

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	23.46	1.20	24.66	<=30	Pass	
			1732.6	23.11	1.20	24.31	<=30	Pass	
			1752.6	23.02	1.20	24.22	<=30	Pass	
	HSDPA	Subtest 1	1712.4	21.81	1.20	23.01	<=30	Pass	
		Subtest 2	1712.4	21.81	1.20	23.01	<=30	Pass	
		Subtest 3	1712.4	21.74	1.20	22.94	<=30	Pass	
		Subtest 4	1712.4	21.76	1.20	22.96	<=30	Pass	
		Subtest 1	1732.6	21.44	1.20	22.64	<=30	Pass	
		Subtest 2	1732.6	21.45	1.20	22.65	<=30	Pass	
		Subtest 3	1732.6	21.39	1.20	22.59	<=30	Pass	
		Subtest 4	1732.6	21.40	1.20	22.60	<=30	Pass	
		Subtest 1	1752.6	21.33	1.20	22.53	<=30	Pass	
		Subtest 2	1752.6	21.32	1.20	22.52	<=30	Pass	
		Subtest 3	1752.6	21.28	1.20	22.48	<=30	Pass	
		Subtest 4	1752.6	21.29	1.20	22.49	<=30	Pass	
		HSUPA	Subtest 1	1712.4	20.96	1.20	22.16	<=30	Pass
			Subtest 2	1712.4	20.73	1.20	21.93	<=30	Pass
			Subtest 3	1712.4	19.54	1.20	20.74	<=30	Pass
			Subtest 4	1712.4	20.68	1.20	21.88	<=30	Pass
			Subtest 5	1712.4	19.47	1.20	20.67	<=30	Pass
			Subtest 1	1732.6	20.39	1.20	21.59	<=30	Pass
			Subtest 2	1732.6	18.98	1.20	20.18	<=30	Pass
			Subtest 3	1732.6	18.88	1.20	20.08	<=30	Pass
	Subtest 4		1732.6	19.18	1.20	20.38	<=30	Pass	
	Subtest 5		1732.6	18.88	1.20	20.08	<=30	Pass	
	Subtest 1		1752.6	20.27	1.20	21.47	<=30	Pass	
	Subtest 2		1752.6	20.24	1.20	21.44	<=30	Pass	
	Subtest 3		1752.6	20.22	1.20	21.42	<=30	Pass	
	Subtest 4		1752.6	20.31	1.20	21.51	<=30	Pass	
	Subtest 5		1752.6	20.45	1.20	21.65	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

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	3.65	15.849	0.0093	-2.5 to 2.5	Pass
			3.87	15.739	0.0092	-2.5 to 2.5	Pass
			4.45	15.404	0.0090	-2.5 to 2.5	Pass
		-30	3.87	15.703	0.0092	-2.5 to 2.5	Pass
		-20	3.87	15.661	0.0091	-2.5 to 2.5	Pass
		-10	3.87	15.801	0.0092	-2.5 to 2.5	Pass
		0	3.87	15.629	0.0091	-2.5 to 2.5	Pass
		10	3.87	15.233	0.0089	-2.5 to 2.5	Pass
		30	3.87	15.573	0.0091	-2.5 to 2.5	Pass
		40	3.87	15.634	0.0091	-2.5 to 2.5	Pass
		50	3.87	14.999	0.0088	-2.5 to 2.5	Pass
	1732.6	20	3.65	-3.536	-0.0020	-2.5 to 2.5	Pass
			3.87	-3.390	-0.0020	-2.5 to 2.5	Pass
			4.45	-3.649	-0.0021	-2.5 to 2.5	Pass
		-30	3.87	-3.613	-0.0021	-2.5 to 2.5	Pass
		-20	3.87	-3.713	-0.0021	-2.5 to 2.5	Pass
		-10	3.87	-3.667	-0.0021	-2.5 to 2.5	Pass
		0	3.87	-3.616	-0.0021	-2.5 to 2.5	Pass
		10	3.87	-3.898	-0.0022	-2.5 to 2.5	Pass
		30	3.87	-3.510	-0.0020	-2.5 to 2.5	Pass
		40	3.87	-3.763	-0.0022	-2.5 to 2.5	Pass
		50	3.87	-3.490	-0.0020	-2.5 to 2.5	Pass
	1752.6	20	3.65	-14.670	-0.0084	-2.5 to 2.5	Pass
			3.87	-14.281	-0.0081	-2.5 to 2.5	Pass
			4.45	-14.898	-0.0085	-2.5 to 2.5	Pass
		-30	3.87	-14.593	-0.0083	-2.5 to 2.5	Pass
		-20	3.87	-14.304	-0.0082	-2.5 to 2.5	Pass
		-10	3.87	-14.867	-0.0085	-2.5 to 2.5	Pass
		0	3.87	-14.990	-0.0086	-2.5 to 2.5	Pass
		10	3.87	-14.258	-0.0081	-2.5 to 2.5	Pass
		30	3.87	-14.901	-0.0085	-2.5 to 2.5	Pass
		40	3.87	-14.509	-0.0083	-2.5 to 2.5	Pass
		50	3.87	-15.067	-0.0086	-2.5 to 2.5	Pass
HSDPA	1712.4	20	3.65	14.780	0.0086	-2.5 to 2.5	Pass
			3.87	15.332	0.0090	-2.5 to 2.5	Pass
			4.45	14.576	0.0085	-2.5 to 2.5	Pass
		-30	3.87	14.675	0.0086	-2.5 to 2.5	Pass
		-20	3.87	14.608	0.0085	-2.5 to 2.5	Pass
		-10	3.87	14.810	0.0086	-2.5 to 2.5	Pass
		0	3.87	14.538	0.0085	-2.5 to 2.5	Pass
		10	3.87	14.784	0.0086	-2.5 to 2.5	Pass
		30	3.87	14.983	0.0087	-2.5 to 2.5	Pass
		40	3.87	15.201	0.0089	-2.5 to 2.5	Pass
		50	3.87	15.044	0.0088	-2.5 to 2.5	Pass

	1732.6	20	3.65	-5.779	-0.0033	-2.5 to 2.5	Pass
			3.87	-4.994	-0.0029	-2.5 to 2.5	Pass
			4.45	-4.596	-0.0027	-2.5 to 2.5	Pass
		-30	3.87	-4.922	-0.0028	-2.5 to 2.5	Pass
		-20	3.87	-5.059	-0.0029	-2.5 to 2.5	Pass
		-10	3.87	-5.500	-0.0032	-2.5 to 2.5	Pass
		0	3.87	-4.538	-0.0026	-2.5 to 2.5	Pass
		10	3.87	-5.226	-0.0030	-2.5 to 2.5	Pass
		30	3.87	-4.986	-0.0029	-2.5 to 2.5	Pass
		40	3.87	-5.566	-0.0032	-2.5 to 2.5	Pass
		50	3.87	-5.101	-0.0029	-2.5 to 2.5	Pass
	1752.6	20	3.65	-16.150	-0.0092	-2.5 to 2.5	Pass
			3.87	-16.609	-0.0095	-2.5 to 2.5	Pass
			4.45	-16.429	-0.0094	-2.5 to 2.5	Pass
		-30	3.87	-16.287	-0.0093	-2.5 to 2.5	Pass
		-20	3.87	-17.034	-0.0097	-2.5 to 2.5	Pass
		-10	3.87	-17.350	-0.0099	-2.5 to 2.5	Pass
		0	3.87	-16.975	-0.0097	-2.5 to 2.5	Pass
		10	3.87	-16.202	-0.0092	-2.5 to 2.5	Pass
		30	3.87	-17.260	-0.0098	-2.5 to 2.5	Pass
		40	3.87	-16.452	-0.0094	-2.5 to 2.5	Pass
		50	3.87	-17.499	-0.0100	-2.5 to 2.5	Pass
HSUPA	1712.4	20	3.65	15.485	0.0090	-2.5 to 2.5	Pass
			3.87	16.038	0.0094	-2.5 to 2.5	Pass
			4.45	15.735	0.0092	-2.5 to 2.5	Pass
		-30	3.87	15.862	0.0093	-2.5 to 2.5	Pass
		-20	3.87	15.427	0.0090	-2.5 to 2.5	Pass
		-10	3.87	15.166	0.0089	-2.5 to 2.5	Pass
		0	3.87	15.210	0.0089	-2.5 to 2.5	Pass
		10	3.87	15.961	0.0093	-2.5 to 2.5	Pass
		30	3.87	16.254	0.0095	-2.5 to 2.5	Pass
		40	3.87	16.021	0.0094	-2.5 to 2.5	Pass
		50	3.87	15.738	0.0092	-2.5 to 2.5	Pass
	1732.6	20	3.65	-3.979	-0.0023	-2.5 to 2.5	Pass
			3.87	-3.404	-0.0020	-2.5 to 2.5	Pass
			4.45	-2.799	-0.0016	-2.5 to 2.5	Pass
		-30	3.87	-3.274	-0.0019	-2.5 to 2.5	Pass
		-20	3.87	-2.970	-0.0017	-2.5 to 2.5	Pass
		-10	3.87	-2.898	-0.0017	-2.5 to 2.5	Pass
		0	3.87	-2.551	-0.0015	-2.5 to 2.5	Pass
		10	3.87	-3.892	-0.0022	-2.5 to 2.5	Pass
		30	3.87	-3.254	-0.0019	-2.5 to 2.5	Pass
		40	3.87	-3.204	-0.0018	-2.5 to 2.5	Pass
		50	3.87	-3.005	-0.0017	-2.5 to 2.5	Pass
	1752.6	20	3.65	-14.629	-0.0083	-2.5 to 2.5	Pass
			3.87	-14.734	-0.0084	-2.5 to 2.5	Pass
			4.45	-11.530	-0.0066	-2.5 to 2.5	Pass
		-30	3.87	-14.334	-0.0082	-2.5 to 2.5	Pass
		-20	3.87	-11.134	-0.0064	-2.5 to 2.5	Pass
		-10	3.87	-11.329	-0.0065	-2.5 to 2.5	Pass
		0	3.87	-14.374	-0.0082	-2.5 to 2.5	Pass
		10	3.87	-11.689	-0.0067	-2.5 to 2.5	Pass
		30	3.87	-11.481	-0.0066	-2.5 to 2.5	Pass
		40	3.87	-13.625	-0.0078	-2.5 to 2.5	Pass
		50	3.87	-10.496	-0.0060	-2.5 to 2.5	Pass

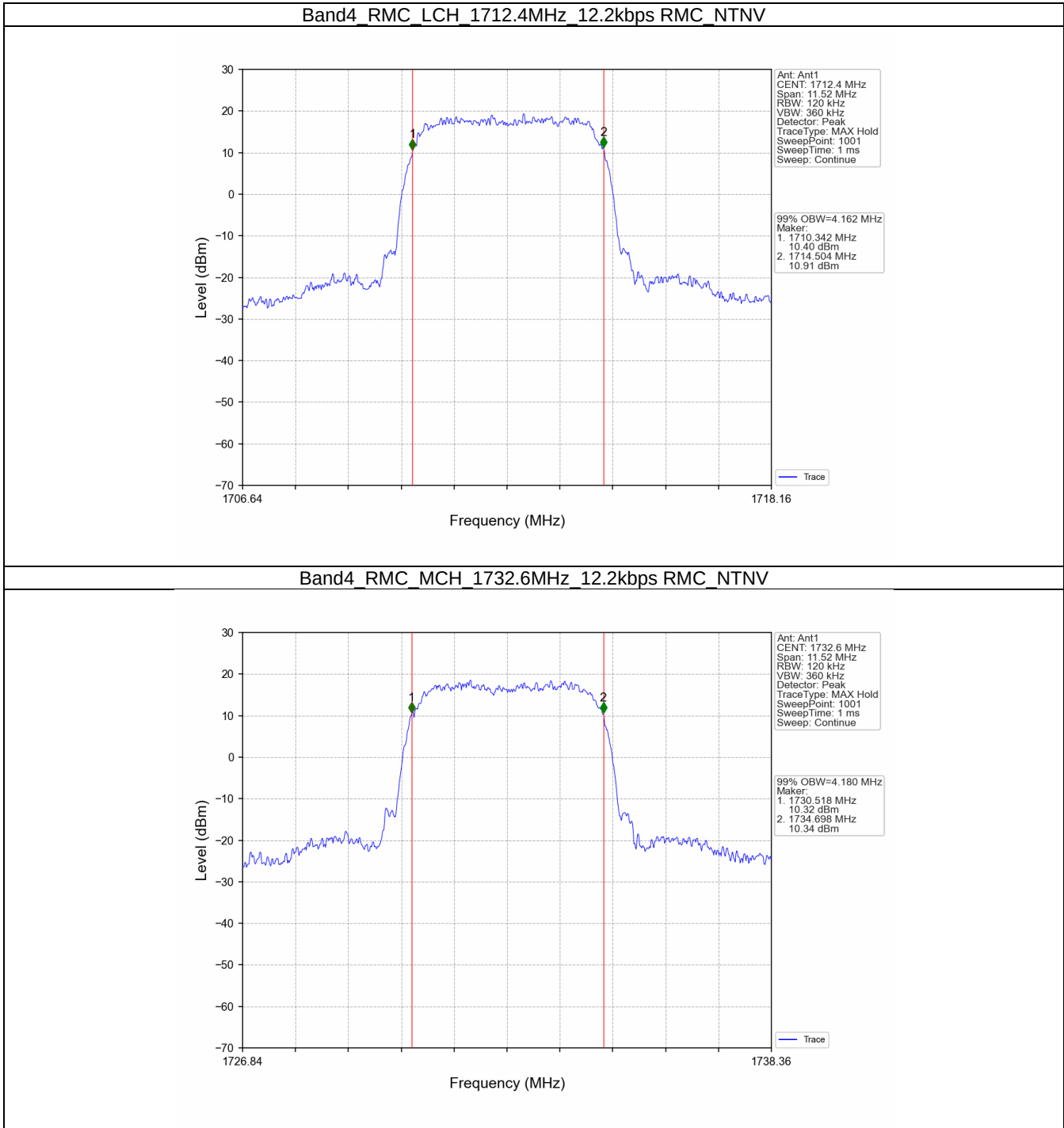
3. 99% & 26dB Bandwidth

3.1 Band4_OBW

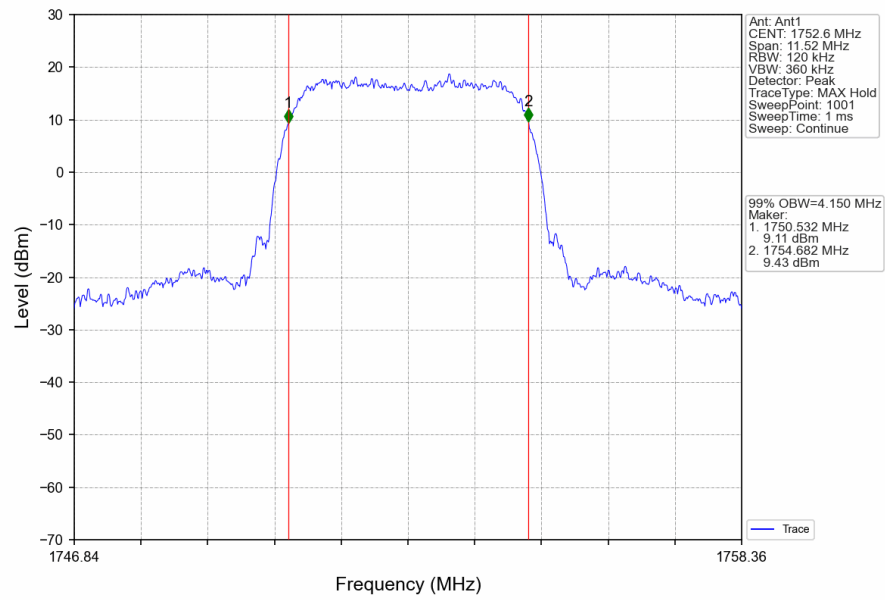
3.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.162	/	Pass
			1732.6	4.180	/	Pass
			1752.6	4.150	/	Pass
	HSDPA	Subtest 1	1712.4	4.207	/	Pass
			1732.6	4.213	/	Pass
			1752.6	4.179	/	Pass
	HSUPA	Subtest 1	1712.4	4.185	/	Pass
			1732.6	4.178	/	Pass
			1752.6	4.158	/	Pass

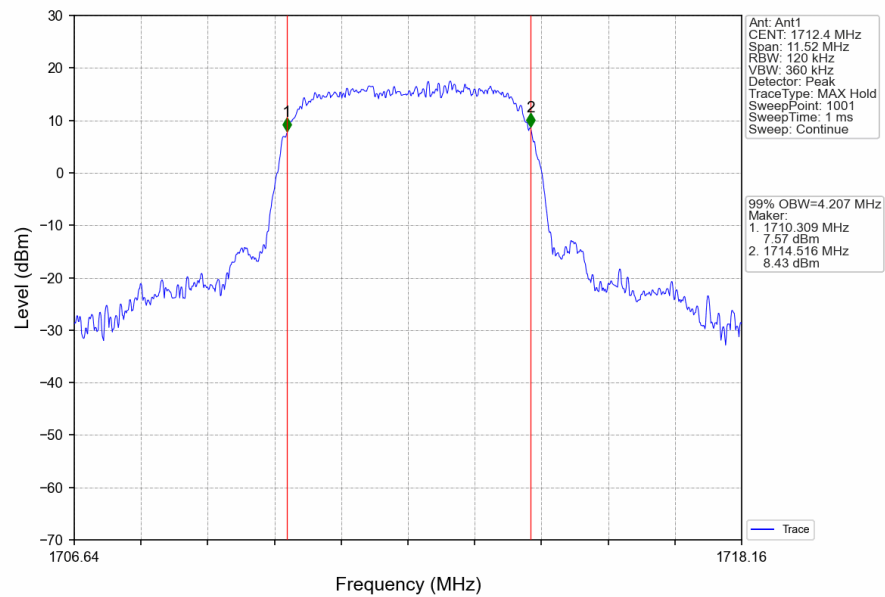
3.1.2 Test Graph



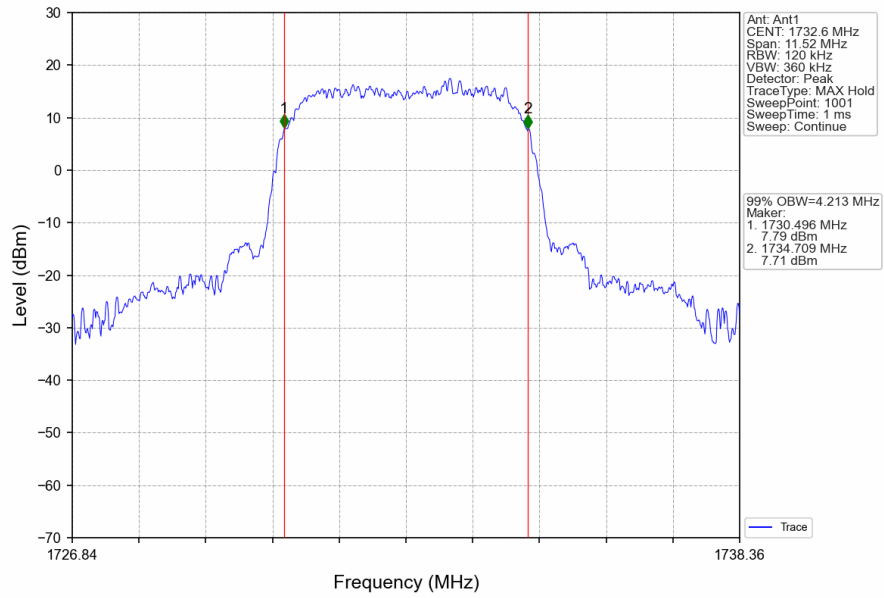
Band4_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



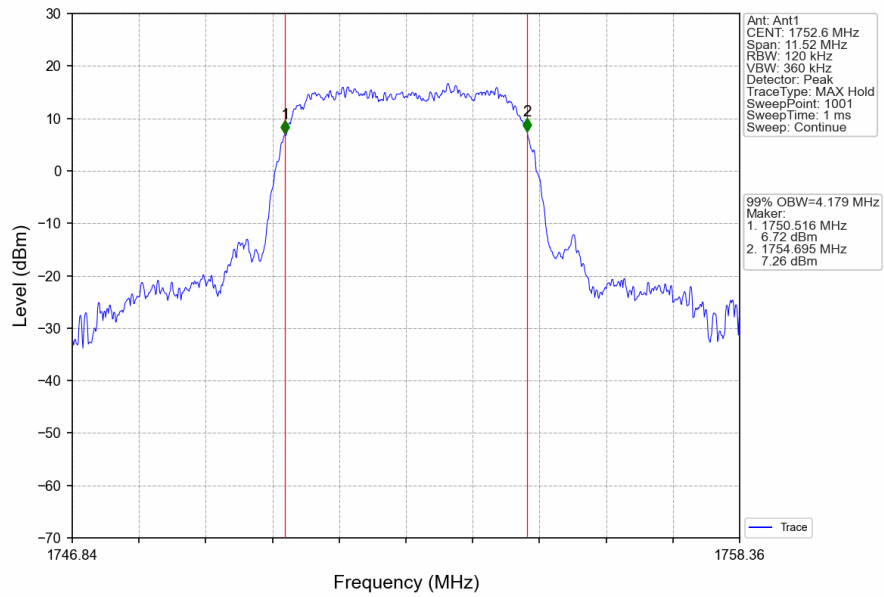
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



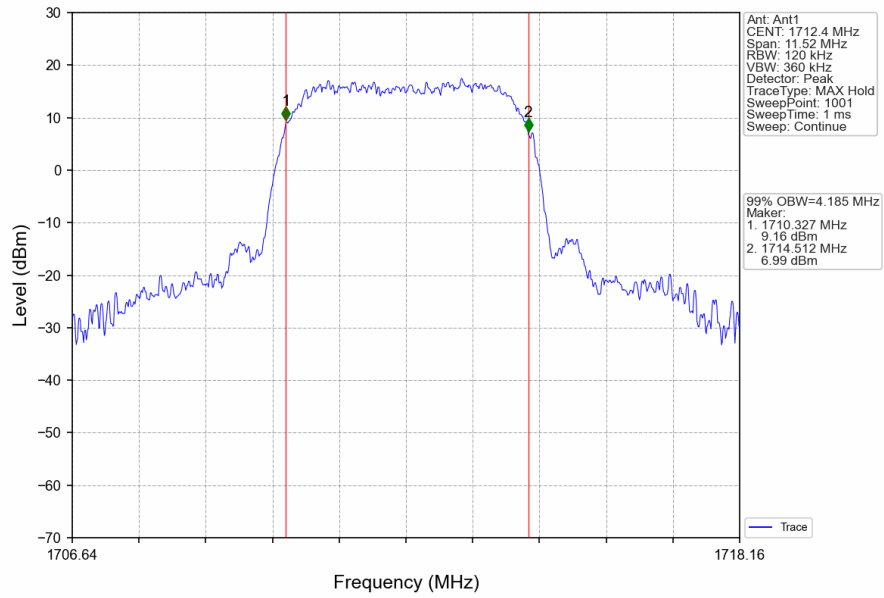
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



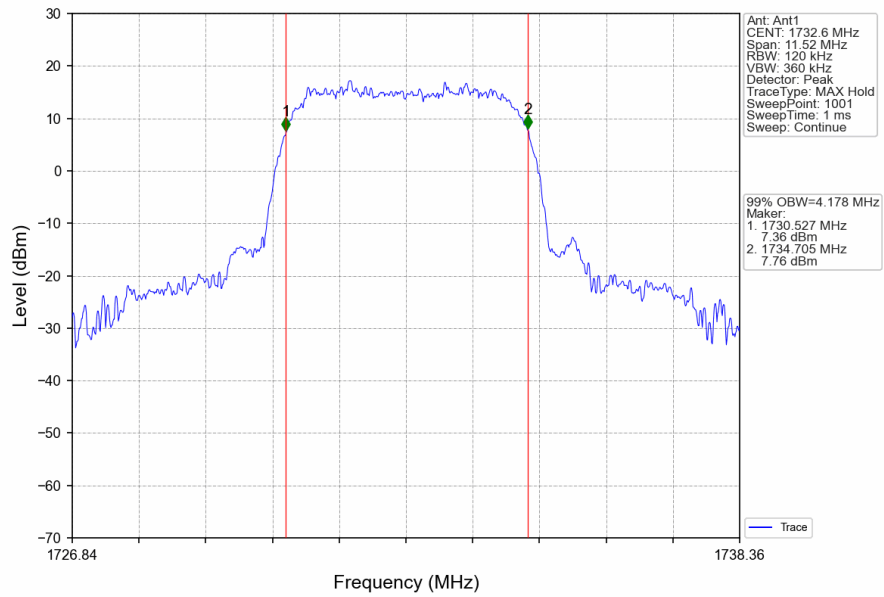
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



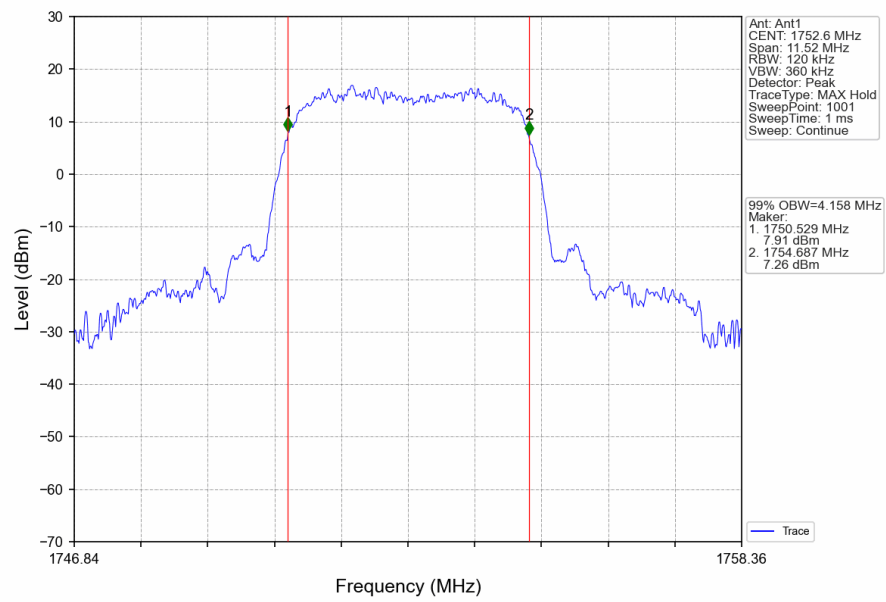
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV

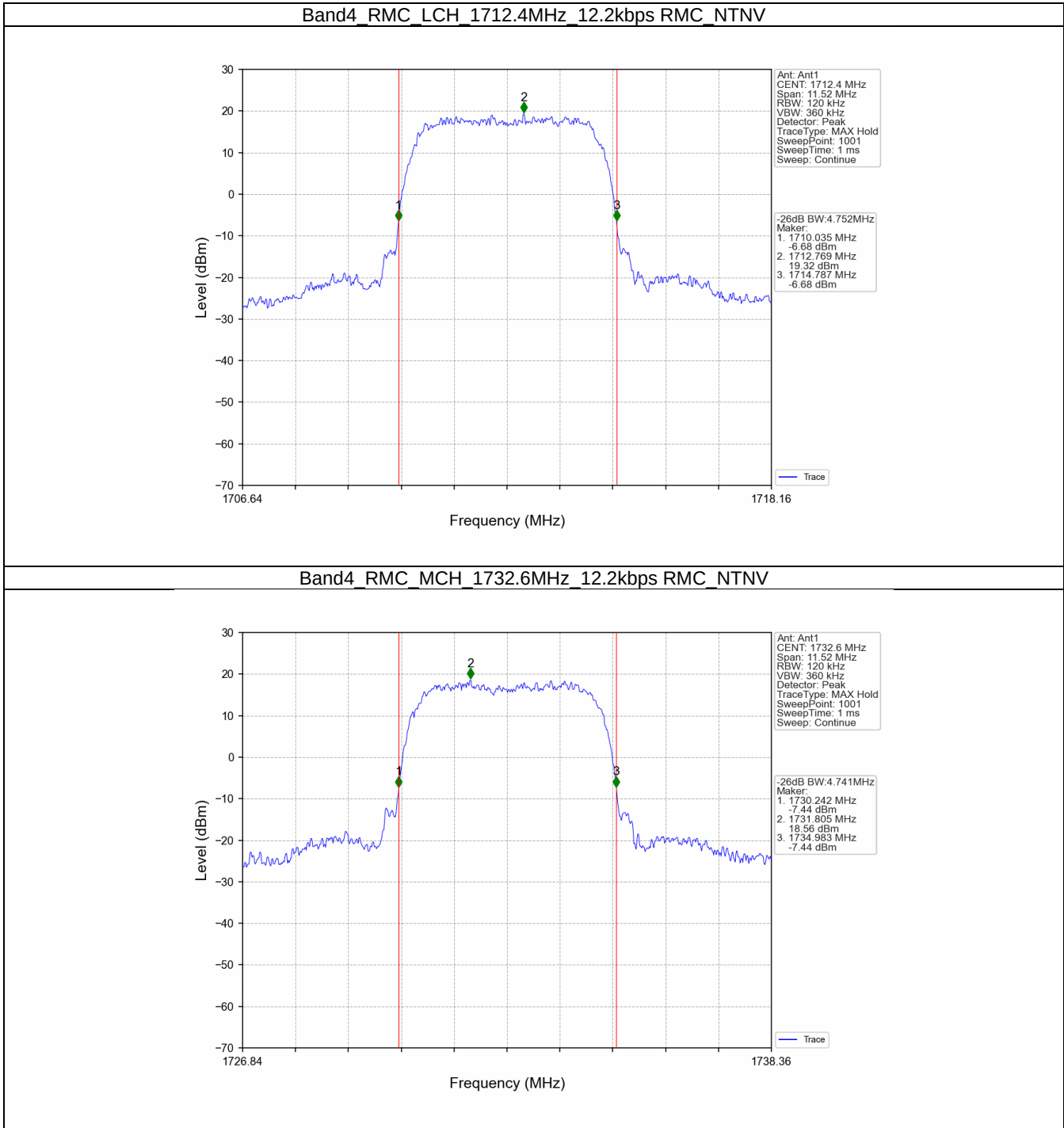


3.2 Band4_XDB

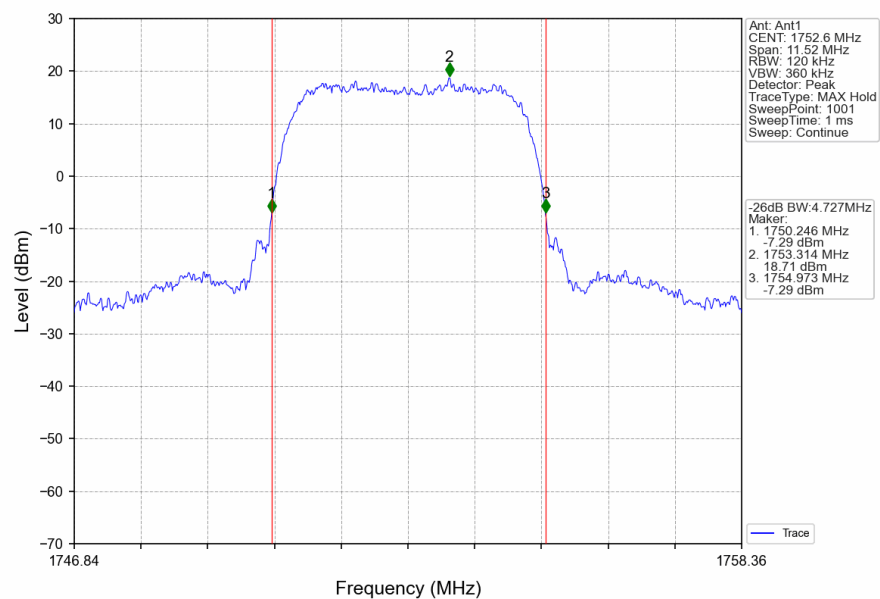
3.2.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.752	/	Pass
			1732.6	4.741	/	Pass
			1752.6	4.727	/	Pass
	HSDPA	Subtest 1	1712.4	4.795	/	Pass
			1732.6	4.770	/	Pass
			1752.6	4.790	/	Pass
	HSUPA	Subtest 1	1712.4	4.802	/	Pass
			1732.6	4.800	/	Pass
			1752.6	4.799	/	Pass

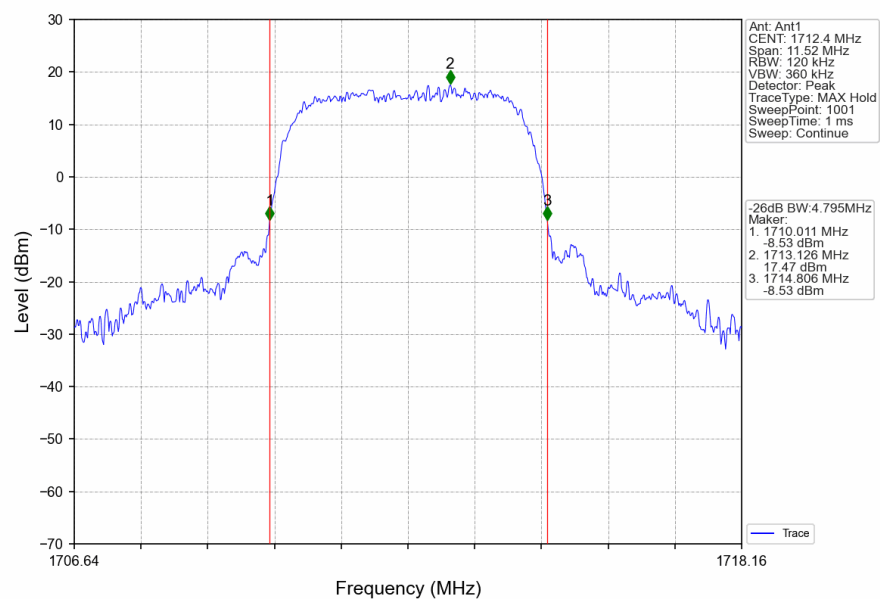
3.2.2 Test Graph



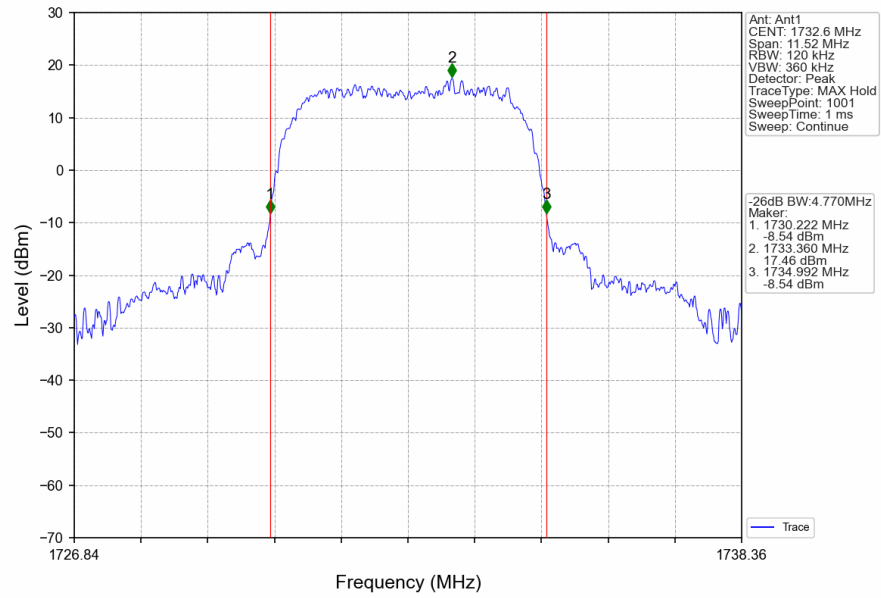
Band4_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



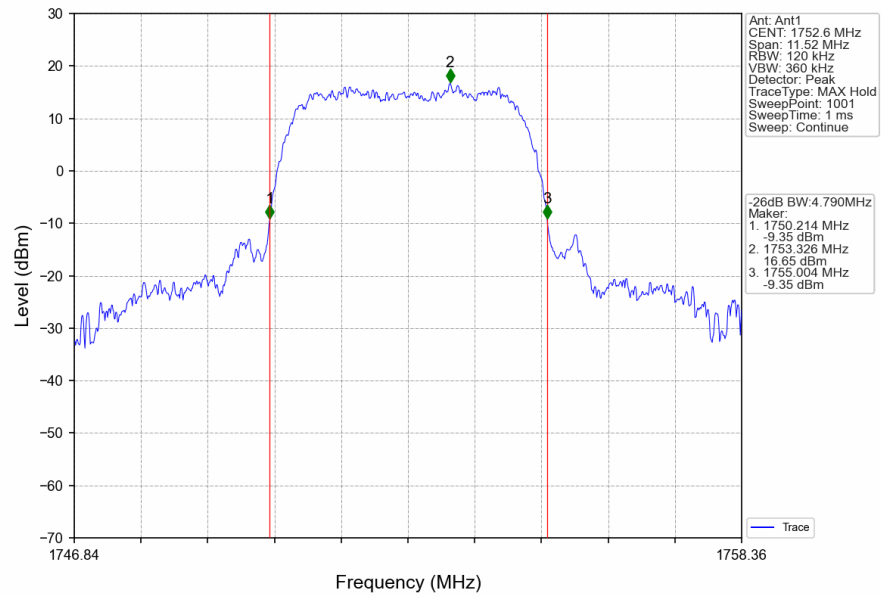
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



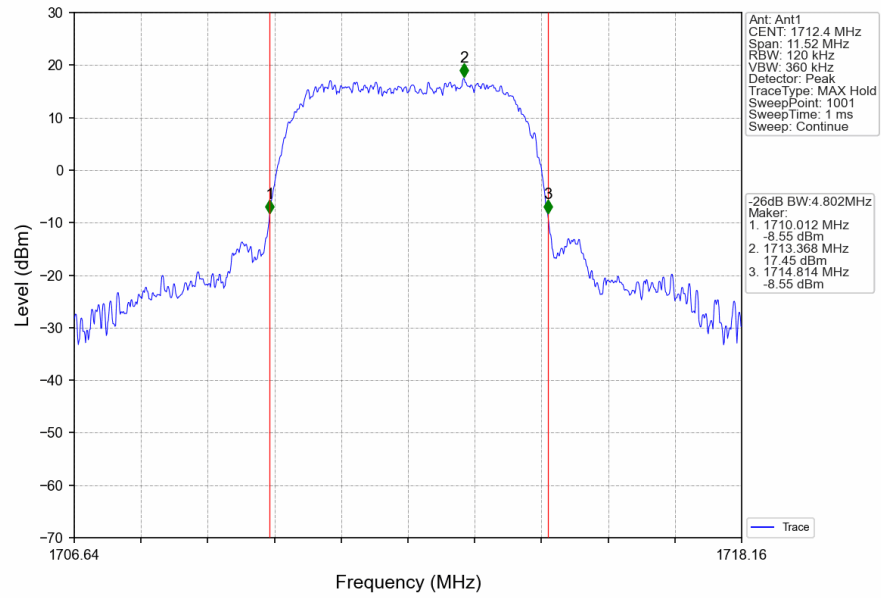
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



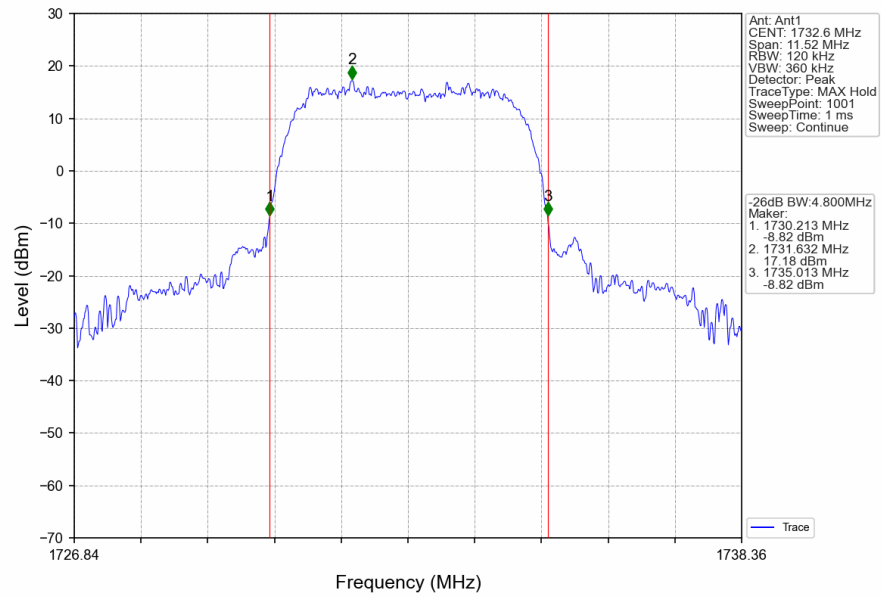
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



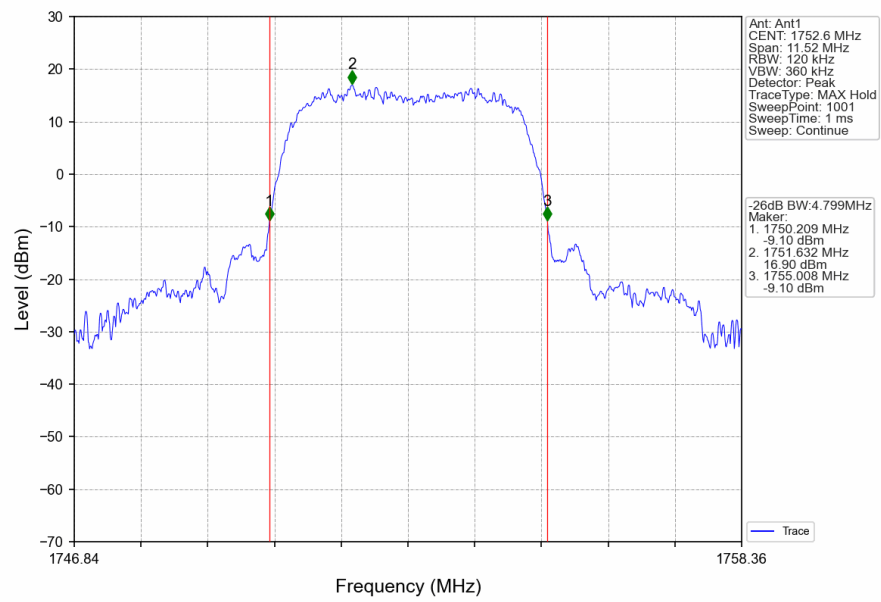
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



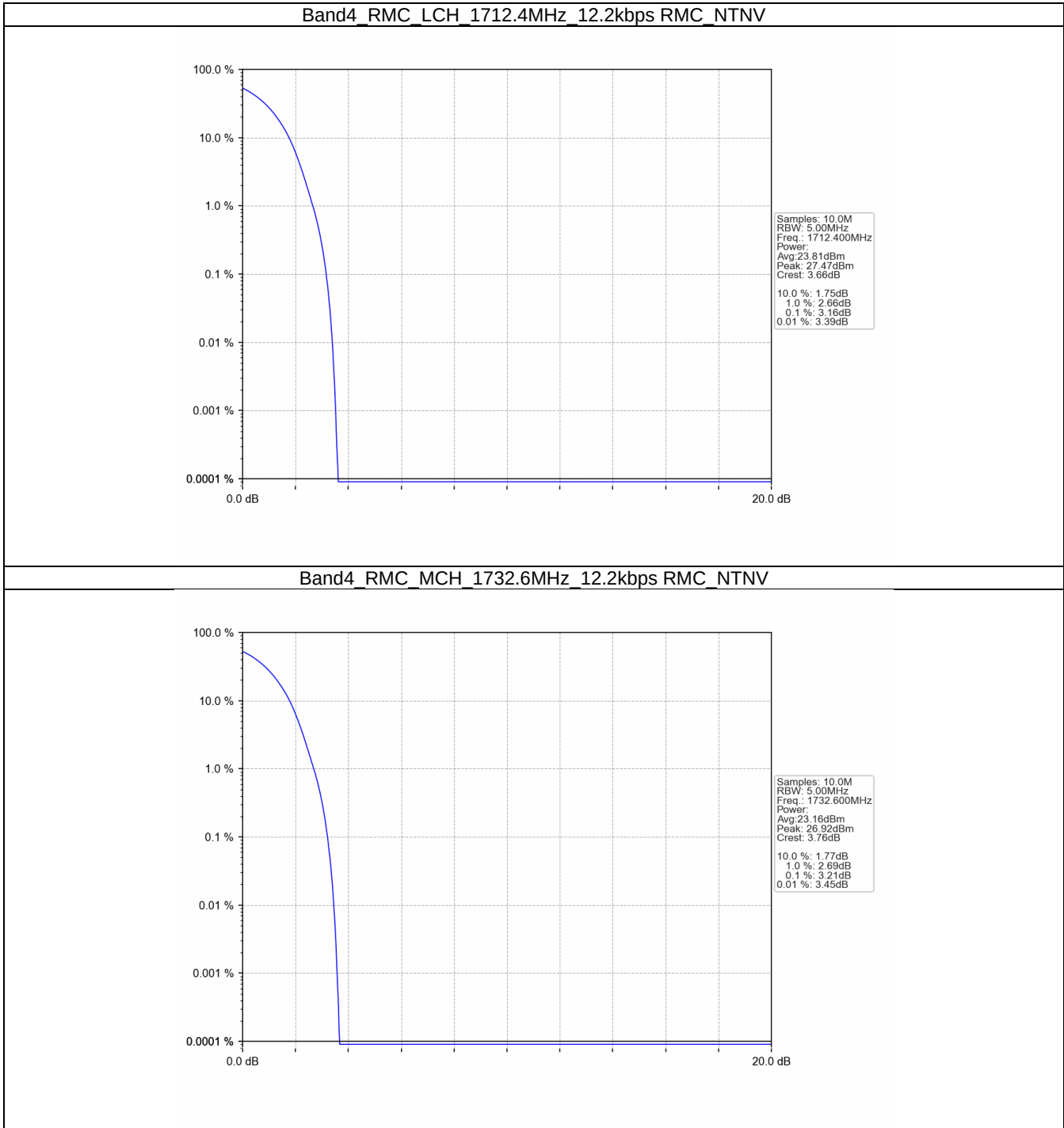
4. Peak-Average Ratio

4.1 Band4

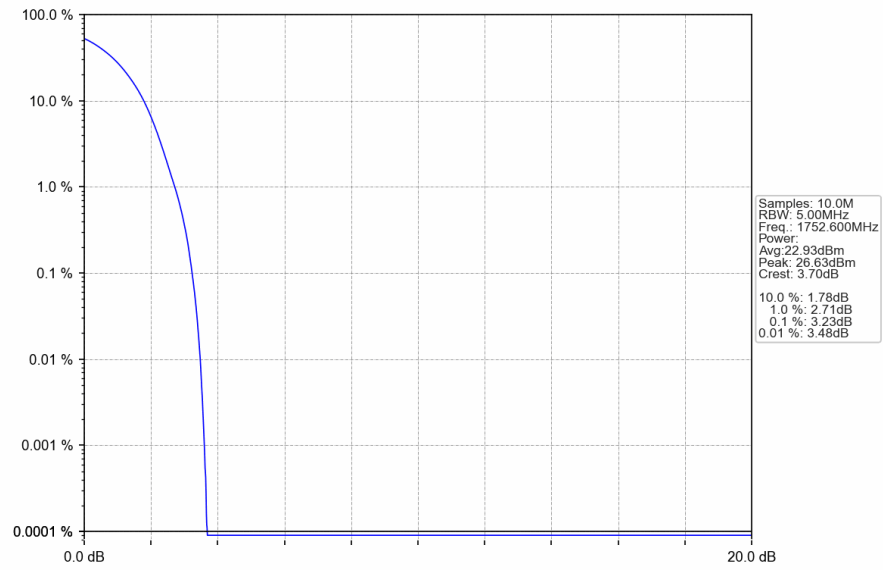
4.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.16	<=13	Pass
			1732.6	3.21	<=13	Pass
			1752.6	3.23	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.86	<=13	Pass
			1732.6	5.95	<=13	Pass
			1752.6	5.86	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.89	<=13	Pass
			1732.6	5.75	<=13	Pass
			1752.6	5.78	<=13	Pass

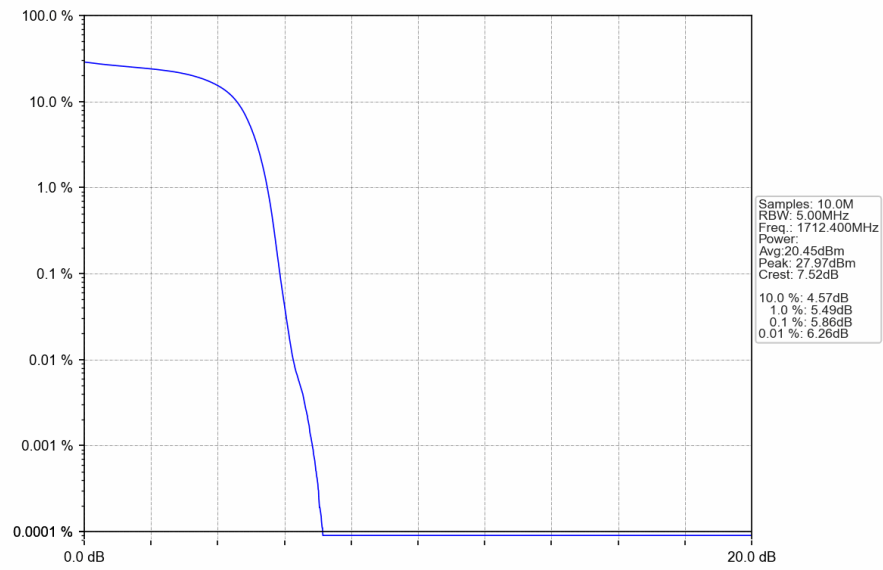
4.1.2 Test Graph



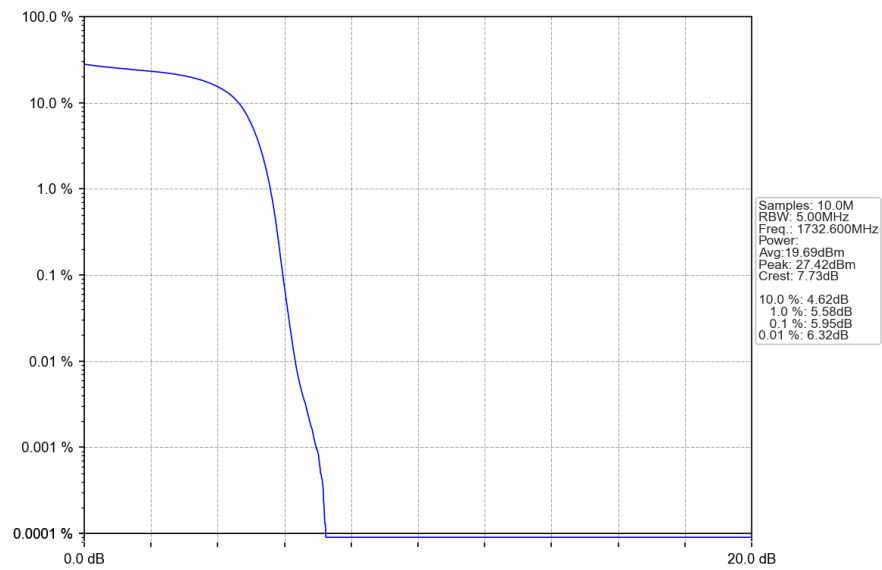
Band4_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



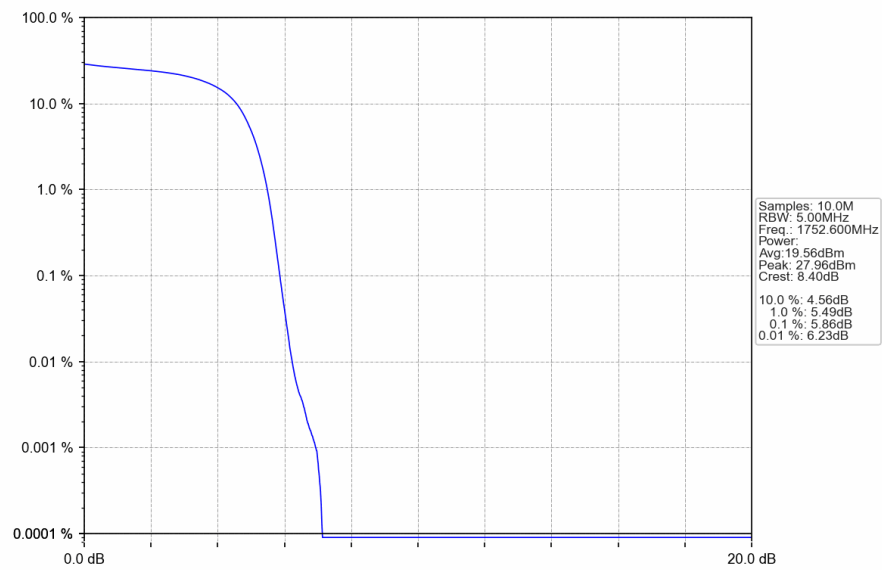
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



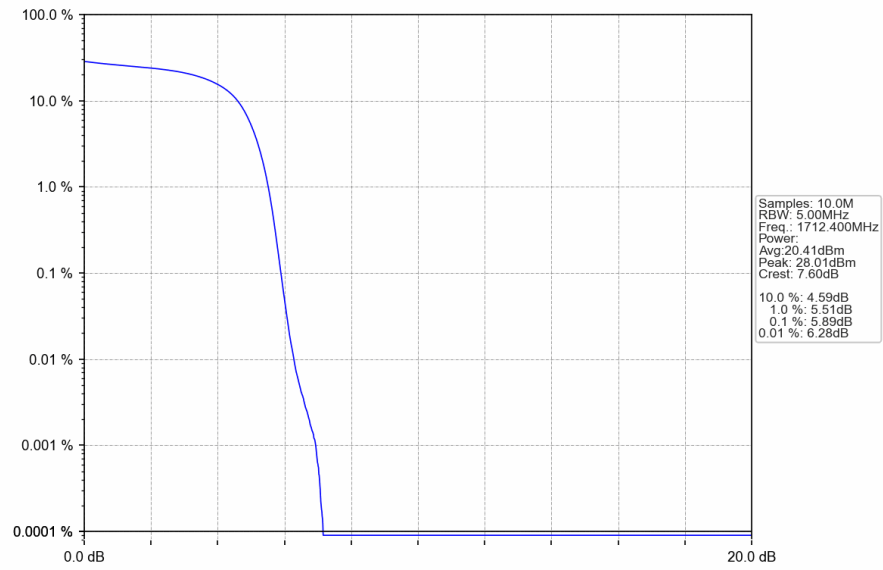
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



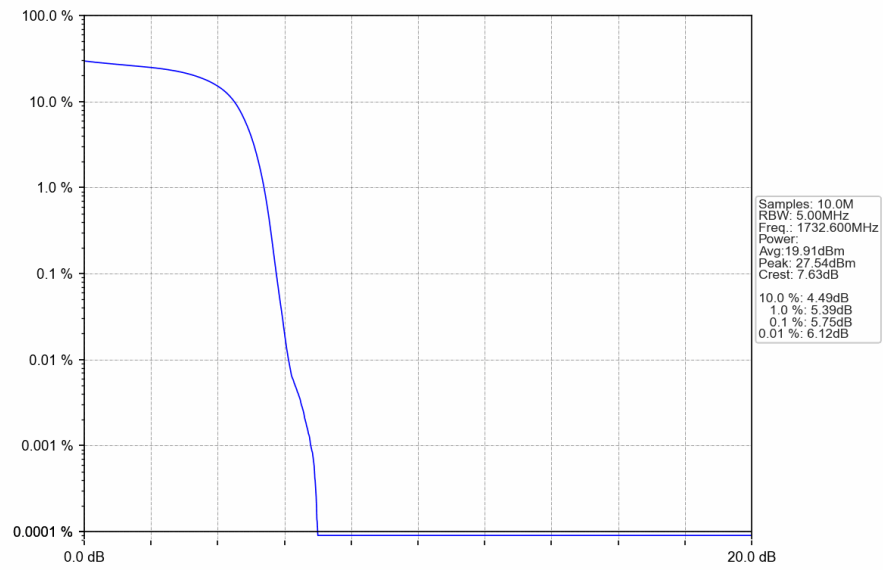
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



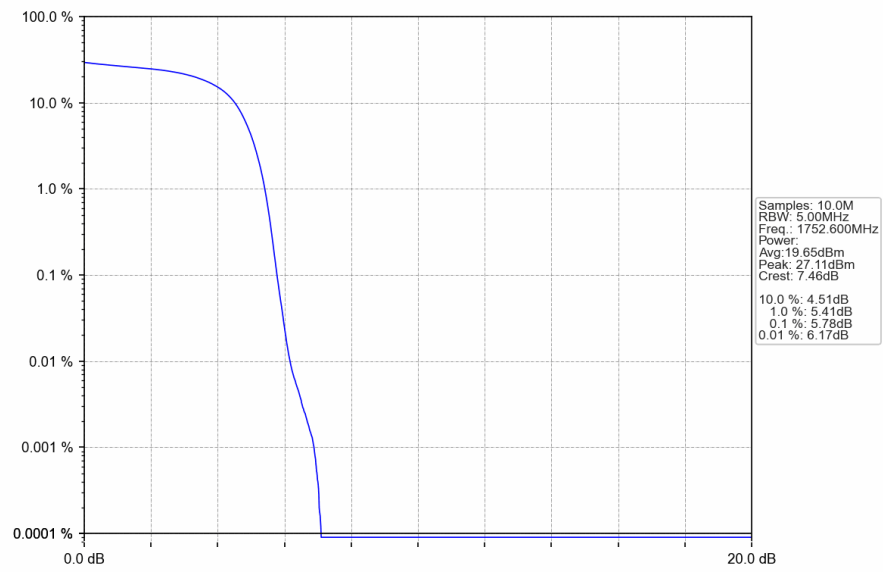
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



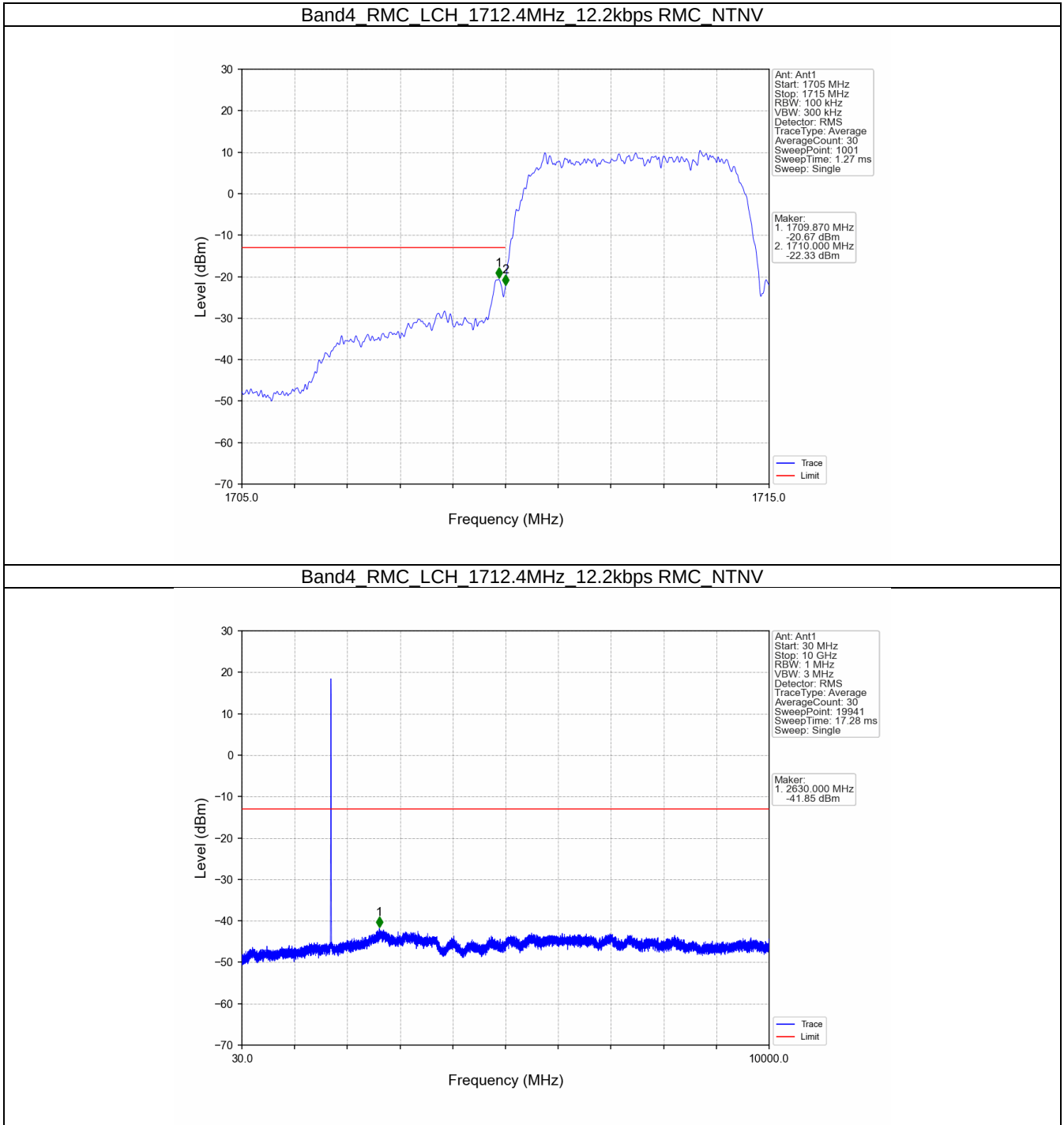
5. Spurious Emission

5.1 Band4

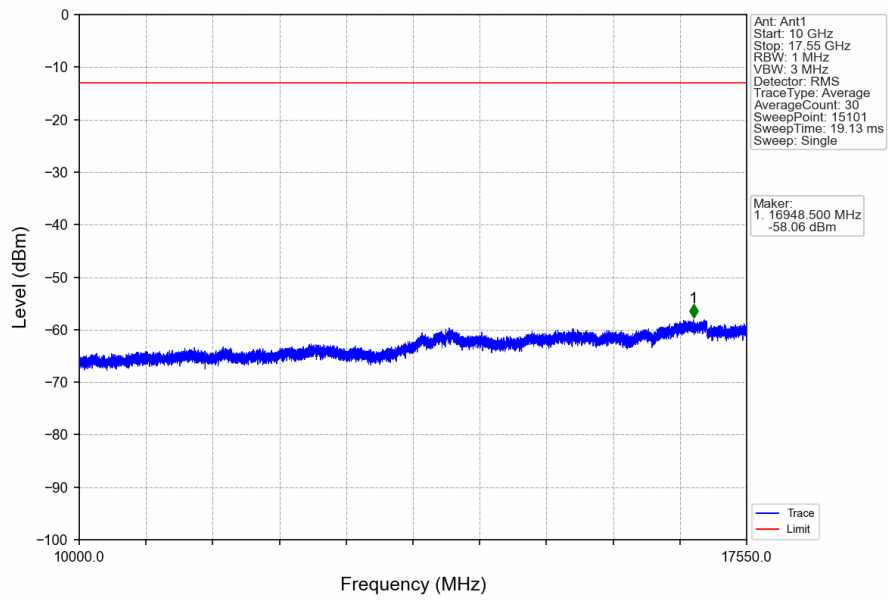
5.1.1 Test Result

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	

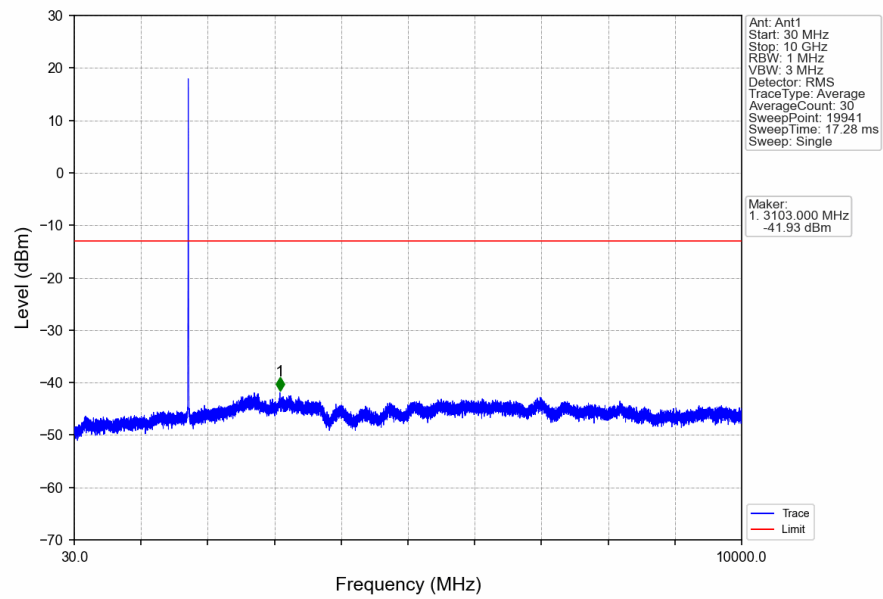
5.1.2 Test Graph



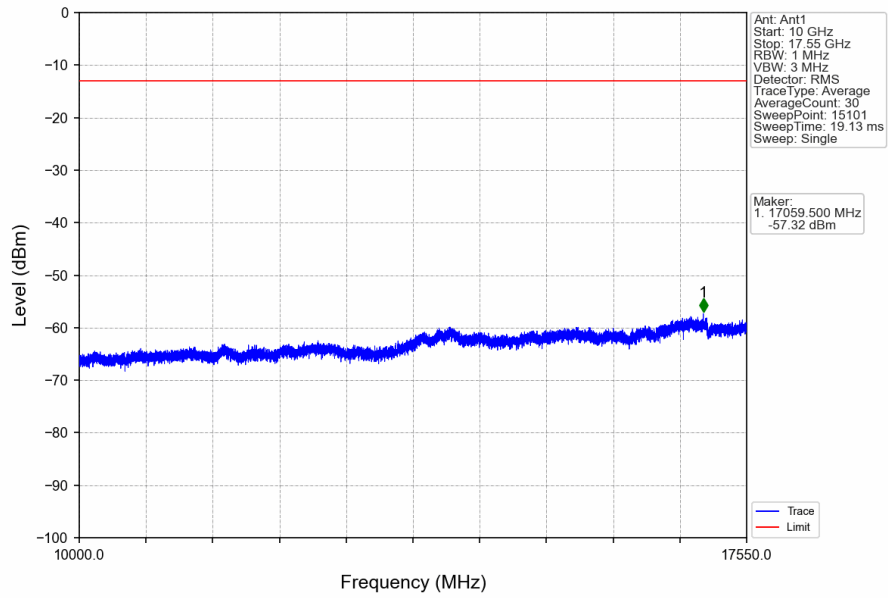
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



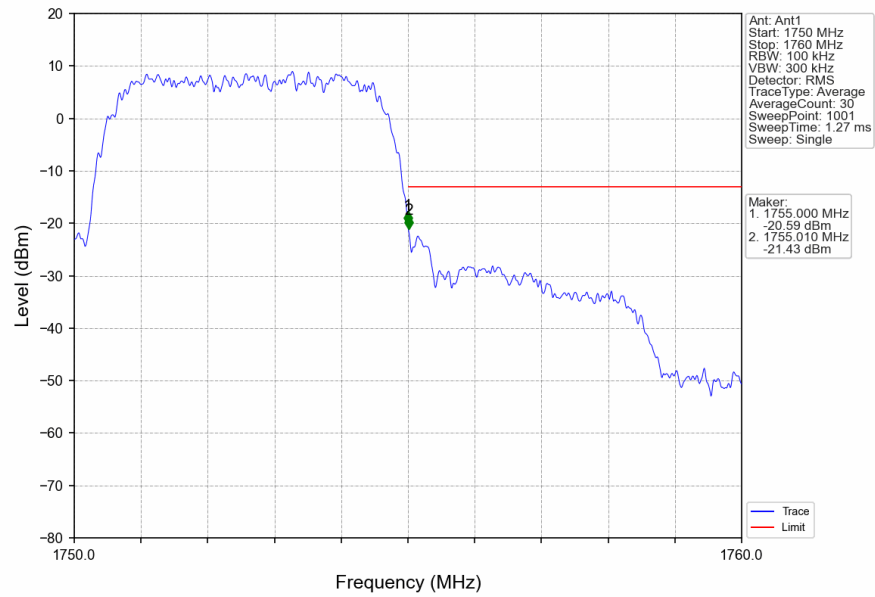
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



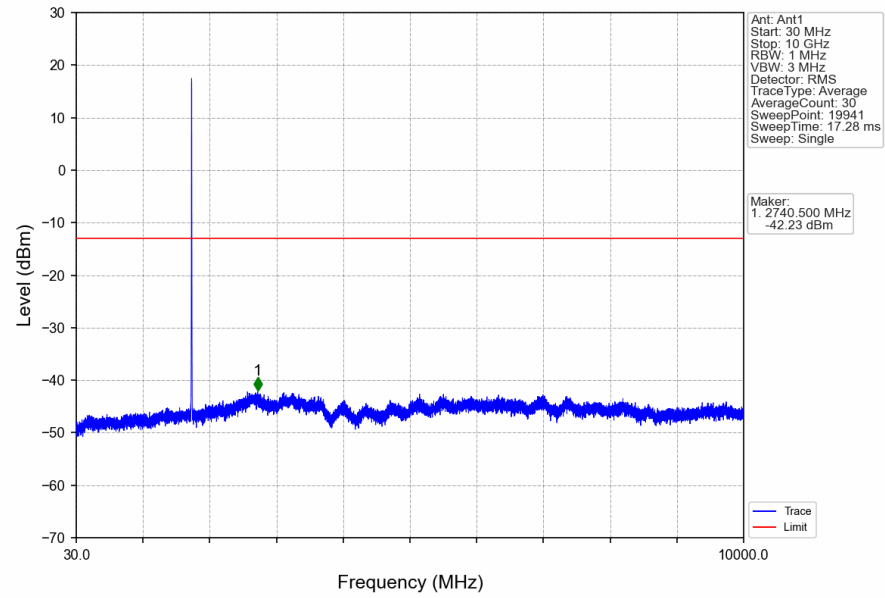
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



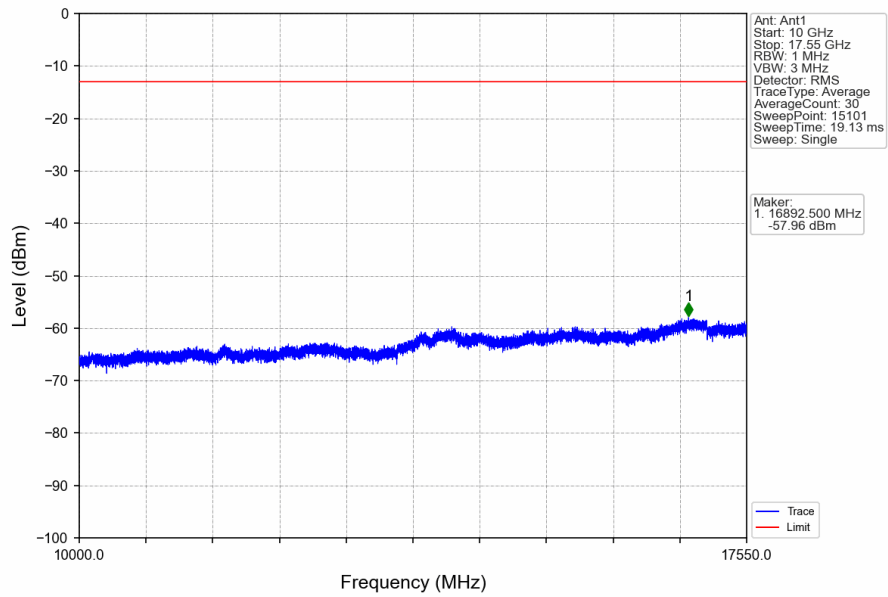
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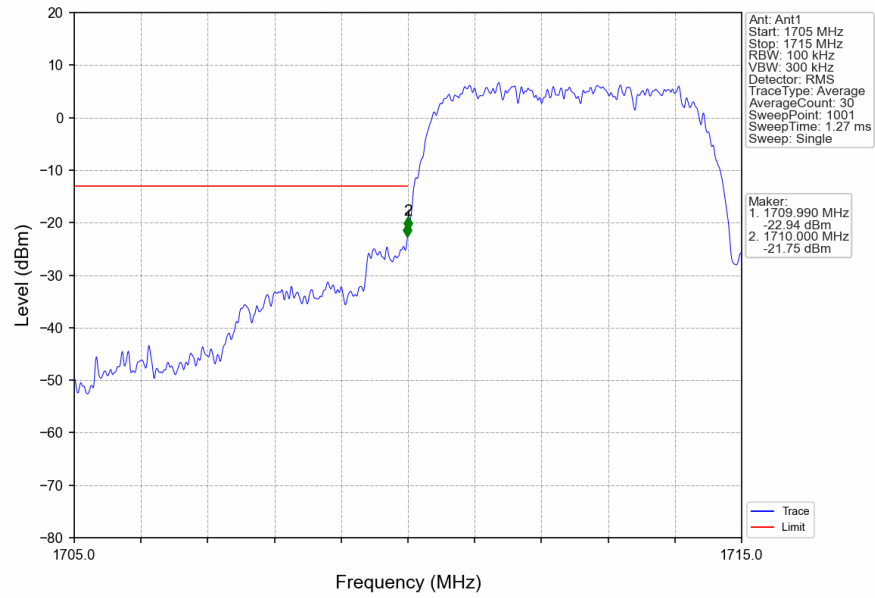
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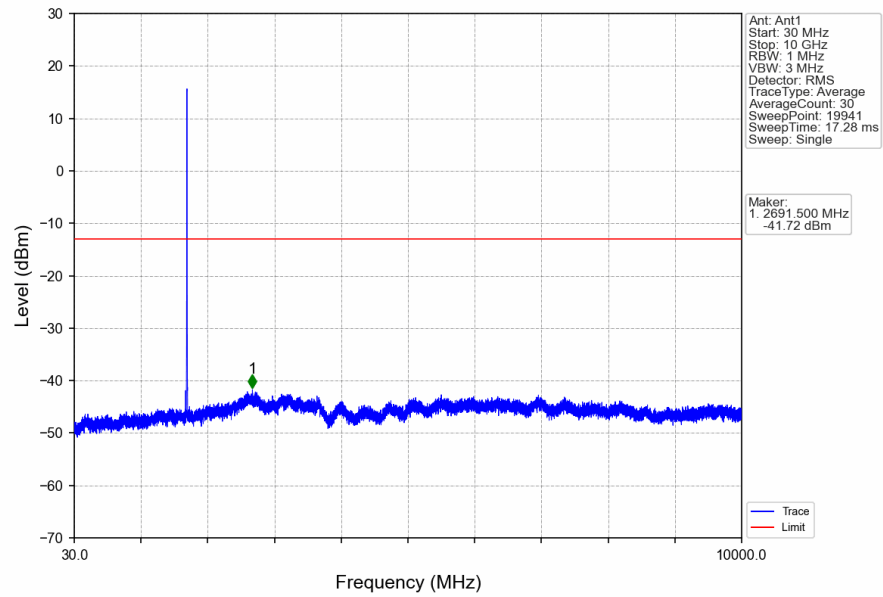
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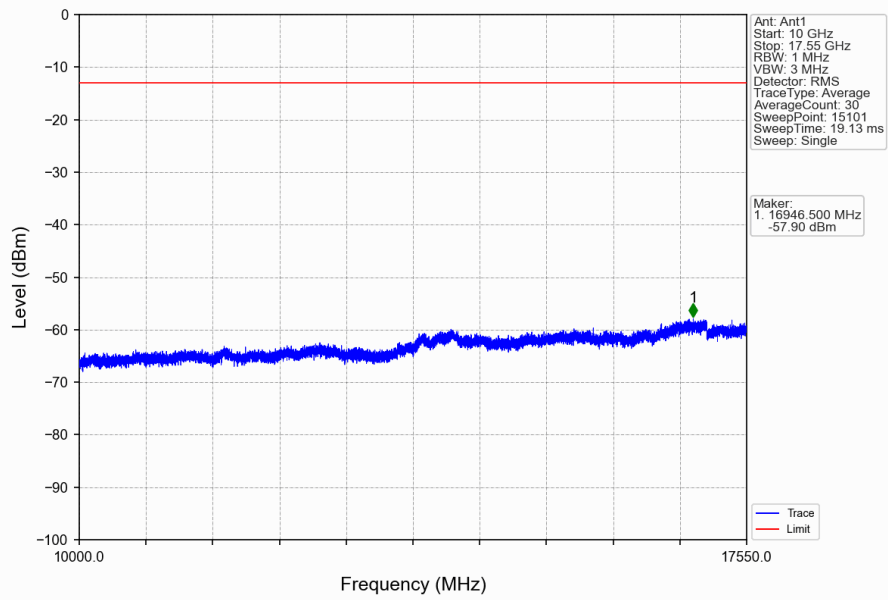
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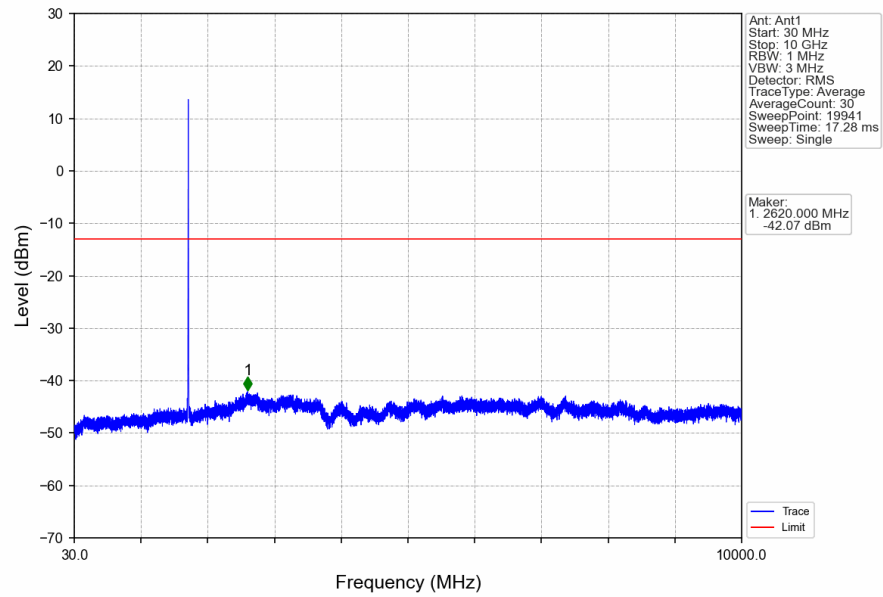
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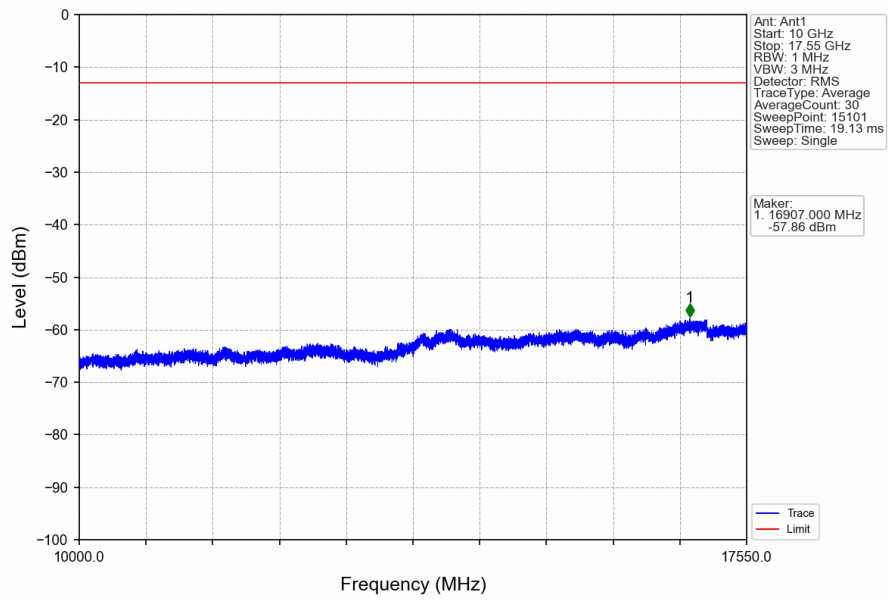
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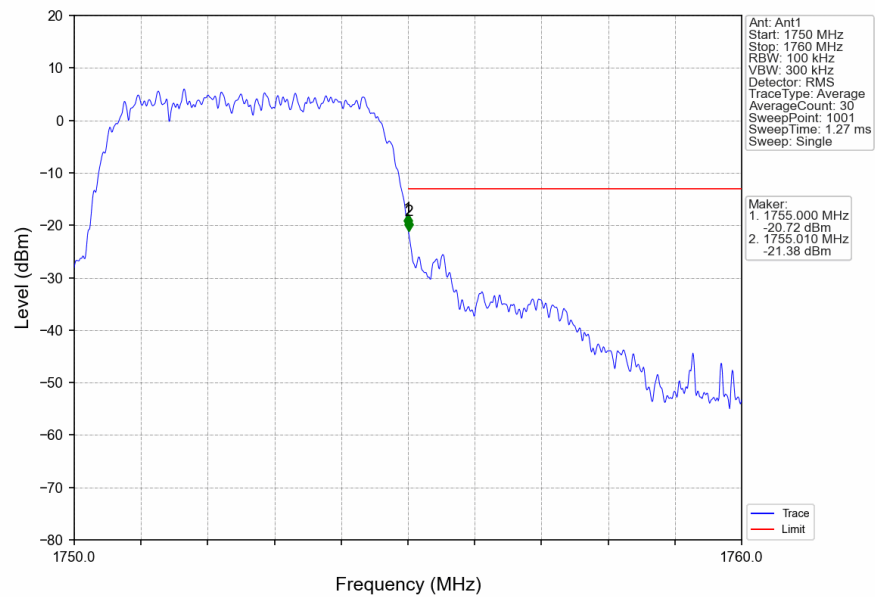
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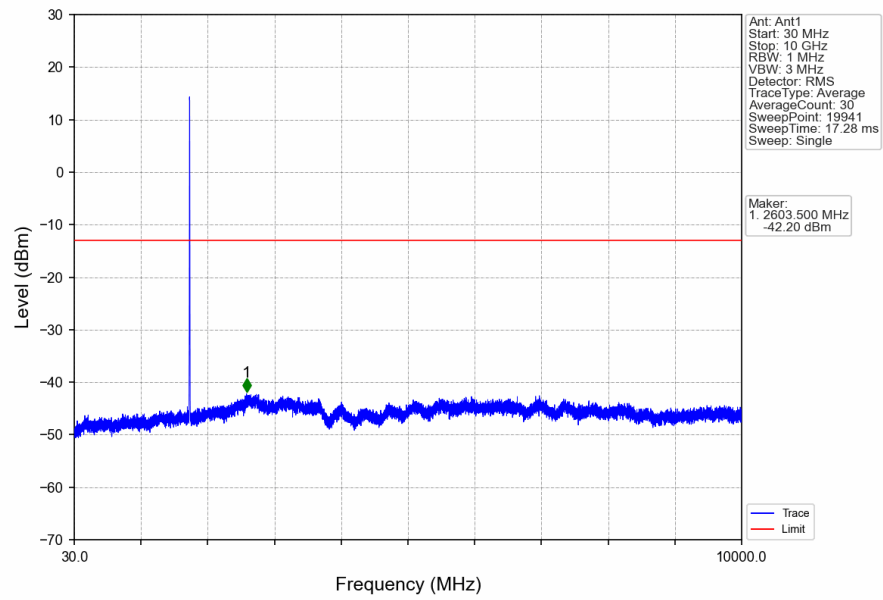
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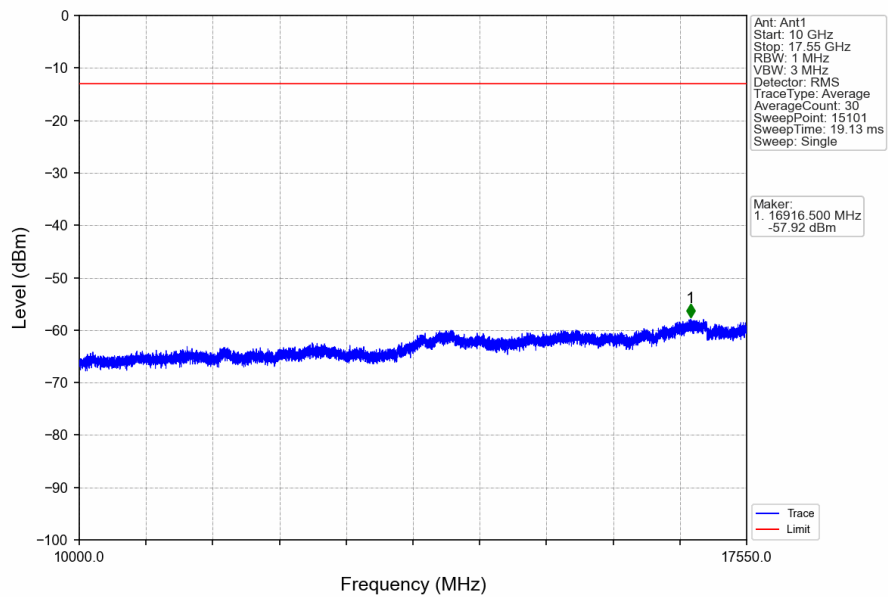
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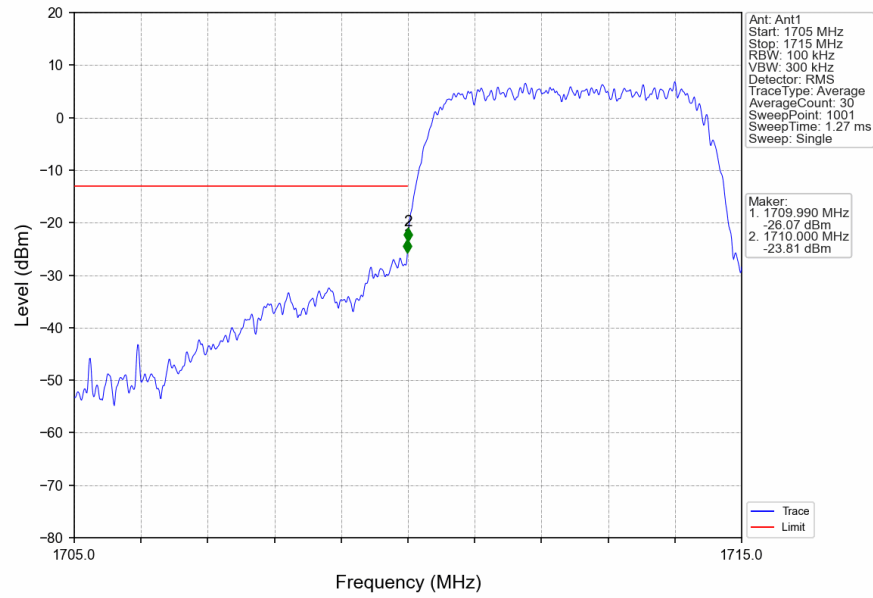
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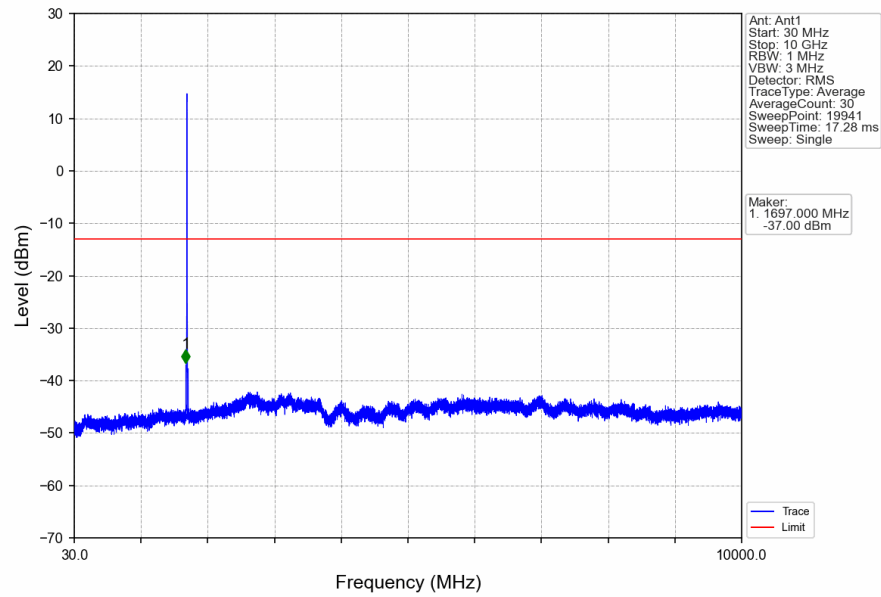
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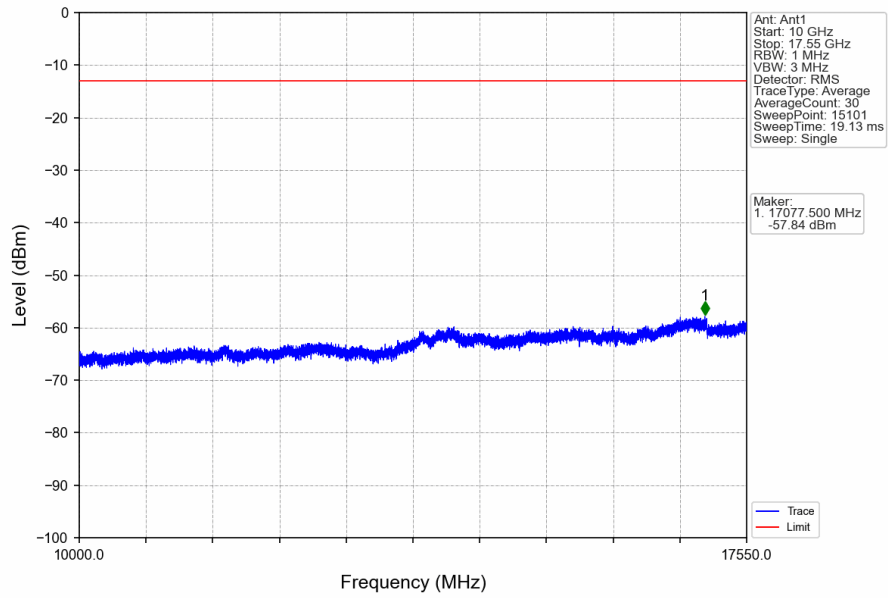
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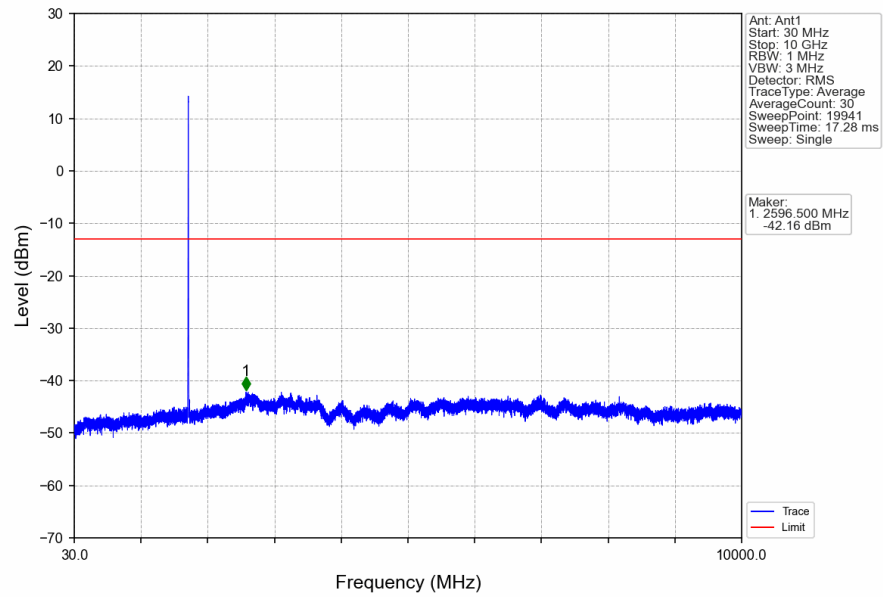
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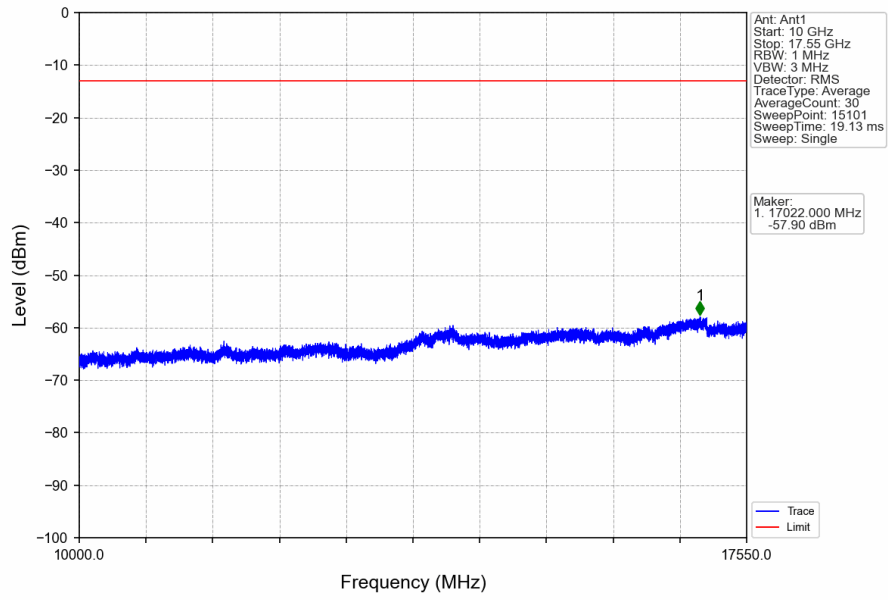
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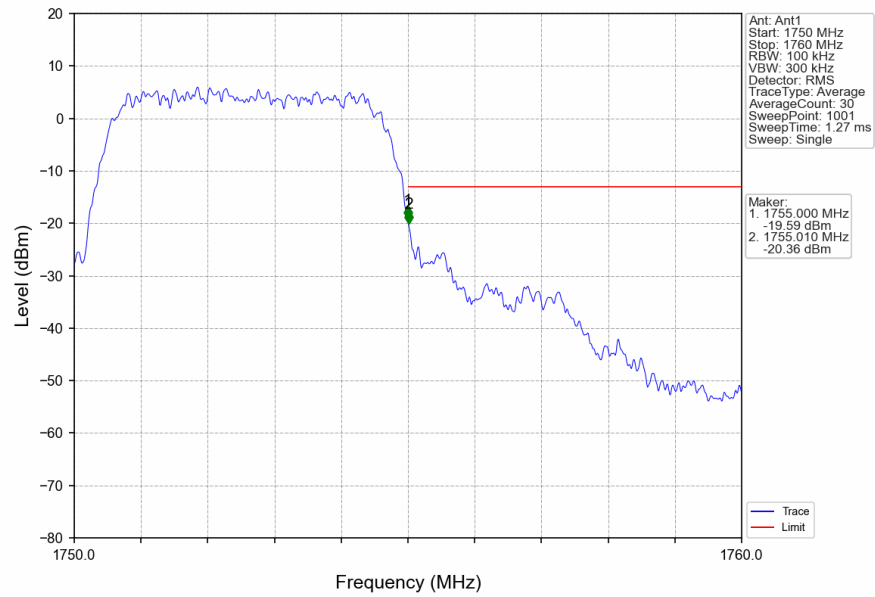
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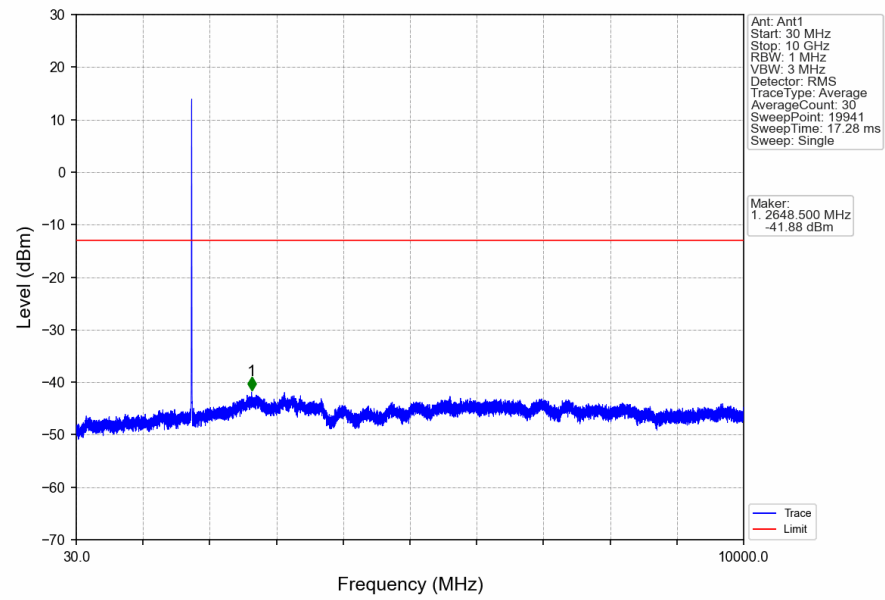
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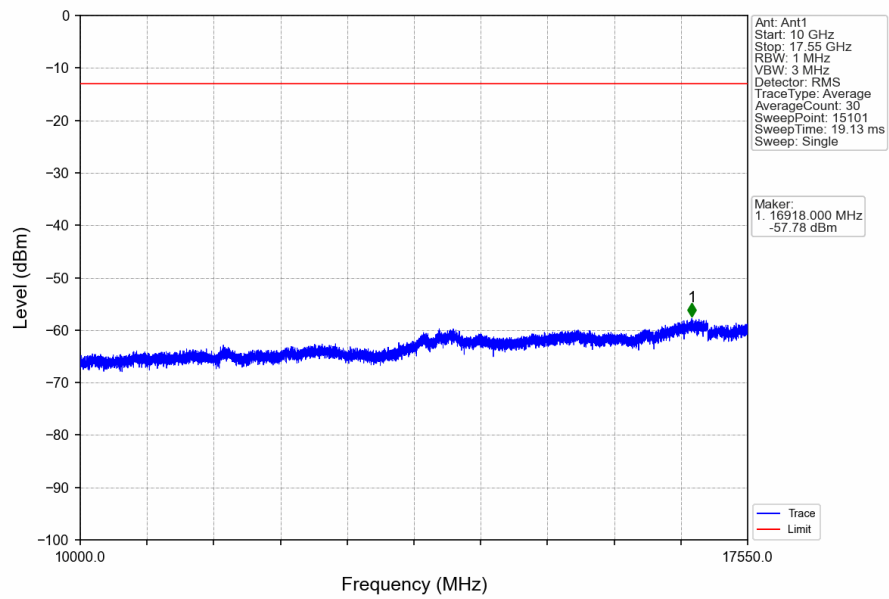
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



6. Field Strength of Spurious Radiation

WCDMA Band 4-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	-66.3	-13	-53.3	-70.92	3.36	7.98	Horizontal	Pass
5137.2	-54.31	-13	-41.31	-59.93	4.61	10.23	Horizontal	Pass
6849.6	-60.83	-13	-47.83	-66.87	4.9	10.94	Horizontal	Pass
3424.8	-66.17	-13	-53.17	-70.79	3.36	7.98	Vertical	Pass
5137.2	-56.91	-13	-43.91	-62.53	4.61	10.23	Vertical	Pass
6849.6	-60.84	-13	-47.84	-66.88	4.9	10.94	Vertical	Pass

WCDMA Band 4-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	-66.49	-13	-53.49	-71.19	3.38	8.08	Horizontal	Pass
5197.8	-55.07	-13	-42.07	-60.7	4.63	10.26	Horizontal	Pass
6930.4	-60.06	-13	-47.06	-66.19	4.91	11.04	Horizontal	Pass
3465.2	-66.26	-13	-53.26	-70.96	3.38	8.08	Vertical	Pass
5197.8	-62.28	-13	-49.28	-67.91	4.63	10.26	Vertical	Pass
6930.4	-60.25	-13	-47.25	-66.38	4.91	11.04	Vertical	Pass

WCDMA Band 4-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	-66.54	-13	-53.54	-71.32	3.4	8.18	Horizontal	Pass
5257.8	-63.07	-13	-50.07	-68.72	4.65	10.3	Horizontal	Pass
7010.4	-60.74	-13	-47.74	-66.96	4.92	11.14	Horizontal	Pass
3505.2	-66.3	-13	-53.3	-71.08	3.4	8.18	Vertical	Pass
5257.8	-63.2	-13	-50.2	-68.85	4.65	10.3	Vertical	Pass
7010.4	-60.57	-13	-47.57	-66.79	4.92	11.14	Vertical	Pass