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	23.05	2.62	25.67	<=30	Pass
			1732.6	23.04	2.62	25.66	<=30	Pass
			1752.6	22.37	2.62	24.99	<=30	Pass
	HSDPA	Subtest 1	1712.4	22.07	2.62	24.69	<=30	Pass
		Subtest 2	1712.4	21.94	2.62	24.56	<=30	Pass
		Subtest 3	1712.4	21.95	2.62	24.57	<=30	Pass
		Subtest 4	1712.4	22.07	2.62	24.69	<=30	Pass
		Subtest 1	1732.6	22.29	2.62	24.91	<=30	Pass
		Subtest 2	1732.6	22.29	2.62	24.91	<=30	Pass
		Subtest 3	1732.6	22.30	2.62	24.92	<=30	Pass
		Subtest 4	1732.6	22.28	2.62	24.90	<=30	Pass
		Subtest 1	1752.6	21.58	2.62	24.20	<=30	Pass
		Subtest 2	1752.6	21.58	2.62	24.20	<=30	Pass
		Subtest 3	1752.6	21.58	2.62	24.20	<=30	Pass
		Subtest 4	1752.6	21.56	2.62	24.18	<=30	Pass
	HSUPA	Subtest 1	1712.4	19.41	2.62	22.03	<=30	Pass
		Subtest 2	1712.4	19.37	2.62	21.99	<=30	Pass
		Subtest 3	1712.4	19.60	2.62	22.22	<=30	Pass
		Subtest 4	1712.4	19.86	2.62	22.48	<=30	Pass
		Subtest 5	1712.4	19.58	2.62	22.20	<=30	Pass
		Subtest 1	1732.6	19.69	2.62	22.31	<=30	Pass
		Subtest 2	1732.6	19.87	2.62	22.49	<=30	Pass
		Subtest 3	1732.6	20.15	2.62	22.77	<=30	Pass
		Subtest 4	1732.6	20.14	2.62	22.76	<=30	Pass
		Subtest 5	1732.6	20.14	2.62	22.76	<=30	Pass
		Subtest 1	1752.6	19.04	2.62	21.66	<=30	Pass
		Subtest 2	1752.6	19.21	2.62	21.83	<=30	Pass
		Subtest 3	1752.6	19.49	2.62	22.11	<=30	Pass
		Subtest 4	1752.6	19.03	2.62	21.65	<=30	Pass
		Subtest 5	1752.6	19.03	2.62	21.65	<=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	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	LV	4.263	0.0025	-2.5 to 2.5	Pass
			NV	-1.345	-0.0008	-2.5 to 2.5	Pass
			HV	-3.490	-0.0020	-2.5 to 2.5	Pass
		-30	NV	1.101	0.0006	-2.5 to 2.5	Pass
		-20	NV	4.706	0.0027	-2.5 to 2.5	Pass
		-10	NV	-4.234	-0.0025	-2.5 to 2.5	Pass
		0	NV	-0.844	-0.0005	-2.5 to 2.5	Pass
		10	NV	3.891	0.0023	-2.5 to 2.5	Pass
		30	NV	-4.134	-0.0024	-2.5 to 2.5	Pass
		40	NV	-0.436	-0.0003	-2.5 to 2.5	Pass
		50	NV	-2.761	-0.0016	-2.5 to 2.5	Pass
	1732.6	20	LV	4.914	0.0028	-2.5 to 2.5	Pass
			NV	-3.784	-0.0022	-2.5 to 2.5	Pass
			HV	-0.014	0.0000	-2.5 to 2.5	Pass
		-30	NV	-1.173	-0.0007	-2.5 to 2.5	Pass
		-20	NV	0.286	0.0002	-2.5 to 2.5	Pass
		-10	NV	0.701	0.0004	-2.5 to 2.5	Pass
		0	NV	2.739	0.0016	-2.5 to 2.5	Pass
		10	NV	6.316	0.0036	-2.5 to 2.5	Pass
		30	NV	-3.526	-0.0020	-2.5 to 2.5	Pass
		40	NV	-5.193	-0.0030	-2.5 to 2.5	Pass
		50	NV	-2.904	-0.0017	-2.5 to 2.5	Pass
	1752.6	20	LV	7.360	0.0042	-2.5 to 2.5	Pass
			NV	9.592	0.0055	-2.5 to 2.5	Pass
			HV	2.139	0.0012	-2.5 to 2.5	Pass
		-30	NV	0.215	0.0001	-2.5 to 2.5	Pass
		-20	NV	0.172	0.0001	-2.5 to 2.5	Pass
		-10	NV	3.433	0.0020	-2.5 to 2.5	Pass
		0	NV	4.606	0.0026	-2.5 to 2.5	Pass
		10	NV	4.363	0.0025	-2.5 to 2.5	Pass
		30	NV	4.706	0.0027	-2.5 to 2.5	Pass
		40	NV	2.782	0.0016	-2.5 to 2.5	Pass
		50	NV	-2.053	-0.0012	-2.5 to 2.5	Pass
HSDPA	1712.4	20	LV	3.083	0.0018	-2.5 to 2.5	Pass
			NV	1.309	0.0008	-2.5 to 2.5	Pass
			HV	6.030	0.0035	-2.5 to 2.5	Pass
		-30	NV	13.883	0.0081	-2.5 to 2.5	Pass
		-20	NV	12.231	0.0071	-2.5 to 2.5	Pass
		-10	NV	16.387	0.0096	-2.5 to 2.5	Pass
		0	NV	15.972	0.0093	-2.5 to 2.5	Pass
		10	NV	15.614	0.0091	-2.5 to 2.5	Pass
		30	NV	16.551	0.0097	-2.5 to 2.5	Pass
		40	NV	17.545	0.0102	-2.5 to 2.5	Pass
		50	NV	19.426	0.0113	-2.5 to 2.5	Pass
	1732.6	20	LV	5.078	0.0029	-2.5 to 2.5	Pass
			NV	5.515	0.0032	-2.5 to 2.5	Pass

			HV	4.234	0.0024	-2.5 to 2.5	Pass
		-30	NV	5.064	0.0029	-2.5 to 2.5	Pass
		-20	NV	5.536	0.0032	-2.5 to 2.5	Pass
		-10	NV	5.958	0.0034	-2.5 to 2.5	Pass
		0	NV	4.513	0.0026	-2.5 to 2.5	Pass
		10	NV	5.722	0.0033	-2.5 to 2.5	Pass
		30	NV	3.355	0.0019	-2.5 to 2.5	Pass
		40	NV	5.844	0.0034	-2.5 to 2.5	Pass
		50	NV	6.015	0.0035	-2.5 to 2.5	Pass
	1752.6	20	LV	13.783	0.0079	-2.5 to 2.5	Pass
			NV	12.860	0.0073	-2.5 to 2.5	Pass
			HV	12.302	0.0070	-2.5 to 2.5	Pass
		-30	NV	11.880	0.0068	-2.5 to 2.5	Pass
		-20	NV	12.932	0.0074	-2.5 to 2.5	Pass
		-10	NV	13.633	0.0078	-2.5 to 2.5	Pass
		0	NV	12.774	0.0073	-2.5 to 2.5	Pass
		10	NV	10.936	0.0062	-2.5 to 2.5	Pass
		30	NV	11.966	0.0068	-2.5 to 2.5	Pass
		40	NV	13.032	0.0074	-2.5 to 2.5	Pass
		50	NV	13.382	0.0076	-2.5 to 2.5	Pass
HSUPA	1712.4	20	LV	-2.553	-0.0015	-2.5 to 2.5	Pass
			NV	1.802	0.0011	-2.5 to 2.5	Pass
			HV	-0.393	-0.0002	-2.5 to 2.5	Pass
		-30	NV	-1.473	-0.0009	-2.5 to 2.5	Pass
		-20	NV	2.604	0.0015	-2.5 to 2.5	Pass
		-10	NV	-5.150	-0.0030	-2.5 to 2.5	Pass
		0	NV	-7.582	-0.0044	-2.5 to 2.5	Pass
		10	NV	-5.515	-0.0032	-2.5 to 2.5	Pass
		30	NV	-4.363	-0.0025	-2.5 to 2.5	Pass
		40	NV	-2.310	-0.0013	-2.5 to 2.5	Pass
		50	NV	-2.997	-0.0018	-2.5 to 2.5	Pass
	1732.6	20	LV	-2.739	-0.0016	-2.5 to 2.5	Pass
			NV	2.439	0.0014	-2.5 to 2.5	Pass
			HV	1.824	0.0011	-2.5 to 2.5	Pass
		-30	NV	2.017	0.0012	-2.5 to 2.5	Pass
		-20	NV	1.259	0.0007	-2.5 to 2.5	Pass
		-10	NV	1.388	0.0008	-2.5 to 2.5	Pass
		0	NV	1.087	0.0006	-2.5 to 2.5	Pass
		10	NV	-1.123	-0.0006	-2.5 to 2.5	Pass
		30	NV	3.927	0.0023	-2.5 to 2.5	Pass
		40	NV	4.478	0.0026	-2.5 to 2.5	Pass
		50	NV	2.089	0.0012	-2.5 to 2.5	Pass
	1752.6	20	LV	1.101	0.0006	-2.5 to 2.5	Pass
			NV	0.587	0.0003	-2.5 to 2.5	Pass
			HV	1.609	0.0009	-2.5 to 2.5	Pass
		-30	NV	4.113	0.0023	-2.5 to 2.5	Pass
		-20	NV	3.397	0.0019	-2.5 to 2.5	Pass
		-10	NV	2.303	0.0013	-2.5 to 2.5	Pass
		0	NV	2.804	0.0016	-2.5 to 2.5	Pass
		10	NV	3.333	0.0019	-2.5 to 2.5	Pass
		30	NV	4.220	0.0024	-2.5 to 2.5	Pass
		40	NV	6.330	0.0036	-2.5 to 2.5	Pass
		50	NV	6.201	0.0035	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

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	4.163	/	Pass
			1732.6	4.161	/	Pass
			1752.6	4.167	/	Pass
	HSDPA	Subtest 1	1712.4	4.166	/	Pass
			1732.6	4.171	/	Pass
			1752.6	4.168	/	Pass
	HSUPA	Subtest 1	1712.4	4.170	/	Pass
			1732.6	4.187	/	Pass
			1752.6	4.169	/	Pass

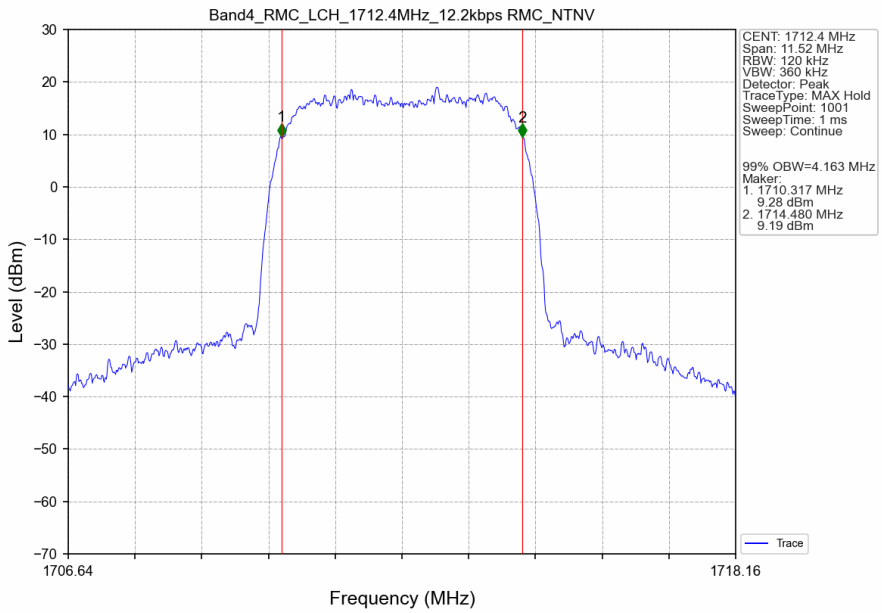
3.1.2 Band4_XDB

Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.713	/	Pass
			1732.6	4.711	/	Pass
			1752.6	4.715	/	Pass
	HSDPA	Subtest 1	1712.4	4.807	/	Pass
			1732.6	4.730	/	Pass
			1752.6	4.796	/	Pass
	HSUPA	Subtest 1	1712.4	4.691	/	Pass
			1732.6	4.717	/	Pass
			1752.6	4.685	/	Pass

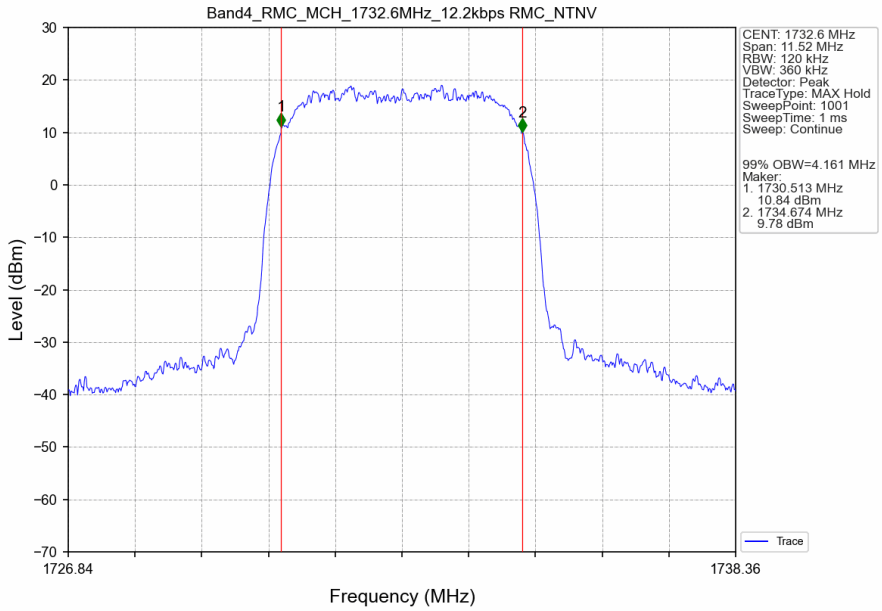
3.2 Test Graph

3.2.1 Band4_OBW

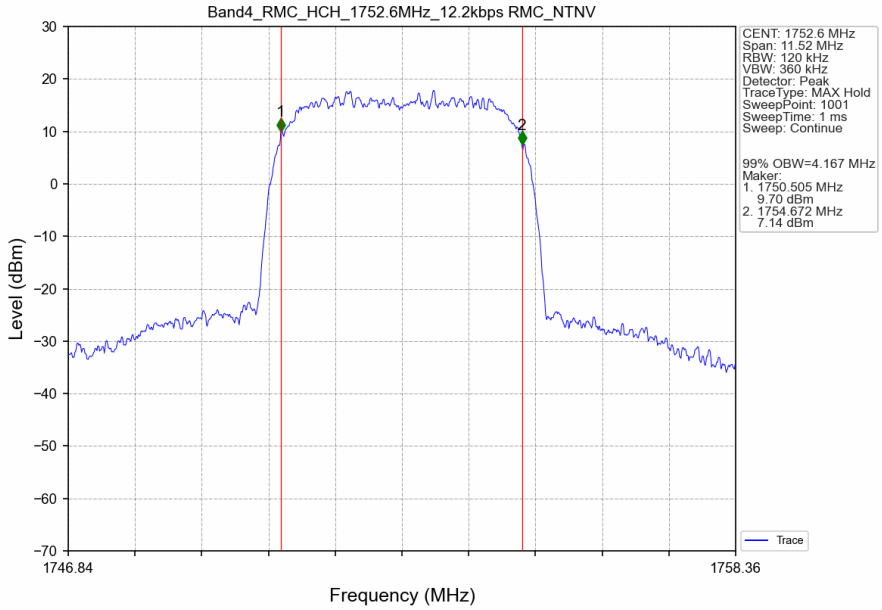
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



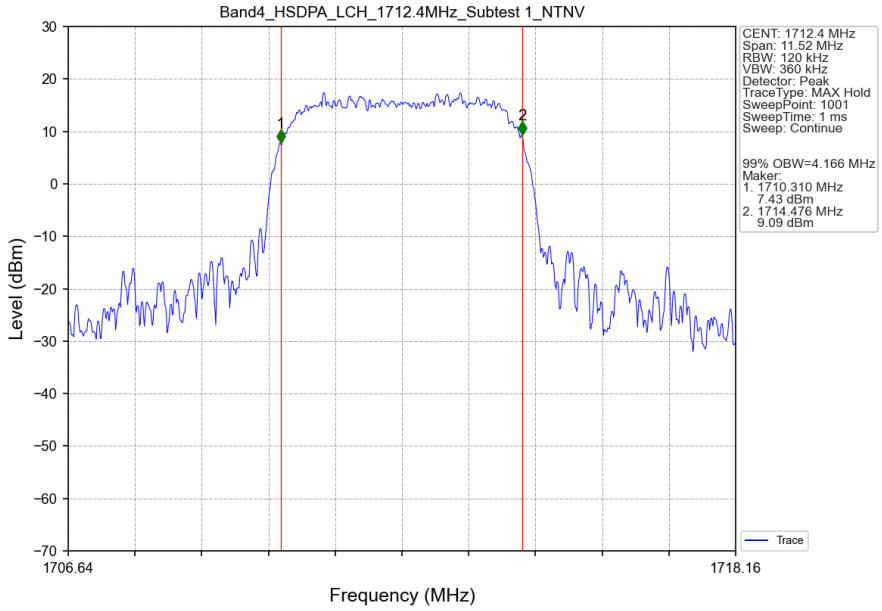
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



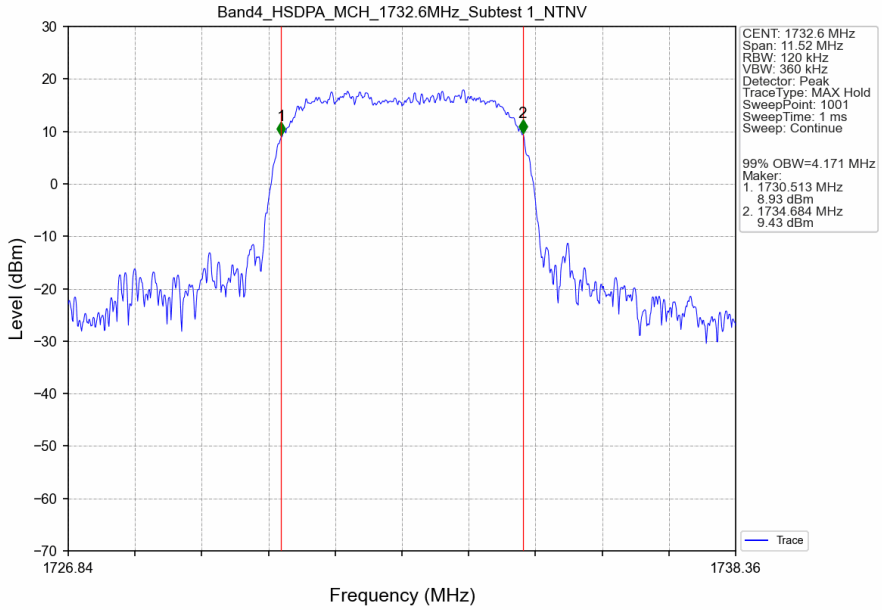
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



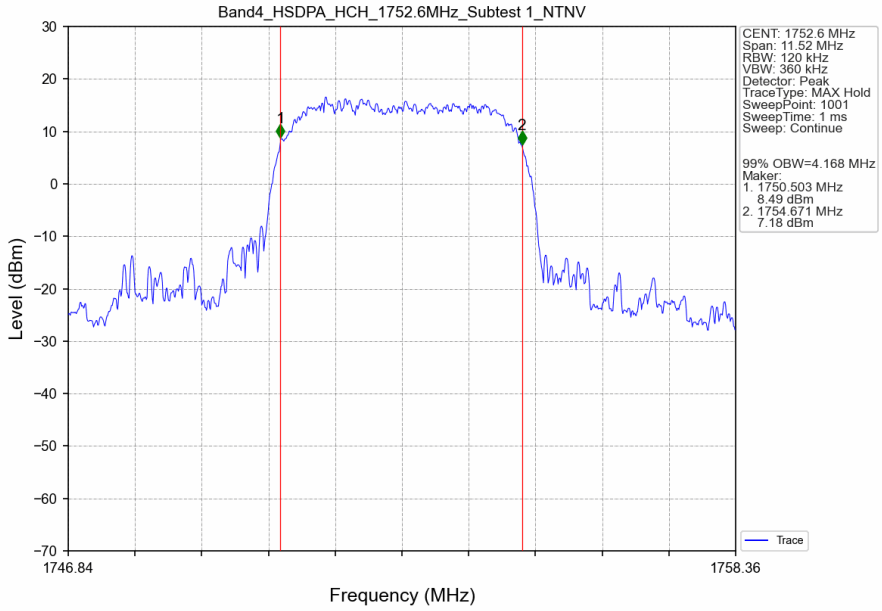
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



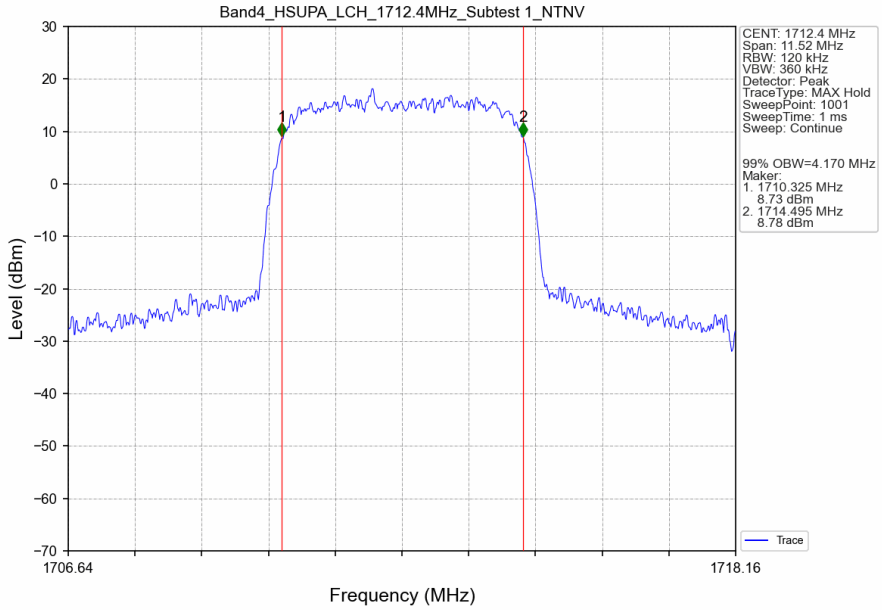
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



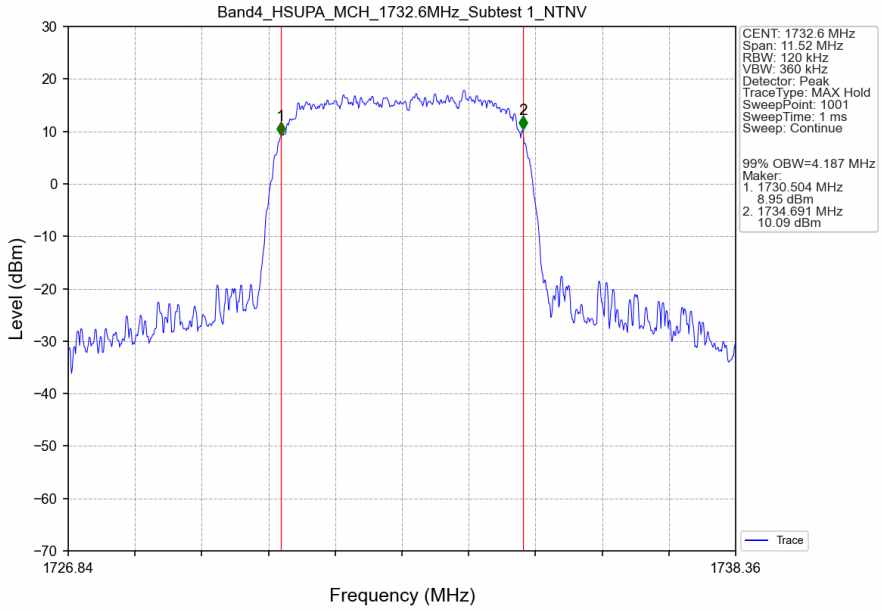
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



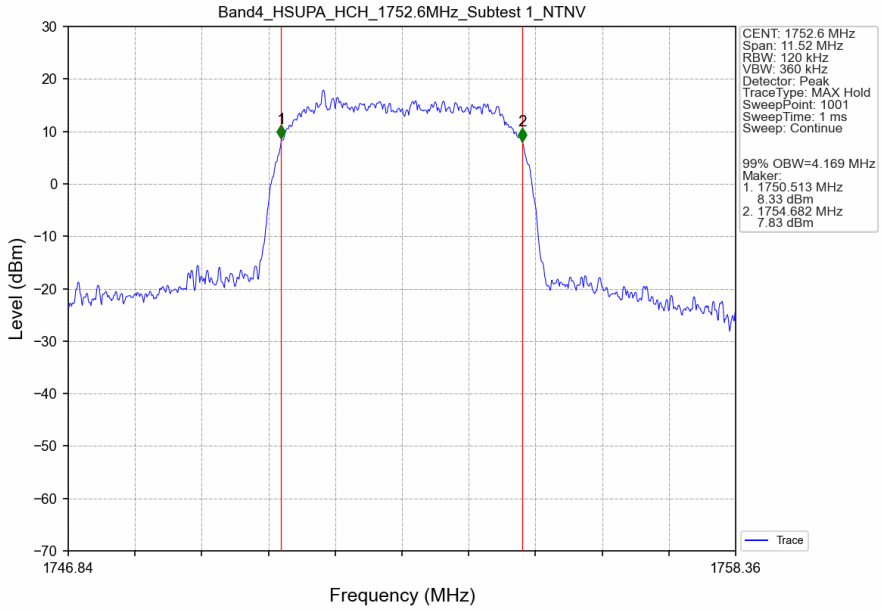
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV

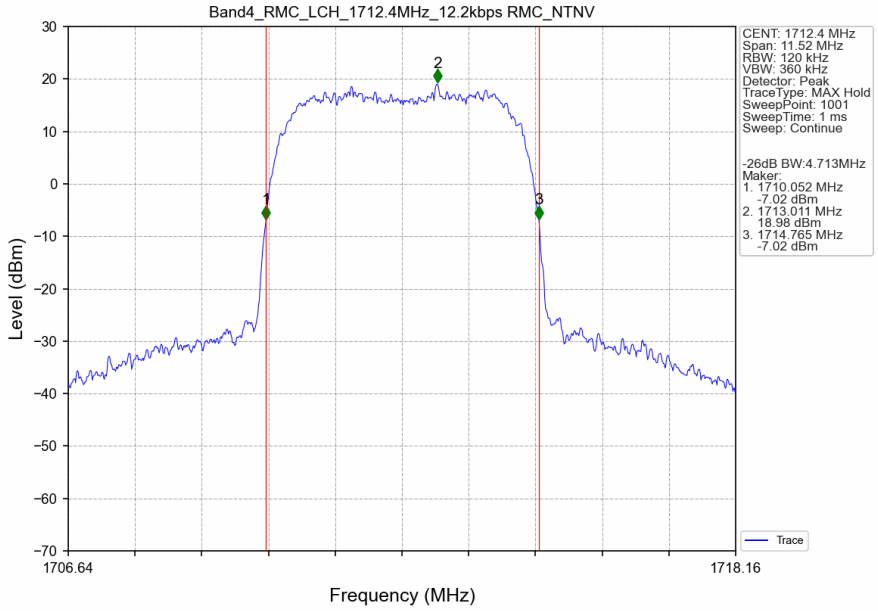


Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV

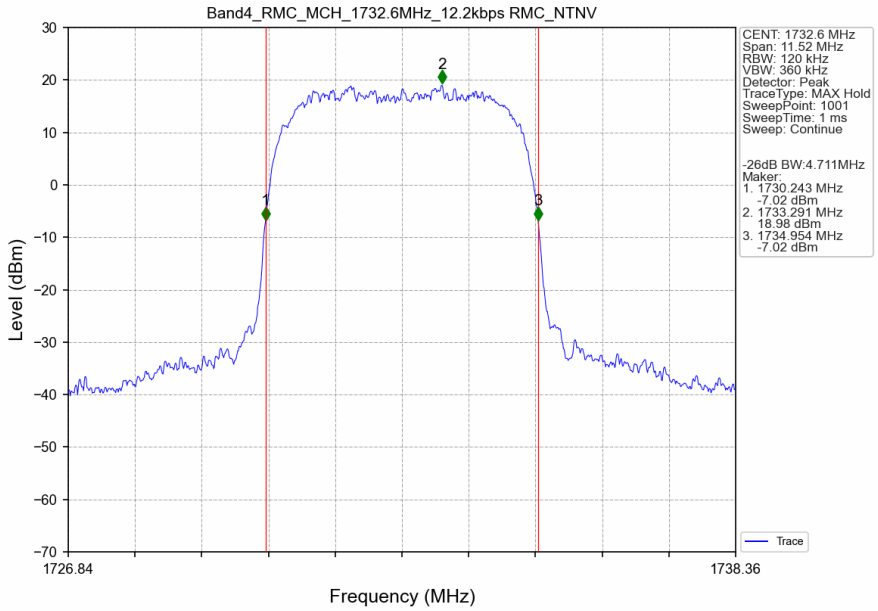


3.2.2 Band4_XDB

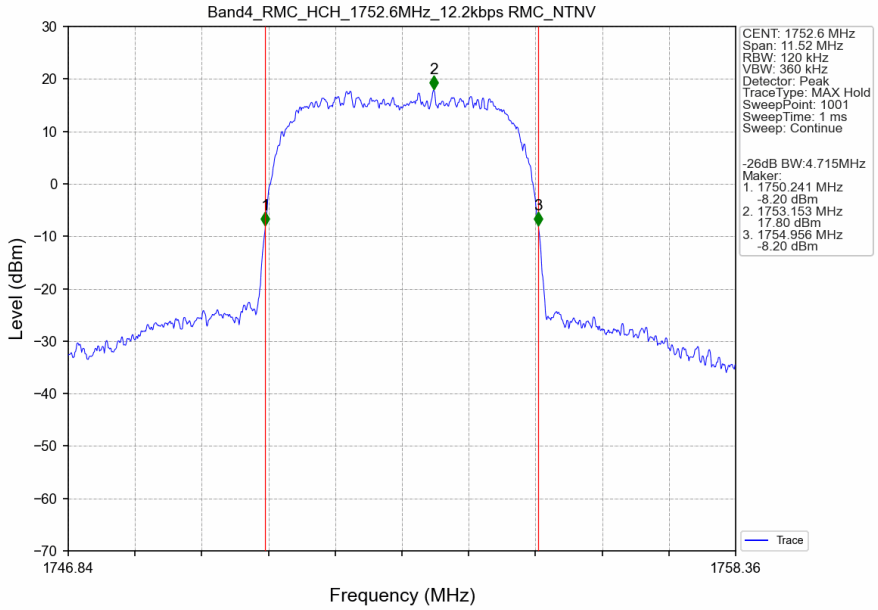
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



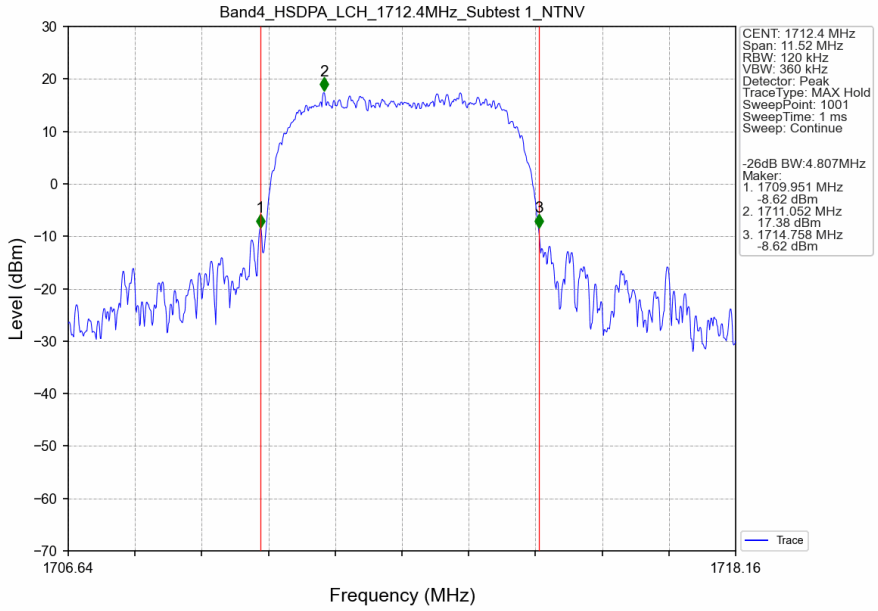
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



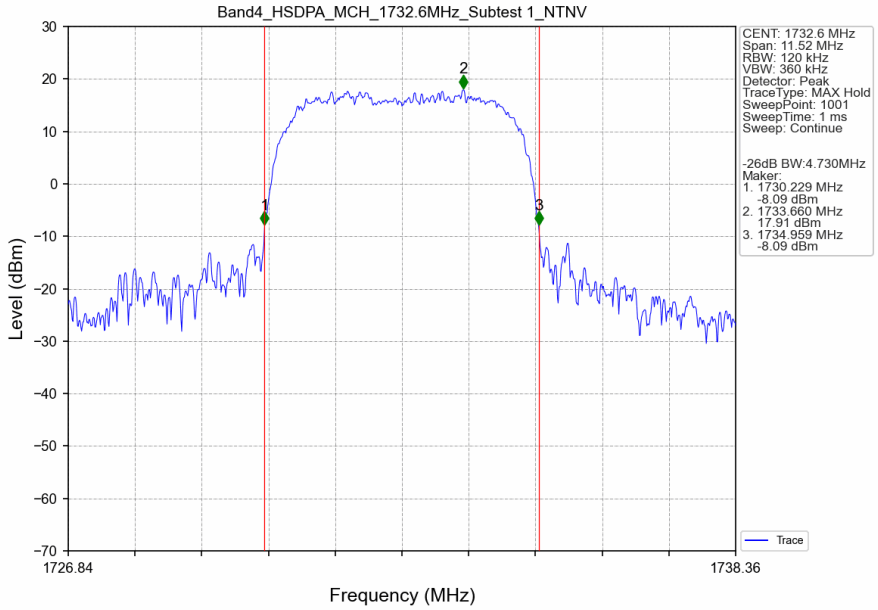
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



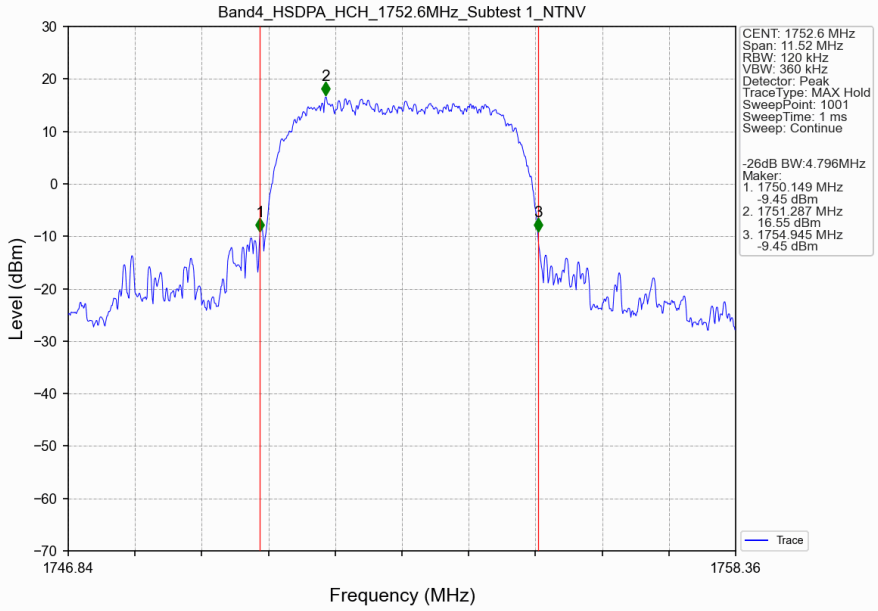
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



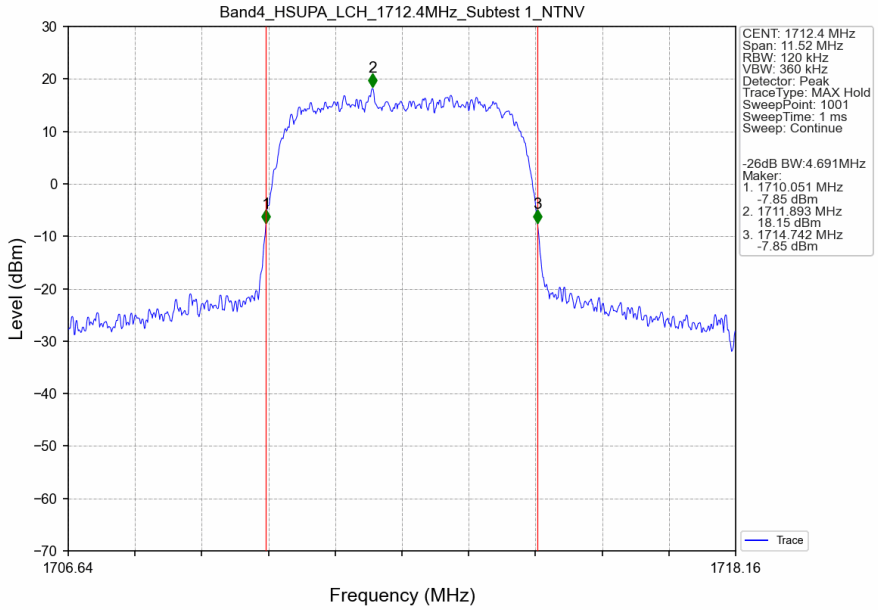
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



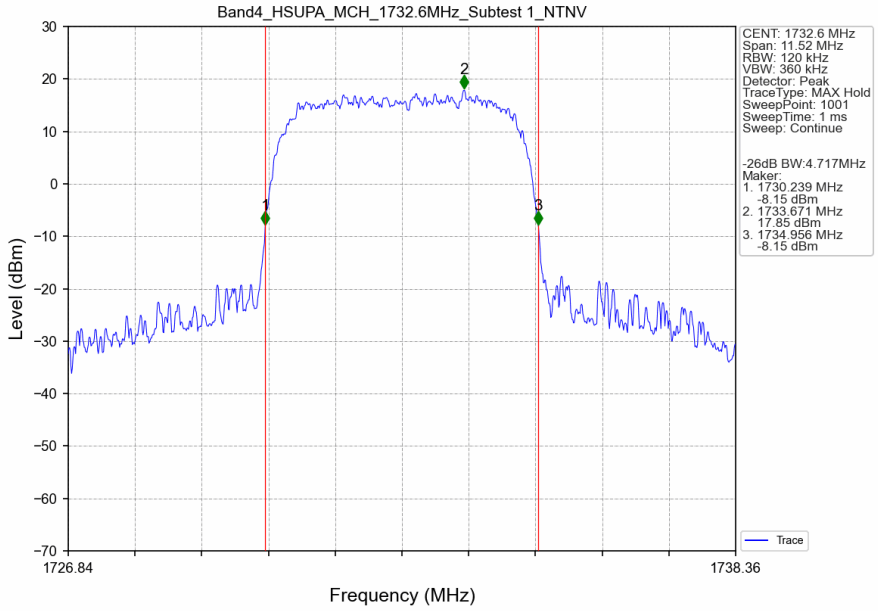
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



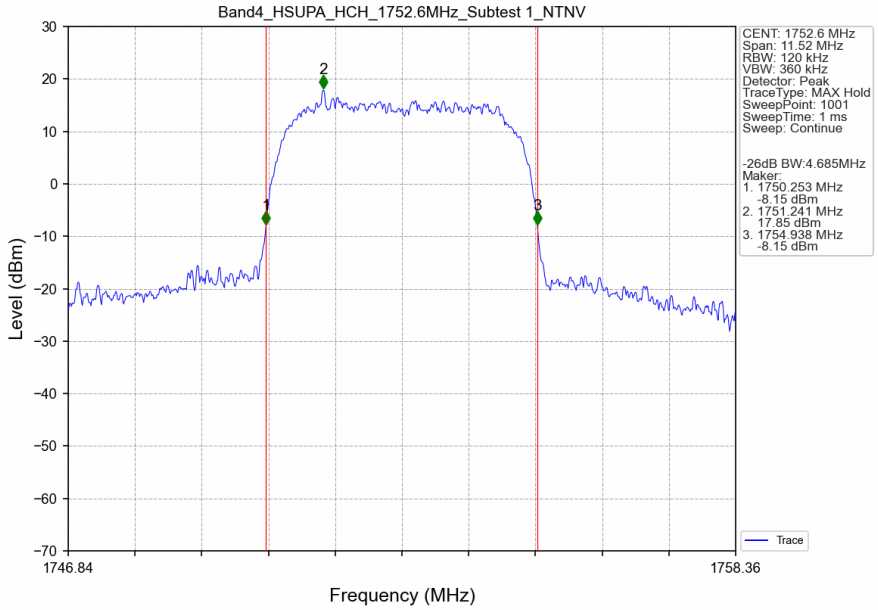
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



4. Peak-Average Ratio

4.1 Test Result

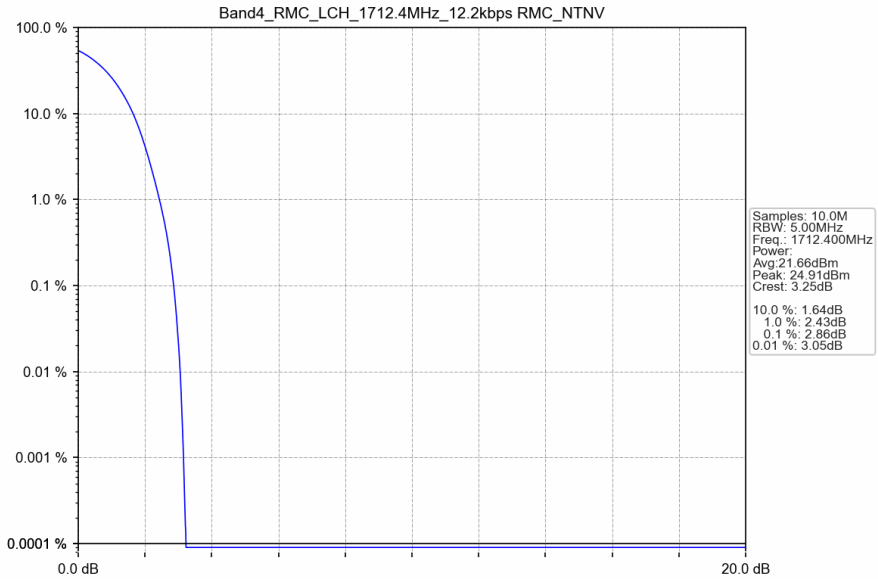
4.1.1 Band4

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.86	<=13	Pass
			1732.6	2.94	<=13	Pass
			1752.6	2.75	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.77	<=13	Pass
			1732.6	5.67	<=13	Pass
			1752.6	5.55	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.33	<=13	Pass
			1732.6	6.53	<=13	Pass
			1752.6	6.06	<=13	Pass

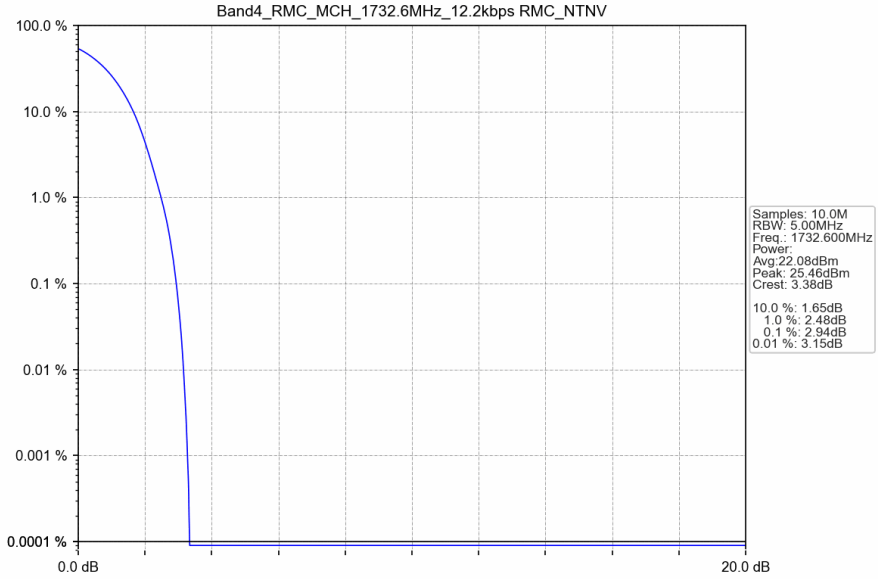
4.2 Test Graph

4.2.1 Band4

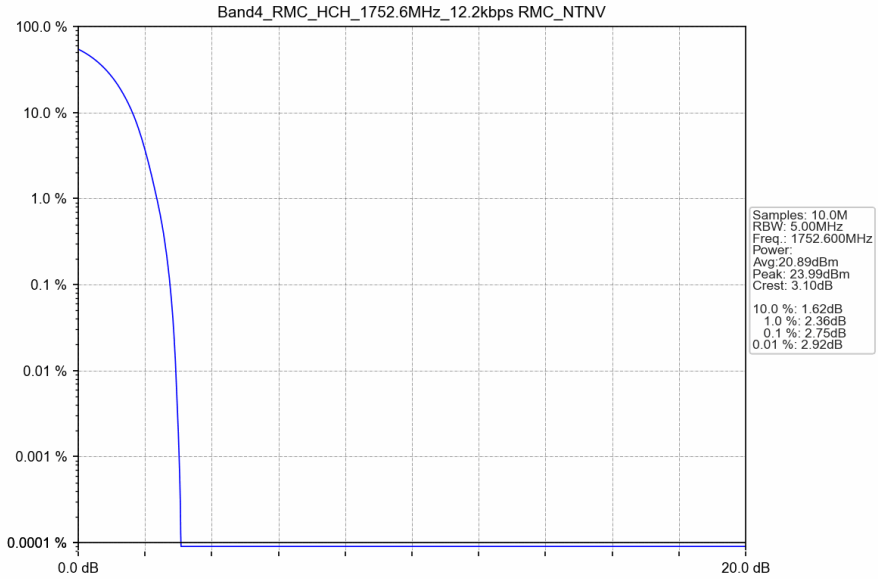
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



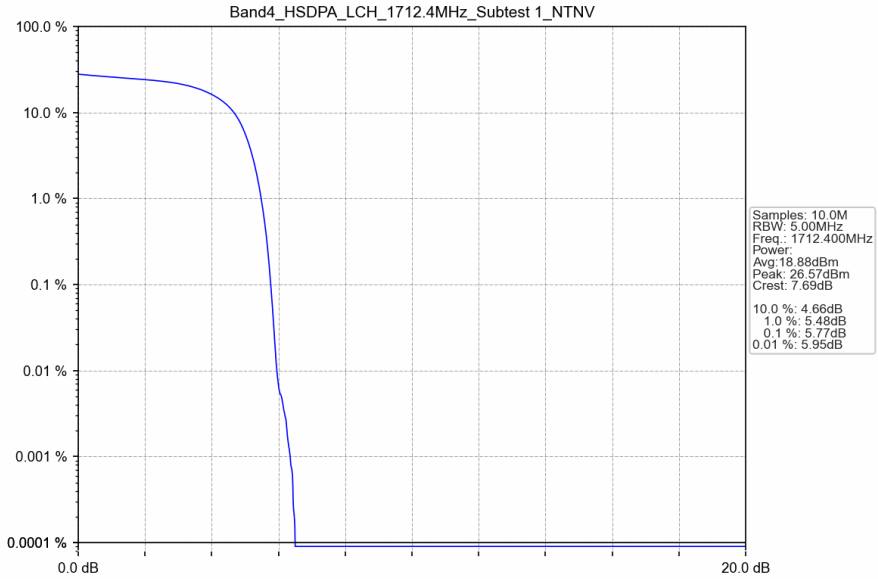
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



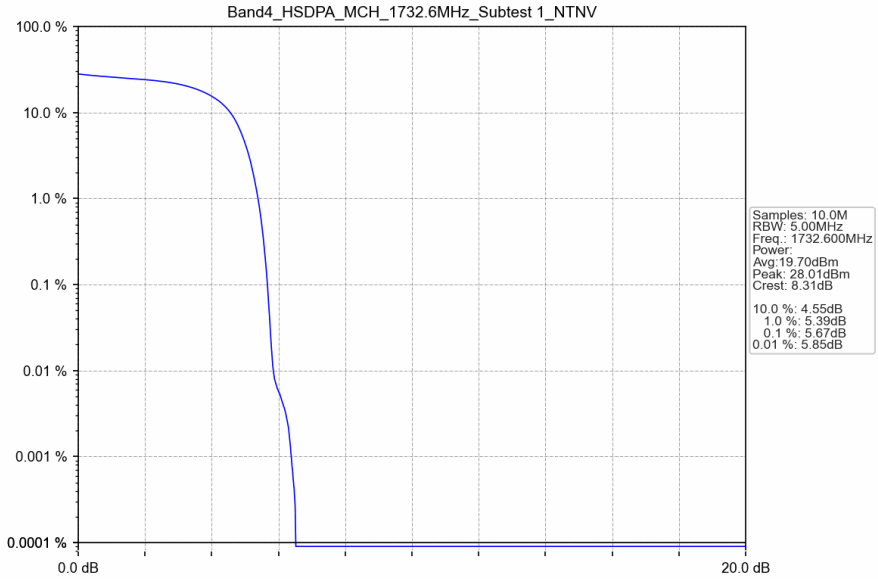
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



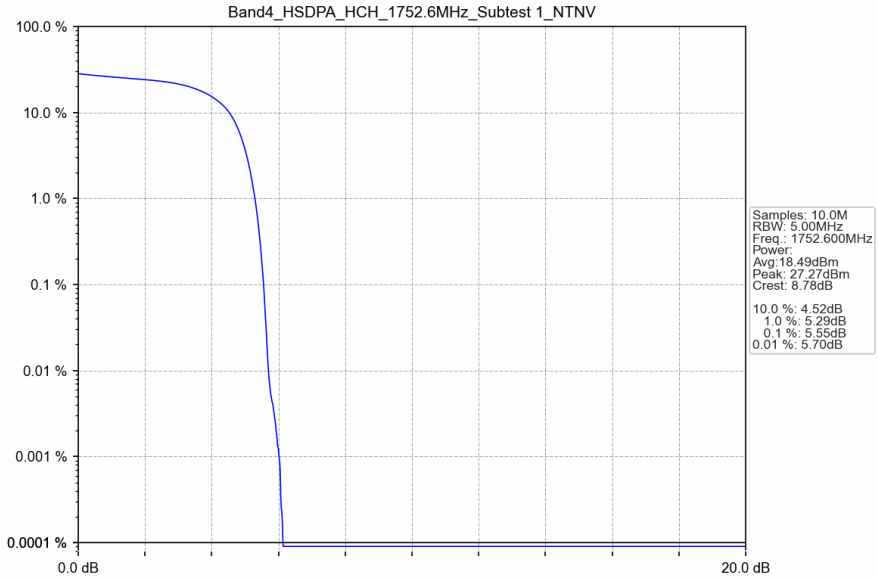
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



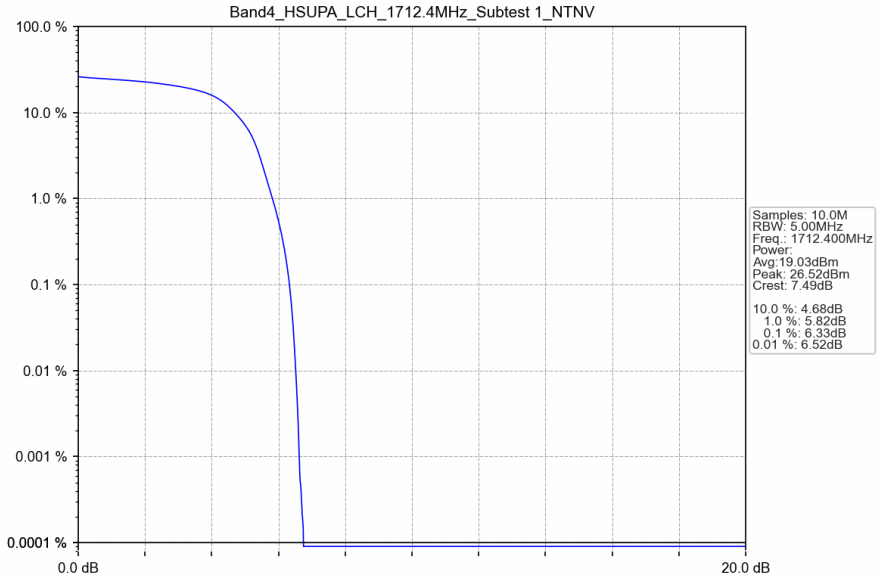
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



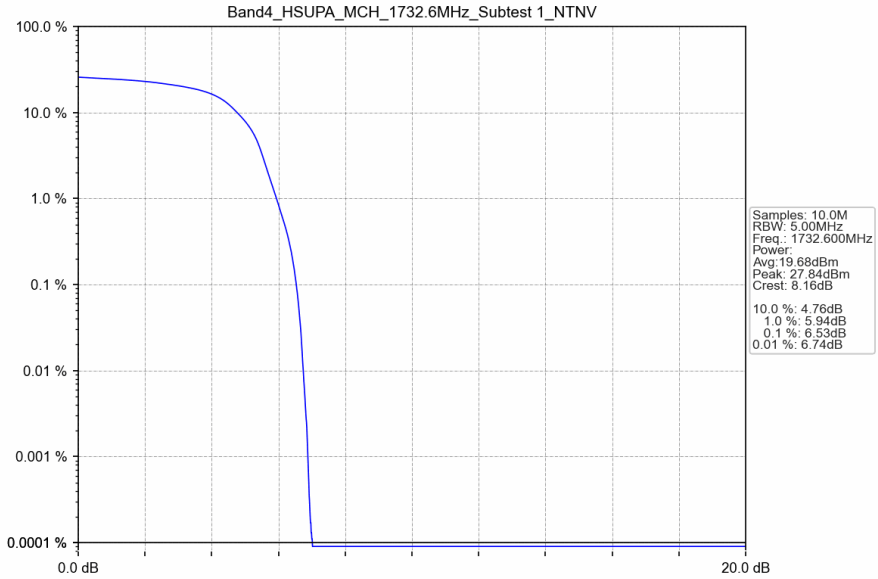
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



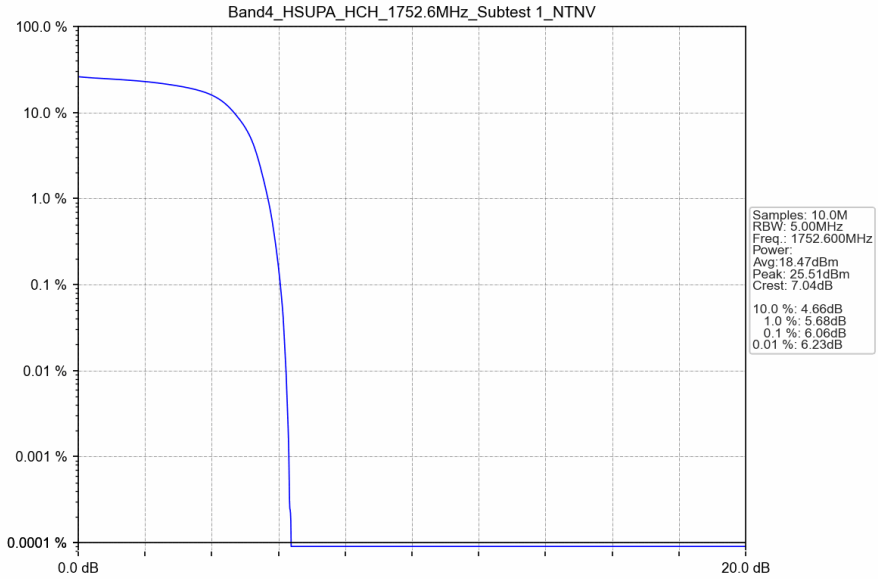
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



5. Spurious Emission

5.1 Test Result

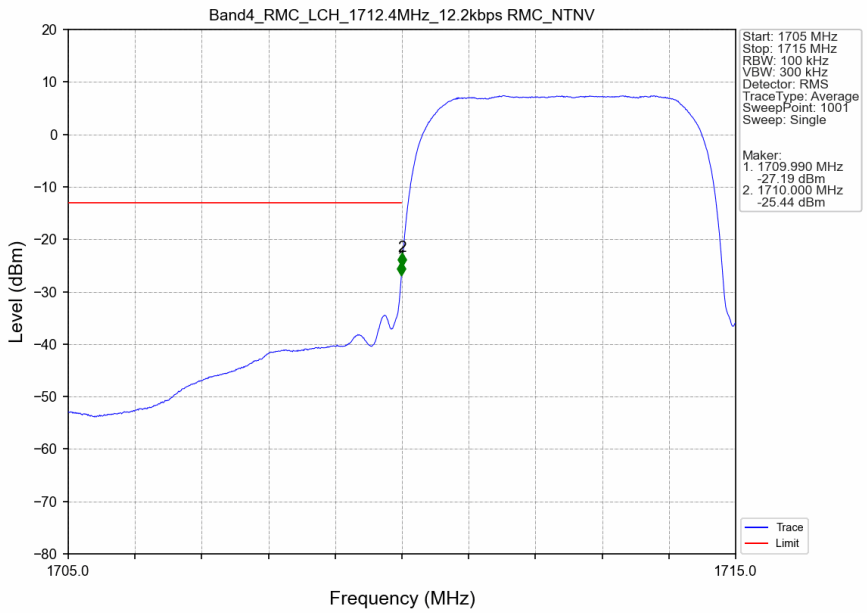
5.1.1 Band4

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

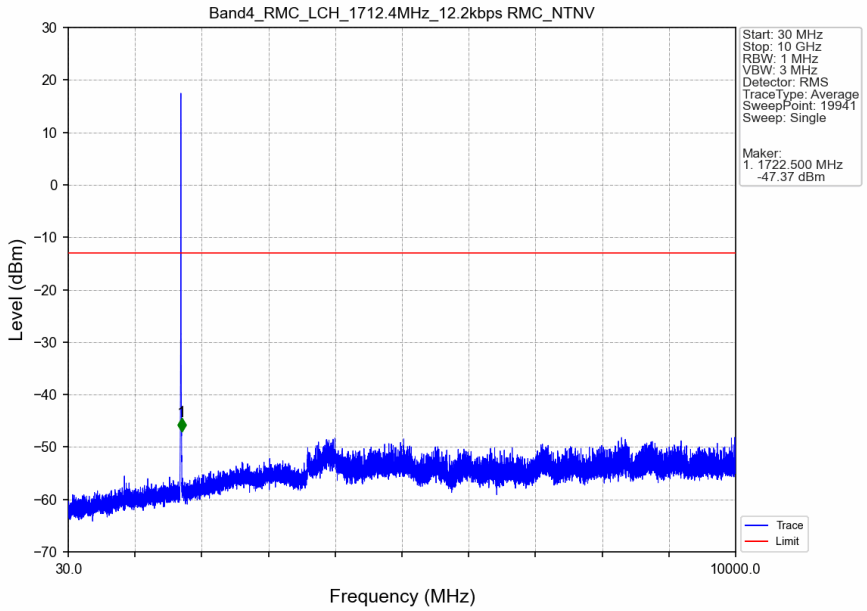
5.2 Test Graph

5.2.1 Band4

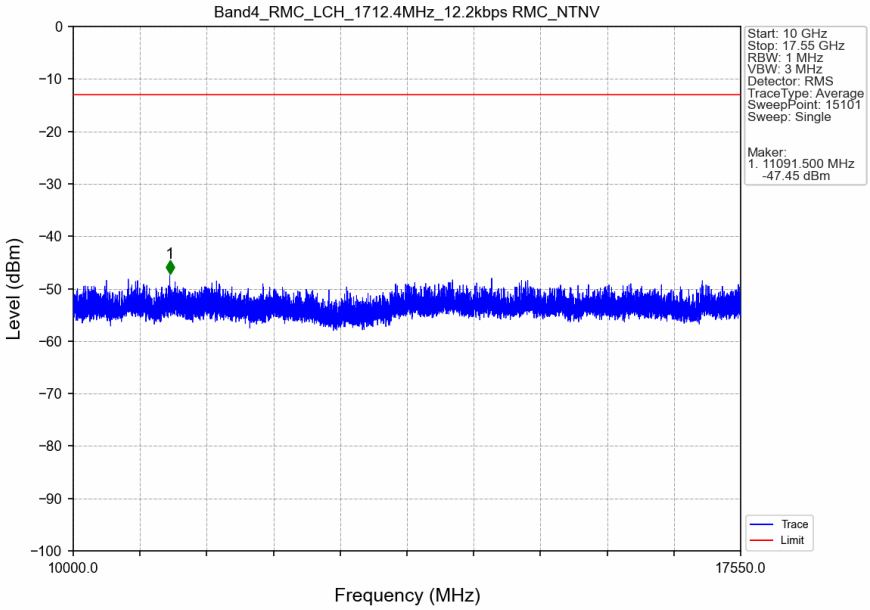
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



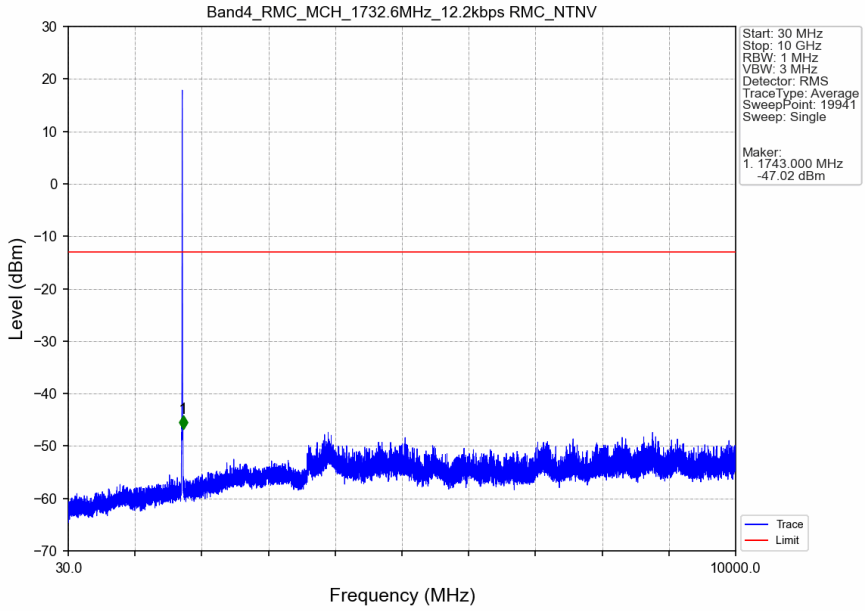
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



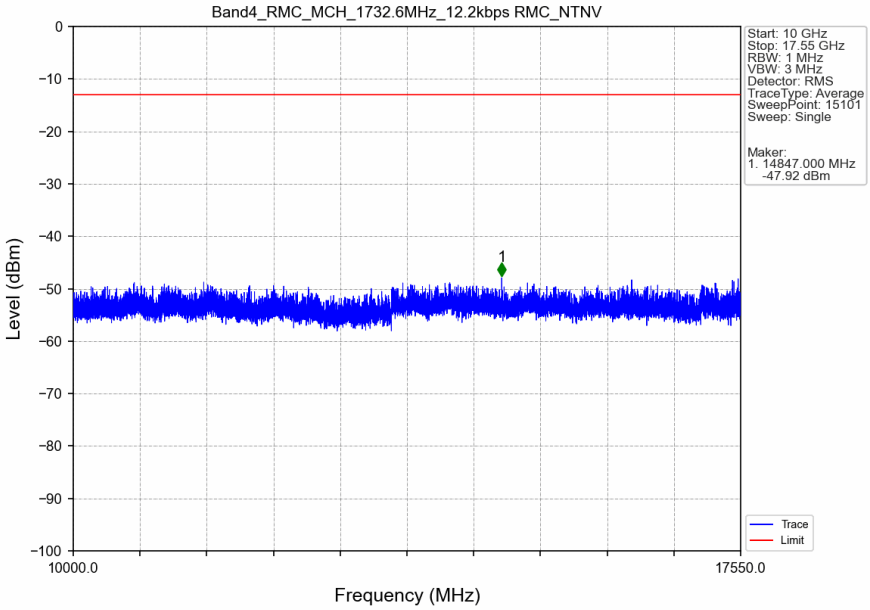
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



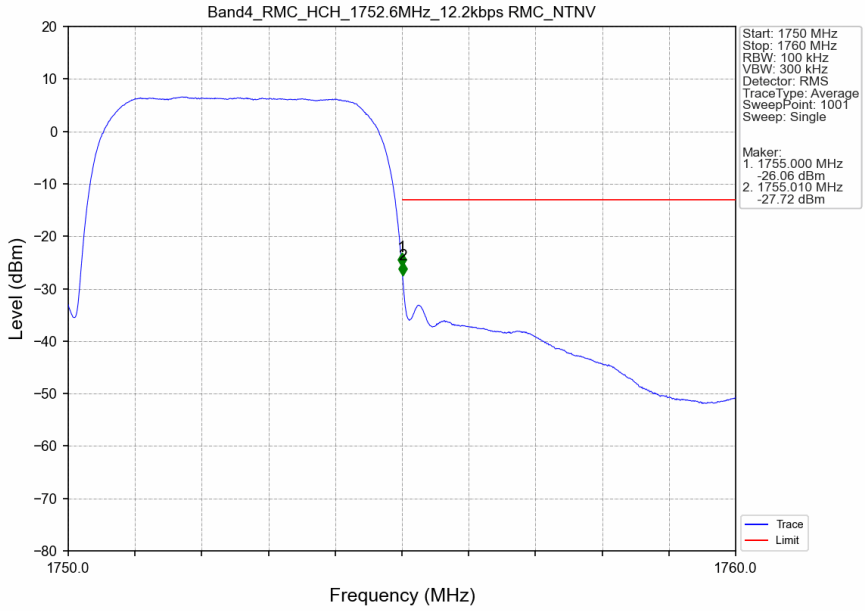
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



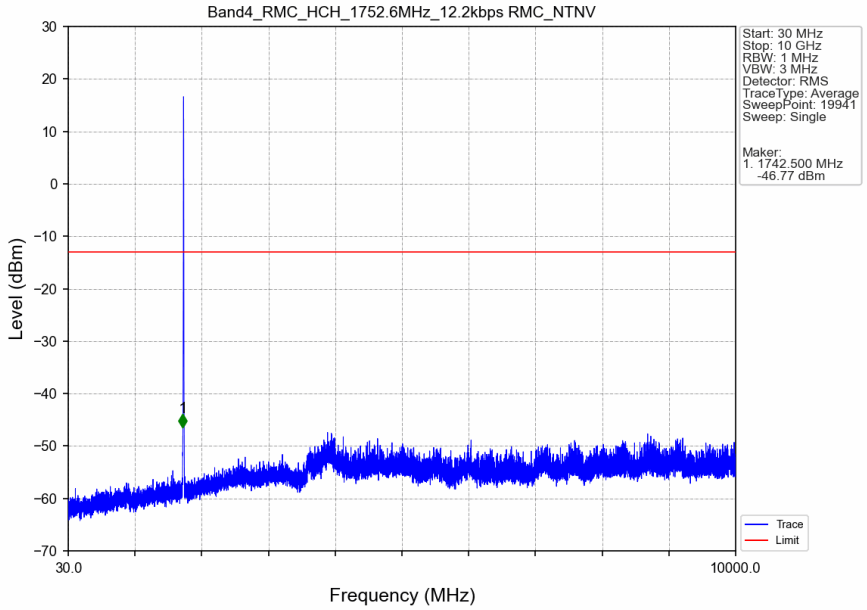
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



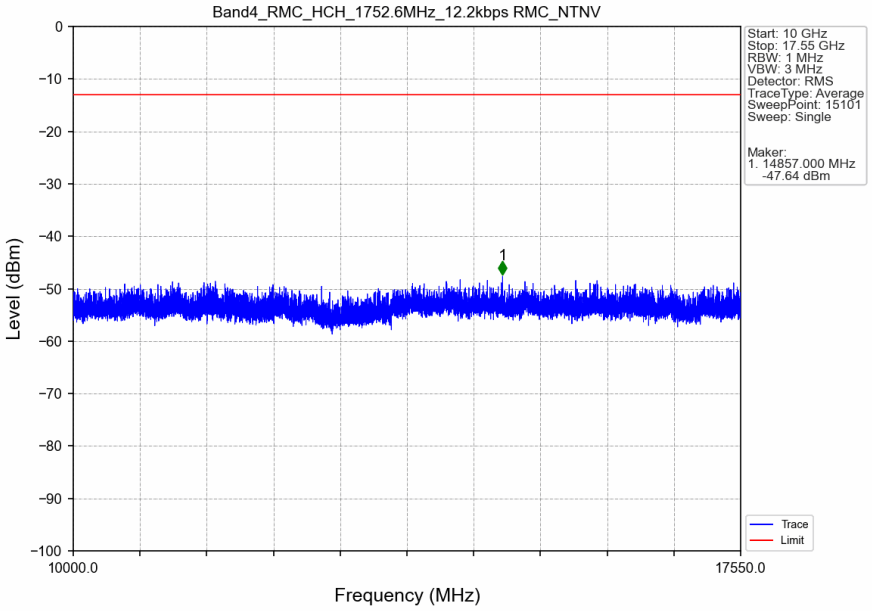
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



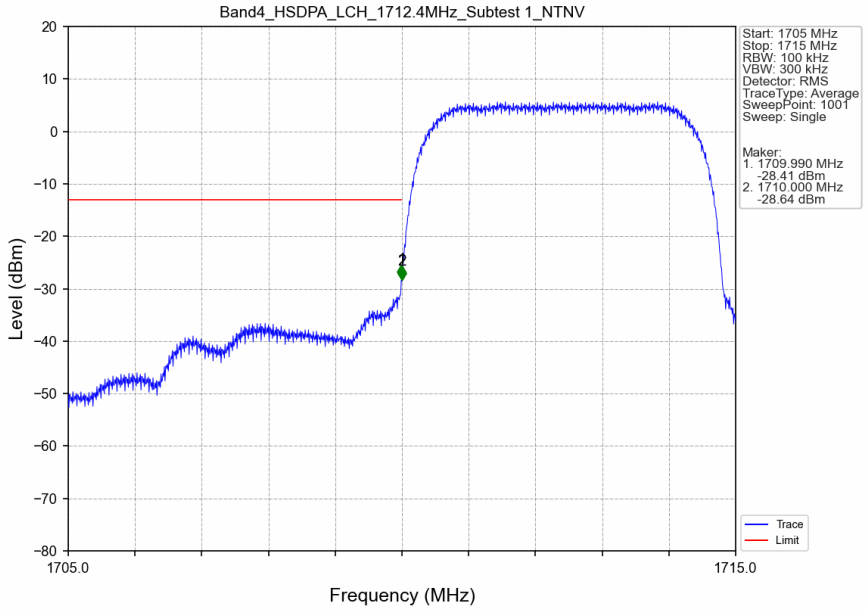
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



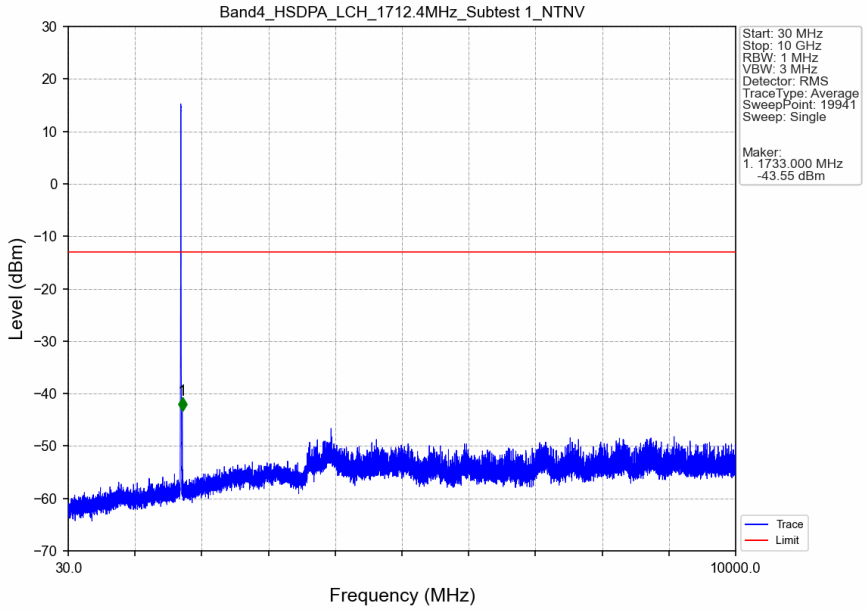
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



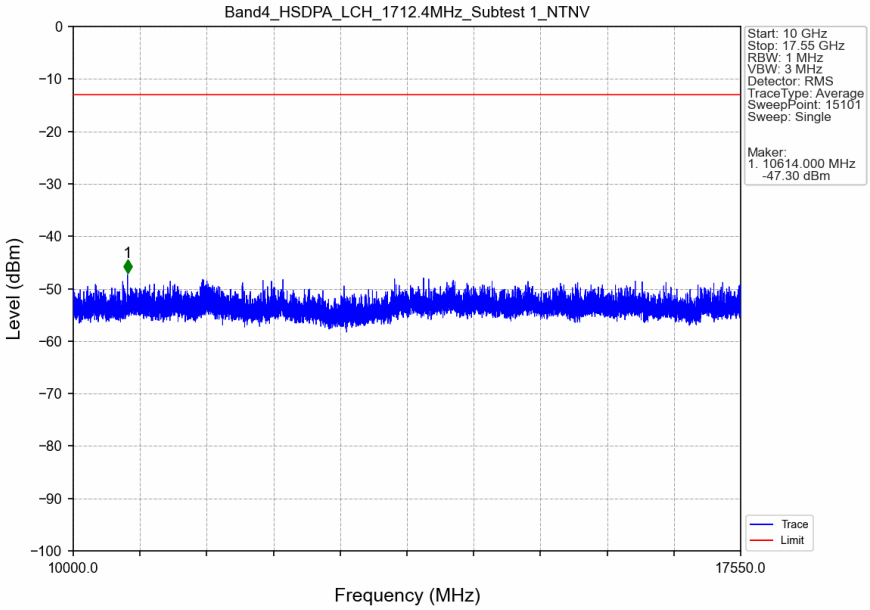
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



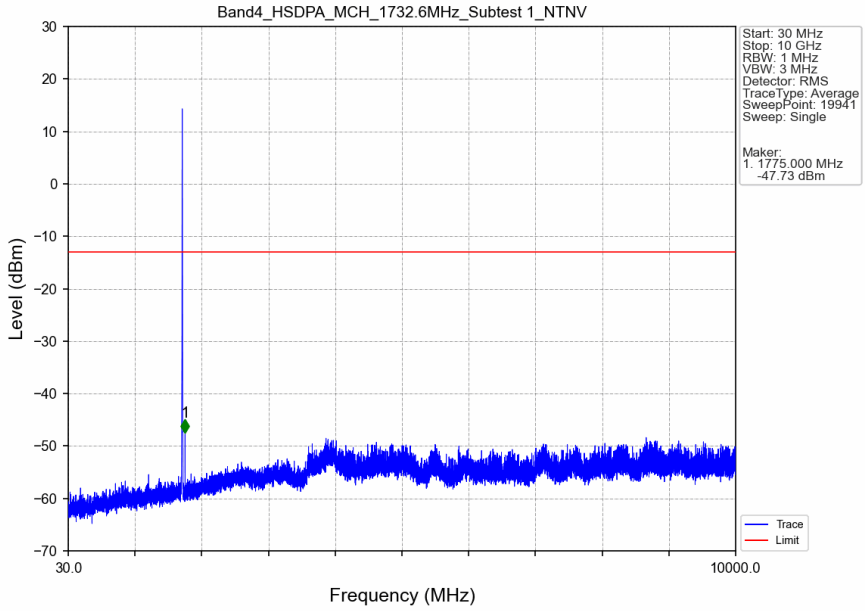
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



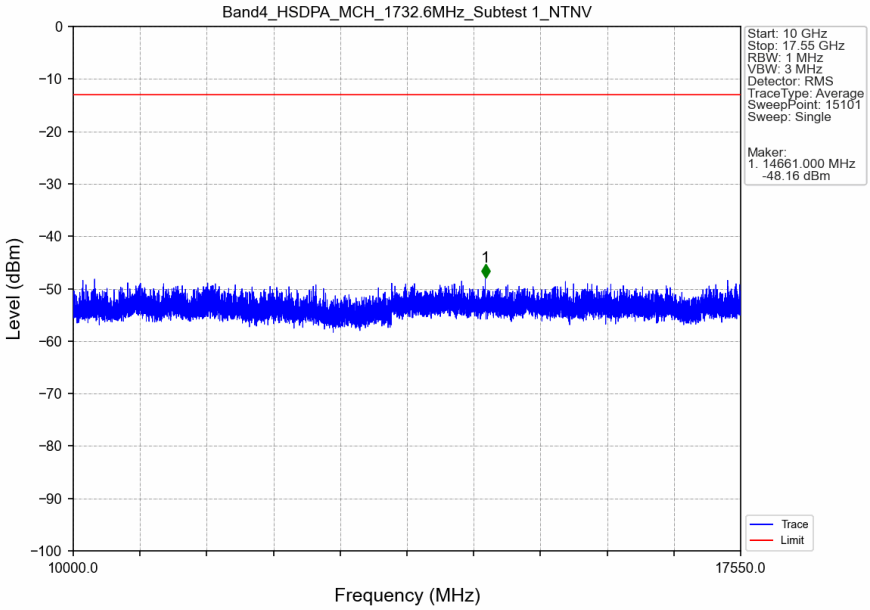
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



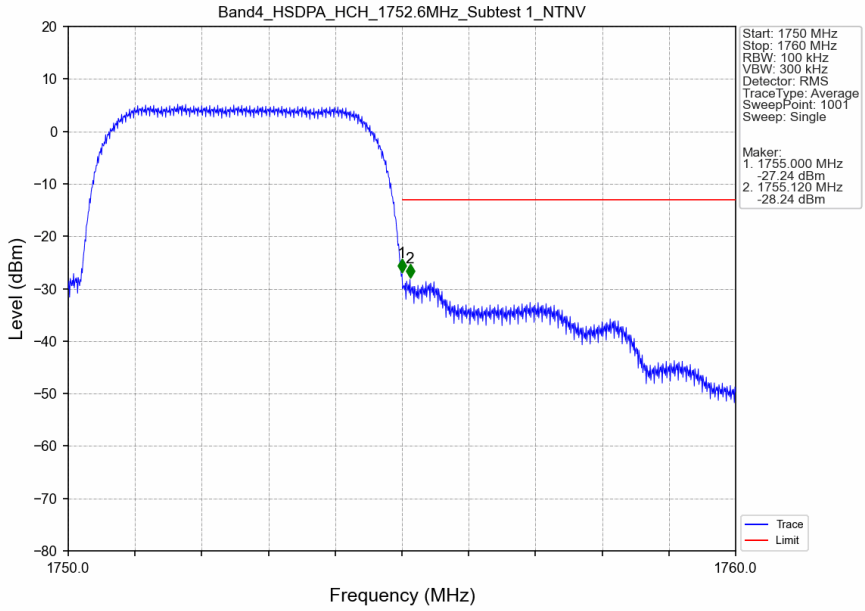
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



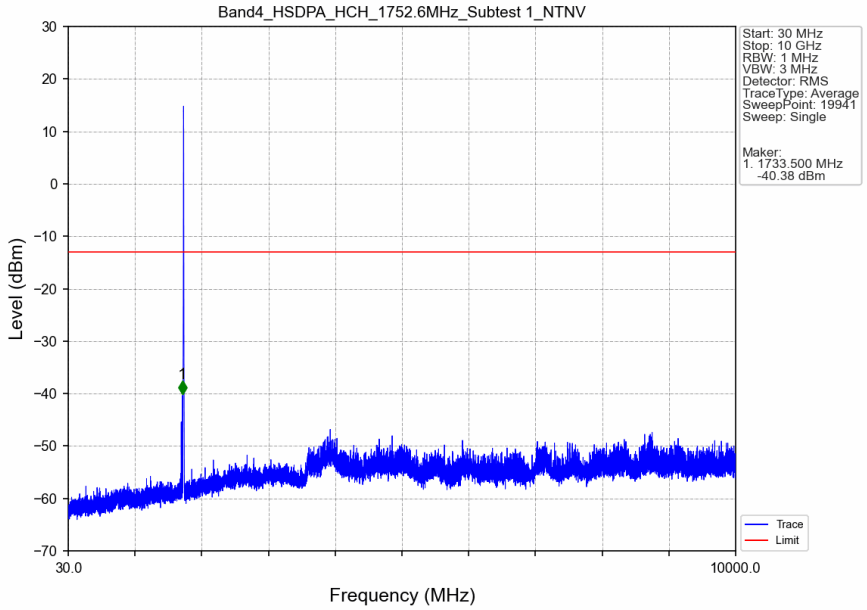
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



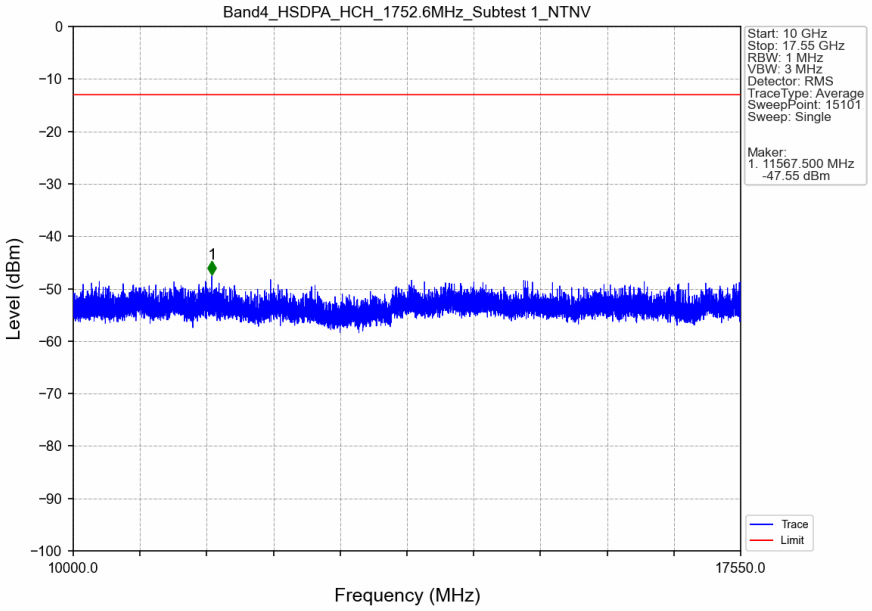
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



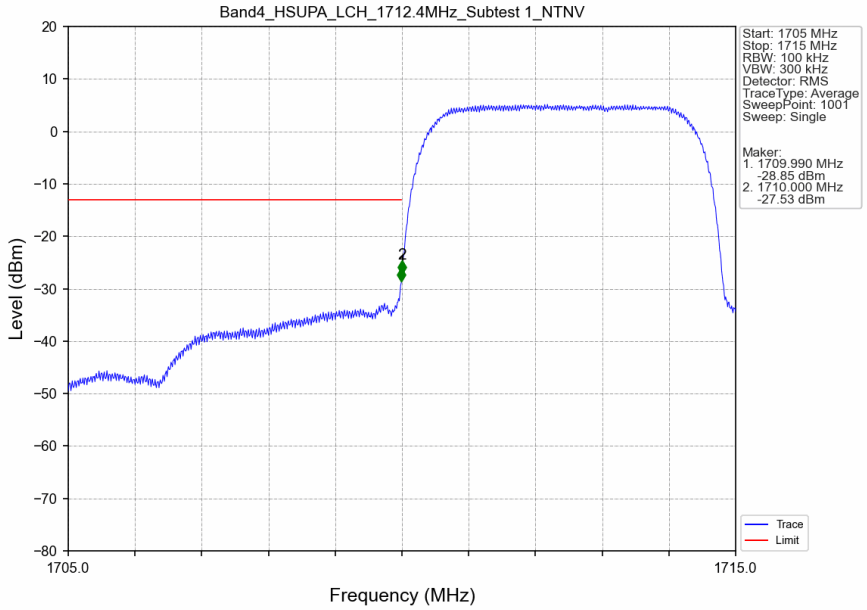
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



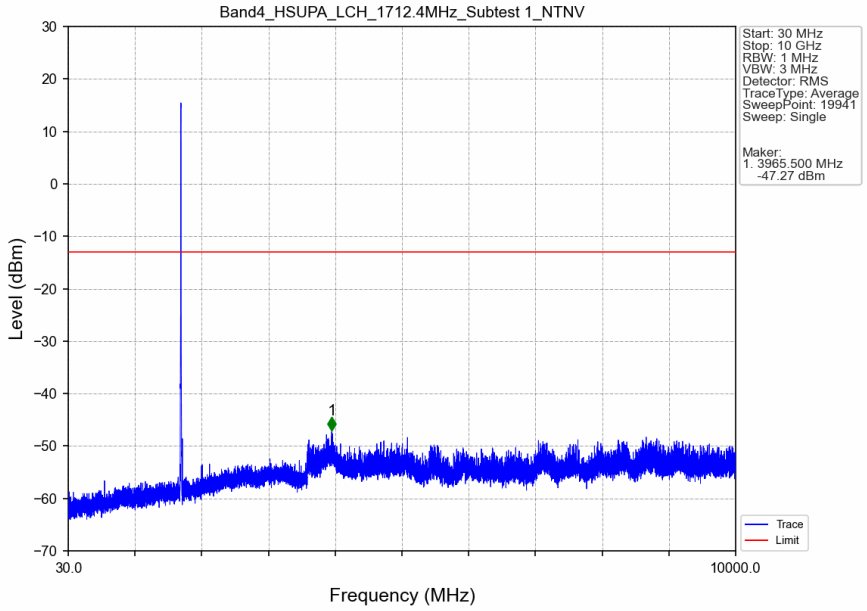
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



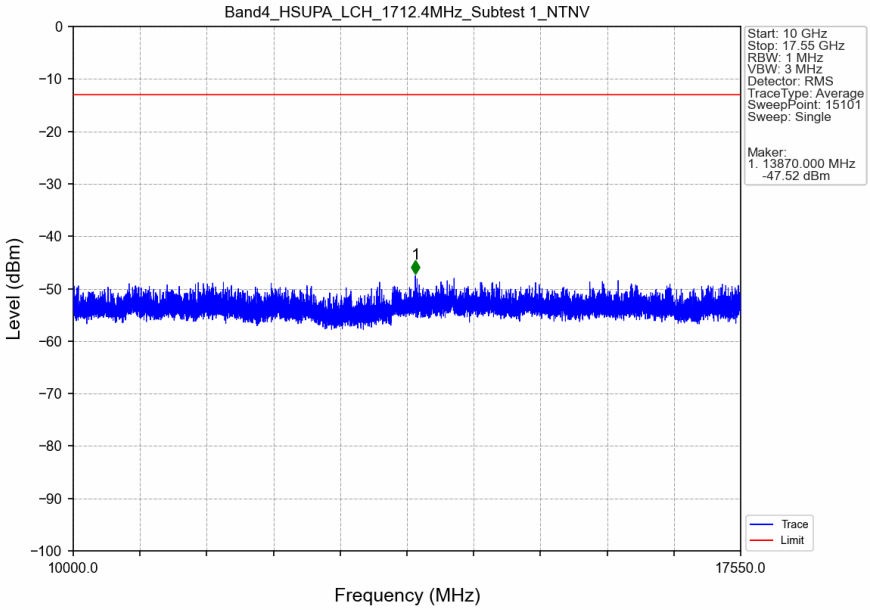
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



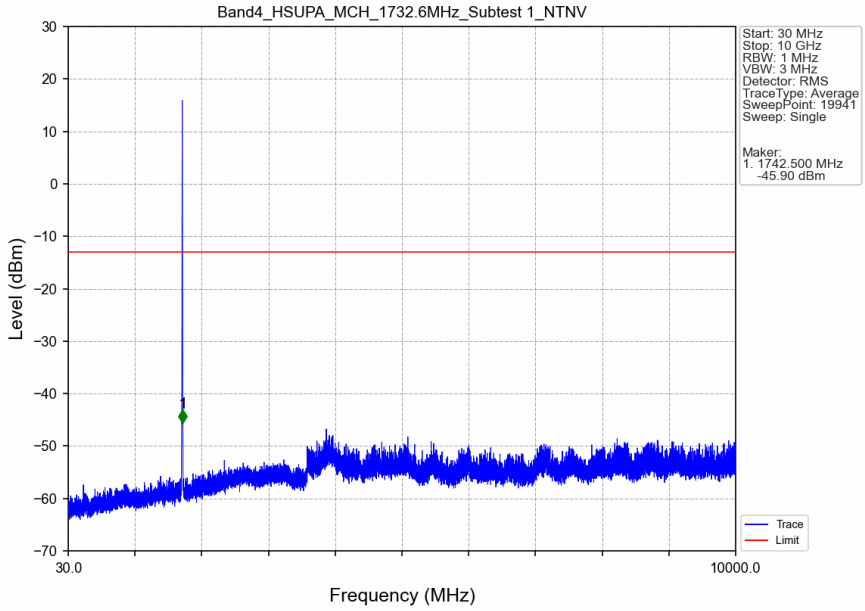
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



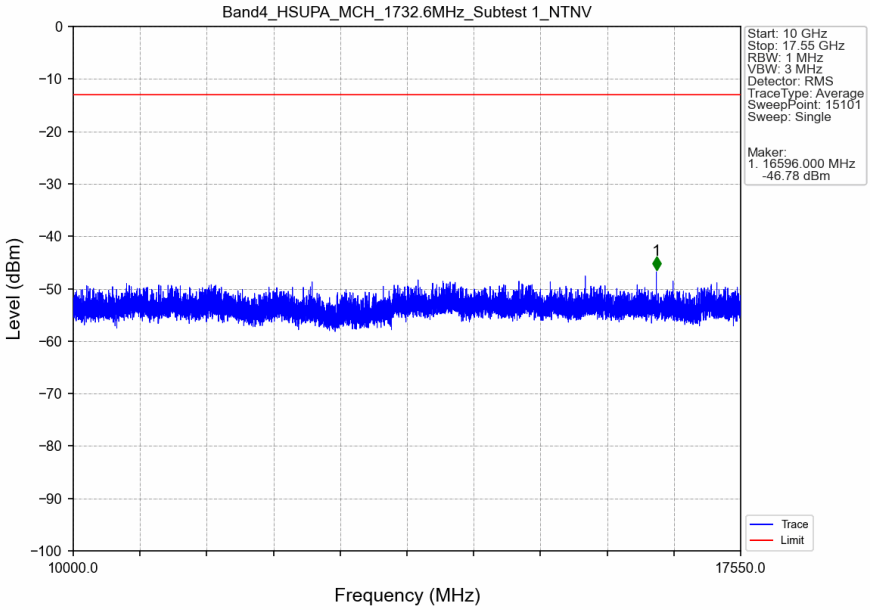
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



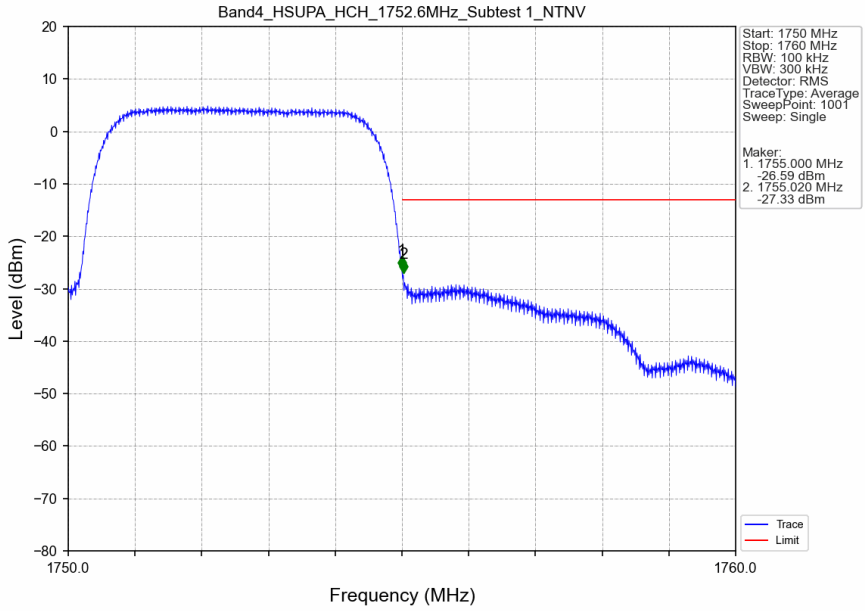
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



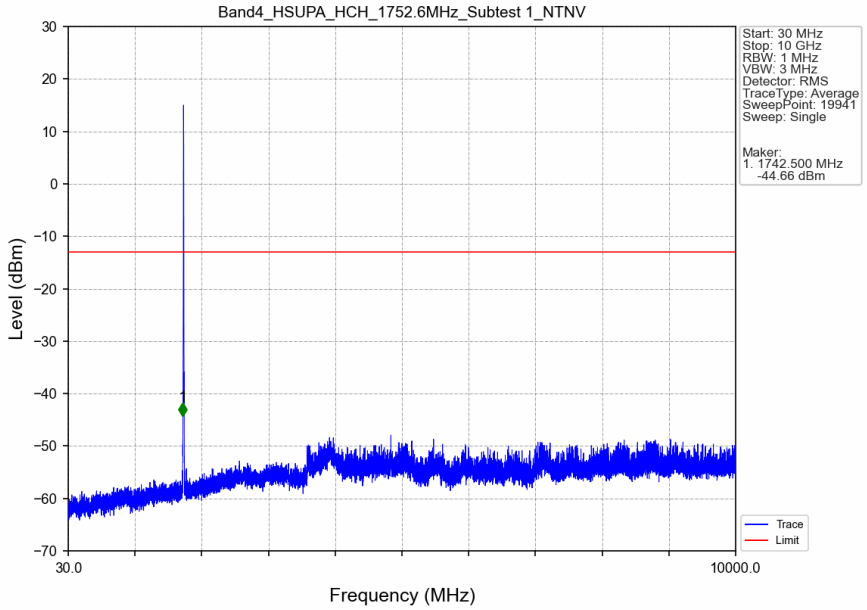
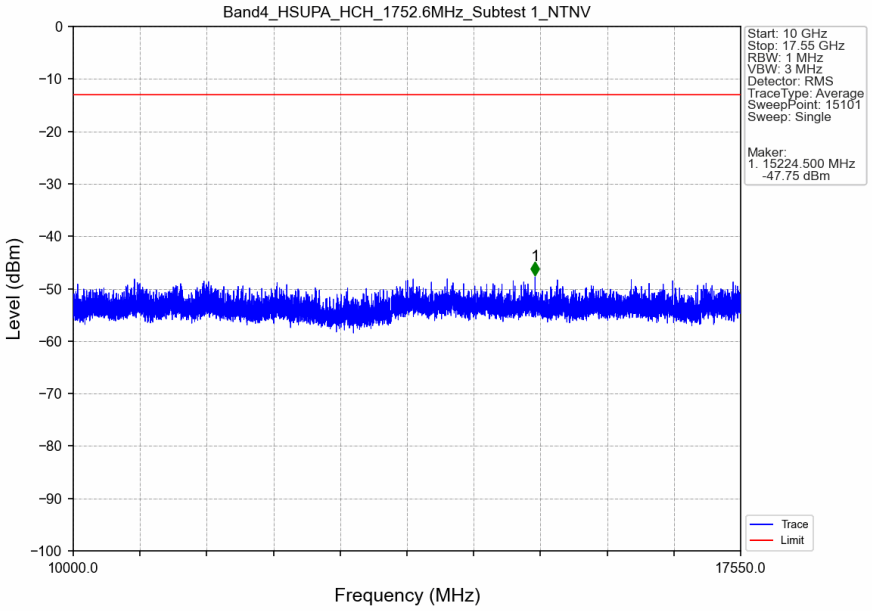
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV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