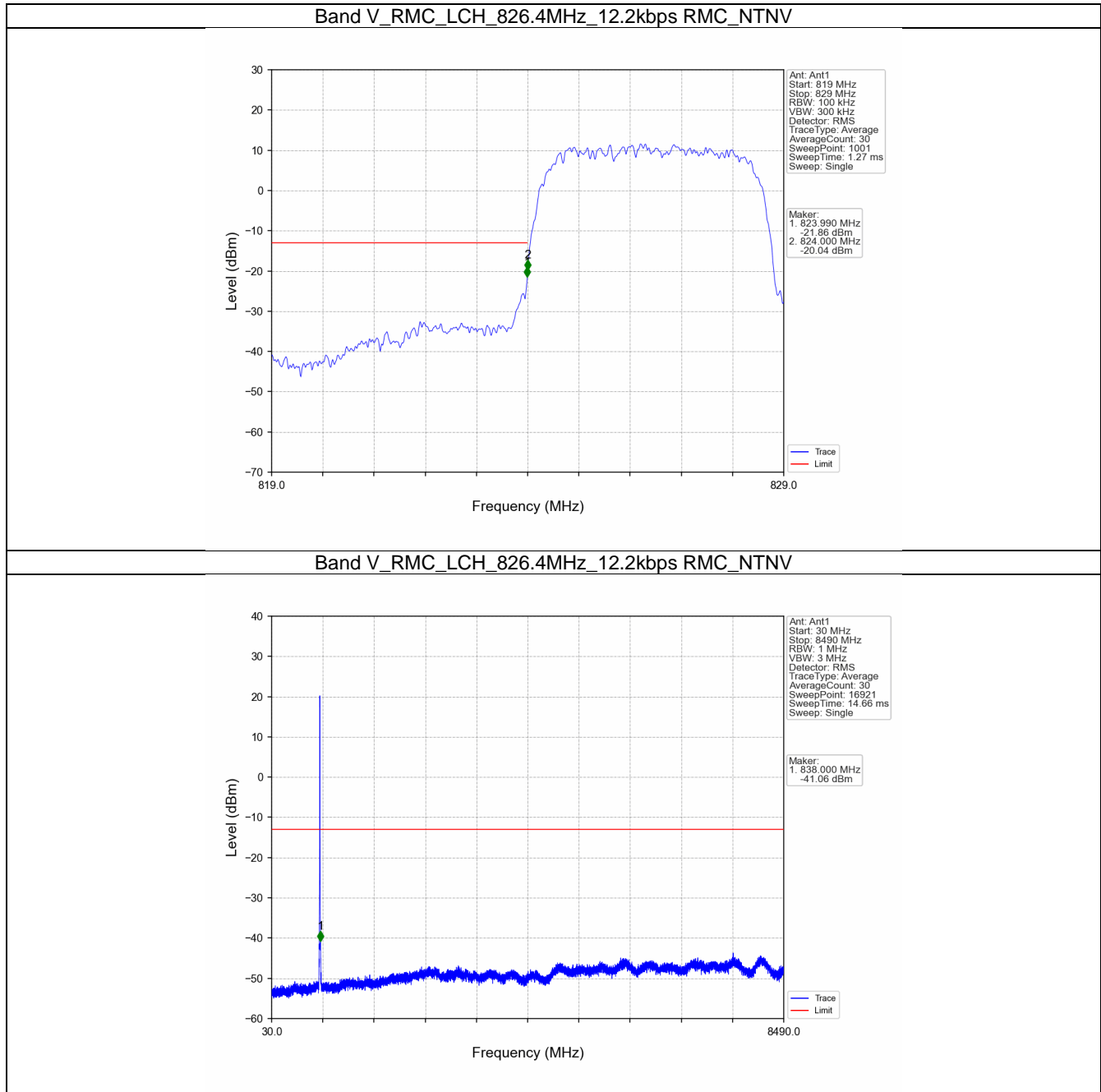
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6.1.2 Test Graph

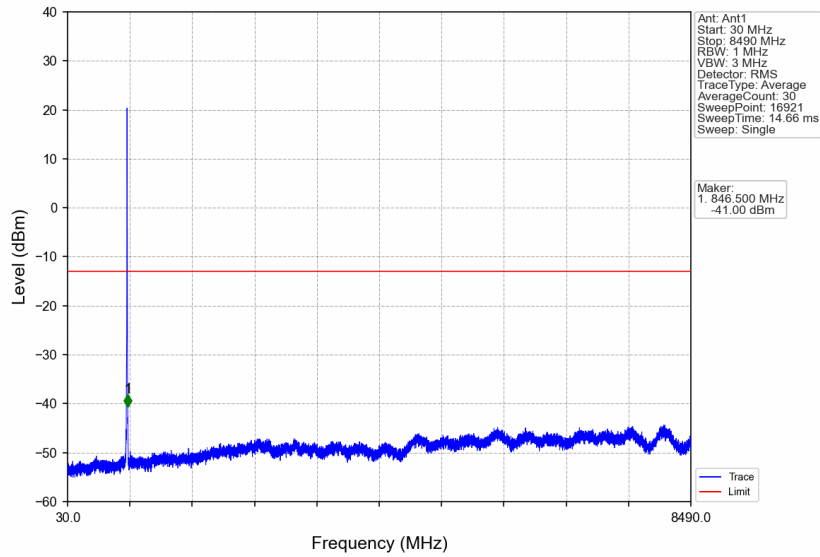


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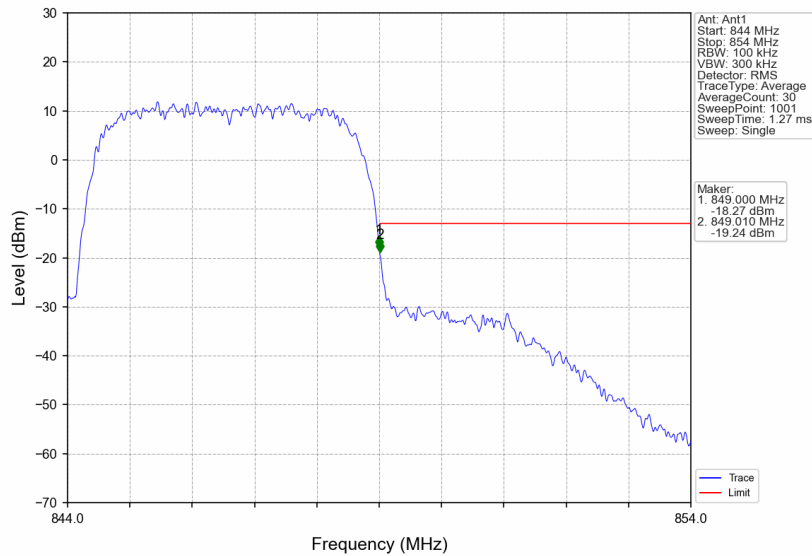
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

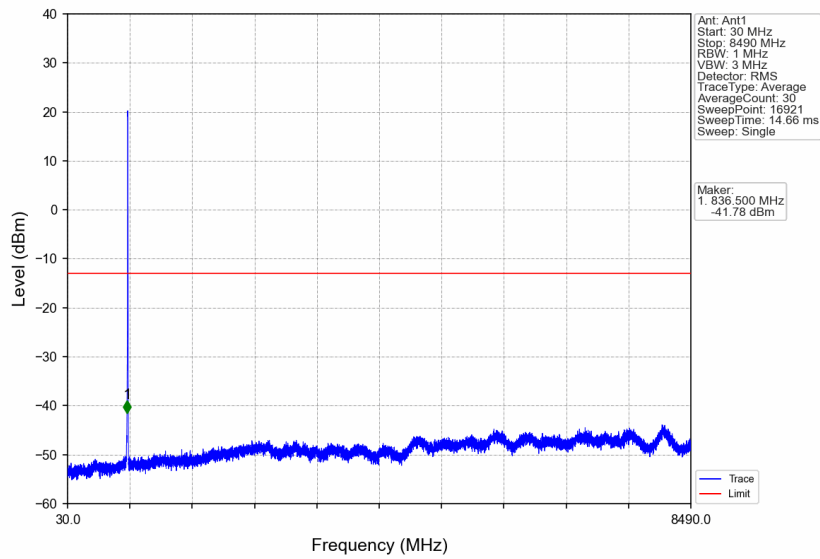


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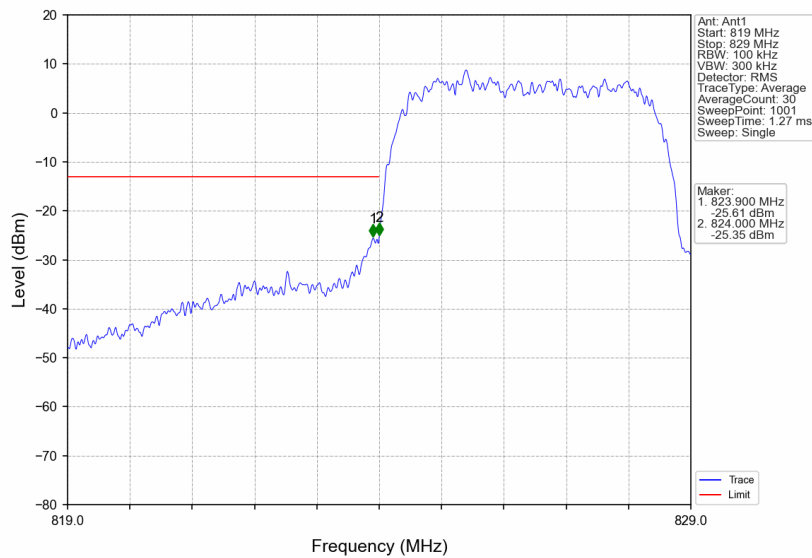
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band V_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



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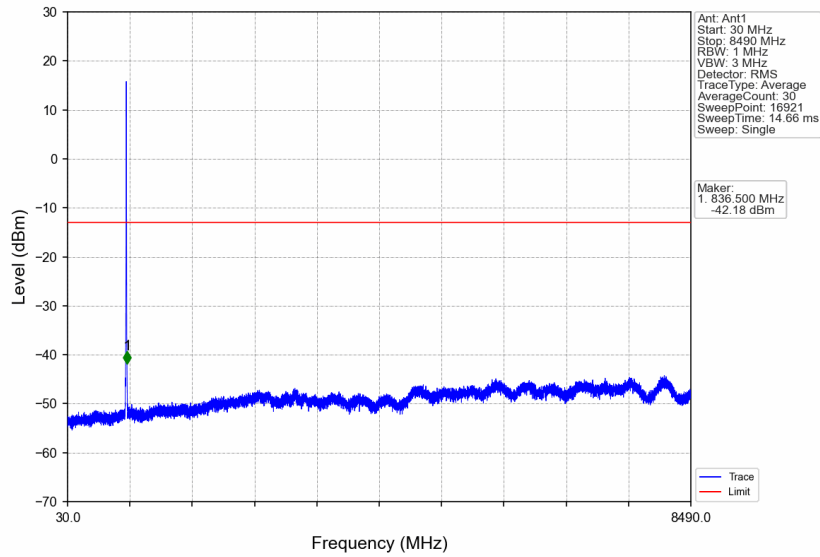
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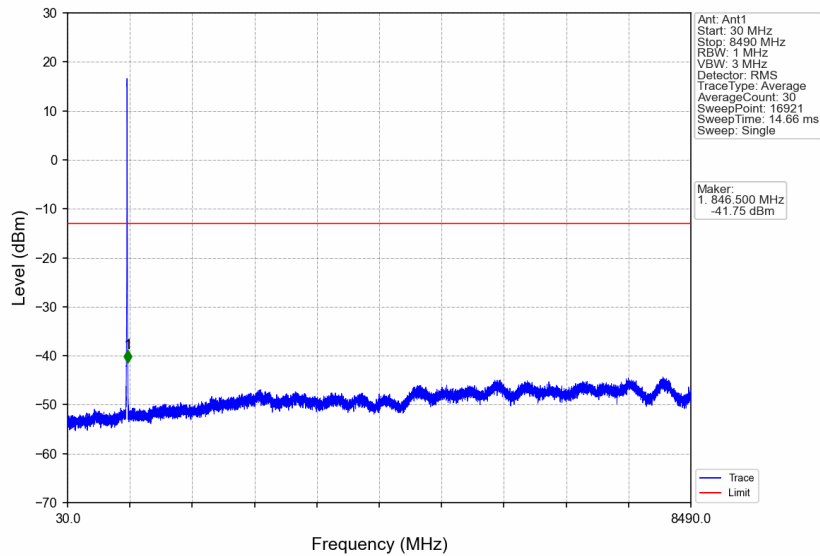
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Band V_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



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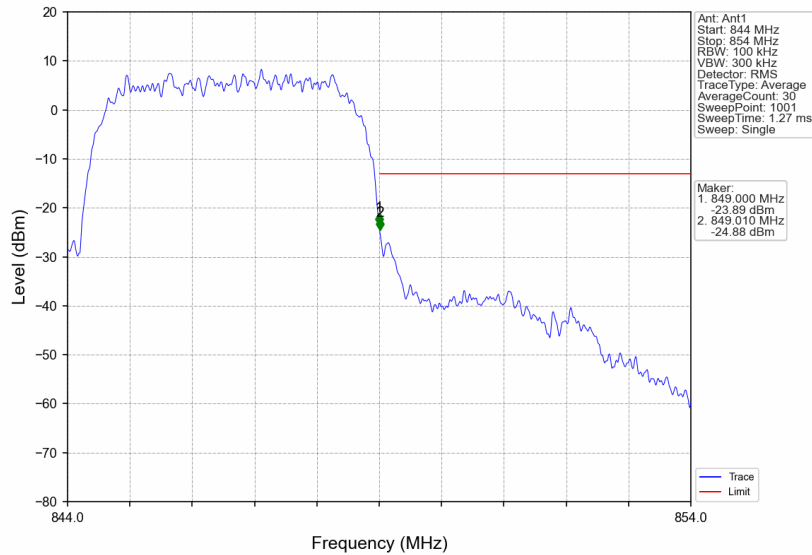
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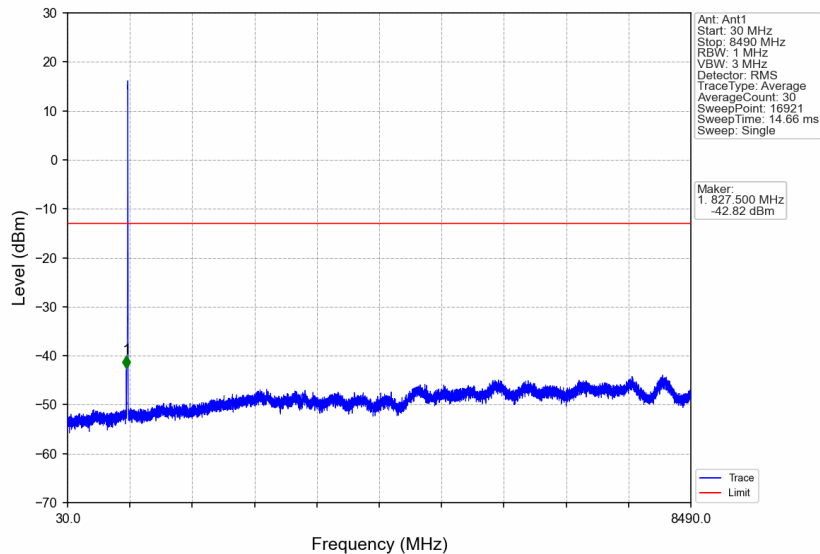
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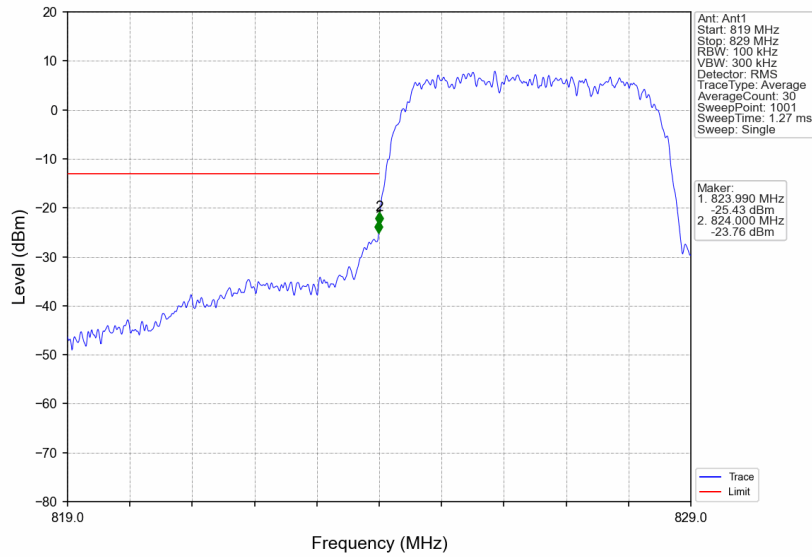
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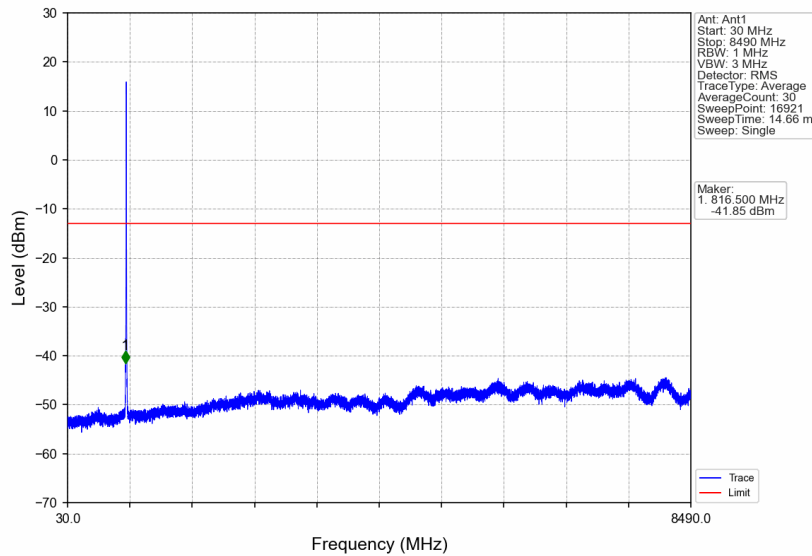
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Band V_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



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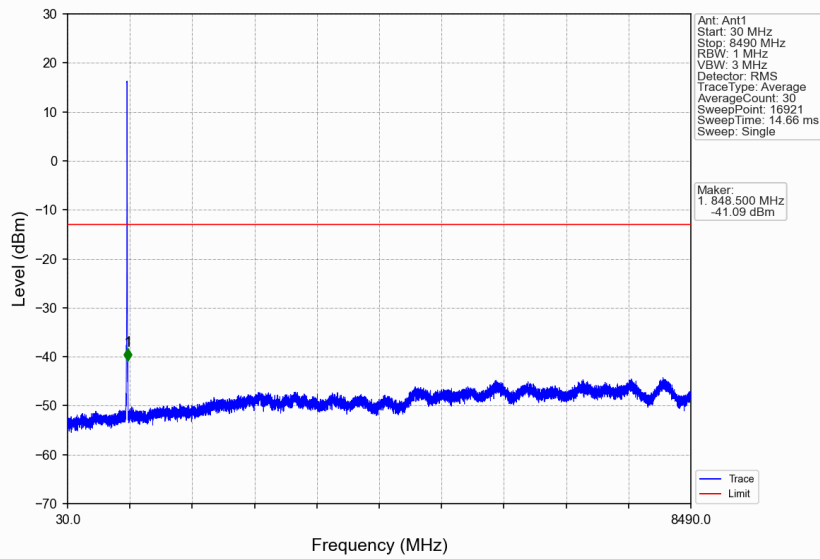
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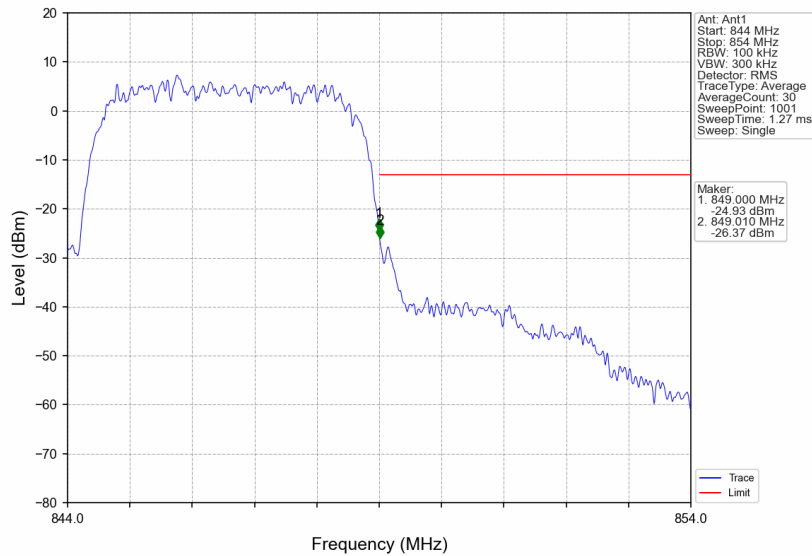
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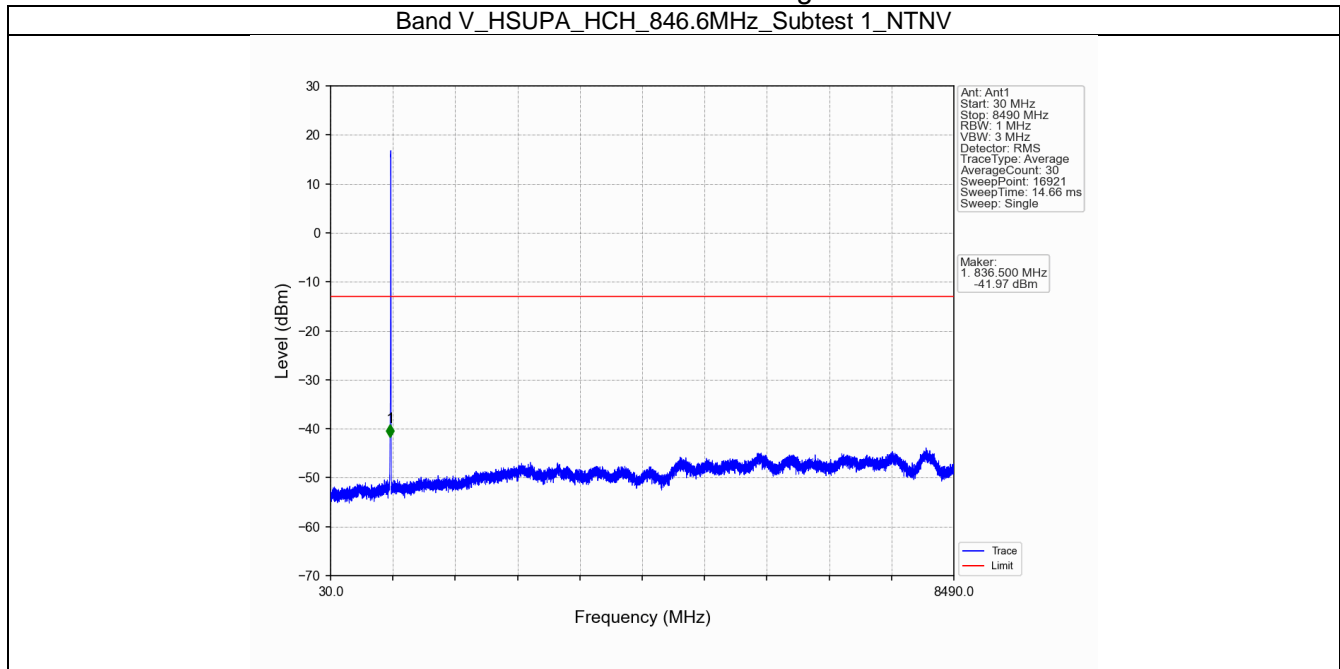
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