

Appendix H for KSCR2205000668AT-FCC-WCDMA Band4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band4_EIRP

1.1.1 Test Result

Band: 4										
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict		
	Network	Subset				Result	Limit			
NTNV	RMC	12.2kbps RMC	1712.4	23.18	0.44	23.62	<=30	Pass		
			1732.6	23.56	0.44	24.00	<=30	Pass		
			1752.6	23.67	0.44	24.11	<=30	Pass		
	HSDPA	Subtest 1-4	1712.4	21.18	0.44	21.62	<=30	Pass		
			1712.4	21.18	0.44	21.62	<=30	Pass		
			1712.4	21.13	0.44	21.57	<=30	Pass		
			1712.4	21.12	0.44	21.56	<=30	Pass		
			1732.6	21.39	0.44	21.83	<=30	Pass		
			1732.6	21.38	0.44	21.82	<=30	Pass		
			1732.6	21.37	0.44	21.81	<=30	Pass		
			1732.6	21.32	0.44	21.76	<=30	Pass		
			1752.6	21.45	0.44	21.89	<=30	Pass		
			1752.6	21.47	0.44	21.91	<=30	Pass		
			1752.6	21.45	0.44	21.89	<=30	Pass		
			1752.6	21.39	0.44	21.83	<=30	Pass		
			HSUPA	Subtest 1-5	1712.4	18.87	0.44	19.31	<=30	Pass
					1712.4	19.09	0.44	19.53	<=30	Pass
					1712.4	18.88	0.44	19.32	<=30	Pass
					1712.4	19.15	0.44	19.59	<=30	Pass
	1712.4	18.89			0.44	19.33	<=30	Pass		
	1732.6	19.61			0.44	20.05	<=30	Pass		
	1732.6	18.69			0.44	19.13	<=30	Pass		
	1732.6	19.50			0.44	19.94	<=30	Pass		
	1732.6	18.81			0.44	19.25	<=30	Pass		
	1732.6	19.54			0.44	19.98	<=30	Pass		
	1752.6	19.54			0.44	19.98	<=30	Pass		
	1752.6	18.78	0.44	19.22	<=30	Pass				
	1752.6	19.11	0.44	19.55	<=30	Pass				
	1752.6	18.91	0.44	19.35	<=30	Pass				
	1752.6	19.53	0.44	19.97	<=30	Pass				

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Band4

2.1.1 Test Result



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Band: 4								
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
					Result	Limit		
RMC	1712.4	20	3.46	-13.053	-0.0076	-2.5 to 2.5	Pass	
			3.8	-12.774	-0.0075	-2.5 to 2.5	Pass	
			4.35	-11.809	-0.0069	-2.5 to 2.5	Pass	
		-30	3.8	-11.079	-0.0065	-2.5 to 2.5	Pass	
			-20	3.8	-10.607	-0.0062	-2.5 to 2.5	Pass
				3.8	-10.328	-0.0060	-2.5 to 2.5	Pass
		0	3.8	-11.530	-0.0067	-2.5 to 2.5	Pass	
			10	3.8	-13.812	-0.0081	-2.5 to 2.5	Pass
			30	3.8	-13.247	-0.0077	-2.5 to 2.5	Pass
		50	3.8	-14.584	-0.0085	-2.5 to 2.5	Pass	
			3.8	-13.754	-0.0080	-2.5 to 2.5	Pass	
			20	3.46	-13.039	-0.0075	-2.5 to 2.5	Pass
	3.8			-12.546	-0.0072	-2.5 to 2.5	Pass	
	4.35			-12.946	-0.0075	-2.5 to 2.5	Pass	
	-30		3.8	-16.301	-0.0094	-2.5 to 2.5	Pass	
		-20	3.8	-13.826	-0.0080	-2.5 to 2.5	Pass	
			3.8	-15.535	-0.0090	-2.5 to 2.5	Pass	
	0	3.8	-14.105	-0.0081	-2.5 to 2.5	Pass		
		10	3.8	-14.369	-0.0083	-2.5 to 2.5	Pass	
		30	3.8	-14.985	-0.0086	-2.5 to 2.5	Pass	
	40	3.8	-12.932	-0.0075	-2.5 to 2.5	Pass		
		3.8	-14.741	-0.0085	-2.5 to 2.5	Pass		
		20	3.46	-10.972	-0.0063	-2.5 to 2.5	Pass	
			3.8	-10.307	-0.0059	-2.5 to 2.5	Pass	
			4.35	-11.394	-0.0065	-2.5 to 2.5	Pass	
		-30	3.8	-9.913	-0.0057	-2.5 to 2.5	Pass	
	-20		3.8	-12.567	-0.0072	-2.5 to 2.5	Pass	
			3.8	-10.493	-0.0060	-2.5 to 2.5	Pass	
	0	3.8	-9.799	-0.0056	-2.5 to 2.5	Pass		
		10	3.8	-10.965	-0.0063	-2.5 to 2.5	Pass	
		30	3.8	-8.969	-0.0051	-2.5 to 2.5	Pass	
	40	3.8	-9.634	-0.0055	-2.5 to 2.5	Pass		
		3.8	-7.904	-0.0045	-2.5 to 2.5	Pass		
		20	3.46	-8.726	-0.0051	-2.5 to 2.5	Pass	
			3.8	-13.068	-0.0076	-2.5 to 2.5	Pass	
			4.35	-7.403	-0.0043	-2.5 to 2.5	Pass	
		-30	3.8	-7.961	-0.0046	-2.5 to 2.5	Pass	
	-20		3.8	-11.530	-0.0067	-2.5 to 2.5	Pass	
			3.8	-8.168	-0.0048	-2.5 to 2.5	Pass	
	0	3.8	-7.861	-0.0046	-2.5 to 2.5	Pass		
		10	3.8	-10.536	-0.0062	-2.5 to 2.5	Pass	
		30	3.8	-11.816	-0.0069	-2.5 to 2.5	Pass	
	40	3.8	-12.116	-0.0071	-2.5 to 2.5	Pass		
		3.8	-13.647	-0.0080	-2.5 to 2.5	Pass		
		20	3.46	-13.261	-0.0077	-2.5 to 2.5	Pass	
			3.8	-21.966	-0.0127	-2.5 to 2.5	Pass	
			4.35	-15.850	-0.0091	-2.5 to 2.5	Pass	
		-30	3.8	-19.577	-0.0113	-2.5 to 2.5	Pass	
-20	3.8		-19.655	-0.0113	-2.5 to 2.5	Pass		
	3.8		-15.063	-0.0087	-2.5 to 2.5	Pass		
0	3.8	-16.229	-0.0094	-2.5 to 2.5	Pass			



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		10	3.8	-16.401	-0.0095	-2.5 to 2.5	Pass
		30	3.8	-16.680	-0.0096	-2.5 to 2.5	Pass
		40	3.8	-13.361	-0.0077	-2.5 to 2.5	Pass
		50	3.8	-12.774	-0.0074	-2.5 to 2.5	Pass
	1752.6	20	3.46	-12.646	-0.0072	-2.5 to 2.5	Pass
			3.8	-17.059	-0.0097	-2.5 to 2.5	Pass
			4.35	-17.145	-0.0098	-2.5 to 2.5	Pass
		-30	3.8	-12.181	-0.0070	-2.5 to 2.5	Pass
		-20	3.8	-13.397	-0.0076	-2.5 to 2.5	Pass
		-10	3.8	-14.999	-0.0086	-2.5 to 2.5	Pass
		0	3.8	-16.136	-0.0092	-2.5 to 2.5	Pass
		10	3.8	-13.089	-0.0075	-2.5 to 2.5	Pass
30		3.8	-9.942	-0.0057	-2.5 to 2.5	Pass	
40		3.8	-14.205	-0.0081	-2.5 to 2.5	Pass	
50		3.8	-13.998	-0.0080	-2.5 to 2.5	Pass	
HSUPA		1712.4	20	3.46	-10.972	-0.0064	-2.5 to 2.5
	3.8			-11.508	-0.0067	-2.5 to 2.5	Pass
	4.35			-20.478	-0.0120	-2.5 to 2.5	Pass
	-30		3.8	-17.281	-0.0101	-2.5 to 2.5	Pass
	-20		3.8	-15.607	-0.0091	-2.5 to 2.5	Pass
	-10		3.8	-14.942	-0.0087	-2.5 to 2.5	Pass
	0		3.8	-15.836	-0.0092	-2.5 to 2.5	Pass
	10		3.8	-14.784	-0.0086	-2.5 to 2.5	Pass
	30		3.8	-14.513	-0.0085	-2.5 to 2.5	Pass
	40		3.8	-16.873	-0.0099	-2.5 to 2.5	Pass
	50		3.8	-20.499	-0.0120	-2.5 to 2.5	Pass
	1732.6		20	3.46	-11.401	-0.0066	-2.5 to 2.5
		3.8		-10.850	-0.0063	-2.5 to 2.5	Pass
		4.35		-11.673	-0.0067	-2.5 to 2.5	Pass
		-30	3.8	-8.833	-0.0051	-2.5 to 2.5	Pass
		-20	3.8	-8.218	-0.0047	-2.5 to 2.5	Pass
		-10	3.8	-12.553	-0.0072	-2.5 to 2.5	Pass
		0	3.8	-17.366	-0.0100	-2.5 to 2.5	Pass
		10	3.8	-16.136	-0.0093	-2.5 to 2.5	Pass
		30	3.8	-14.112	-0.0081	-2.5 to 2.5	Pass
		40	3.8	-13.461	-0.0078	-2.5 to 2.5	Pass
		50	3.8	-12.338	-0.0071	-2.5 to 2.5	Pass
		1752.6	20	3.46	-9.313	-0.0053	-2.5 to 2.5
	3.8			-11.208	-0.0064	-2.5 to 2.5	Pass
4.35	-13.862			-0.0079	-2.5 to 2.5	Pass	
-30	3.8		-11.473	-0.0065	-2.5 to 2.5	Pass	
-20	3.8		-10.836	-0.0062	-2.5 to 2.5	Pass	
-10	3.8		-8.490	-0.0048	-2.5 to 2.5	Pass	
0	3.8		-9.019	-0.0051	-2.5 to 2.5	Pass	
10	3.8		-4.299	-0.0025	-2.5 to 2.5	Pass	
30	3.8		-5.701	-0.0033	-2.5 to 2.5	Pass	
40	3.8		-8.376	-0.0048	-2.5 to 2.5	Pass	
50	3.8		-5.157	-0.0029	-2.5 to 2.5	Pass	

3. Modulation Characteristics

3.1 Band4



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3.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1732.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1732.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	1732.6	Refer To Test Graph		Pass



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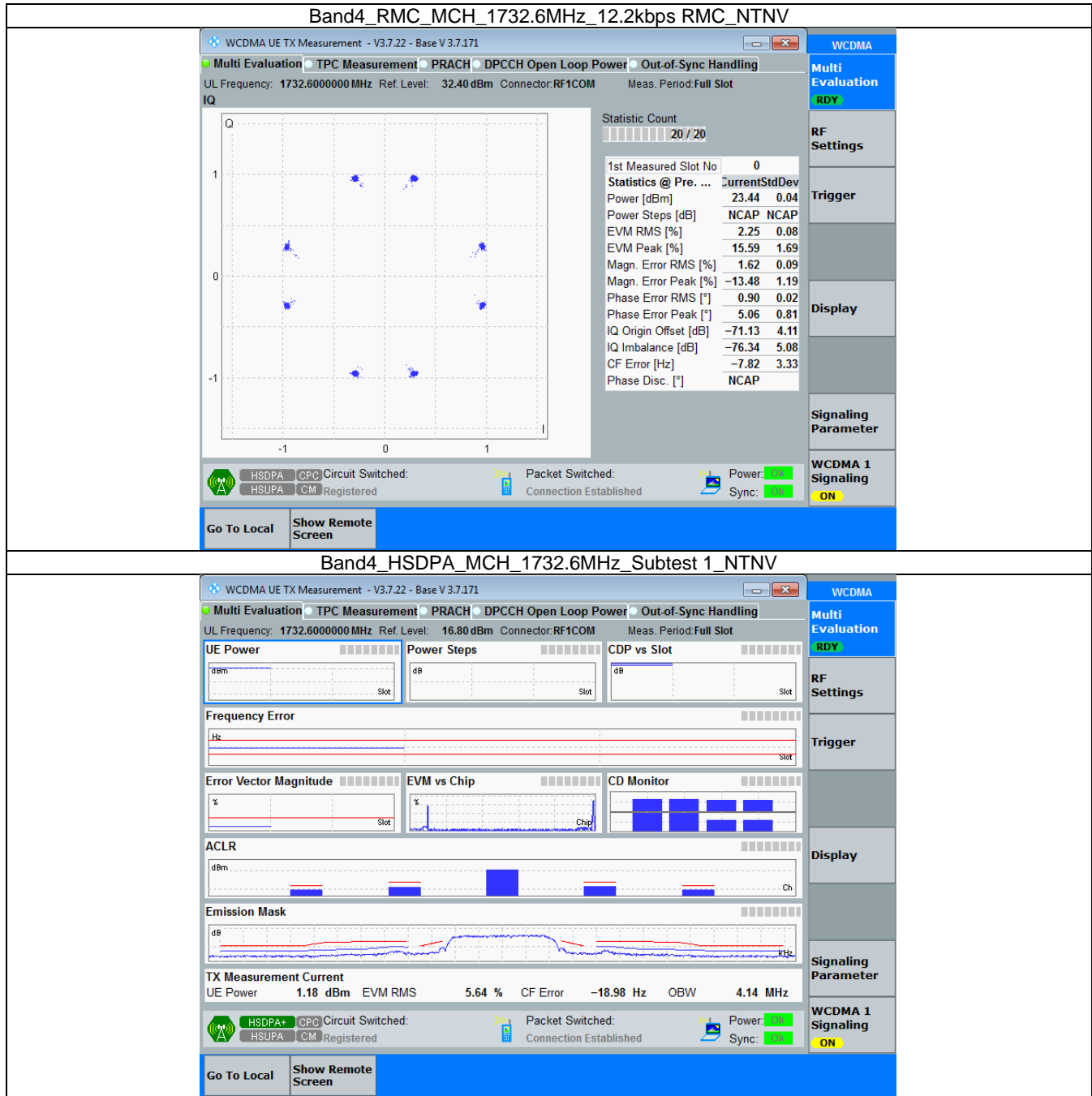
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3.1.2 Test Graph

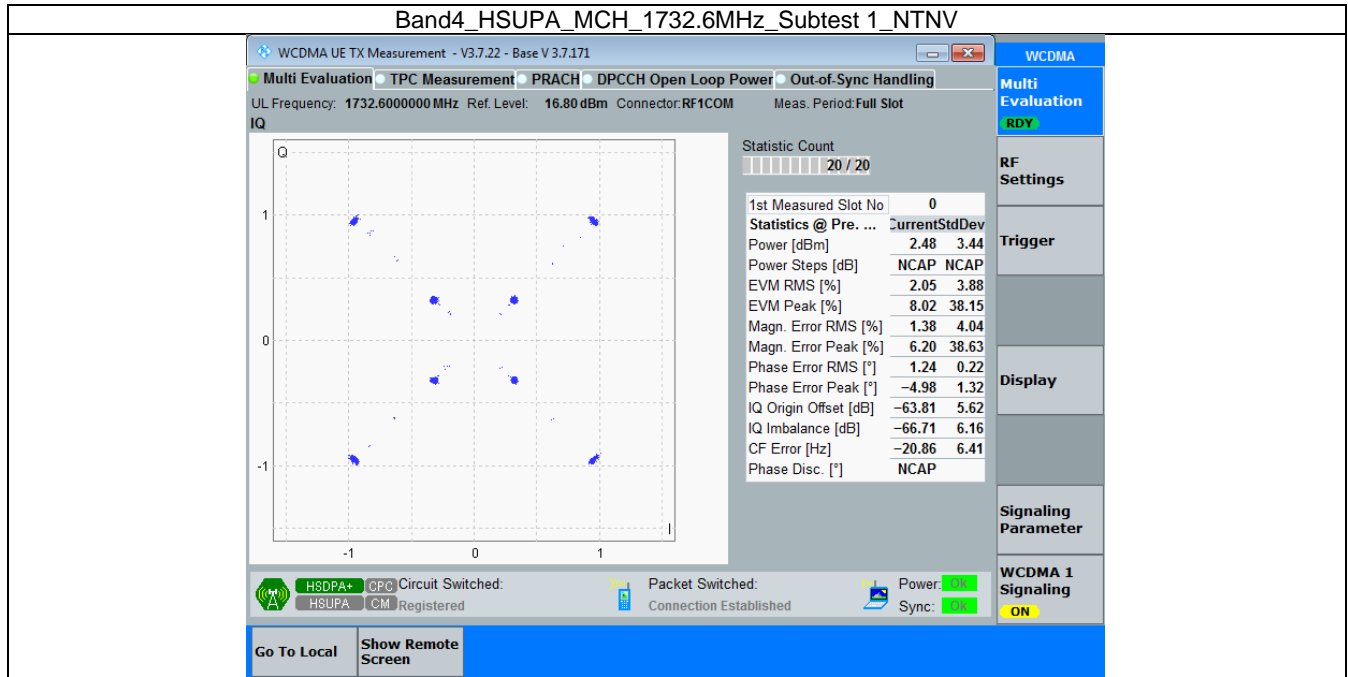


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4. 99% & 26dB Bandwidth

4.1 Band4_OBW

4.1.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.171	Pass
			1732.6	4.175	Pass
			1752.6	4.187	Pass
	HSDPA	Subtest 1	1712.4	4.254	Pass
			1732.6	4.231	Pass
			1752.6	4.244	Pass
	HSUPA	Subtest 1	1712.4	4.254	Pass
			1732.6	4.240	Pass
			1752.6	4.262	Pass

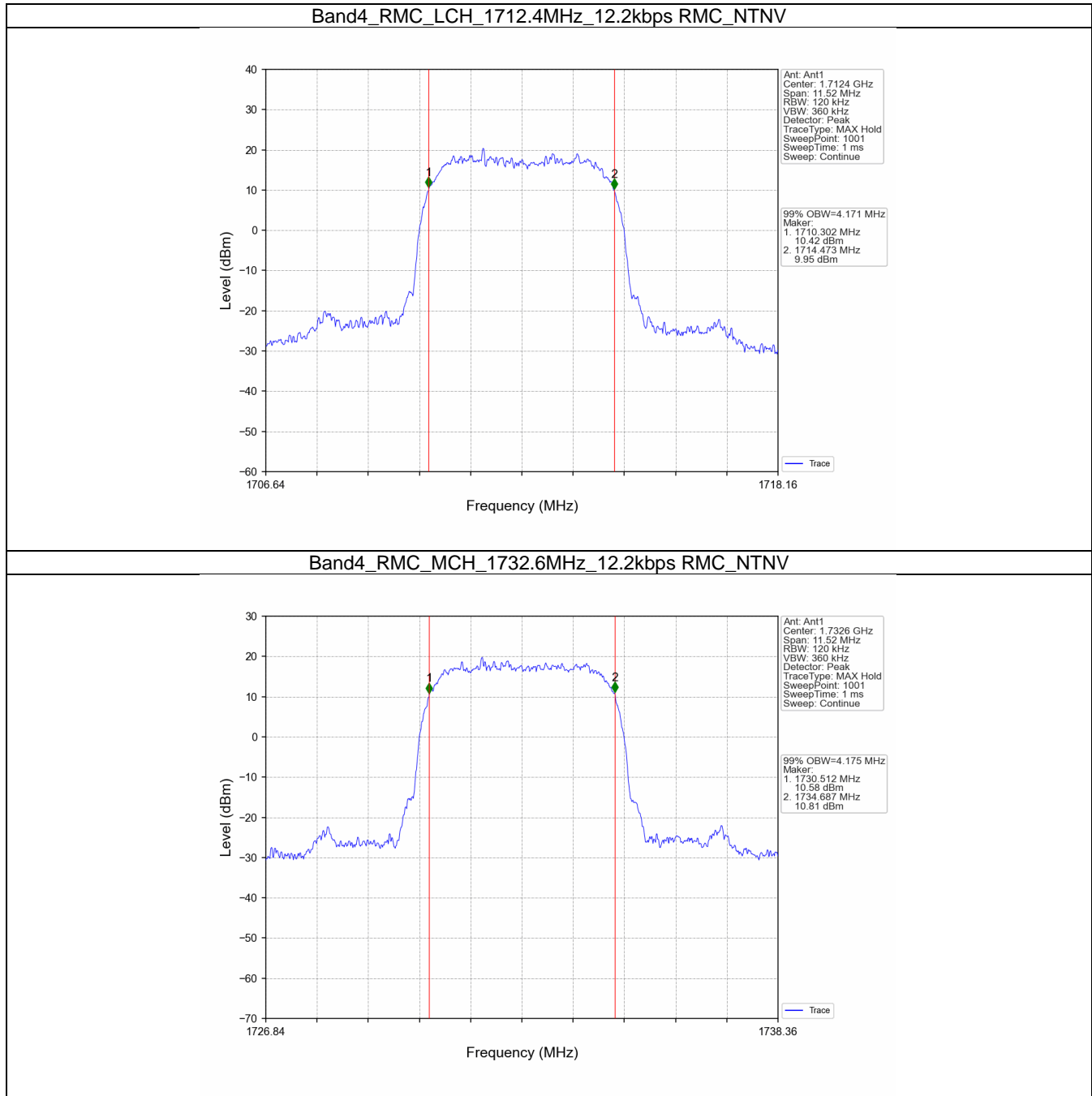


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4.1.2 Test Graph



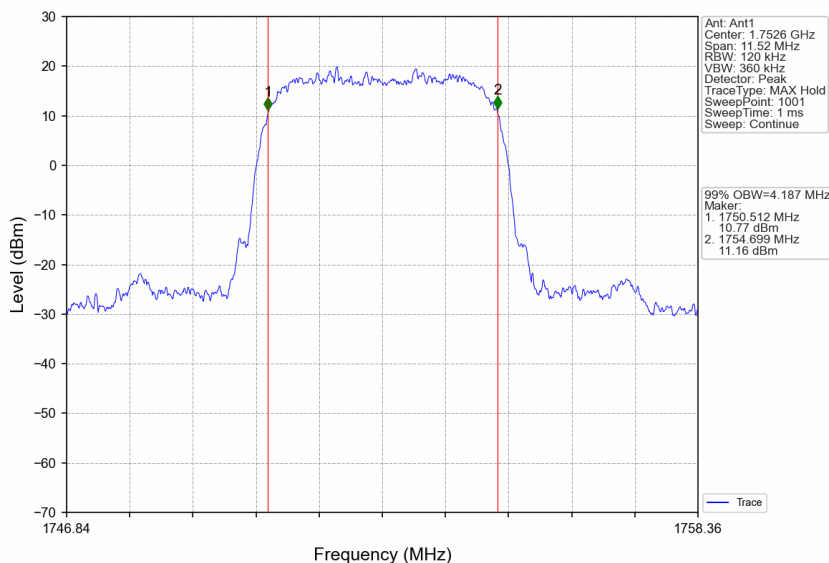
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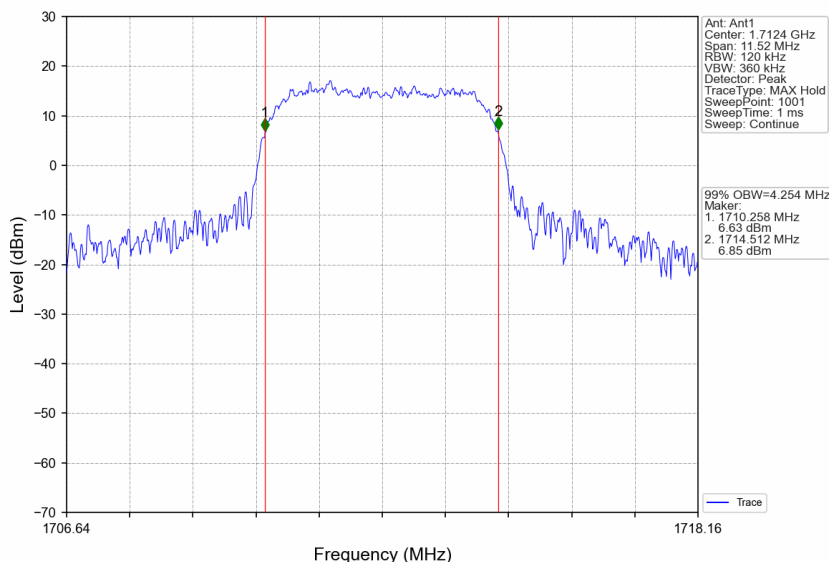
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Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



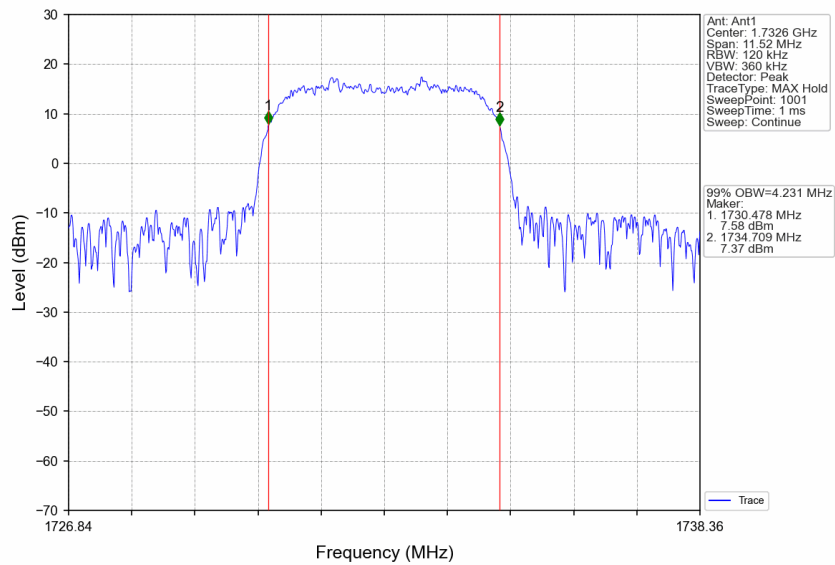
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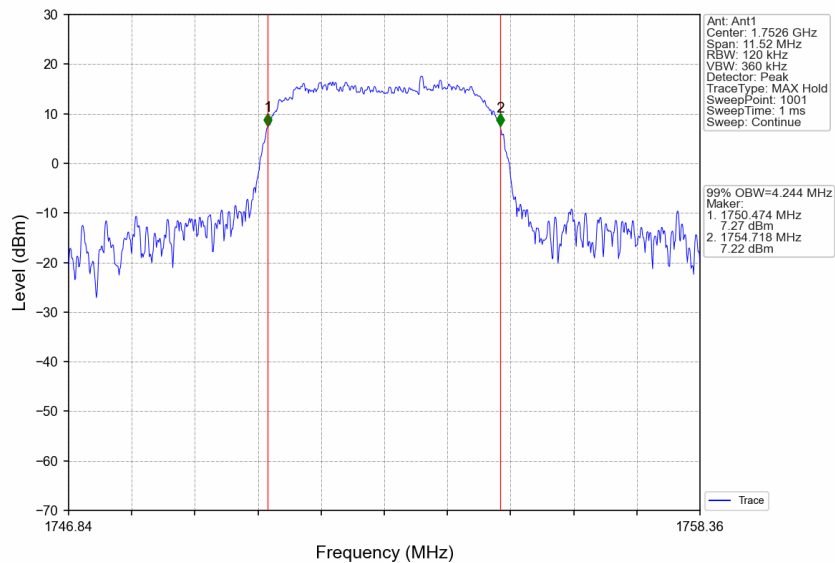
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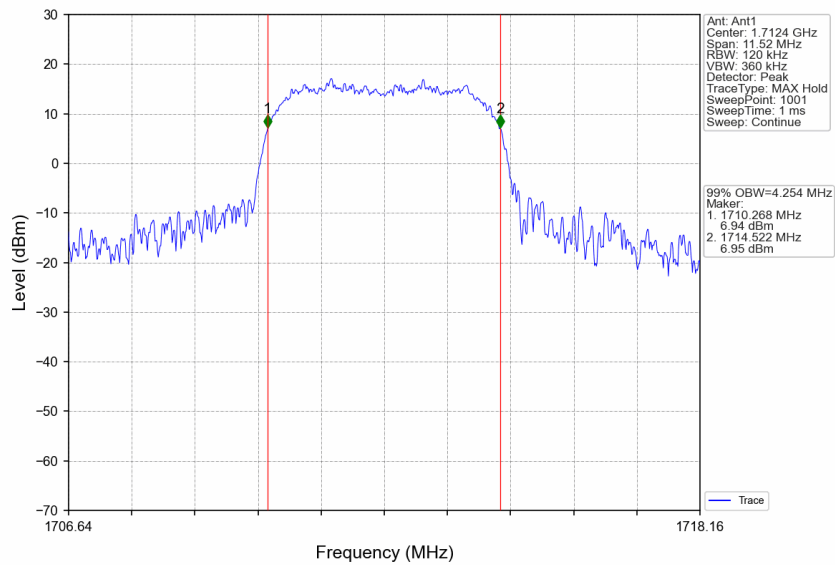
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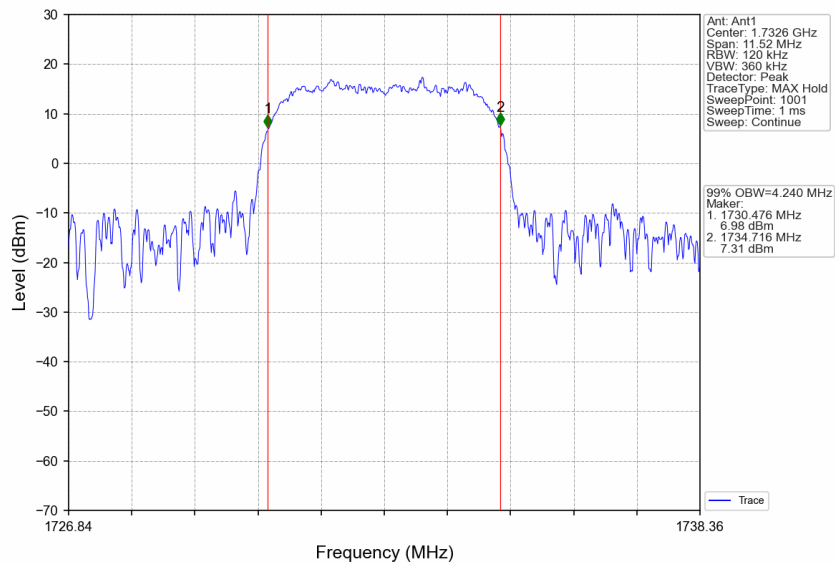
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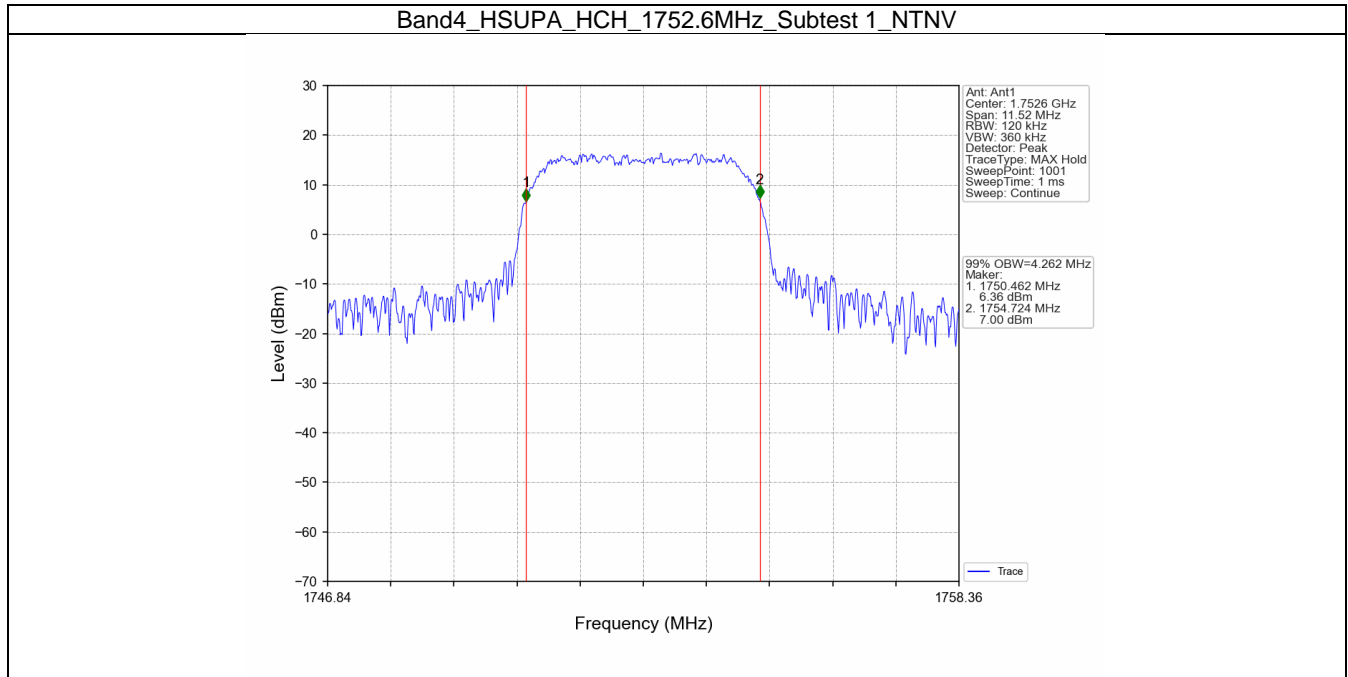


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4.2 Band4_XDB

4.2.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.705	Pass
			1732.6	4.722	Pass
			1752.6	4.722	Pass
	HSDPA	Subtest 1	1712.4	5.656	Pass
			1732.6	4.948	Pass
			1752.6	5.009	Pass
	HSUPA	Subtest 1	1712.4	6.709	Pass
			1732.6	6.952	Pass
			1752.6	6.737	Pass

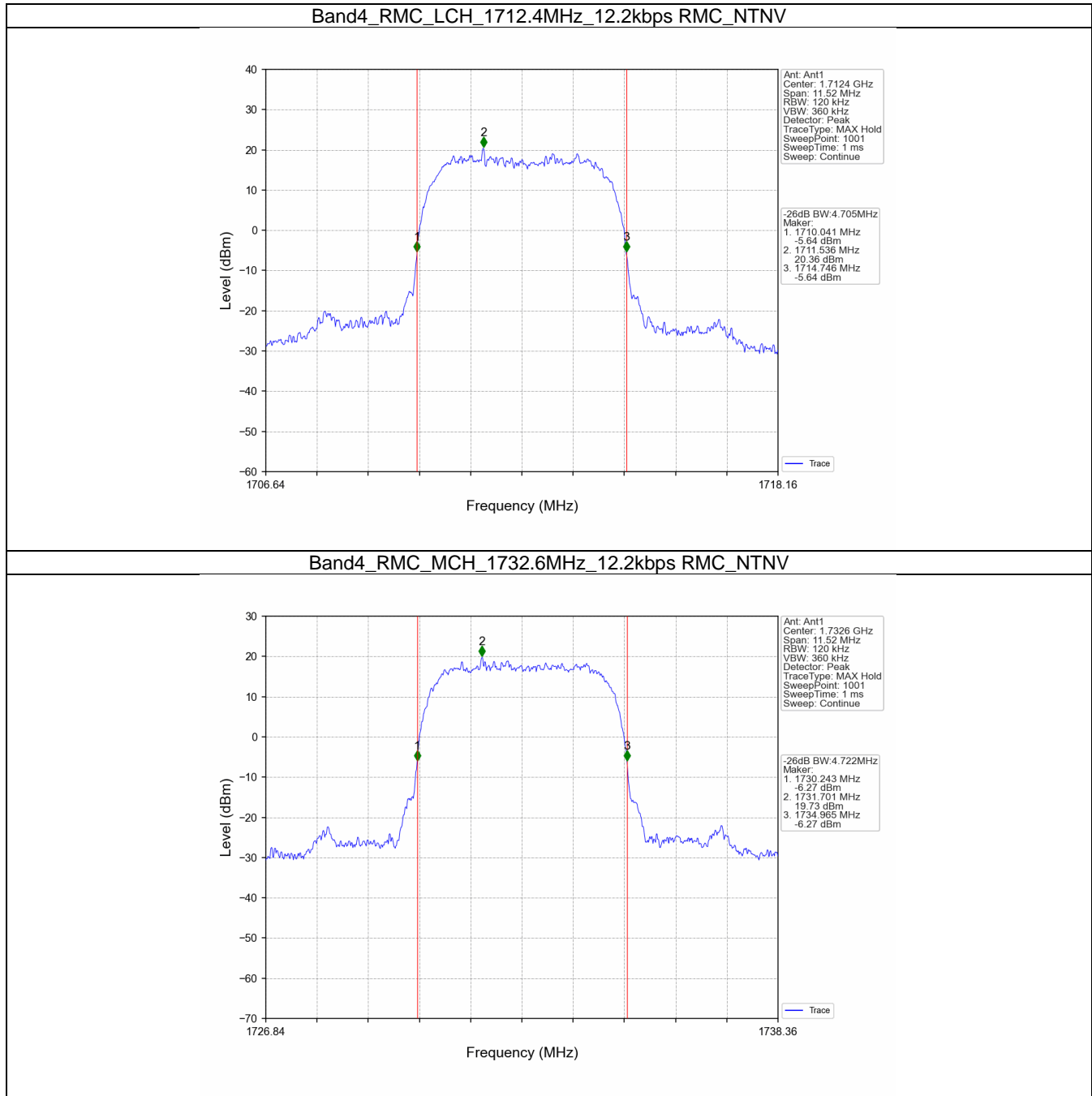


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4.2.2 Test Graph



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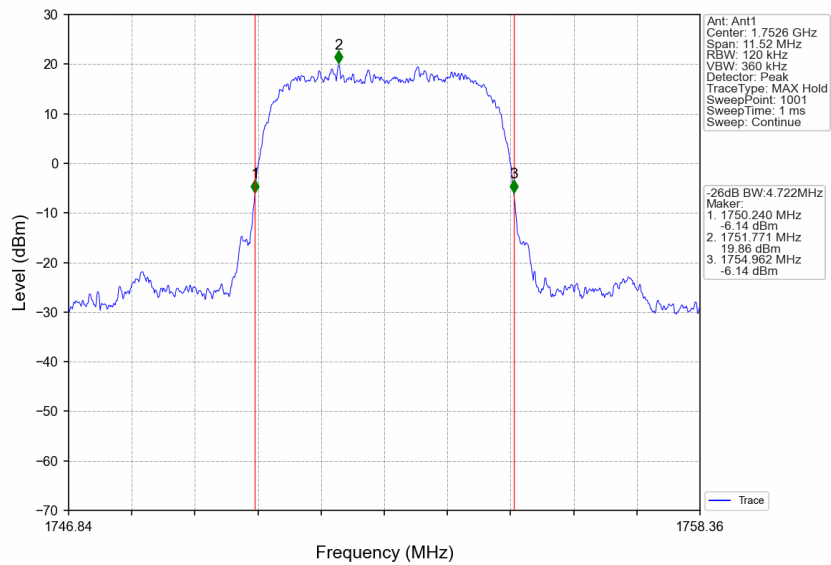
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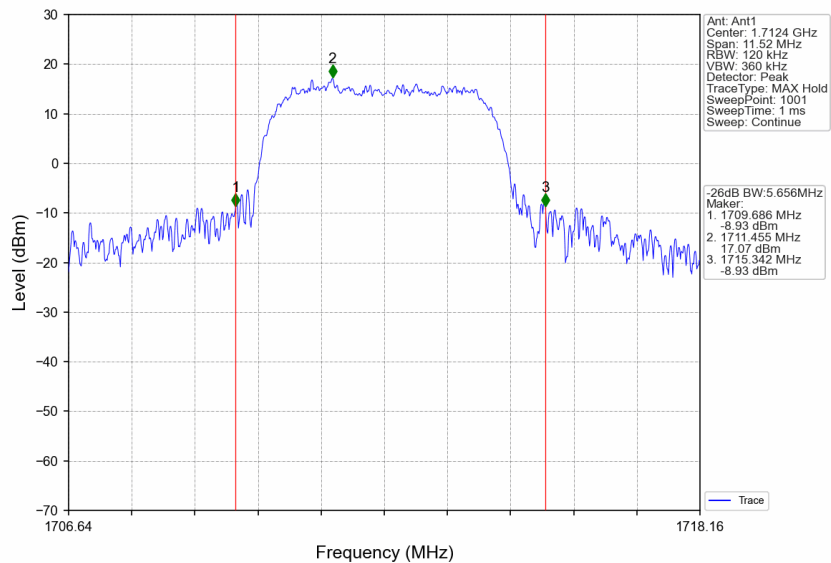
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Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



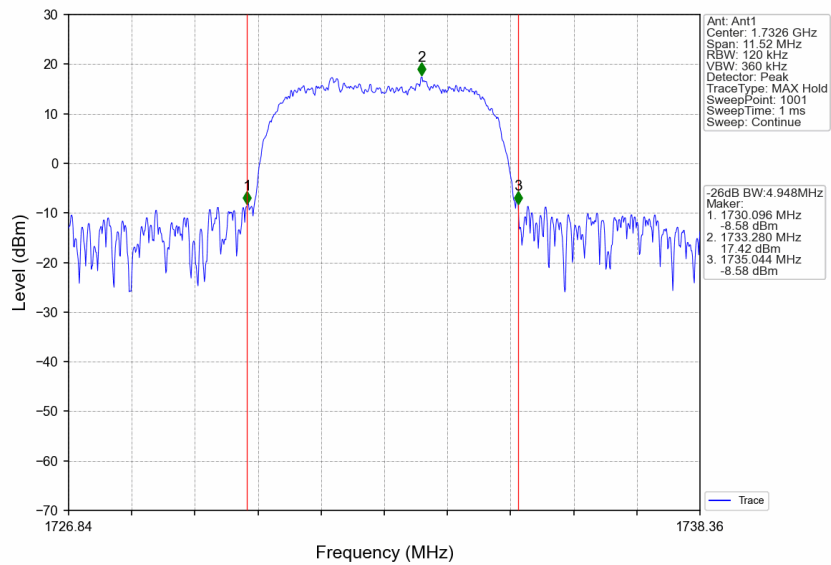
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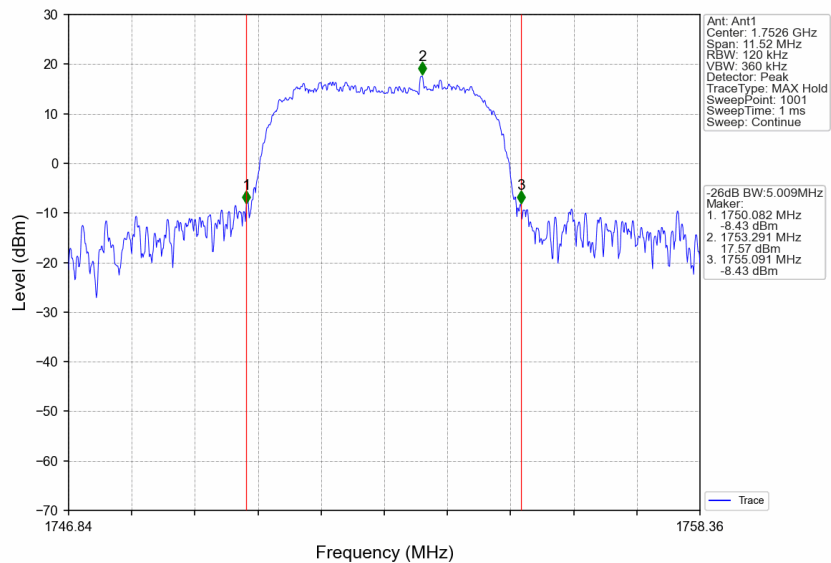
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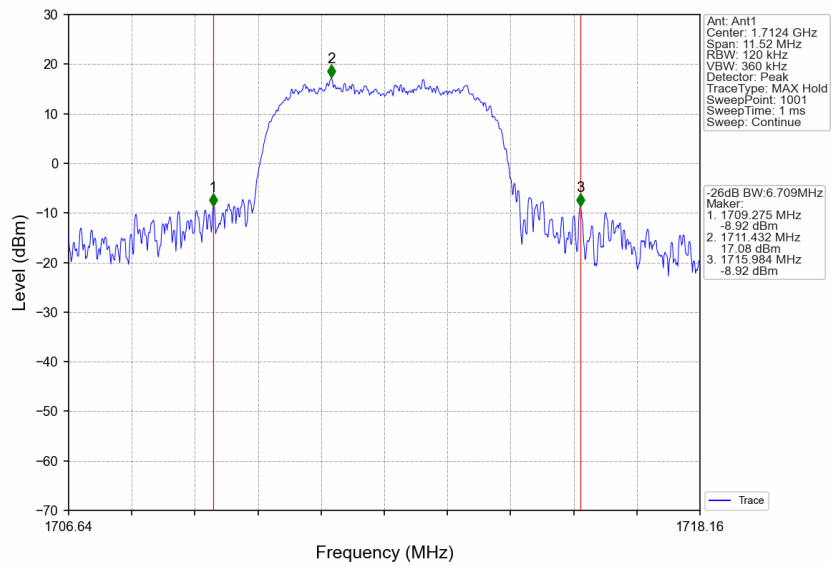
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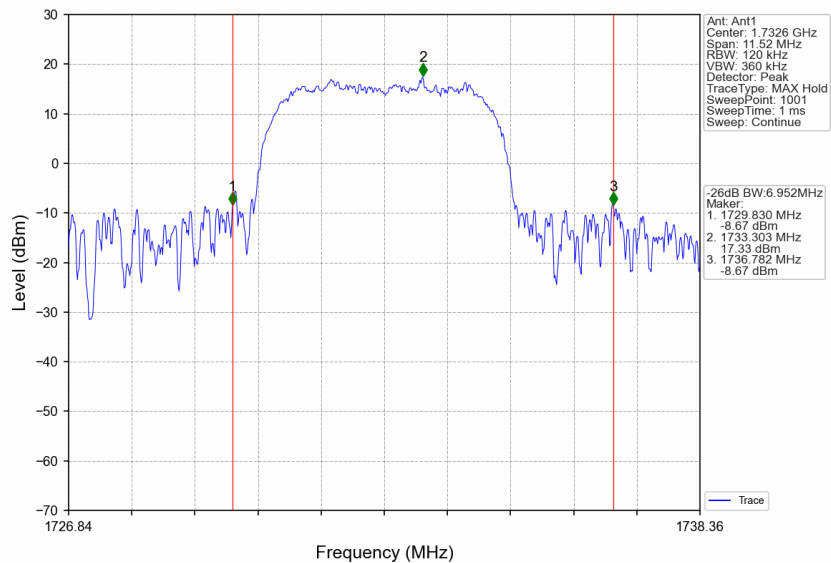


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EMC Laboratory

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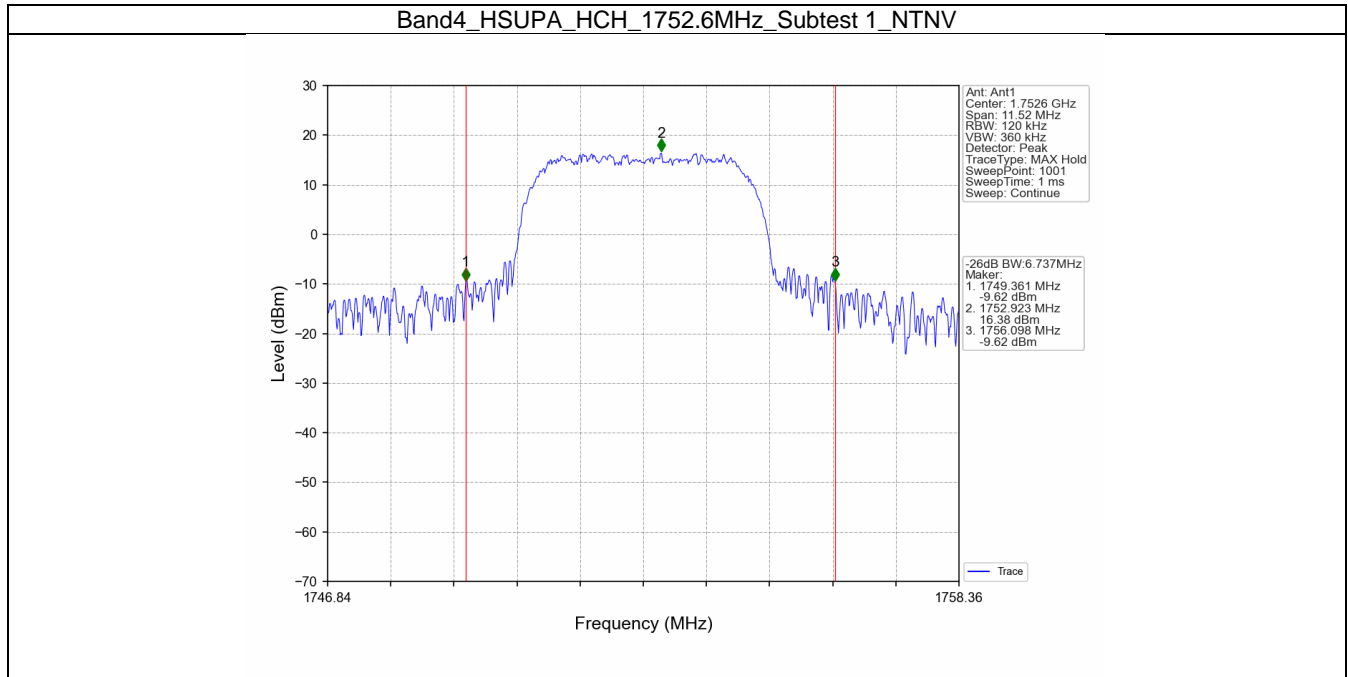


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5. Peak-Average Ratio

5.1 Band4

5.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.08	<=13	Pass
			1732.6	3.00	<=13	Pass
			1752.6	3.03	<=13	Pass
	HSDPA	Subtest 1	1712.4	6.06	<=13	Pass
			1732.6	5.99	<=13	Pass
			1752.6	5.98	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.08	<=13	Pass
			1732.6	5.99	<=13	Pass
			1752.6	6.03	<=13	Pass



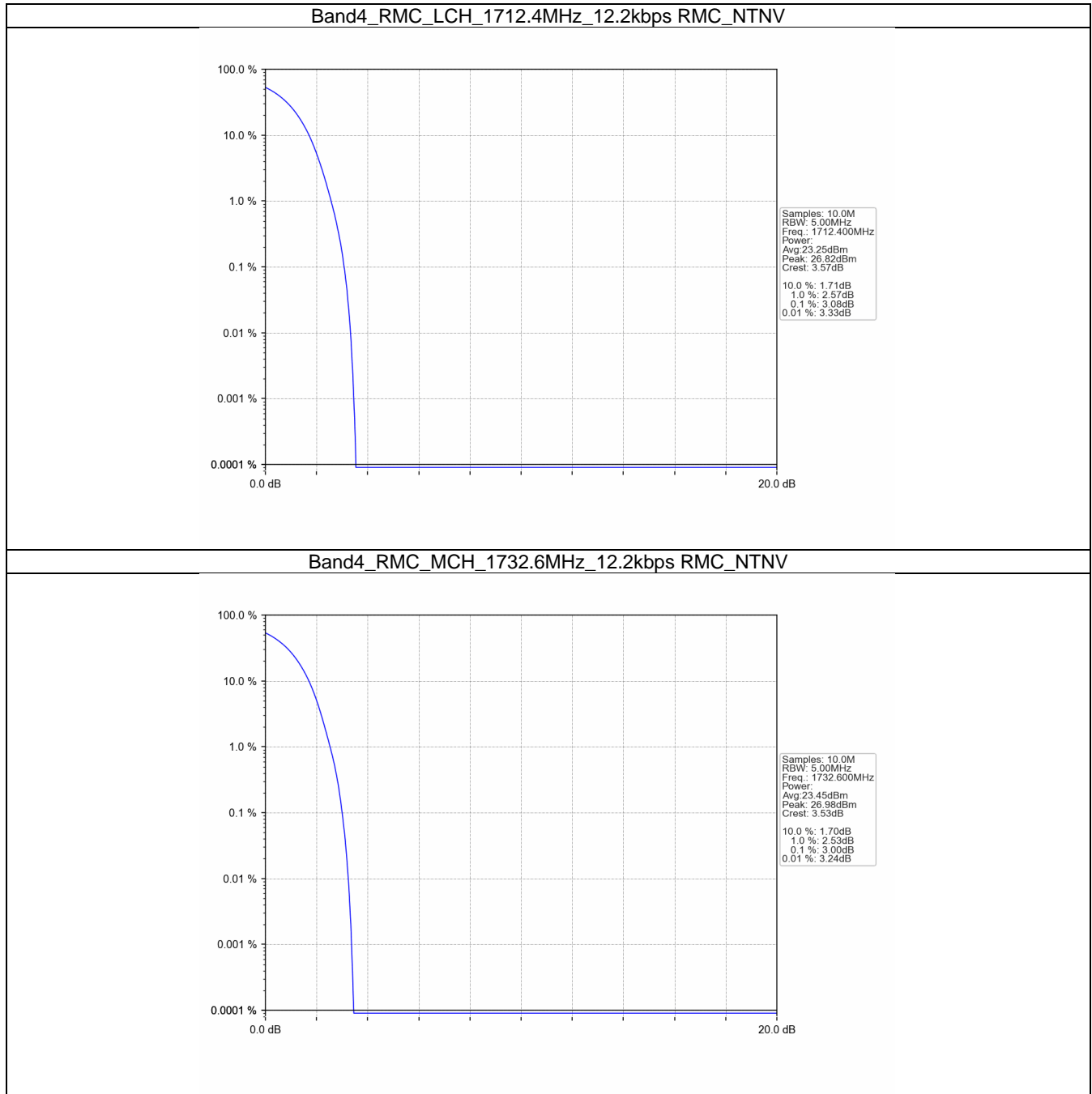
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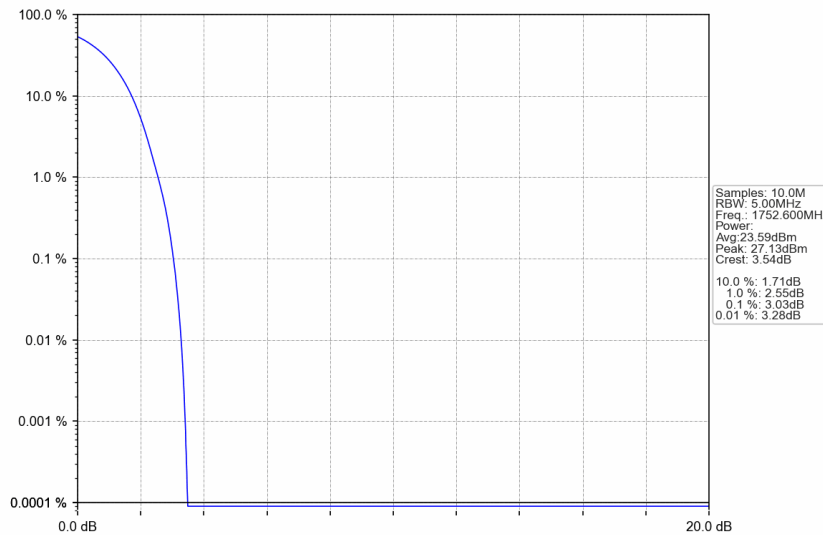


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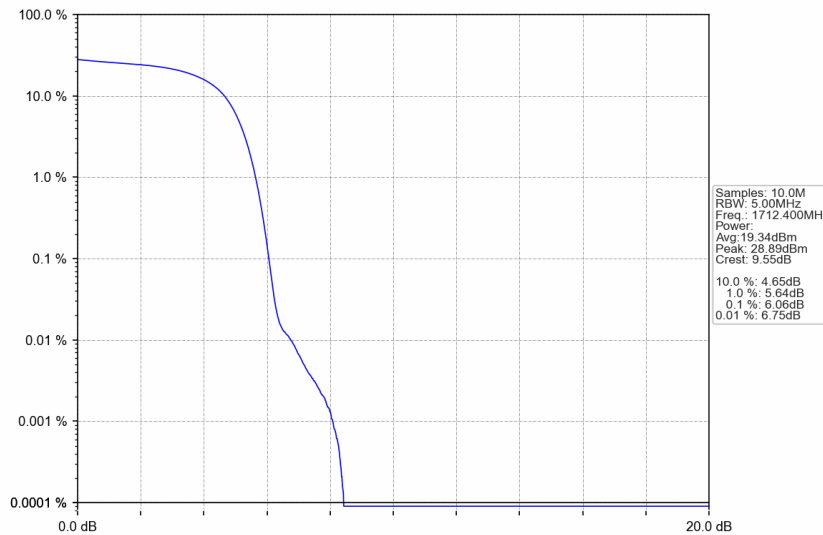
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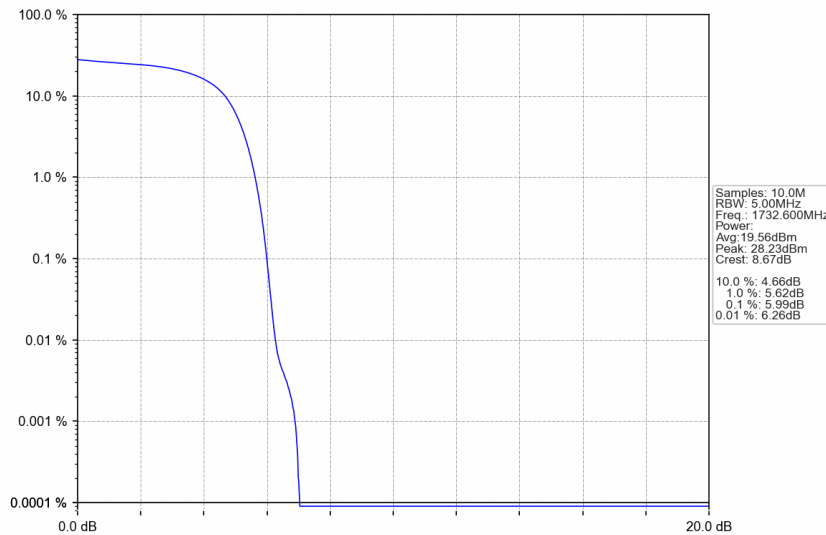
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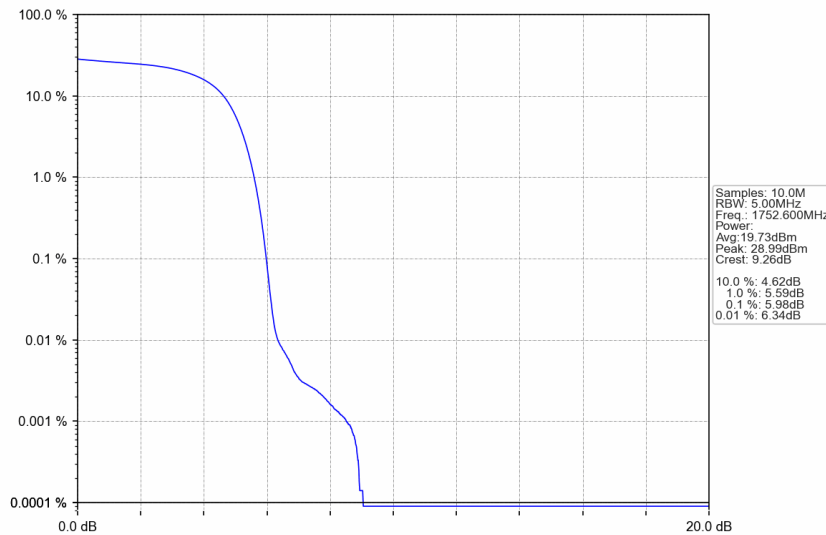
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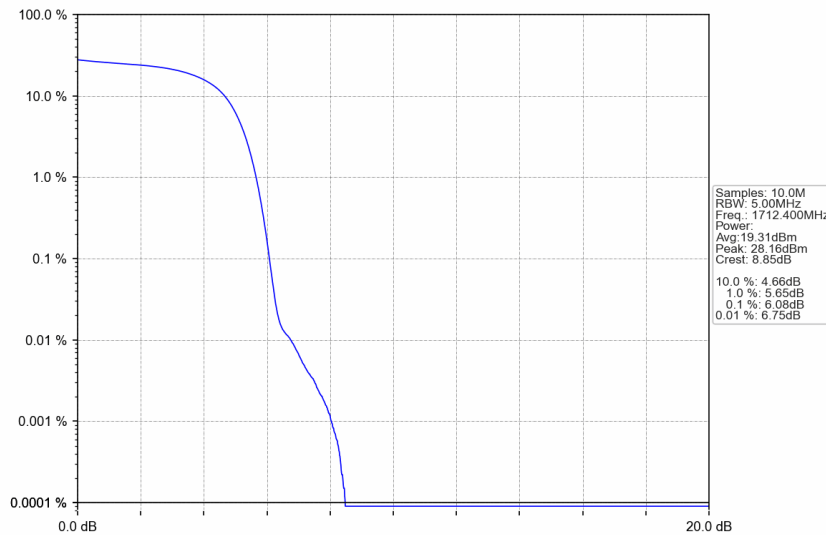
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTV



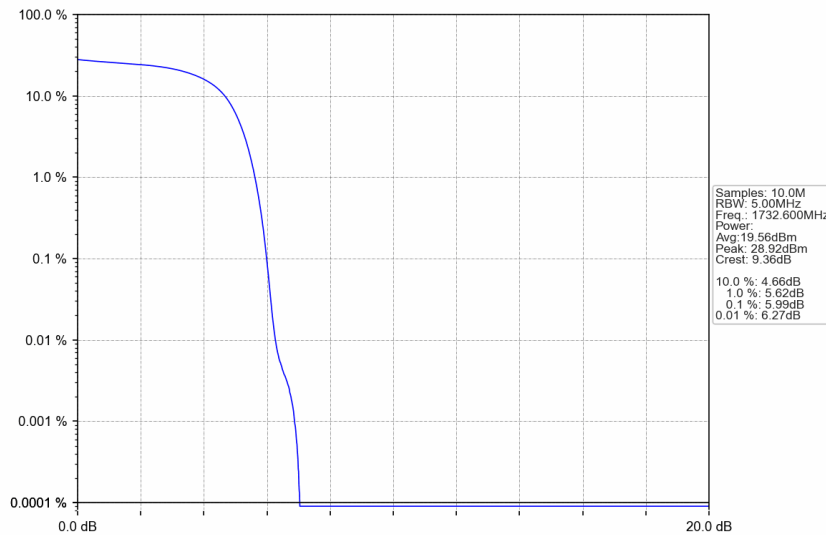
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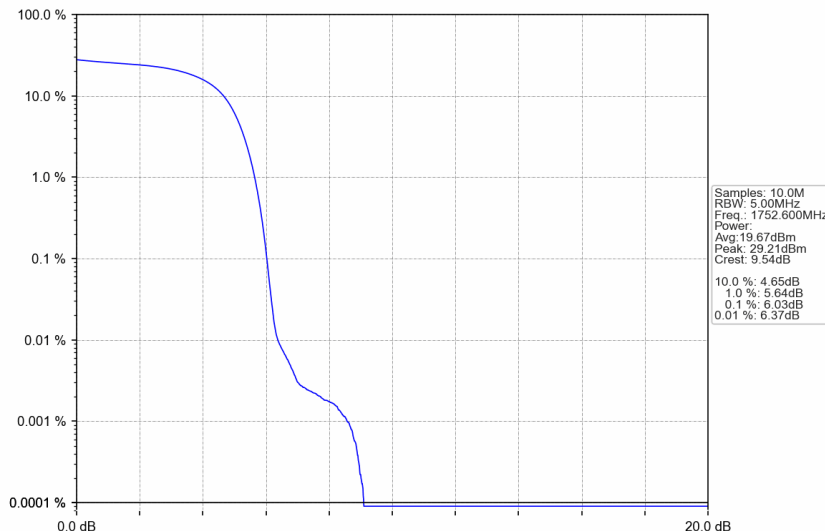
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6. Spurious Emission

6.1 Band4

6.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	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	
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	



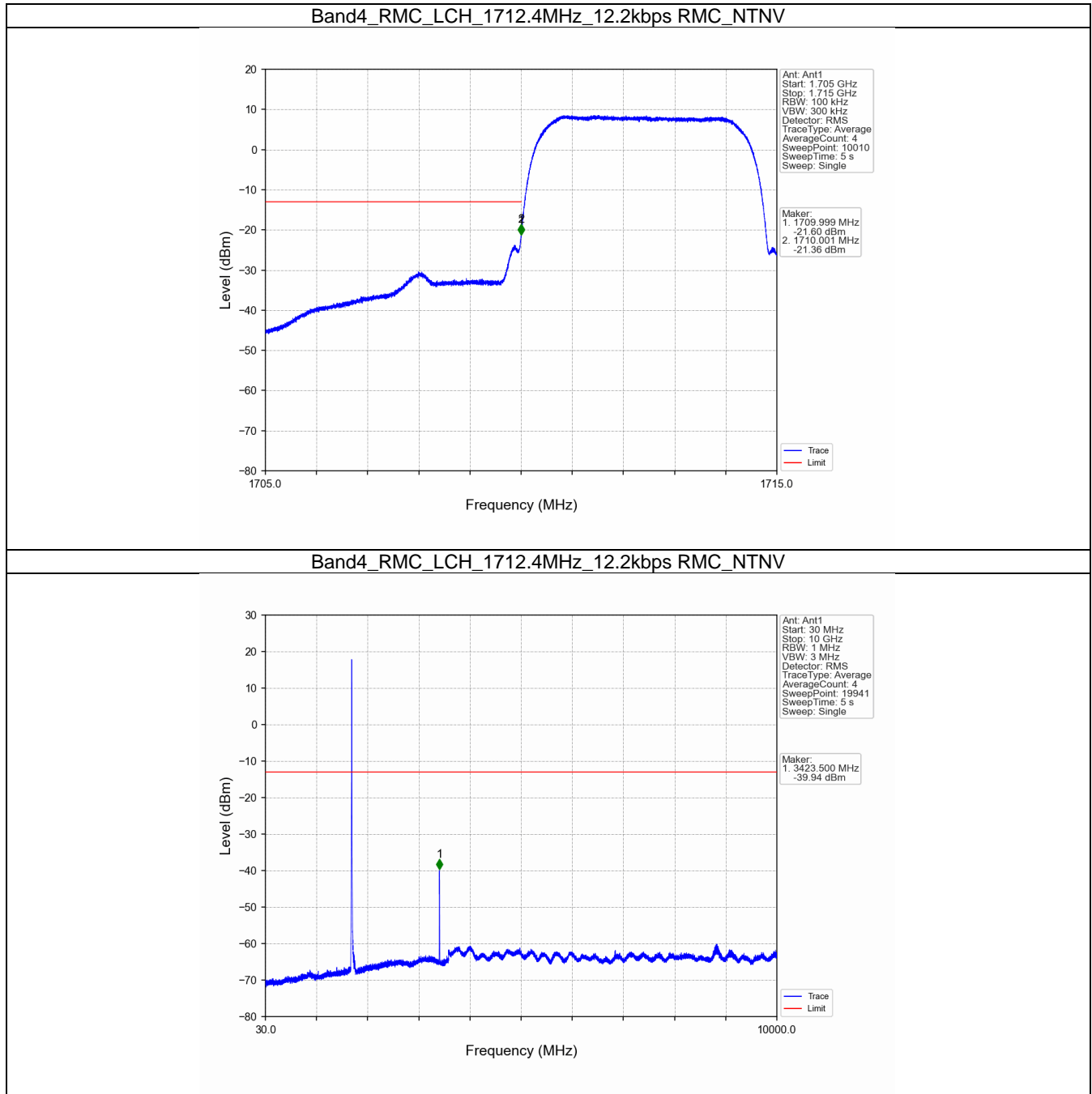
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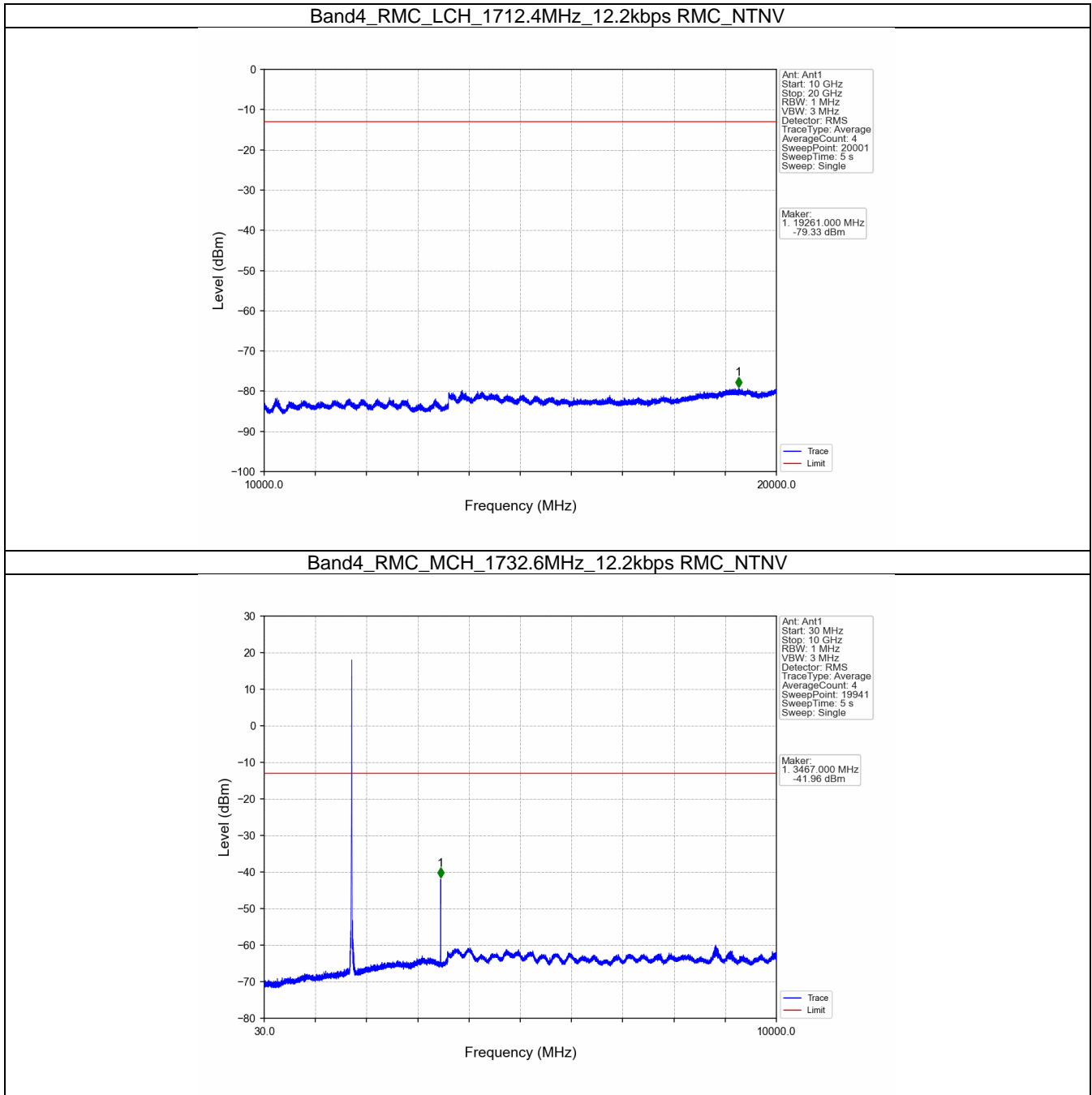
6.1.2 Test Graph



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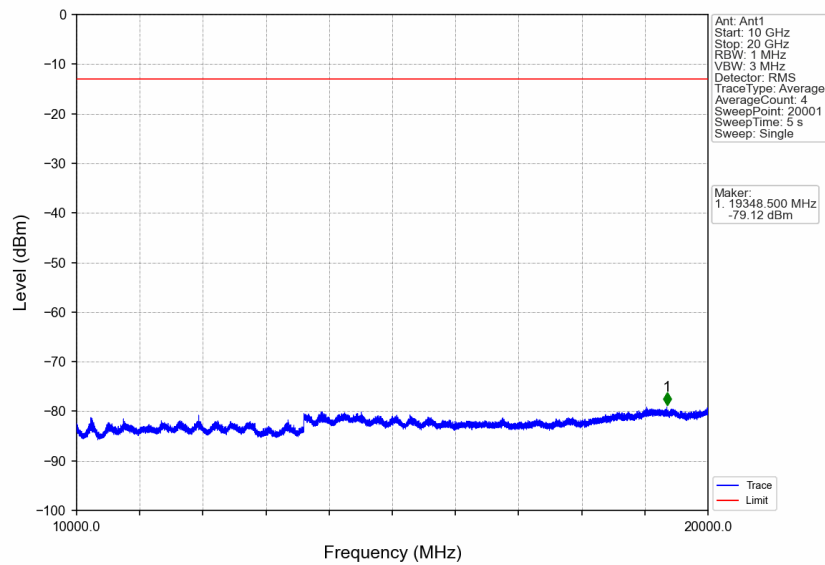
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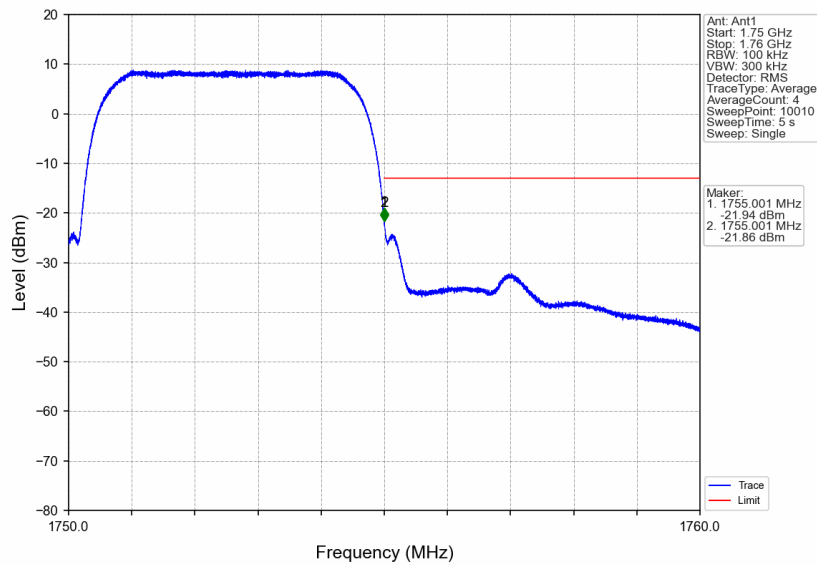
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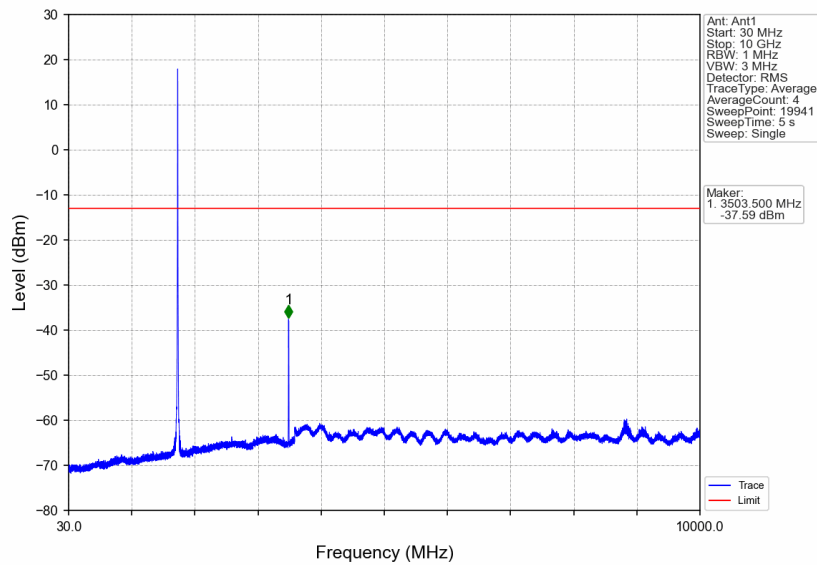
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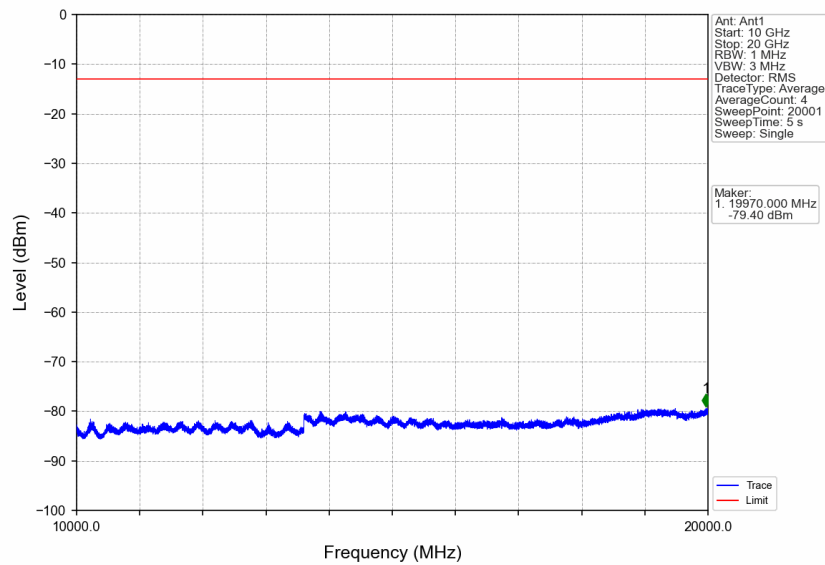
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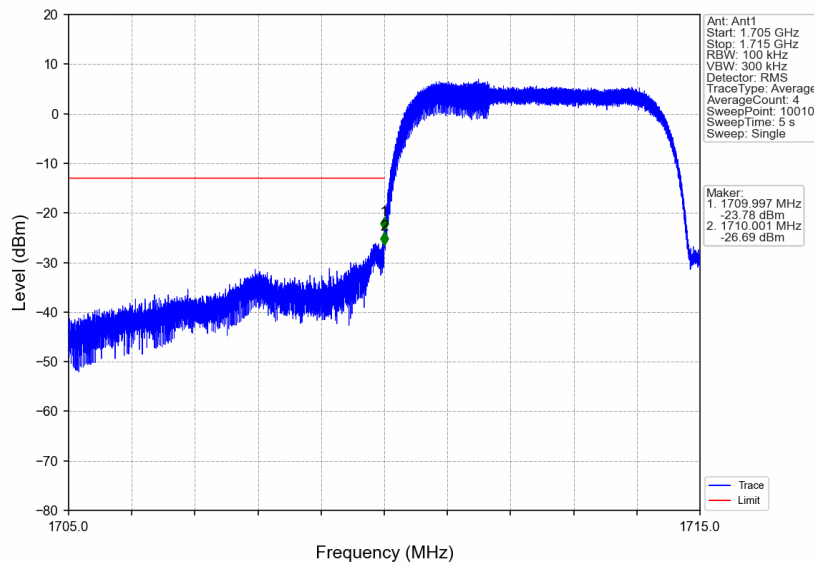
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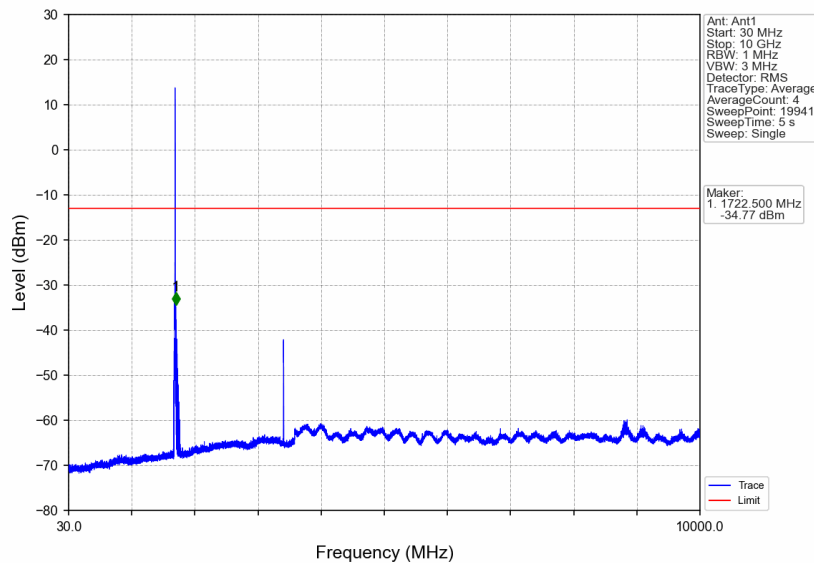


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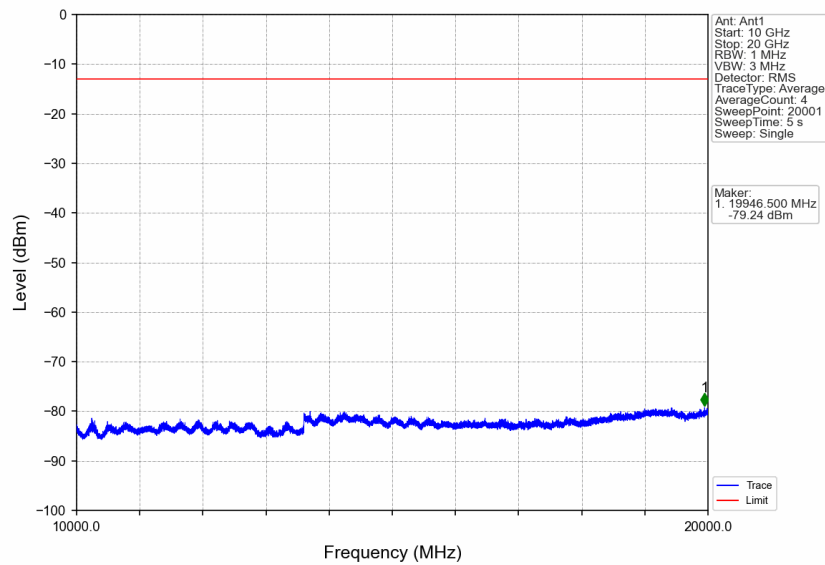
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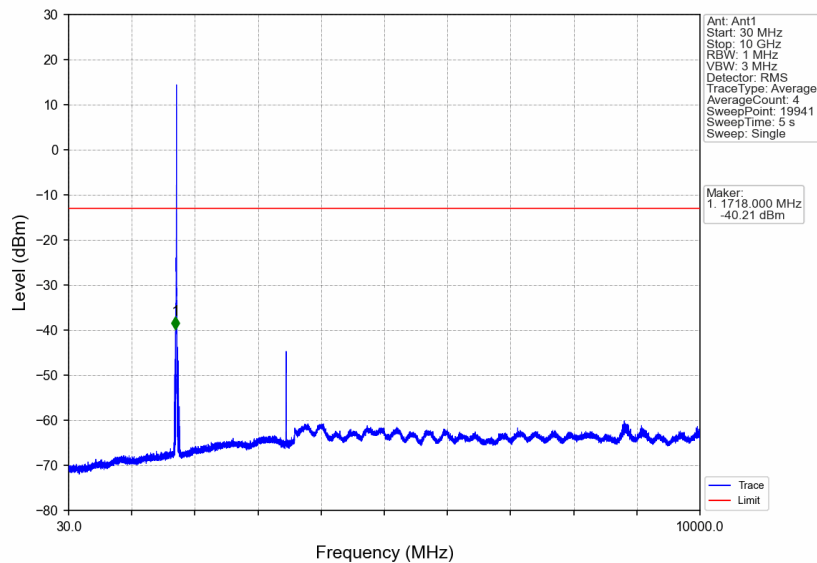
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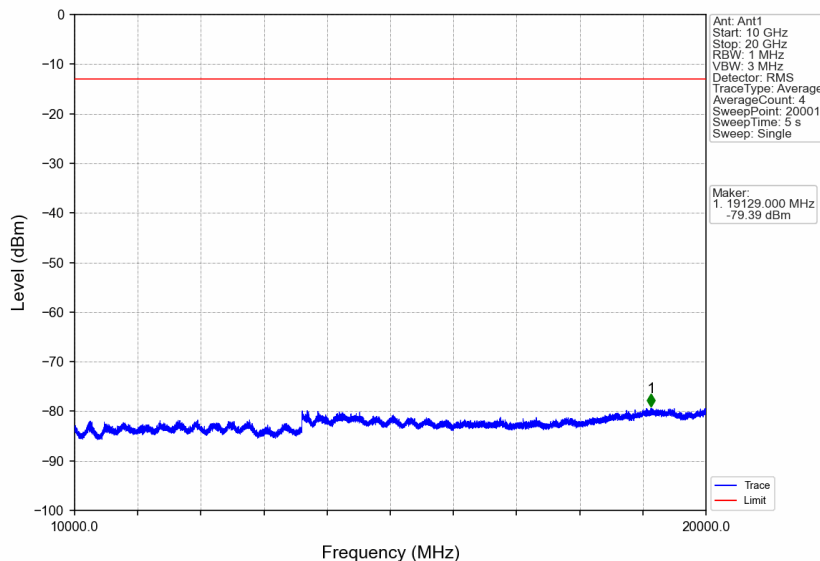
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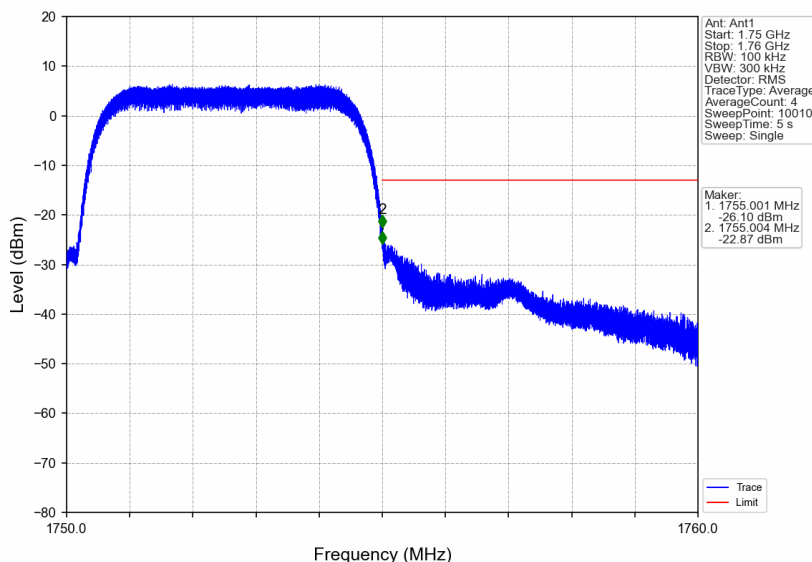
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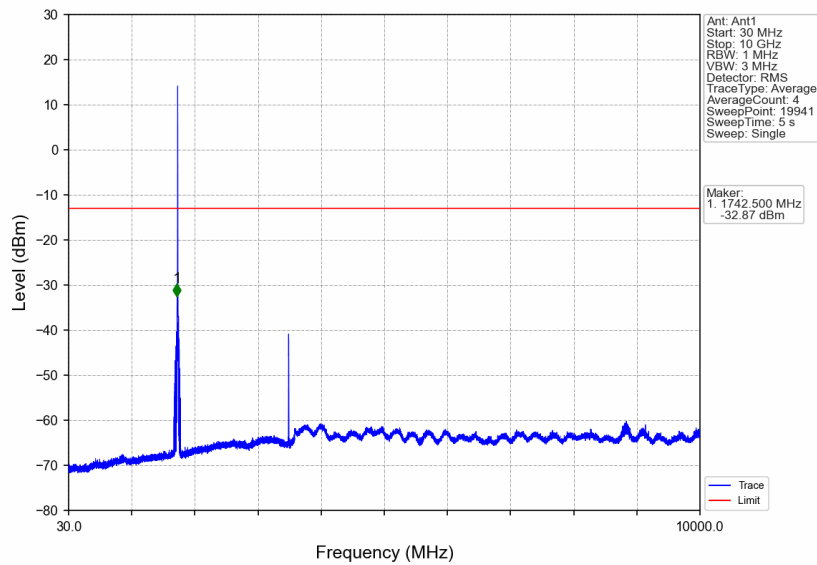
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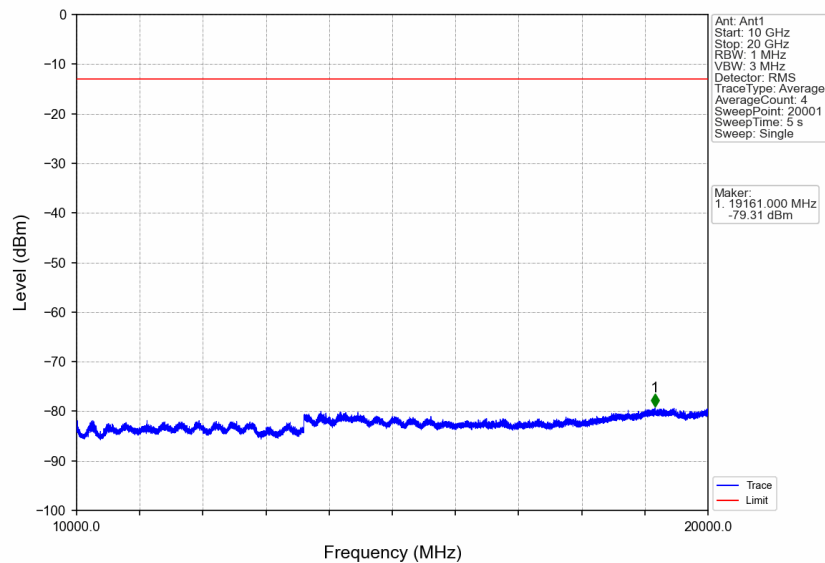
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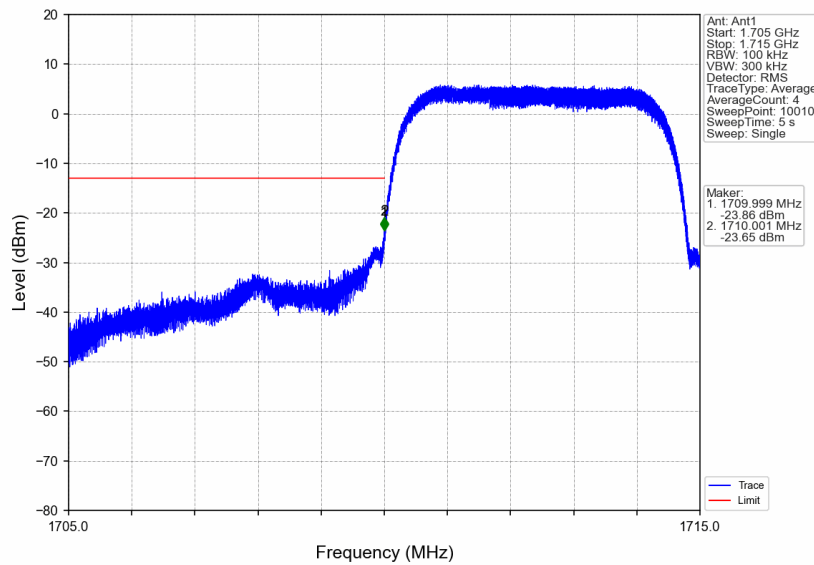
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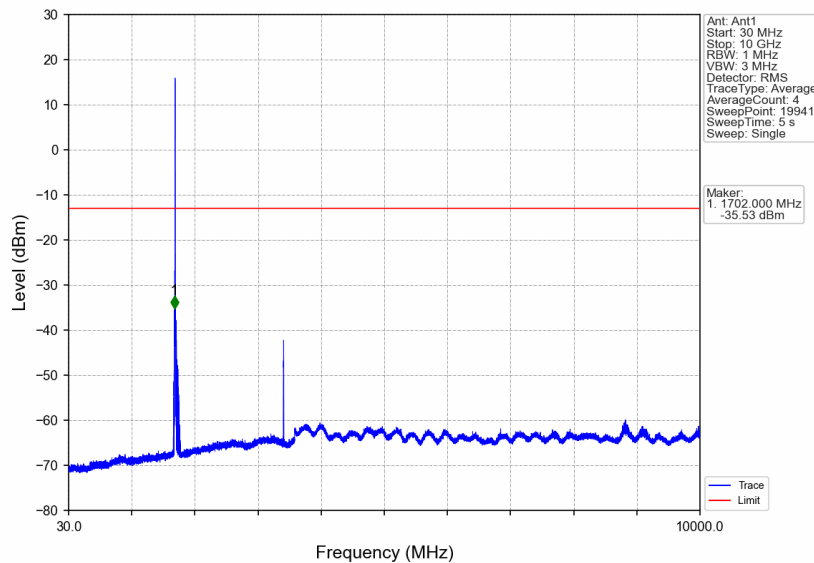
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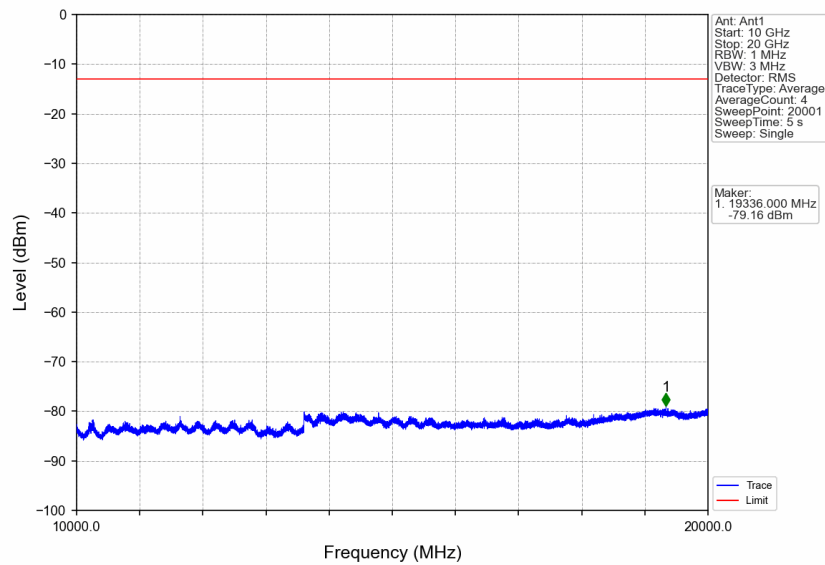
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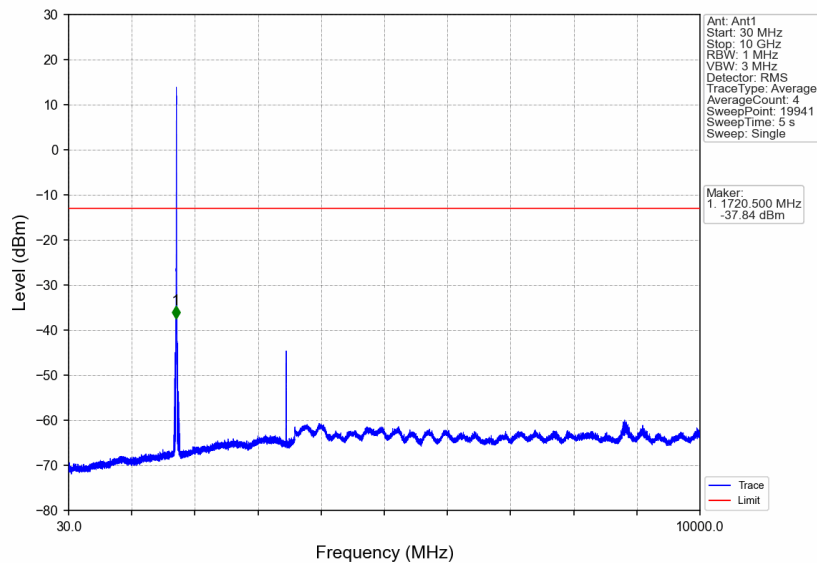
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Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



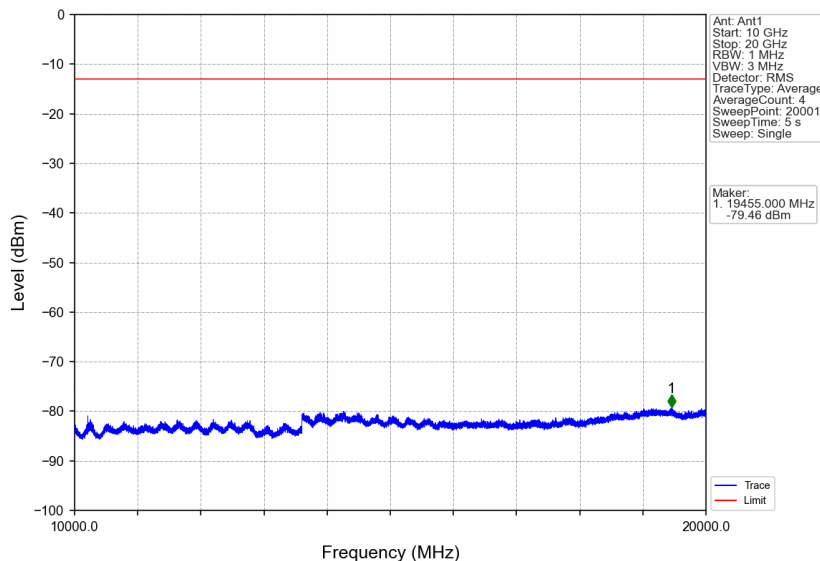
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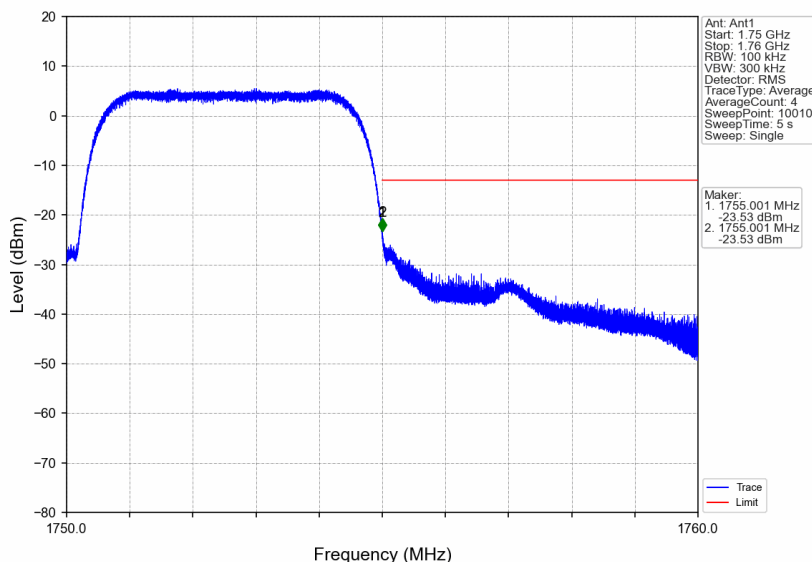
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Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



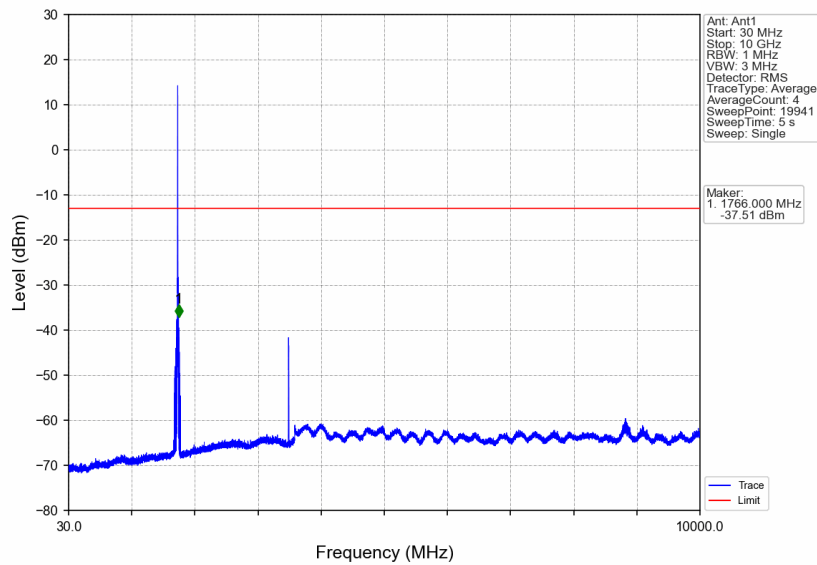
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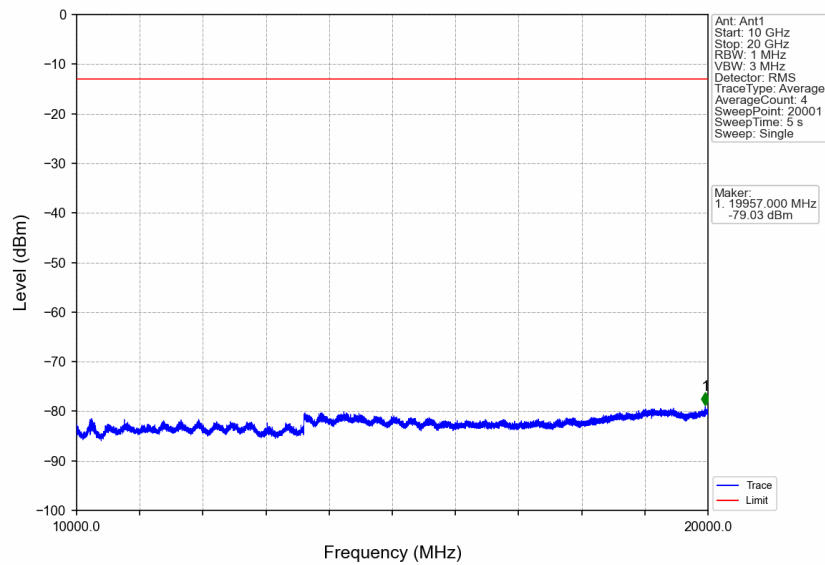
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