Appendix B.3 for KSEM2108001480CR-WCDMA-Band 2

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band2_EIRP

1.1.1 Test Result

Band: 2								
ENV	Mode		Frequency (MHz)	Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	23.09	-5.40	17.69	<=33.01	Pass
			1880	22.95	-5.40	17.55	<=33.01	Pass
			1907.6	22.71	-5.40	17.31	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	21.18	-5.40	15.78	<=33.01	Pass
		Subtest 2	1852.4	21.34	-5.40	15.94	<=33.01	Pass
		Subtest 3	1852.4	21.39	-5.40	15.99	<=33.01	Pass
		Subtest 4	1852.4	21.37	-5.40	15.97	<=33.01	Pass
		Subtest 1	1880	21.55	-5.40	16.15	<=33.01	Pass
		Subtest 2	1880	21.56	-5.40	16.16	<=33.01	Pass
		Subtest 3	1880	21.57	-5.40	16.17	<=33.01	Pass
		Subtest 4	1880	21.57	-5.40	16.17	<=33.01	Pass
		Subtest 1	1907.6	21.39	-5.40	15.99	<=33.01	Pass
		Subtest 2	1907.6	21.29	-5.40	15.89	<=33.01	Pass
		Subtest 3	1907.6	21.31	-5.40	15.91	<=33.01	Pass
		Subtest 4	1907.6	21.31	-5.40	15.91	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	19.24	-5.40	13.84	<=33.01	Pass
		Subtest 2	1852.4	18.92	-5.40	13.52	<=33.01	Pass
		Subtest 3	1852.4	18.98	-5.40	13.58	<=33.01	Pass
		Subtest 4	1852.4	19.46	-5.40	14.06	<=33.01	Pass
		Subtest 5	1852.4	18.97	-5.40	13.57	<=33.01	Pass
		Subtest 1	1880	19.68	-5.40	14.28	<=33.01	Pass
		Subtest 2	1880	19.21	-5.40	13.81	<=33.01	Pass
		Subtest 3	1880	19.67	-5.40	14.27	<=33.01	Pass
		Subtest 4	1880	19.16	-5.40	13.76	<=33.01	Pass
		Subtest 5	1880	19.68	-5.40	14.28	<=33.01	Pass
		Subtest 1	1907.6	19.25	-5.40	13.85	<=33.01	Pass
		Subtest 2	1907.6	18.96	-5.40	13.56	<=33.01	Pass
		Subtest 3	1907.6	19.43	-5.40	14.03	<=33.01	Pass
		Subtest 4	1907.6	18.93	-5.40	13.53	<=33.01	Pass
		Subtest 5	1907.6	19.42	-5.40	14.02	<=33.01	Pass
Note1: EIRP=Power+Antenna Gain								

Remark1:
For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,
ERP [dBm] = Power [dBm] + Gain [dBd]
EIRP [dBm] = Power [dBm] + Gain [dBi]

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2. Frequency Stability

2.1 Band2

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	3.27	-2.26	-0.00	-2.5 to 2.5	Pass
			3.85	-2.62	-0.00	-2.5 to 2.5	Pass
			4.43	-2.67	-0.00	-2.5 to 2.5	Pass
		-30	3.85	-2.92	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-2.57	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-3.44	-0.00	-2.5 to 2.5	Pass
		0	3.85	-3.74	-0.00	-2.5 to 2.5	Pass
		10	3.85	-3.98	-0.00	-2.5 to 2.5	Pass
		30	3.85	-3.35	-0.00	-2.5 to 2.5	Pass
		40	3.85	-3.93	-0.00	-2.5 to 2.5	Pass
		50	3.85	-4.28	-0.00	-2.5 to 2.5	Pass
	1880	20	3.27	-2.52	-0.00	-2.5 to 2.5	Pass
			3.85	-2.93	-0.00	-2.5 to 2.5	Pass
			4.43	-3.24	-0.00	-2.5 to 2.5	Pass
		-30	3.85	-2.65	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-2.52	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-2.62	-0.00	-2.5 to 2.5	Pass
		0	3.85	-2.30	-0.00	-2.5 to 2.5	Pass
		10	3.85	-2.87	-0.00	-2.5 to 2.5	Pass
		30	3.85	-1.70	-0.00	-2.5 to 2.5	Pass
		40	3.85	-2.25	-0.00	-2.5 to 2.5	Pass
		50	3.85	-2.54	-0.00	-2.5 to 2.5	Pass
	1907.6	20	3.27	-2.20	-0.00	-2.5 to 2.5	Pass
			3.85	-2.24	-0.00	-2.5 to 2.5	Pass
			4.43	-1.92	-0.00	-2.5 to 2.5	Pass
		-30	3.85	-1.93	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-3.08	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-2.30	-0.00	-2.5 to 2.5	Pass
		0	3.85	-2.38	-0.00	-2.5 to 2.5	Pass
		10	3.85	-2.91	-0.00	-2.5 to 2.5	Pass
		30	3.85	-2.34	-0.00	-2.5 to 2.5	Pass
		40	3.85	-2.45	-0.00	-2.5 to 2.5	Pass
		50	3.85	-2.73	-0.00	-2.5 to 2.5	Pass
HSDPA	1852.4	20	3.27	-13.40	-0.01	-2.5 to 2.5	Pass
			3.85	-14.74	-0.01	-2.5 to 2.5	Pass
			4.43	-14.57	-0.01	-2.5 to 2.5	Pass
		-30	3.85	-14.83	-0.01	-2.5 to 2.5	Pass
		-20	3.85	-15.36	-0.01	-2.5 to 2.5	Pass

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		-10	3.85	-15.39	-0.01	-2.5 to 2.5	Pass
		0	3.85	-14.96	-0.01	-2.5 to 2.5	Pass
		10	3.85	-15.40	-0.01	-2.5 to 2.5	Pass
		30	3.85	-15.51	-0.01	-2.5 to 2.5	Pass
		40	3.85	-15.17	-0.01	-2.5 to 2.5	Pass
		50	3.85	-15.94	-0.01	-2.5 to 2.5	Pass
	1880	20	3.27	-11.48	-0.01	-2.5 to 2.5	Pass
			3.85	-10.68	-0.01	-2.5 to 2.5	Pass
			4.43	-11.34	-0.01	-2.5 to 2.5	Pass
		-30	3.85	-11.78	-0.01	-2.5 to 2.5	Pass
		-20	3.85	-11.71	-0.01	-2.5 to 2.5	Pass
		-10	3.85	-11.54	-0.01	-2.5 to 2.5	Pass
		0	3.85	-11.21	-0.01	-2.5 to 2.5	Pass
		10	3.85	-11.89	-0.01	-2.5 to 2.5	Pass
		30	3.85	-11.64	-0.01	-2.5 to 2.5	Pass
		40	3.85	-11.22	-0.01	-2.5 to 2.5	Pass
		50	3.85	-11.72	-0.01	-2.5 to 2.5	Pass
	1907.6	20	3.27	-15.15	-0.01	-2.5 to 2.5	Pass
			3.85	-14.98	-0.01	-2.5 to 2.5	Pass
			4.43	-14.46	-0.01	-2.5 to 2.5	Pass
		-30	3.85	-15.48	-0.01	-2.5 to 2.5	Pass
		-20	3.85	-14.98	-0.01	-2.5 to 2.5	Pass
		-10	3.85	-14.72	-0.01	-2.5 to 2.5	Pass
		0	3.85	-14.70	-0.01	-2.5 to 2.5	Pass
		10	3.85	-14.66	-0.01	-2.5 to 2.5	Pass
		30	3.85	-14.67	-0.01	-2.5 to 2.5	Pass
		40	3.85	-15.44	-0.01	-2.5 to 2.5	Pass
		50	3.85	-14.57	-0.01	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.27	13.08	0.01	-2.5 to 2.5	Pass
			3.85	12.60	0.01	-2.5 to 2.5	Pass
			4.43	12.95	0.01	-2.5 to 2.5	Pass
		-30	3.85	17.98	0.01	-2.5 to 2.5	Pass
		-20	3.85	11.74	0.01	-2.5 to 2.5	Pass
		-10	3.85	13.30	0.01	-2.5 to 2.5	Pass
		0	3.85	19.18	0.01	-2.5 to 2.5	Pass
		10	3.85	13.93	0.01	-2.5 to 2.5	Pass
		30	3.85	12.32	0.01	-2.5 to 2.5	Pass
		40	3.85	17.82	0.01	-2.5 to 2.5	Pass
		50	3.85	12.15	0.01	-2.5 to 2.5	Pass
	1880	20	3.27	16.86	0.01	-2.5 to 2.5	Pass
			3.85	16.51	0.01	-2.5 to 2.5	Pass
			4.43	11.42	0.01	-2.5 to 2.5	Pass
		-30	3.85	12.91	0.01	-2.5 to 2.5	Pass
		-20	3.85	17.32	0.01	-2.5 to 2.5	Pass
		-10	3.85	11.92	0.01	-2.5 to 2.5	Pass
		0	3.85	12.79	0.01	-2.5 to 2.5	Pass
		10	3.85	17.09	0.01	-2.5 to 2.5	Pass
		30	3.85	11.39	0.01	-2.5 to 2.5	Pass

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		40	3.85	11.93	0.01	-2.5 to 2.5	Pass
		50	3.85	17.55	0.01	-2.5 to 2.5	Pass
	1907.6	20	3.27	15.83	0.01	-2.5 to 2.5	Pass
			3.85	16.55	0.01	-2.5 to 2.5	Pass
			4.43	11.79	0.01	-2.5 to 2.5	Pass
		-30	3.85	11.16	0.01	-2.5 to 2.5	Pass
		-20	3.85	15.80	0.01	-2.5 to 2.5	Pass
		-10	3.85	11.66	0.01	-2.5 to 2.5	Pass
		0	3.85	10.31	0.01	-2.5 to 2.5	Pass
		10	3.85	11.45	0.01	-2.5 to 2.5	Pass
		30	3.85	15.87	0.01	-2.5 to 2.5	Pass
		40	3.85	11.62	0.01	-2.5 to 2.5	Pass
		50	3.85	11.08	0.01	-2.5 to 2.5	Pass

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3. Modulation Characteristics

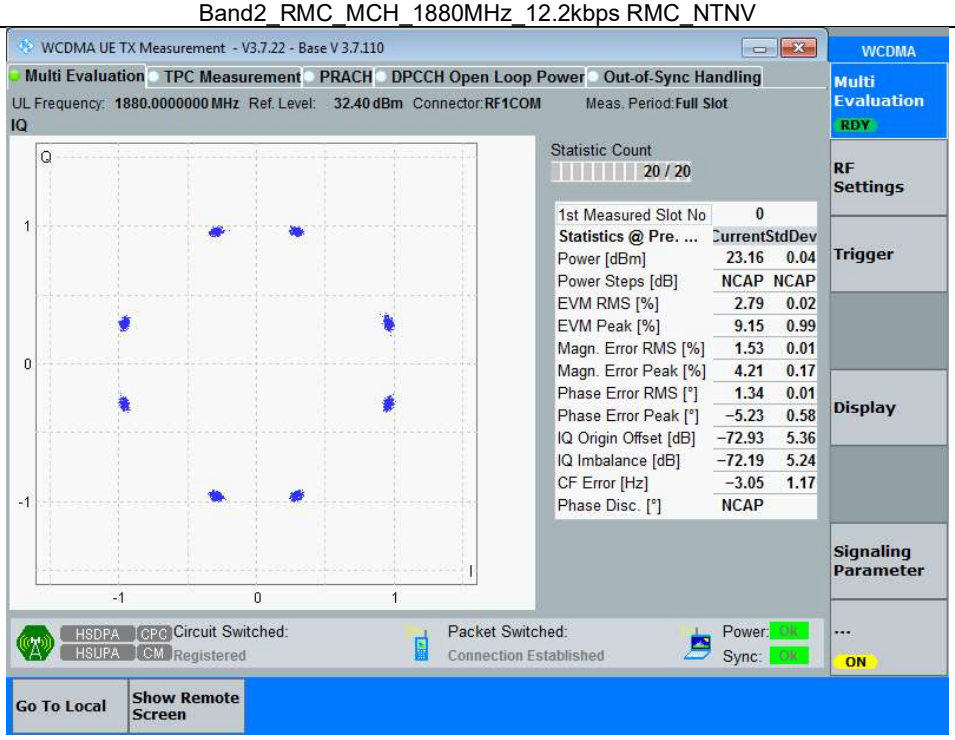
3.1 Band2

3.1.1 Test Result

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

3.1.2 Test Graph

Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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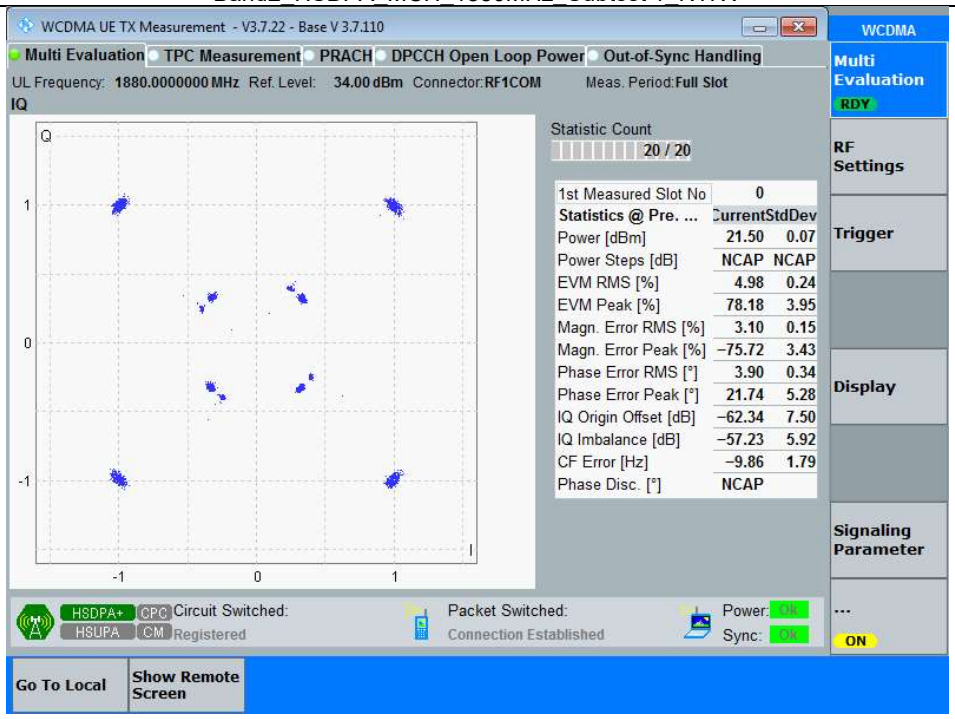
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



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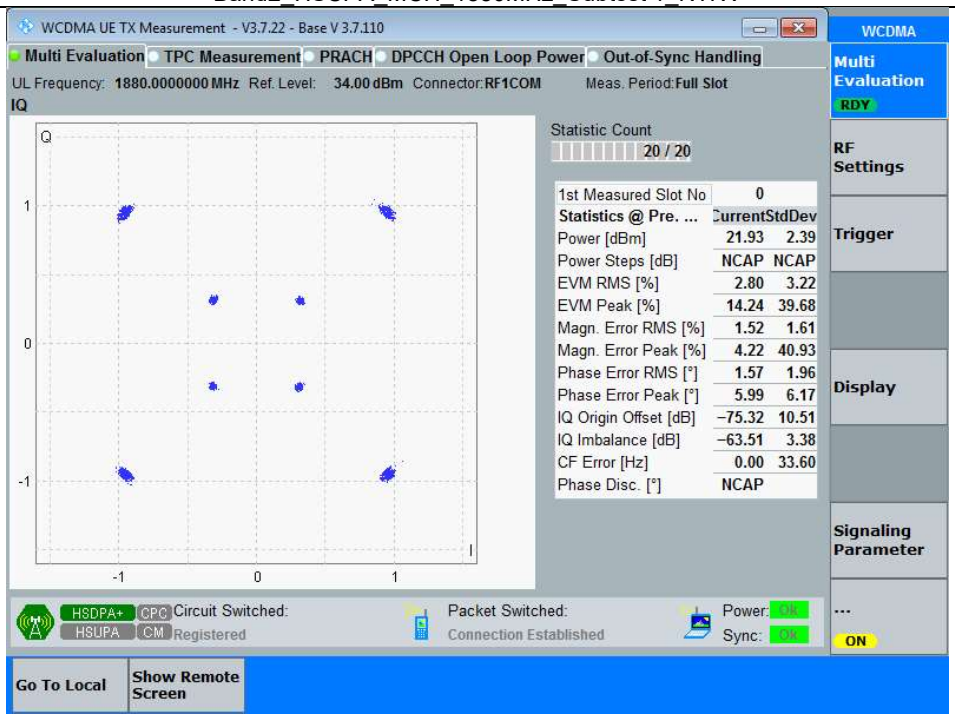
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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4. 99% & 26dB Bandwidth

4.1 Band2_OBW

4.1.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.157	Pass
			1880	4.152	Pass
			1907.6	4.144	Pass
	HSDPA	Subtest 1	1852.4	4.165	Pass
			1880	4.144	Pass
			1907.6	4.152	Pass
	HSUPA	Subtest 1	1852.4	4.149	Pass
			1880	4.164	Pass
			1907.6	4.157	Pass

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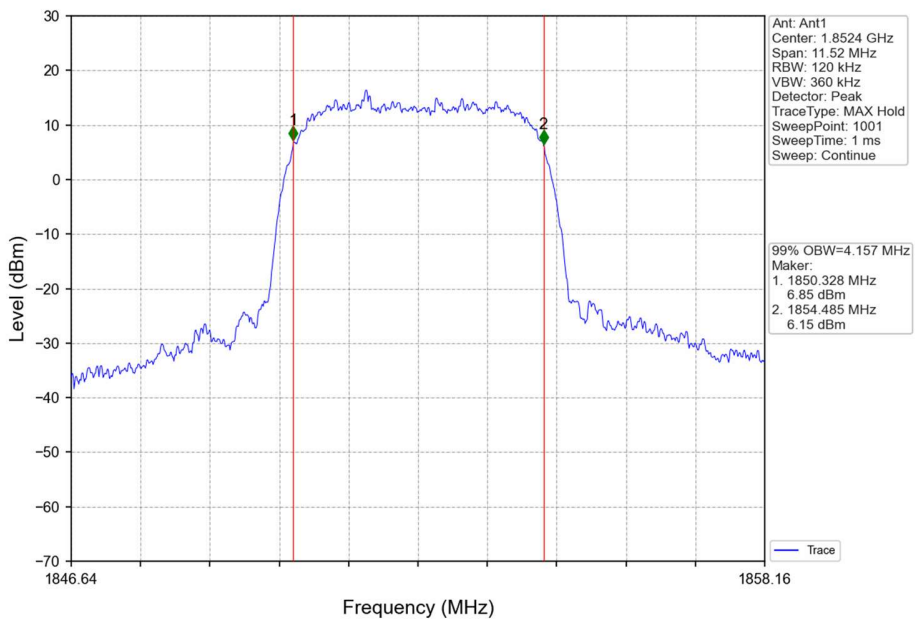
4.1.2 Test Graph

Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



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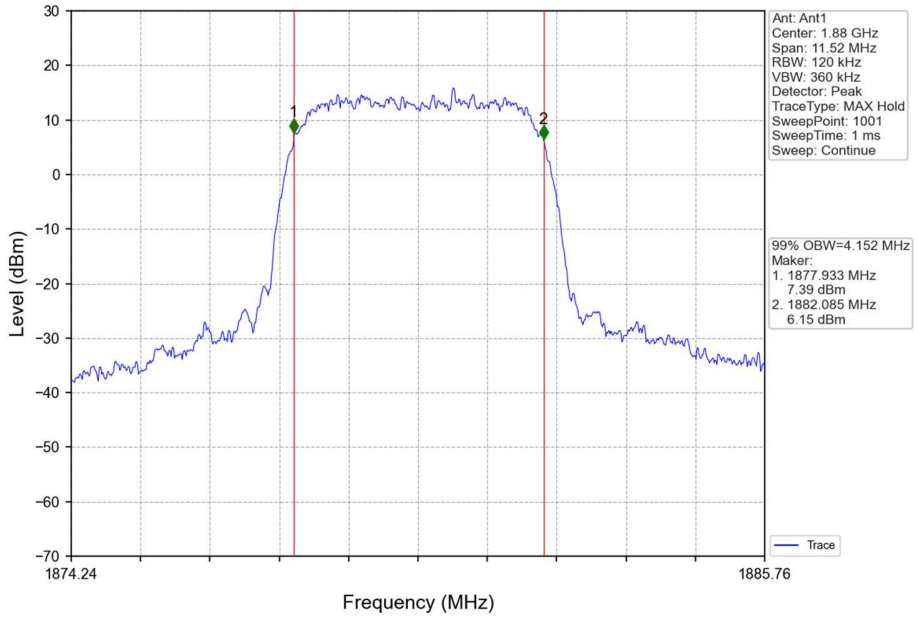
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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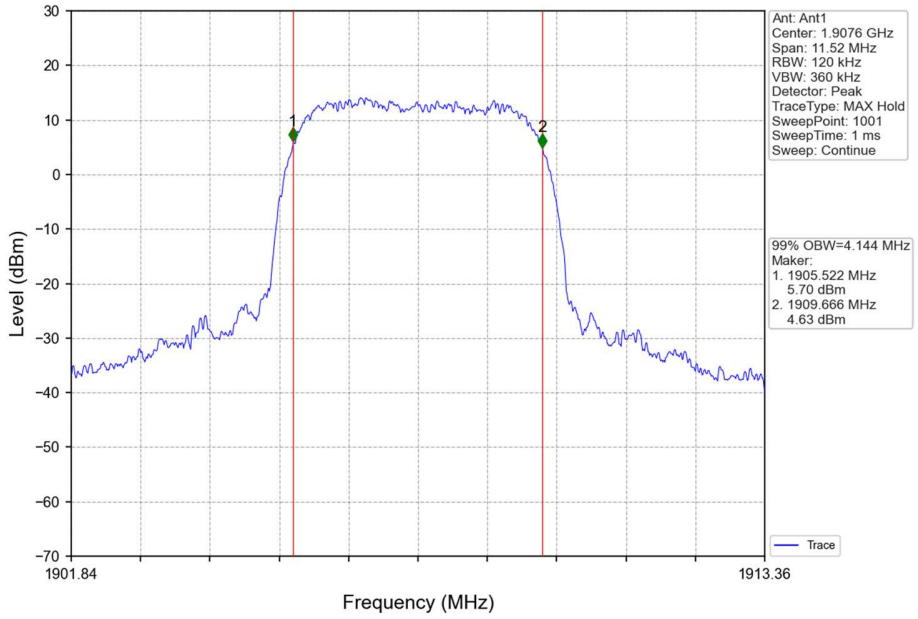
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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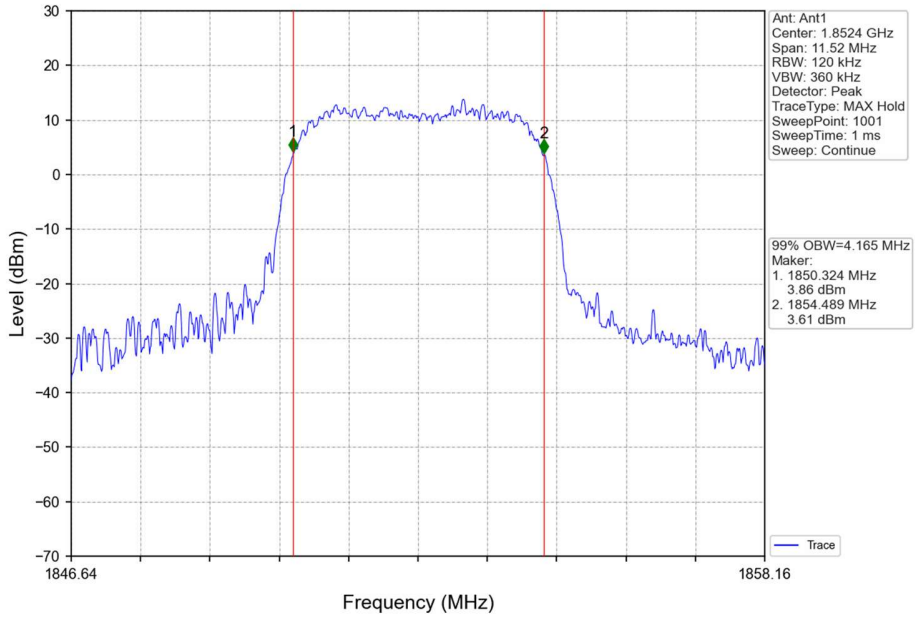
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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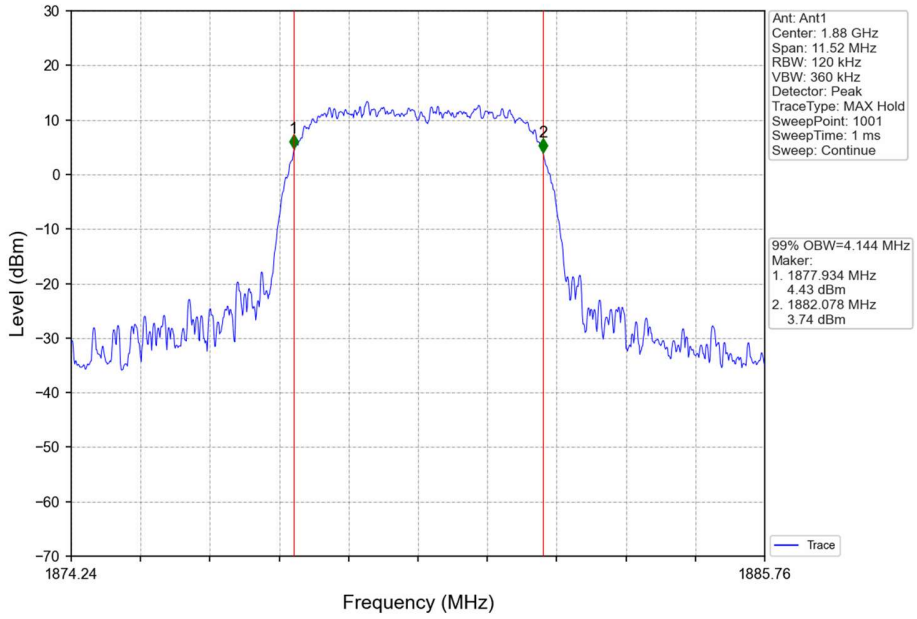
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



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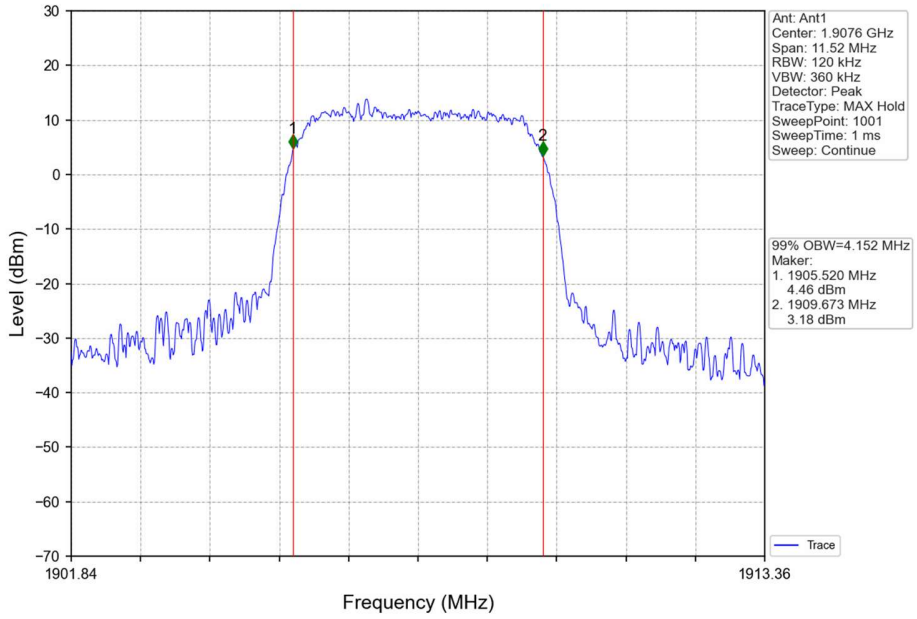
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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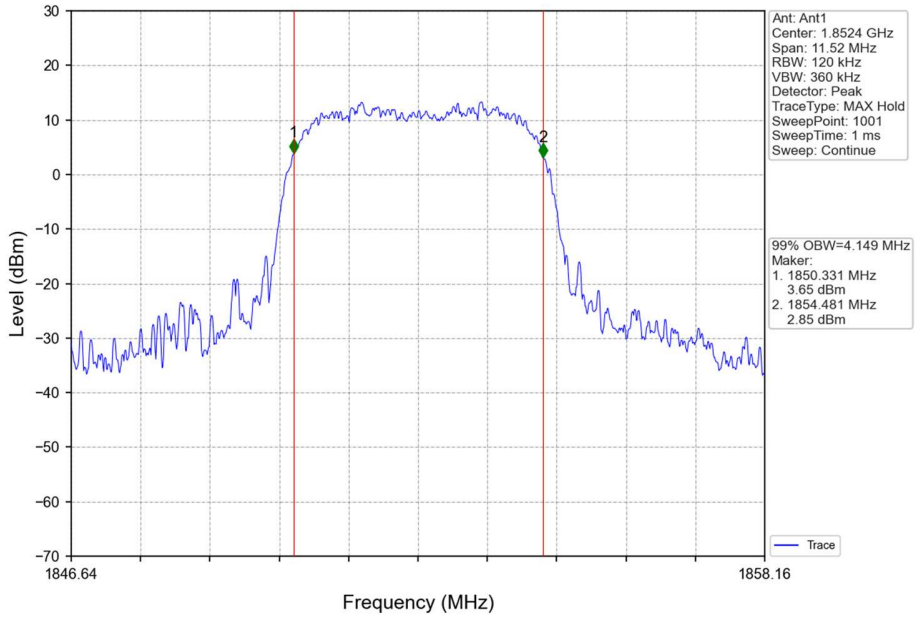
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



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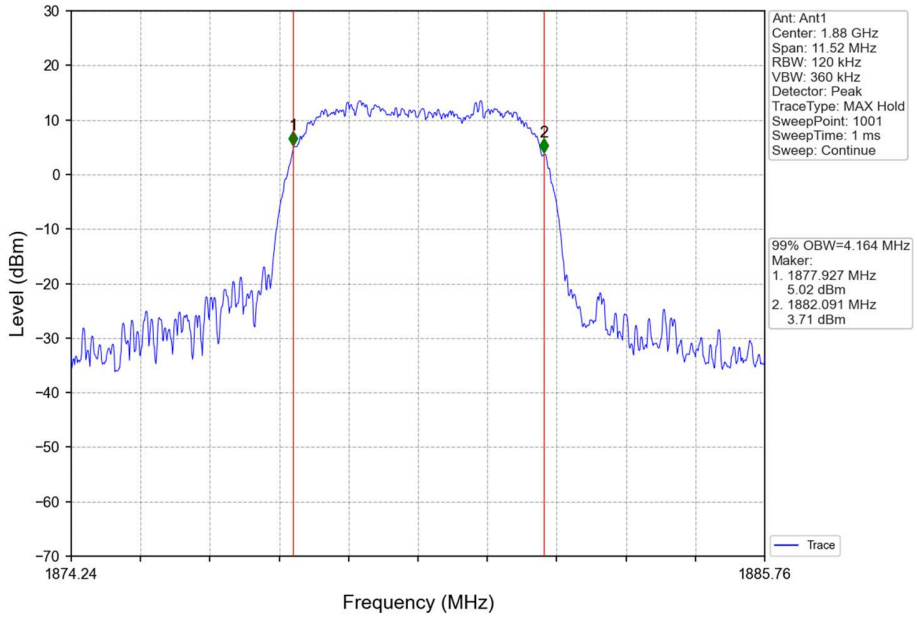
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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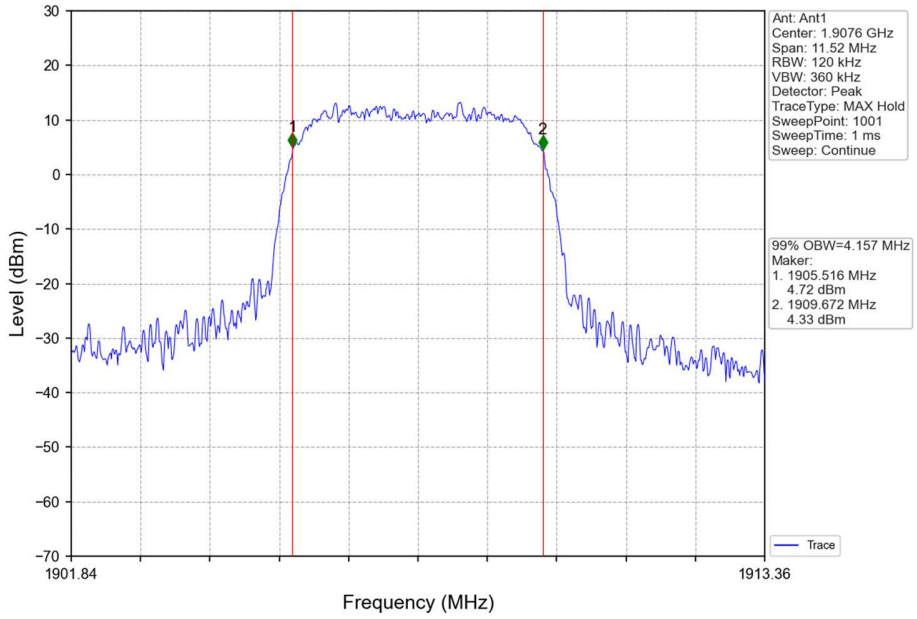
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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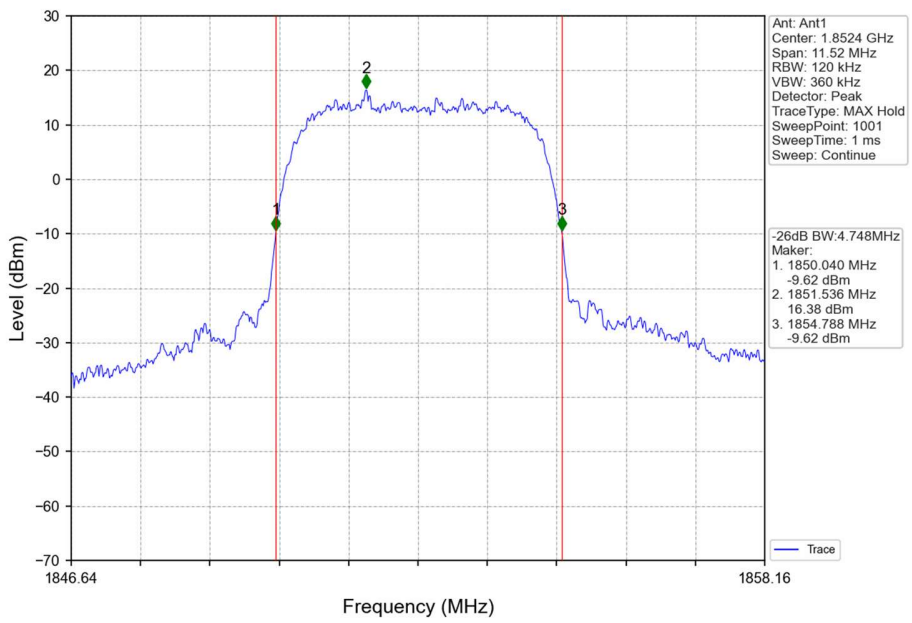
4.2 Band2_XDB

4.2.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.748	Pass
			1880	4.744	Pass
			1907.6	4.766	Pass
	HSDPA	Subtest 1	1852.4	4.763	Pass
			1880	4.755	Pass
			1907.6	4.732	Pass
	HSUPA	Subtest 1	1852.4	4.758	Pass
			1880	4.761	Pass
			1907.6	4.758	Pass

4.2.2 Test Graph

Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



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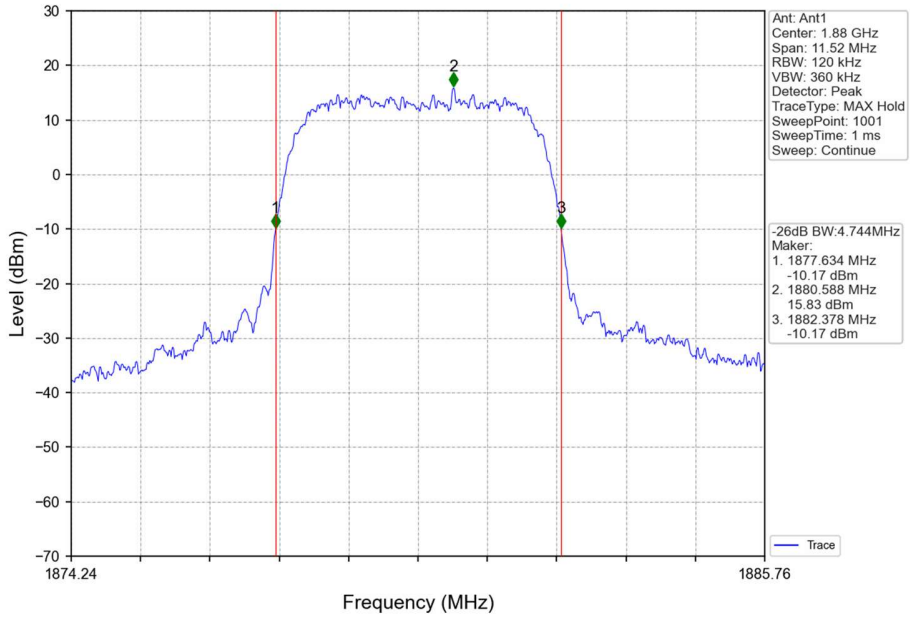
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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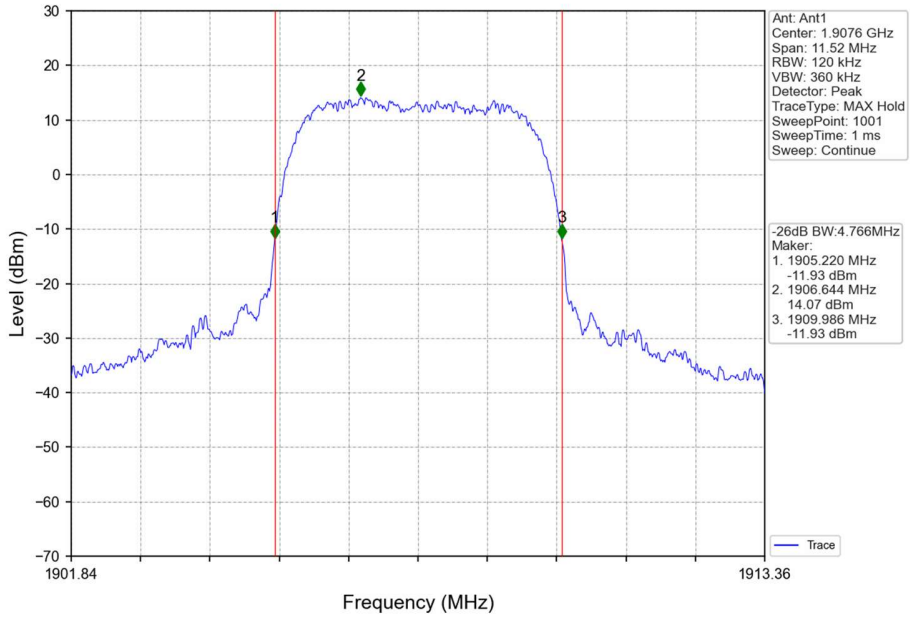

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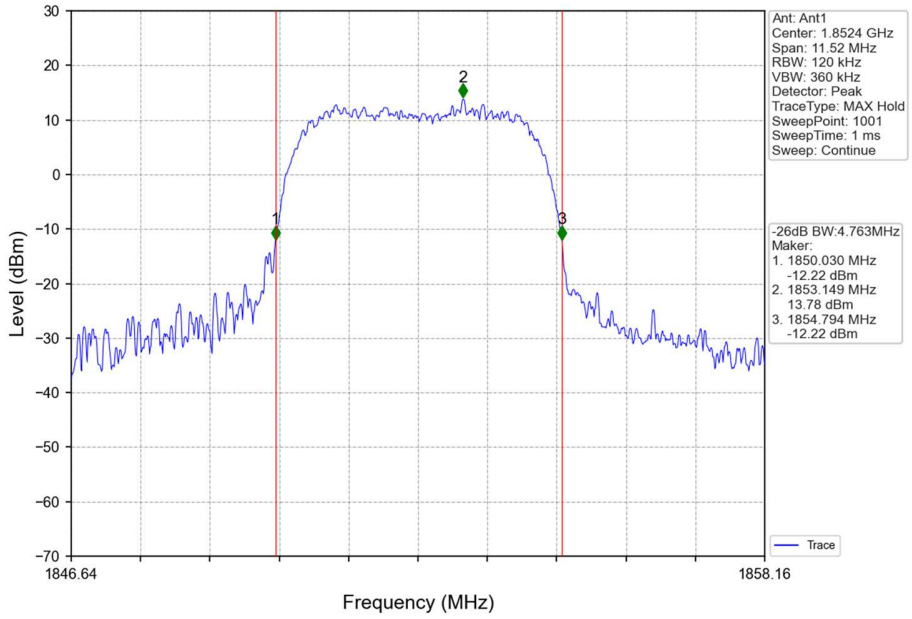
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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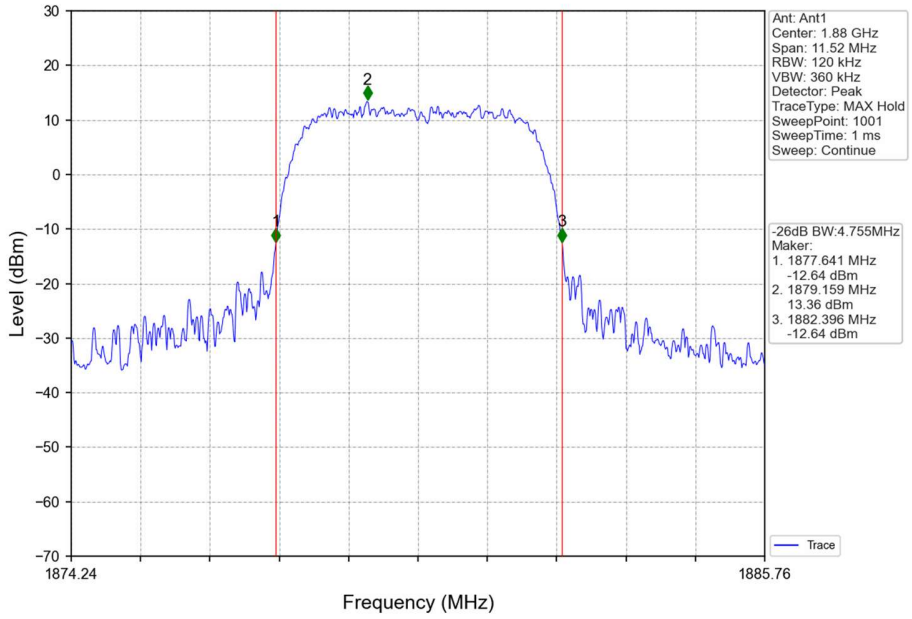
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



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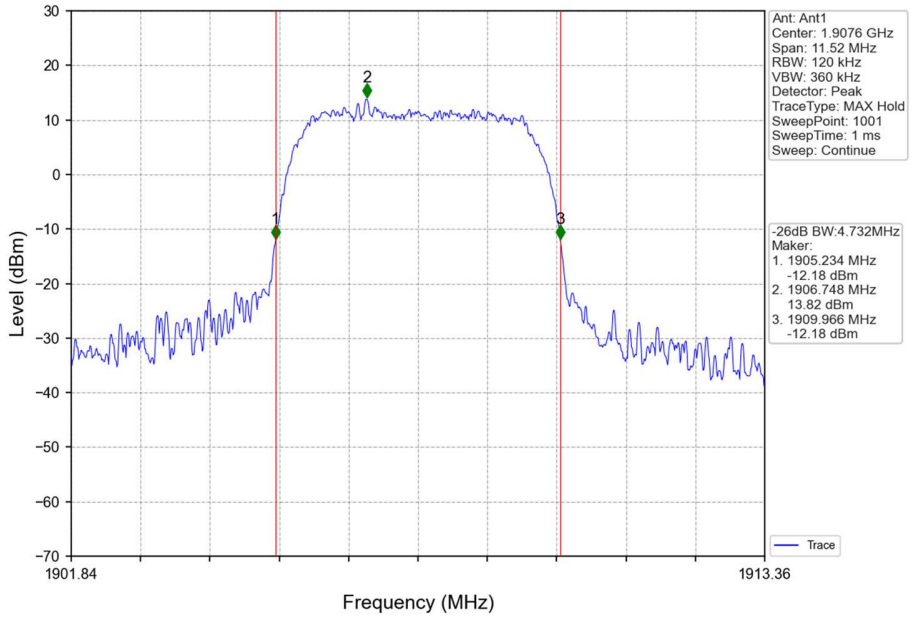
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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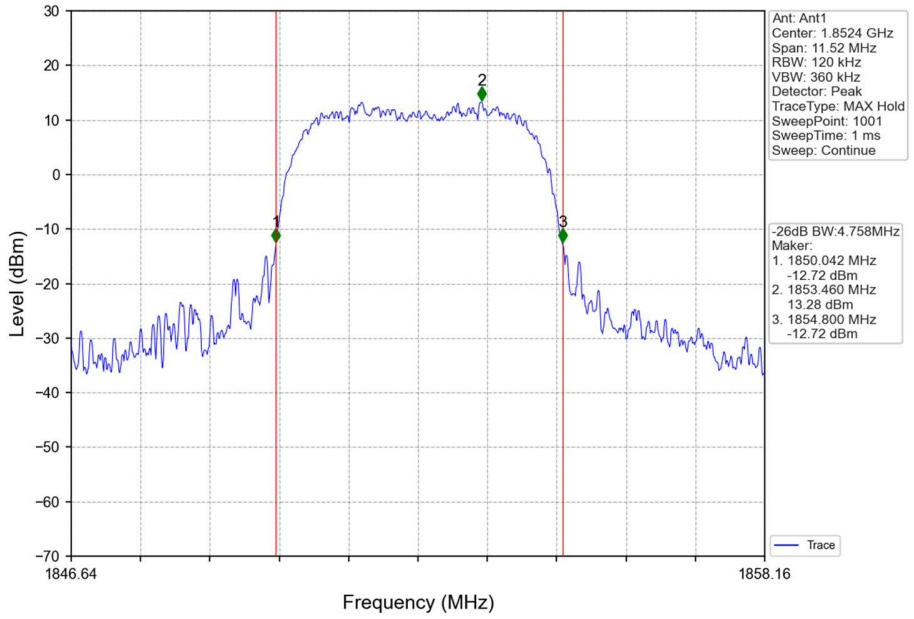
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



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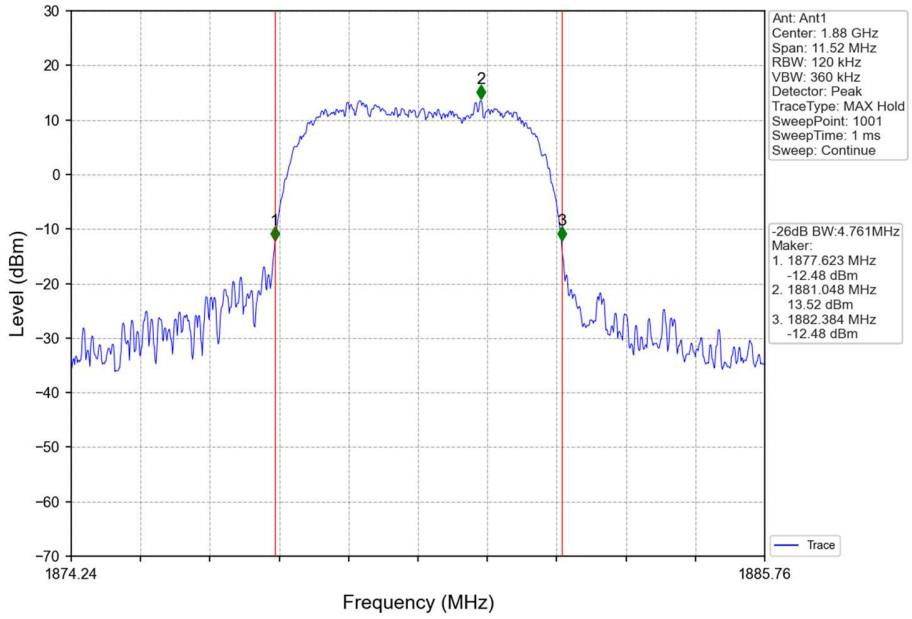
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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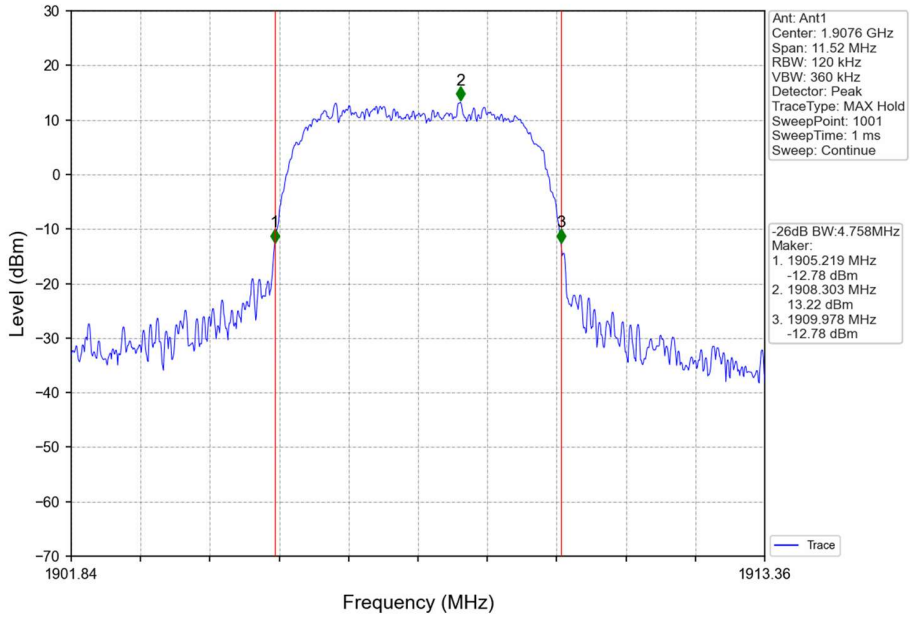
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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5. Peak-Average Ratio

5.1 Band2

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	2.86	<=13	Pass
			1880	2.88	<=13	Pass
			1907.6	2.88	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.80	<=13	Pass
			1880	5.82	<=13	Pass
			1907.6	5.88	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.85	<=13	Pass
			1880	5.78	<=13	Pass
			1907.6	5.86	<=13	Pass

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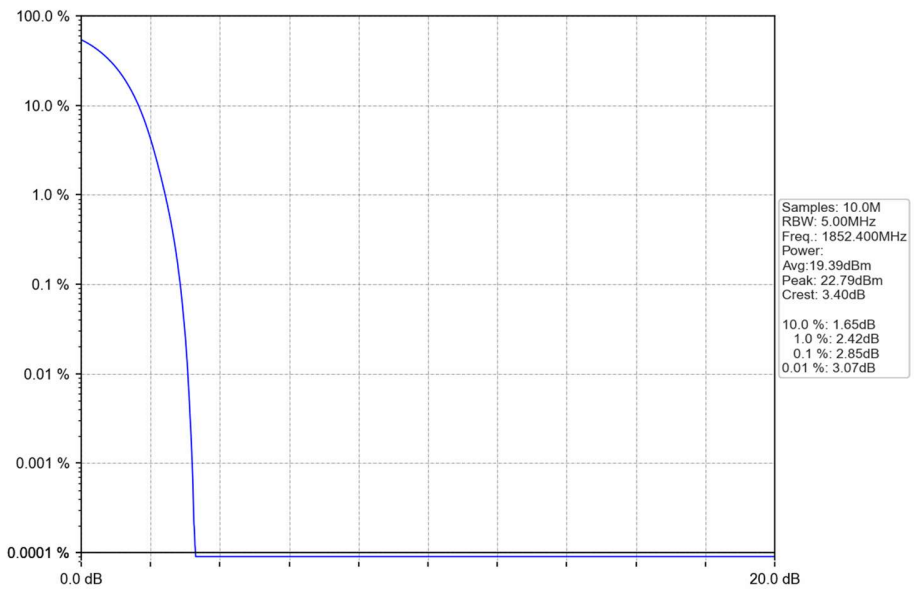
5.1.2 Test Graph

Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



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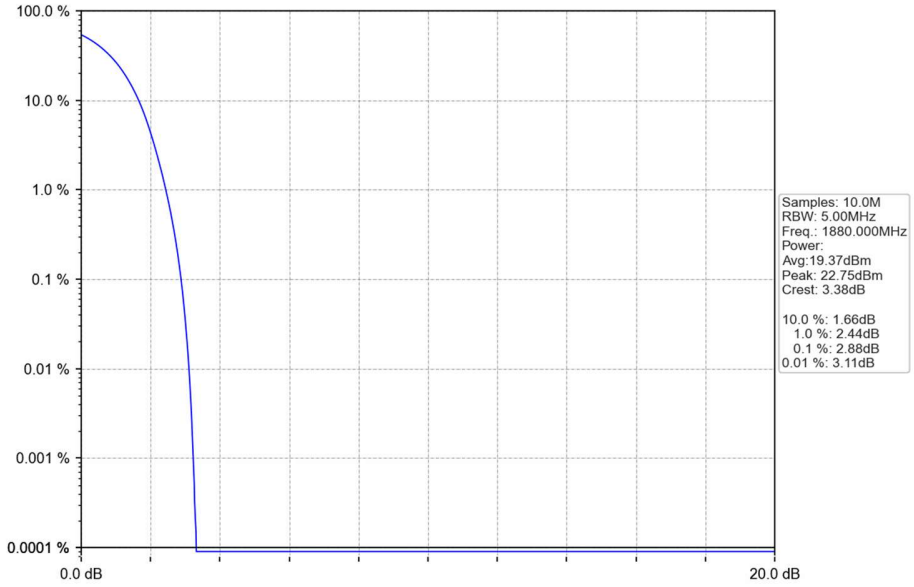
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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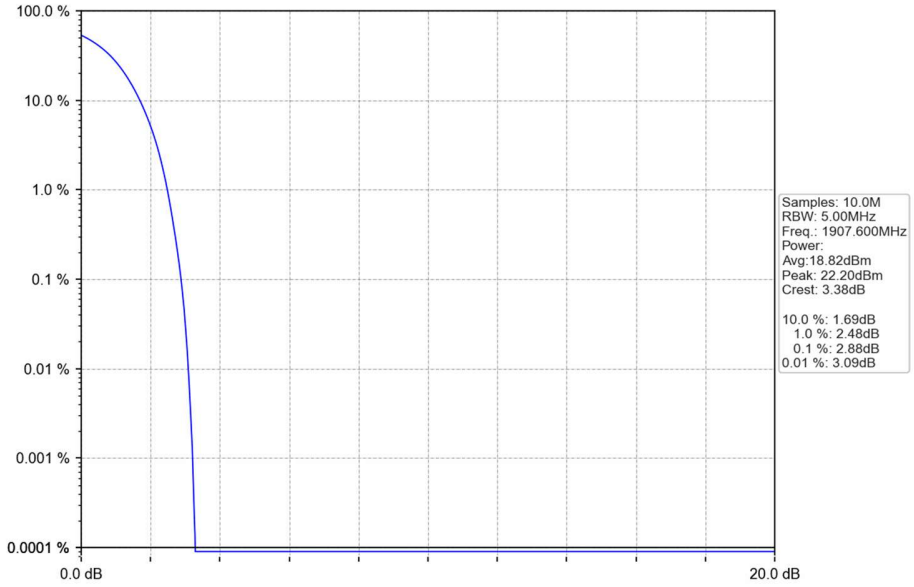
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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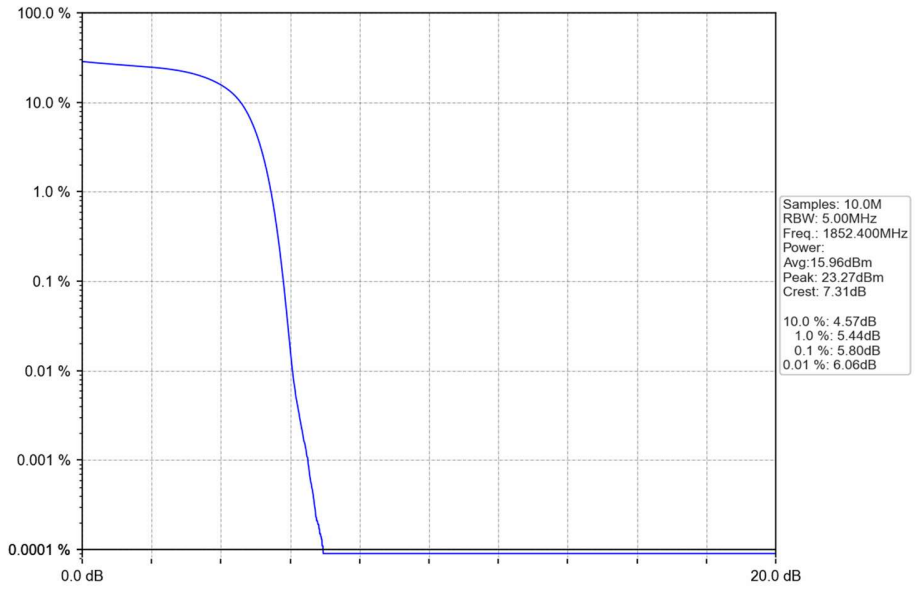
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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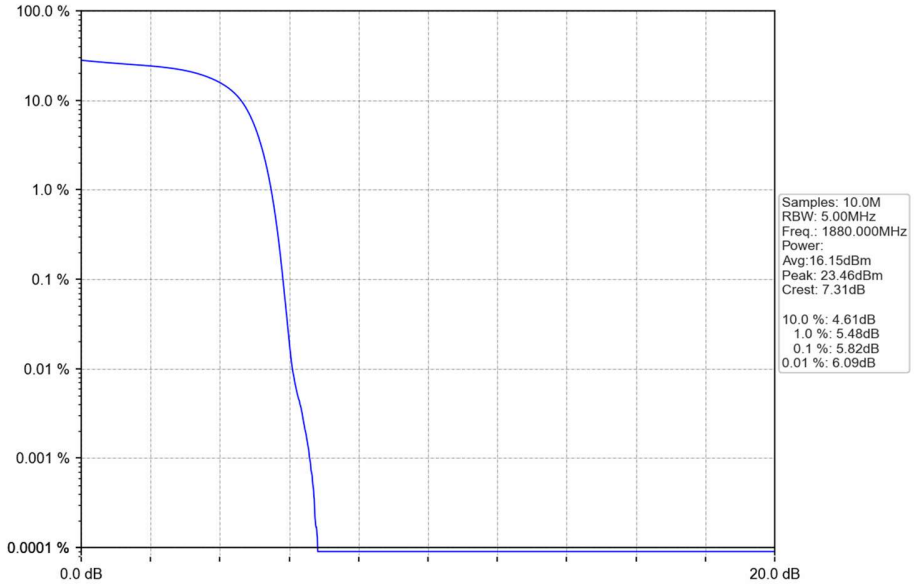
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



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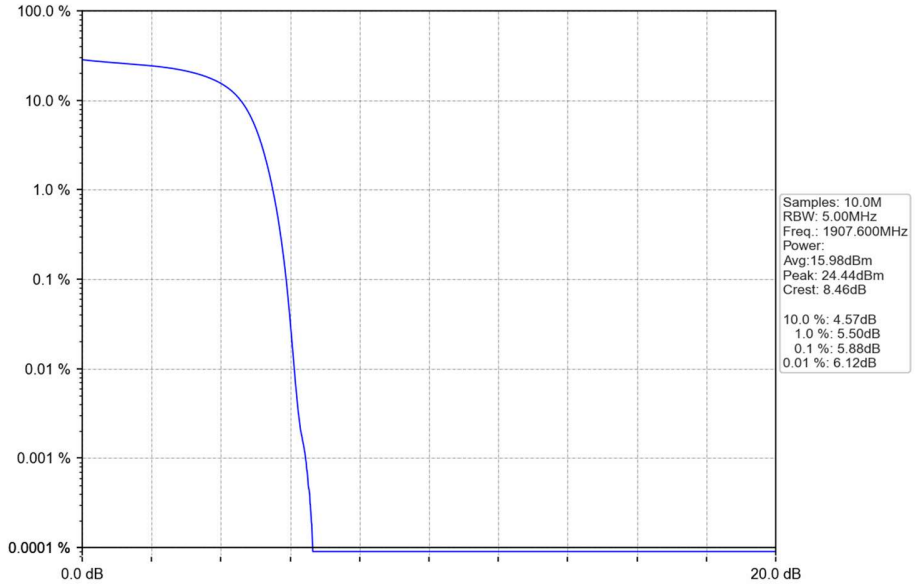
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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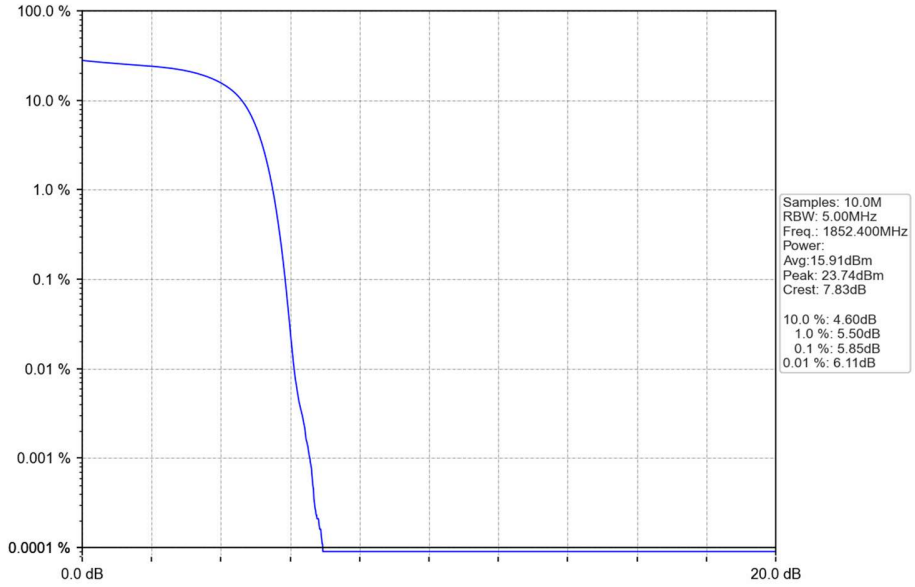
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



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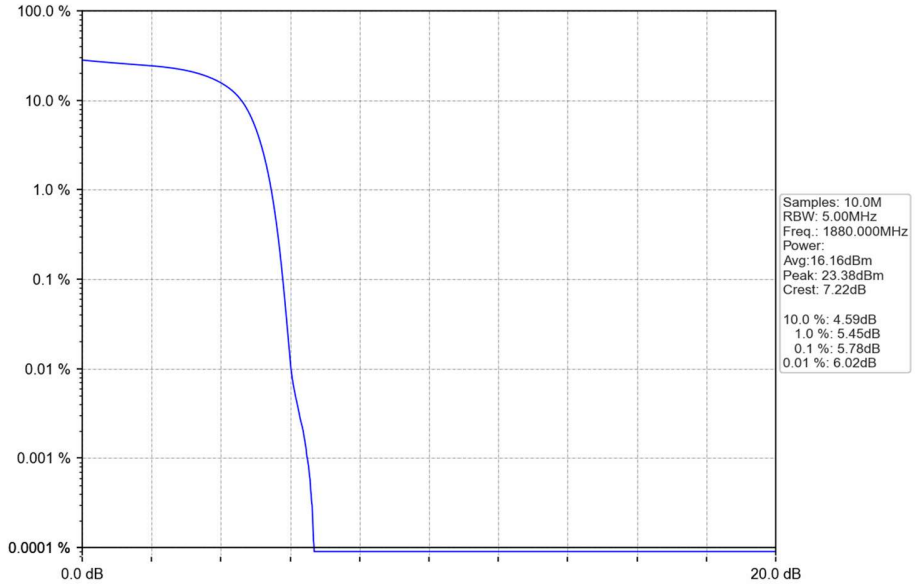
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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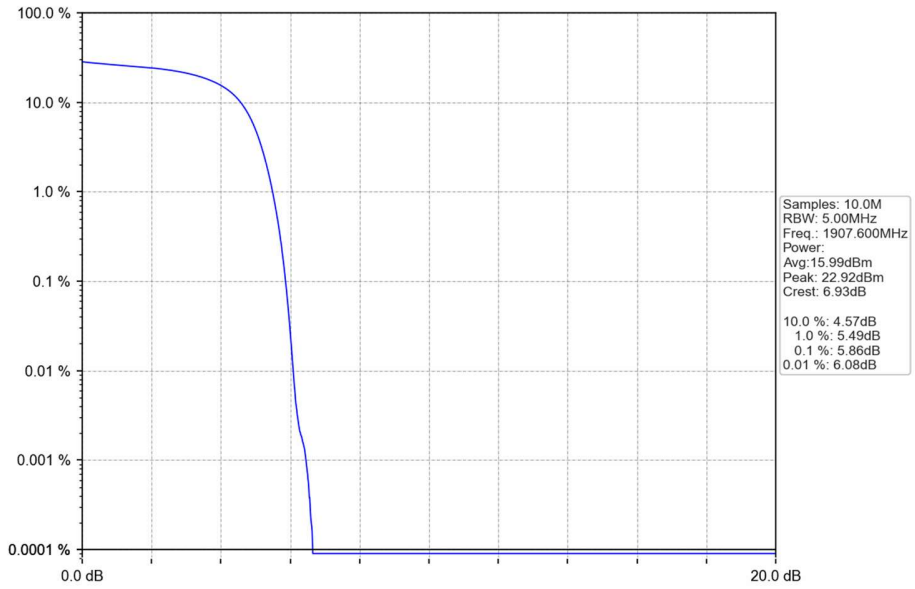
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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6. Spurious Emission

6.1 Band2

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

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.
Remark2: only the worst case data displayed in this report.

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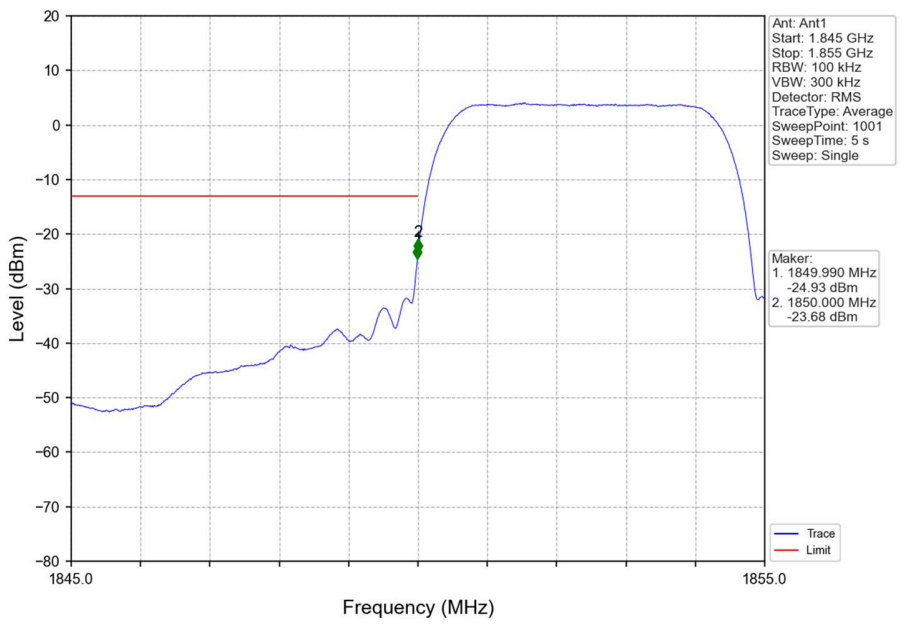
6.1.2 Test Graph

Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



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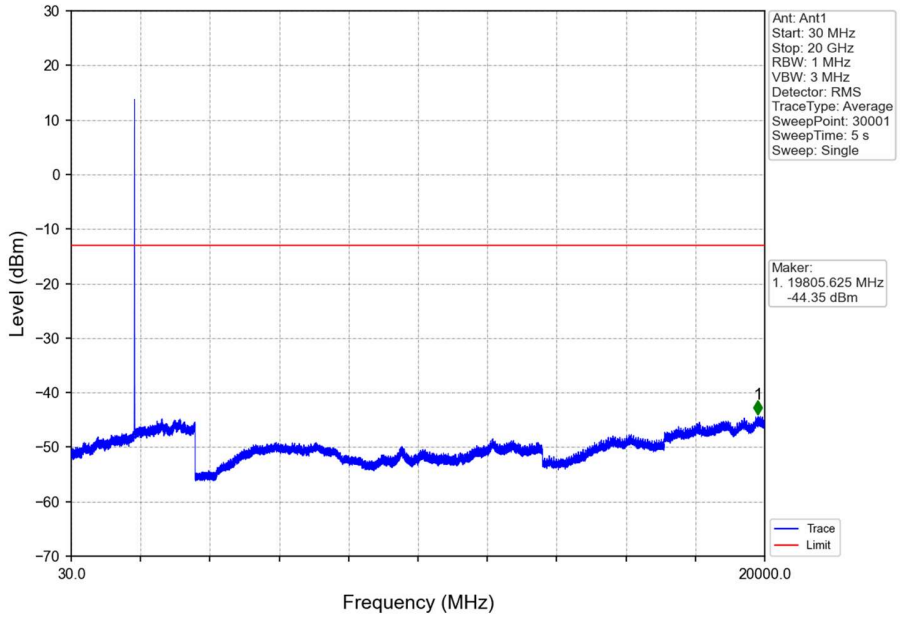
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



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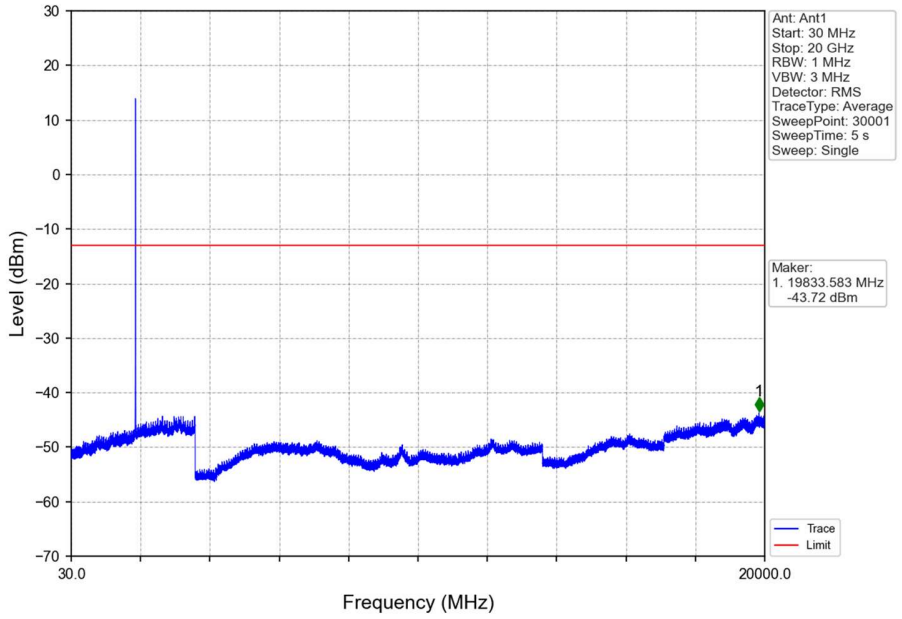
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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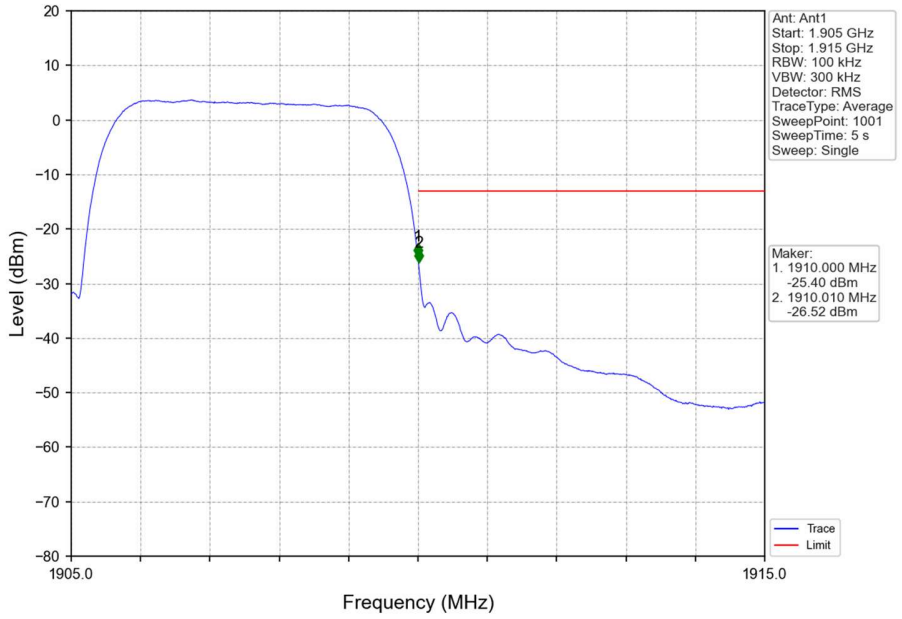
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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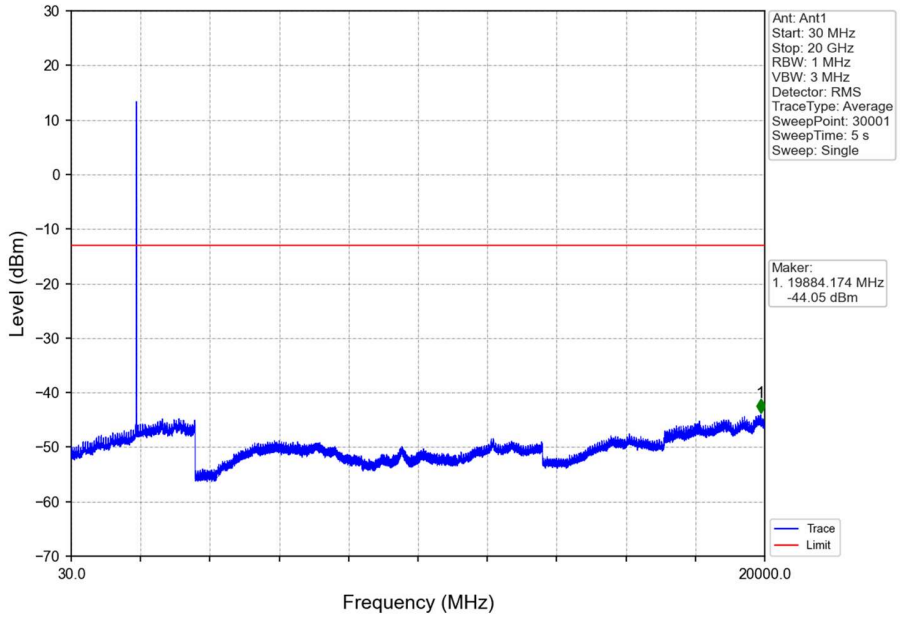
Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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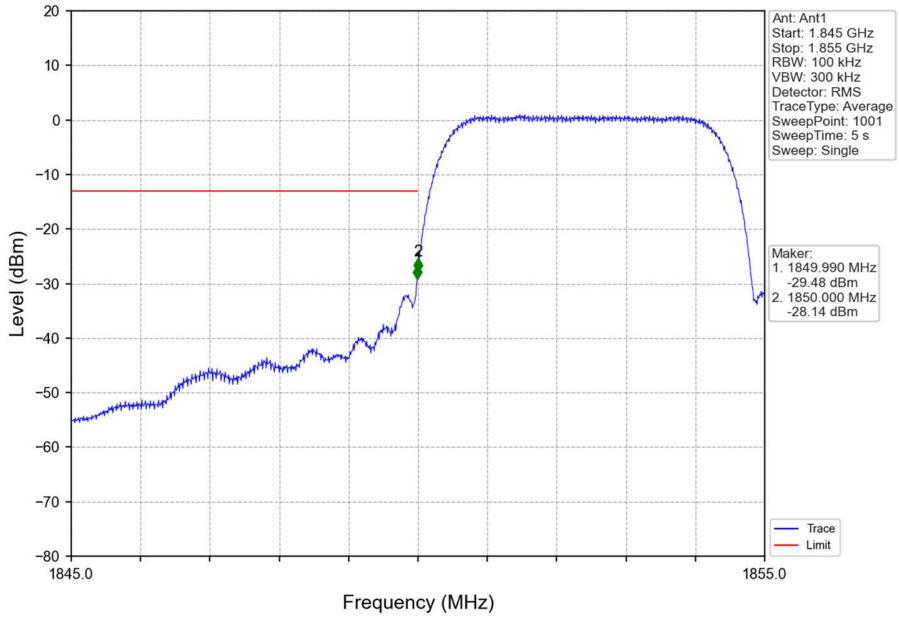
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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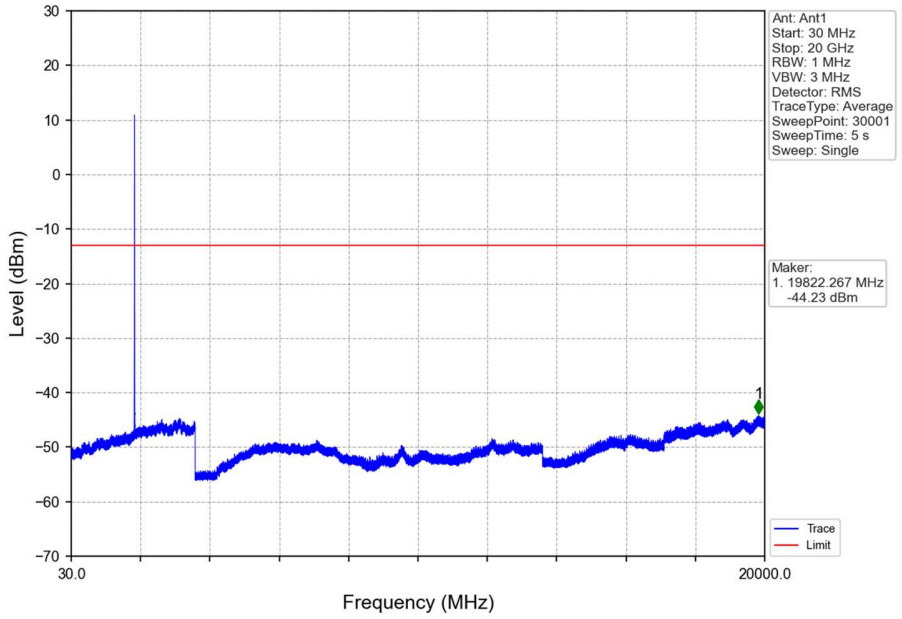
Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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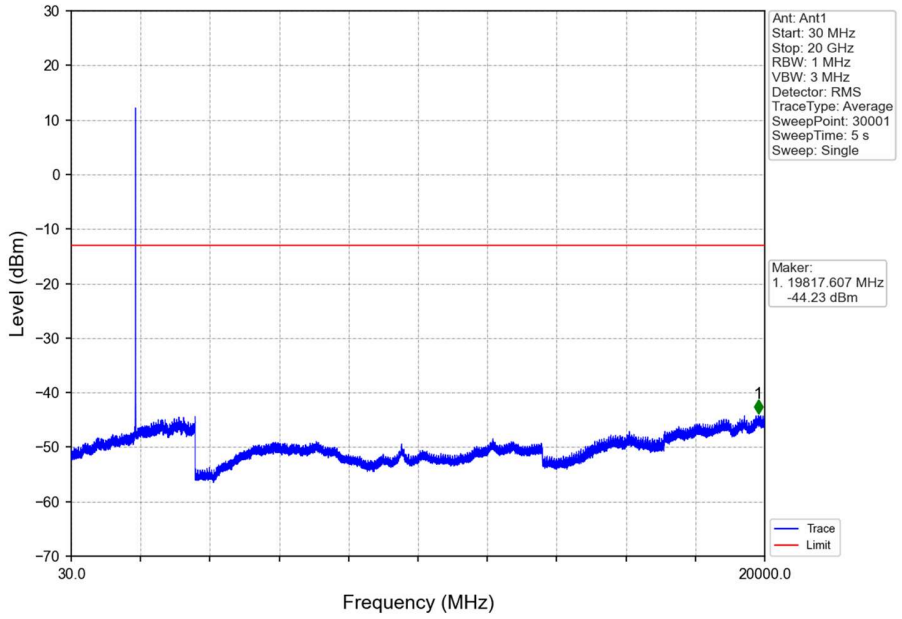
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



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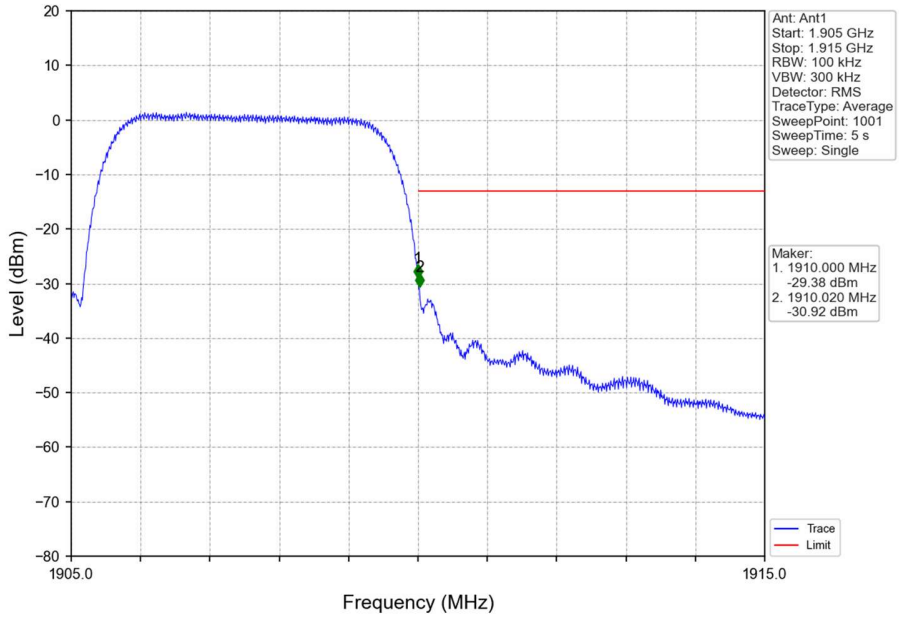
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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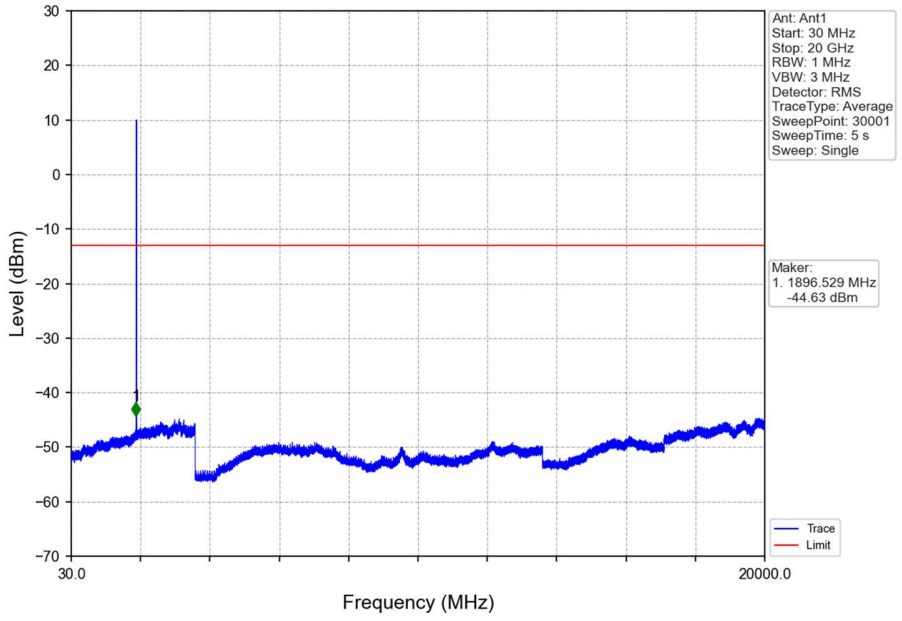
Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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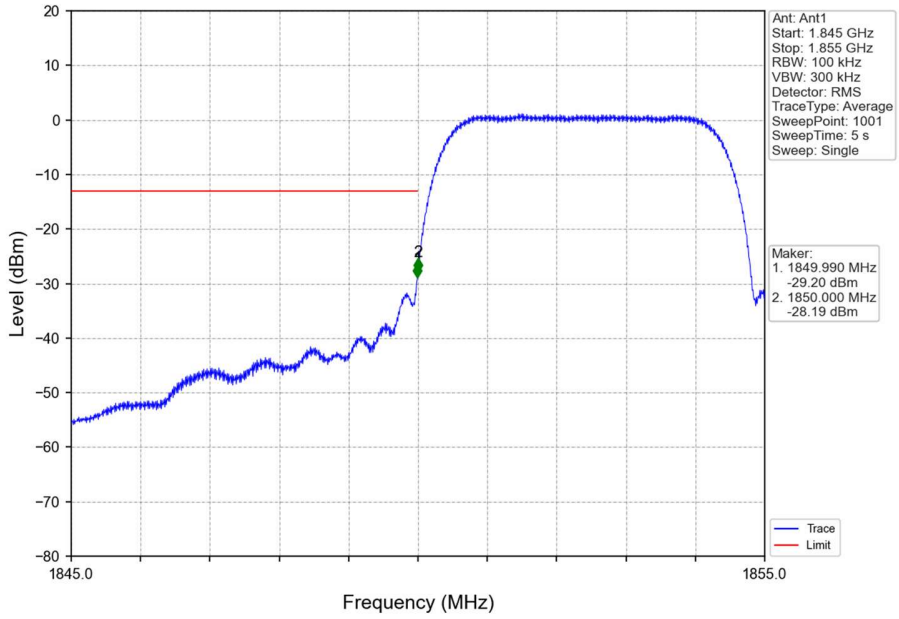
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



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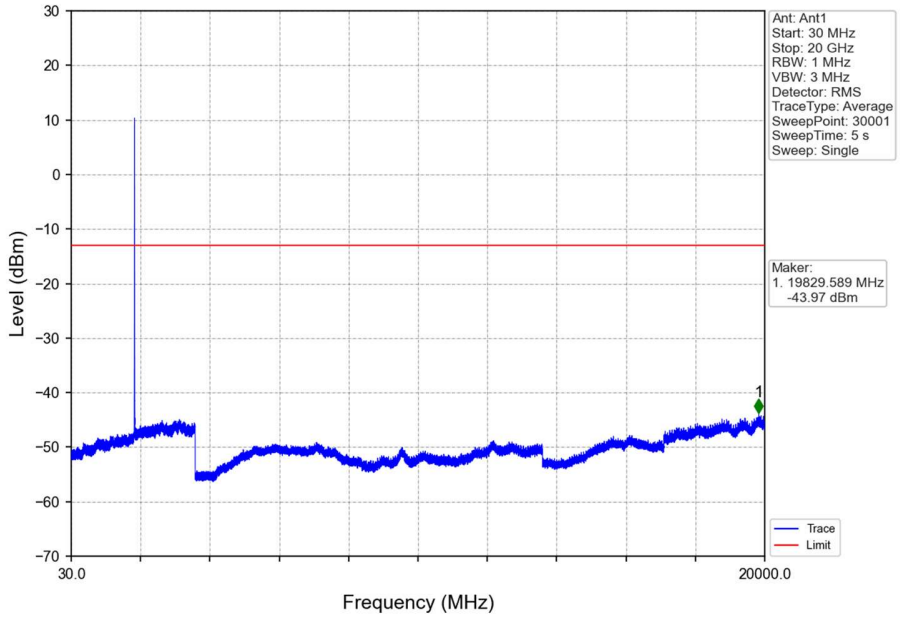
Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



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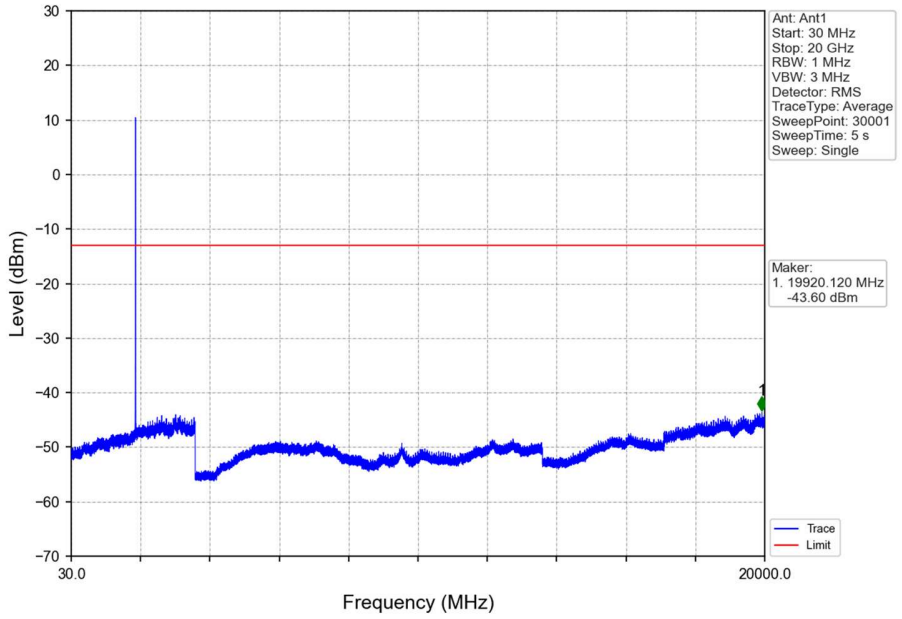
Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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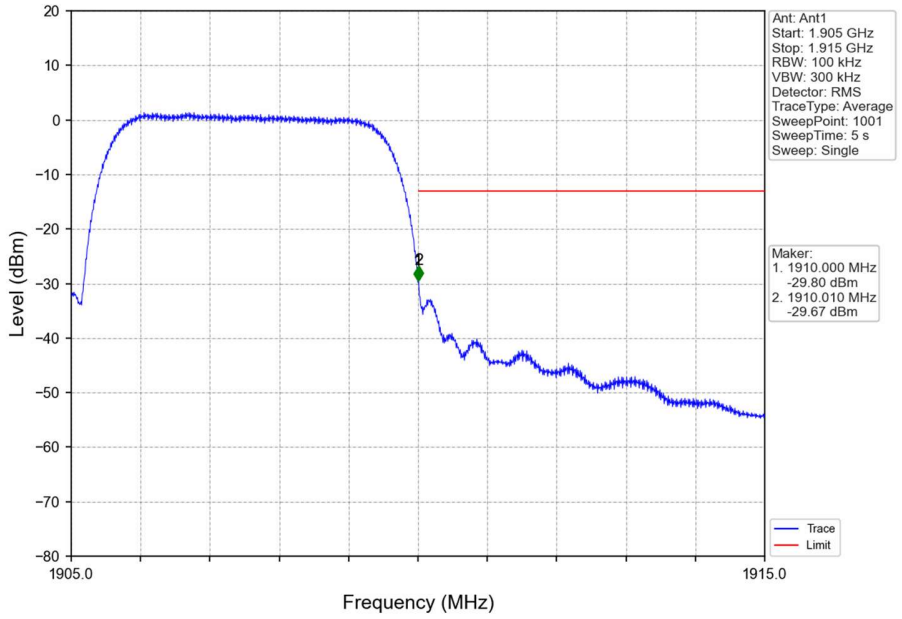
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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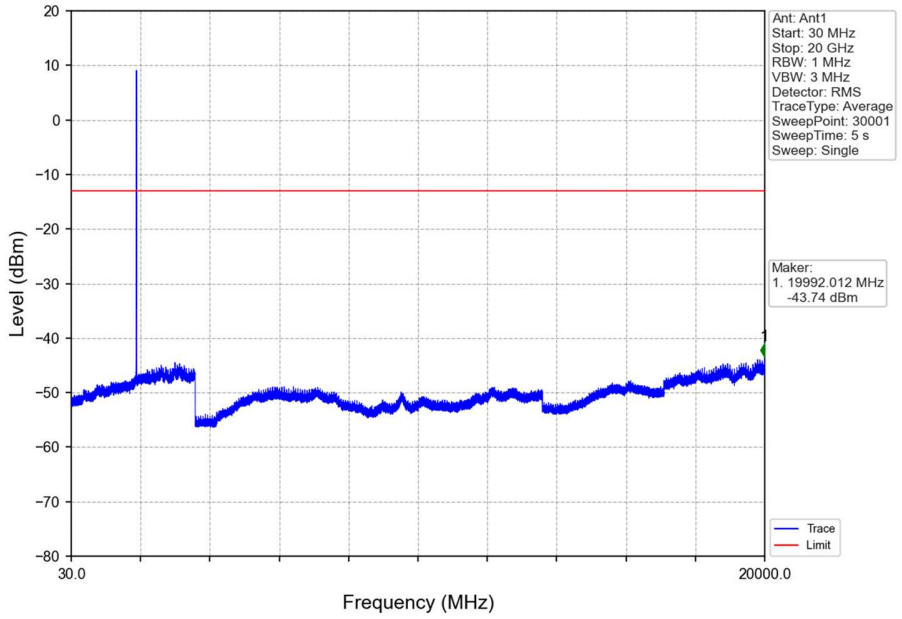
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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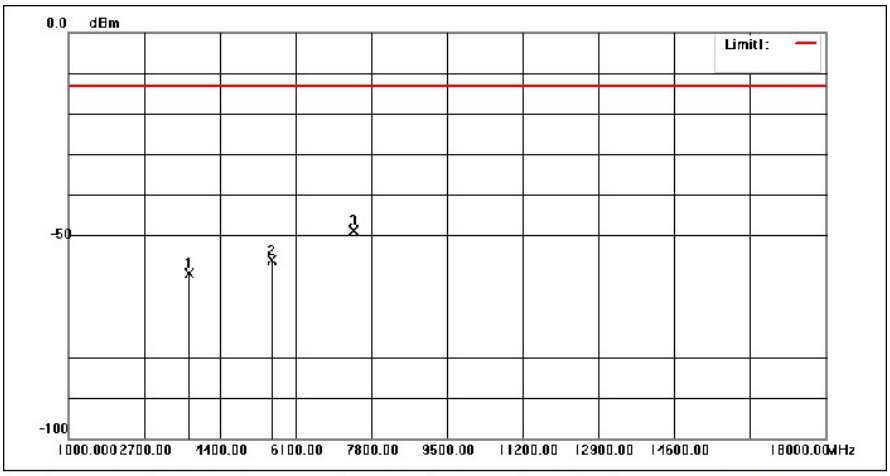
7. Field Strength of Spurious Radiation

Up Antenna

WCDMA Band II-Low channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3704.800	-54.91	-4.45	-59.36	-13.00	-46.36	peak
2	5557.200	-55.90	-0.14	-56.04	-13.00	-43.04	peak
3	7409.600	-53.42	4.49	-48.93	-13.00	-35.93	peak

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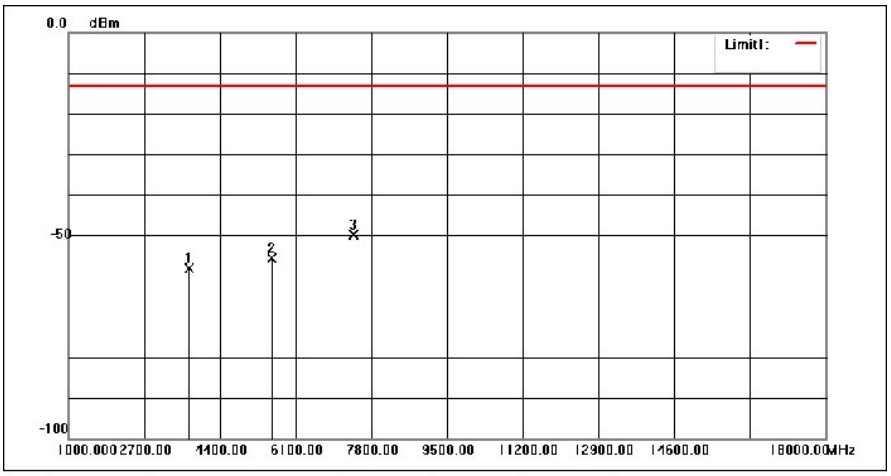
Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3704.800	-53.78	-4.45	-58.23	-13.00	-45.23	peak
2	5557.200	-55.47	-0.14	-55.61	-13.00	-42.61	peak
3	7409.600	-54.42	4.49	-49.93	-13.00	-36.93	peak

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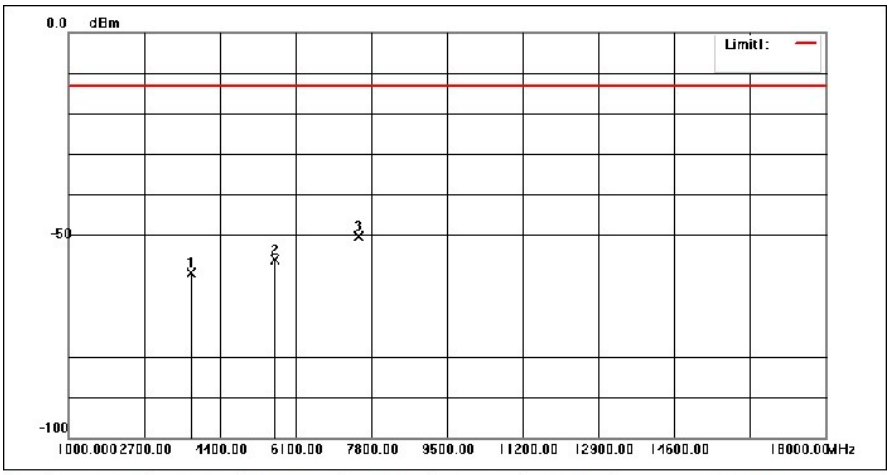
WCDMA Band II -Middle channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-55.00	-4.47	-59.47	-13.00	-46.47	peak
2	5640.000	-56.09	-0.02	-56.11	-13.00	-43.11	peak
3	7520.000	-55.65	5.16	-50.49	-13.00	-37.49	peak

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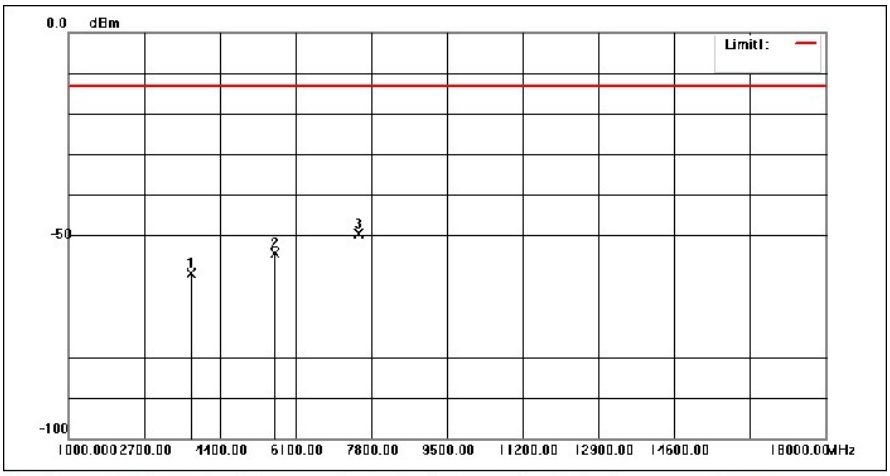
Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-54.86	-4.47	-59.33	-13.00	-46.33	peak
2	5640.000	-54.41	-0.02	-54.43	-13.00	-41.43	peak
3	7520.000	-54.69	5.16	-49.53	-13.00	-36.53	peak

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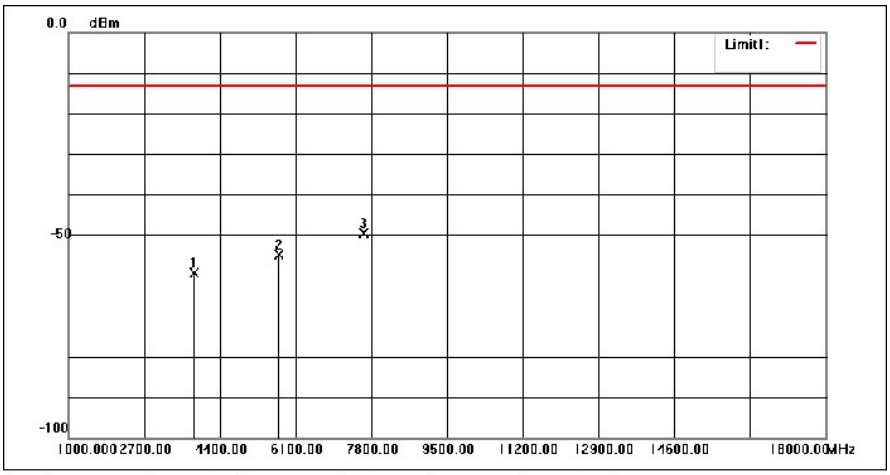
WCDMA Band II -High channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3815.200	-54.90	-4.49	-59.39	-13.00	-46.39	peak
2	5722.800	-55.08	0.17	-54.91	-13.00	-41.91	peak
3	7630.400	-54.82	5.30	-49.52	-13.00	-36.52	peak

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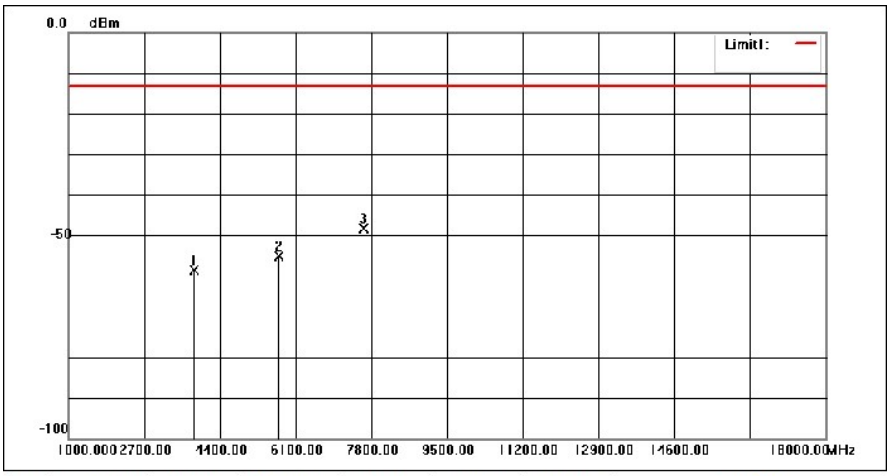
Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3815.200	-54.21	-4.49	-58.70	-13.00	-45.70	peak
2	5722.800	-55.38	0.17	-55.21	-13.00	-42.21	peak
3	7630.400	-53.55	5.30	-48.25	-13.00	-35.25	peak

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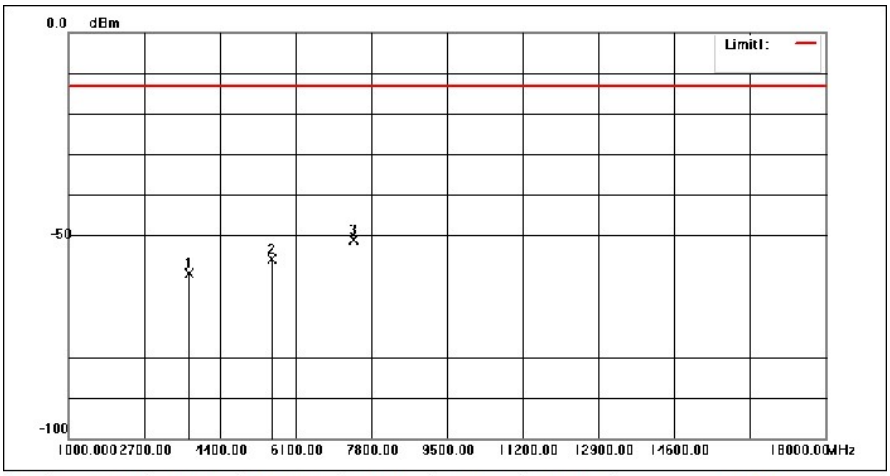
Down Antenna

WCDMA Band II-Low channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3704.800	-54.98	-4.45	-59.43	-13.00	-46.43	peak
2	5557.200	-55.68	-0.14	-55.82	-13.00	-42.82	peak
3	7409.600	-55.67	4.49	-51.18	-13.00	-38.18	peak

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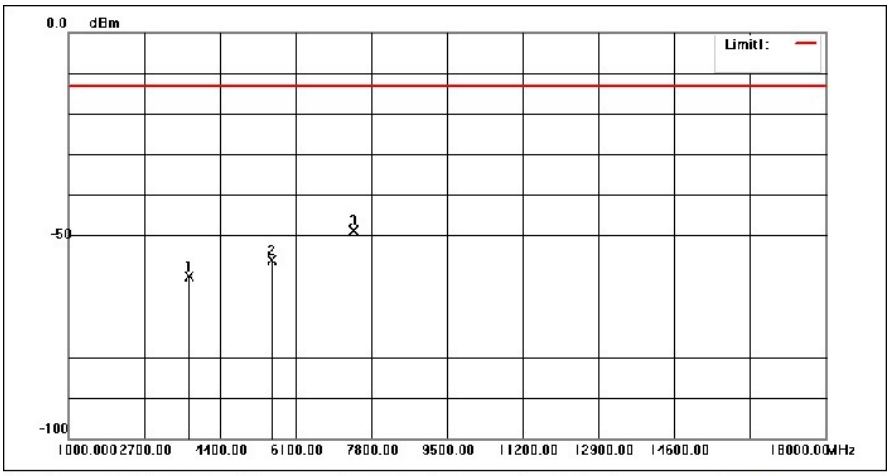
Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3704.800	-55.65	-4.45	-60.10	-13.00	-47.10	peak
2	5557.200	-56.00	-0.14	-56.14	-13.00	-43.14	peak
3	7409.600	-53.37	4.49	-48.88	-13.00	-35.88	peak

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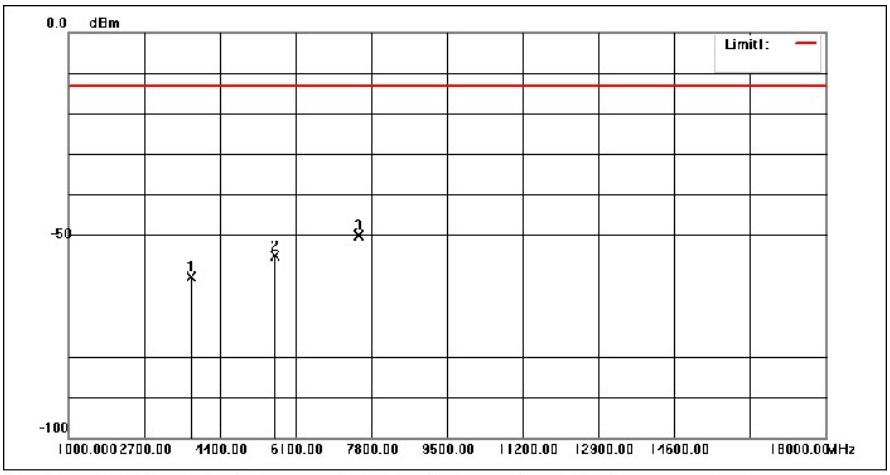
WCDMA Band II -Middle channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-55.99	-4.47	-60.46	-13.00	-47.46	peak
2	5640.000	-55.12	-0.02	-55.14	-13.00	-42.14	peak
3	7520.000	-55.27	5.16	-50.11	-13.00	-37.11	peak

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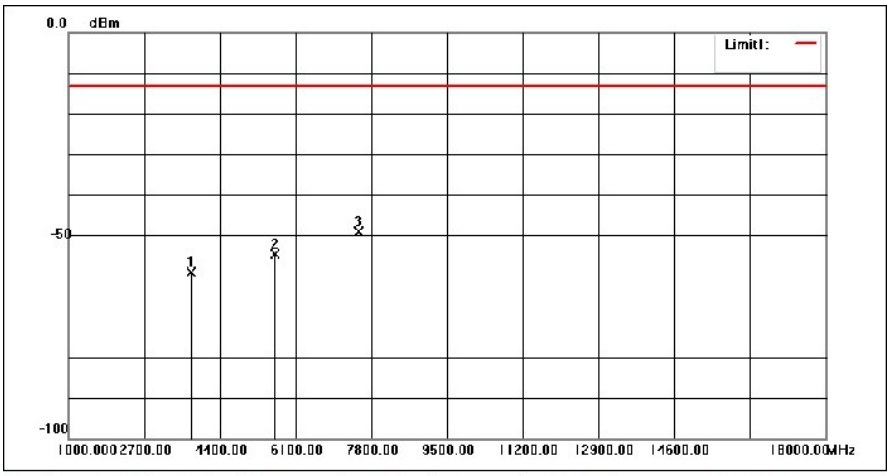
Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-54.63	-4.47	-59.10	-13.00	-46.10	peak
2	5640.000	-54.59	-0.02	-54.61	-13.00	-41.61	peak
3	7520.000	-54.17	5.16	-49.01	-13.00	-36.01	peak

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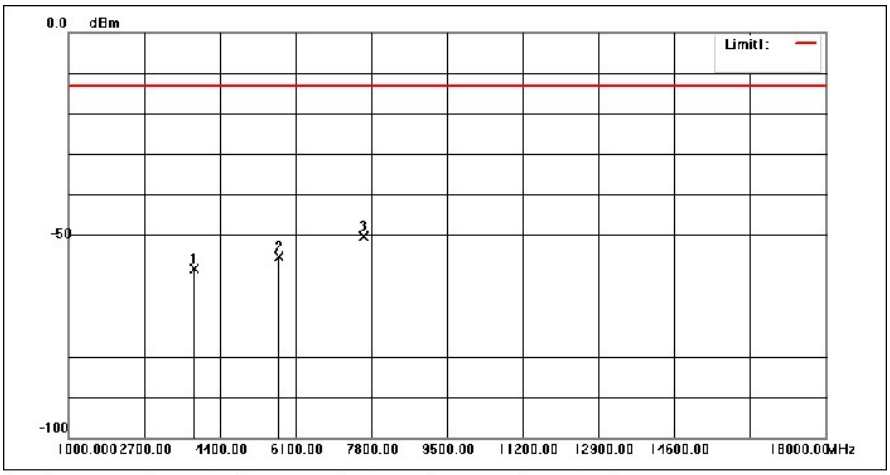
WCDMA Band II -High channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3815.200	-53.89	-4.49	-58.38	-13.00	-45.38	peak
2	5722.800	-55.62	0.17	-55.45	-13.00	-42.45	peak
3	7630.400	-55.57	5.30	-50.27	-13.00	-37.27	peak

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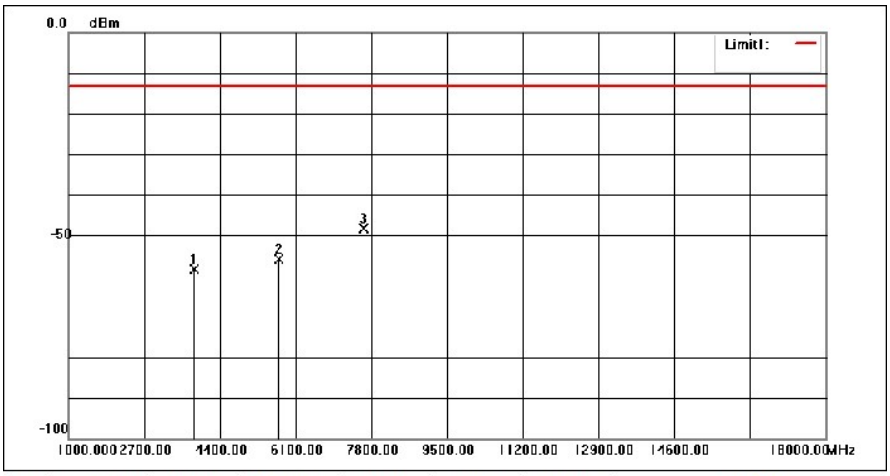
Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3815.200	-53.99	-4.49	-58.48	-13.00	-45.48	peak
2	5722.800	-55.96	0.17	-55.79	-13.00	-42.79	peak
3	7630.400	-53.79	5.30	-48.49	-13.00	-35.49	peak

Remark1:According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
Remark2:The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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