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Appendix B.3

WCDMA Band II



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band II_EIRP

1.1.1 Test Result

ENV	Band: 2							Verdict		
	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)				
	Network	Subset				Result	Limit			
NTNV	RMC	12.2kbps RMC	1852.4	22.90	-0.70	22.20	<=33.01	Pass		
			1880	22.59	-0.70	21.89	<=33.01	Pass		
			1907.6	22.84	-0.70	22.14	<=33.01	Pass		
	HSDPA	Subtest 1-4	1852.4	21.02	-0.70	20.32	<=33.01	Pass		
			1852.4	21.01	-0.70	20.31	<=33.01	Pass		
			1852.4	21.04	-0.70	20.34	<=33.01	Pass		
			1852.4	21.00	-0.70	20.30	<=33.01	Pass		
			1880	21.18	-0.70	20.48	<=33.01	Pass		
			1880	21.22	-0.70	20.52	<=33.01	Pass		
			1880	21.18	-0.70	20.48	<=33.01	Pass		
			1880	21.17	-0.70	20.47	<=33.01	Pass		
			1907.6	21.03	-0.70	20.33	<=33.01	Pass		
			1907.6	21.05	-0.70	20.35	<=33.01	Pass		
			1907.6	21.05	-0.70	20.35	<=33.01	Pass		
			1907.6	20.98	-0.70	20.28	<=33.01	Pass		
			HSUPA	Subtest 1-5	1852.4	18.21	-0.70	17.51	<=33.01	Pass
					1852.4	18.53	-0.70	17.83	<=33.01	Pass
					1852.4	18.15	-0.70	17.45	<=33.01	Pass
					1852.4	18.90	-0.70	18.20	<=33.01	Pass
	1852.4	18.89			-0.70	18.19	<=33.01	Pass		
	1880	18.36			-0.70	17.66	<=33.01	Pass		
	1880	19.29			-0.70	18.59	<=33.01	Pass		
	1880	18.45			-0.70	17.75	<=33.01	Pass		
	1880	19.00			-0.70	18.30	<=33.01	Pass		
	1880	18.50			-0.70	17.80	<=33.01	Pass		
	1907.6	18.21			-0.70	17.51	<=33.01	Pass		
	1907.6	19.24			-0.70	18.54	<=33.01	Pass		
	1907.6	19.21			-0.70	18.51	<=33.01	Pass		
	1907.6	18.06			-0.70	17.36	<=33.01	Pass		
	1907.6	18.87			-0.70	18.17	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain



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2. Frequency Stability

2.1 Band II

2.1.1 Test Result

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.6	0.079	0.0000	-2.5 to 2.5	Pass
			3.84	-2.697	-0.0015	-2.5 to 2.5	Pass
			4.25	-2.668	-0.0014	-2.5 to 2.5	Pass
		-30	3.84	-1.087	-0.0006	-2.5 to 2.5	Pass
		-20	3.84	-1.502	-0.0008	-2.5 to 2.5	Pass
		-10	3.84	-1.001	-0.0005	-2.5 to 2.5	Pass
		0	3.84	-0.265	-0.0001	-2.5 to 2.5	Pass
		10	3.84	0.100	0.0001	-2.5 to 2.5	Pass
		30	3.84	0.415	0.0002	-2.5 to 2.5	Pass
		40	3.84	-0.122	-0.0001	-2.5 to 2.5	Pass
	50	3.84	0.944	0.0005	-2.5 to 2.5	Pass	
	1880	20	3.6	0.057	0.0000	-2.5 to 2.5	Pass
			3.84	-0.064	0.0000	-2.5 to 2.5	Pass
			4.25	0.944	0.0005	-2.5 to 2.5	Pass
		-30	3.84	0.422	0.0002	-2.5 to 2.5	Pass
		-20	3.84	1.652	0.0009	-2.5 to 2.5	Pass
		-10	3.84	1.202	0.0006	-2.5 to 2.5	Pass
		0	3.84	1.166	0.0006	-2.5 to 2.5	Pass
		10	3.84	1.760	0.0009	-2.5 to 2.5	Pass
		30	3.84	1.752	0.0009	-2.5 to 2.5	Pass
		40	3.84	1.981	0.0011	-2.5 to 2.5	Pass
	50	3.84	1.495	0.0008	-2.5 to 2.5	Pass	
	1907.6	20	3.6	2.675	0.0014	-2.5 to 2.5	Pass
			3.84	1.366	0.0007	-2.5 to 2.5	Pass
			4.25	1.166	0.0006	-2.5 to 2.5	Pass
		-30	3.84	2.518	0.0013	-2.5 to 2.5	Pass
		-20	3.84	1.559	0.0008	-2.5 to 2.5	Pass
		-10	3.84	1.280	0.0007	-2.5 to 2.5	Pass
		0	3.84	1.559	0.0008	-2.5 to 2.5	Pass
		10	3.84	2.353	0.0012	-2.5 to 2.5	Pass
30		3.84	1.674	0.0009	-2.5 to 2.5	Pass	
40		3.84	2.854	0.0015	-2.5 to 2.5	Pass	
50	3.84	2.661	0.0014	-2.5 to 2.5	Pass		
HSDPA	1852.4	20	3.6	2.468	0.0013	-2.5 to 2.5	Pass
			3.84	1.194	0.0006	-2.5 to 2.5	Pass
			4.25	1.180	0.0006	-2.5 to 2.5	Pass
		-30	3.84	0.207	0.0001	-2.5 to 2.5	Pass
		-20	3.84	1.123	0.0006	-2.5 to 2.5	Pass
		-10	3.84	0.236	0.0001	-2.5 to 2.5	Pass



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Table with columns for test parameters (0, 10, 30, 40, 50, 20, -30, -20, -10, 0, 10, 30, 40, 50) and results (3.84, 0.093, 0.0001, -2.5 to 2.5, Pass). Rows are grouped by test type (1880, 1907.6, 1852.4, 1880) and HSUPA.



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1907.6	20	3.6	6.702	0.0035	-2.5 to 2.5	Pass
		3.84	4.277	0.0022	-2.5 to 2.5	Pass
		4.25	6.931	0.0036	-2.5 to 2.5	Pass
	-30	3.84	7.818	0.0041	-2.5 to 2.5	Pass
	-20	3.84	6.337	0.0033	-2.5 to 2.5	Pass
	-10	3.84	6.094	0.0032	-2.5 to 2.5	Pass
	0	3.84	5.493	0.0029	-2.5 to 2.5	Pass
	10	3.84	4.828	0.0025	-2.5 to 2.5	Pass
	30	3.84	5.887	0.0031	-2.5 to 2.5	Pass
	40	3.84	6.545	0.0034	-2.5 to 2.5	Pass
50	3.84	3.912	0.0021	-2.5 to 2.5	Pass	



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3. Field Strength of Spurious Radiation

Test Band = WCDMA Band II_ 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	3703.5	57.08	-48.50	28.98	-57.69	-13.00	44.69	Horizontal
2	5560.5	56.82	-47.66	32.71	-53.39	-13.00	40.39	Horizontal
3	7409.6	45.76	-46.17	36.58	-59.09	-13.00	46.09	Horizontal
4	9262	41.97	-43.13	37.84	-58.58	-13.00	45.58	Horizontal
5	11114.4	39.23	-40.36	39.38	-57.01	-13.00	44.01	Horizontal
6	12966.8	39.38	-39.40	38.62	-56.66	-13.00	43.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3706.5	49.67	-48.49	28.99	-65.09	-13.00	52.09	Vertical
2	5553.75	56.35	-47.66	32.71	-53.86	-13.00	40.86	Vertical
3	7409.6	45.72	-46.17	36.58	-59.13	-13.00	46.13	Vertical
4	9262	41.79	-43.13	37.84	-58.76	-13.00	45.76	Vertical
5	11114.4	39.22	-40.36	39.38	-57.02	-13.00	44.02	Vertical
6	12966.8	39.50	-39.40	38.62	-56.54	-13.00	43.54	Vertical



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Test Band = WCDMA Band II_ 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	3758.25	57.65	-48.32	29.06	-56.87	-13.00	43.87	Horizontal
2	5642.25	55.45	-47.61	32.73	-54.69	-13.00	41.69	Horizontal
3	7520	45.78	-45.85	36.78	-58.55	-13.00	45.55	Horizontal
4	9400	43.62	-43.05	37.96	-56.73	-13.00	43.73	Horizontal
5	11280	39.38	-40.44	39.34	-56.97	-13.00	43.97	Horizontal
6	13160	38.53	-38.58	38.97	-56.34	-13.00	43.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3761.25	51.35	-48.31	29.07	-63.15	-13.00	50.15	Vertical
2	5637	57.16	-47.62	32.73	-52.99	-13.00	39.99	Vertical
3	7520	44.43	-45.85	36.78	-59.90	-13.00	46.90	Vertical
4	9400	43.27	-43.05	37.96	-57.08	-13.00	44.08	Vertical
5	11280	39.06	-40.44	39.34	-57.29	-13.00	44.29	Vertical
6	13160	38.25	-38.58	38.97	-56.62	-13.00	43.62	Vertical



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Test Band = WCDMA Band II_ 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	3816.75	57.65	-48.20	29.14	-56.66	-13.00	43.66	Horizontal
2	5720.25	55.07	-47.52	32.74	-54.97	-13.00	41.97	Horizontal
3	7630	44.96	-44.77	36.64	-58.42	-13.00	45.42	Horizontal
4	9538	42.11	-42.32	38.08	-57.39	-13.00	44.39	Horizontal
5	11445.6	39.36	-40.07	39.31	-56.66	-13.00	43.66	Horizontal
6	13353.2	38.77	-39.13	39.41	-56.21	-13.00	43.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3813.75	52.56	-48.20	29.14	-61.76	-13.00	48.76	Vertical
2	5719.5	55.43	-47.52	32.74	-54.61	-13.00	41.61	Vertical
3	7627.5	46.56	-44.75	36.65	-56.80	-13.00	43.80	Vertical
4	9538	42.44	-42.32	38.08	-57.06	-13.00	44.06	Vertical
5	11445.6	39.51	-40.07	39.31	-56.51	-13.00	43.51	Vertical
6	13353.2	38.69	-39.13	39.41	-56.29	-13.00	43.29	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) - Pre-amplifier (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 II_OBW

4.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.160	/	Pass
			1880	4.159	/	Pass
			1907.6	4.155	/	Pass
	HSDPA	Subtest 1	1852.4	4.166	/	Pass
			1880	4.193	/	Pass
			1907.6	4.168	/	Pass
	HSUPA	Subtest 1	1852.4	4.168	/	Pass
			1880	4.168	/	Pass
			1907.6	4.163	/	Pass

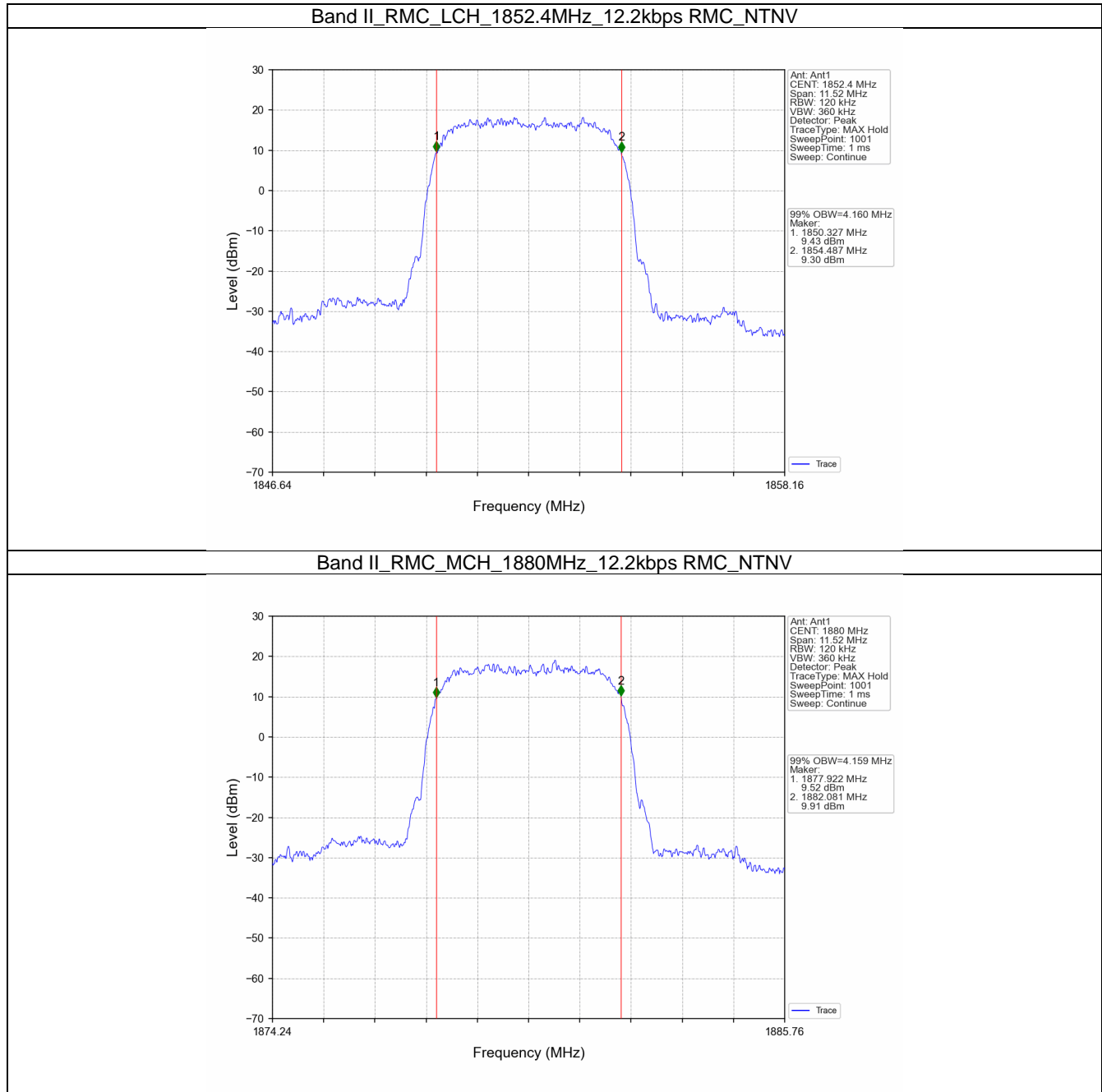


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4.1.2 Test Graph

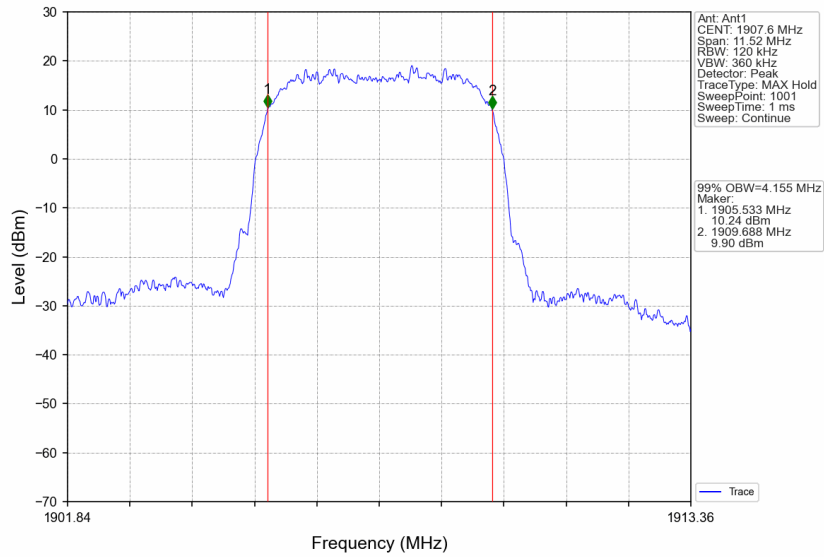


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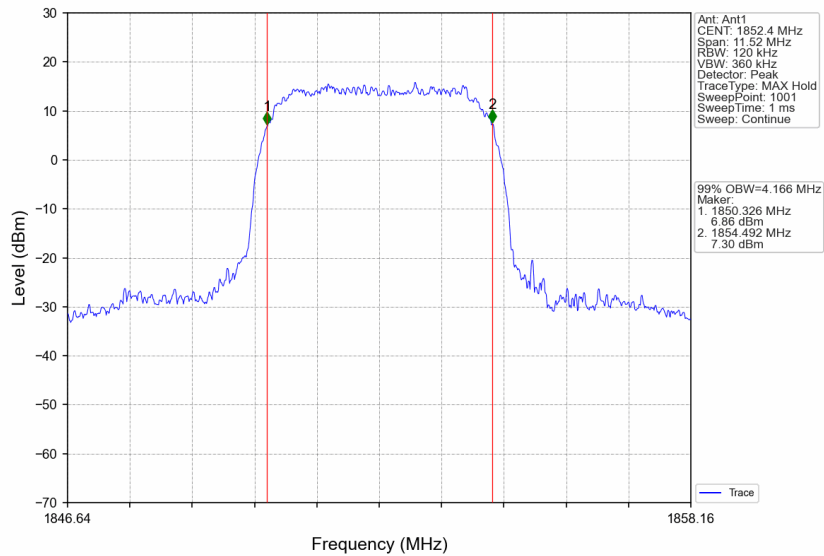
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band II_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



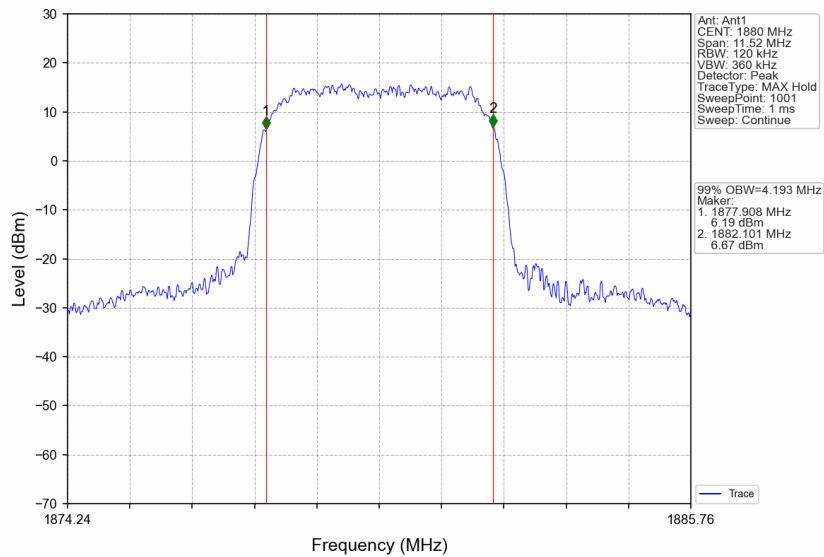
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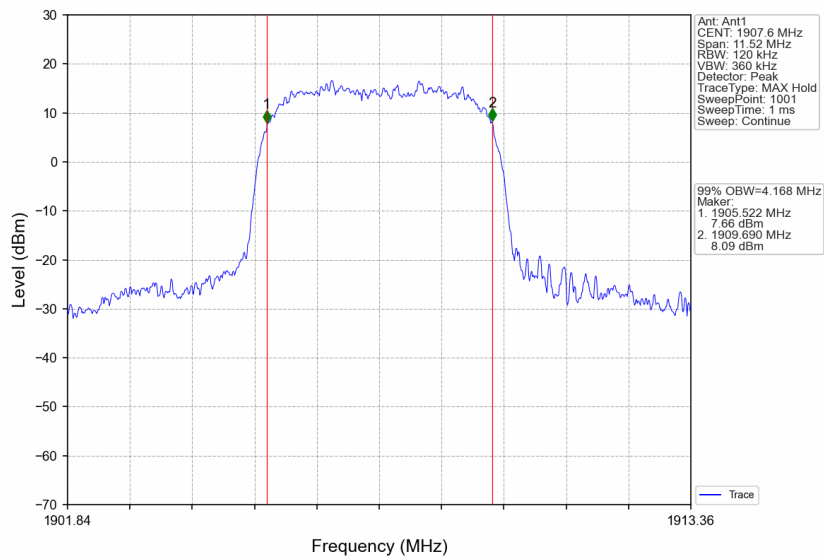
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Band II_HSDPA_MCH_1880MHz_Subtest 1_NTNV



Band II_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

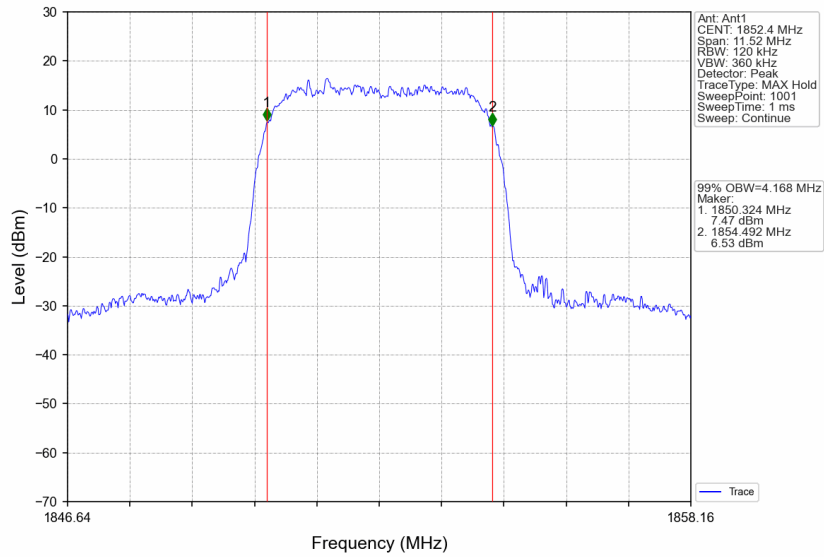


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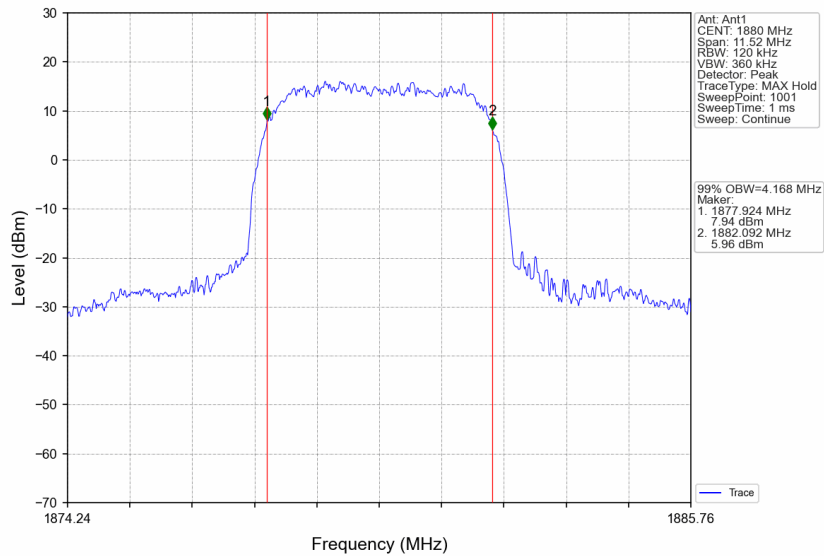
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Band II_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band II_HSUPA_MCH_1880MHz_Subtest 1_NTNV

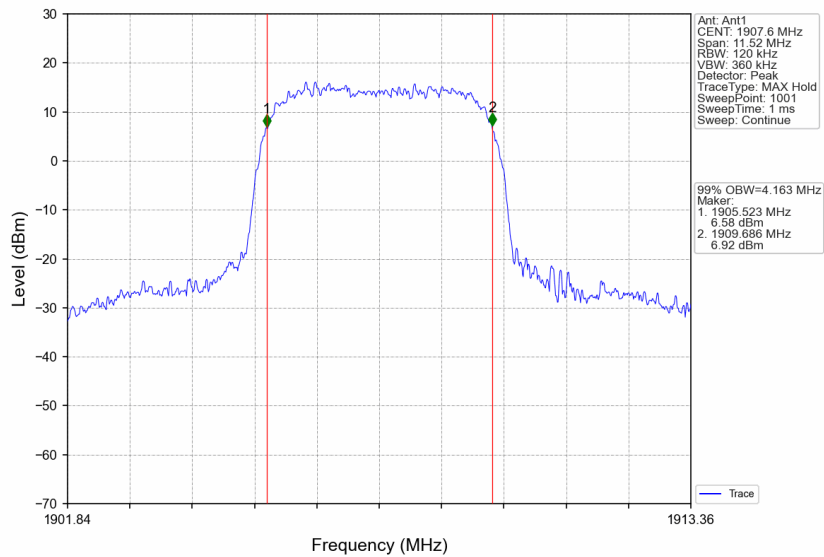


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Band II_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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Rev.: 01

Page: 15 of 39

4.2 Band II_XDB

4.2.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.736	/	Pass
			1880	4.724	/	Pass
			1907.6	4.717	/	Pass
	HSDPA	Subtest 1	1852.4	4.743	/	Pass
			1880	4.753	/	Pass
			1907.6	4.715	/	Pass
	HSUPA	Subtest 1	1852.4	4.719	/	Pass
			1880	4.755	/	Pass
			1907.6	4.730	/	Pass



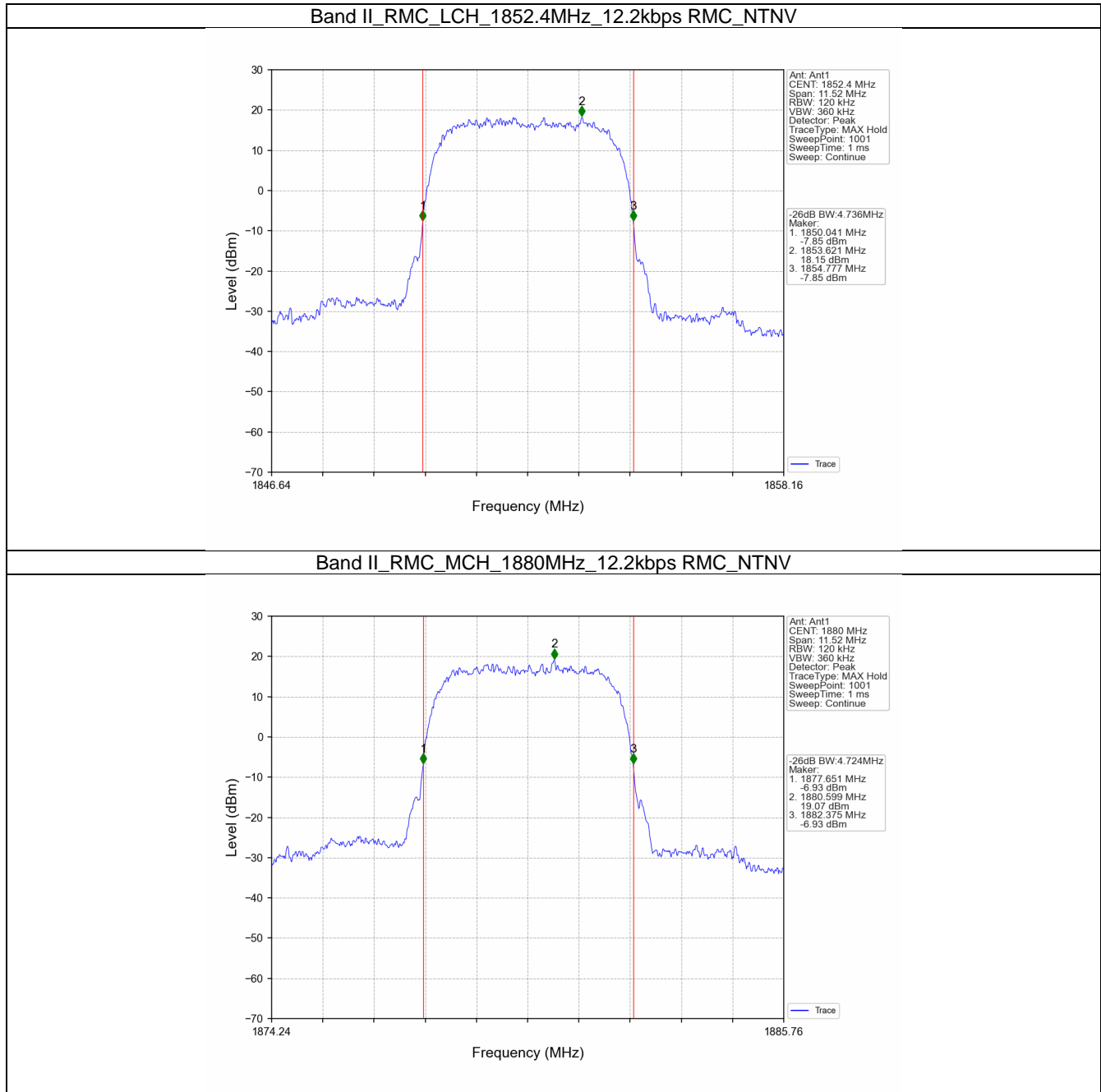
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4.2.2 Test Graph

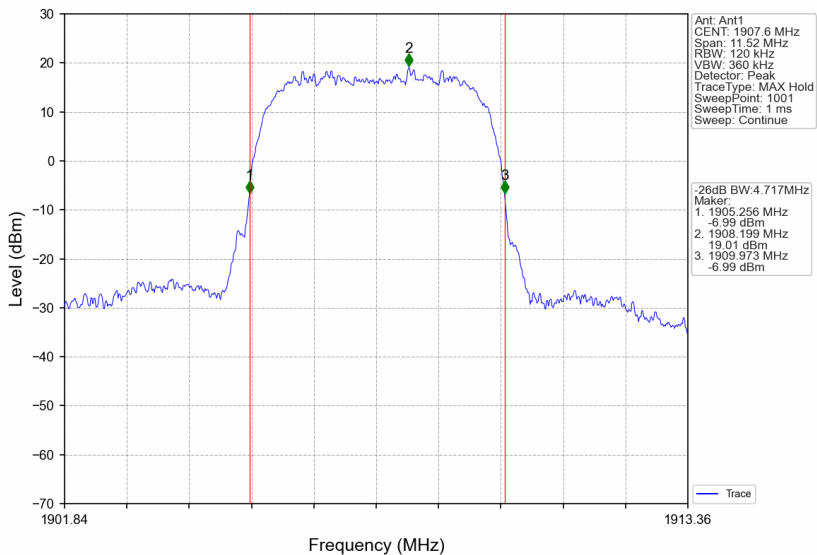


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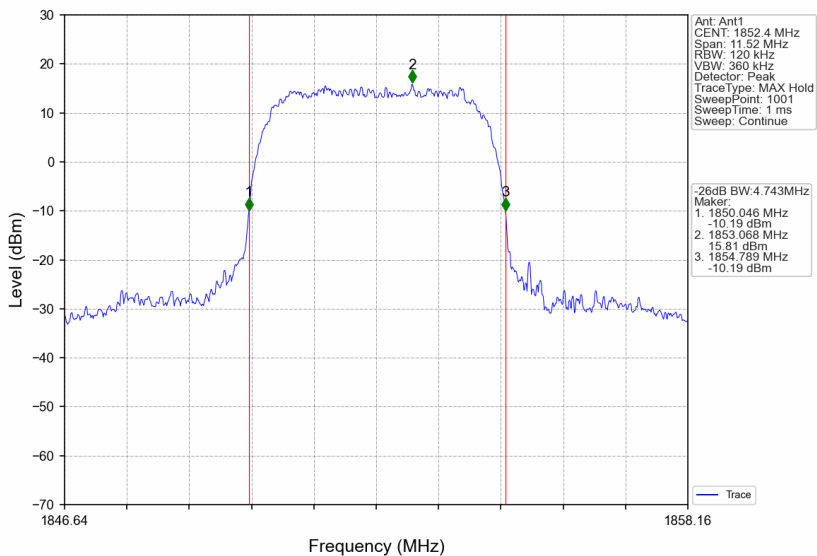
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band II_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

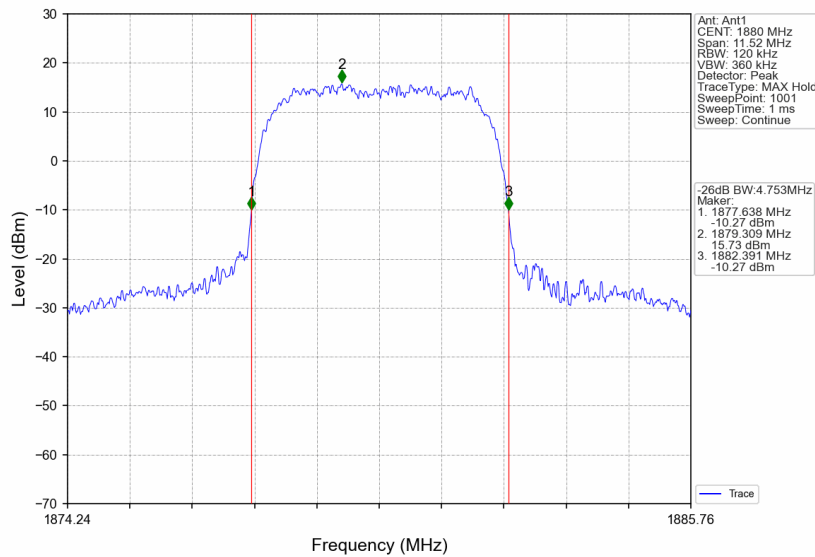


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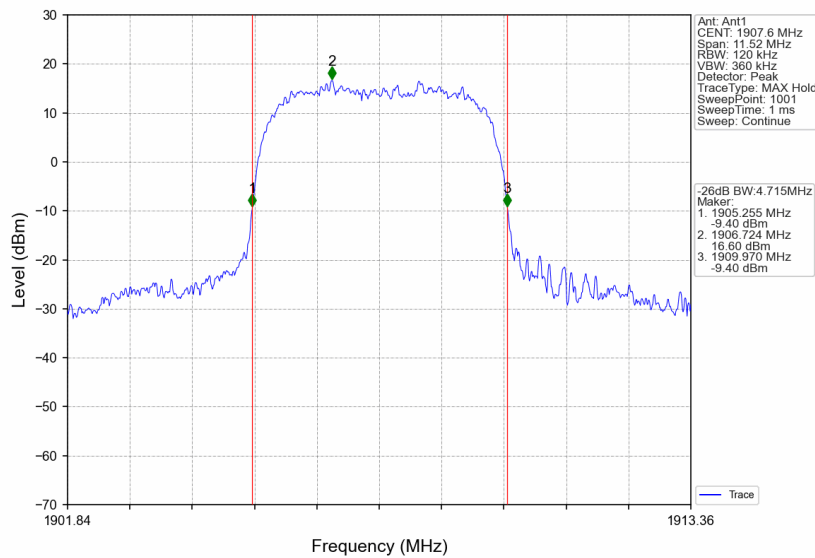
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Band II_HSDPA_MCH_1880MHz_Subtest 1_NTNV



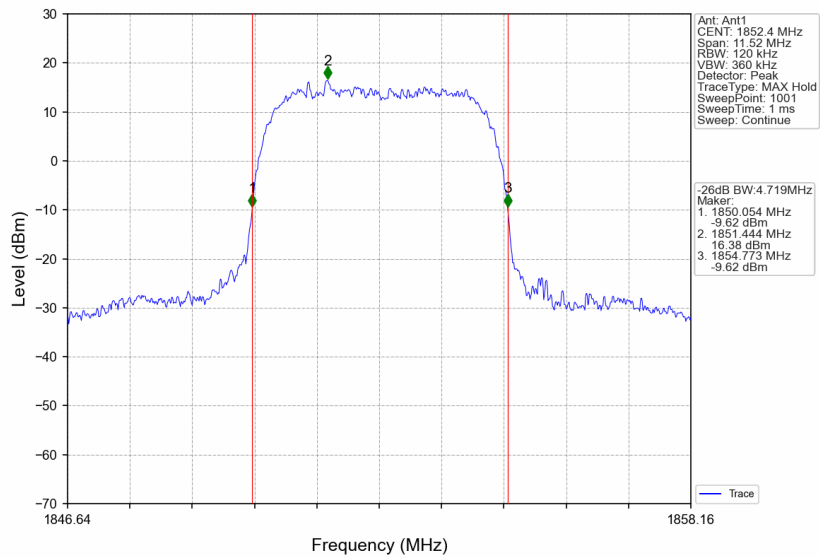
Band II_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



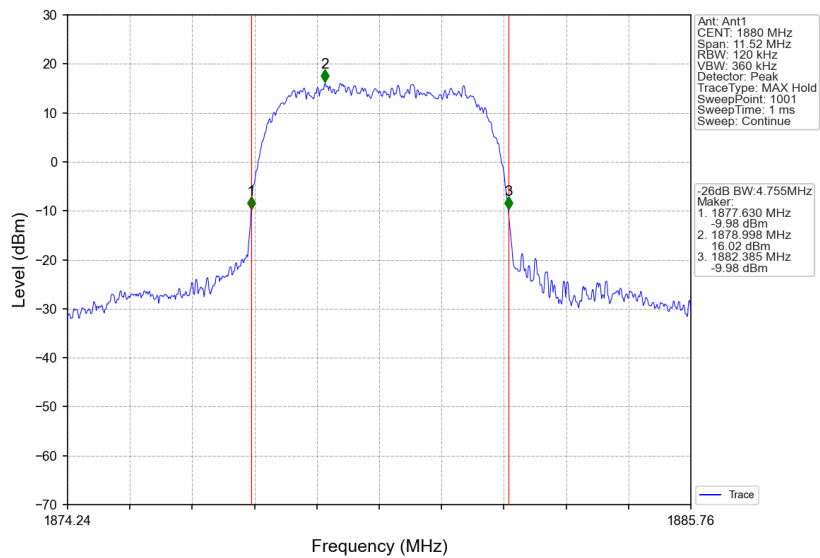
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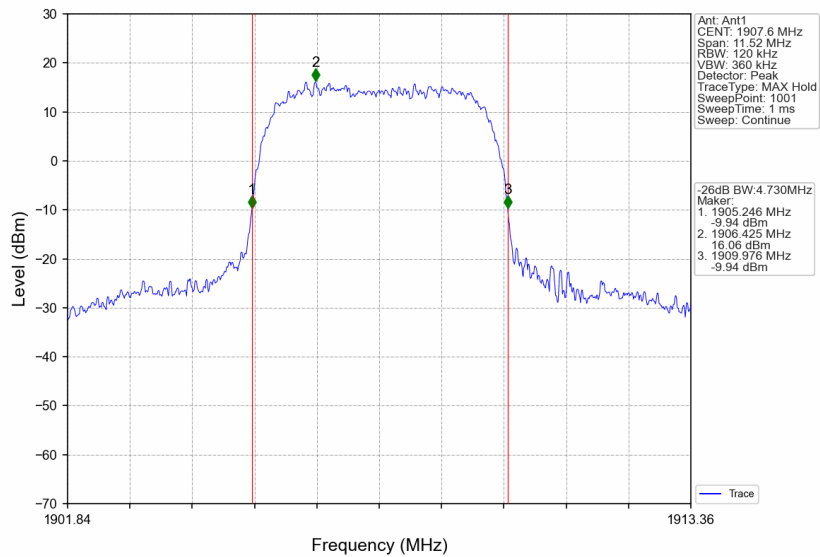


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Band II_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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5. Peak-Average Ratio

5.1 Band II

5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.13	<=13	Pass
			1880	3.17	<=13	Pass
			1907.6	3.17	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.82	<=13	Pass
			1880	5.77	<=13	Pass
			1907.6	5.93	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.82	<=13	Pass
			1880	5.83	<=13	Pass
			1907.6	5.76	<=13	Pass



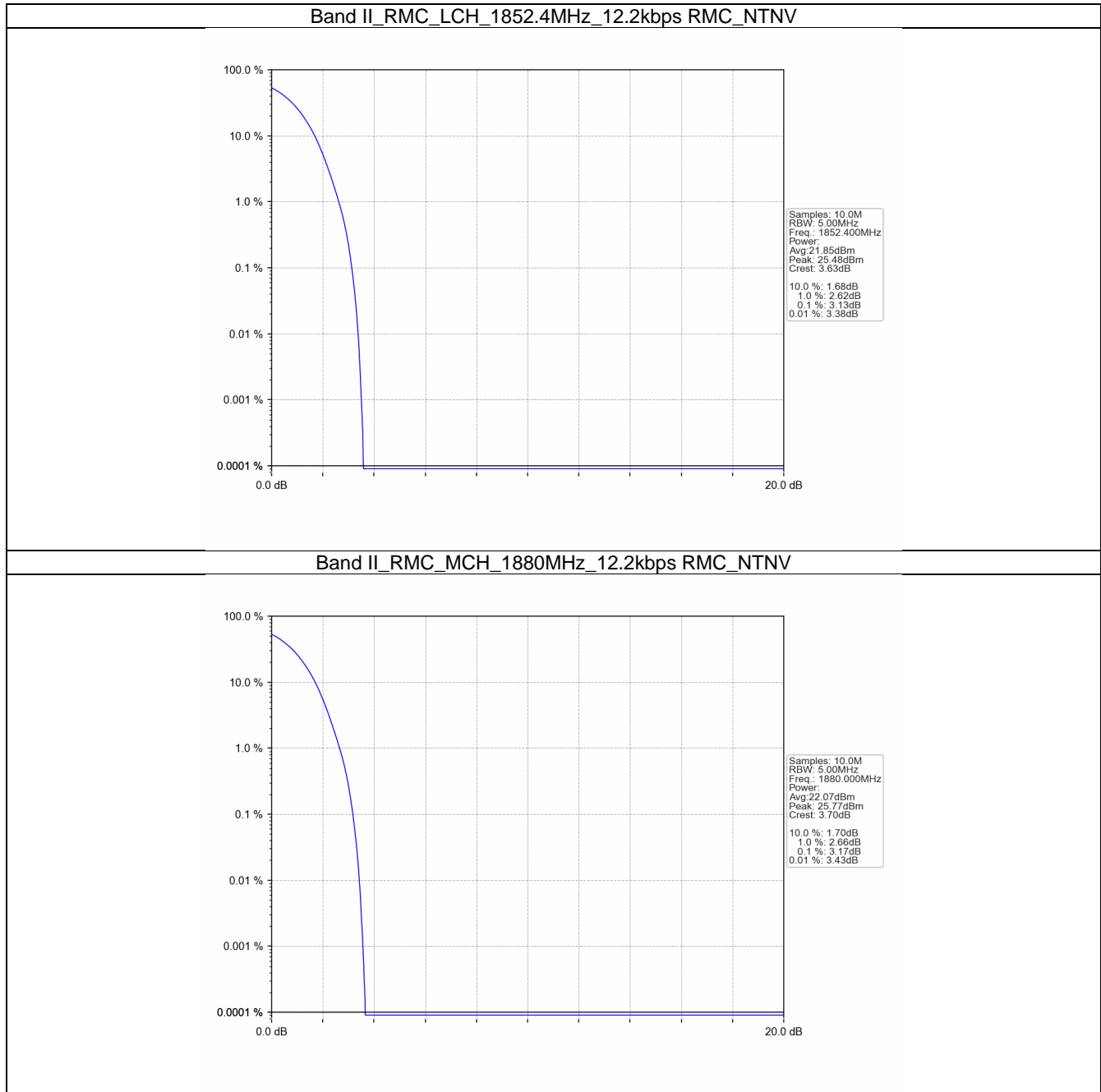
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5.1.2 Test Graph

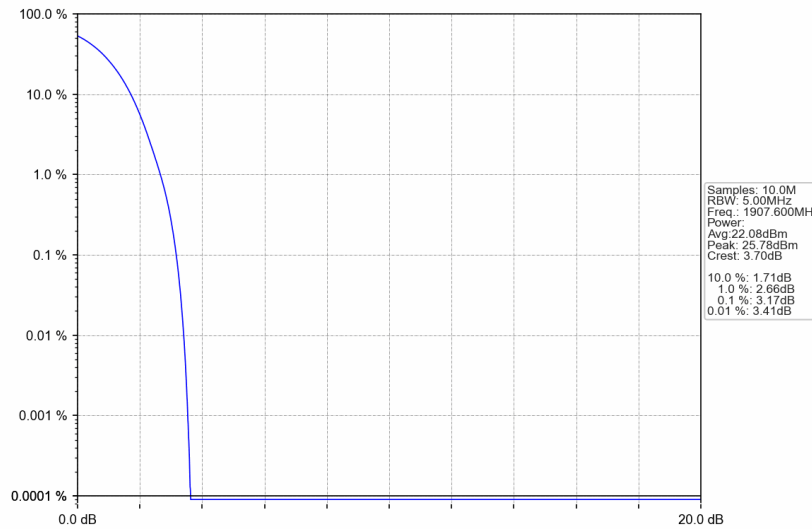


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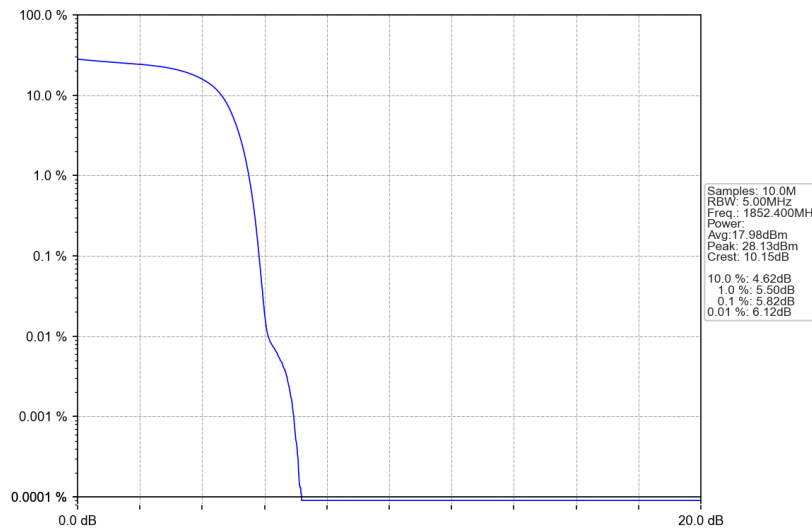
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band II_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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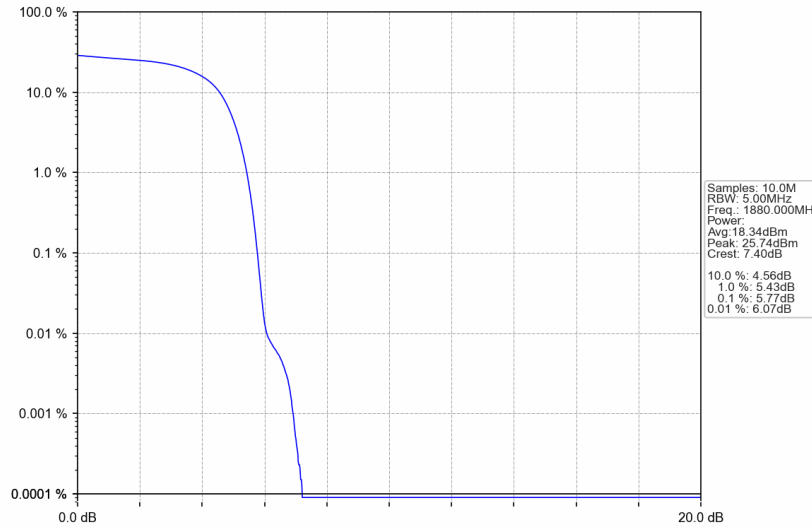
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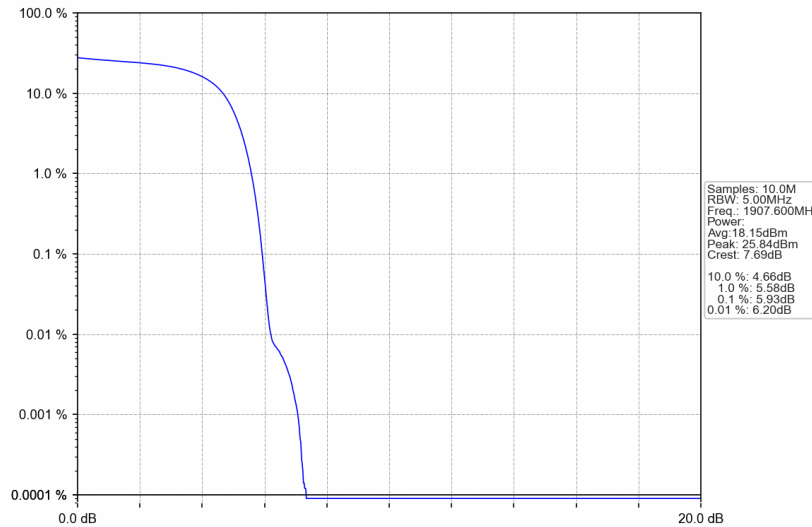
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Band II_HSDPA_MCH_1880MHz_Subtest 1_NTNV



Band II_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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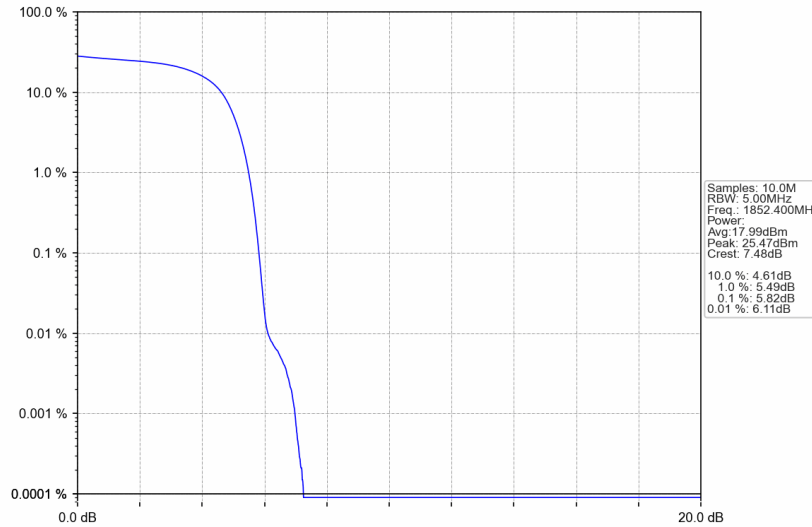
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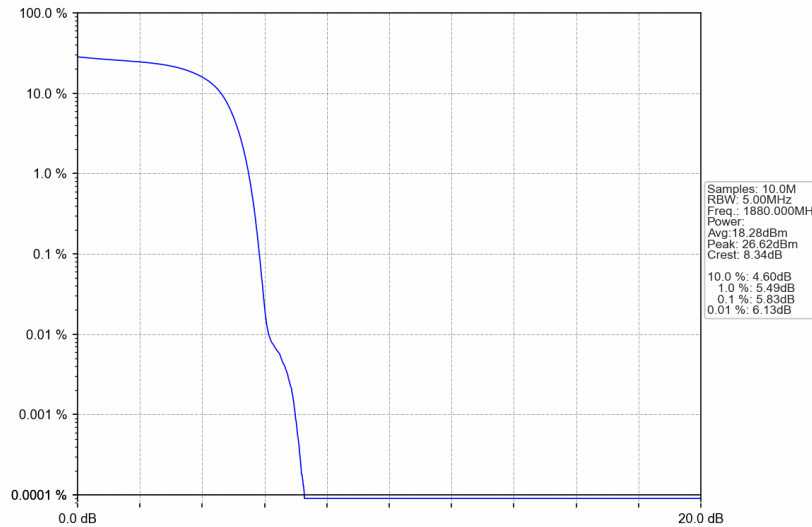
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Band II_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band II_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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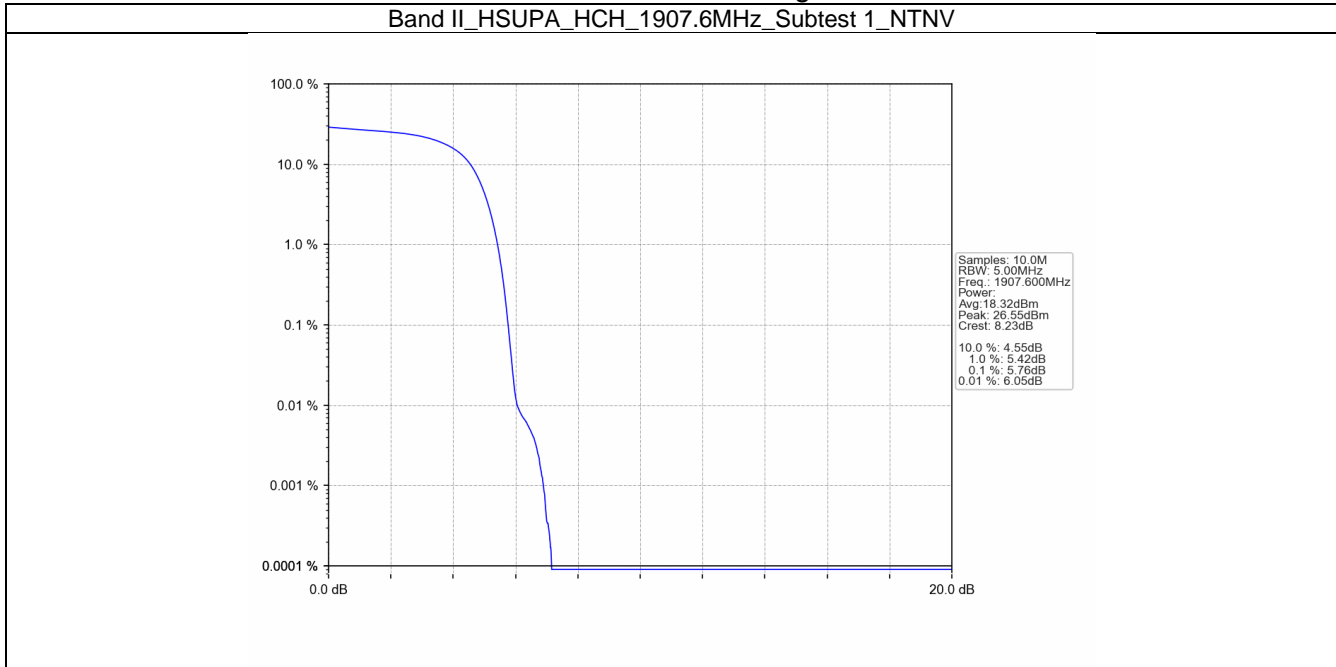
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Report No.: SEWM2311000456RG01
 Rev.: 01
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6. Spurious Emission & Band Edges

6.1 Band II

6.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	



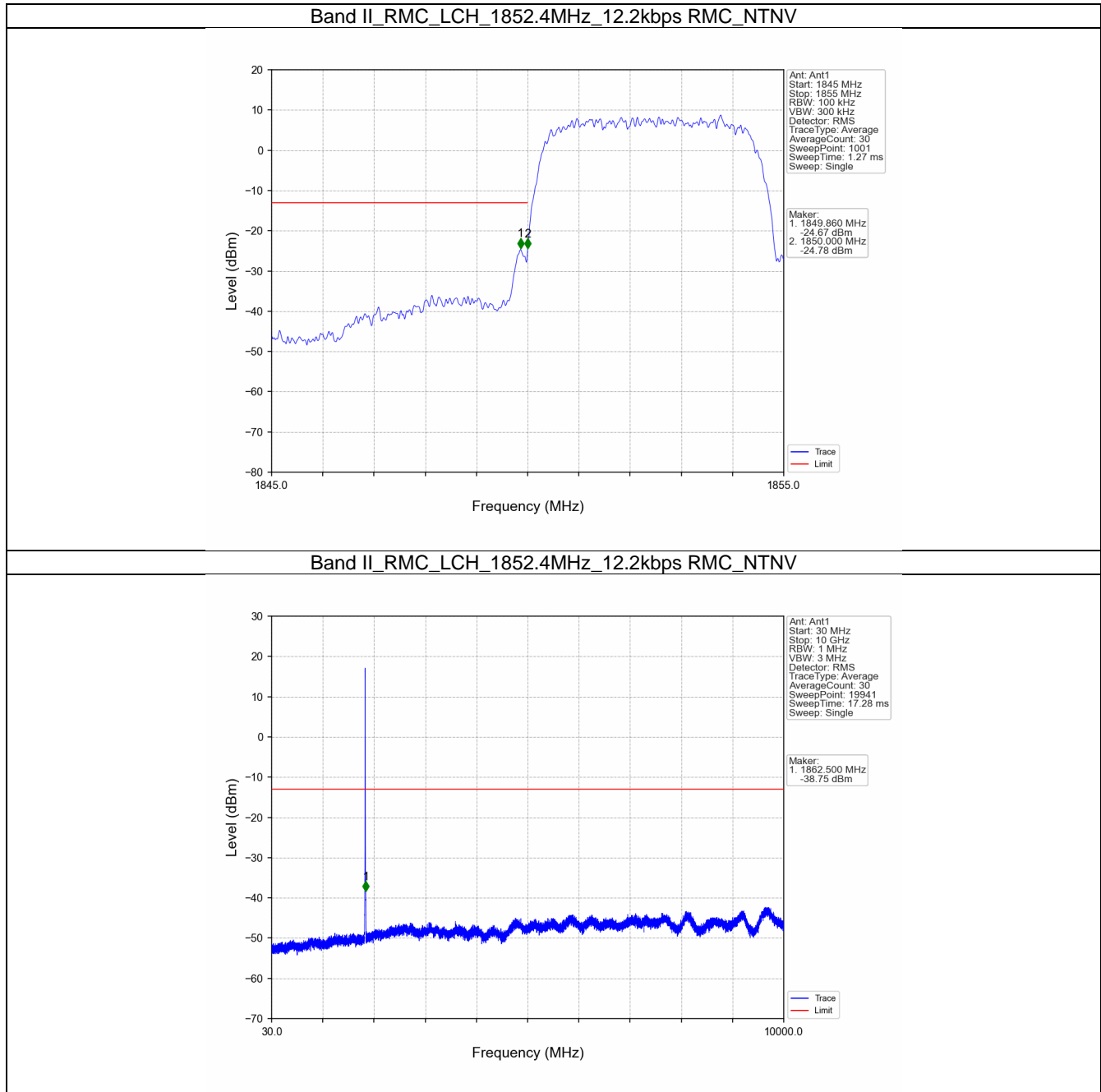
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6.1.2 Test Graph

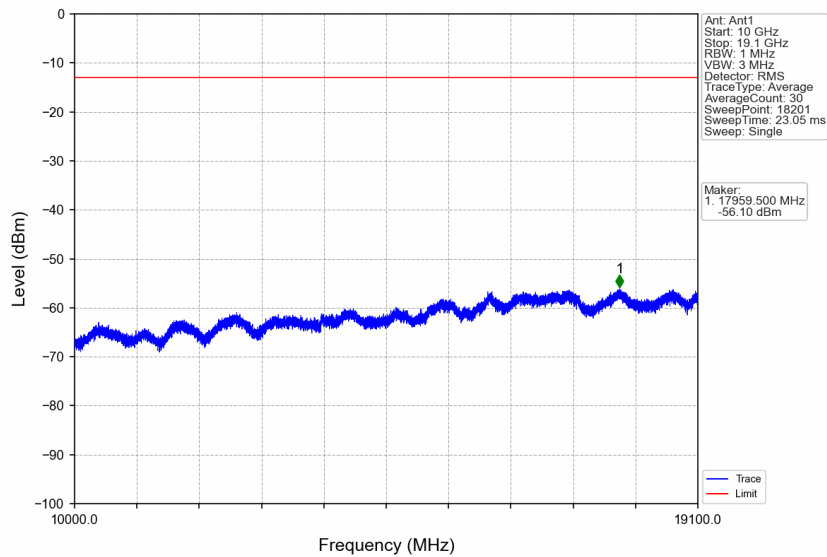


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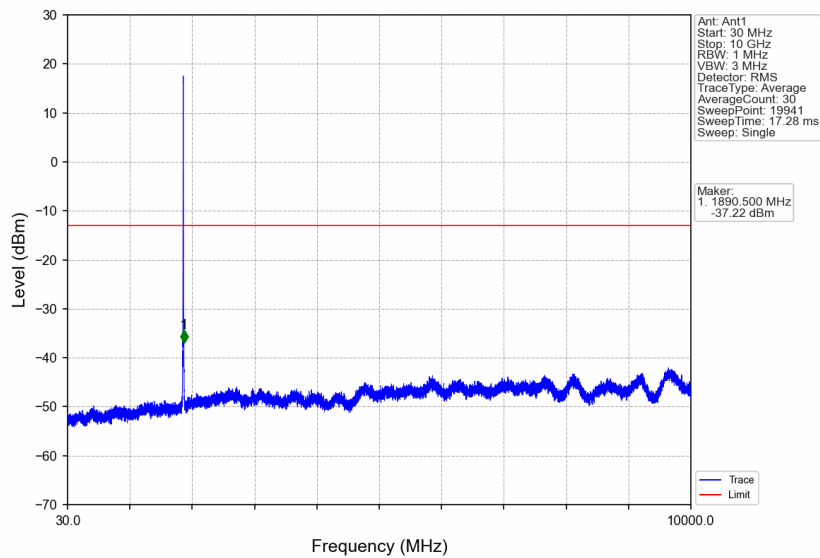
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Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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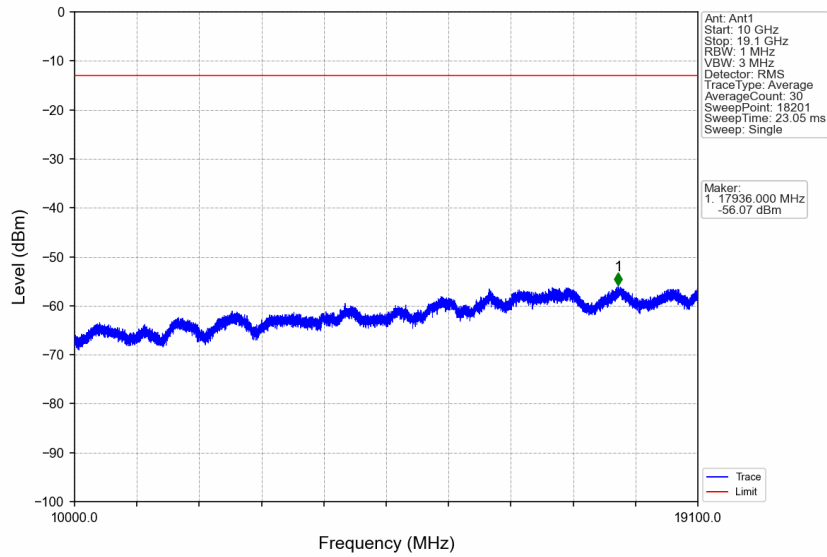
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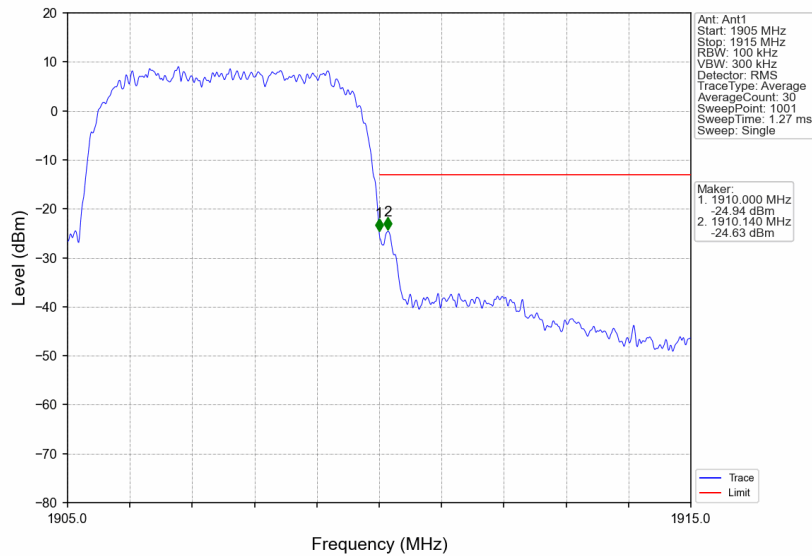
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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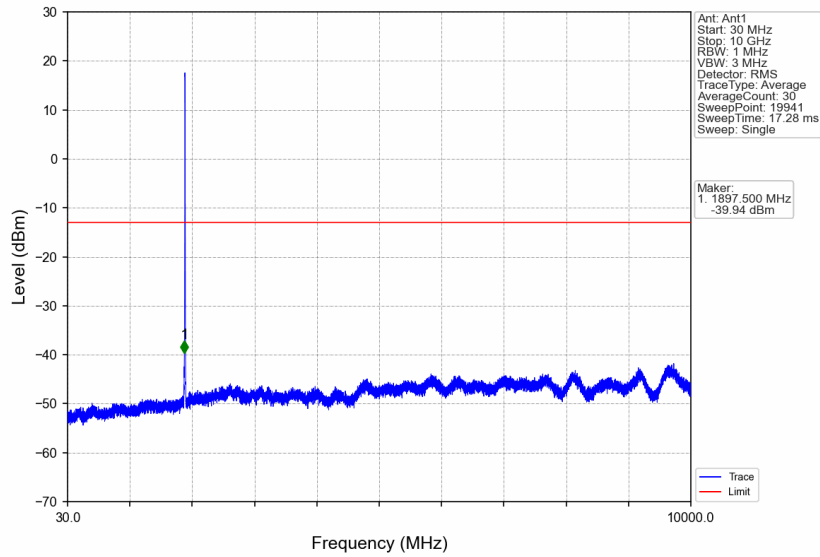
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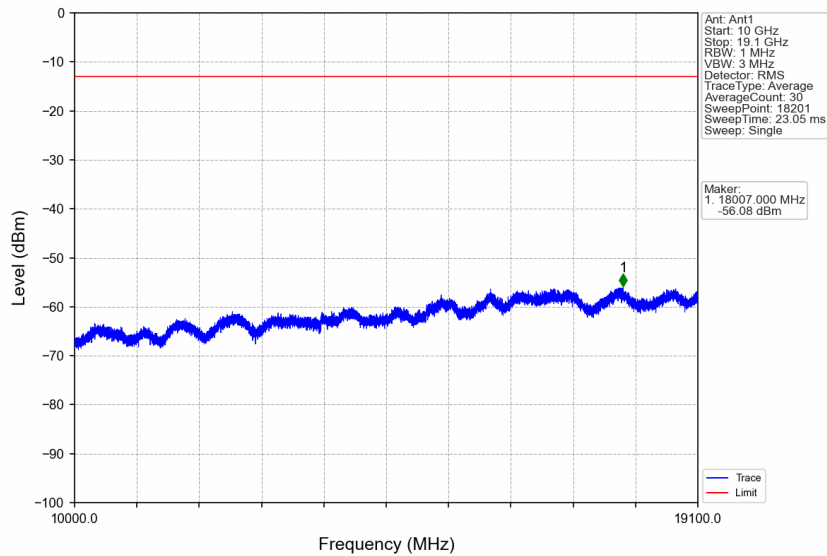
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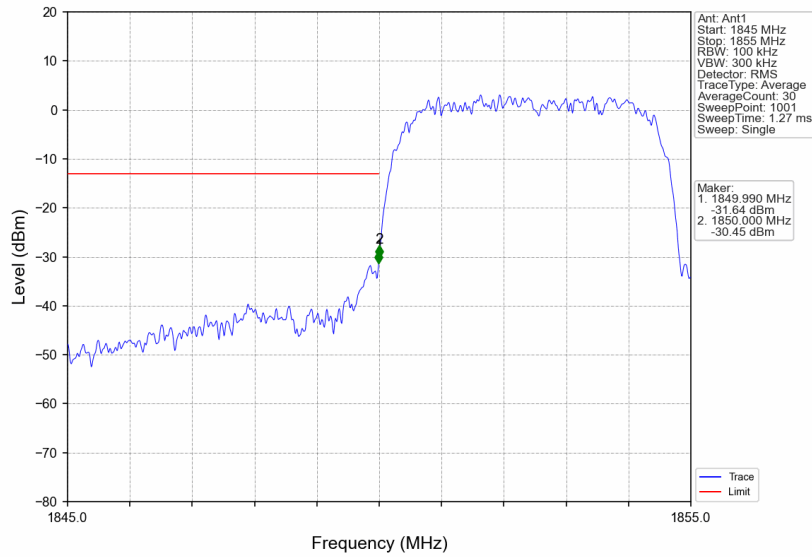
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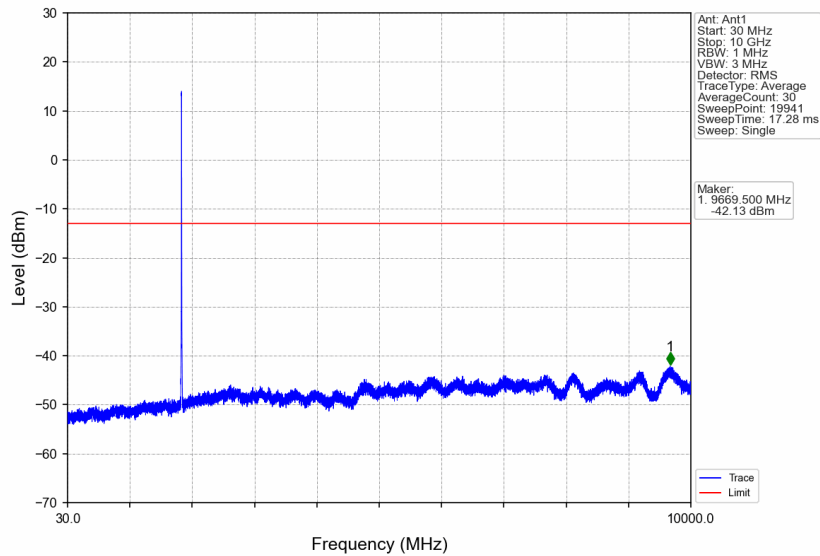
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Band II_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



Band II_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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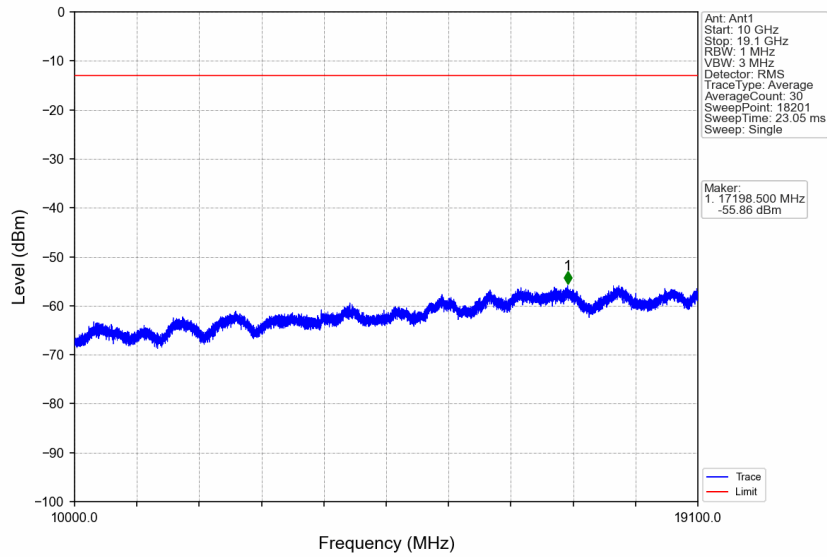
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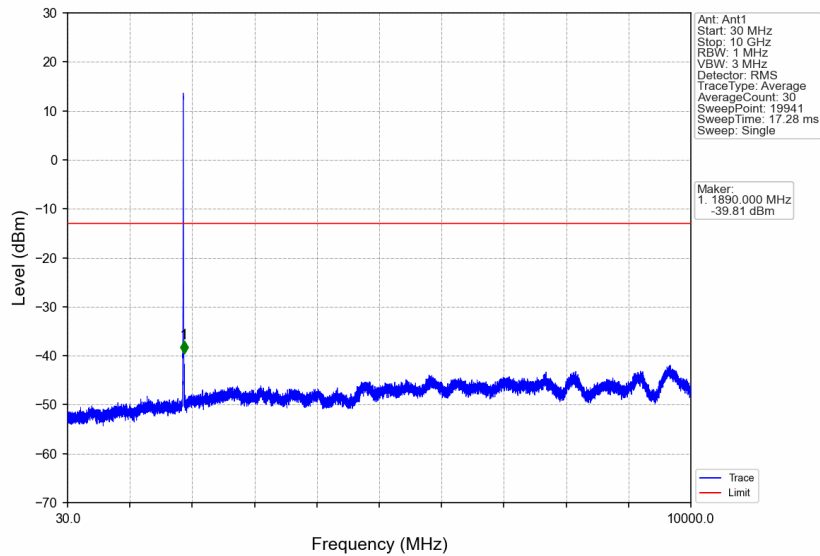
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Band II_HSDPA_MCH_1880MHz_Subtest 1_NTNV



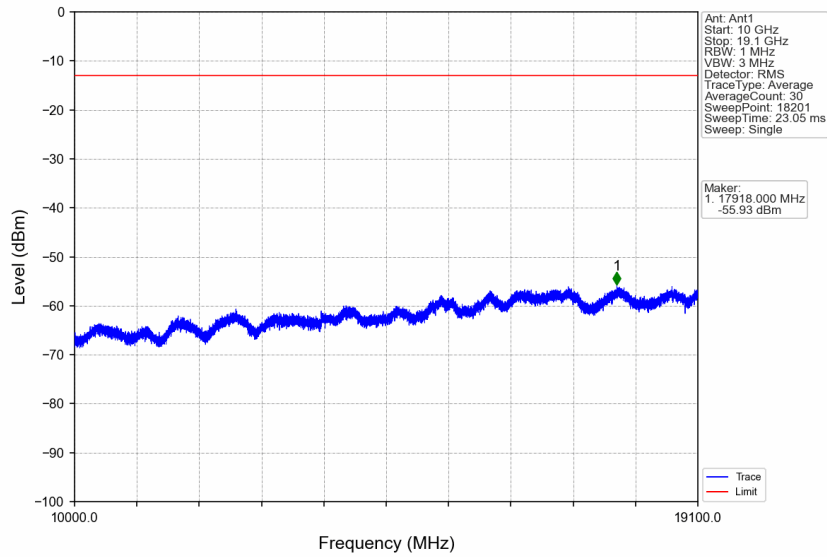
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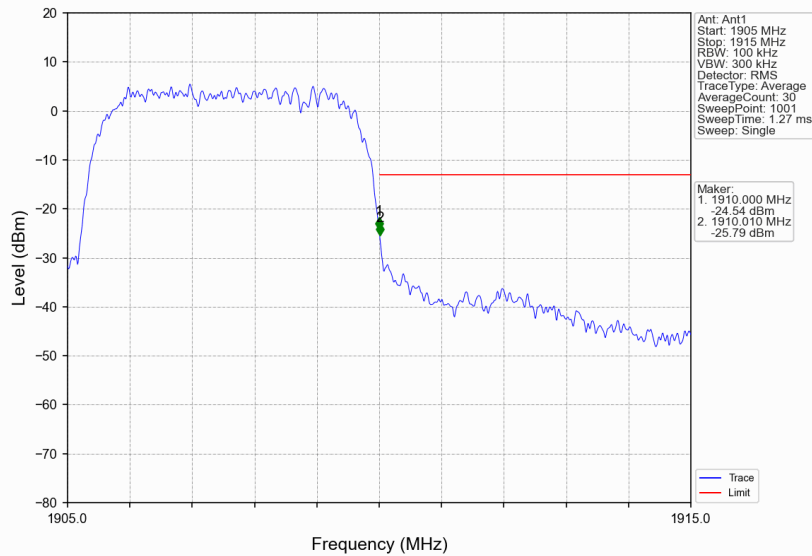
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Band II_HSDPA_MCH_1880MHz_Subtest 1_NTNV



Band II_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

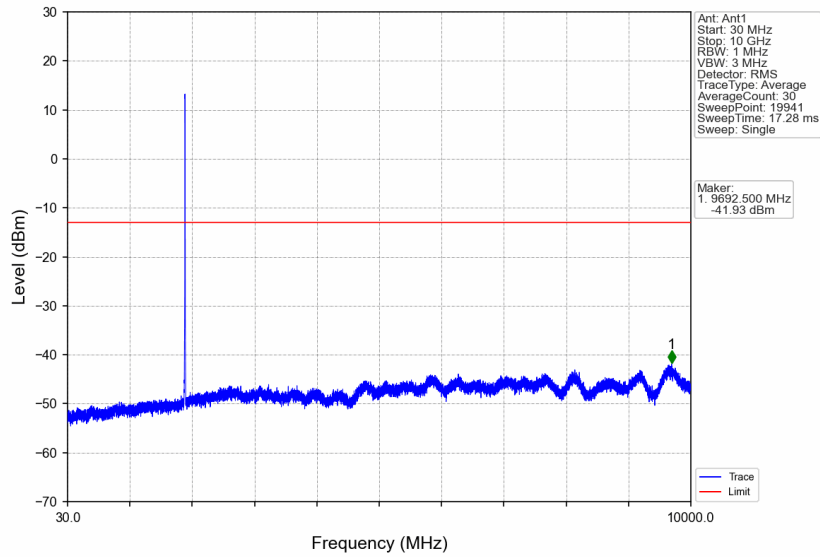


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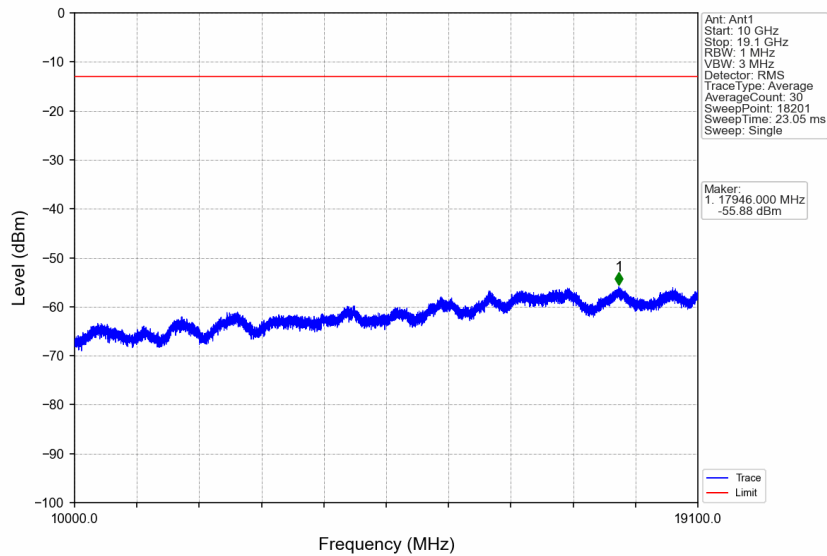
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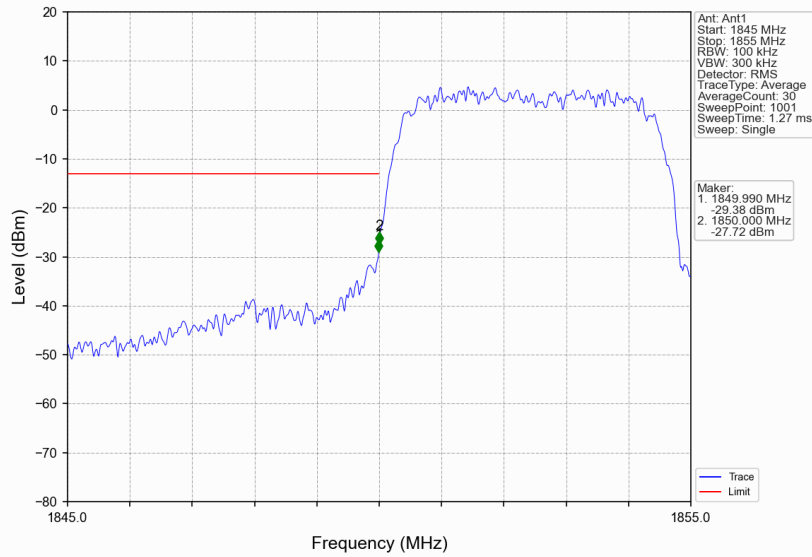
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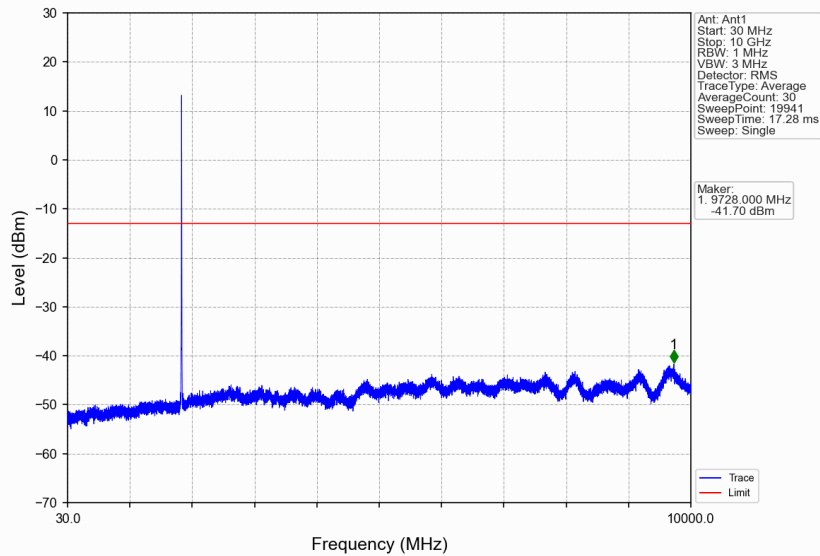
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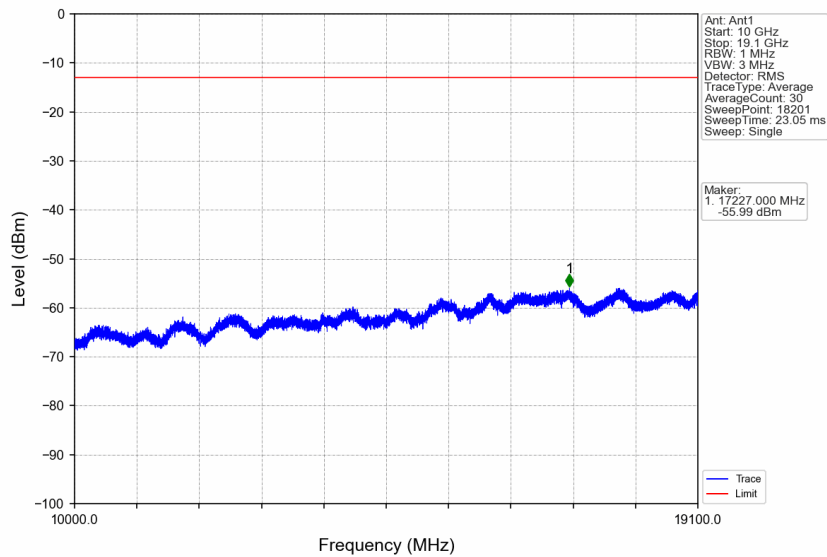
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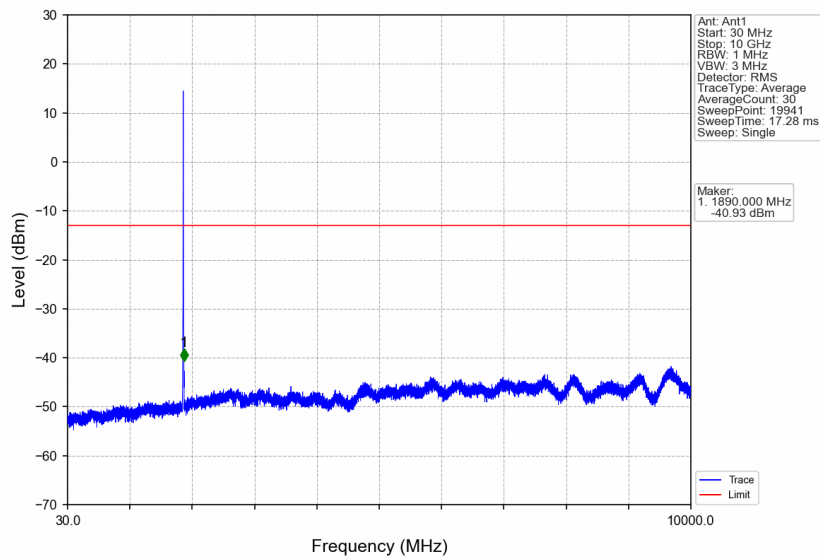
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Band II_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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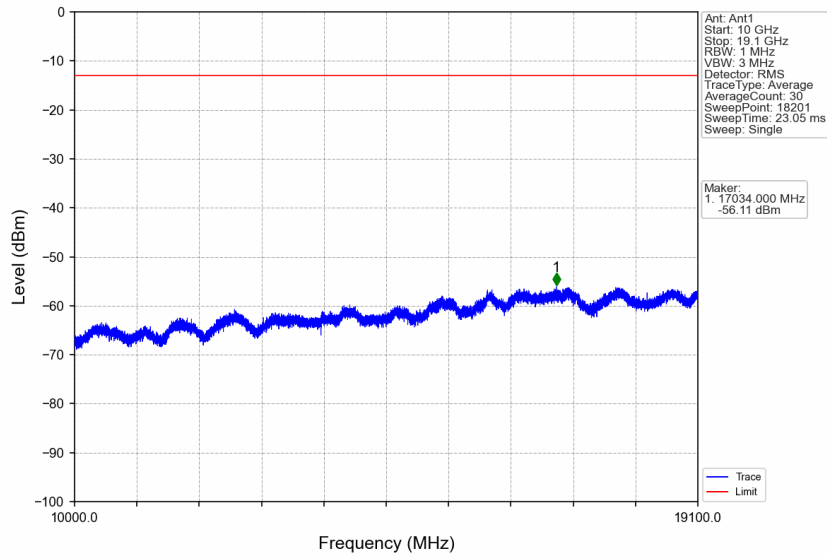
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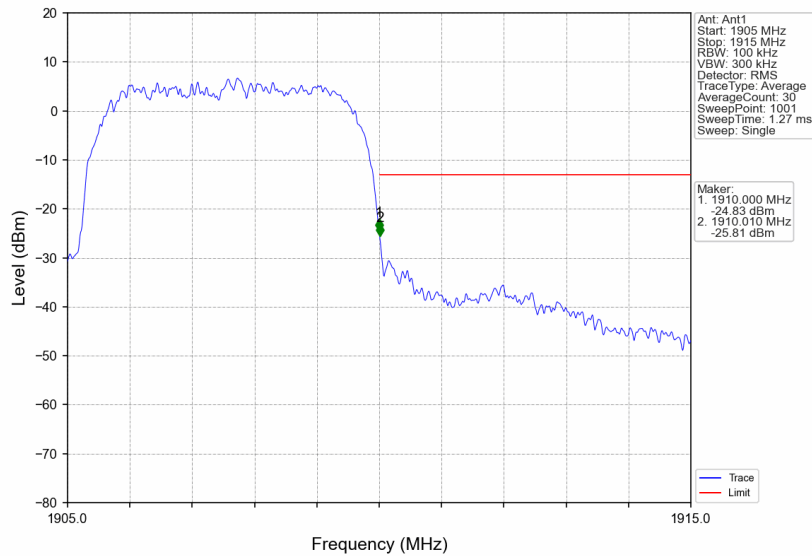
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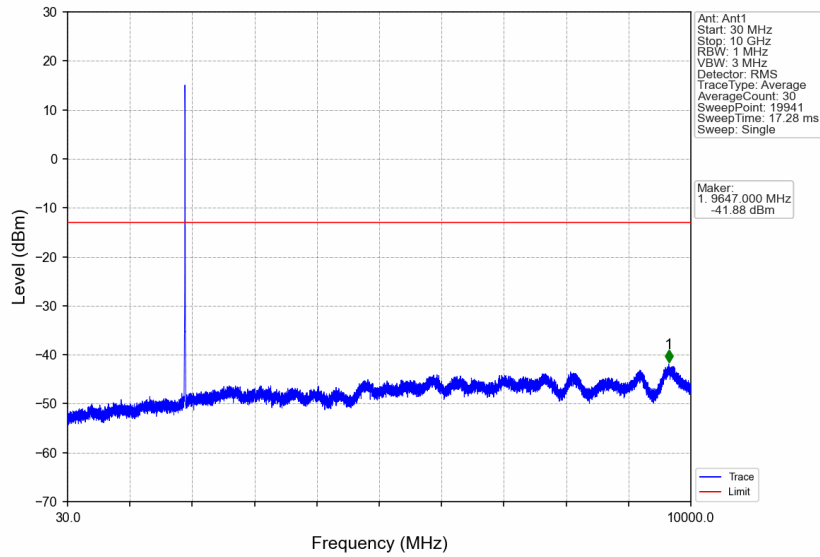
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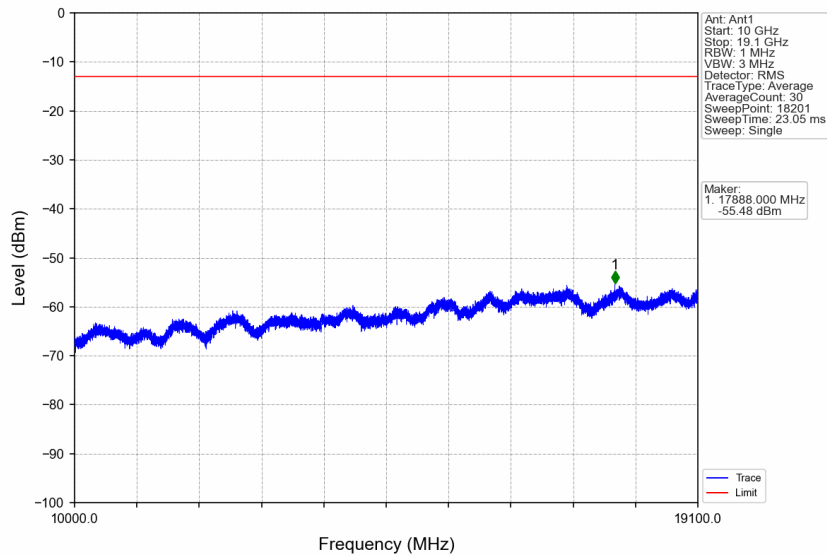
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