

Appendix H for KSCR220400050307

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	24.36	0.40	24.76	<=30	Pass	
			1732.6	25.04	0.40	25.44	<=30	Pass	
			1752.6	23.86	0.40	24.26	<=30	Pass	
	HSDPA		Subtest 1	1712.4	22.56	0.40	22.96	<=30	Pass
			Subtest 2	1712.4	22.57	0.40	22.97	<=30	Pass
			Subtest 3	1712.4	22.55	0.40	22.95	<=30	Pass
			Subtest 4	1712.4	22.38	0.40	22.78	<=30	Pass
			Subtest 1	1732.6	23.13	0.40	23.53	<=30	Pass
			Subtest 2	1732.6	23.11	0.40	23.51	<=30	Pass
			Subtest 3	1732.6	23.19	0.40	23.59	<=30	Pass
			Subtest 4	1732.6	23.27	0.40	23.67	<=30	Pass
			Subtest 1	1752.6	22.31	0.40	22.71	<=30	Pass
			Subtest 2	1752.6	22.26	0.40	22.66	<=30	Pass
			Subtest 3	1752.6	22.28	0.40	22.68	<=30	Pass
			Subtest 4	1752.6	22.33	0.40	22.73	<=30	Pass
	HSUPA		Subtest 1	1712.4	21.28	0.40	21.68	<=30	Pass
			Subtest 2	1712.4	20.78	0.40	21.18	<=30	Pass
			Subtest 3	1712.4	20.77	0.40	21.17	<=30	Pass
			Subtest 4	1712.4	21.19	0.40	21.59	<=30	Pass
			Subtest 5	1712.4	20.64	0.40	21.04	<=30	Pass
			Subtest 1	1732.6	21.73	0.40	22.13	<=30	Pass
			Subtest 2	1732.6	21.37	0.40	21.77	<=30	Pass
			Subtest 3	1732.6	21.37	0.40	21.77	<=30	Pass
			Subtest 4	1732.6	21.88	0.40	22.28	<=30	Pass
			Subtest 5	1732.6	21.44	0.40	21.84	<=30	Pass
			Subtest 1	1752.6	20.78	0.40	21.18	<=30	Pass
			Subtest 2	1752.6	20.67	0.40	21.07	<=30	Pass
			Subtest 3	1752.6	20.40	0.40	20.80	<=30	Pass
			Subtest 4	1752.6	20.87	0.40	21.27	<=30	Pass
			Subtest 5	1752.6	20.50	0.40	20.90	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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2. Frequency Stability

2.1 Band4

2.1.1 Test Result

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	6.12	0.837	0.0005	-2.5 to 2.5	Pass
			7.2	0.807	0.0005	-2.5 to 2.5	Pass
			8.28	1.403	0.0008	-2.5 to 2.5	Pass
		-30	7.2	1.889	0.0011	-2.5 to 2.5	Pass
		-20	7.2	2.183	0.0013	-2.5 to 2.5	Pass
		-10	7.2	2.082	0.0012	-2.5 to 2.5	Pass
		0	7.2	1.572	0.0009	-2.5 to 2.5	Pass
		10	7.2	0.736	0.0004	-2.5 to 2.5	Pass
		30	7.2	0.978	0.0006	-2.5 to 2.5	Pass
		40	7.2	1.333	0.0008	-2.5 to 2.5	Pass
	50	7.2	0.434	0.0003	-2.5 to 2.5	Pass	
	1732.6	20	6.12	0.513	0.0003	-2.5 to 2.5	Pass
			7.2	-0.779	-0.0004	-2.5 to 2.5	Pass
			8.28	-0.345	-0.0002	-2.5 to 2.5	Pass
		-30	7.2	-0.169	-0.0001	-2.5 to 2.5	Pass
		-20	7.2	0.039	0.0000	-2.5 to 2.5	Pass
		-10	7.2	-0.114	-0.0001	-2.5 to 2.5	Pass
		0	7.2	-0.285	-0.0002	-2.5 to 2.5	Pass
		10	7.2	-0.166	-0.0001	-2.5 to 2.5	Pass
		30	7.2	-0.108	-0.0001	-2.5 to 2.5	Pass
		40	7.2	-0.216	-0.0001	-2.5 to 2.5	Pass
	50	7.2	0.273	0.0002	-2.5 to 2.5	Pass	
	1752.6	20	6.12	0.549	0.0003	-2.5 to 2.5	Pass
			7.2	-0.110	-0.0001	-2.5 to 2.5	Pass
			8.28	0.339	0.0002	-2.5 to 2.5	Pass
		-30	7.2	1.137	0.0006	-2.5 to 2.5	Pass
		-20	7.2	0.898	0.0005	-2.5 to 2.5	Pass
		-10	7.2	0.286	0.0002	-2.5 to 2.5	Pass
		0	7.2	0.780	0.0004	-2.5 to 2.5	Pass
		10	7.2	0.481	0.0003	-2.5 to 2.5	Pass
30		7.2	0.541	0.0003	-2.5 to 2.5	Pass	
40		7.2	0.301	0.0002	-2.5 to 2.5	Pass	
50	7.2	0.833	0.0005	-2.5 to 2.5	Pass		
HSDPA	1712.4	20	6.12	0.103	0.0001	-2.5 to 2.5	Pass
			7.2	-0.073	0.0000	-2.5 to 2.5	Pass
			8.28	0.372	0.0002	-2.5 to 2.5	Pass
		-30	7.2	0.439	0.0003	-2.5 to 2.5	Pass
		-20	7.2	0.840	0.0005	-2.5 to 2.5	Pass
		-10	7.2	0.402	0.0002	-2.5 to 2.5	Pass
		0	7.2	0.648	0.0004	-2.5 to 2.5	Pass



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		10	7.2	0.773	0.0005	-2.5 to 2.5	Pass	
		30	7.2	0.857	0.0005	-2.5 to 2.5	Pass	
		40	7.2	0.947	0.0006	-2.5 to 2.5	Pass	
		50	7.2	1.505	0.0009	-2.5 to 2.5	Pass	
	1732.6	20	6.12	0.650	0.0004	-2.5 to 2.5	Pass	
			7.2	1.830	0.0011	-2.5 to 2.5	Pass	
			8.28	0.450	0.0003	-2.5 to 2.5	Pass	
		-30	7.2	1.614	0.0009	-2.5 to 2.5	Pass	
		-20	7.2	1.052	0.0006	-2.5 to 2.5	Pass	
		-10	7.2	1.549	0.0009	-2.5 to 2.5	Pass	
		0	7.2	1.854	0.0011	-2.5 to 2.5	Pass	
		10	7.2	1.422	0.0008	-2.5 to 2.5	Pass	
		30	7.2	1.105	0.0006	-2.5 to 2.5	Pass	
		40	7.2	1.452	0.0008	-2.5 to 2.5	Pass	
		50	7.2	0.649	0.0004	-2.5 to 2.5	Pass	
		1752.6	20	6.12	2.660	0.0015	-2.5 to 2.5	Pass
	7.2			2.071	0.0012	-2.5 to 2.5	Pass	
	8.28			2.465	0.0014	-2.5 to 2.5	Pass	
	-30		7.2	2.004	0.0011	-2.5 to 2.5	Pass	
	-20		7.2	2.139	0.0012	-2.5 to 2.5	Pass	
	-10		7.2	2.553	0.0015	-2.5 to 2.5	Pass	
	0		7.2	2.151	0.0012	-2.5 to 2.5	Pass	
	10		7.2	2.289	0.0013	-2.5 to 2.5	Pass	
	30		7.2	1.891	0.0011	-2.5 to 2.5	Pass	
	40		7.2	2.333	0.0013	-2.5 to 2.5	Pass	
	50		7.2	2.890	0.0016	-2.5 to 2.5	Pass	
	HSUPA		1712.4	20	6.12	-0.489	-0.0003	-2.5 to 2.5
		7.2			-0.567	-0.0003	-2.5 to 2.5	Pass
8.28		-0.284			-0.0002	-2.5 to 2.5	Pass	
-30		7.2		-1.160	-0.0007	-2.5 to 2.5	Pass	
-20		7.2		0.097	0.0001	-2.5 to 2.5	Pass	
-10		7.2		0.420	0.0002	-2.5 to 2.5	Pass	
0		7.2		0.288	0.0002	-2.5 to 2.5	Pass	
10		7.2		-1.137	-0.0007	-2.5 to 2.5	Pass	
30		7.2		-0.861	-0.0005	-2.5 to 2.5	Pass	
40		7.2		-0.183	-0.0001	-2.5 to 2.5	Pass	
50		7.2		-0.331	-0.0002	-2.5 to 2.5	Pass	
1732.6		20		6.12	-1.539	-0.0009	-2.5 to 2.5	Pass
			7.2	-2.950	-0.0017	-2.5 to 2.5	Pass	
			8.28	-2.983	-0.0017	-2.5 to 2.5	Pass	
		-30	7.2	-0.474	-0.0003	-2.5 to 2.5	Pass	
		-20	7.2	-0.207	-0.0001	-2.5 to 2.5	Pass	
		-10	7.2	-0.406	-0.0002	-2.5 to 2.5	Pass	
		0	7.2	-0.606	-0.0003	-2.5 to 2.5	Pass	
		10	7.2	-0.450	-0.0003	-2.5 to 2.5	Pass	
		30	7.2	-0.764	-0.0004	-2.5 to 2.5	Pass	
		40	7.2	-0.073	0.0000	-2.5 to 2.5	Pass	
		50	7.2	-0.800	-0.0005	-2.5 to 2.5	Pass	
		1752.6	20	6.12	0.989	0.0006	-2.5 to 2.5	Pass
7.2				1.424	0.0008	-2.5 to 2.5	Pass	
8.28				1.361	0.0008	-2.5 to 2.5	Pass	



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		-30	7.2	1.512	0.0009	-2.5 to 2.5	Pass
		-20	7.2	2.259	0.0013	-2.5 to 2.5	Pass
		-10	7.2	1.267	0.0007	-2.5 to 2.5	Pass
		0	7.2	0.901	0.0005	-2.5 to 2.5	Pass
		10	7.2	1.420	0.0008	-2.5 to 2.5	Pass
		30	7.2	1.457	0.0008	-2.5 to 2.5	Pass
		40	7.2	1.497	0.0009	-2.5 to 2.5	Pass
		50	7.2	2.441	0.0014	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Band4

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



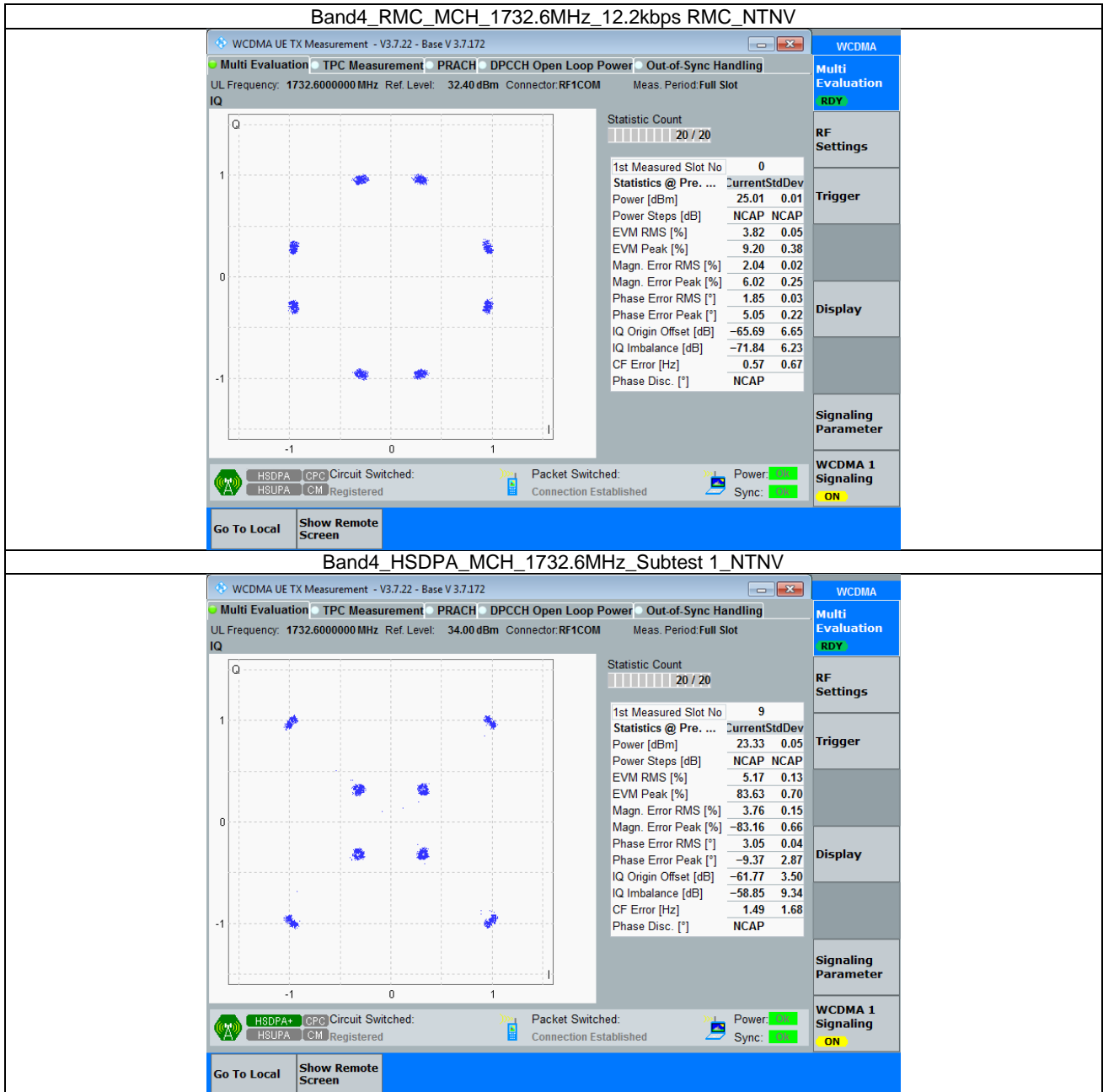
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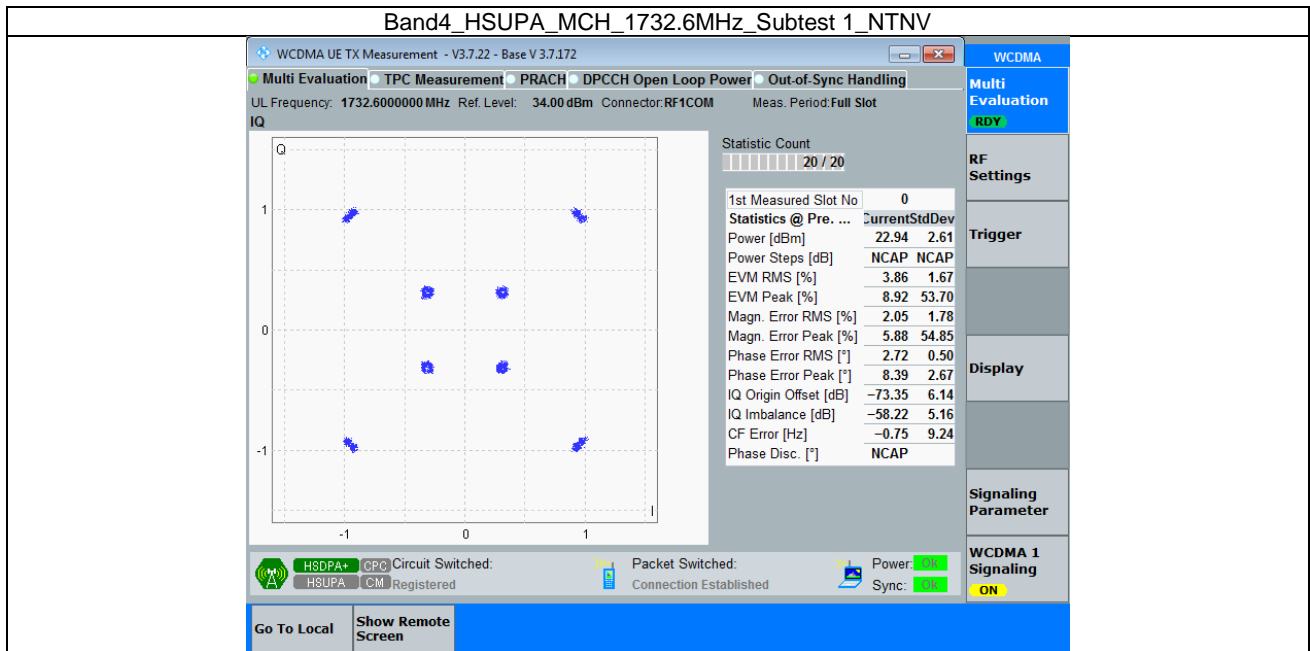
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3.1.2 Test Graph



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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	4.115	Pass
			1732.6	4.117	Pass
			1752.6	4.118	Pass
	HSDPA	Subtest 1	1712.4	4.122	Pass
			1732.6	4.127	Pass
			1752.6	4.132	Pass
	HSUPA	Subtest 1	1712.4	4.128	Pass
			1732.6	4.127	Pass
			1752.6	4.112	Pass
			1752.6	4.112	Pass



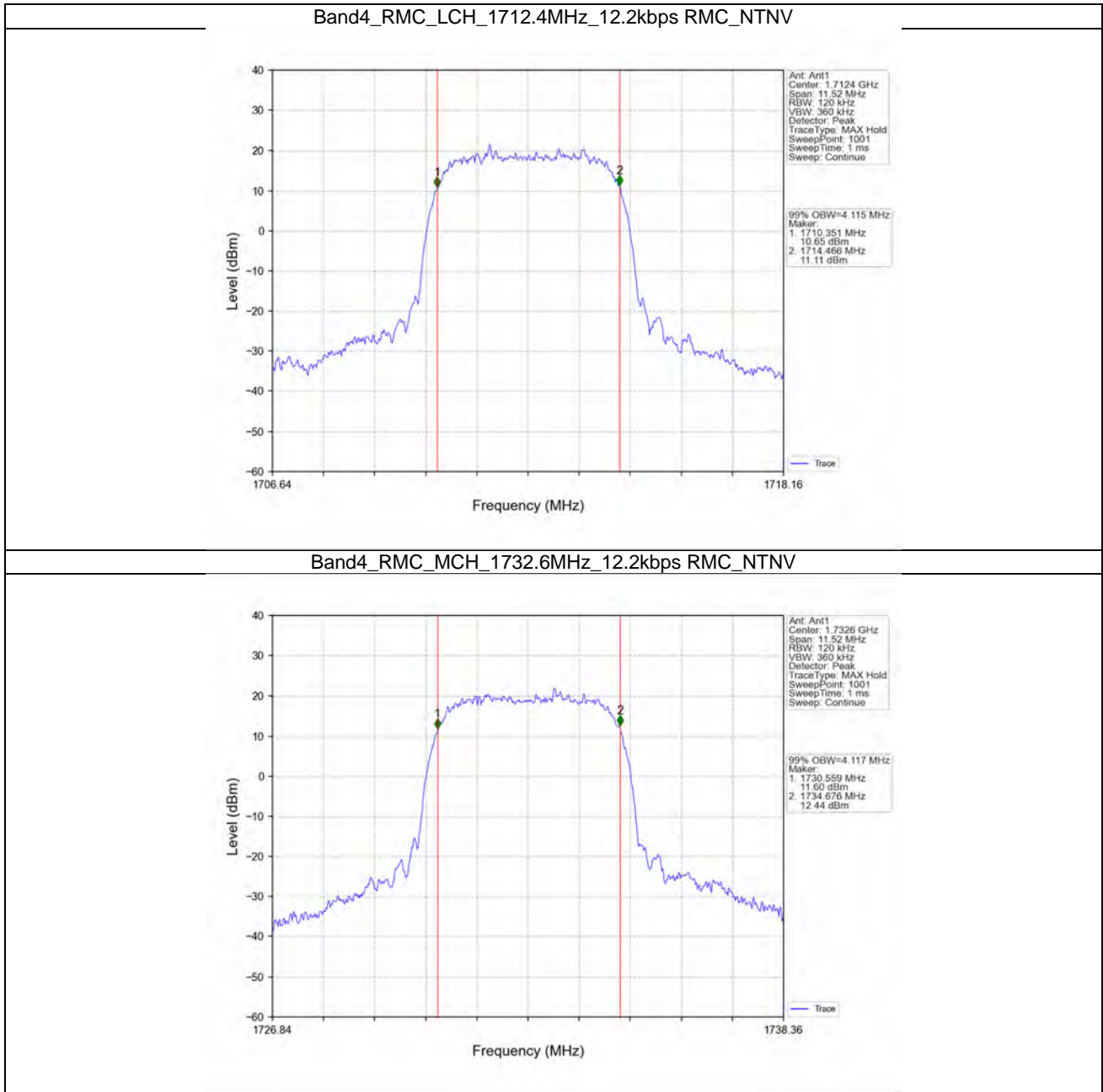
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4.1.2 Test Graph



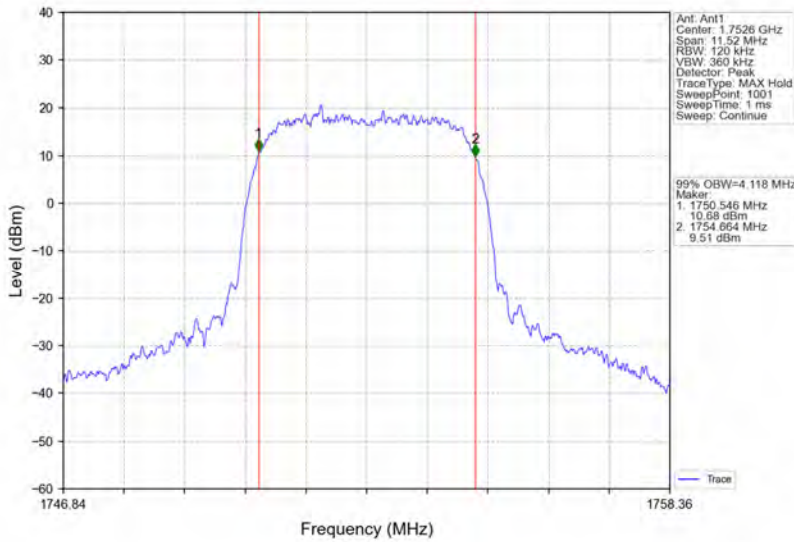
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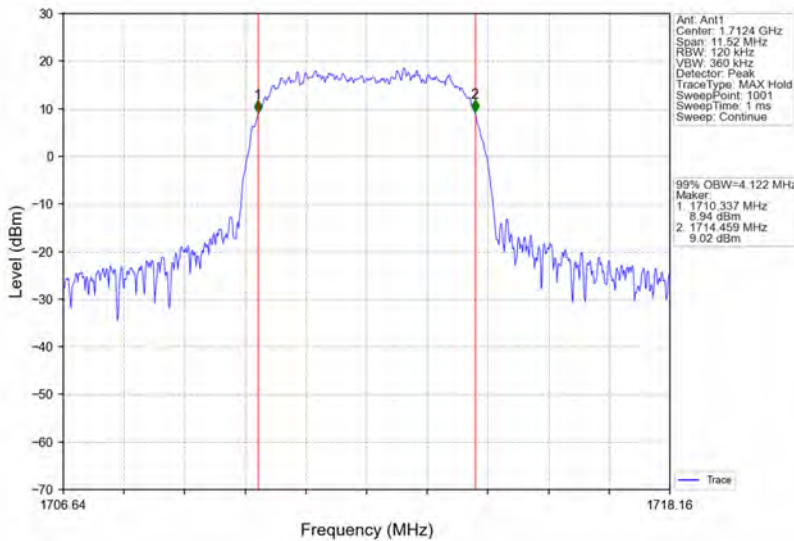
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Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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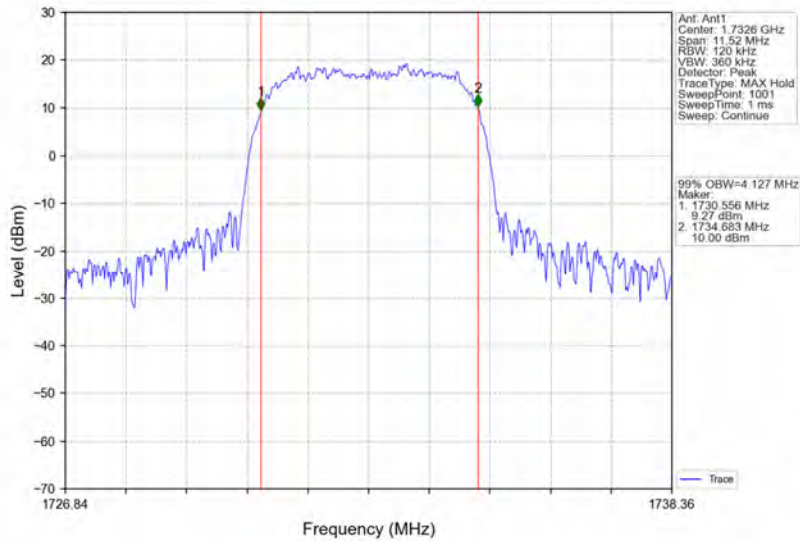
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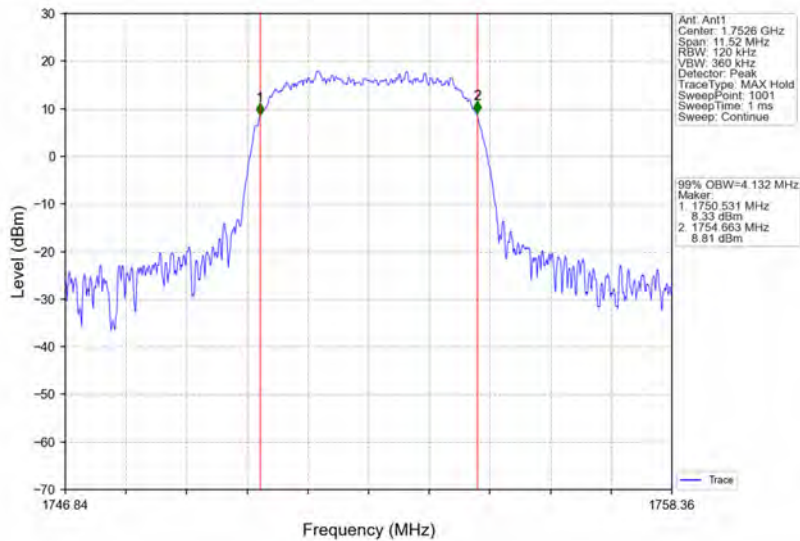


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Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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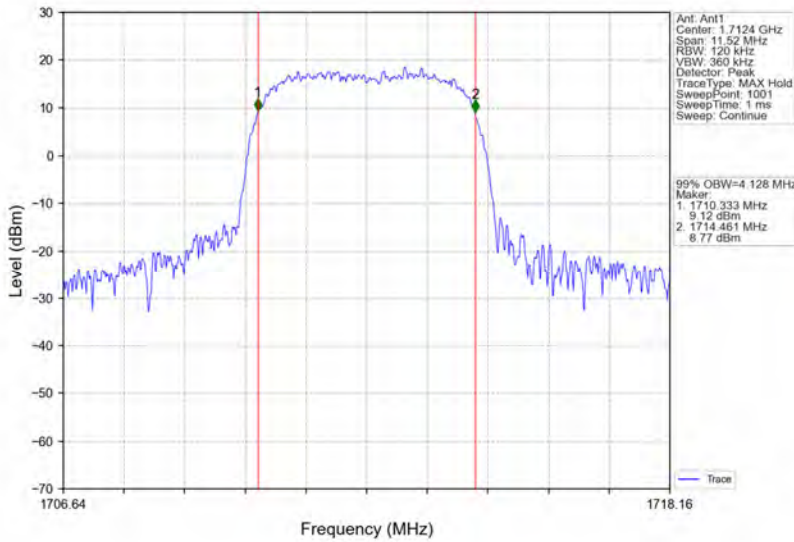
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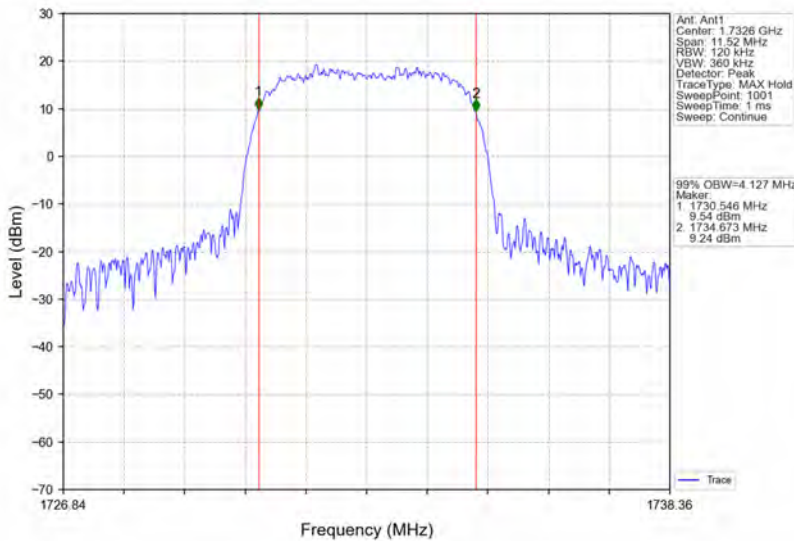


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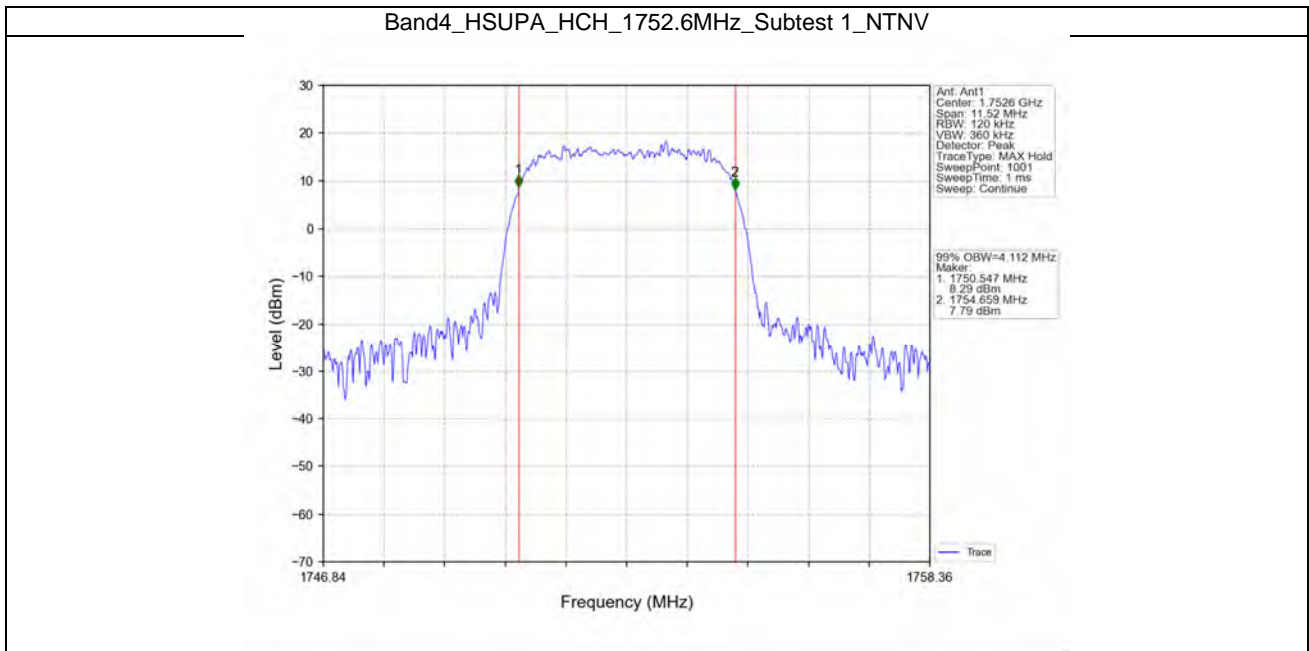
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4.2 Band4_XDB

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	4.715	Pass
			1732.6	4.725	Pass
			1752.6	4.706	Pass
	HSDPA	Subtest 1	1712.4	4.742	Pass
			1732.6	4.733	Pass
			1752.6	4.743	Pass
	HSUPA	Subtest 1	1712.4	4.719	Pass
			1732.6	4.727	Pass
			1752.6	4.735	Pass

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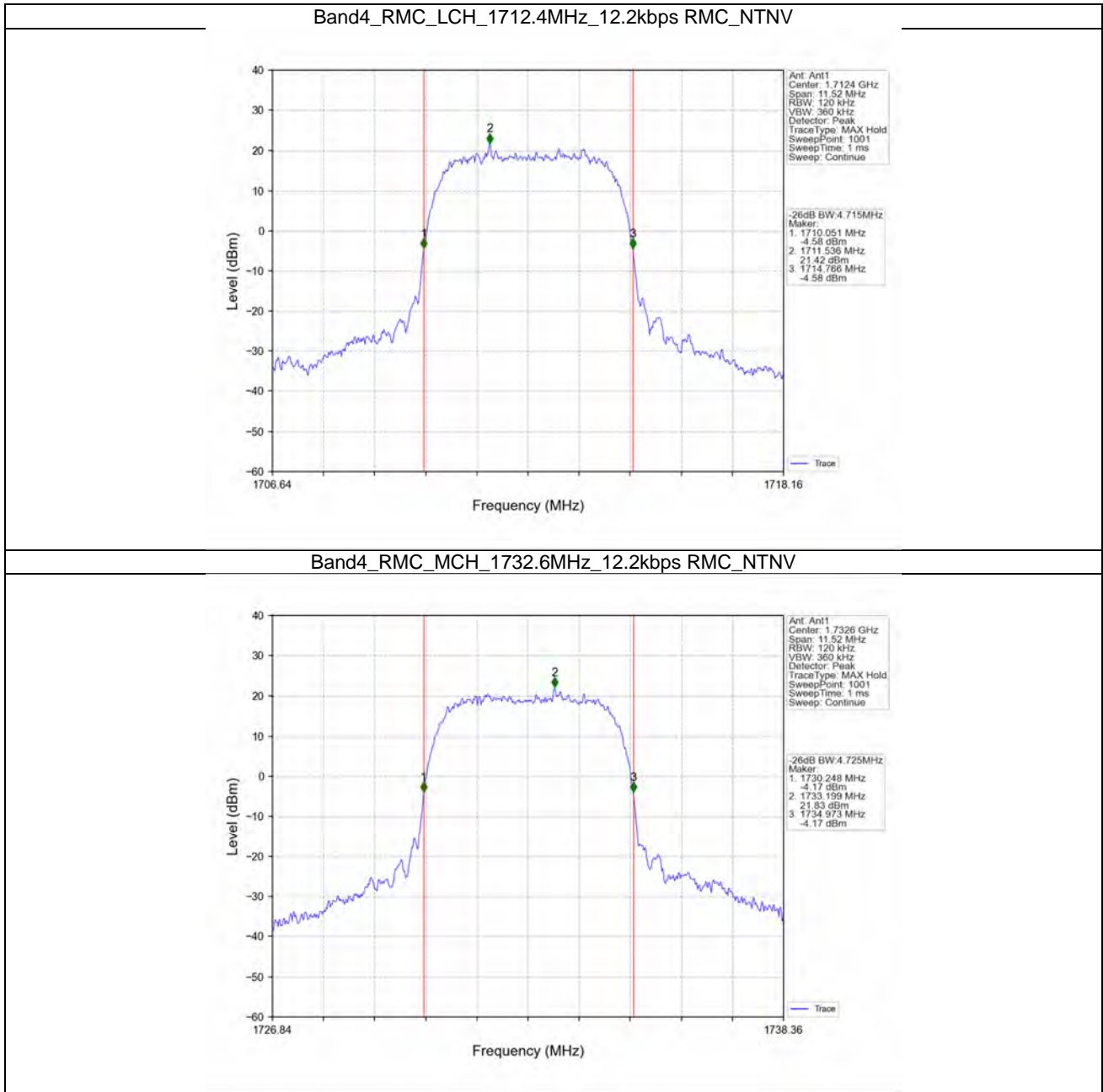
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4.2.2 Test Graph



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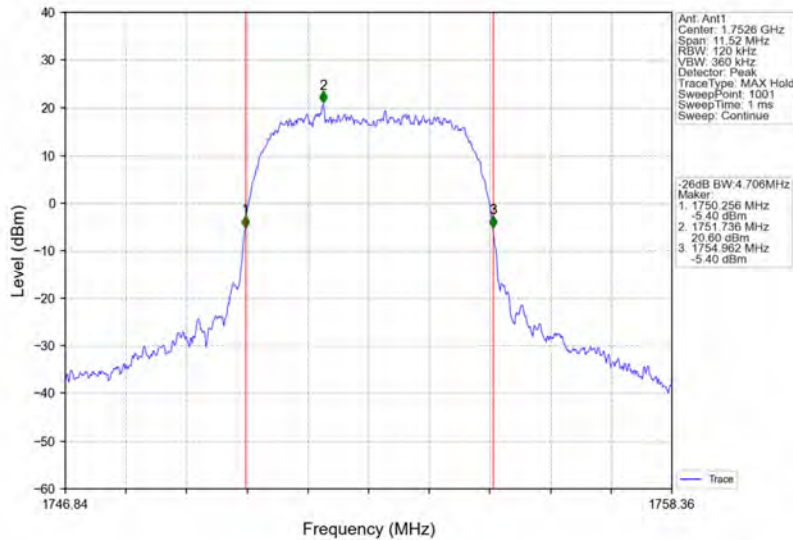
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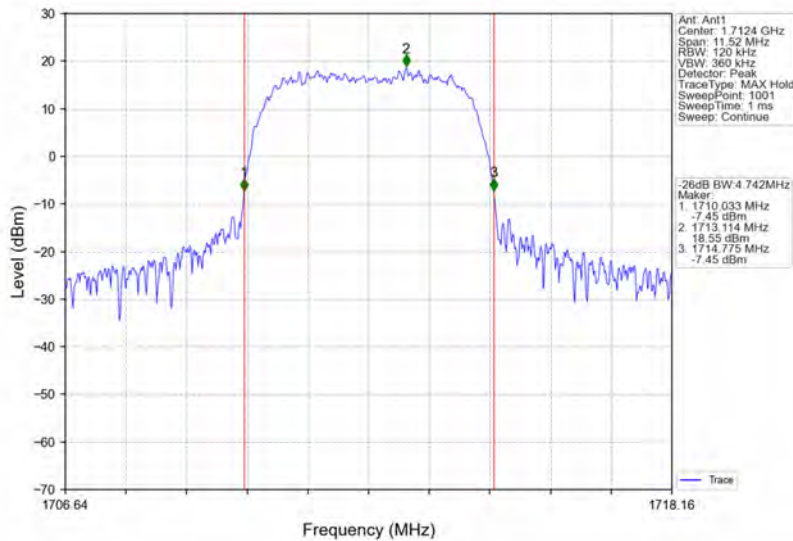
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Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



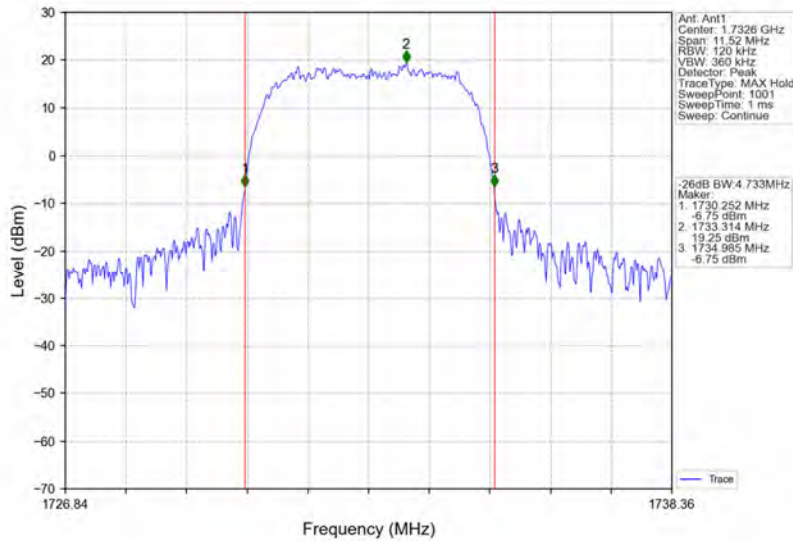
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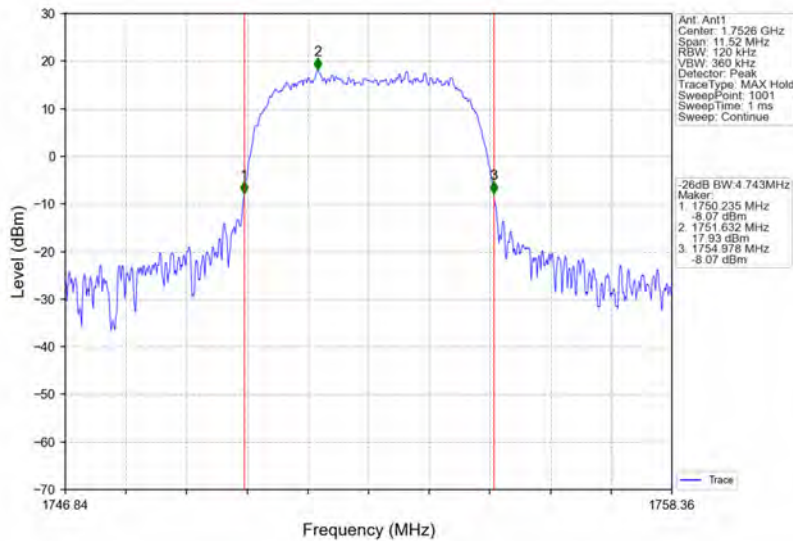
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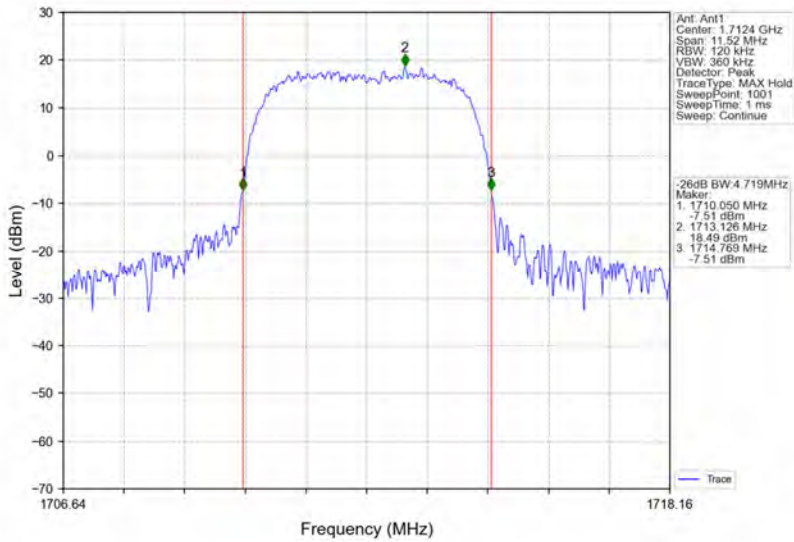
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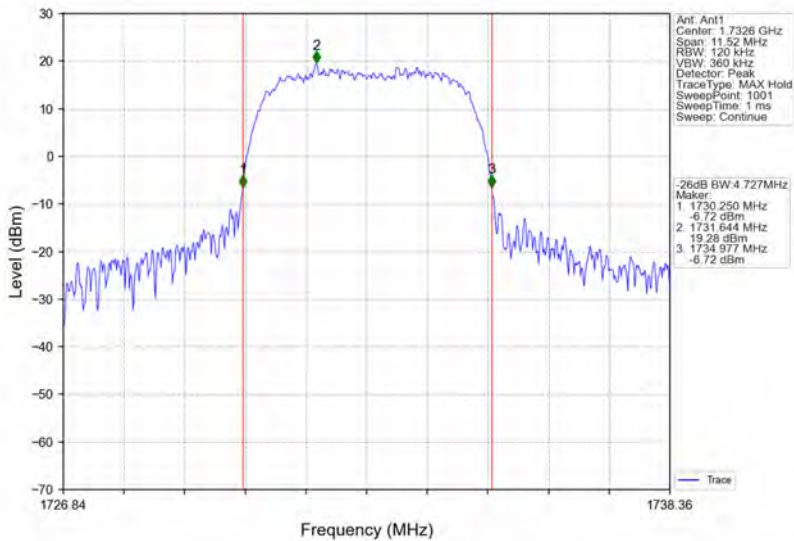
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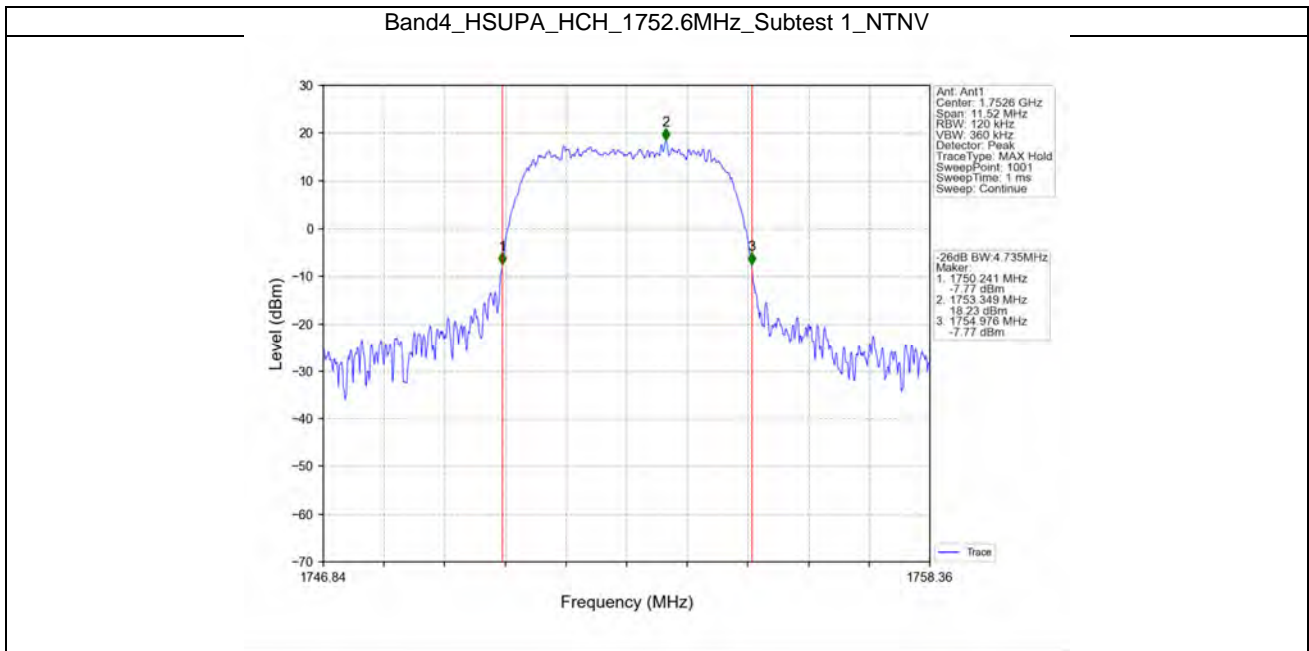
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5. Peak-Average Ratio

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	3.04	<=13	Pass
			1732.6	3.01	<=13	Pass
			1752.6	3.06	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.70	<=13	Pass
			1732.6	5.73	<=13	Pass
			1752.6	5.69	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.80	<=13	Pass
			1732.6	5.70	<=13	Pass
			1752.6	5.68	<=13	Pass



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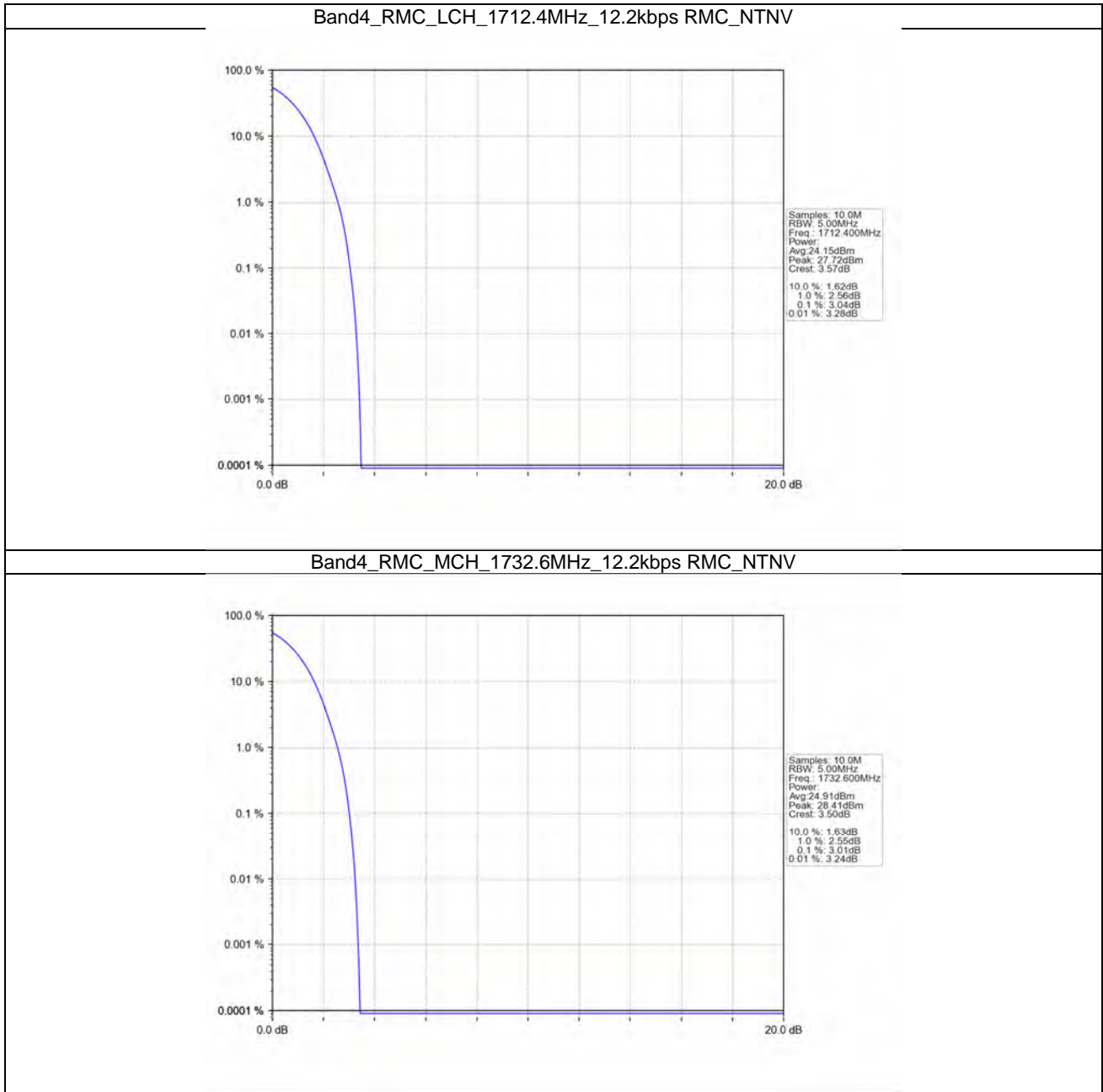
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5.1.2 Test Graph

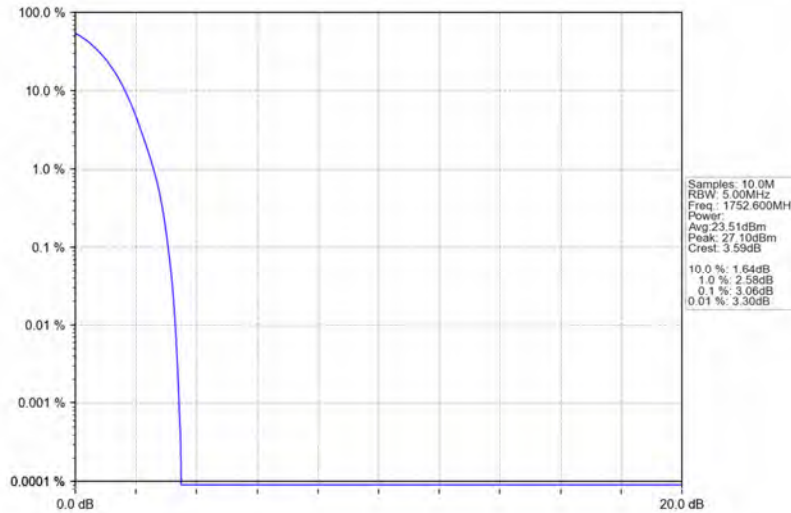


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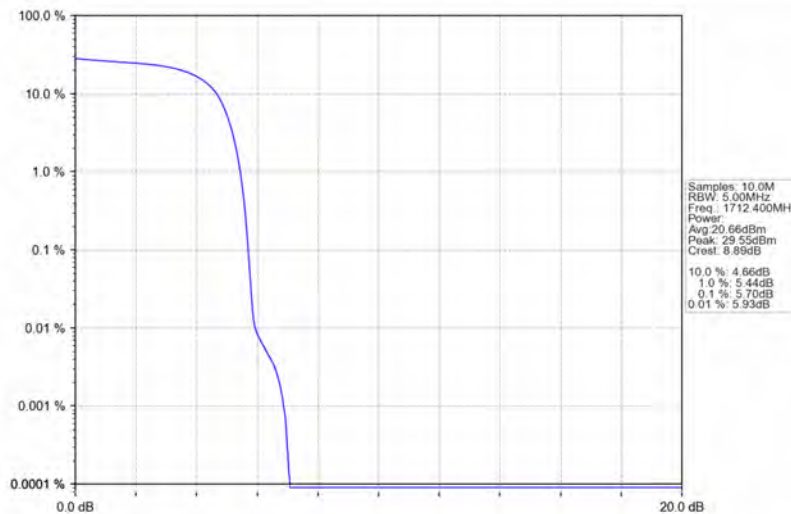
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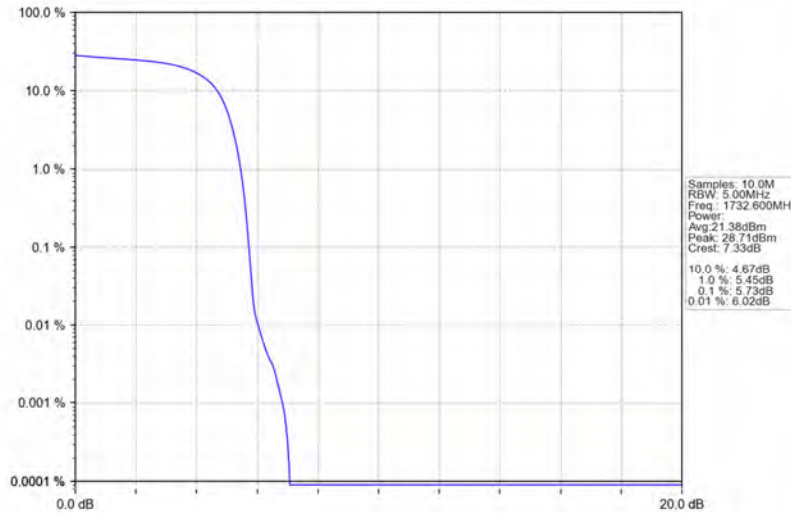
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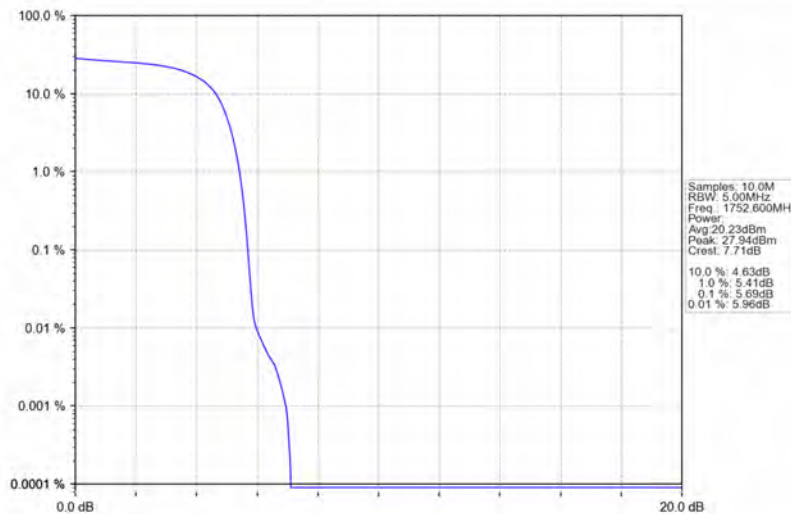


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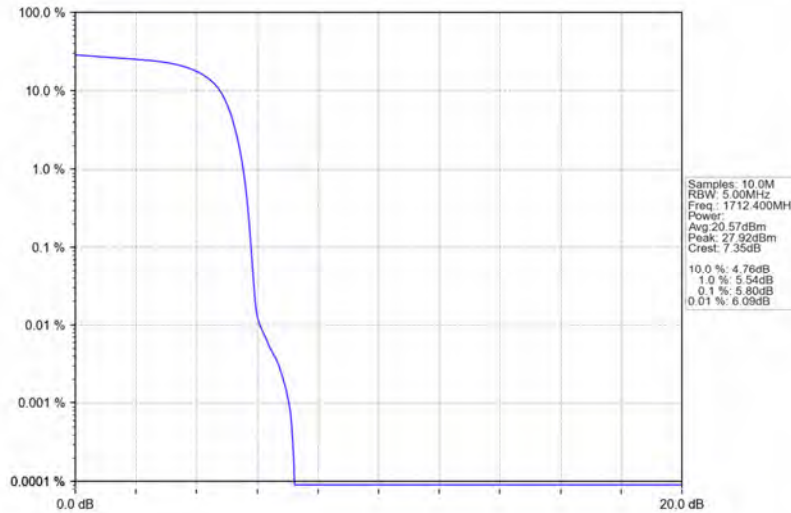
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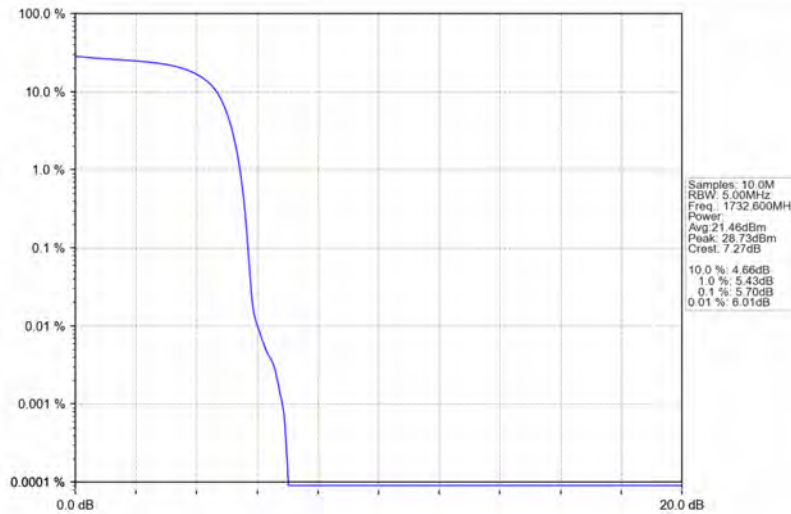
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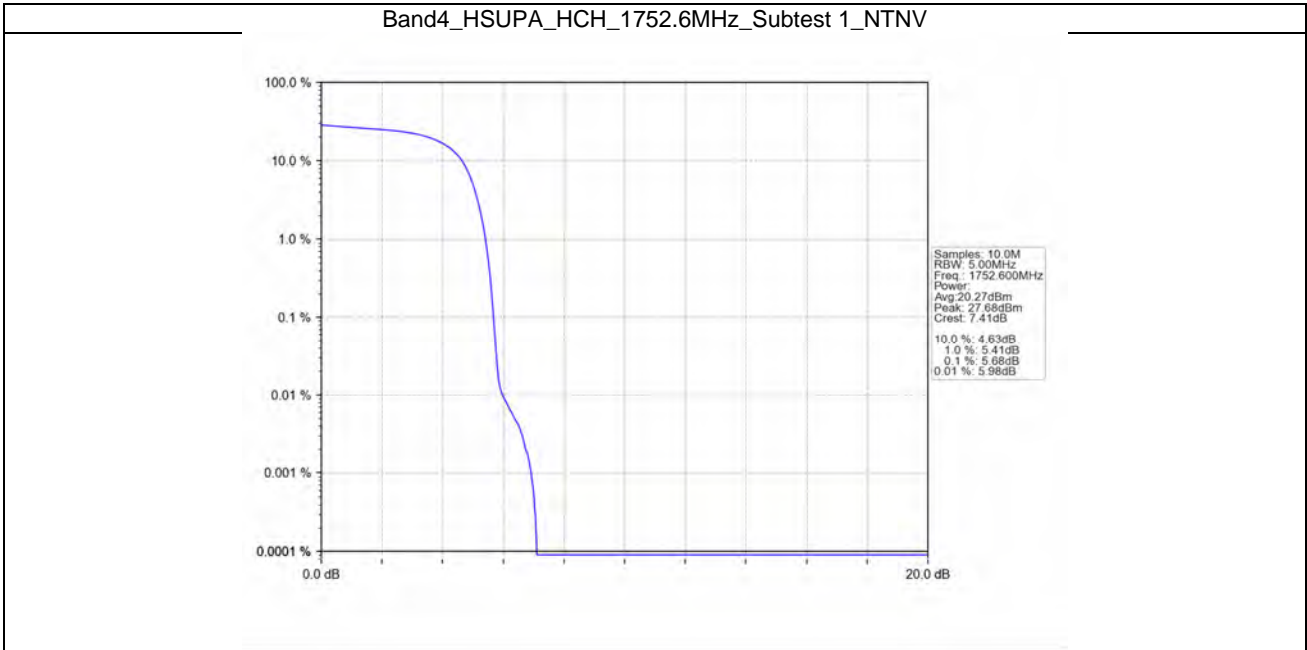
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6. Spurious Emission

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



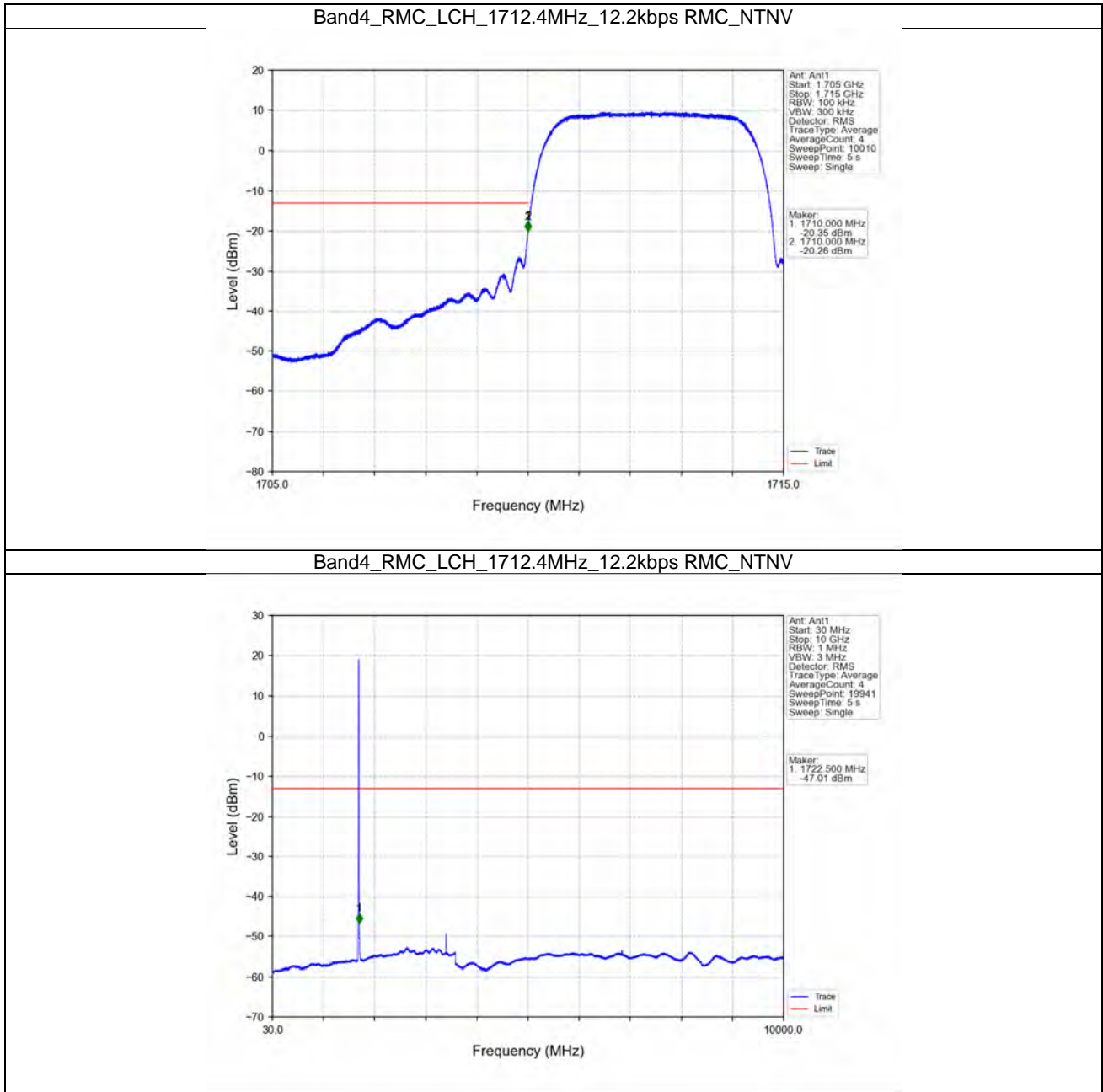
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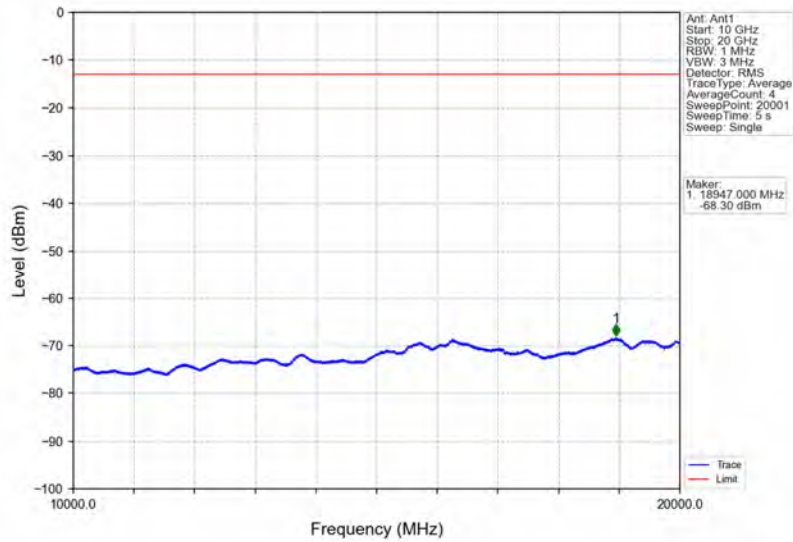
6.1.2 Test Graph



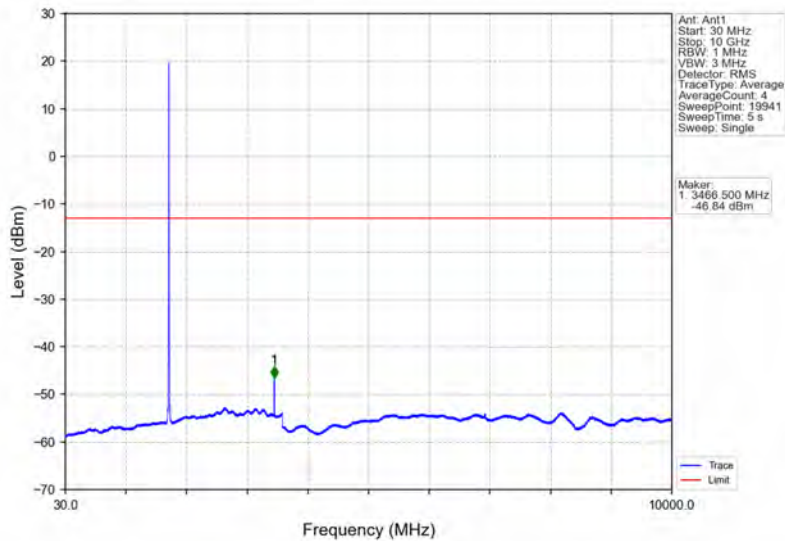
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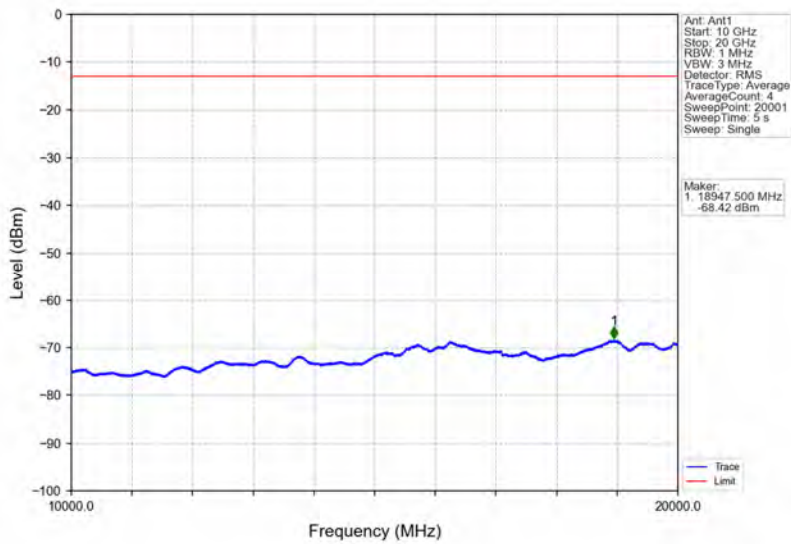
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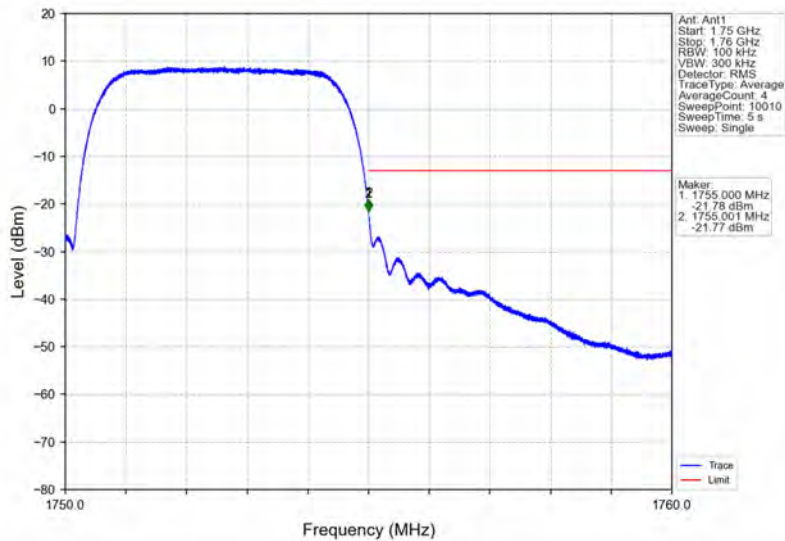
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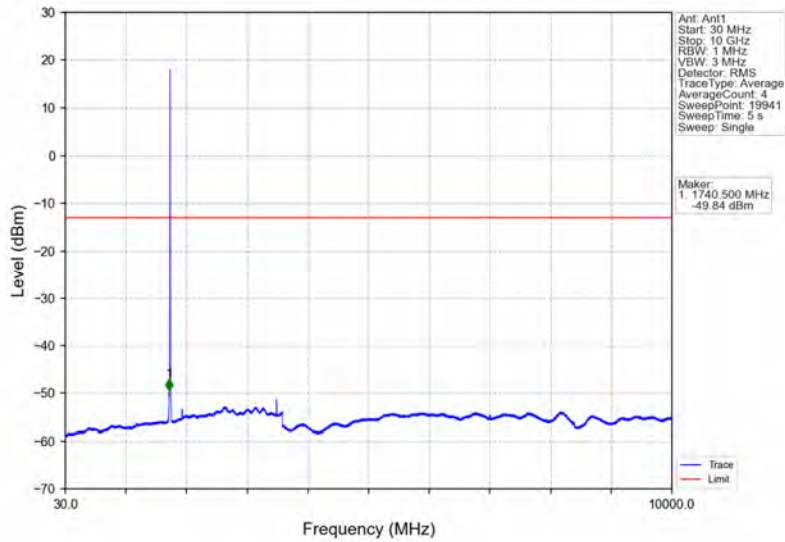
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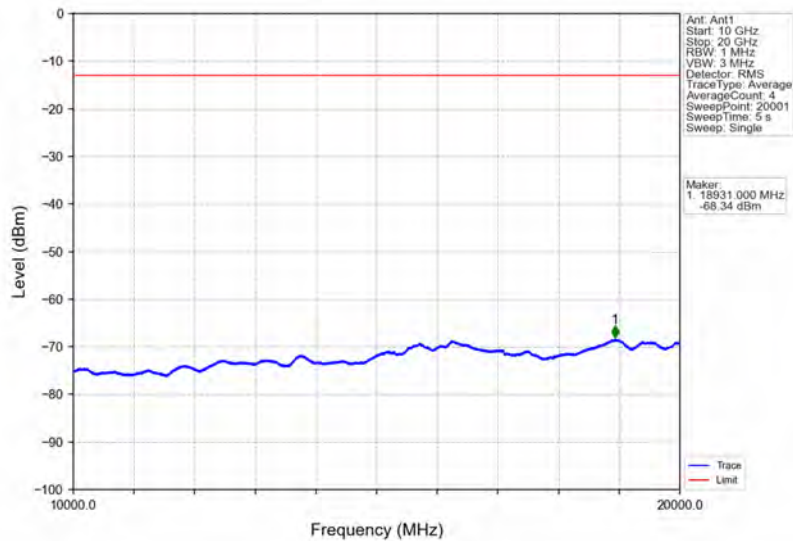
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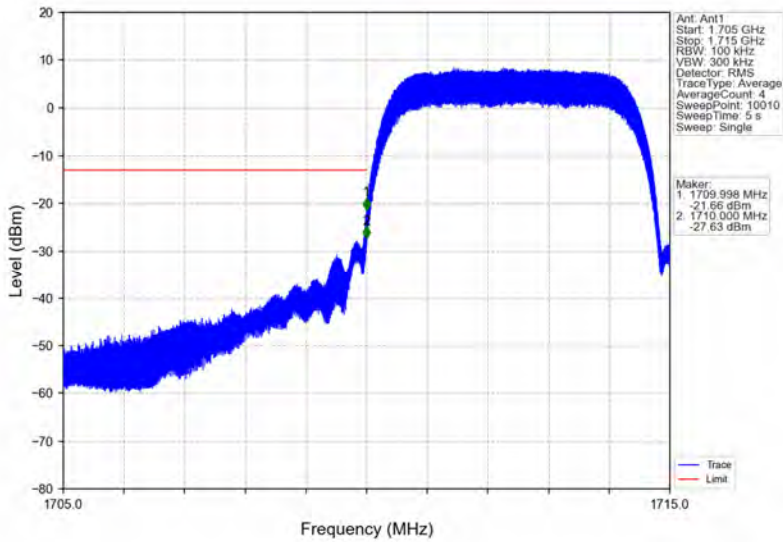
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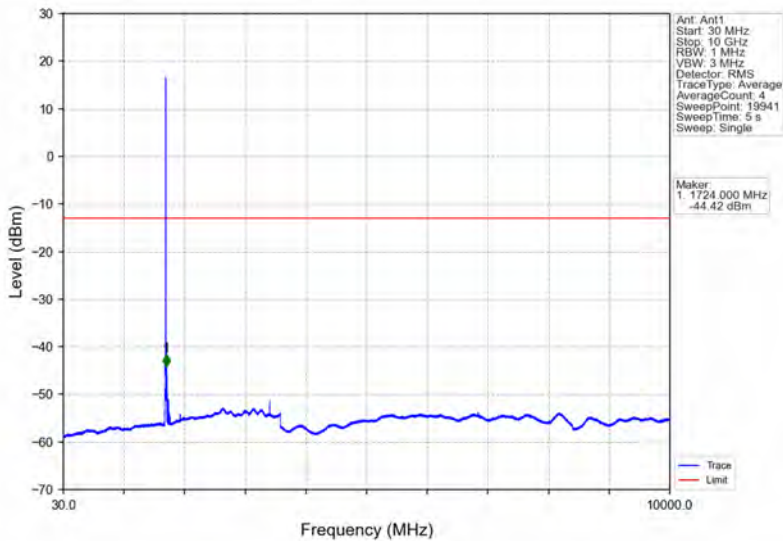
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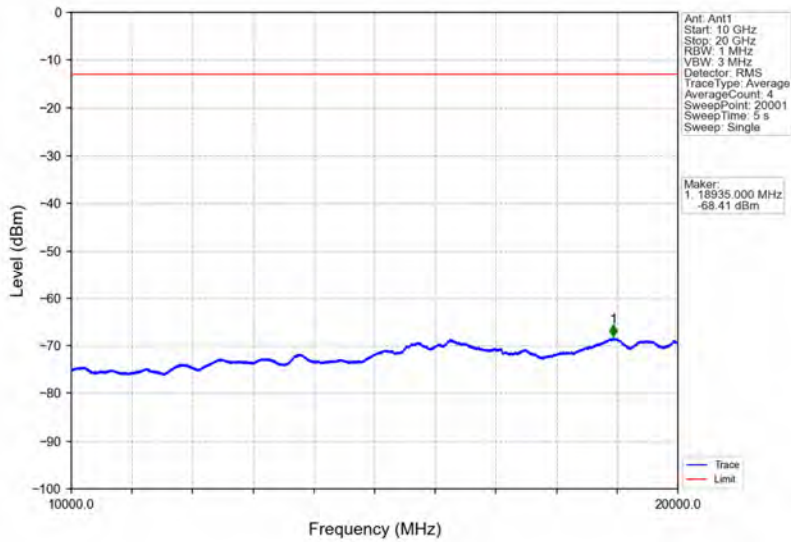
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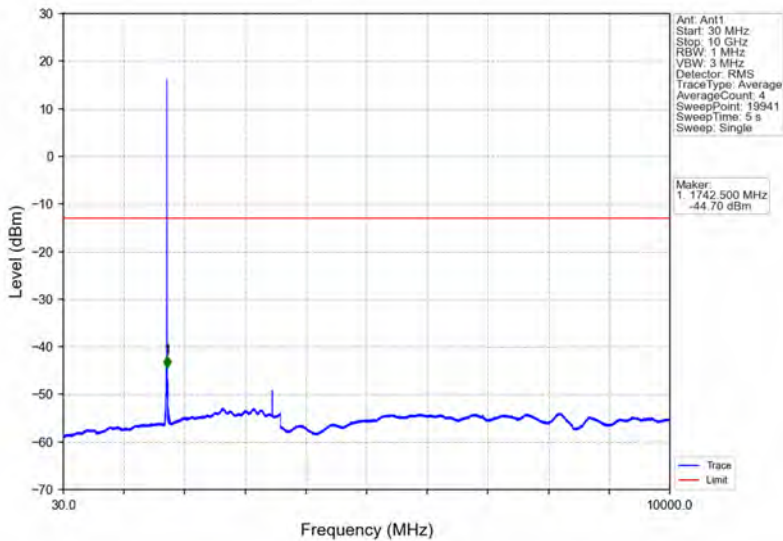
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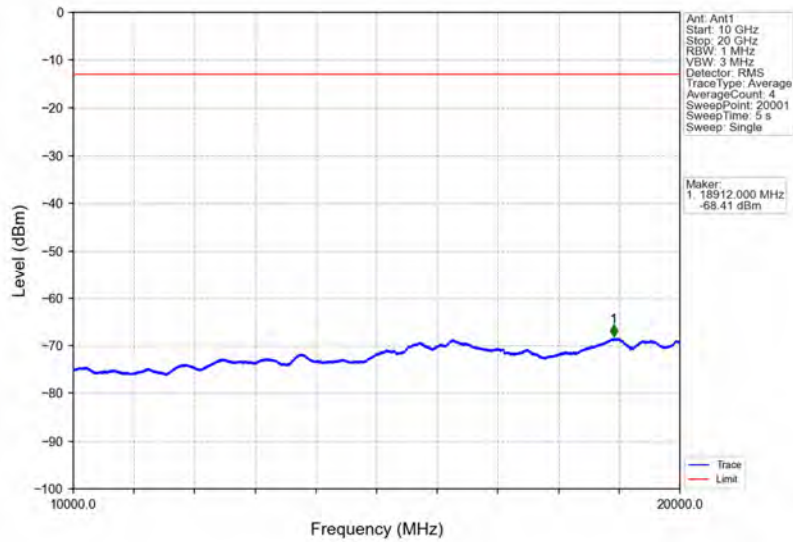
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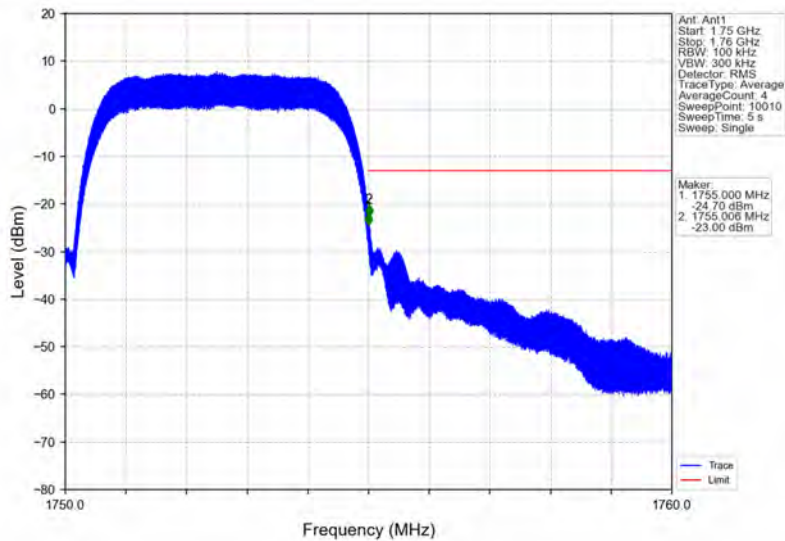


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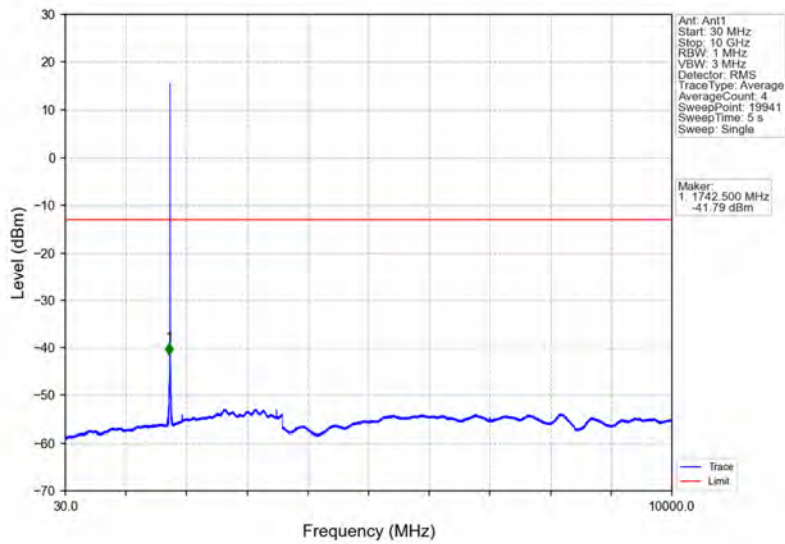
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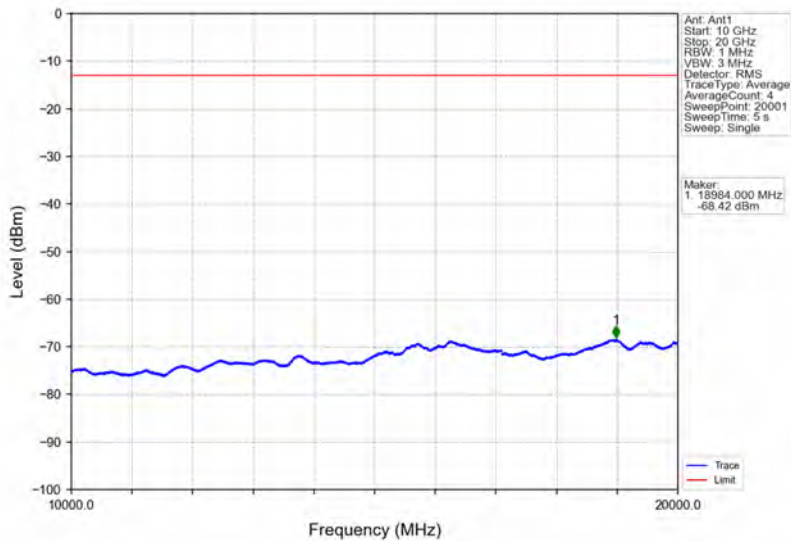
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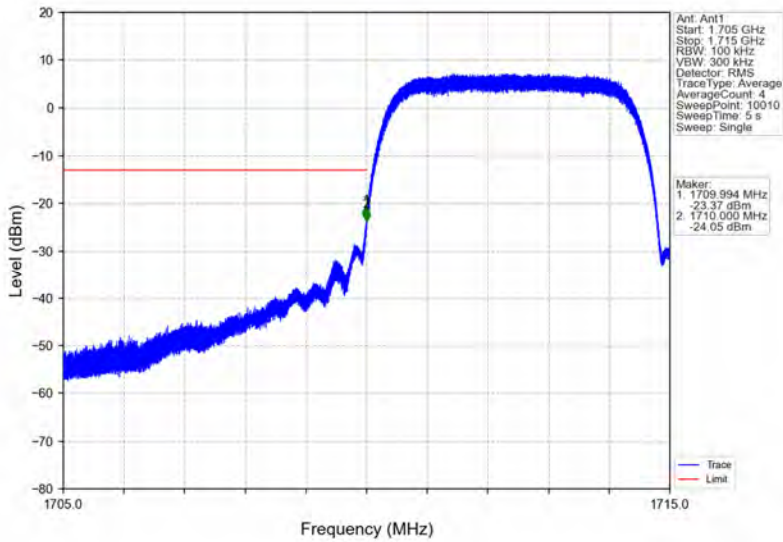
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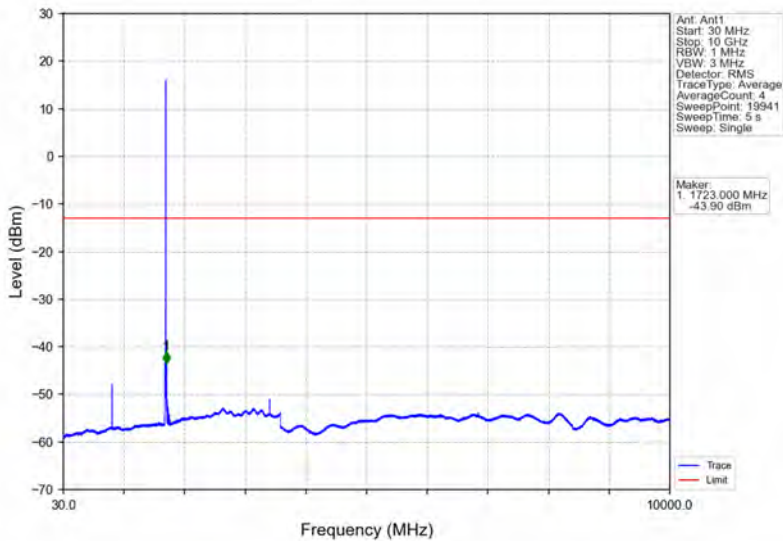


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EMC Laboratory

Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



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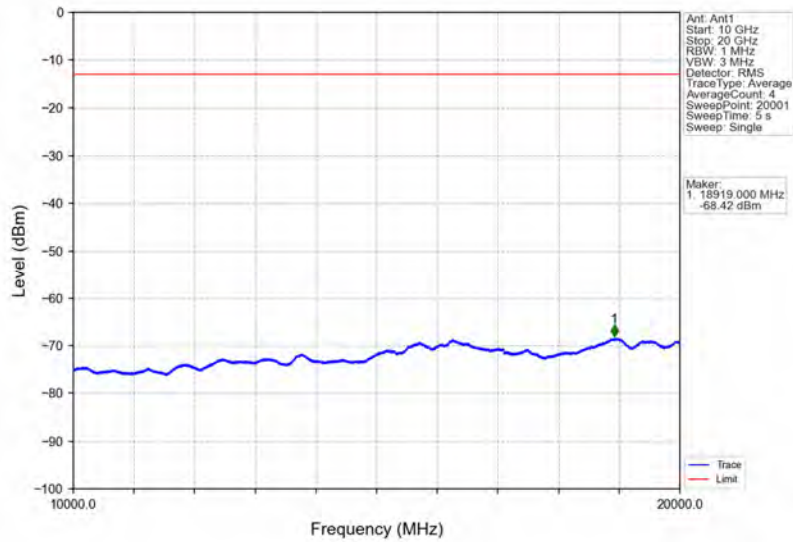
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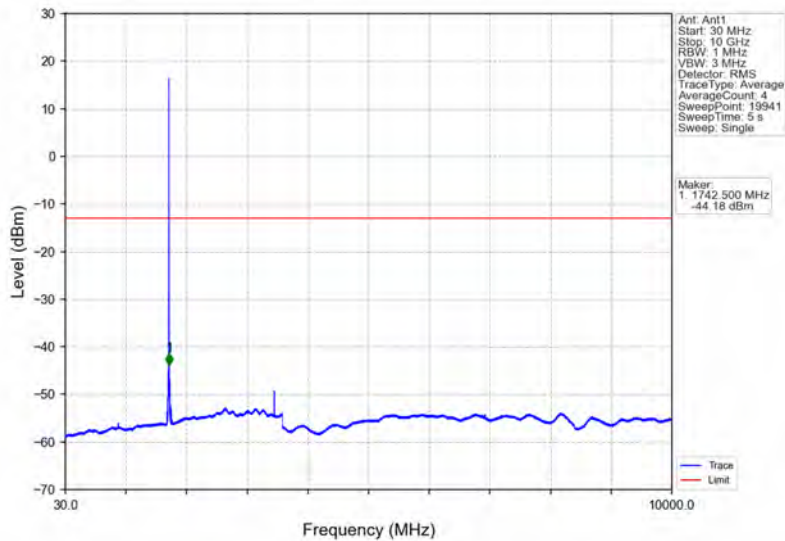
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Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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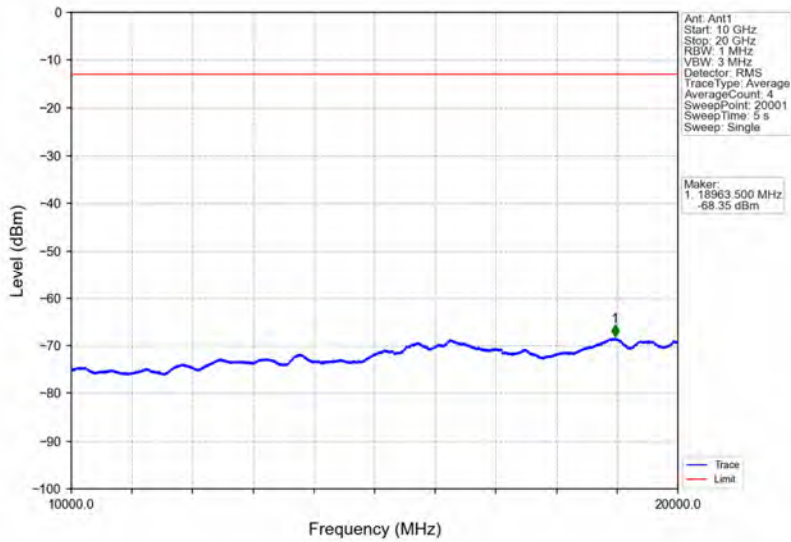
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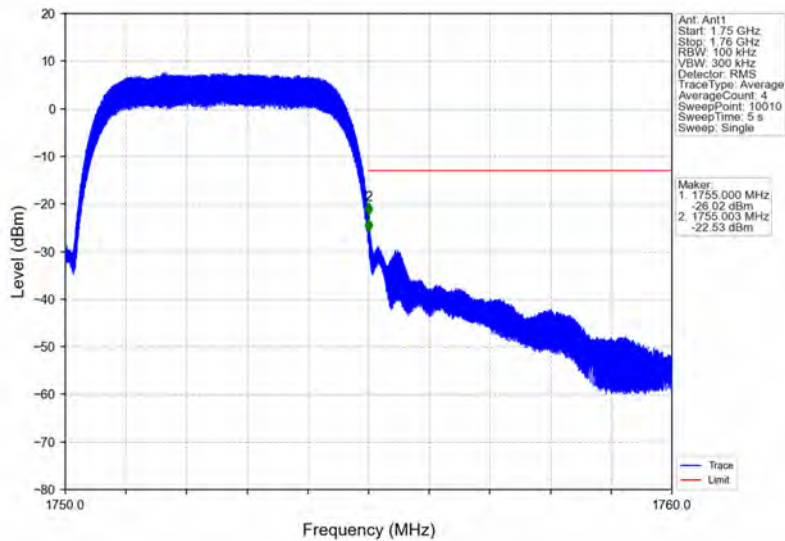
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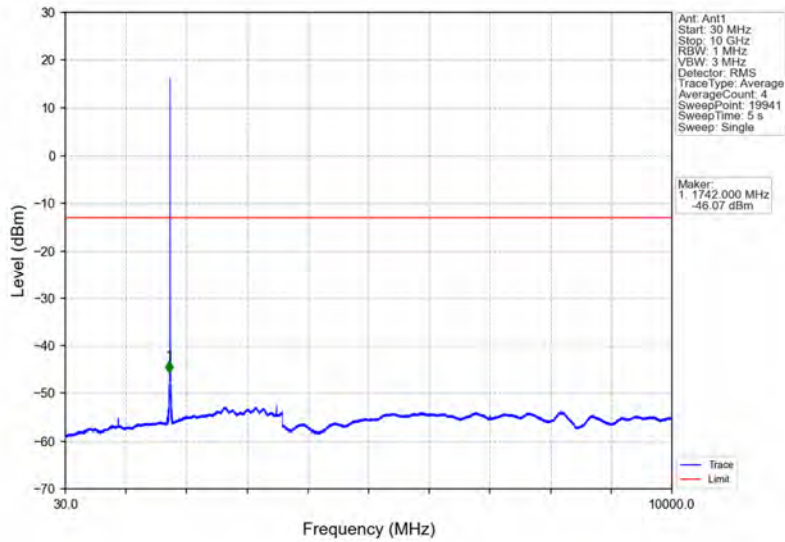
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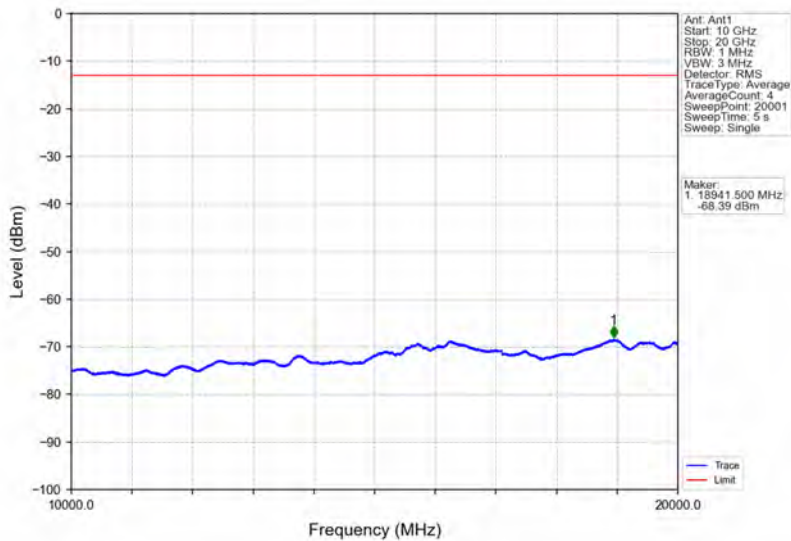
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