

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band IV_EIRP

Band: IV								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	24.62	-2.90	21.72	<=30	Pass
			1732.6	24.64	-2.90	21.74	<=30	Pass
			1752.6	23.78	-2.90	20.88	<=30	Pass
	HSDPA	Subtest 1	1712.4	22.63	-2.90	19.73	<=30	Pass
		Subtest 2	1712.4	22.65	-2.90	19.75	<=30	Pass
		Subtest 3	1712.4	22.65	-2.90	19.75	<=30	Pass
		Subtest 4	1712.4	22.63	-2.90	19.73	<=30	Pass
		Subtest 1	1732.6	22.57	-2.90	19.67	<=30	Pass
		Subtest 2	1732.6	22.57	-2.90	19.67	<=30	Pass
		Subtest 3	1732.6	22.57	-2.90	19.67	<=30	Pass
		Subtest 4	1732.6	22.55	-2.90	19.65	<=30	Pass
		Subtest 1	1752.6	21.62	-2.90	18.72	<=30	Pass
		Subtest 2	1752.6	21.63	-2.90	18.73	<=30	Pass
		Subtest 3	1752.6	21.63	-2.90	18.73	<=30	Pass
		Subtest 4	1752.6	21.58	-2.90	18.68	<=30	Pass
	HSUPA	Subtest 1	1712.4	19.72	-2.90	16.82	<=30	Pass
		Subtest 2	1712.4	19.90	-2.90	17.00	<=30	Pass
		Subtest 3	1712.4	19.92	-2.90	17.02	<=30	Pass
		Subtest 4	1712.4	19.72	-2.90	16.82	<=30	Pass
		Subtest 5	1712.4	20.36	-2.90	17.46	<=30	Pass
		Subtest 1	1732.6	20.22	-2.90	17.32	<=30	Pass
		Subtest 2	1732.6	20.22	-2.90	17.32	<=30	Pass
		Subtest 3	1732.6	19.73	-2.90	16.83	<=30	Pass
		Subtest 4	1732.6	19.91	-2.90	17.01	<=30	Pass
		Subtest 5	1732.6	20.15	-2.90	17.25	<=30	Pass
		Subtest 1	1752.6	19.34	-2.90	16.44	<=30	Pass
		Subtest 2	1752.6	19.34	-2.90	16.44	<=30	Pass
		Subtest 3	1752.6	18.86	-2.90	15.96	<=30	Pass
		Subtest 4	1752.6	19.03	-2.90	16.13	<=30	Pass
		Subtest 5	1752.6	19.26	-2.90	16.36	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band IV

Band: IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	LV	3.090	0.0018	-2.5 to 2.5	Pass
			NV	3.254	0.0019	-2.5 to 2.5	Pass
			HV	0.873	0.0005	-2.5 to 2.5	Pass
		-30	NV	0.873	0.0005	-2.5 to 2.5	Pass
		-20	NV	1.187	0.0007	-2.5 to 2.5	Pass
		-10	NV	4.556	0.0027	-2.5 to 2.5	Pass
		0	NV	3.319	0.0019	-2.5 to 2.5	Pass
		10	NV	2.625	0.0015	-2.5 to 2.5	Pass
		30	NV	-0.730	-0.0004	-2.5 to 2.5	Pass
		40	NV	0.215	0.0001	-2.5 to 2.5	Pass
		50	NV	0.057	0.0000	-2.5 to 2.5	Pass
	1732.6	20	LV	2.496	0.0014	-2.5 to 2.5	Pass
			NV	-0.994	-0.0006	-2.5 to 2.5	Pass
			HV	-0.443	-0.0003	-2.5 to 2.5	Pass
		-30	NV	0.072	0.0000	-2.5 to 2.5	Pass
		-20	NV	-2.103	-0.0012	-2.5 to 2.5	Pass
		-10	NV	3.226	0.0019	-2.5 to 2.5	Pass
		0	NV	-0.086	0.0000	-2.5 to 2.5	Pass
		10	NV	-1.938	-0.0011	-2.5 to 2.5	Pass
		30	NV	0.651	0.0004	-2.5 to 2.5	Pass
		40	NV	-0.672	-0.0004	-2.5 to 2.5	Pass
		50	NV	-2.346	-0.0014	-2.5 to 2.5	Pass
	1752.6	20	LV	-5.572	-0.0032	-2.5 to 2.5	Pass
			NV	-1.838	-0.0010	-2.5 to 2.5	Pass
			HV	-2.317	-0.0013	-2.5 to 2.5	Pass
		-30	NV	-4.377	-0.0025	-2.5 to 2.5	Pass
		-20	NV	-2.260	-0.0013	-2.5 to 2.5	Pass
		-10	NV	-3.068	-0.0018	-2.5 to 2.5	Pass
		0	NV	-2.868	-0.0016	-2.5 to 2.5	Pass
		10	NV	-1.116	-0.0006	-2.5 to 2.5	Pass
		30	NV	-2.096	-0.0012	-2.5 to 2.5	Pass
		40	NV	-3.619	-0.0021	-2.5 to 2.5	Pass
		50	NV	-1.574	-0.0009	-2.5 to 2.5	Pass
HSDPA	1712.4	20	LV	-10.071	-0.0059	-2.5 to 2.5	Pass
			NV	-6.537	-0.0038	-2.5 to 2.5	Pass
			HV	-3.054	-0.0018	-2.5 to 2.5	Pass
		-30	NV	-2.825	-0.0016	-2.5 to 2.5	Pass
		-20	NV	-2.167	-0.0013	-2.5 to 2.5	Pass
		-10	NV	-2.110	-0.0012	-2.5 to 2.5	Pass
		0	NV	-1.287	-0.0008	-2.5 to 2.5	Pass
		10	NV	0.265	0.0002	-2.5 to 2.5	Pass
		30	NV	0.501	0.0003	-2.5 to 2.5	Pass
		40	NV	-1.738	-0.0010	-2.5 to 2.5	Pass
		50	NV	-1.616	-0.0009	-2.5 to 2.5	Pass
	1732.6	20	LV	-0.229	-0.0001	-2.5 to 2.5	Pass
			NV	-1.216	-0.0007	-2.5 to 2.5	Pass
			HV	-0.515	-0.0003	-2.5 to 2.5	Pass

		-30	NV	-3.169	-0.0018	-2.5 to 2.5	Pass
		-20	NV	-0.007	0.0000	-2.5 to 2.5	Pass
		-10	NV	-1.202	-0.0007	-2.5 to 2.5	Pass
		0	NV	-0.429	-0.0002	-2.5 to 2.5	Pass
		10	NV	-0.594	-0.0003	-2.5 to 2.5	Pass
		30	NV	-2.503	-0.0014	-2.5 to 2.5	Pass
		40	NV	-4.506	-0.0026	-2.5 to 2.5	Pass
		50	NV	0.465	0.0003	-2.5 to 2.5	Pass
	1752.6	20	LV	-5.329	-0.0030	-2.5 to 2.5	Pass
			NV	-5.214	-0.0030	-2.5 to 2.5	Pass
			HV	-4.599	-0.0026	-2.5 to 2.5	Pass
		-30	NV	-4.349	-0.0025	-2.5 to 2.5	Pass
		-20	NV	-7.274	-0.0042	-2.5 to 2.5	Pass
		-10	NV	-4.184	-0.0024	-2.5 to 2.5	Pass
		0	NV	-6.173	-0.0035	-2.5 to 2.5	Pass
		10	NV	-1.473	-0.0008	-2.5 to 2.5	Pass
		30	NV	-3.684	-0.0021	-2.5 to 2.5	Pass
		40	NV	-6.952	-0.0040	-2.5 to 2.5	Pass
		50	NV	-5.236	-0.0030	-2.5 to 2.5	Pass
HSUPA	1712.4	20	LV	-1.509	-0.0009	-2.5 to 2.5	Pass
			NV	3.276	0.0019	-2.5 to 2.5	Pass
			HV	6.173	0.0036	-2.5 to 2.5	Pass
		-30	NV	6.595	0.0039	-2.5 to 2.5	Pass
		-20	NV	7.217	0.0042	-2.5 to 2.5	Pass
		-10	NV	6.001	0.0035	-2.5 to 2.5	Pass
		0	NV	7.010	0.0041	-2.5 to 2.5	Pass
		10	NV	6.008	0.0035	-2.5 to 2.5	Pass
		30	NV	8.569	0.0050	-2.5 to 2.5	Pass
		40	NV	10.943	0.0064	-2.5 to 2.5	Pass
		50	NV	8.640	0.0050	-2.5 to 2.5	Pass
	1732.6	20	LV	-4.950	-0.0029	-2.5 to 2.5	Pass
			NV	-0.372	-0.0002	-2.5 to 2.5	Pass
			HV	2.747	0.0016	-2.5 to 2.5	Pass
		-30	NV	3.734	0.0022	-2.5 to 2.5	Pass
		-20	NV	2.804	0.0016	-2.5 to 2.5	Pass
		-10	NV	3.319	0.0019	-2.5 to 2.5	Pass
		0	NV	4.950	0.0029	-2.5 to 2.5	Pass
		10	NV	2.596	0.0015	-2.5 to 2.5	Pass
		30	NV	6.087	0.0035	-2.5 to 2.5	Pass
		40	NV	2.575	0.0015	-2.5 to 2.5	Pass
		50	NV	5.357	0.0031	-2.5 to 2.5	Pass
	1752.6	20	LV	-10.328	-0.0059	-2.5 to 2.5	Pass
			NV	-6.609	-0.0038	-2.5 to 2.5	Pass
			HV	-3.741	-0.0021	-2.5 to 2.5	Pass
		-30	NV	-1.230	-0.0007	-2.5 to 2.5	Pass
		-20	NV	0.379	0.0002	-2.5 to 2.5	Pass
		-10	NV	-0.880	-0.0005	-2.5 to 2.5	Pass
		0	NV	0.744	0.0004	-2.5 to 2.5	Pass
		10	NV	-1.130	-0.0006	-2.5 to 2.5	Pass
		30	NV	-2.332	-0.0013	-2.5 to 2.5	Pass
		40	NV	-2.525	-0.0014	-2.5 to 2.5	Pass
		50	NV	0.601	0.0003	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band IV_OBW

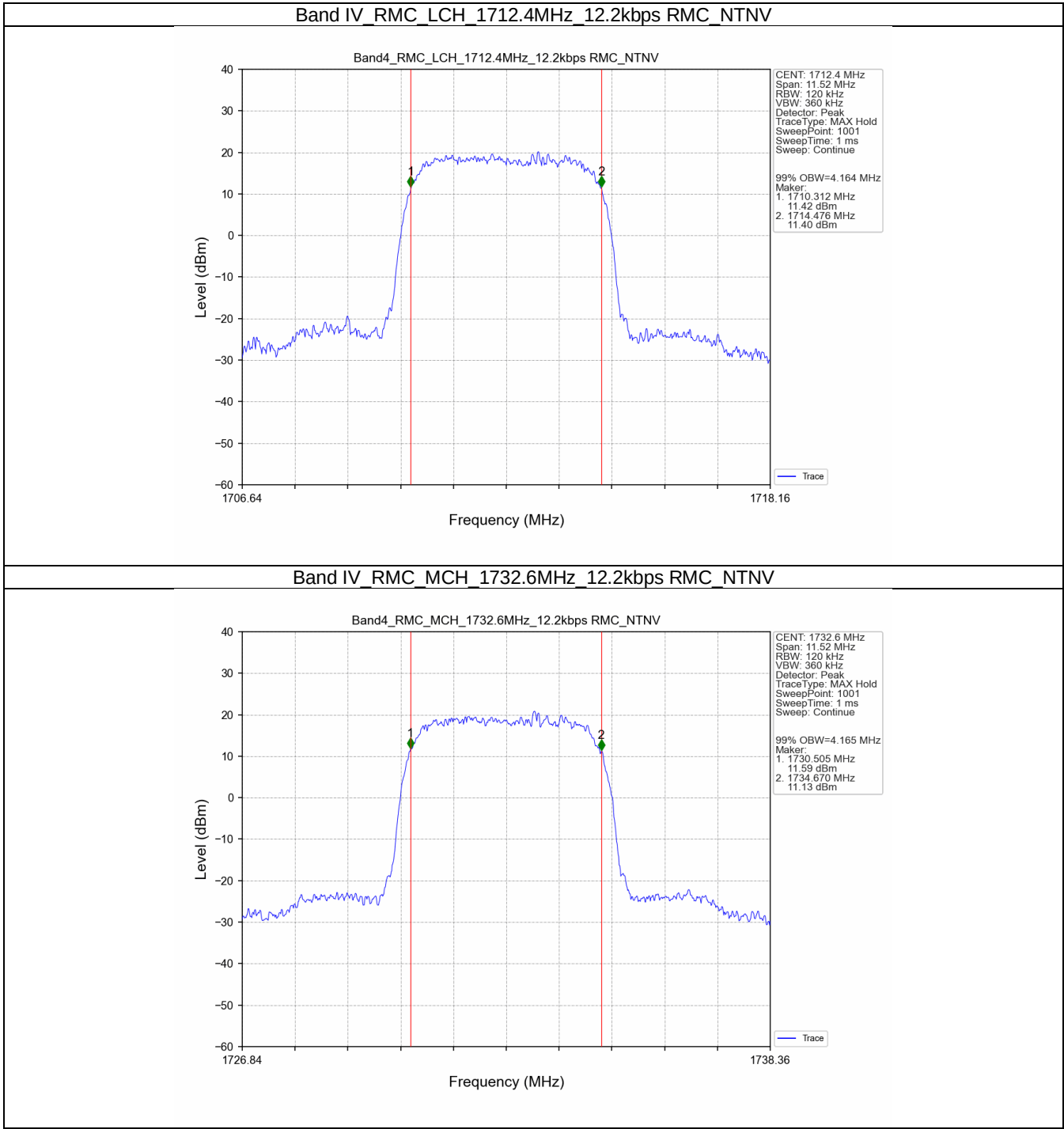
Band: IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.164	/	Pass
			1732.6	4.165	/	Pass
			1752.6	4.160	/	Pass
	HSDPA	Subtest 1	1712.4	4.175	/	Pass
			1732.6	4.167	/	Pass
			1752.6	4.172	/	Pass
	HSUPA	Subtest 1	1712.4	4.181	/	Pass
			1732.6	4.167	/	Pass
			1752.6	4.169	/	Pass

3.1.2 Band IV_XDB

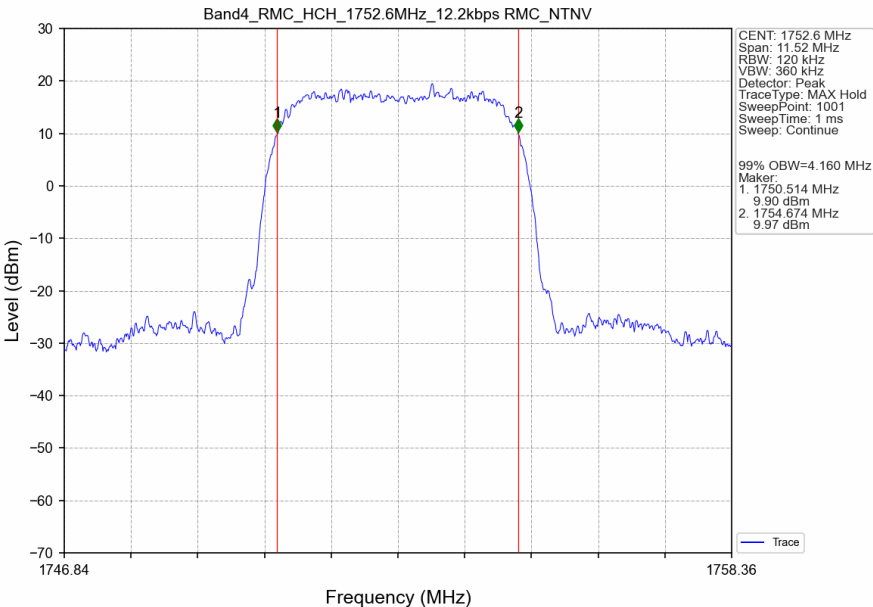
Band: IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.738	/	Pass
			1732.6	4.728	/	Pass
			1752.6	4.736	/	Pass
	HSDPA	Subtest 1	1712.4	4.742	/	Pass
			1732.6	4.733	/	Pass
			1752.6	4.743	/	Pass
	HSUPA	Subtest 1	1712.4	4.697	/	Pass
			1732.6	4.704	/	Pass
			1752.6	4.709	/	Pass

3.2 Test Graph

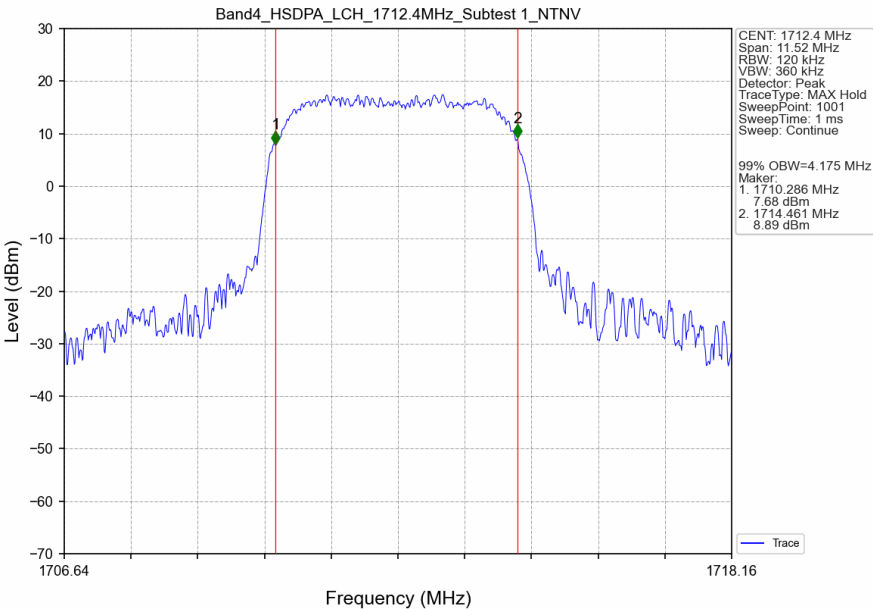
3.2.1 Band IV_OBW



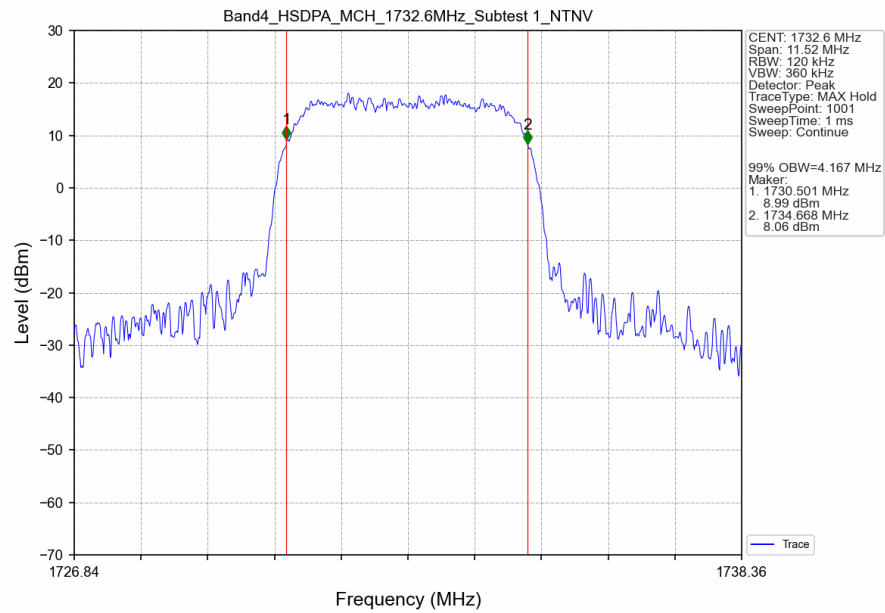
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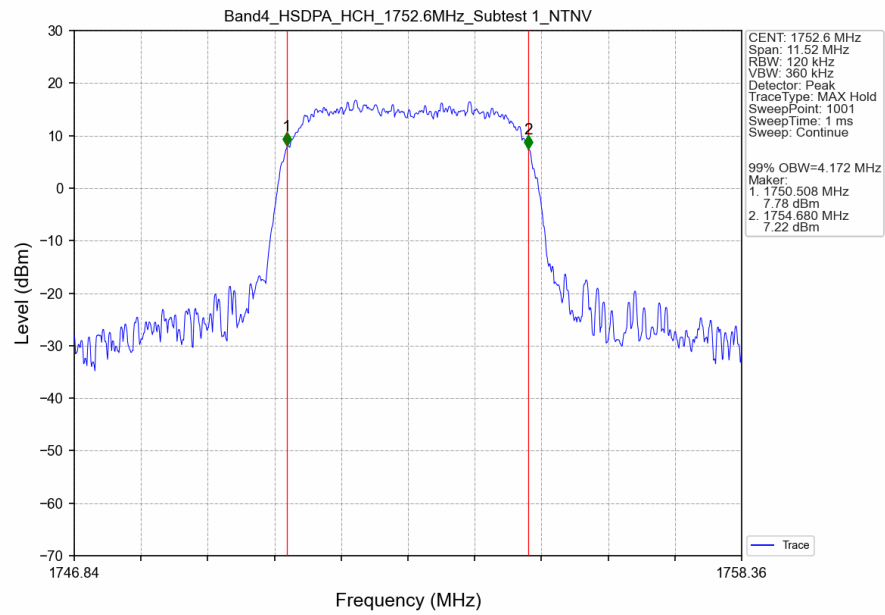
Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



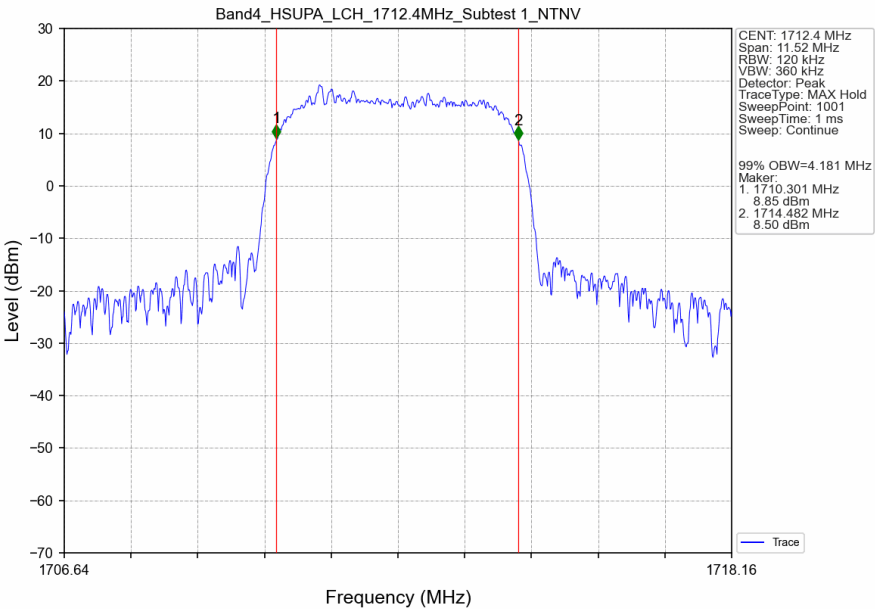
Band IV HSDPA MCH 1732.6MHz Subtest 1 NTNV



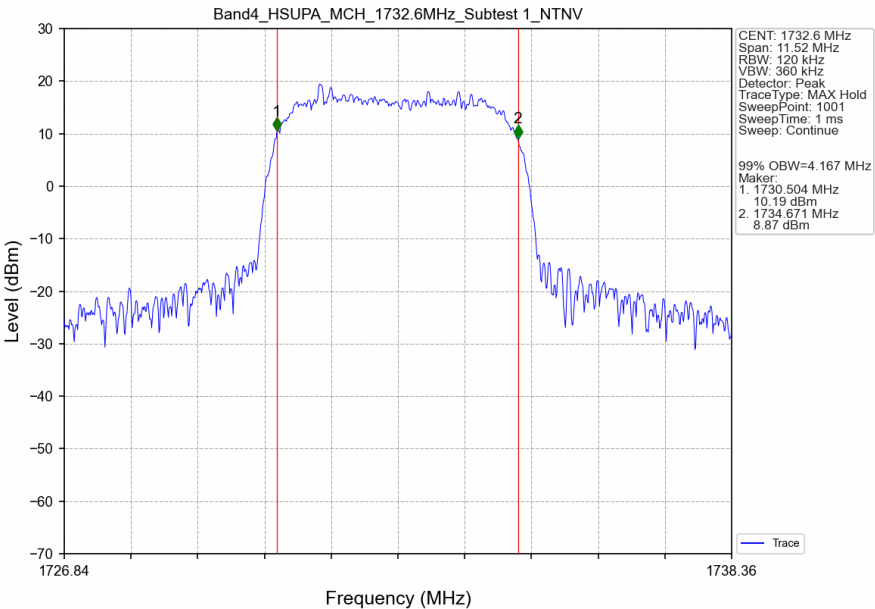
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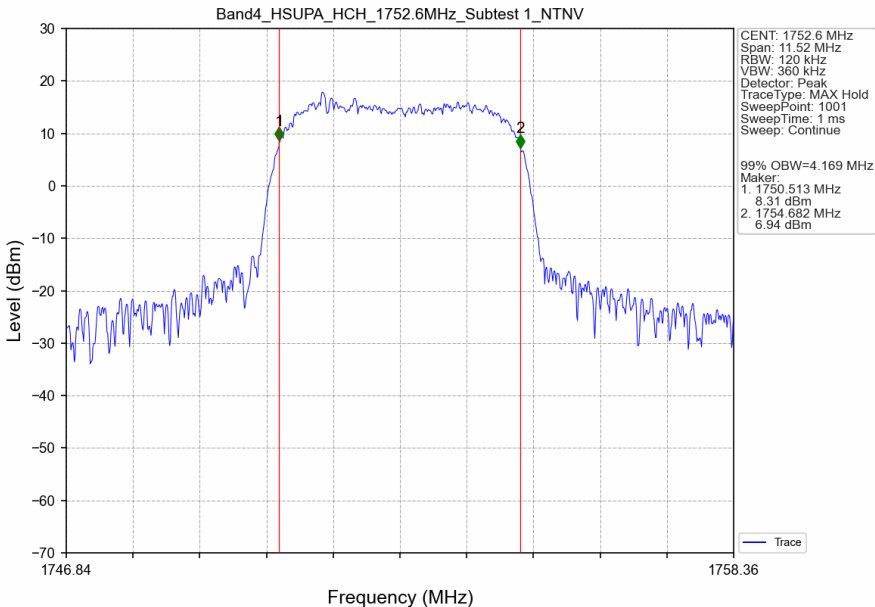
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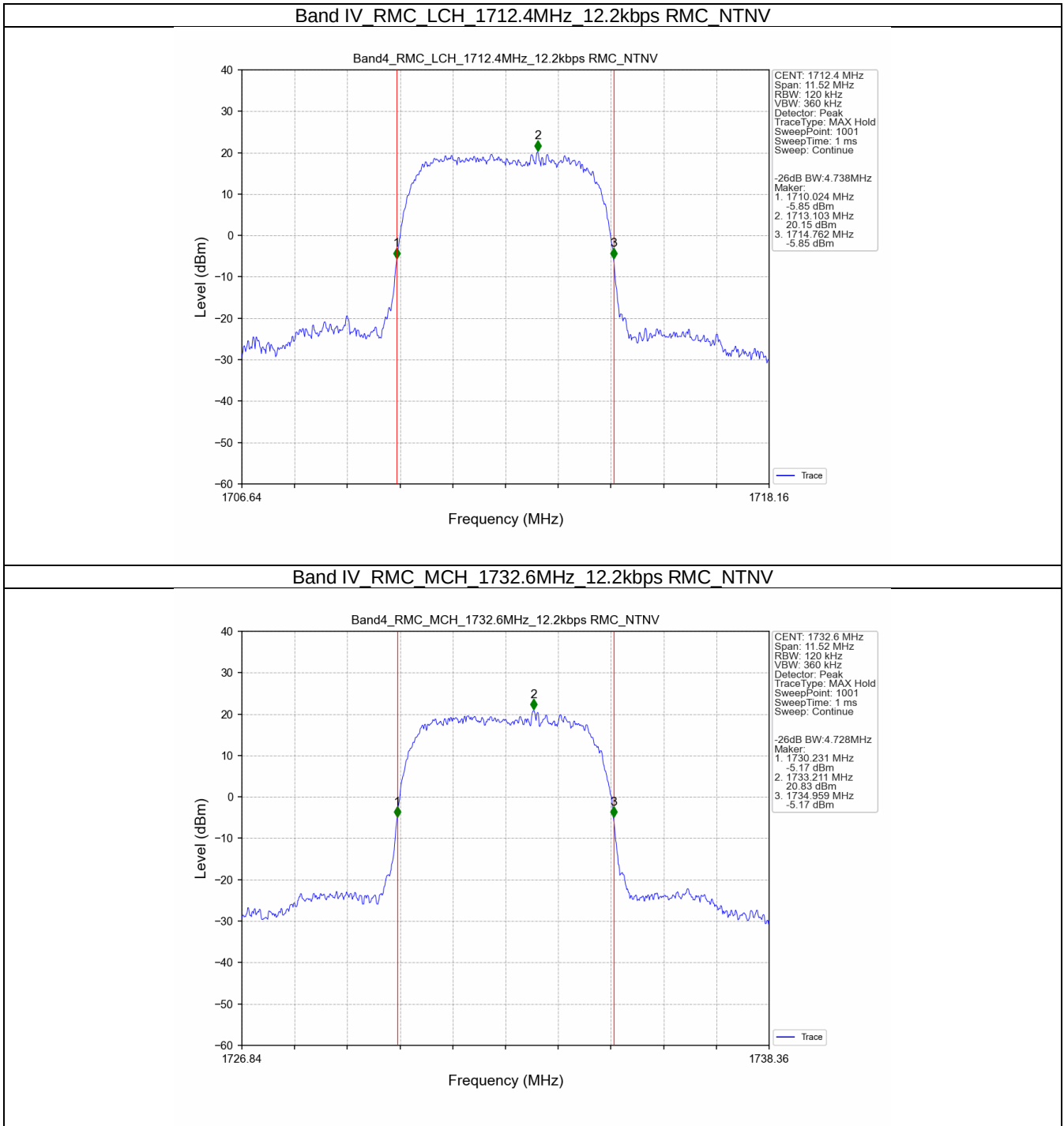
Band IV HSUPA MCH 1732.6MHz Subtest 1 NTN



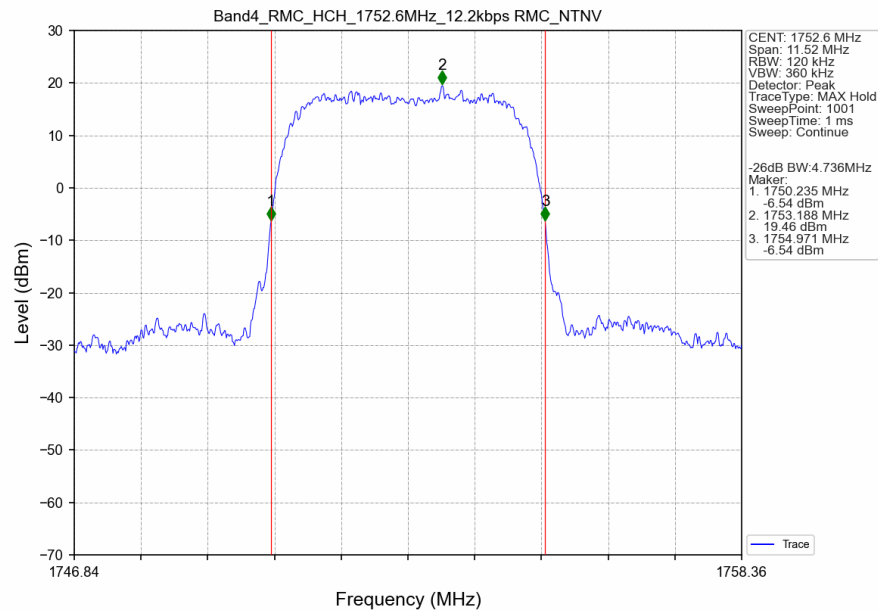
Band IV HSUPA HCH 1752.6MHz Subtest 1 NTN



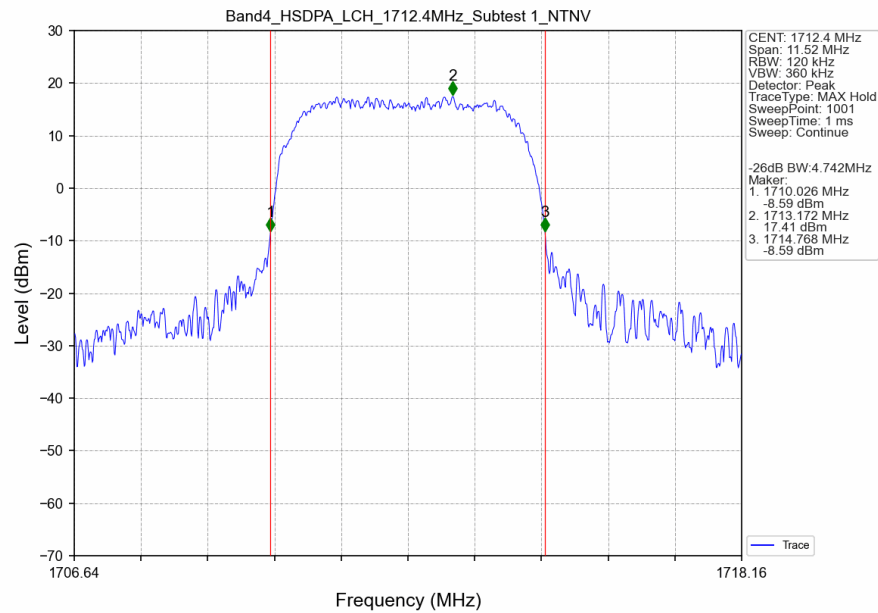
3.2.2 Band IV_XDB



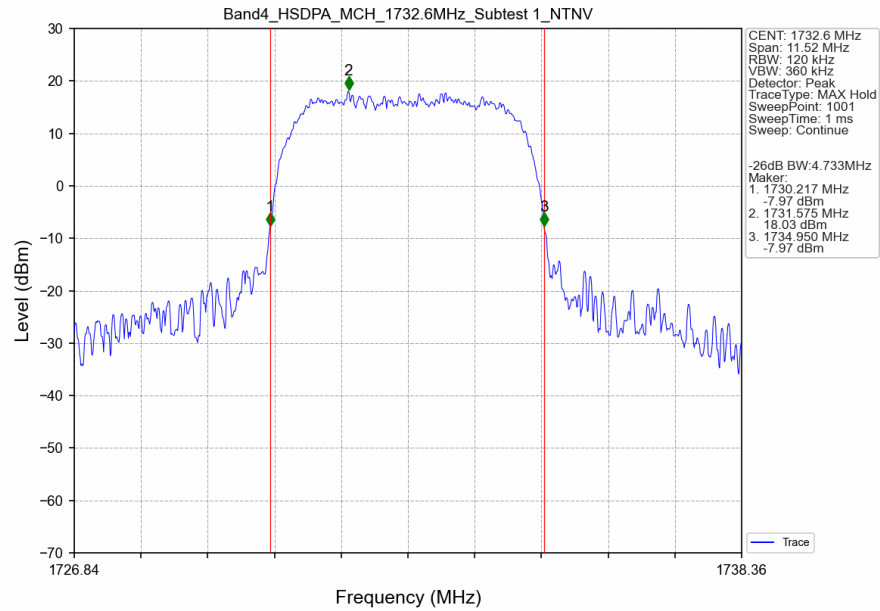
Band IV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



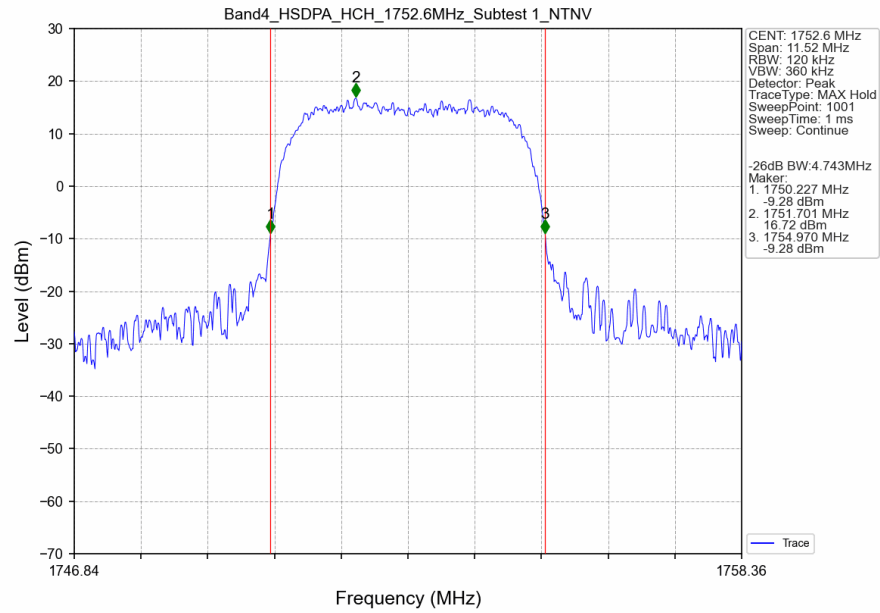
Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



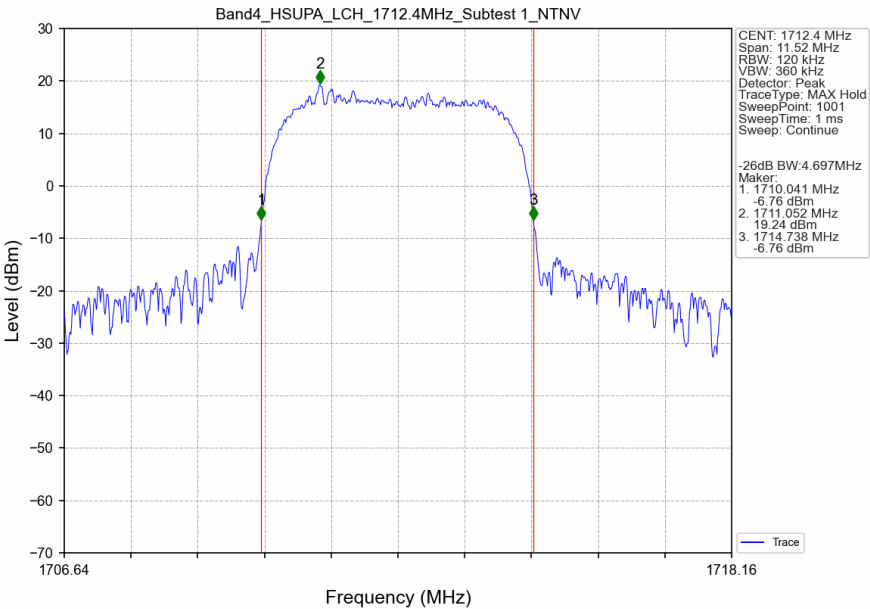
Band IV HSDPA MCH 1732.6MHz Subtest 1 NTN



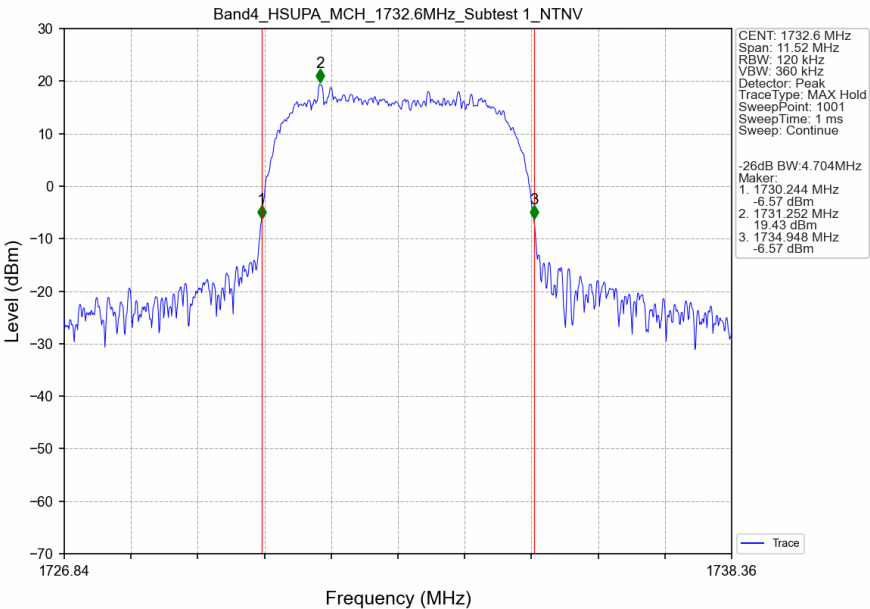
Band IV HSDPA HCH 1752.6MHz Subtest 1 NTN



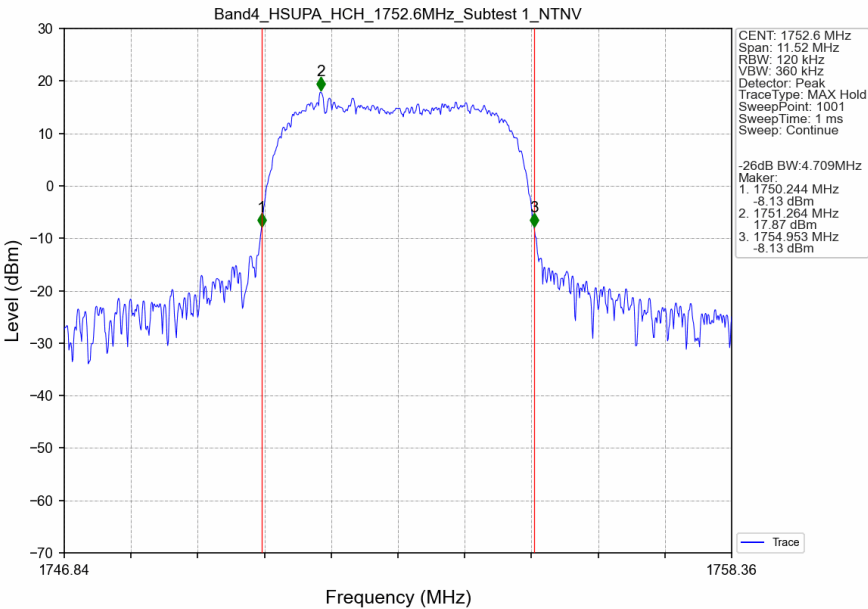
Band IV HSUPA LCH 1712.4MHz Subtest 1 NTN



Band IV HSUPA MCH 1732.6MHz Subtest 1 NTN



Band IV HSUPA HCH 1752.6MHz Subtest 1 NTN



4. Peak-Average Ratio

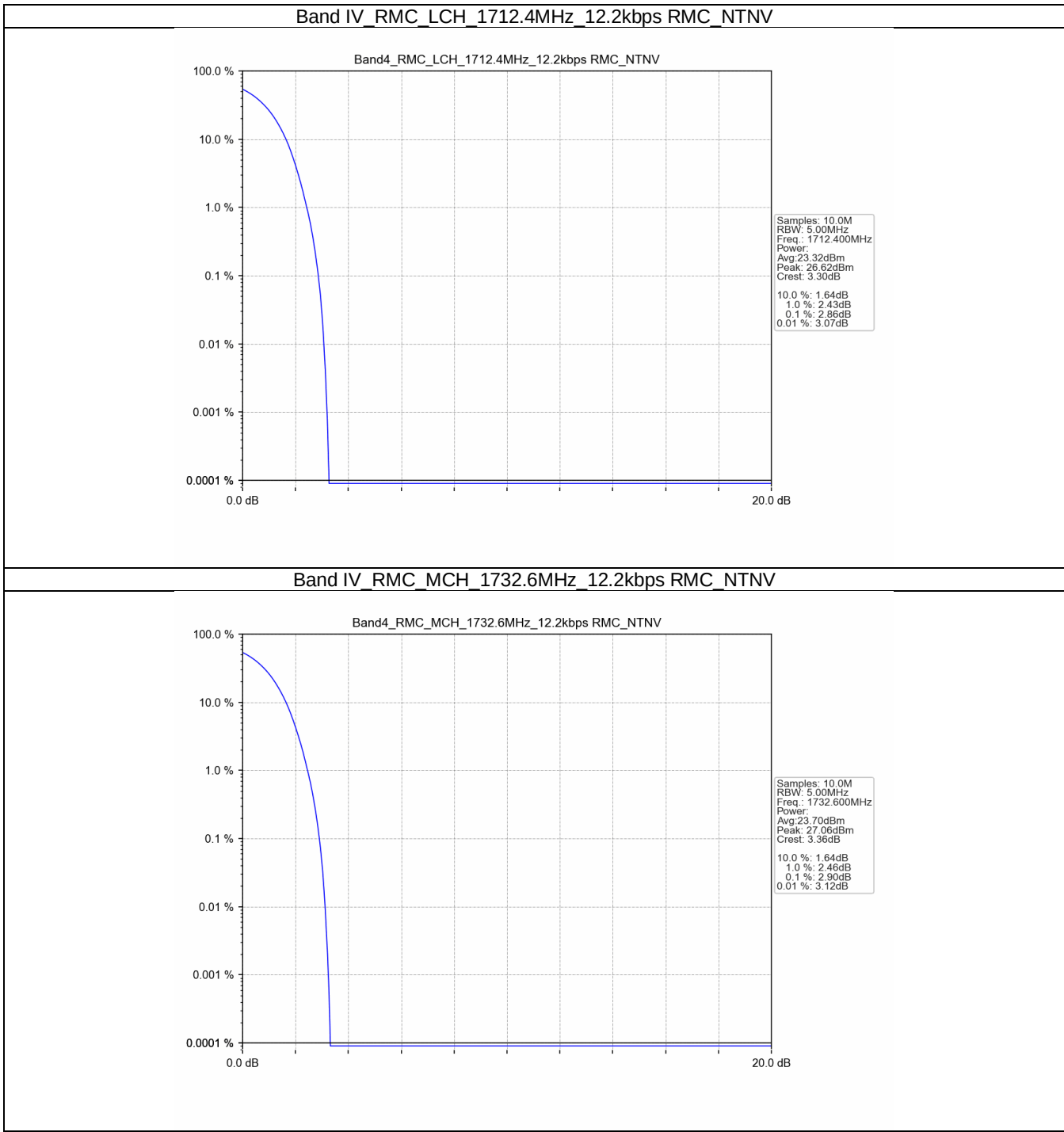
4.1 Test Result

4.1.1 Band IV

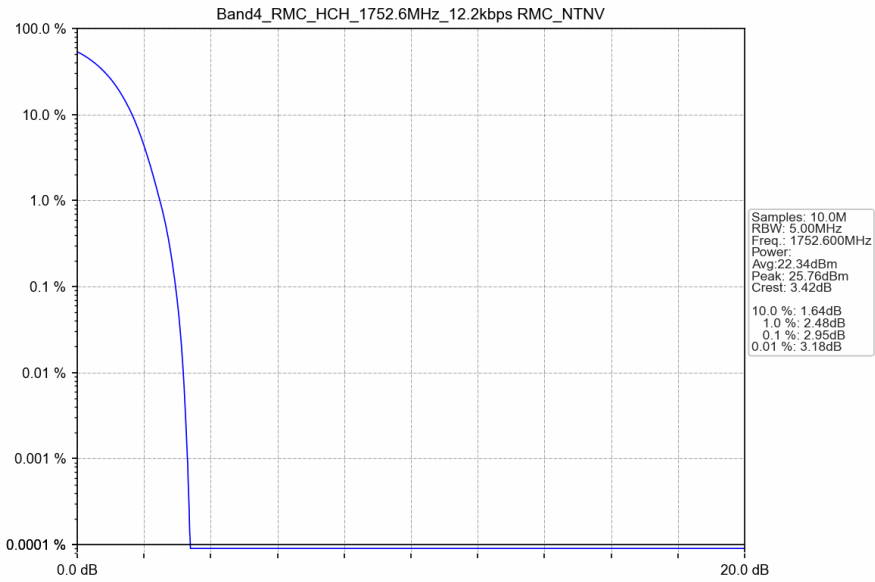
Band: IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.86	<=13	Pass
			1732.6	2.90	<=13	Pass
			1752.6	2.95	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.76	<=13	Pass
			1732.6	5.80	<=13	Pass
			1752.6	5.75	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.80	<=13	Pass
			1732.6	6.90	<=13	Pass
			1752.6	6.82	<=13	Pass

4.2 Test Graph

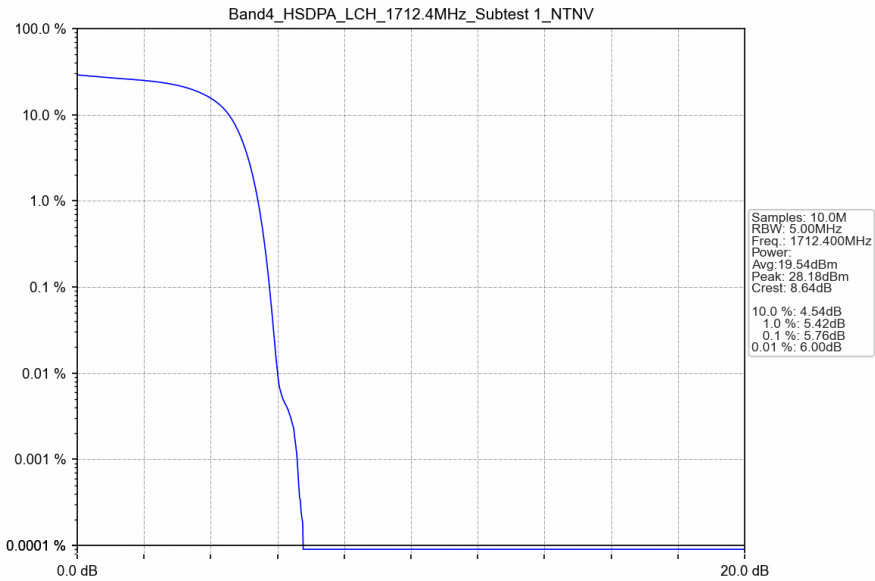
4.2.1 Band IV



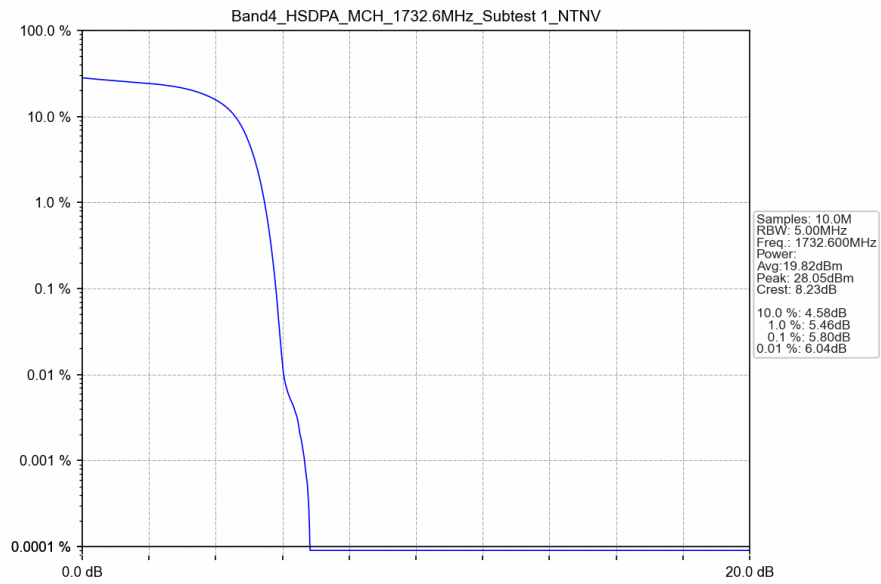
Band IV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



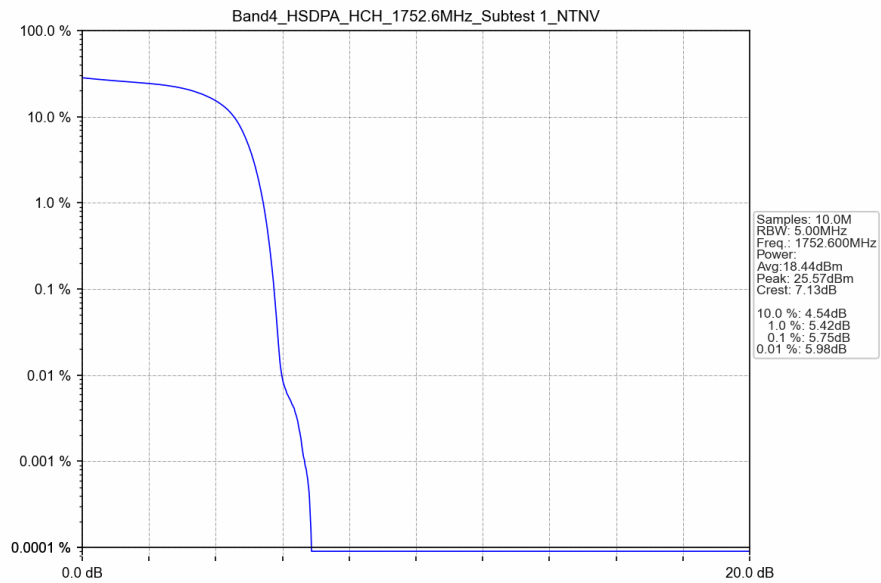
Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



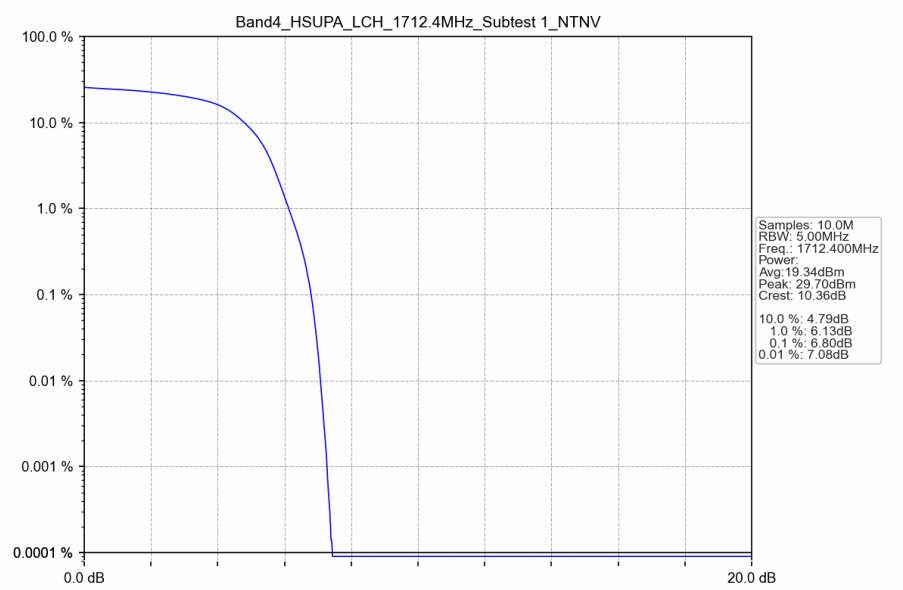
Band IV HSDPA MCH 1732.6MHz Subtest 1_NTNV



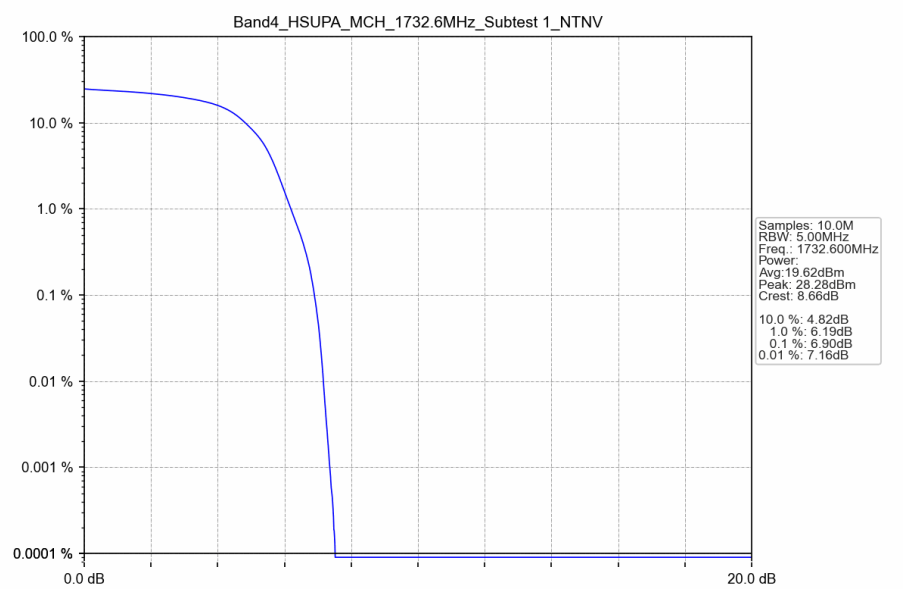
Band IV HSDPA HCH 1752.6MHz Subtest 1_NTNV



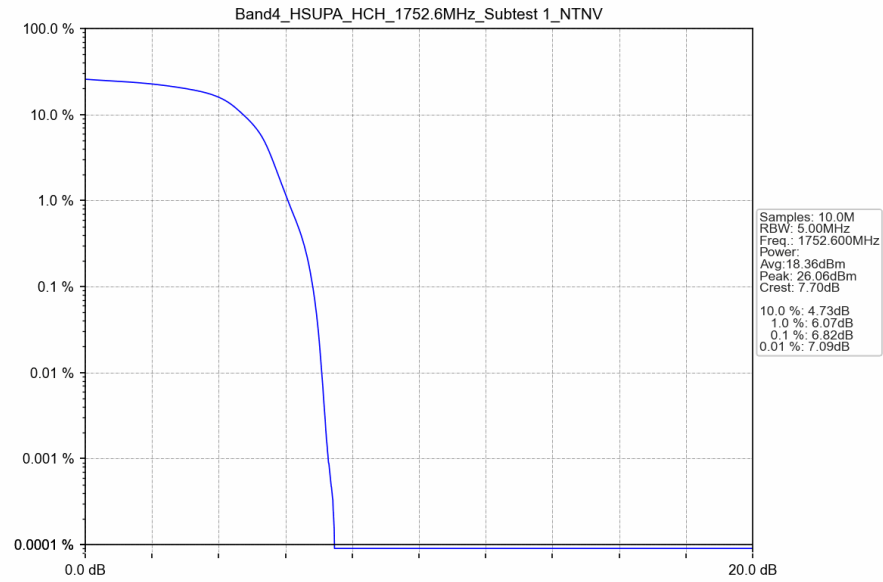
Band IV HSUPA LCH 1712.4MHz Subtest 1 NTNV



Band IV HSUPA MCH 1732.6MHz Subtest 1 NTNV



Band IV HSUPA HCH 1752.6MHz Subtest 1 NTN



5. Spurious Emission

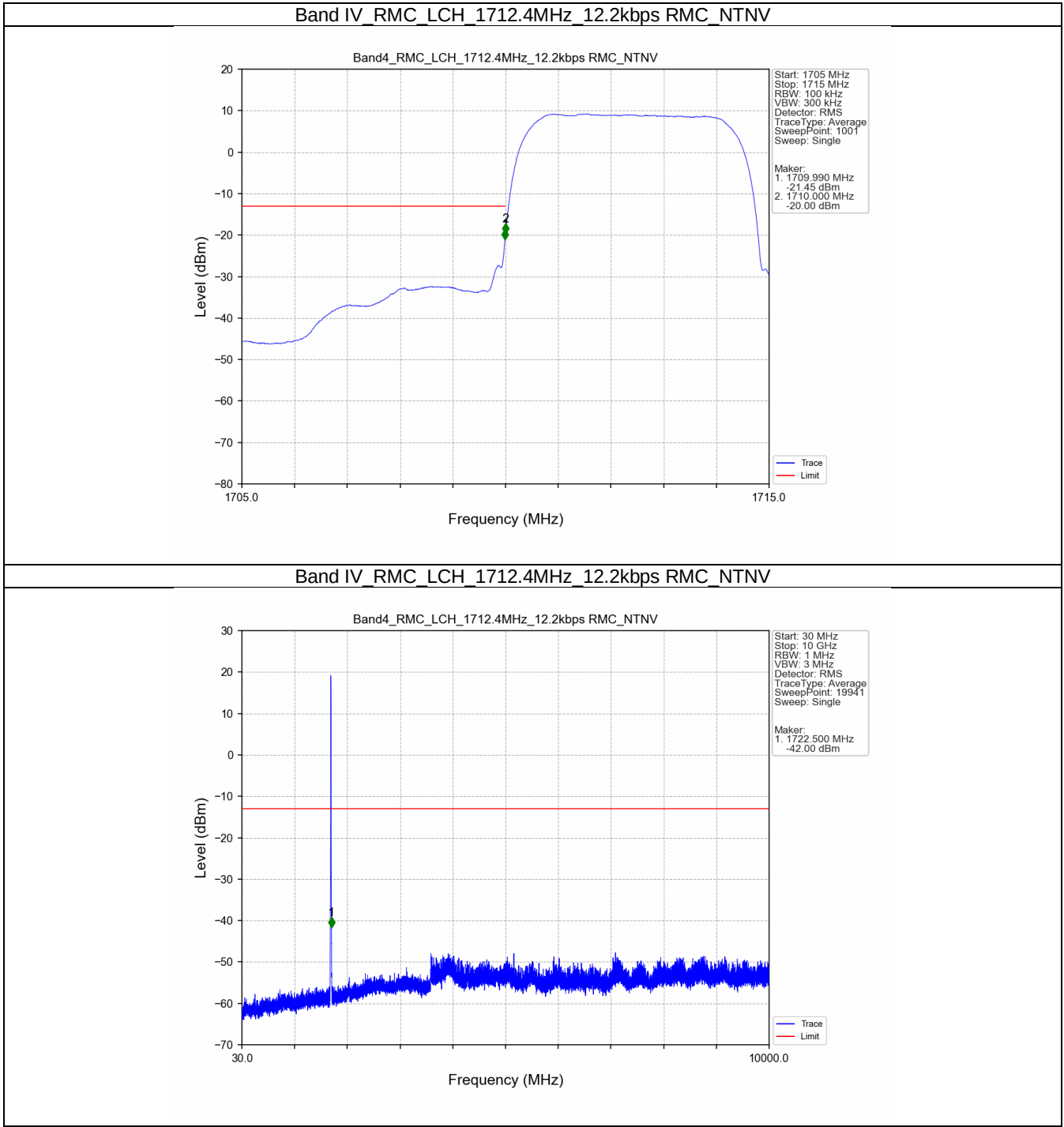
5.1 Test Result

5.1.1 Band IV

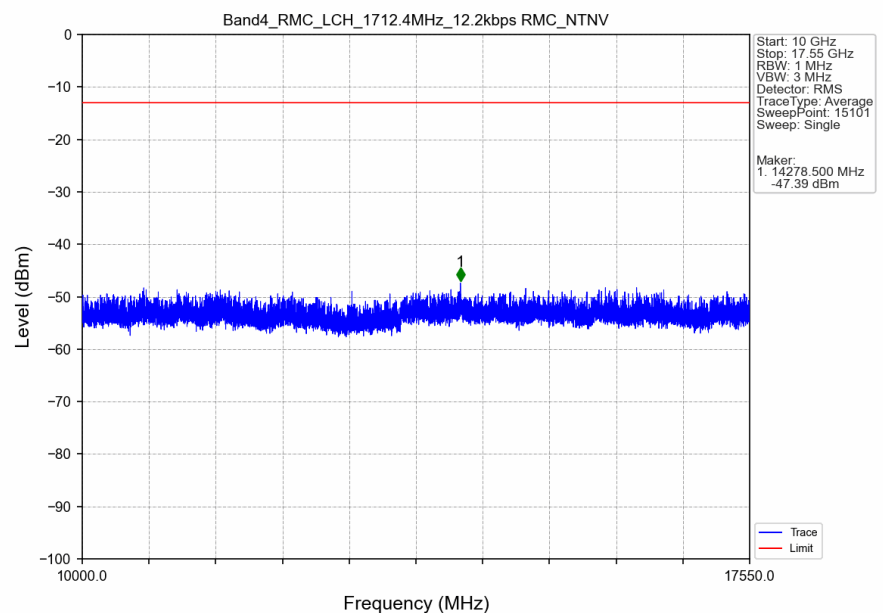
Band: IV						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph		Pass
			1732.6	Refer To Test Graph		Pass
			1752.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1712.4	Refer To Test Graph		Pass
			1732.6	Refer To Test Graph		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

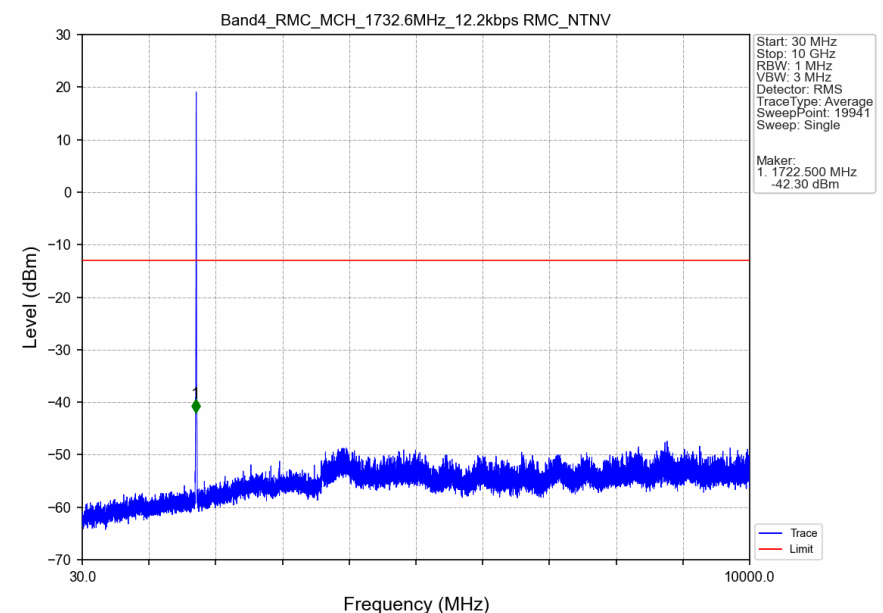
5.2.1 Band IV



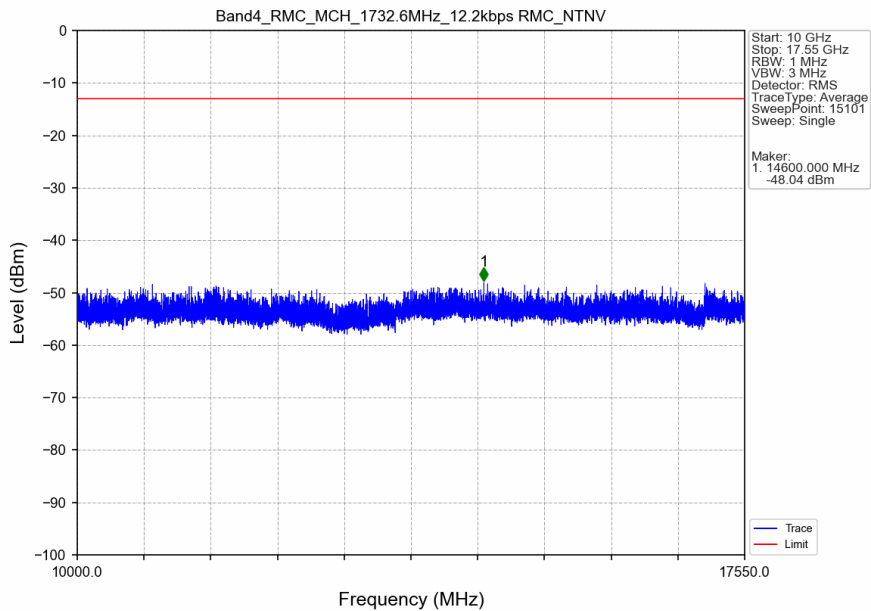
Band IV_RMC_LCH_1712.4MHz_12.2kbps_RMC_NTNV



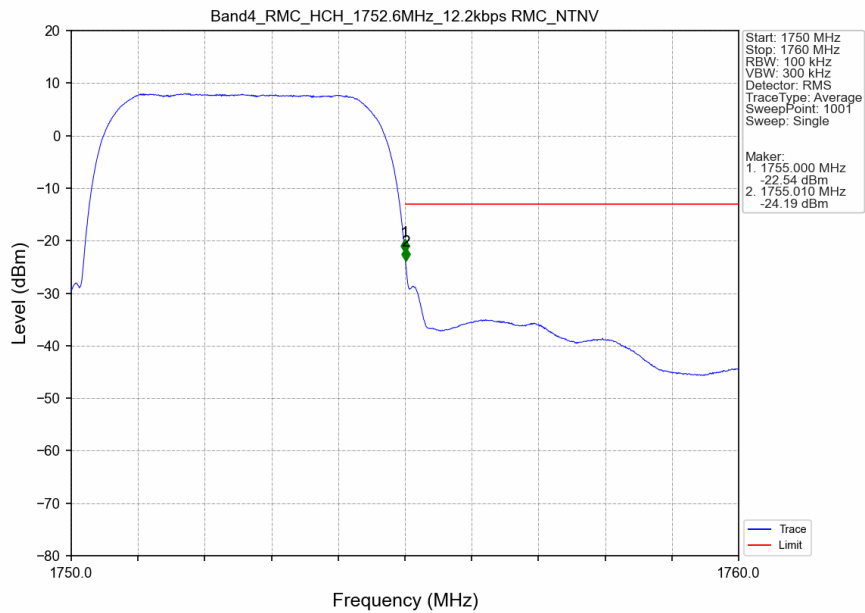
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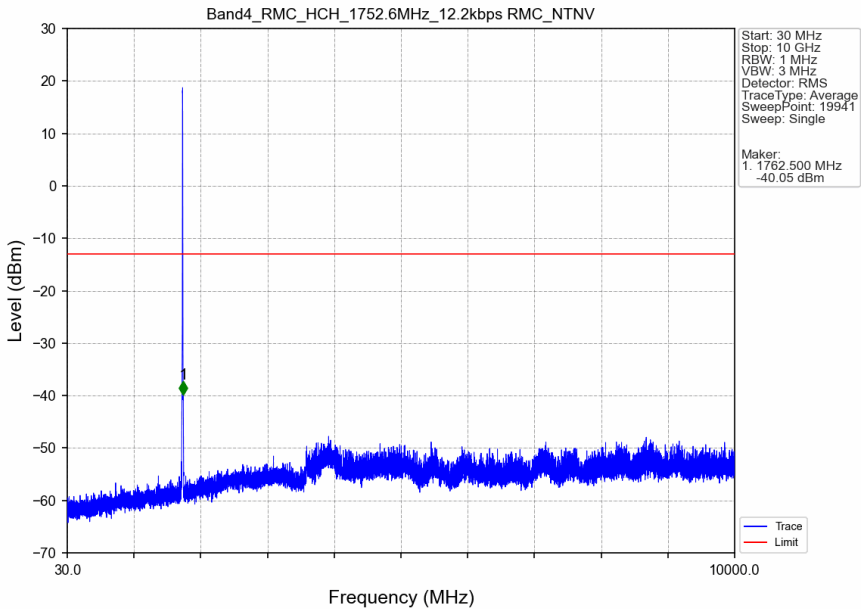
Band IV_RMC_MCH_1732.6MHz_12.2kbps_RMC_NTNV



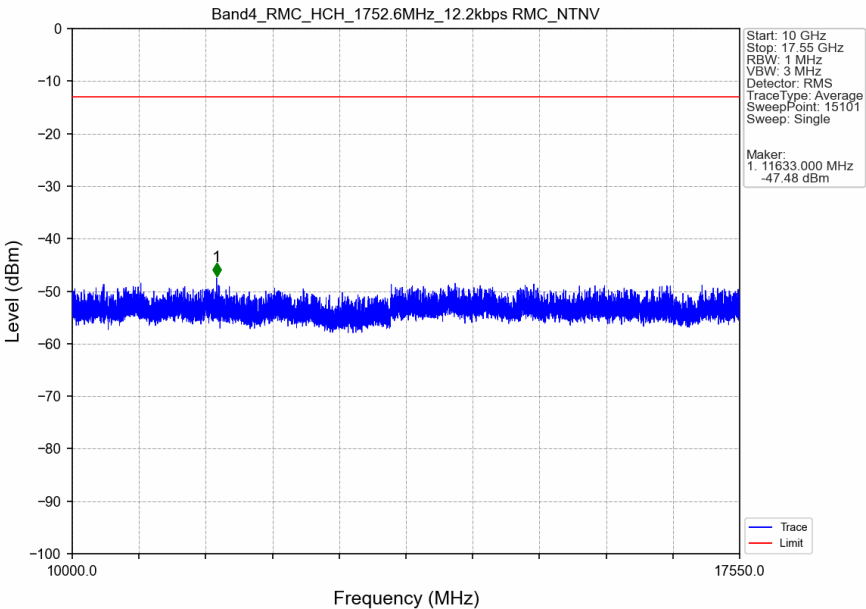
Band IV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



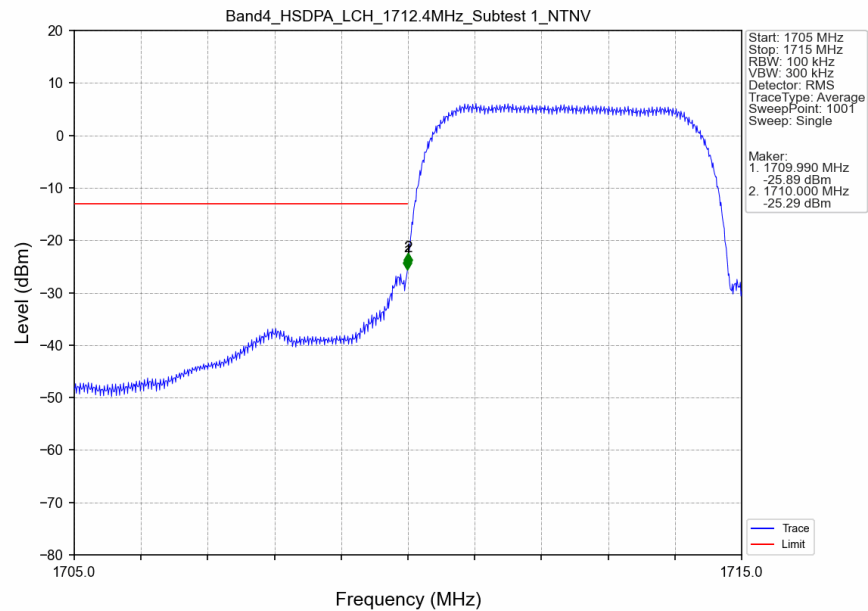
Band IV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



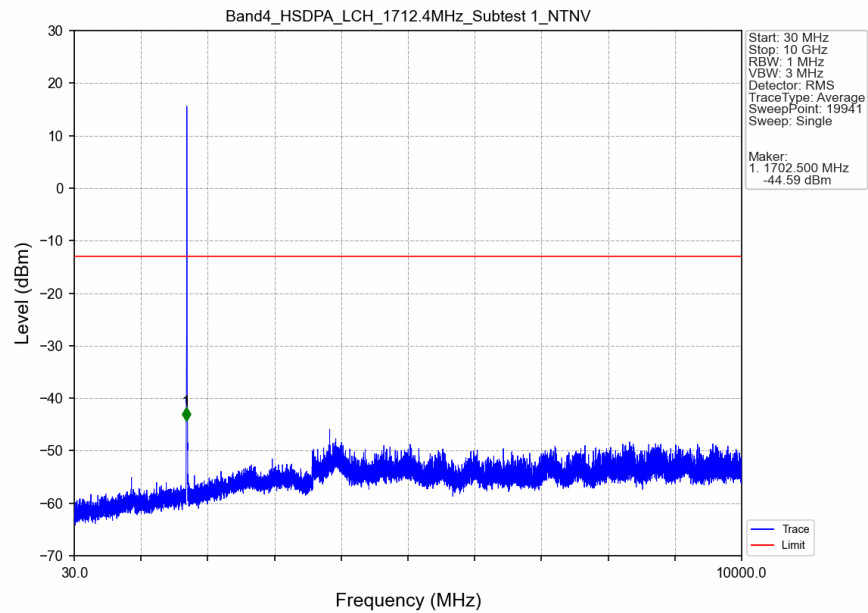
Band IV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



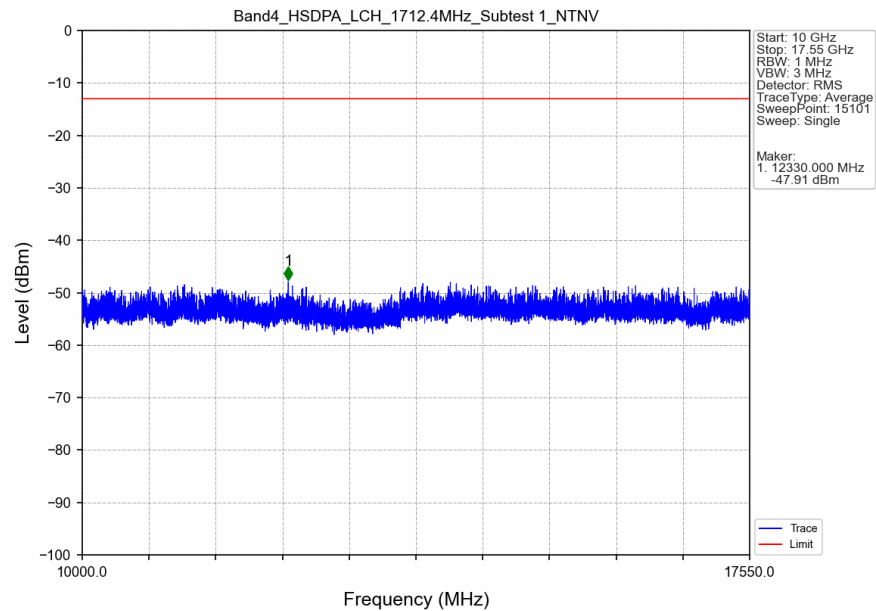
Band IV HSDPA LCH 1712.4MHz Subtest 1 NTNV



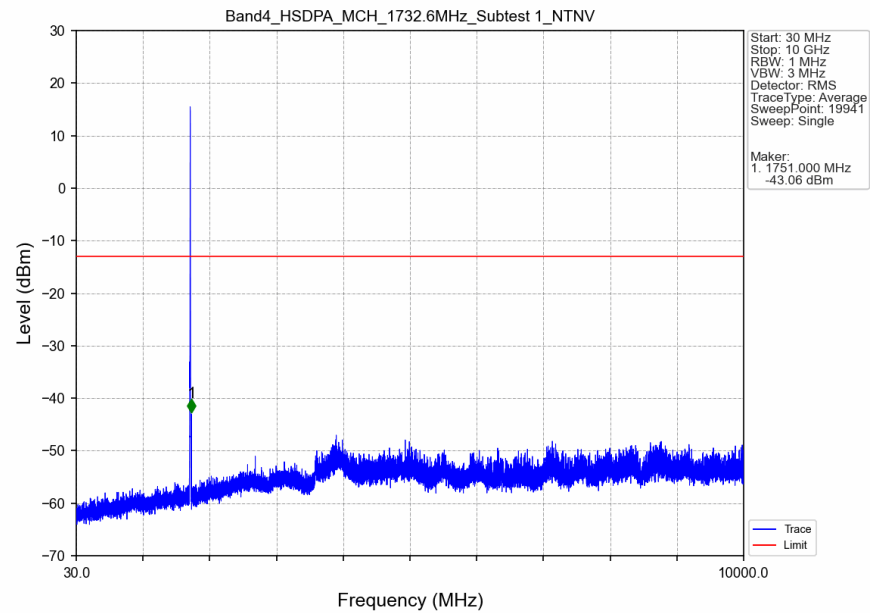
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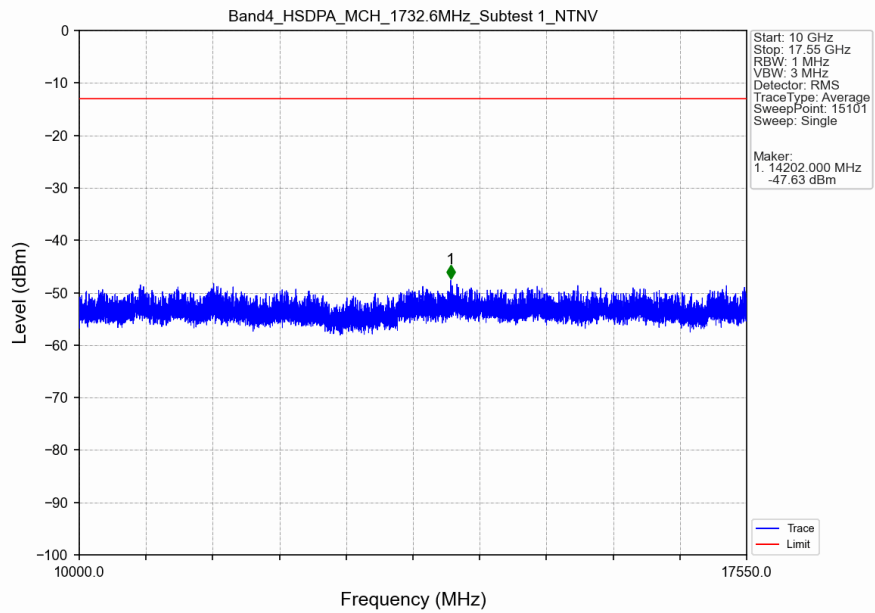
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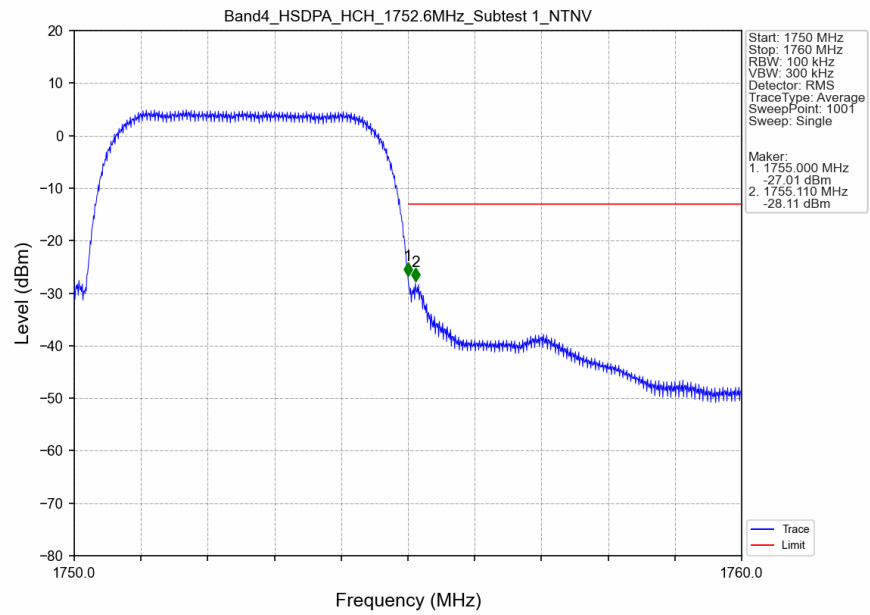
Band IV HSDPA MCH 1732.6MHz Subtest 1_NTNV



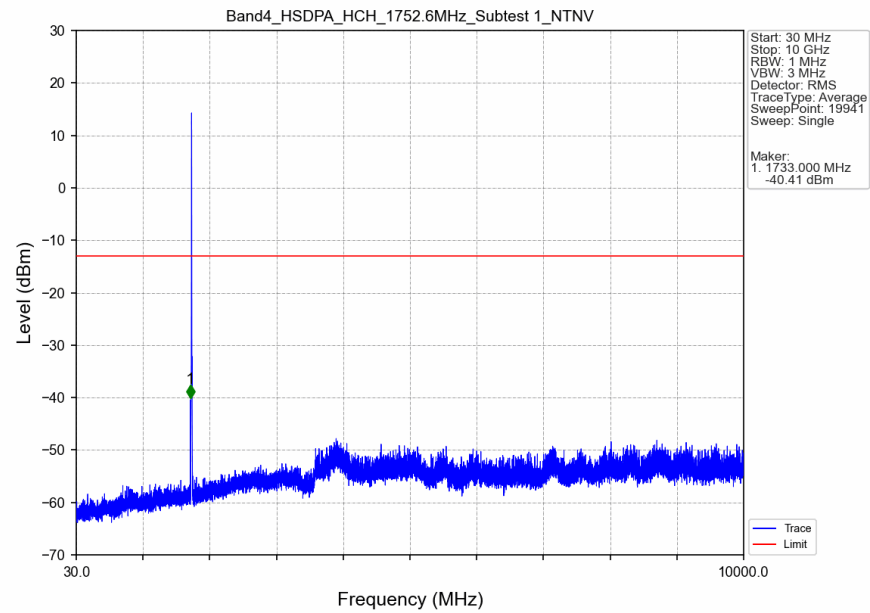
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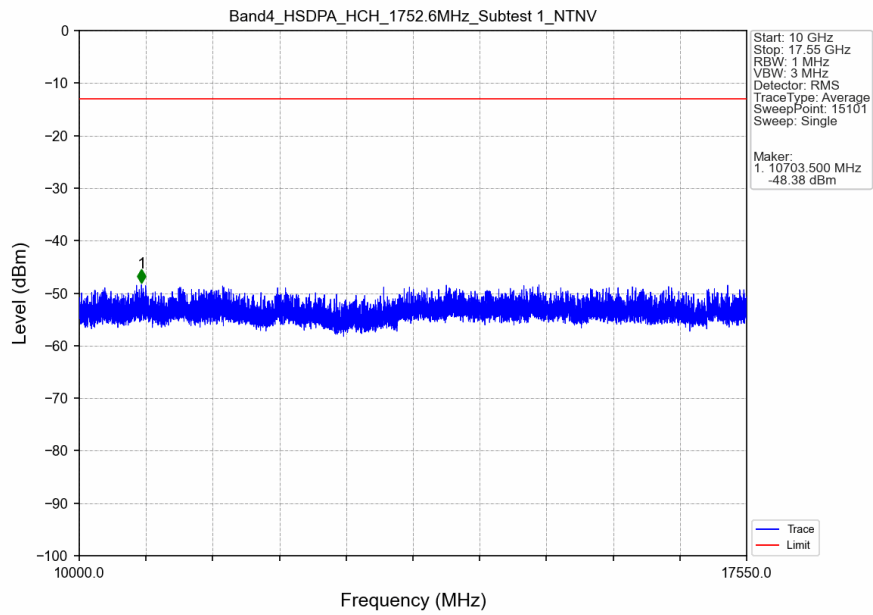
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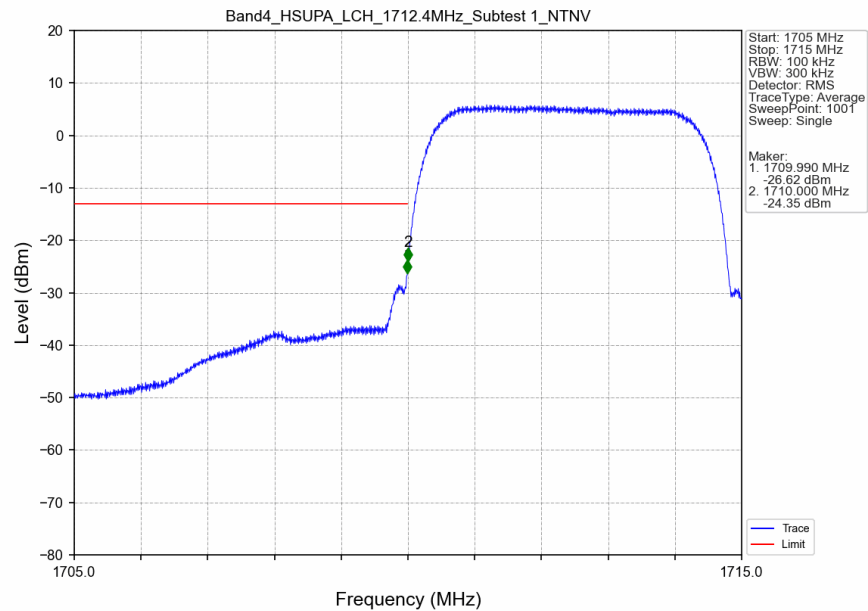
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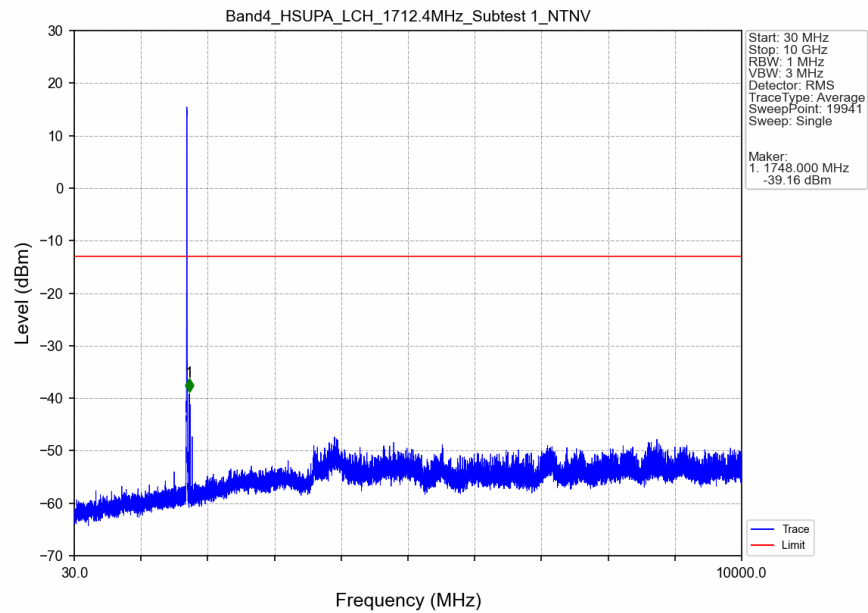
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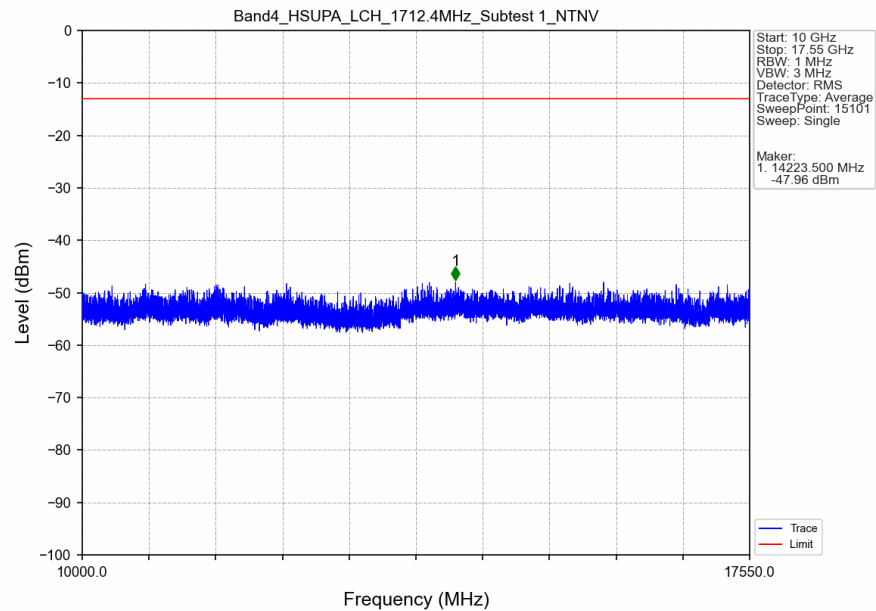
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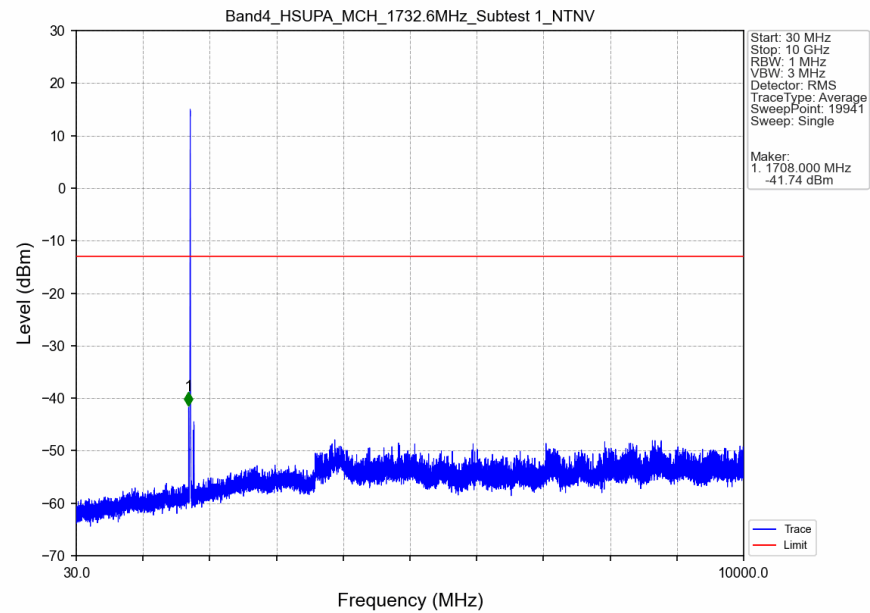
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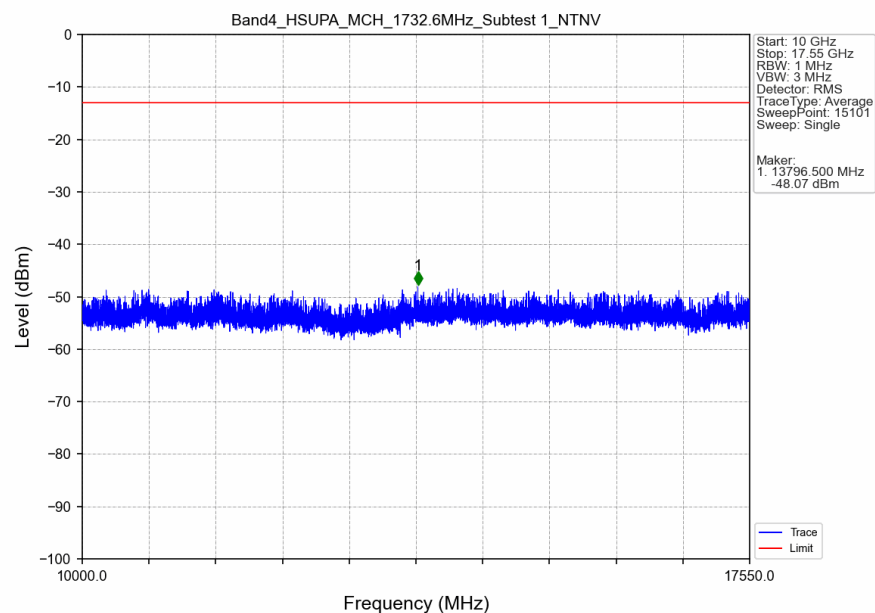
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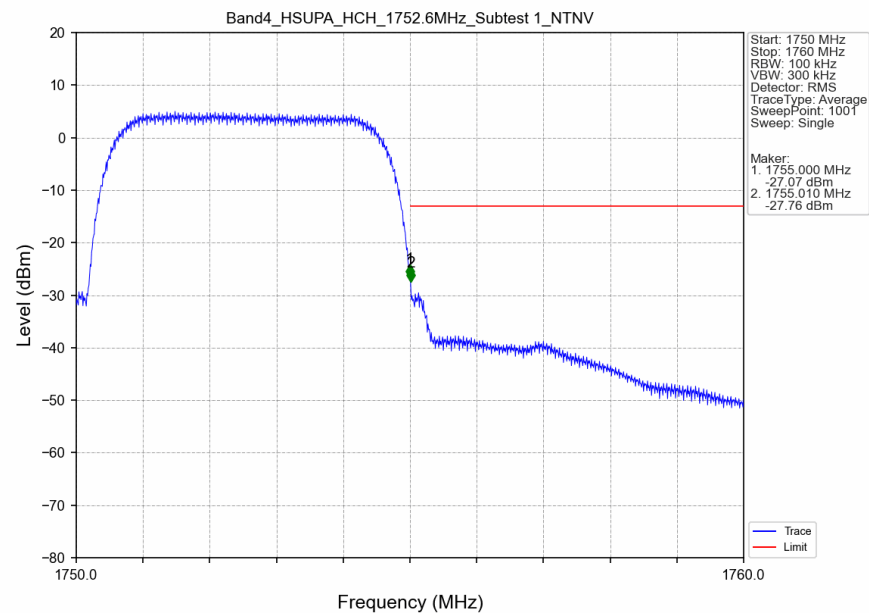
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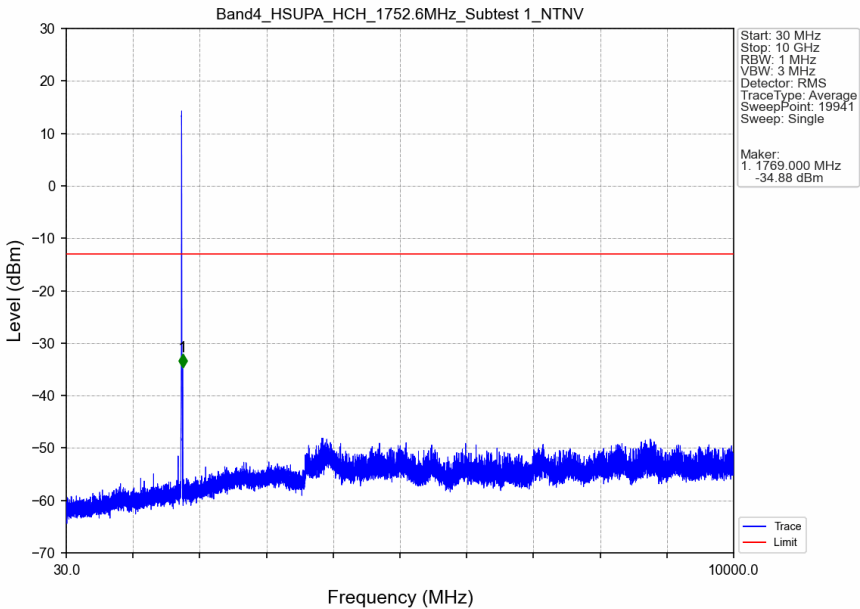
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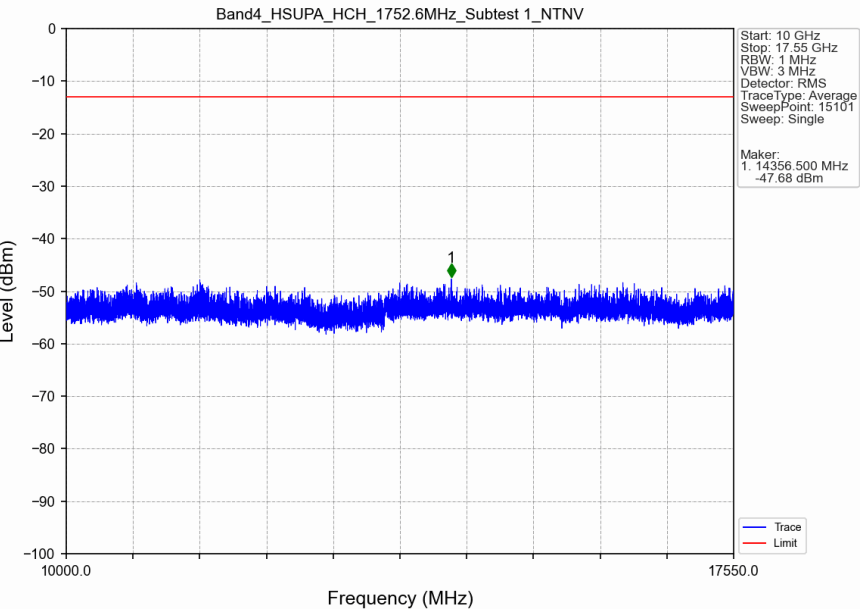
Band IV HSUPA HCH 1752.6MHz Subtest 1 NTN



Band IV HSUPA HCH 1752.6MHz Subtest 1 NTN



Band IV HSUPA HCH 1752.6MHz Subtest 1 NTN



6. Field Strength of Spurious Radiation

WCDMA Band IV-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3424.8	-57.82	-13	-44.82	-62.44	3.36	7.98	Horizontal	Pass
5137.2	-54.01	-13	-41.01	-59.63	4.61	10.23	Horizontal	Pass
6849.6	-54.91	-13	-41.91	-60.95	4.9	10.94	Horizontal	Pass
3424.8	-55.92	-13	-42.92	-60.54	3.36	7.98	Vertical	Pass
5137.2	-52.16	-13	-39.16	-57.78	4.61	10.23	Vertical	Pass
6849.6	-55.08	-13	-42.08	-61.12	4.9	10.94	Vertical	Pass

WCDMA Band IV-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3465.2	-56.36	-13	-43.36	-61.06	3.38	8.08	Horizontal	Pass
5197.8	-52.1	-13	-39.1	-57.73	4.63	10.26	Horizontal	Pass
6930.4	-54.57	-13	-41.57	-60.7	4.91	11.04	Horizontal	Pass
3465.2	-56.44	-13	-43.44	-61.14	3.38	8.08	Vertical	Pass
5197.8	-54.12	-13	-41.12	-59.75	4.63	10.26	Vertical	Pass
6930.4	-54.72	-13	-41.72	-60.85	4.91	11.04	Vertical	Pass

WCDMA Band IV-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3505.2	-56.59	-13	-43.59	-61.37	3.4	8.18	Horizontal	Pass
5257.8	-52.65	-13	-39.65	-58.3	4.65	10.3	Horizontal	Pass
7010.4	-54.02	-13	-41.02	-60.24	4.92	11.14	Horizontal	Pass
3505.2	-57.21	-13	-44.21	-61.99	3.4	8.18	Vertical	Pass
5257.8	-52.22	-13	-39.22	-57.87	4.65	10.3	Vertical	Pass
7010.4	-55.2	-13	-42.2	-61.42	4.92	11.14	Vertical	Pass