



Appendix A.4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band4_EIRP

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	23.95	-0.33	23.62	<=30	Pass
			1732.6	23.74	-0.33	23.41	<=30	Pass
			1752.6	23.76	-0.33	23.43	<=30	Pass
	HSDPA	Subtest 1	1712.4	21.97	-0.33	21.64	<=30	Pass
		Subtest 2	1712.4	21.87	-0.33	21.54	<=30	Pass
		Subtest 3	1712.4	21.95	-0.33	21.62	<=30	Pass
		Subtest 4	1712.4	21.93	-0.33	21.60	<=30	Pass
		Subtest 1	1732.6	21.75	-0.33	21.42	<=30	Pass
		Subtest 2	1732.6	21.81	-0.33	21.48	<=30	Pass
		Subtest 3	1732.6	21.81	-0.33	21.48	<=30	Pass
		Subtest 4	1732.6	21.66	-0.33	21.33	<=30	Pass
		Subtest 1	1752.6	21.58	-0.33	21.25	<=30	Pass
		Subtest 2	1752.6	21.58	-0.33	21.25	<=30	Pass
		Subtest 3	1752.6	21.75	-0.33	21.42	<=30	Pass
		Subtest 4	1752.6	21.73	-0.33	21.40	<=30	Pass
	HSUPA	Subtest 1	1712.4	20.22	-0.33	19.89	<=30	Pass
		Subtest 2	1712.4	20.41	-0.33	20.08	<=30	Pass
		Subtest 3	1712.4	20.43	-0.33	20.10	<=30	Pass
		Subtest 4	1712.4	19.15	-0.33	18.82	<=30	Pass
		Subtest 5	1712.4	19.50	-0.33	19.17	<=30	Pass
		Subtest 1	1732.6	19.36	-0.33	19.03	<=30	Pass
		Subtest 2	1732.6	19.87	-0.33	19.54	<=30	Pass
		Subtest 3	1732.6	20.04	-0.33	19.71	<=30	Pass
		Subtest 4	1732.6	19.40	-0.33	19.07	<=30	Pass
		Subtest 5	1732.6	19.14	-0.33	18.81	<=30	Pass
		Subtest 1	1752.6	19.75	-0.33	19.42	<=30	Pass
		Subtest 2	1752.6	19.75	-0.33	19.42	<=30	Pass
		Subtest 3	1752.6	20.21	-0.33	19.88	<=30	Pass
		Subtest 4	1752.6	19.09	-0.33	18.76	<=30	Pass
		Subtest 5	1752.6	19.11	-0.33	18.78	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band4

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	8.8	1.101	0.0006	-2.5 to 2.5	Pass
			7.7	1.101	0.0006	-2.5 to 2.5	Pass
			6.6	0.901	0.0005	-2.5 to 2.5	Pass
		-30	7.7	0.901	0.0005	-2.5 to 2.5	Pass
		-20	7.7	0.951	0.0006	-2.5 to 2.5	Pass
		-10	7.7	0.622	0.0004	-2.5 to 2.5	Pass
		0	7.7	1.030	0.0006	-2.5 to 2.5	Pass
		10	7.7	0.966	0.0006	-2.5 to 2.5	Pass
		30	7.7	0.966	0.0006	-2.5 to 2.5	Pass
		40	7.7	0.436	0.0003	-2.5 to 2.5	Pass
		50	7.7	0.694	0.0004	-2.5 to 2.5	Pass
	1732.6	20	8.8	0.379	0.0002	-2.5 to 2.5	Pass
			7.7	0.064	0.0000	-2.5 to 2.5	Pass
			6.6	-0.200	-0.0001	-2.5 to 2.5	Pass
		-30	7.7	0.129	0.0001	-2.5 to 2.5	Pass
		-20	7.7	0.150	0.0001	-2.5 to 2.5	Pass
		-10	7.7	-0.415	-0.0002	-2.5 to 2.5	Pass
		0	7.7	0.358	0.0002	-2.5 to 2.5	Pass
		10	7.7	-0.107	-0.0001	-2.5 to 2.5	Pass
		30	7.7	0.100	0.0001	-2.5 to 2.5	Pass
		40	7.7	-0.086	0.0000	-2.5 to 2.5	Pass
		50	7.7	0.272	0.0002	-2.5 to 2.5	Pass
	1752.6	20	8.8	0.801	0.0005	-2.5 to 2.5	Pass
			7.7	0.100	0.0001	-2.5 to 2.5	Pass
			6.6	-0.522	-0.0003	-2.5 to 2.5	Pass
		-30	7.7	-0.014	0.0000	-2.5 to 2.5	Pass
		-20	7.7	0.594	0.0003	-2.5 to 2.5	Pass
		-10	7.7	0.451	0.0003	-2.5 to 2.5	Pass
		0	7.7	0.114	0.0001	-2.5 to 2.5	Pass
		10	7.7	0.257	0.0001	-2.5 to 2.5	Pass
		30	7.7	0.830	0.0005	-2.5 to 2.5	Pass
		40	7.7	1.116	0.0006	-2.5 to 2.5	Pass
		50	7.7	0.408	0.0002	-2.5 to 2.5	Pass
HSDPA	1712.4	20	8.8	-3.784	-0.0022	-2.5 to 2.5	Pass
			7.7	-3.469	-0.0020	-2.5 to 2.5	Pass
			6.6	-3.655	-0.0021	-2.5 to 2.5	Pass
		-30	7.7	-4.027	-0.0024	-2.5 to 2.5	Pass
		-20	7.7	-3.040	-0.0018	-2.5 to 2.5	Pass
		-10	7.7	-3.247	-0.0019	-2.5 to 2.5	Pass
		0	7.7	-3.548	-0.0021	-2.5 to 2.5	Pass
		10	7.7	-3.004	-0.0018	-2.5 to 2.5	Pass
		30	7.7	-3.412	-0.0020	-2.5 to 2.5	Pass
		40	7.7	-2.911	-0.0017	-2.5 to 2.5	Pass
		50	7.7	-3.283	-0.0019	-2.5 to 2.5	Pass
	1732.6	20	8.8	-6.866	-0.0040	-2.5 to 2.5	Pass
			7.7	-7.017	-0.0040	-2.5 to 2.5	Pass
			6.6	-6.373	-0.0037	-2.5 to 2.5	Pass
		-30	7.7	-7.203	-0.0042	-2.5 to 2.5	Pass
		-20	7.7	-6.745	-0.0039	-2.5 to 2.5	Pass
		-10	7.7	-7.002	-0.0040	-2.5 to 2.5	Pass

		0	7.7	-7.188	-0.0041	-2.5 to 2.5	Pass		
		10	7.7	-6.459	-0.0037	-2.5 to 2.5	Pass		
		30	7.7	-6.995	-0.0040	-2.5 to 2.5	Pass		
		40	7.7	-7.038	-0.0041	-2.5 to 2.5	Pass		
		50	7.7	-7.045	-0.0041	-2.5 to 2.5	Pass		
	1752.6	20	8.8	-3.340	-0.0019	-2.5 to 2.5	Pass		
			7.7	-3.226	-0.0018	-2.5 to 2.5	Pass		
			6.6	-3.083	-0.0018	-2.5 to 2.5	Pass		
		-30	7.7	-3.247	-0.0019	-2.5 to 2.5	Pass		
		-20	7.7	-3.662	-0.0021	-2.5 to 2.5	Pass		
		-10	7.7	-3.691	-0.0021	-2.5 to 2.5	Pass		
		0	7.7	-3.862	-0.0022	-2.5 to 2.5	Pass		
		10	7.7	-3.641	-0.0021	-2.5 to 2.5	Pass		
		30	7.7	-3.161	-0.0018	-2.5 to 2.5	Pass		
		40	7.7	-3.133	-0.0018	-2.5 to 2.5	Pass		
		50	7.7	-3.140	-0.0018	-2.5 to 2.5	Pass		
		HSUPA	1712.4	20	8.8	1.931	0.0011	-2.5 to 2.5	Pass
					7.7	3.068	0.0018	-2.5 to 2.5	Pass
					6.6	2.854	0.0017	-2.5 to 2.5	Pass
				-30	7.7	2.439	0.0014	-2.5 to 2.5	Pass
-20	7.7			3.204	0.0019	-2.5 to 2.5	Pass		
-10	7.7			3.383	0.0020	-2.5 to 2.5	Pass		
0	7.7			3.390	0.0020	-2.5 to 2.5	Pass		
10	7.7			2.410	0.0014	-2.5 to 2.5	Pass		
30	7.7			2.267	0.0013	-2.5 to 2.5	Pass		
40	7.7			2.697	0.0016	-2.5 to 2.5	Pass		
50	7.7		1.860	0.0011	-2.5 to 2.5	Pass			
1732.6	20		8.8	5.751	0.0033	-2.5 to 2.5	Pass		
			7.7	5.751	0.0033	-2.5 to 2.5	Pass		
			6.6	4.549	0.0026	-2.5 to 2.5	Pass		
	-30		7.7	5.958	0.0034	-2.5 to 2.5	Pass		
	-20		7.7	5.486	0.0032	-2.5 to 2.5	Pass		
	-10		7.7	5.643	0.0033	-2.5 to 2.5	Pass		
	0		7.7	5.643	0.0033	-2.5 to 2.5	Pass		
	10		7.7	6.094	0.0035	-2.5 to 2.5	Pass		
	30		7.7	5.593	0.0032	-2.5 to 2.5	Pass		
	40	7.7	5.336	0.0031	-2.5 to 2.5	Pass			
50	7.7	3.984	0.0023	-2.5 to 2.5	Pass				
1752.6	20	8.8	2.725	0.0016	-2.5 to 2.5	Pass			
		7.7	1.831	0.0010	-2.5 to 2.5	Pass			
		6.6	1.945	0.0011	-2.5 to 2.5	Pass			
	-30	7.7	2.596	0.0015	-2.5 to 2.5	Pass			
	-20	7.7	2.425	0.0014	-2.5 to 2.5	Pass			
	-10	7.7	1.917	0.0011	-2.5 to 2.5	Pass			
	0	7.7	2.289	0.0013	-2.5 to 2.5	Pass			
	10	7.7	1.881	0.0011	-2.5 to 2.5	Pass			
	30	7.7	1.245	0.0007	-2.5 to 2.5	Pass			
	40	7.7	1.867	0.0011	-2.5 to 2.5	Pass			
50	7.7	2.439	0.0014	-2.5 to 2.5	Pass				

3. 99% & 26dB Bandwidth



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3.1 Test Result

3.1.1 Band4_OBW

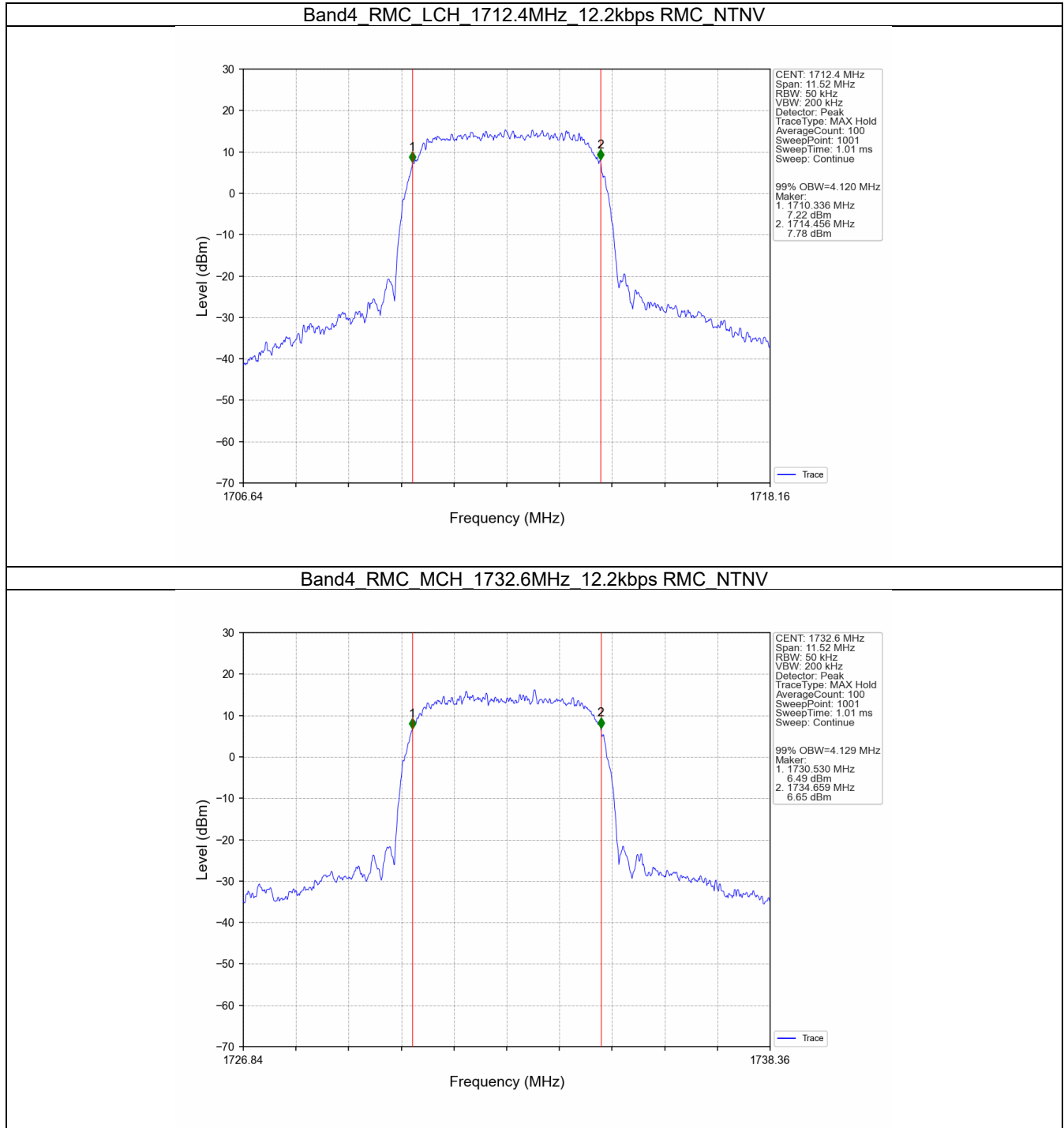
Band: 4						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.120	/	Pass
			1732.6	4.129	/	Pass
			1752.6	4.118	/	Pass
	HSDPA	Subtest 1	1712.4	4.100	/	Pass
			1732.6	4.095	/	Pass
			1752.6	4.110	/	Pass
	HSUPA	Subtest 1	1712.4	4.115	/	Pass
			1732.6	4.126	/	Pass
			1752.6	4.134	/	Pass

1.1.2 Band4_XDB

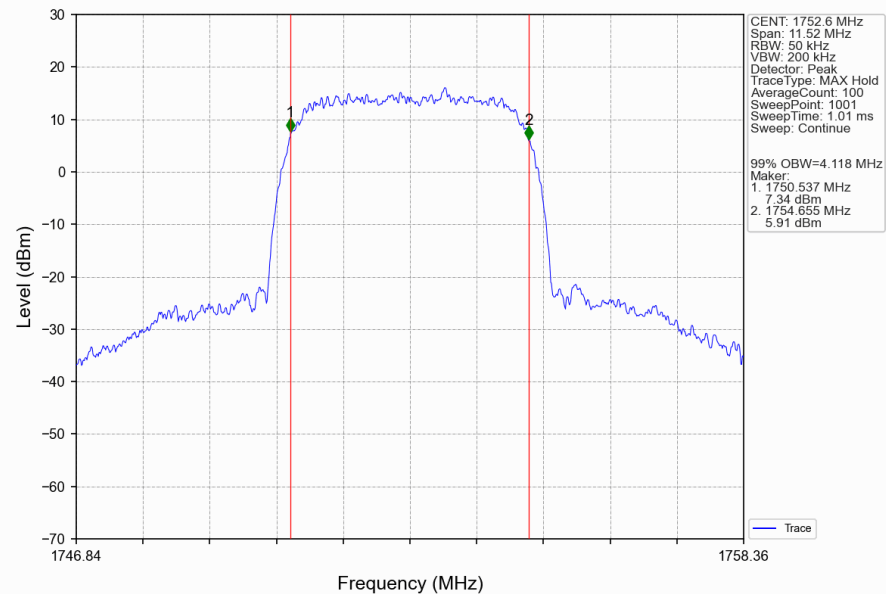
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ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.706	/	Pass
			1732.6	4.697	/	Pass
			1752.6	4.706	/	Pass
	HSDPA	Subtest 1	1712.4	4.677	/	Pass
			1732.6	4.673	/	Pass
			1752.6	4.663	/	Pass
	HSUPA	Subtest 1	1712.4	4.722	/	Pass
			1732.6	4.711	/	Pass
			1752.6	4.695	/	Pass

3.2 Test Graph

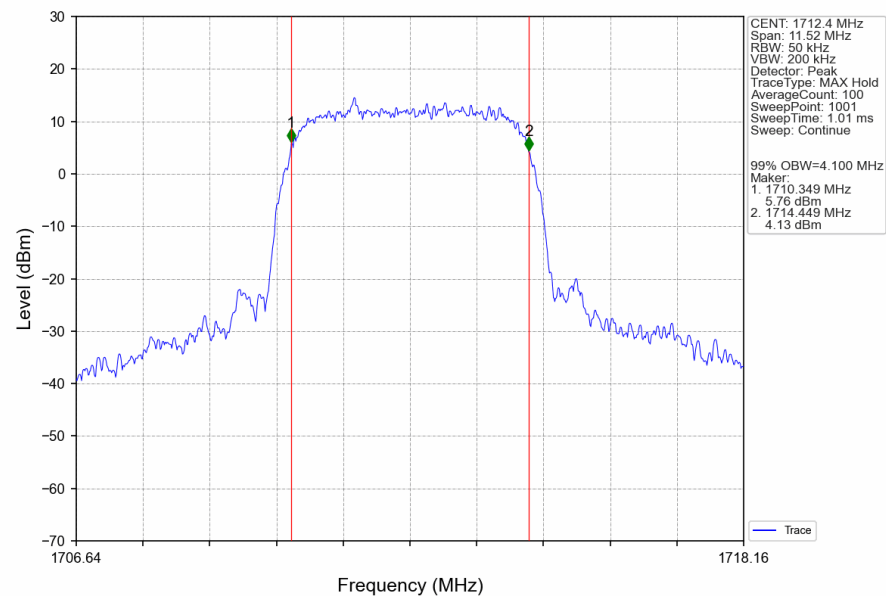
3.2.1 Band4_OBW



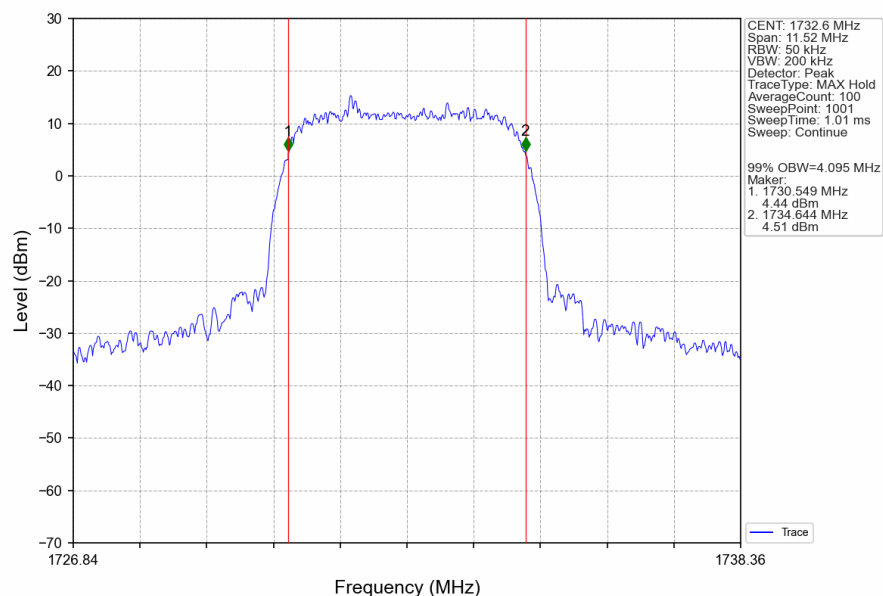
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



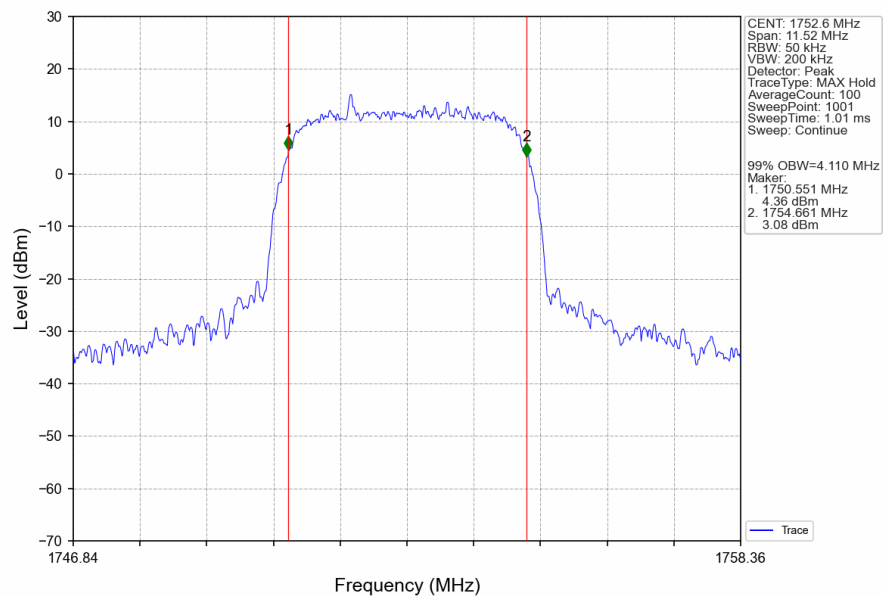
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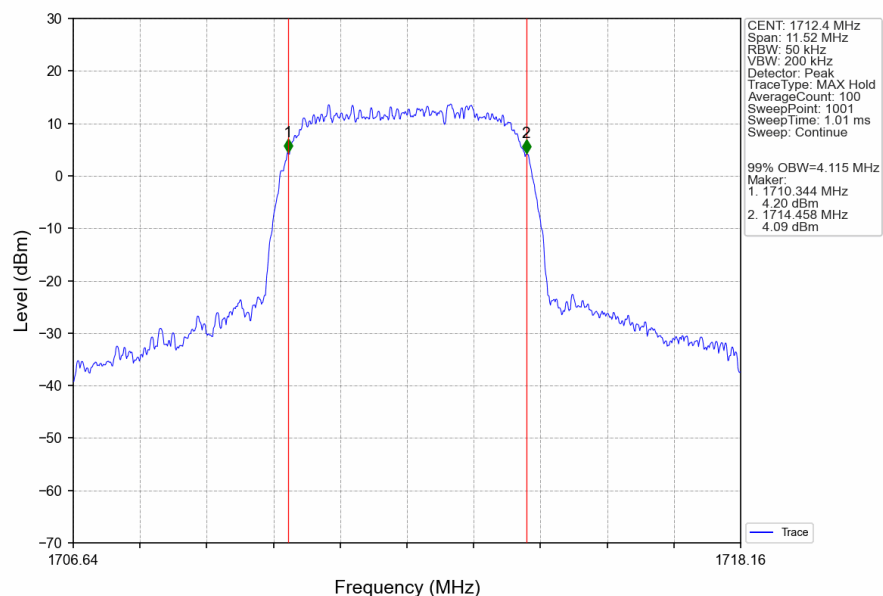
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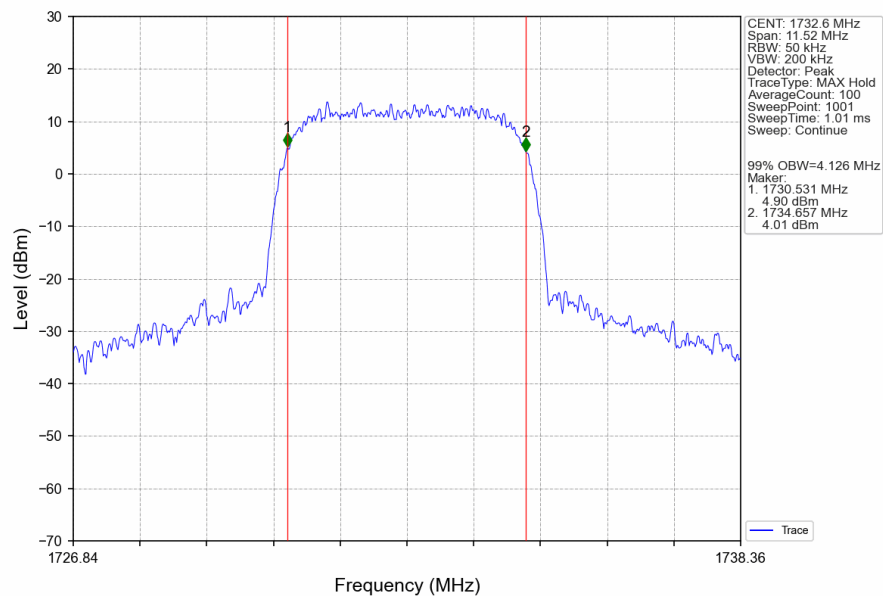
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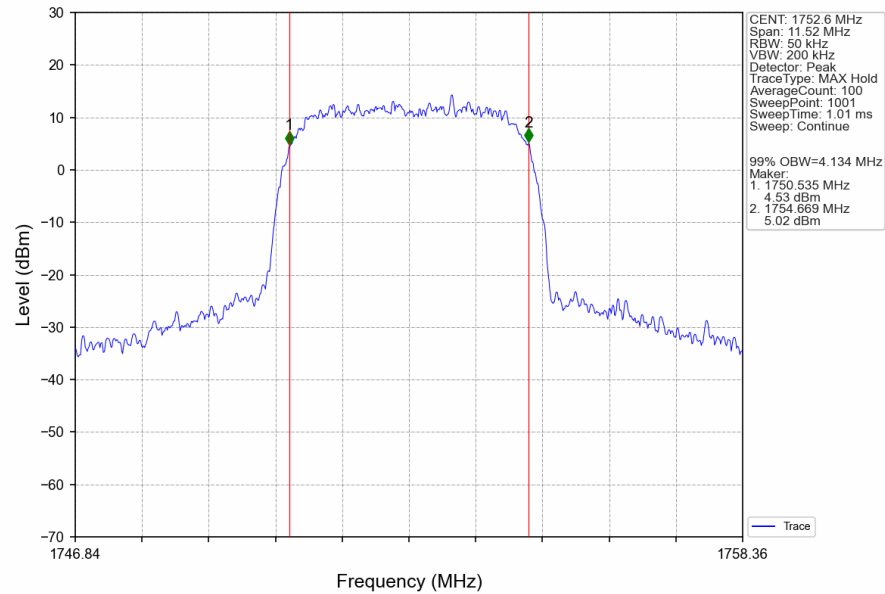
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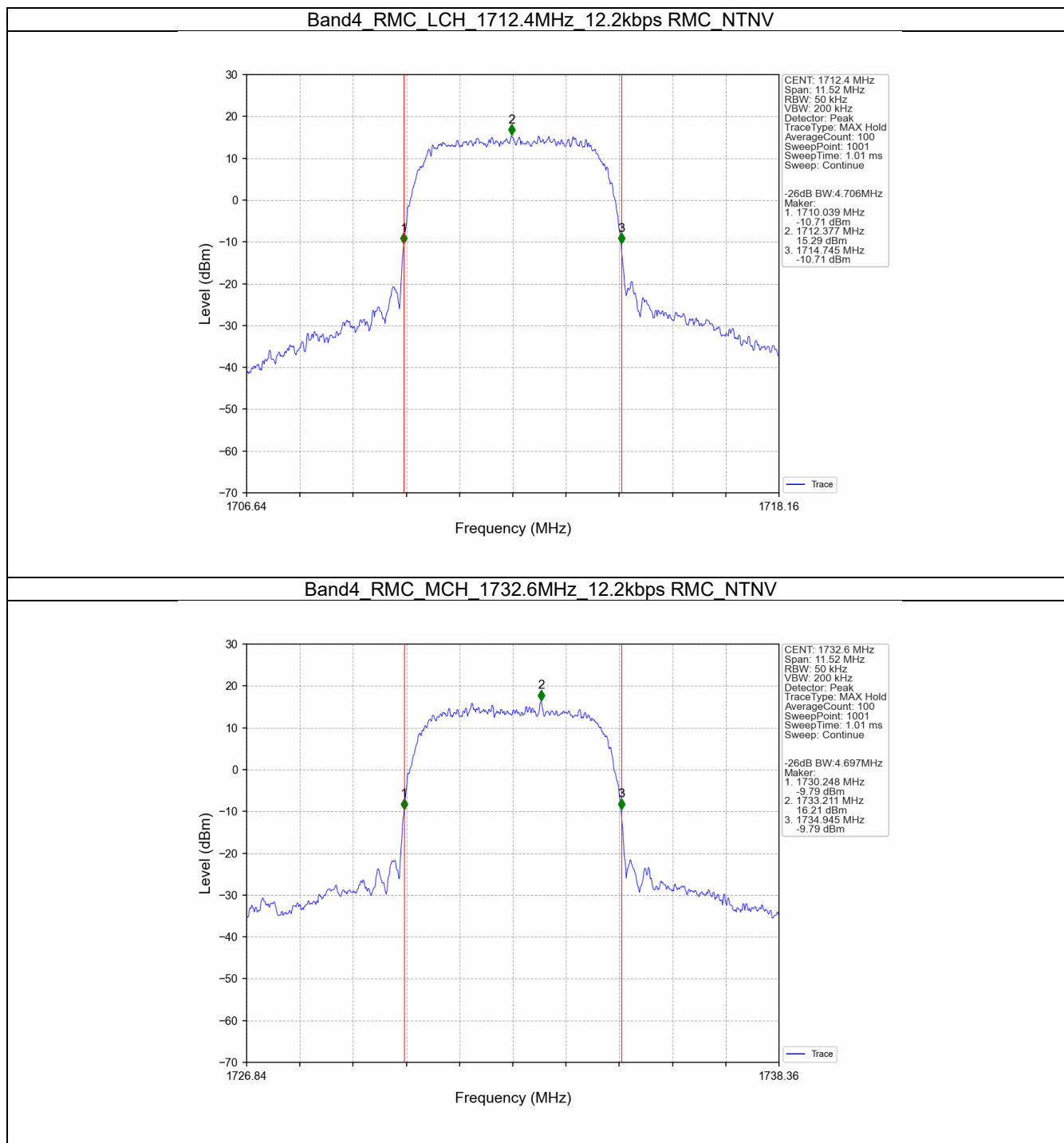
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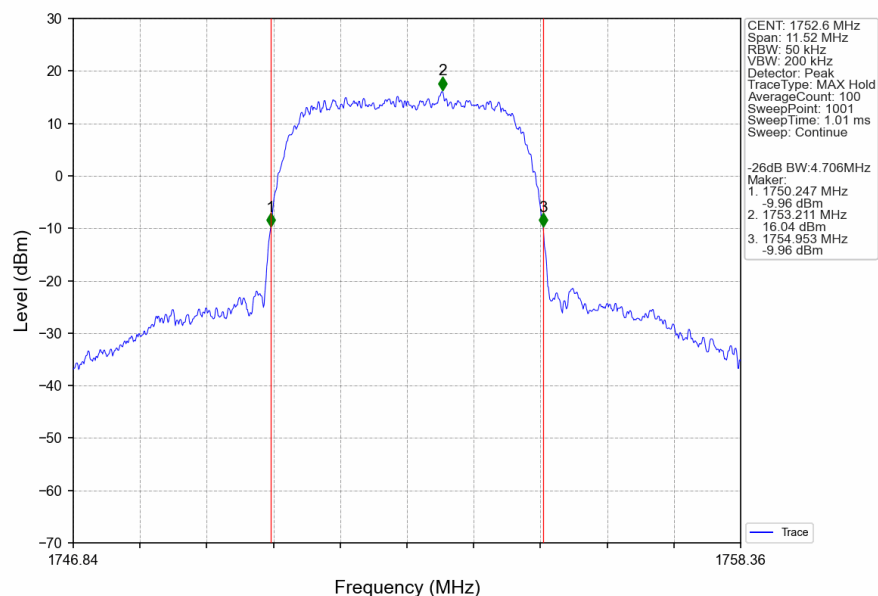
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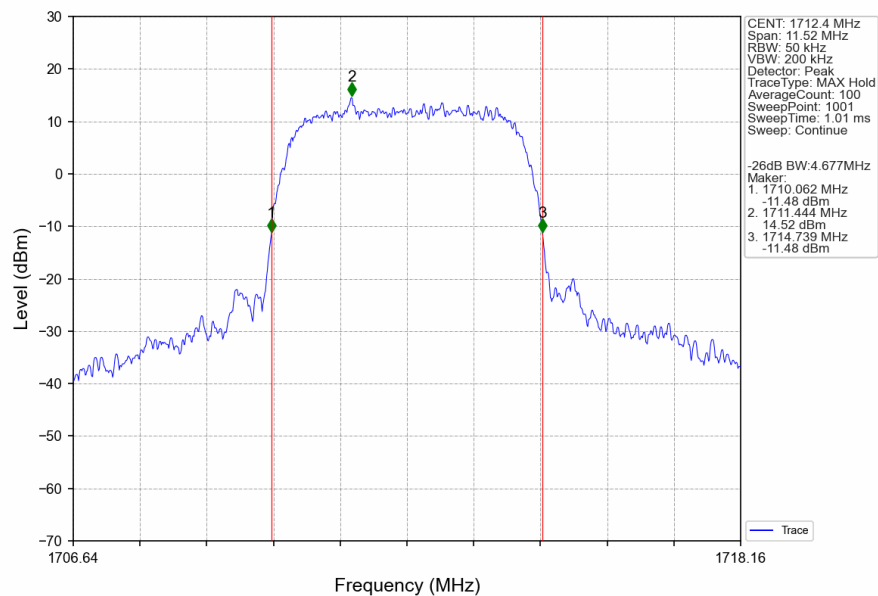
3.2.2 Band4_XDB



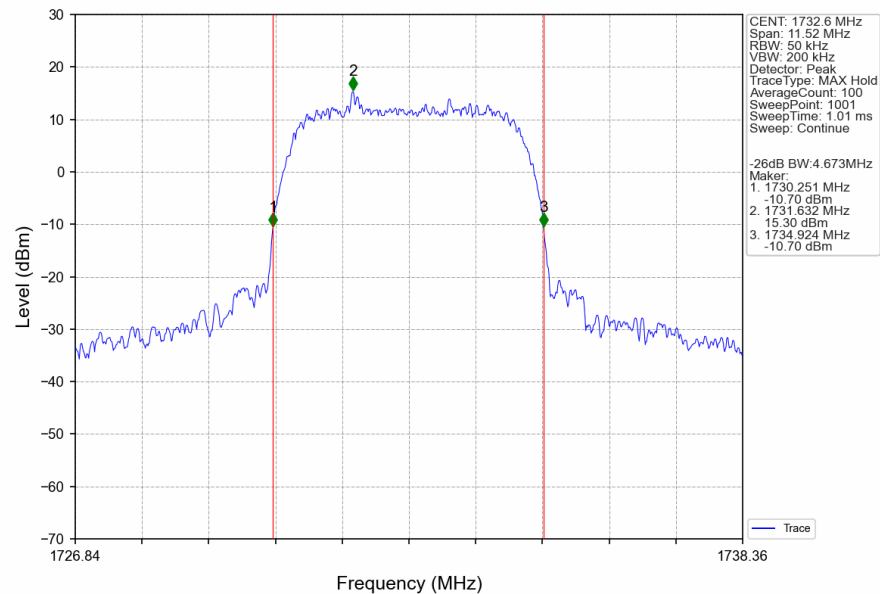
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



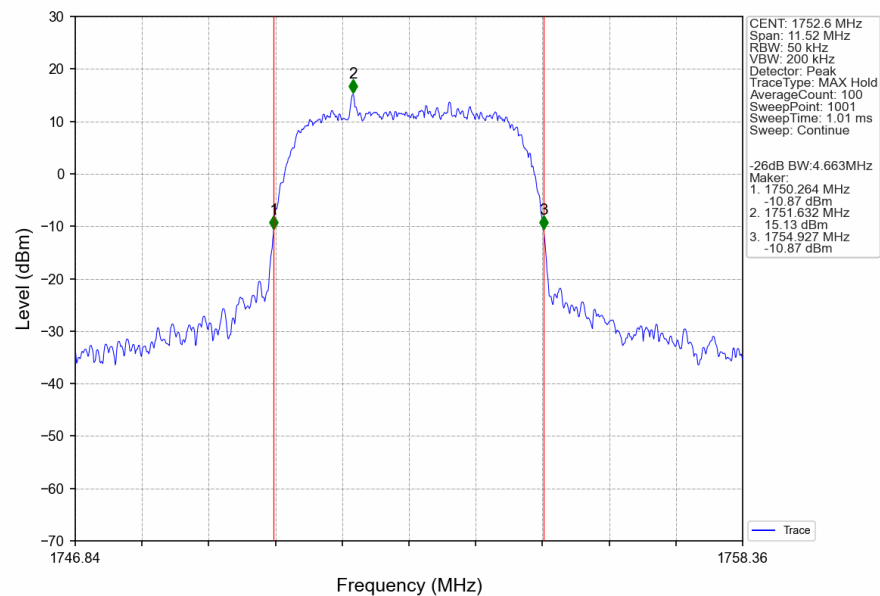
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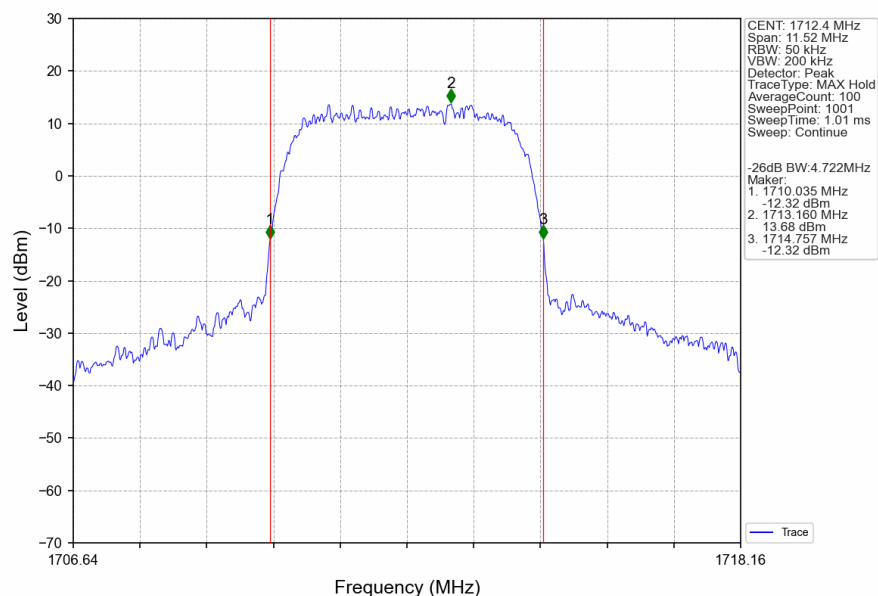
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



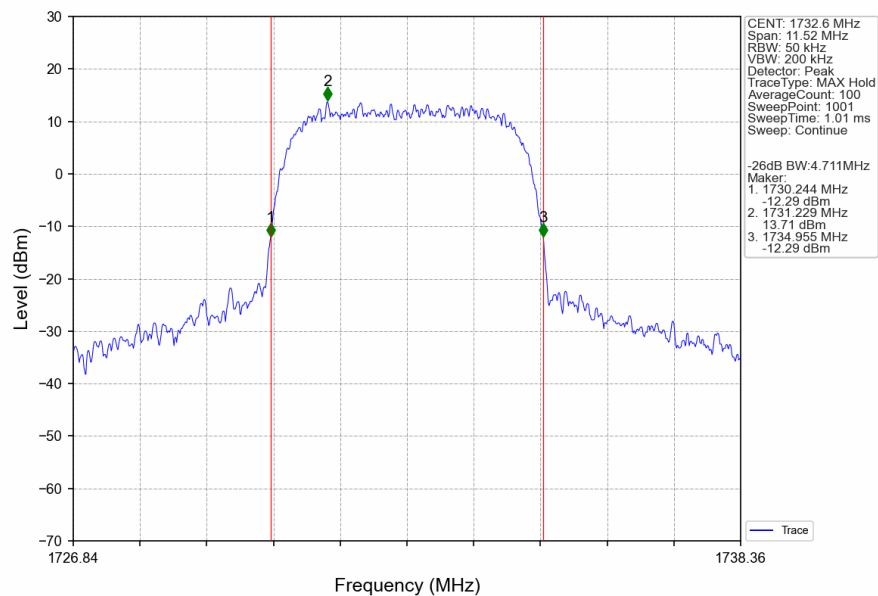
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

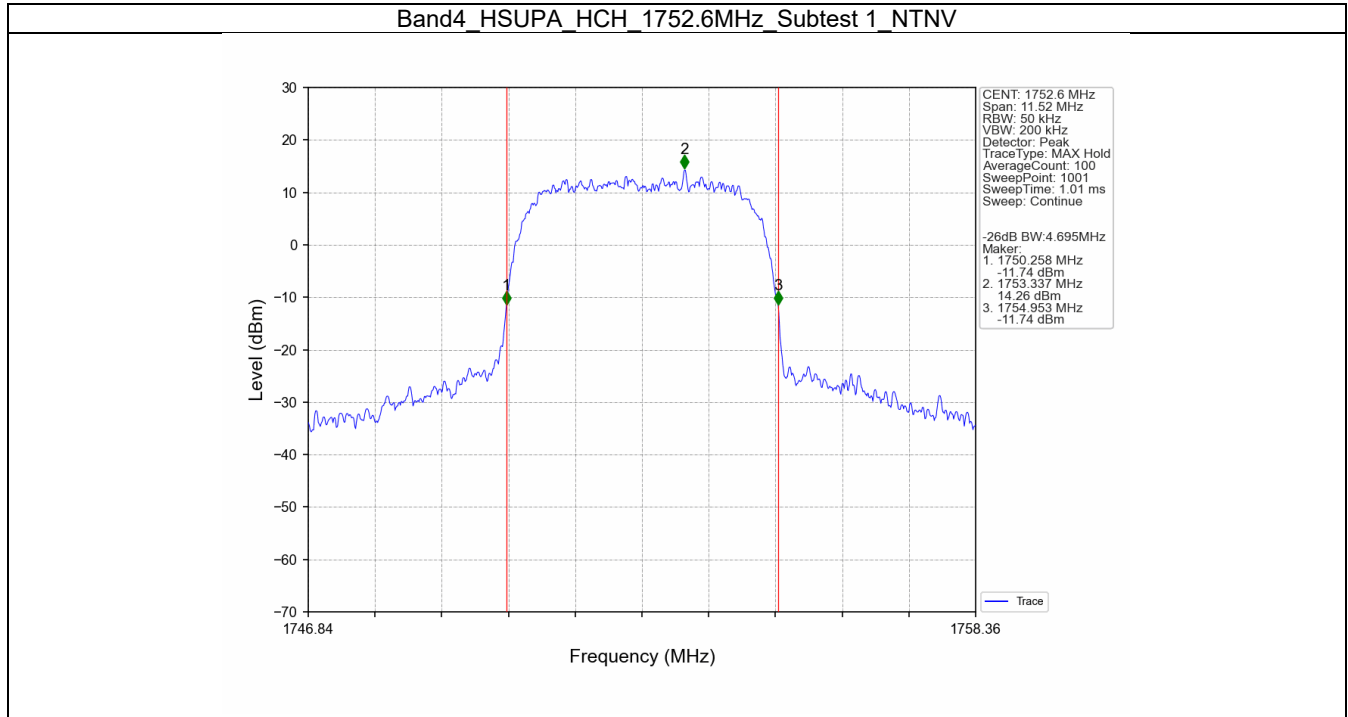


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV







4. Peak-Average Ratio

4.1 Test Result

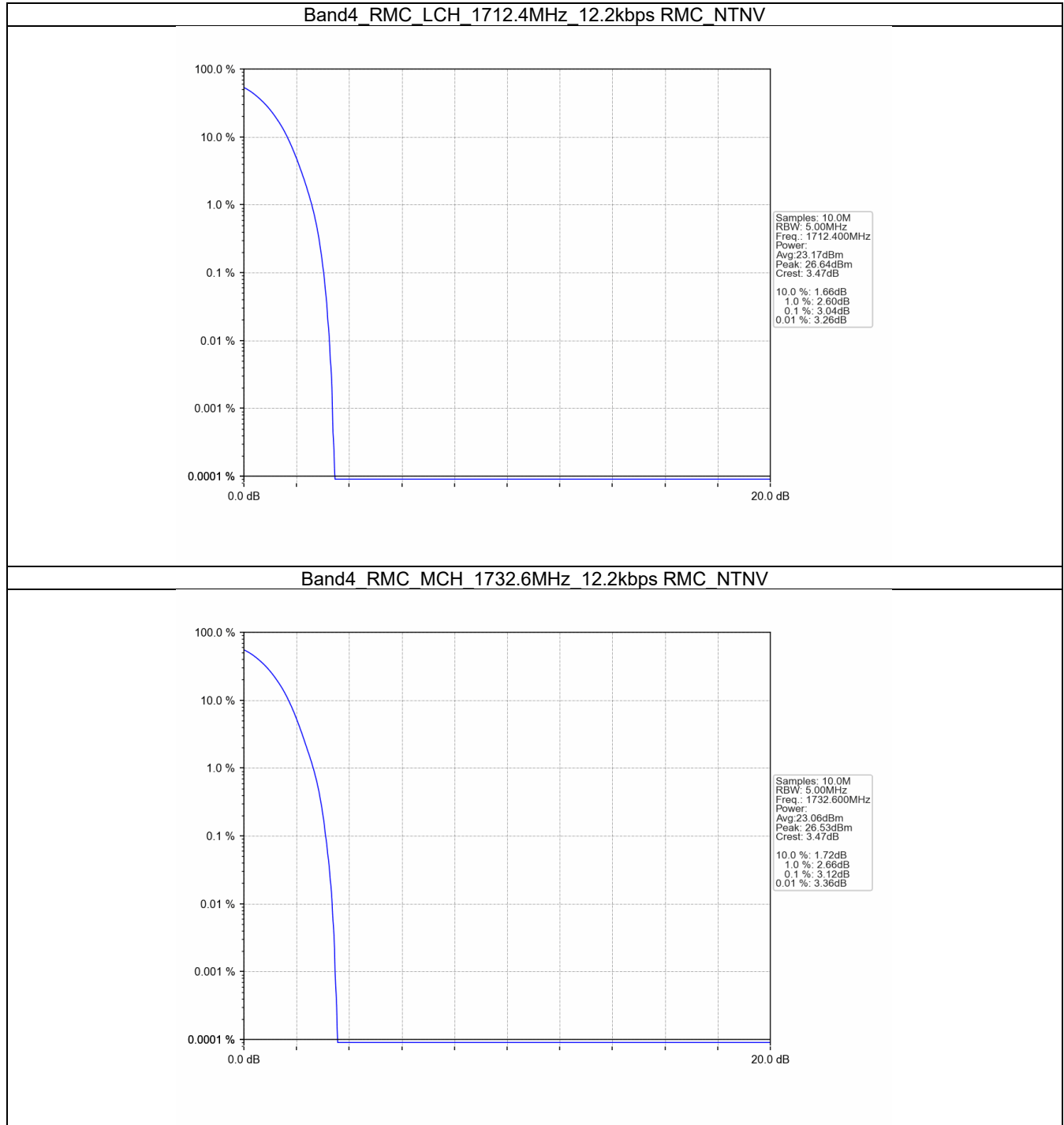
4.1.1 Band4

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	3.12	<=13	Pass
			1752.6	2.78	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.70	<=13	Pass
			1732.6	5.70	<=13	Pass
			1752.6	5.56	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.96	<=13	Pass
			1732.6	7.08	<=13	Pass
			1752.6	6.62	<=13	Pass

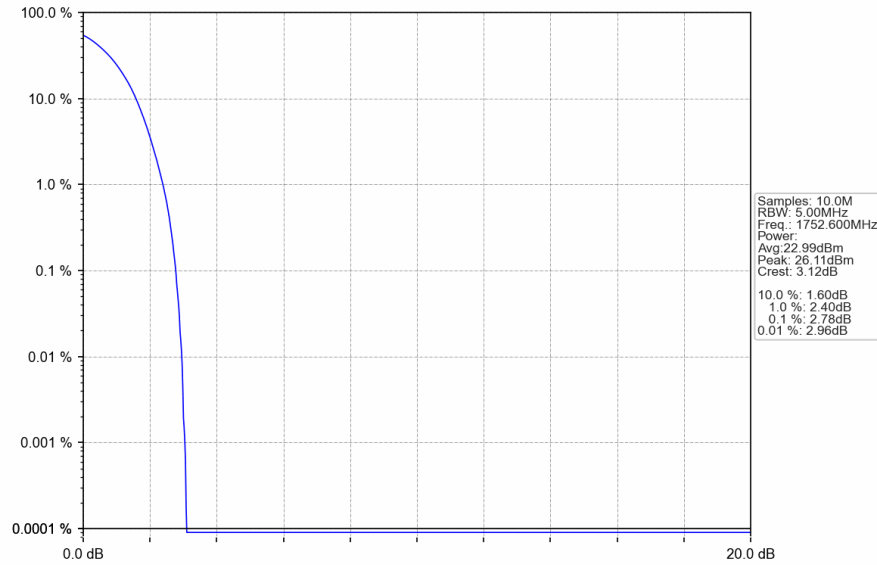


4.2 Test Graph

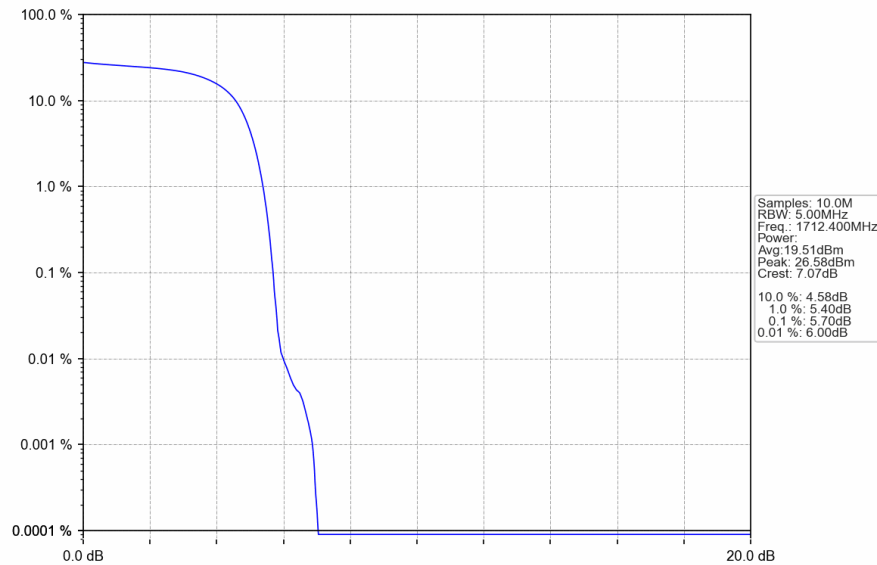
4.2.1 Band4



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV

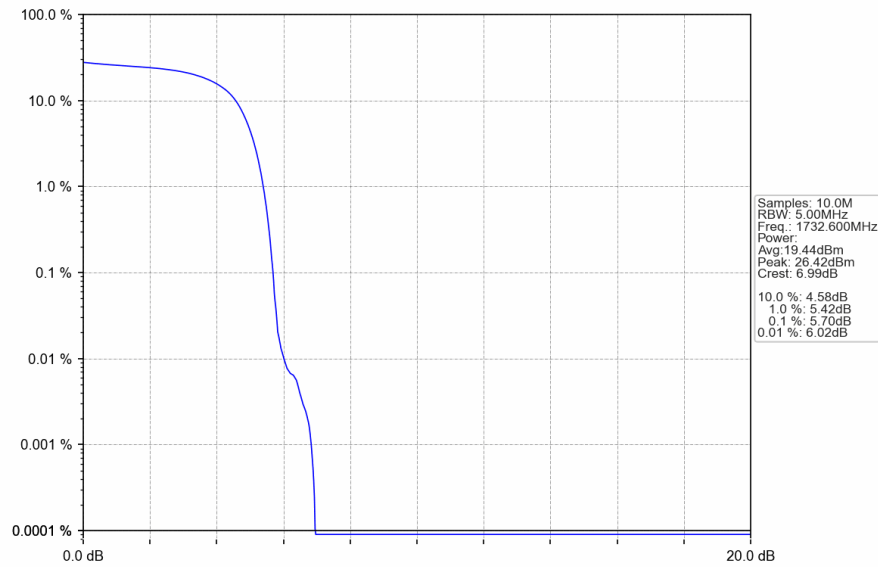


Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV

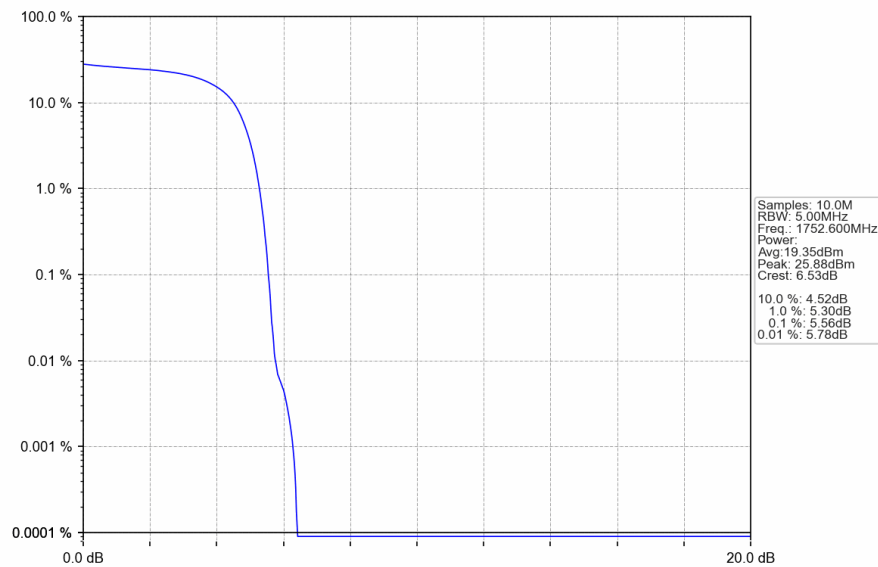




Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV

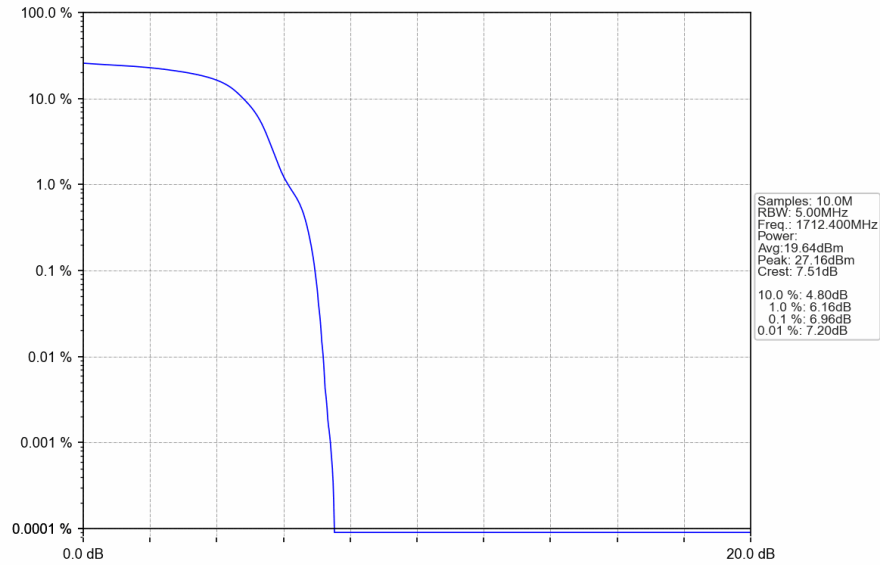


Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

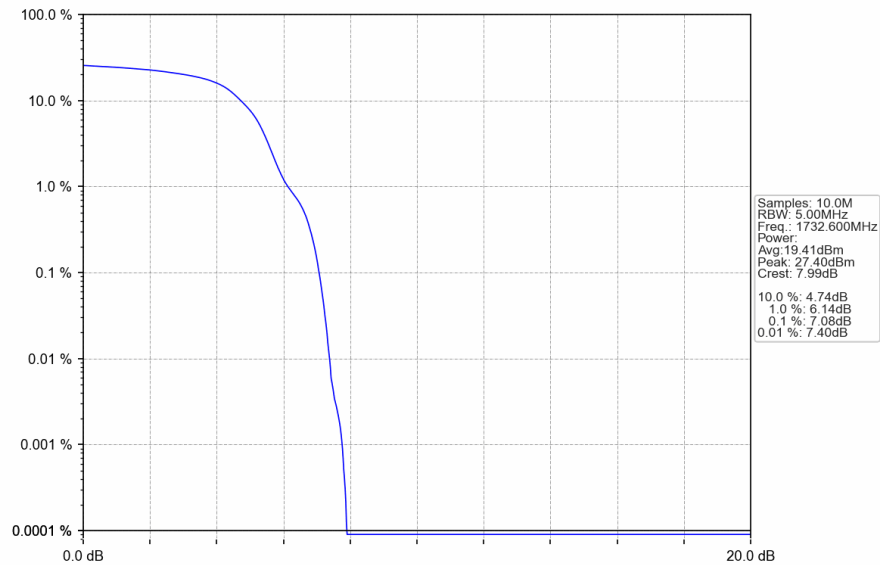




Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV

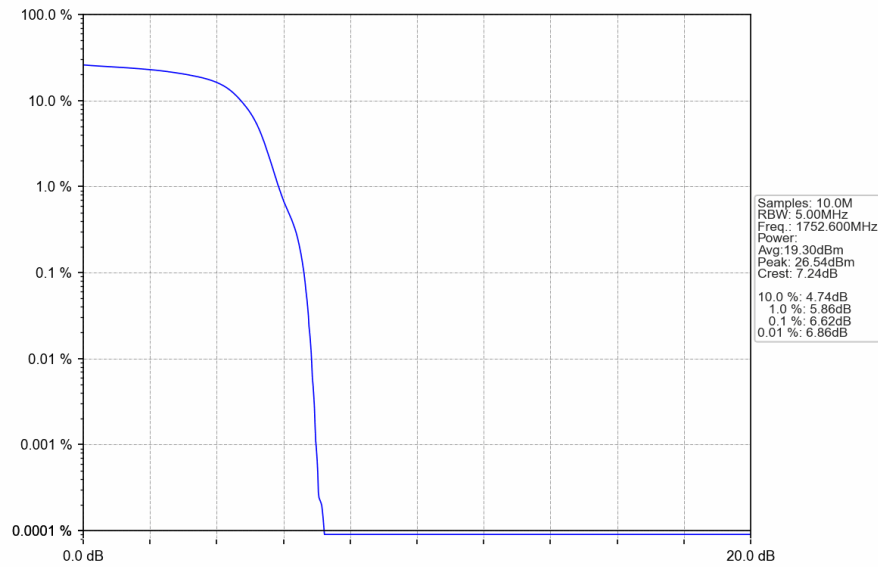


Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV





Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV





5. Spurious Emission

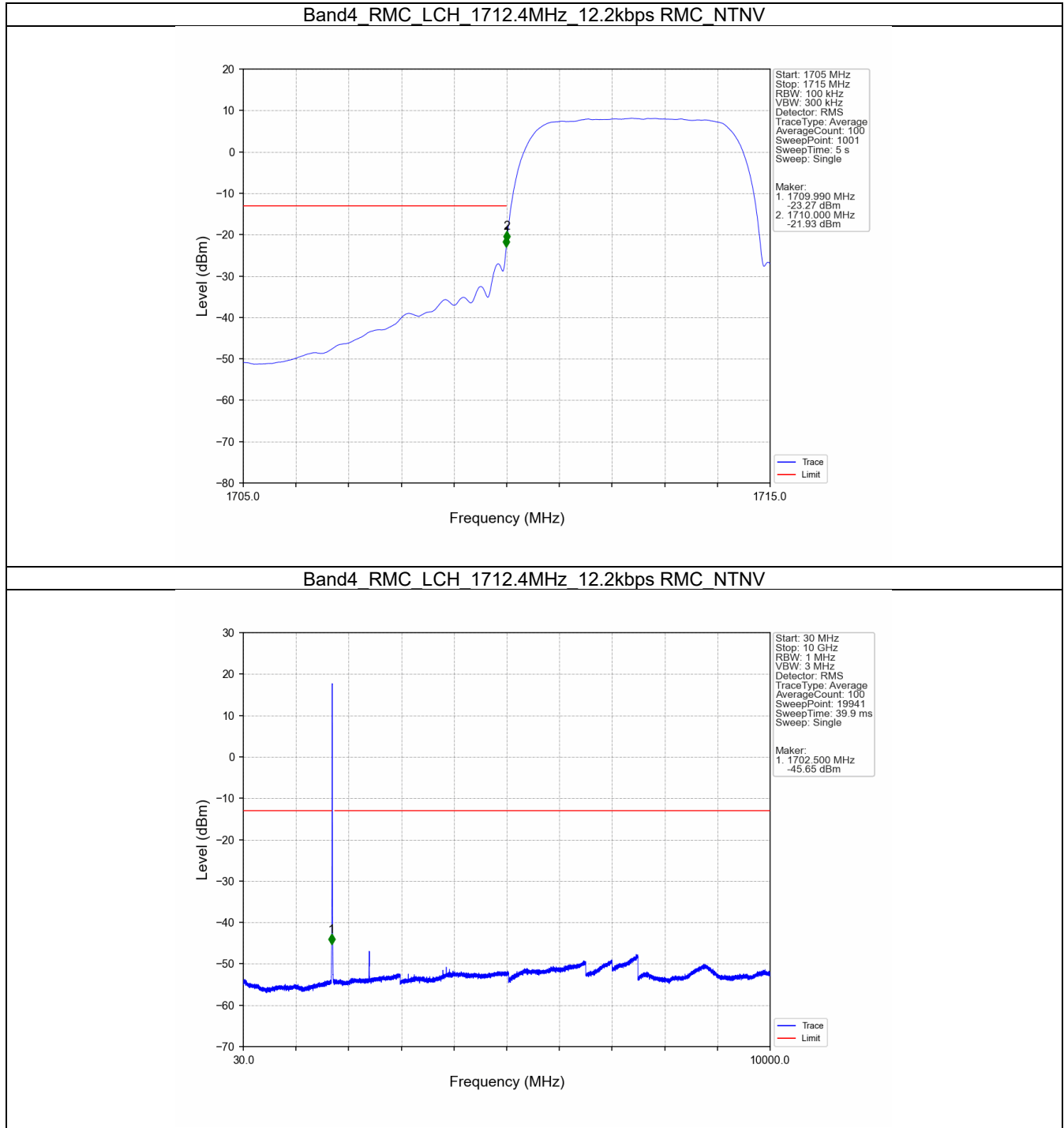
5.1 Test Result

5.1.1 Band4

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	

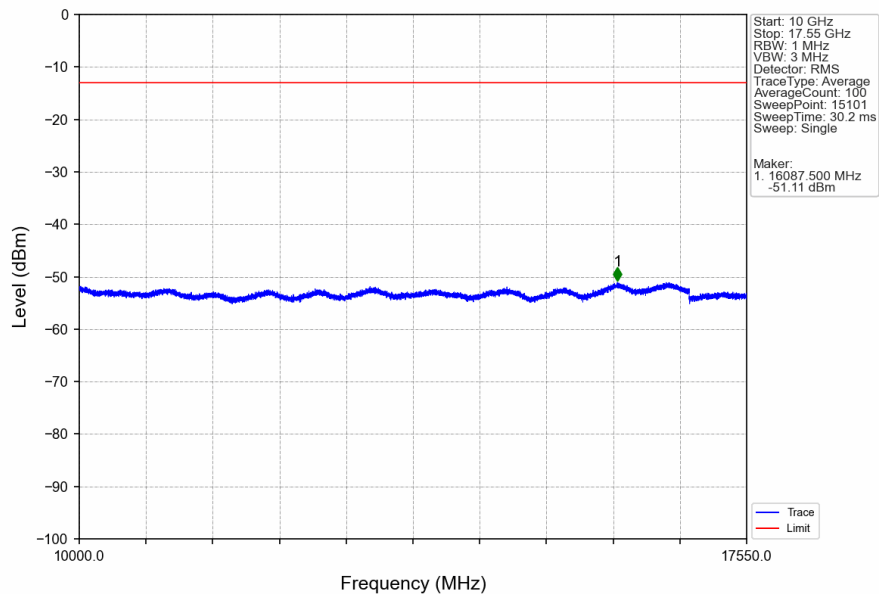
5.2 Test Graph

5.2.1 Band4

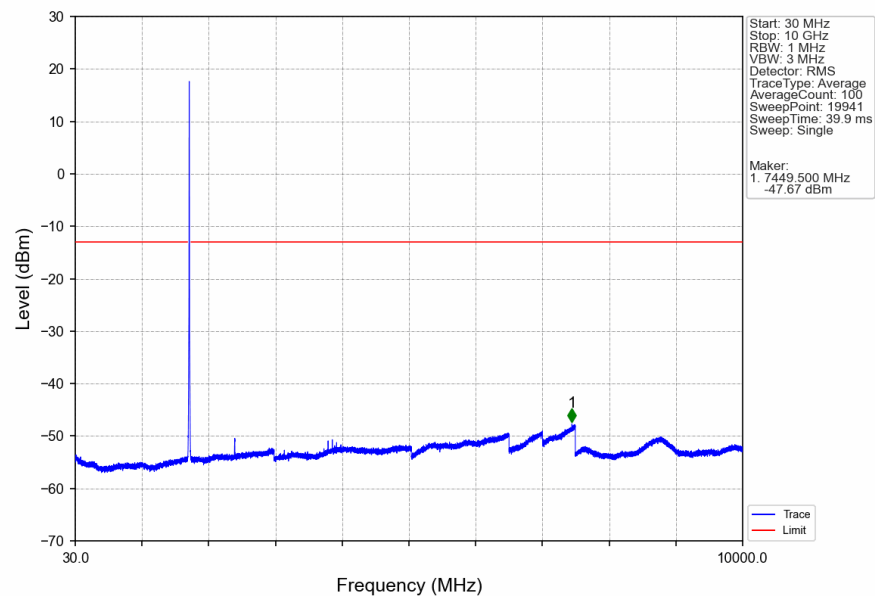




Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV

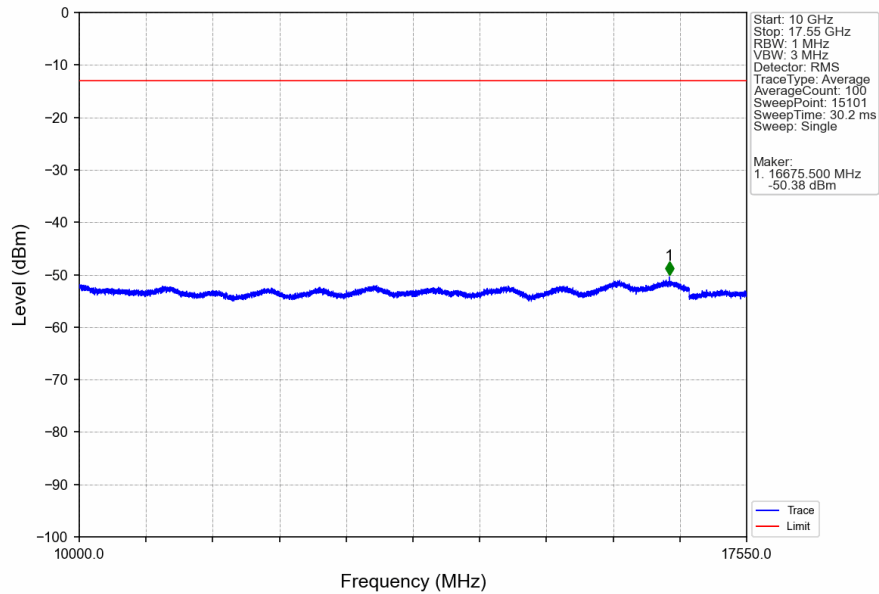


Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV

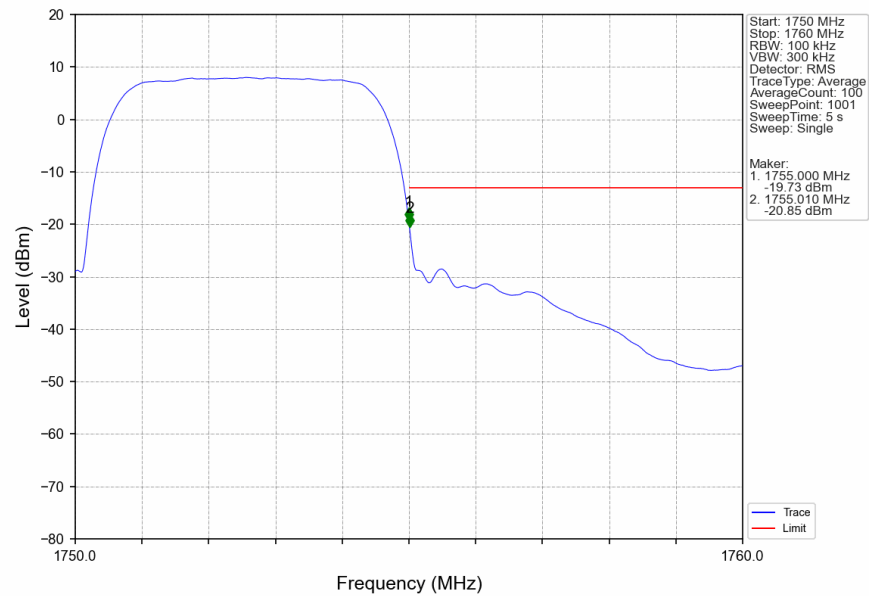




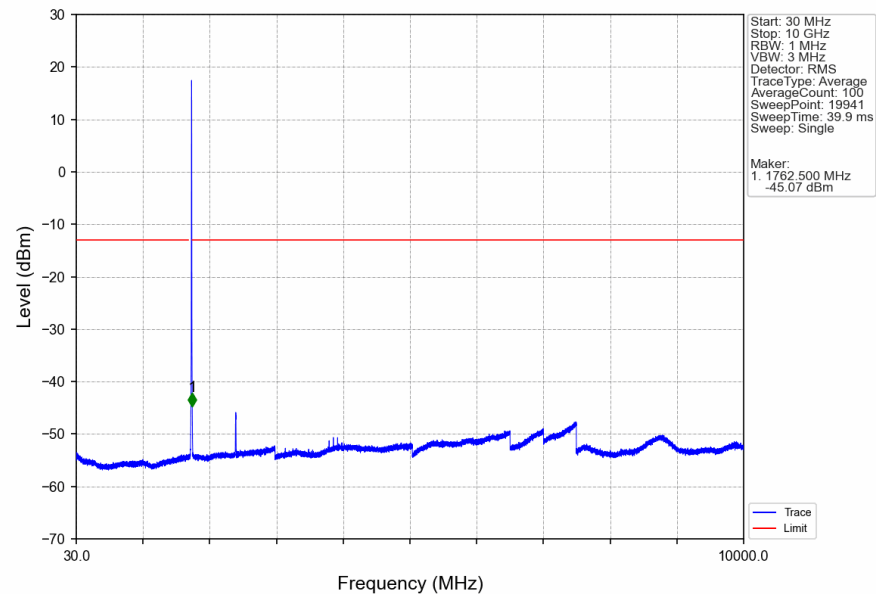
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



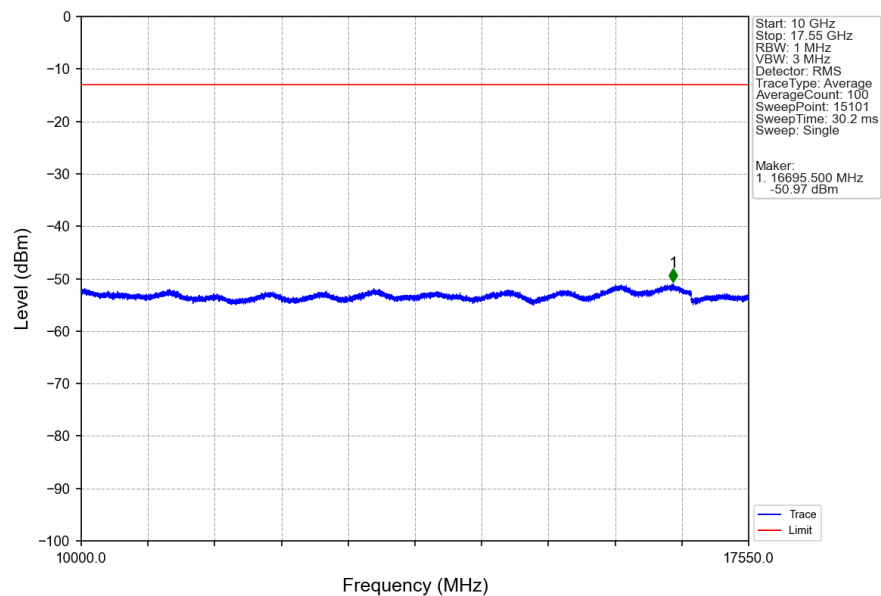
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



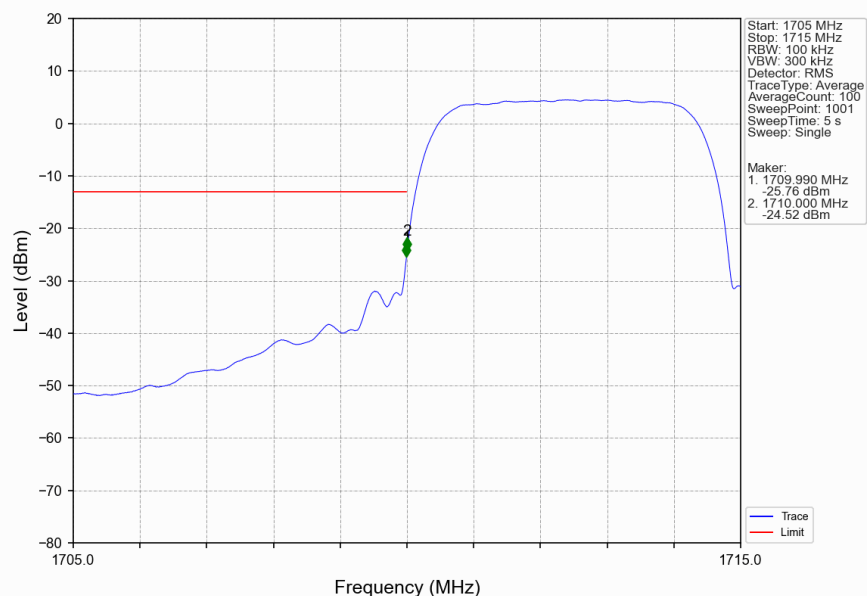
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



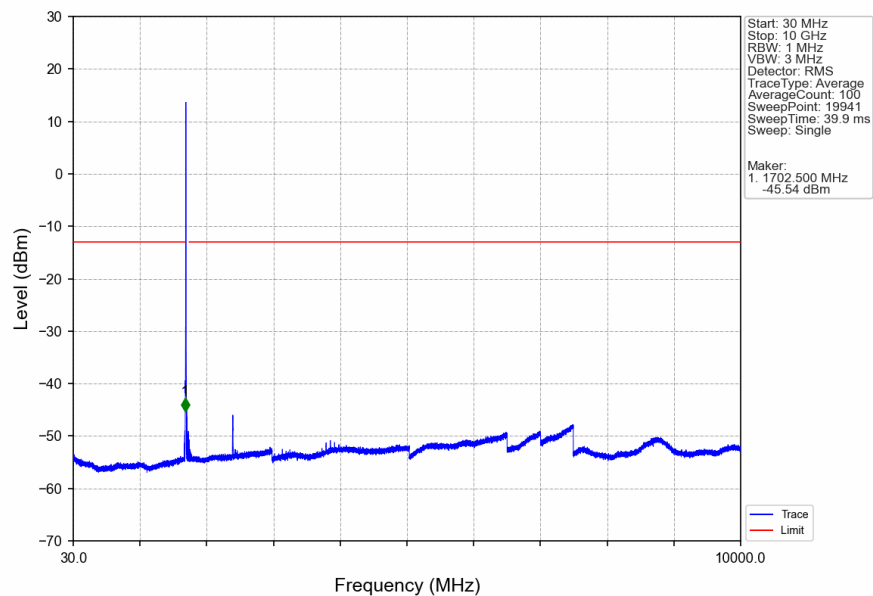
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV

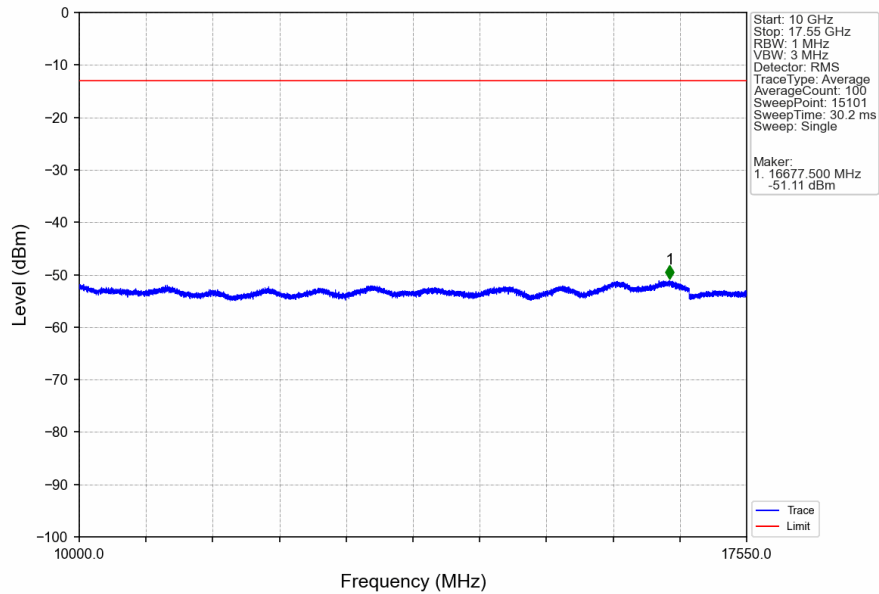


Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV

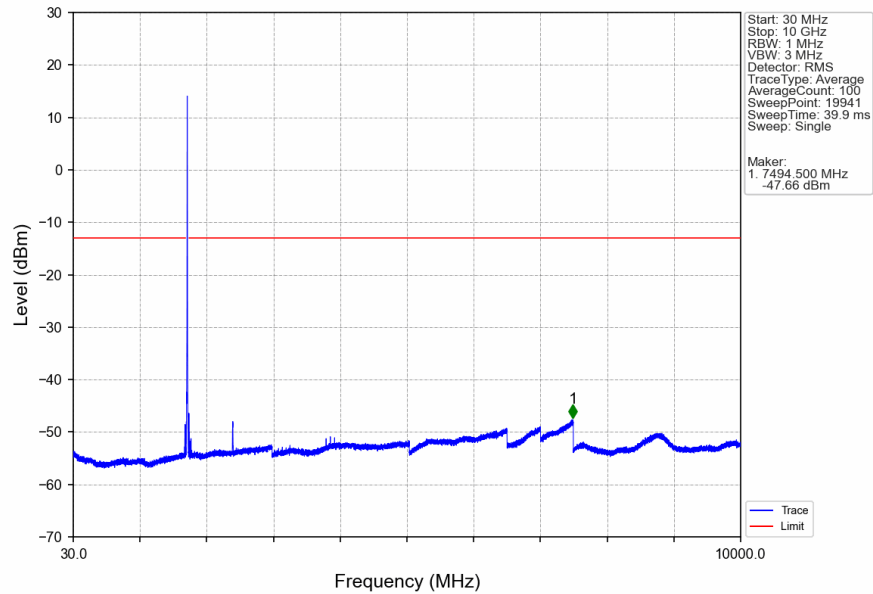




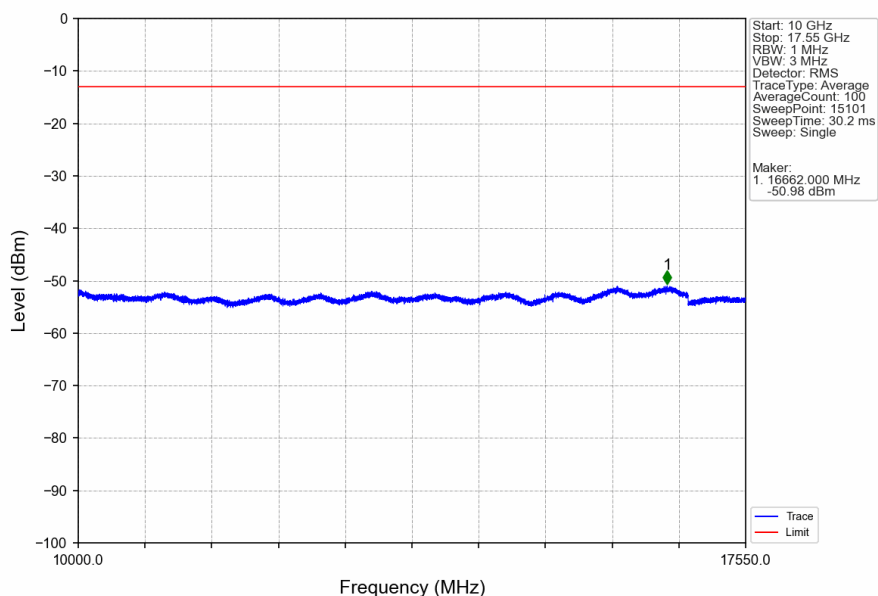
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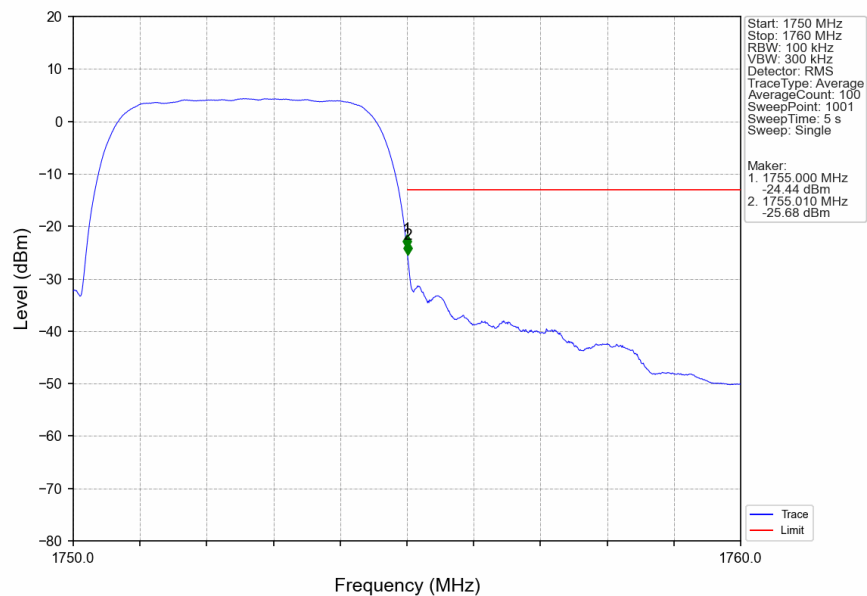
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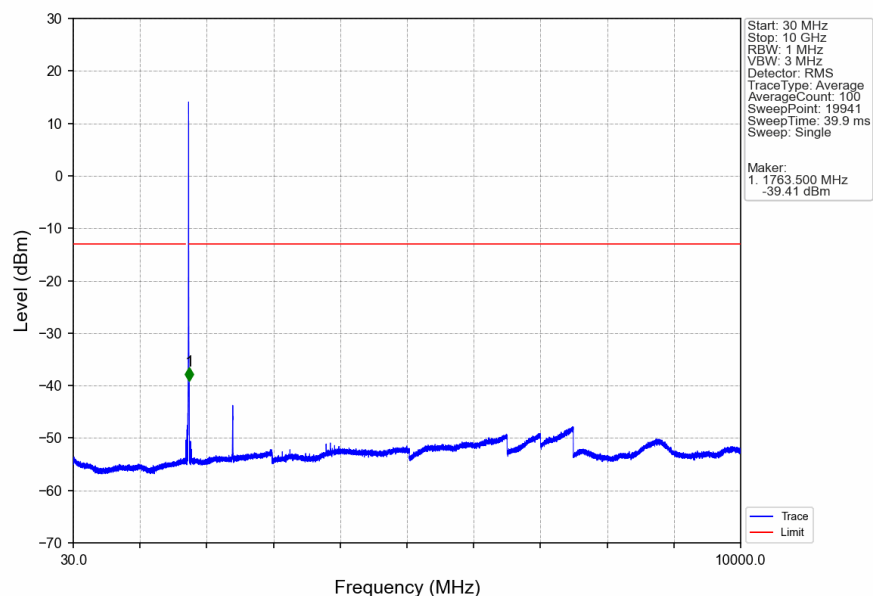
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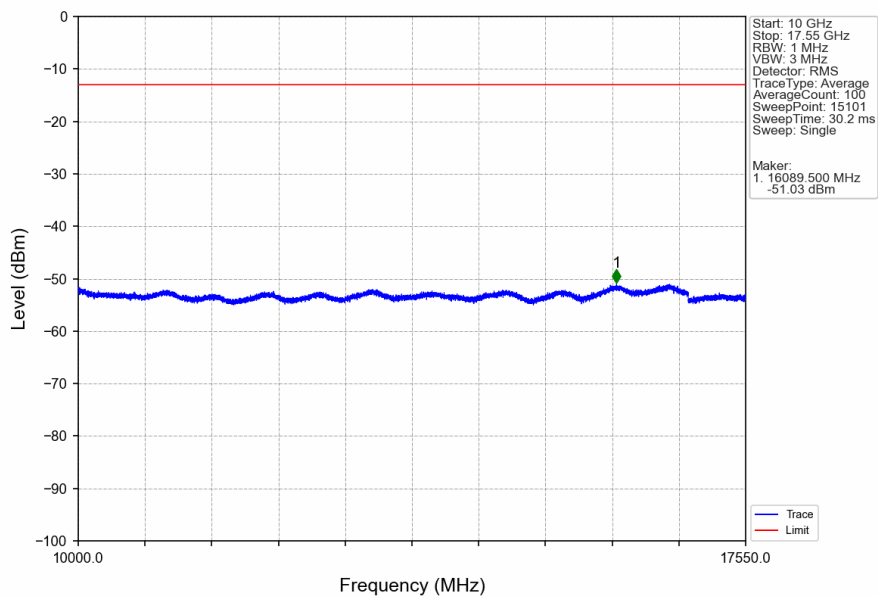
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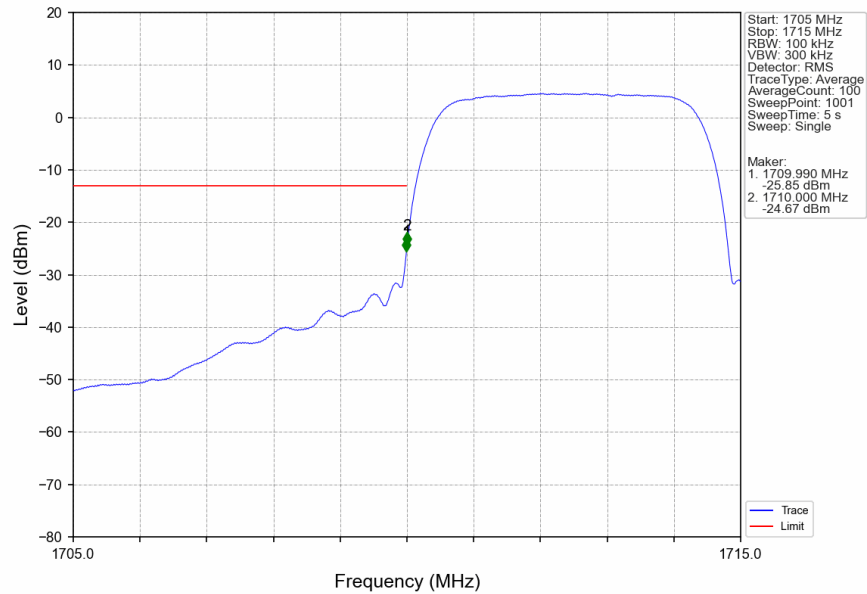
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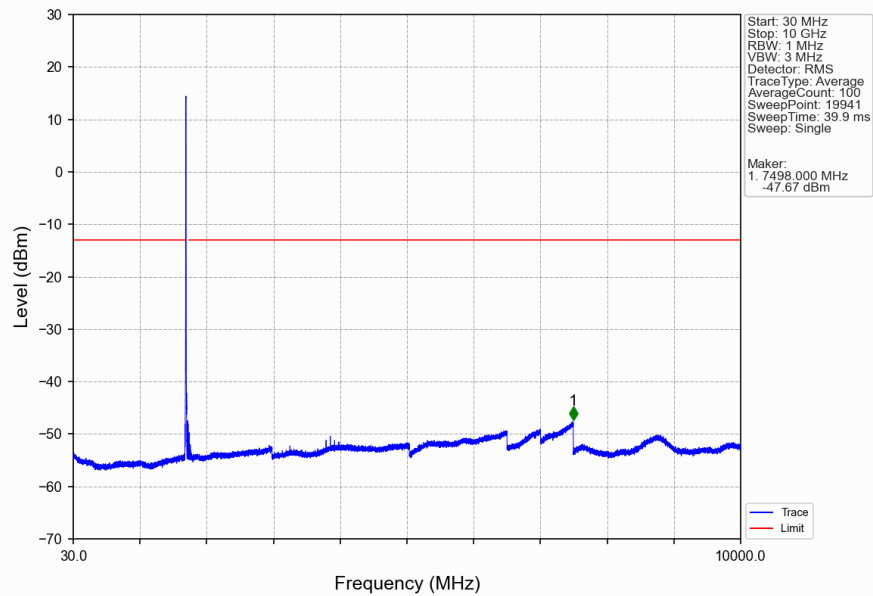
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Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV

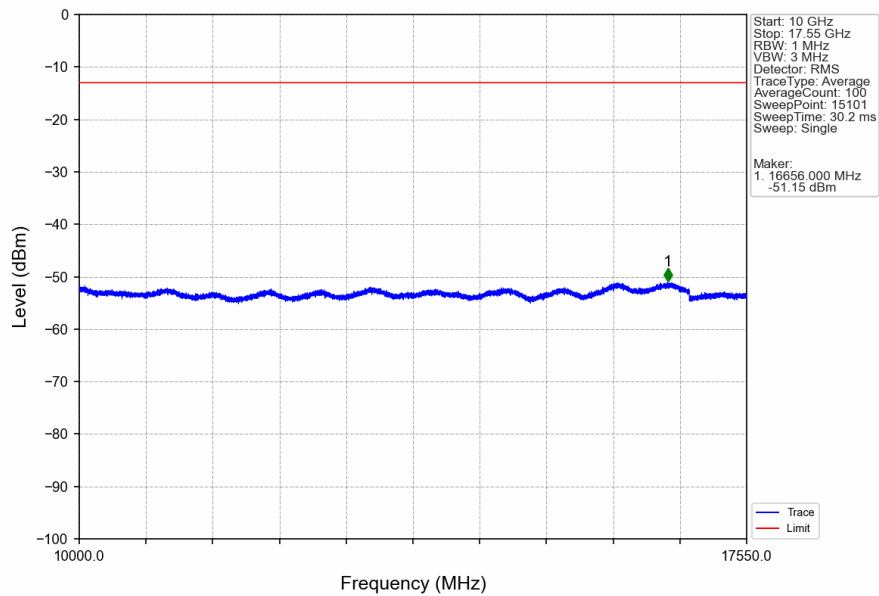


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV

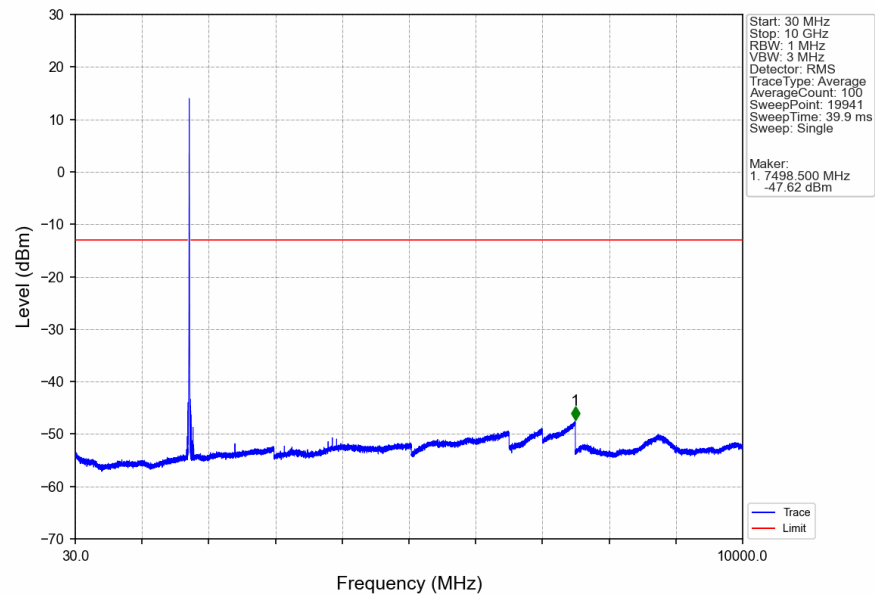




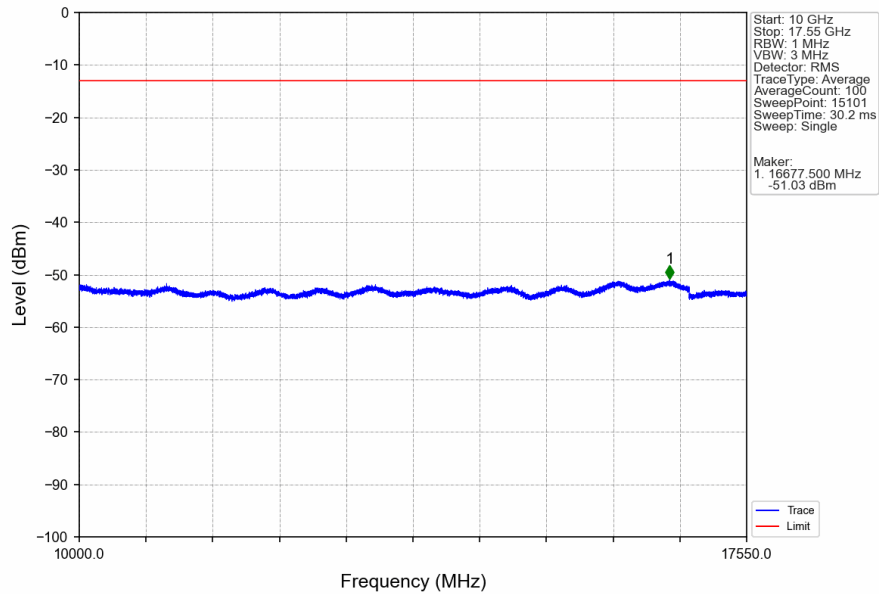
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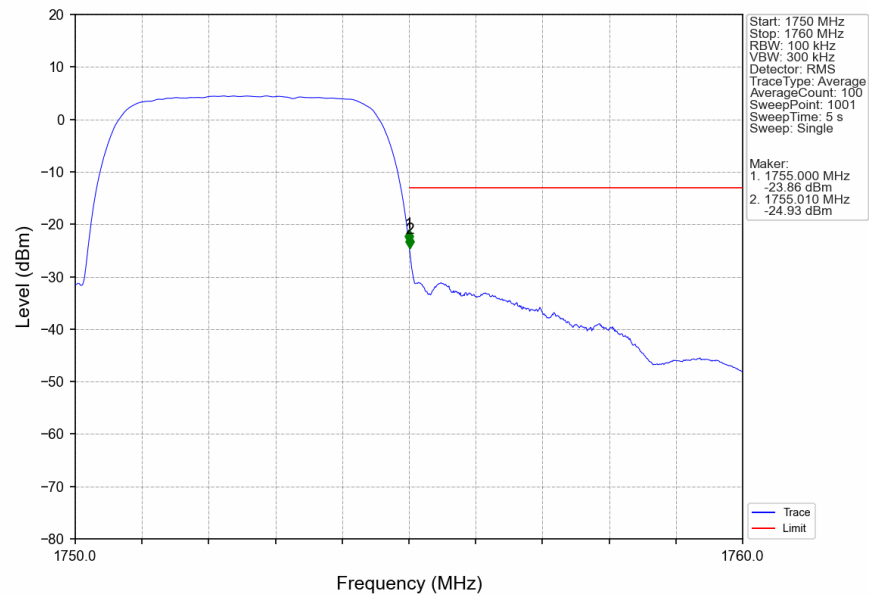
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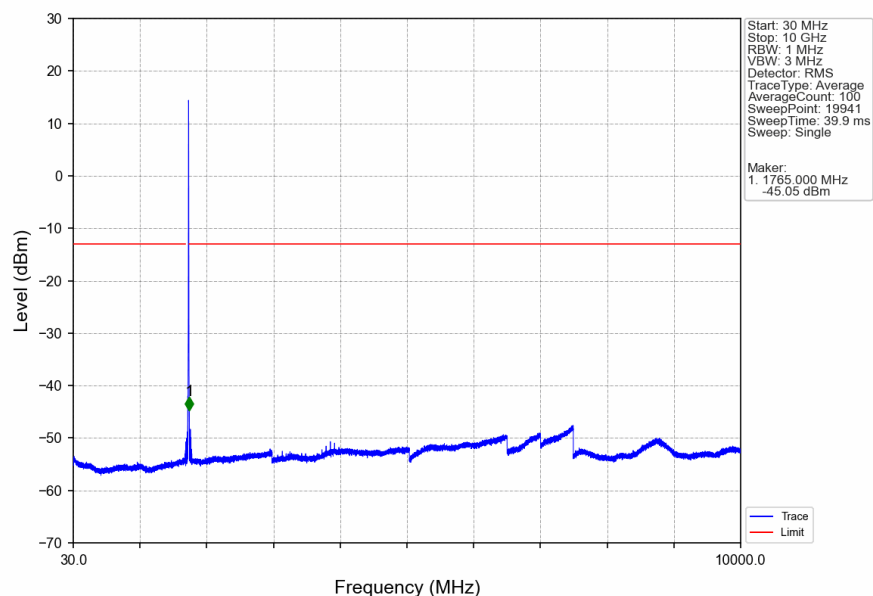
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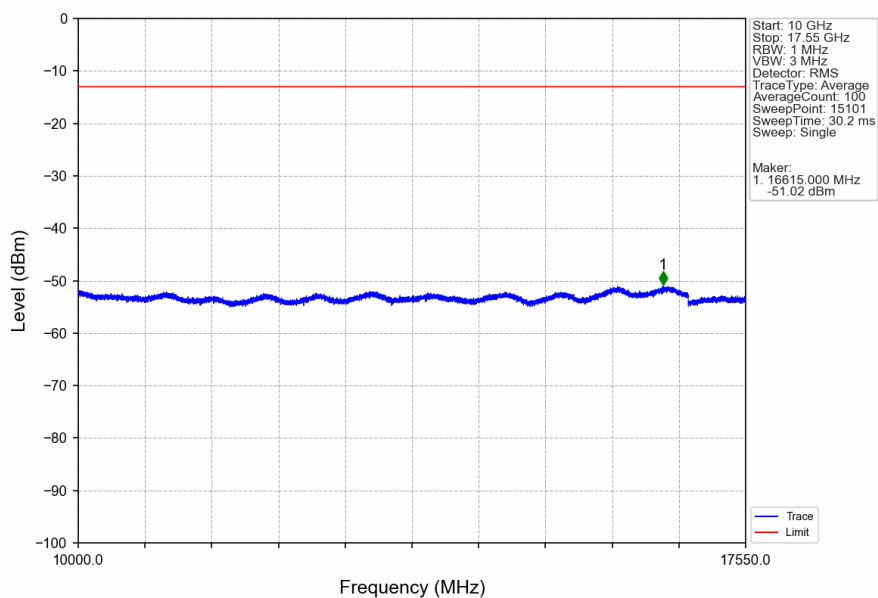
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



---End of Attachment---