

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	20.80	1.11	21.91	<=30	Pass			
			1732.6	21.03	1.11	22.14	<=30	Pass			
			1752.6	21.09	1.11	22.20	<=30	Pass			
	HSDPA		Subtest 1	1712.4	18.47	1.11	19.58	<=30	Pass		
			Subtest 2	1712.4	18.49	1.11	19.60	<=30	Pass		
			Subtest 3	1712.4	18.46	1.11	19.57	<=30	Pass		
			Subtest 4	1712.4	18.48	1.11	19.59	<=30	Pass		
			Subtest 1	1732.6	18.70	1.11	19.81	<=30	Pass		
			Subtest 2	1732.6	18.69	1.11	19.80	<=30	Pass		
			Subtest 3	1732.6	18.69	1.11	19.80	<=30	Pass		
			Subtest 4	1732.6	18.70	1.11	19.81	<=30	Pass		
			Subtest 1	1752.6	18.78	1.11	19.89	<=30	Pass		
			Subtest 2	1752.6	18.77	1.11	19.88	<=30	Pass		
			Subtest 3	1752.6	18.75	1.11	19.86	<=30	Pass		
			Subtest 4	1752.6	18.76	1.11	19.87	<=30	Pass		
			HSUPA		Subtest 1	1712.4	16.51	1.11	17.62	<=30	Pass
					Subtest 2	1712.4	16.35	1.11	17.46	<=30	Pass
					Subtest 3	1712.4	16.53	1.11	17.64	<=30	Pass
					Subtest 4	1712.4	16.33	1.11	17.44	<=30	Pass
					Subtest 5	1712.4	16.52	1.11	17.63	<=30	Pass
	Subtest 1	1732.6			16.56	1.11	17.67	<=30	Pass		
	Subtest 2	1732.6			16.79	1.11	17.90	<=30	Pass		
	Subtest 3	1732.6			16.80	1.11	17.91	<=30	Pass		
	Subtest 4	1732.6			16.79	1.11	17.90	<=30	Pass		
	Subtest 5	1732.6			16.56	1.11	17.67	<=30	Pass		
	Subtest 1	1752.6			16.84	1.11	17.95	<=30	Pass		
	Subtest 2	1752.6			16.84	1.11	17.95	<=30	Pass		
	Subtest 3	1752.6			16.65	1.11	17.76	<=30	Pass		
	Subtest 4	1752.6	16.60	1.11	17.71	<=30	Pass				
	Subtest 5	1752.6	16.32	1.11	17.43	<=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	3.27	-14.341	-0.0084	-2.5 to 2.5	Pass
			3.85	-10.421	-0.0061	-2.5 to 2.5	Pass

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			4.43	-11.401	-0.0067	-2.5 to 2.5	Pass		
		-30	3.85	-13.061	-0.0076	-2.5 to 2.5	Pass		
		-20	3.85	-15.492	-0.0090	-2.5 to 2.5	Pass		
		-10	3.85	-12.023	-0.0070	-2.5 to 2.5	Pass		
		0	3.85	-11.108	-0.0065	-2.5 to 2.5	Pass		
		10	3.85	-7.968	-0.0047	-2.5 to 2.5	Pass		
		30	3.85	-13.604	-0.0079	-2.5 to 2.5	Pass		
		40	3.85	-12.367	-0.0072	-2.5 to 2.5	Pass		
		50	3.85	-15.457	-0.0090	-2.5 to 2.5	Pass		
	1732.6	20		3.27	-11.094	-0.0064	-2.5 to 2.5	Pass	
				3.85	-13.311	-0.0077	-2.5 to 2.5	Pass	
				4.43	-13.468	-0.0078	-2.5 to 2.5	Pass	
			-30	3.85	-14.920	-0.0086	-2.5 to 2.5	Pass	
			-20	3.85	-10.006	-0.0058	-2.5 to 2.5	Pass	
			-10	3.85	-15.385	-0.0089	-2.5 to 2.5	Pass	
			0	3.85	-13.604	-0.0079	-2.5 to 2.5	Pass	
			10	3.85	-12.989	-0.0075	-2.5 to 2.5	Pass	
			30	3.85	-9.549	-0.0055	-2.5 to 2.5	Pass	
	1752.6	20		3.27	-10.135	-0.0058	-2.5 to 2.5	Pass	
				3.85	-8.705	-0.0050	-2.5 to 2.5	Pass	
				4.43	-9.427	-0.0054	-2.5 to 2.5	Pass	
			-30	3.85	-9.706	-0.0055	-2.5 to 2.5	Pass	
			-20	3.85	-11.473	-0.0065	-2.5 to 2.5	Pass	
			-10	3.85	-9.856	-0.0056	-2.5 to 2.5	Pass	
			0	3.85	-12.910	-0.0074	-2.5 to 2.5	Pass	
			10	3.85	-9.999	-0.0057	-2.5 to 2.5	Pass	
			30	3.85	-13.232	-0.0075	-2.5 to 2.5	Pass	
	HSDPA	1712.4	20		3.27	-14.641	-0.0085	-2.5 to 2.5	Pass
					3.85	-15.149	-0.0088	-2.5 to 2.5	Pass
					4.43	-14.262	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-13.397	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-14.999	-0.0088	-2.5 to 2.5	Pass
				-10	3.85	-17.195	-0.0100	-2.5 to 2.5	Pass
			0	3.85	-12.202	-0.0071	-2.5 to 2.5	Pass	
			10	3.85	-13.540	-0.0079	-2.5 to 2.5	Pass	
			30	3.85	-14.834	-0.0087	-2.5 to 2.5	Pass	
1732.6		20		3.27	-9.978	-0.0058	-2.5 to 2.5	Pass	
				3.85	-12.932	-0.0075	-2.5 to 2.5	Pass	
				4.43	-11.687	-0.0067	-2.5 to 2.5	Pass	
			-30	3.85	-16.129	-0.0093	-2.5 to 2.5	Pass	
			-20	3.85	-10.157	-0.0059	-2.5 to 2.5	Pass	
			-10	3.85	-13.018	-0.0075	-2.5 to 2.5	Pass	
			0	3.85	-11.086	-0.0064	-2.5 to 2.5	Pass	
			10	3.85	-13.518	-0.0078	-2.5 to 2.5	Pass	
			30	3.85	-12.002	-0.0069	-2.5 to 2.5	Pass	
1752.6		20		3.27	-11.644	-0.0066	-2.5 to 2.5	Pass	
				3.85	-12.596	-0.0072	-2.5 to 2.5	Pass	
				4.43	-10.943	-0.0062	-2.5 to 2.5	Pass	
			-30	3.85	-9.820	-0.0056	-2.5 to 2.5	Pass	

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		-20	3.85	-17.610	-0.0100	-2.5 to 2.5	Pass	
		-10	3.85	-12.288	-0.0070	-2.5 to 2.5	Pass	
		0	3.85	-16.265	-0.0093	-2.5 to 2.5	Pass	
		10	3.85	-15.013	-0.0086	-2.5 to 2.5	Pass	
		30	3.85	-16.844	-0.0096	-2.5 to 2.5	Pass	
		40	3.85	-16.479	-0.0094	-2.5 to 2.5	Pass	
		50	3.85	-10.815	-0.0062	-2.5 to 2.5	Pass	
HSUPA	1712.4	20	3.27	-15.357	-0.0090	-2.5 to 2.5	Pass	
			3.85	-15.285	-0.0089	-2.5 to 2.5	Pass	
			4.43	-13.025	-0.0076	-2.5 to 2.5	Pass	
		-30	3.85	-16.115	-0.0094	-2.5 to 2.5	Pass	
		-20	3.85	-16.344	-0.0095	-2.5 to 2.5	Pass	
		-10	3.85	-12.982	-0.0076	-2.5 to 2.5	Pass	
		0	3.85	-13.447	-0.0079	-2.5 to 2.5	Pass	
		10	3.85	-17.567	-0.0103	-2.5 to 2.5	Pass	
		30	3.85	-14.935	-0.0087	-2.5 to 2.5	Pass	
		40	3.85	-12.782	-0.0075	-2.5 to 2.5	Pass	
		50	3.85	-12.424	-0.0073	-2.5 to 2.5	Pass	
		1732.6	20	3.27	-16.365	-0.0094	-2.5 to 2.5	Pass
				3.85	-16.444	-0.0095	-2.5 to 2.5	Pass
				4.43	-14.677	-0.0085	-2.5 to 2.5	Pass
	-30		3.85	-16.851	-0.0097	-2.5 to 2.5	Pass	
	-20		3.85	-16.859	-0.0097	-2.5 to 2.5	Pass	
	-10		3.85	-19.670	-0.0114	-2.5 to 2.5	Pass	
	0		3.85	-15.593	-0.0090	-2.5 to 2.5	Pass	
	10		3.85	-13.611	-0.0079	-2.5 to 2.5	Pass	
	30		3.85	-15.364	-0.0089	-2.5 to 2.5	Pass	
	40		3.85	-14.026	-0.0081	-2.5 to 2.5	Pass	
	1752.6	20	3.27	-10.951	-0.0062	-2.5 to 2.5	Pass	
			3.85	-11.959	-0.0068	-2.5 to 2.5	Pass	
			4.43	-10.128	-0.0058	-2.5 to 2.5	Pass	
		-30	3.85	-11.137	-0.0064	-2.5 to 2.5	Pass	
		-20	3.85	-11.809	-0.0067	-2.5 to 2.5	Pass	
		-10	3.85	-10.464	-0.0060	-2.5 to 2.5	Pass	
		0	3.85	-11.716	-0.0067	-2.5 to 2.5	Pass	
		10	3.85	-10.664	-0.0061	-2.5 to 2.5	Pass	
		30	3.85	-11.122	-0.0063	-2.5 to 2.5	Pass	
		40	3.85	-15.342	-0.0088	-2.5 to 2.5	Pass	
	50	3.85	-11.215	-0.0064	-2.5 to 2.5	Pass		

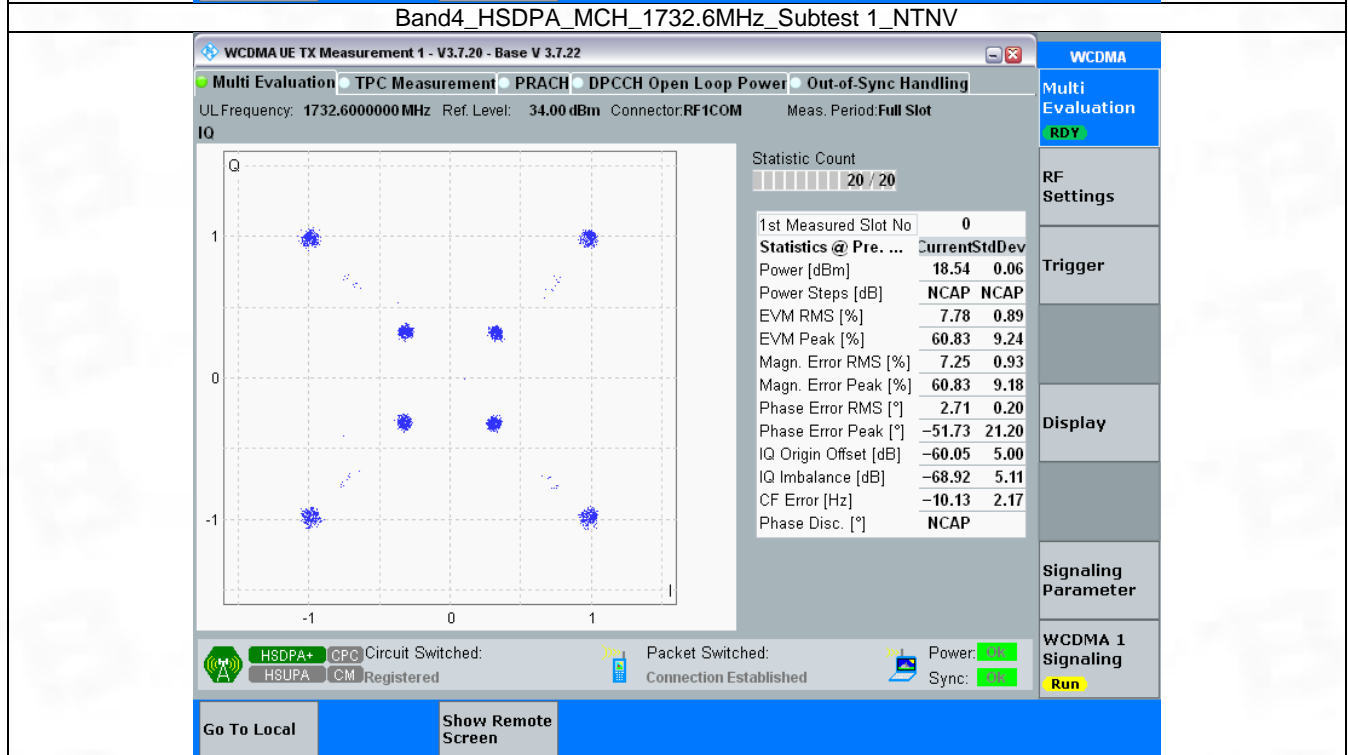
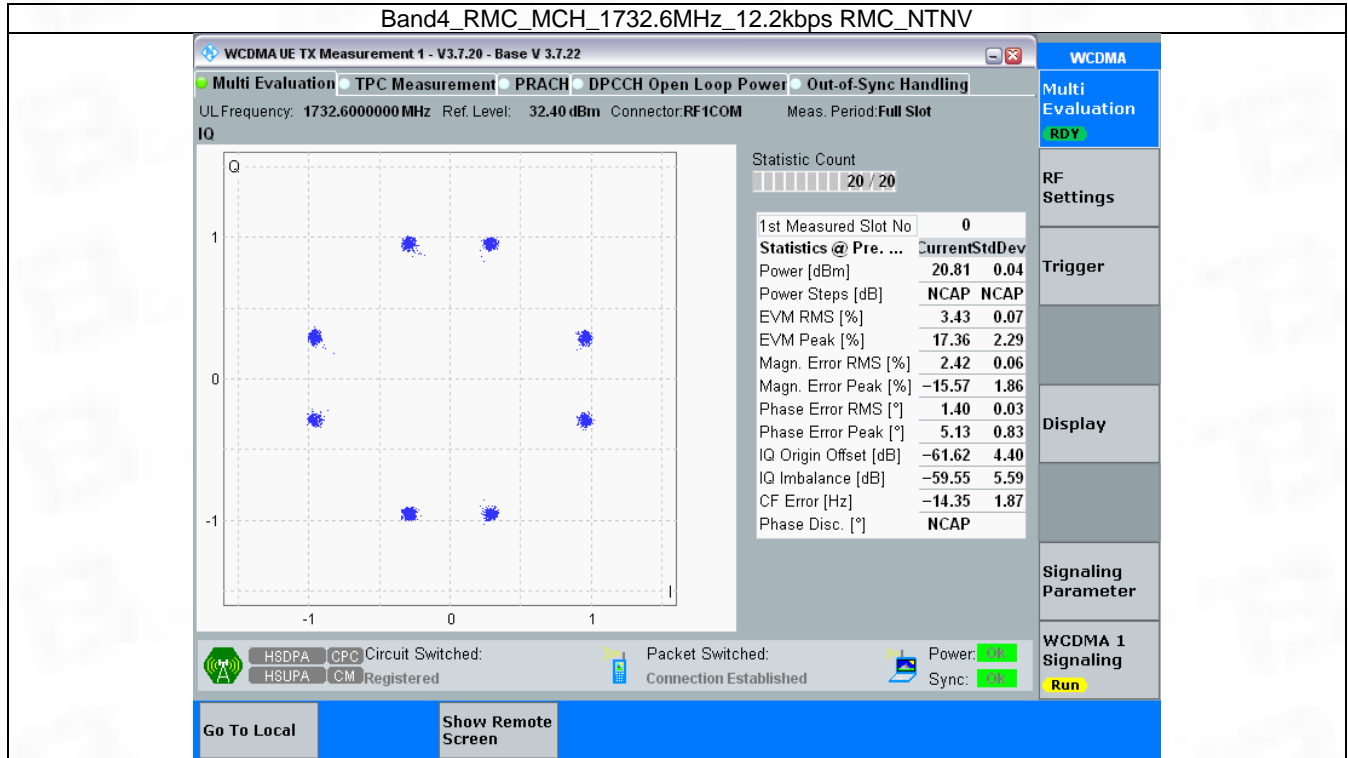
3. Modulation Characteristics

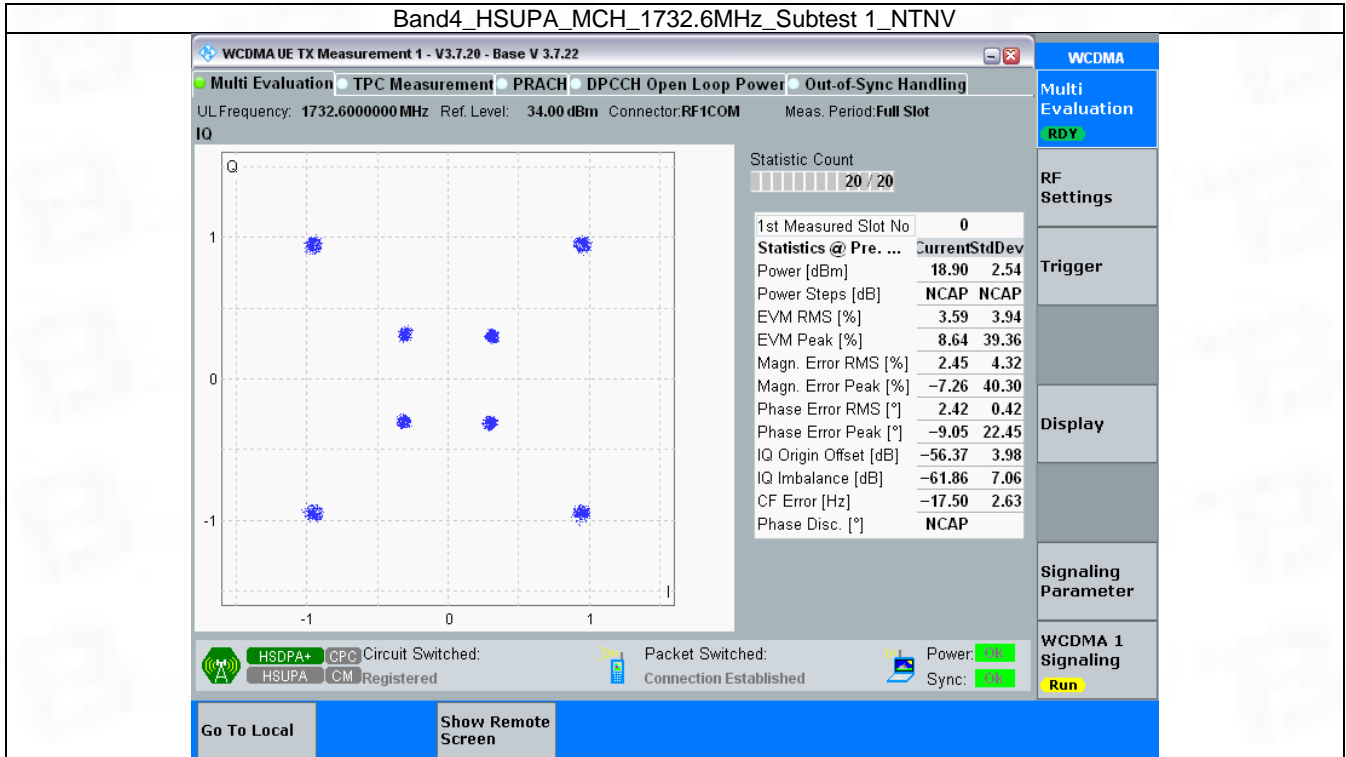
3.1 Band4

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

3.1.2 Test Graph





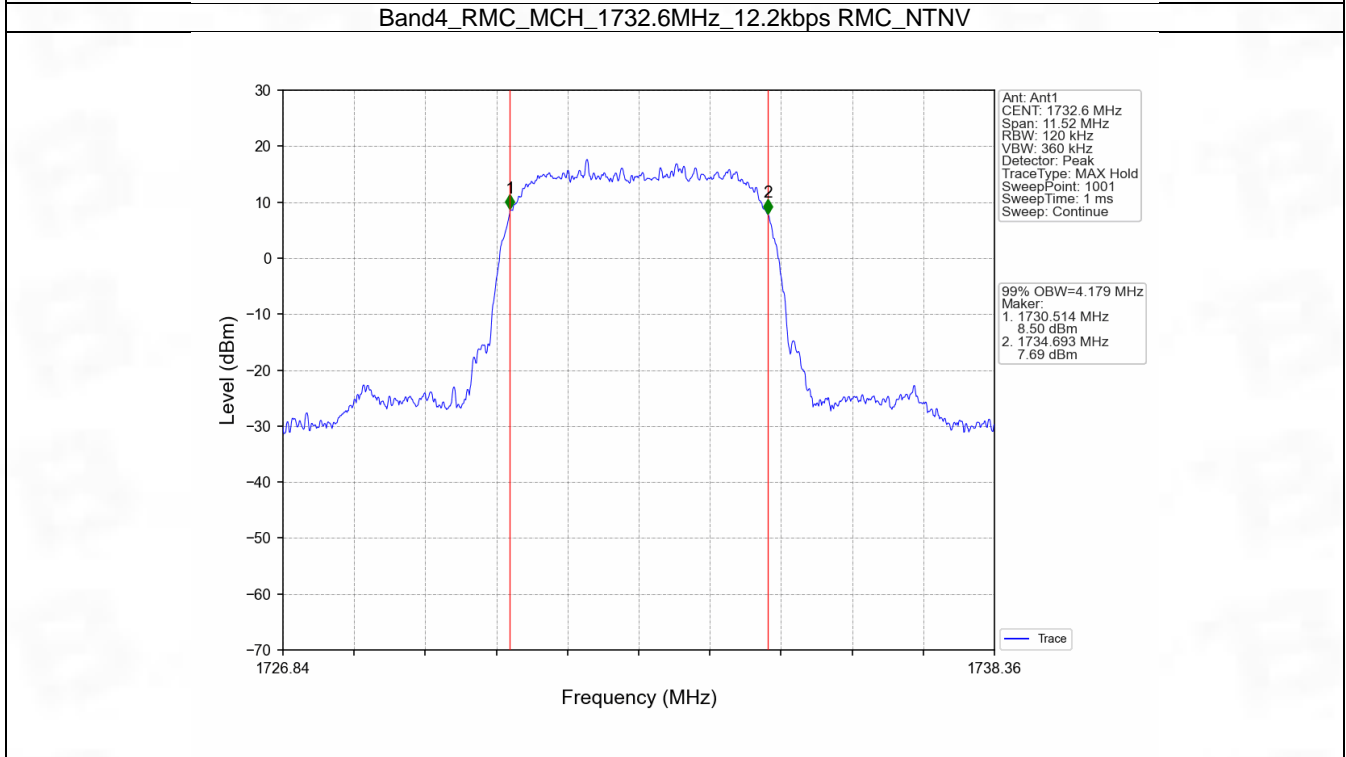
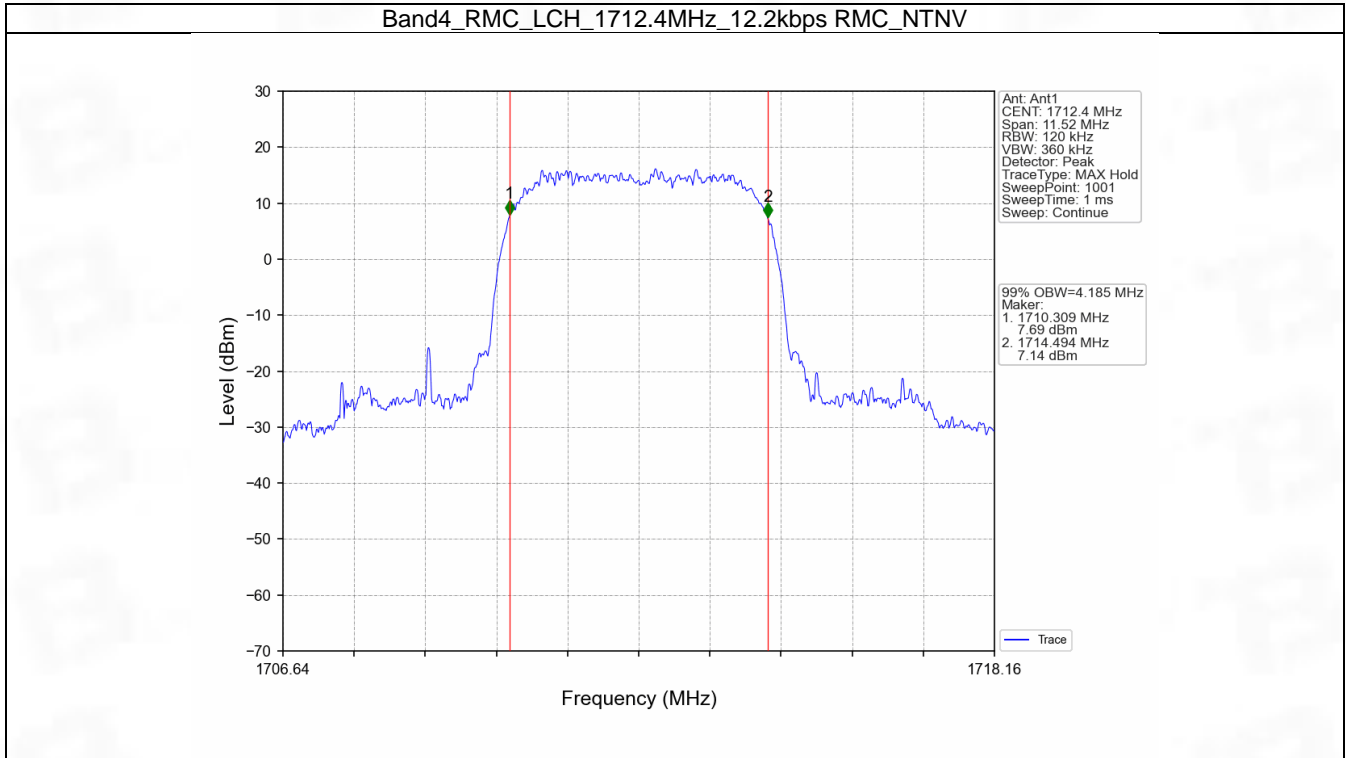
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

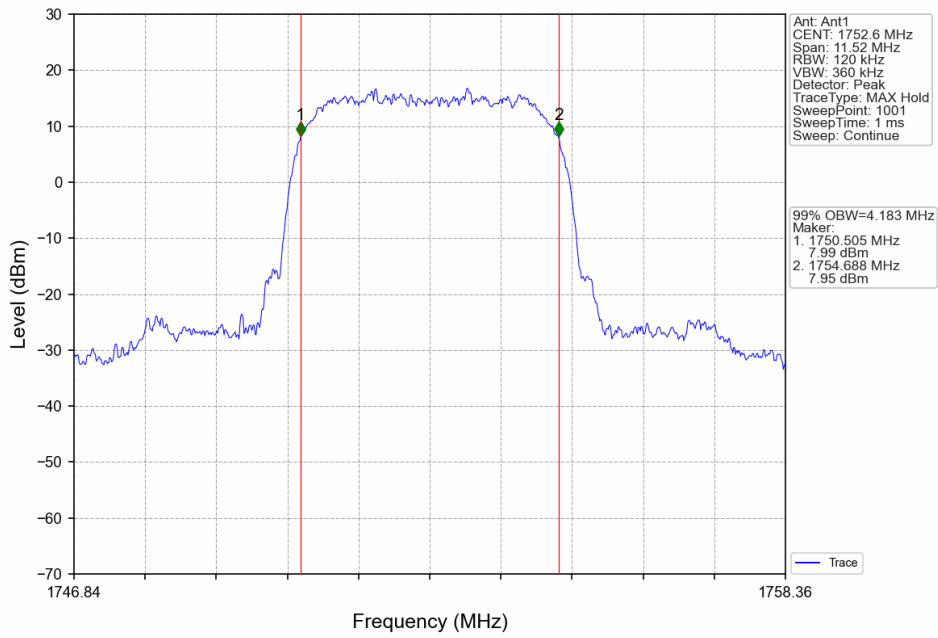
4.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.185	/	Pass
			1732.6	4.179	/	Pass
			1752.6	4.183	/	Pass
	HSDPA	Subtest 1	1712.4	4.190	/	Pass
			1732.6	4.248	/	Pass
			1752.6	4.248	/	Pass
	HSUPA	Subtest 1	1712.4	4.196	/	Pass
			1732.6	4.220	/	Pass
			1752.6	4.205	/	Pass

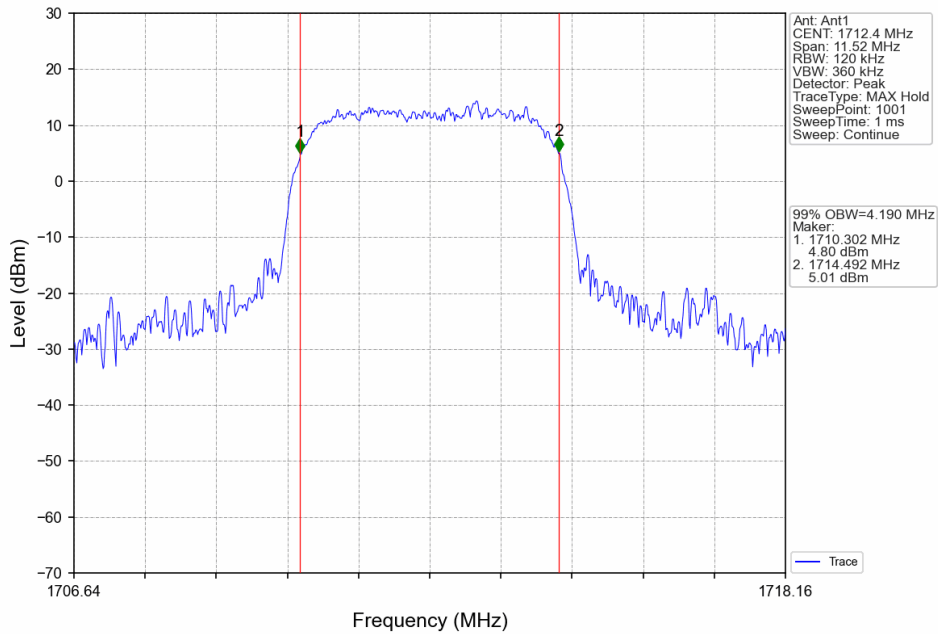
4.1.2 Test Graph



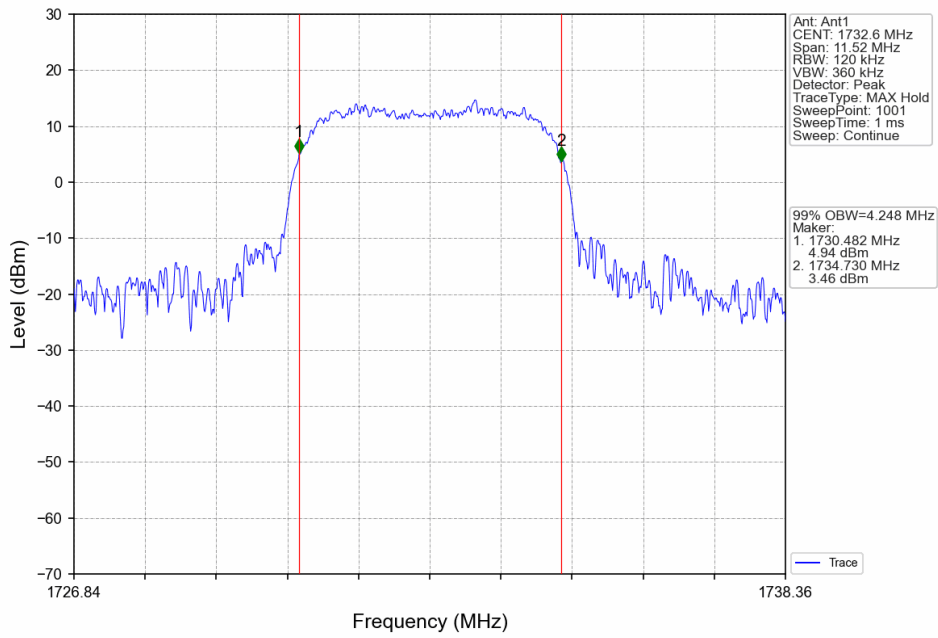
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



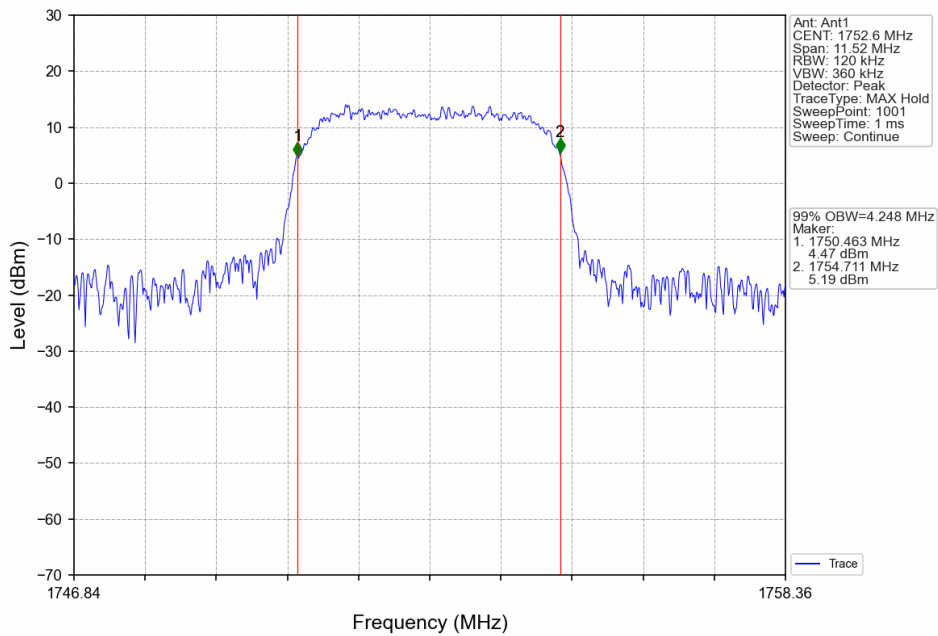
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



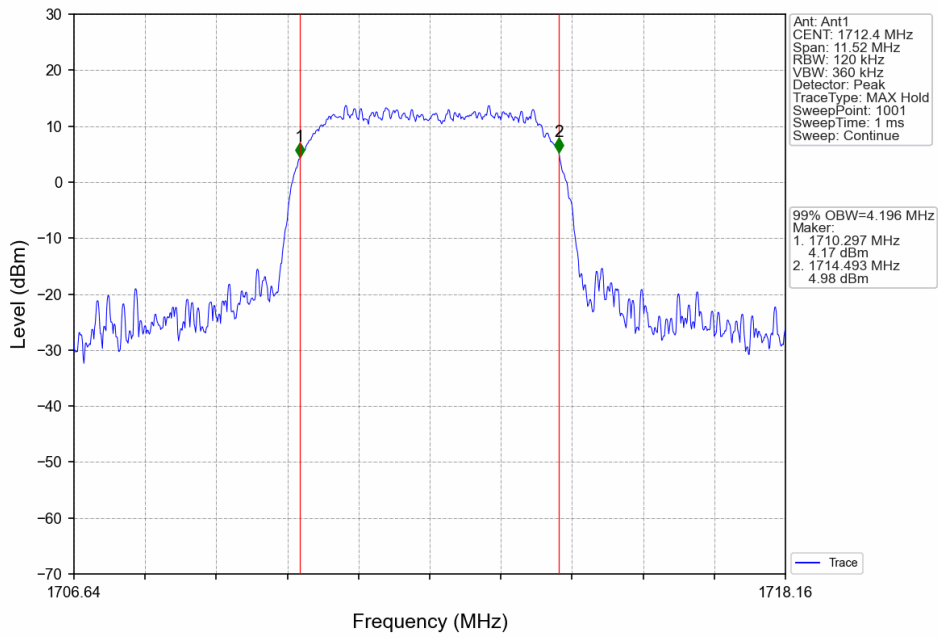
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



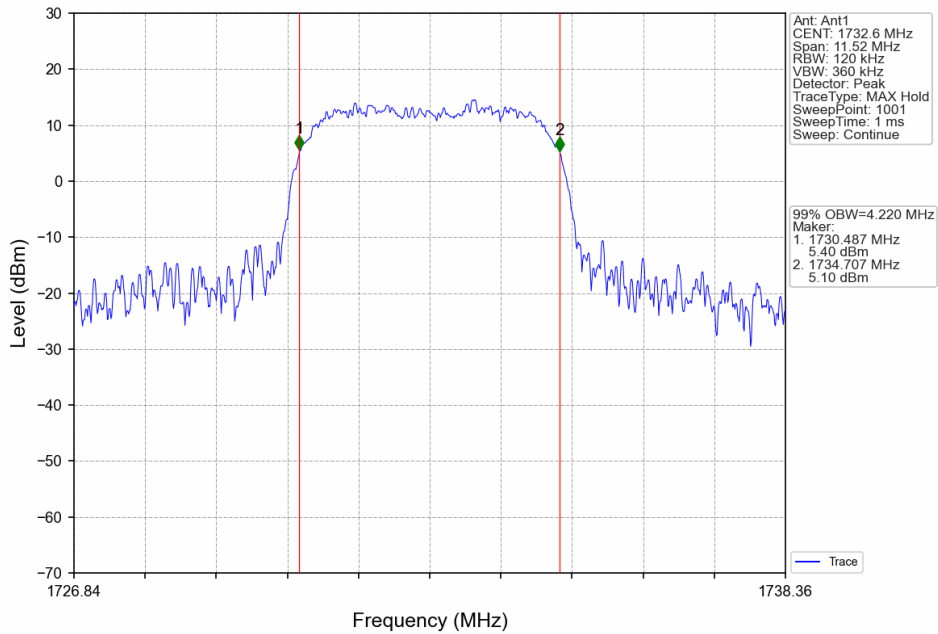
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

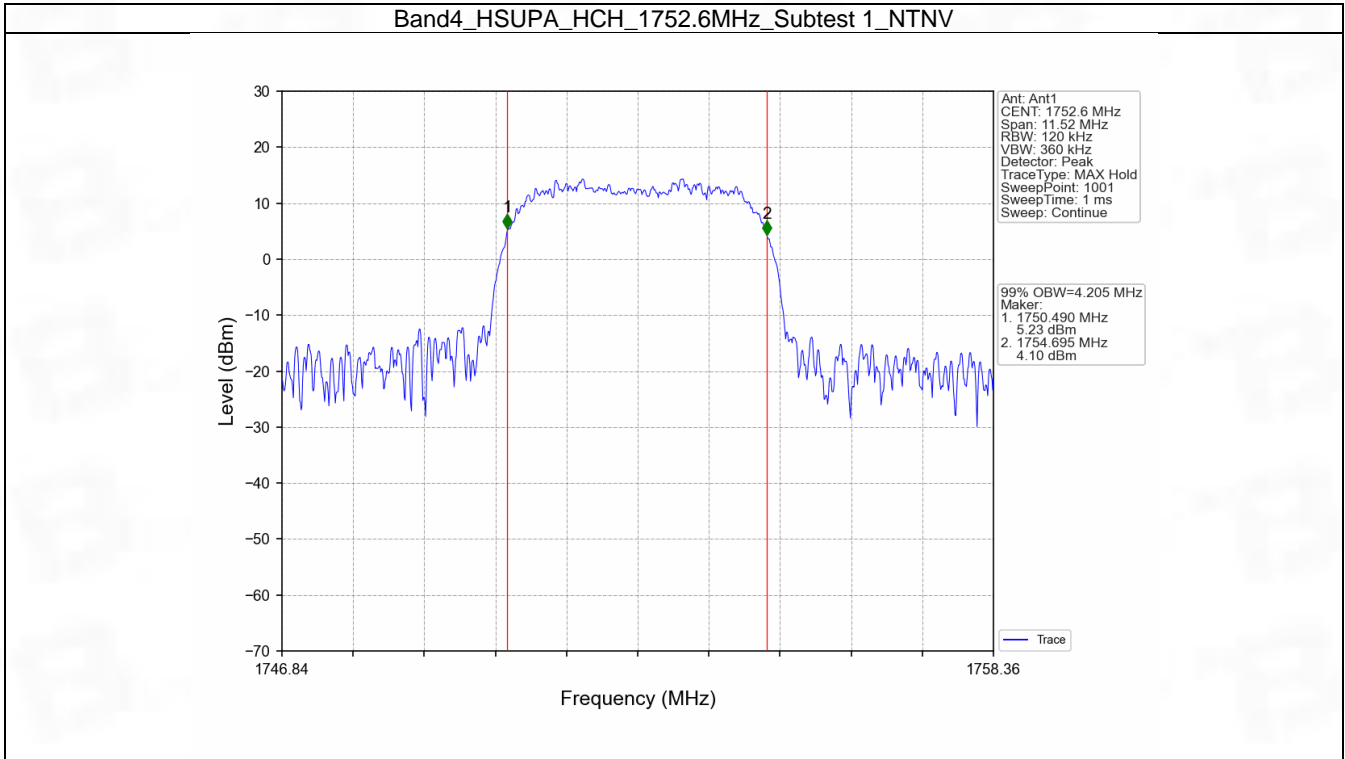


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



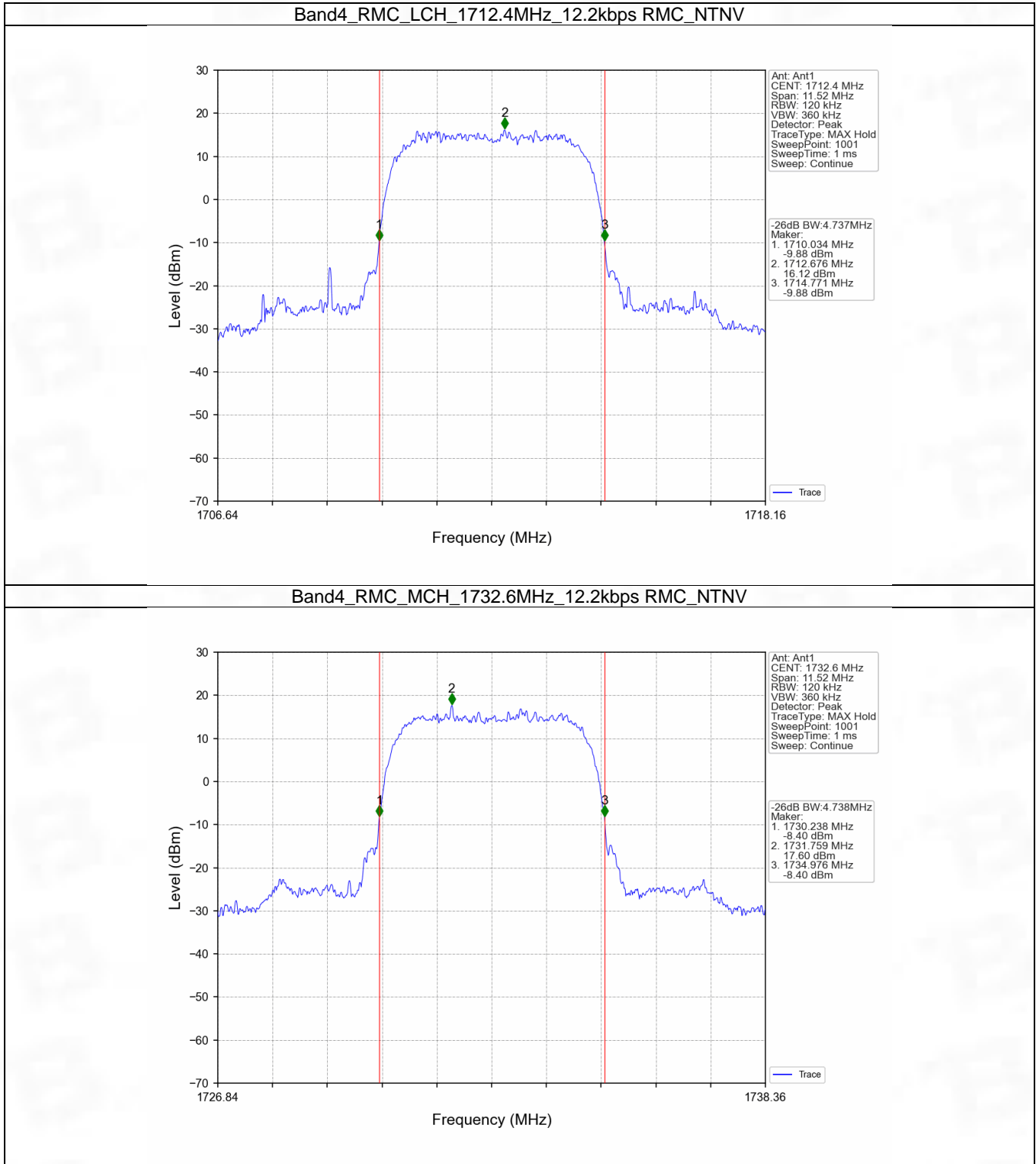


4.2 Band4_XDB

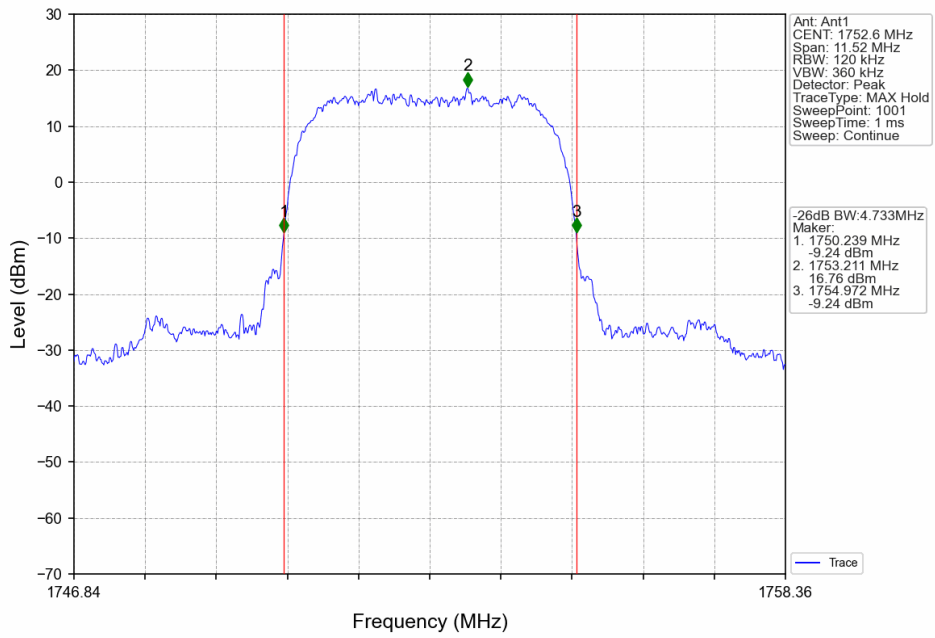
4.2.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.737	/	Pass
			1732.6	4.738	/	Pass
			1752.6	4.733	/	Pass
	HSDPA	Subtest 1	1712.4	4.745	/	Pass
			1732.6	5.810	/	Pass
			1752.6	5.064	/	Pass
	HSUPA	Subtest 1	1712.4	4.770	/	Pass
			1732.6	5.570	/	Pass
			1752.6	4.757	/	Pass

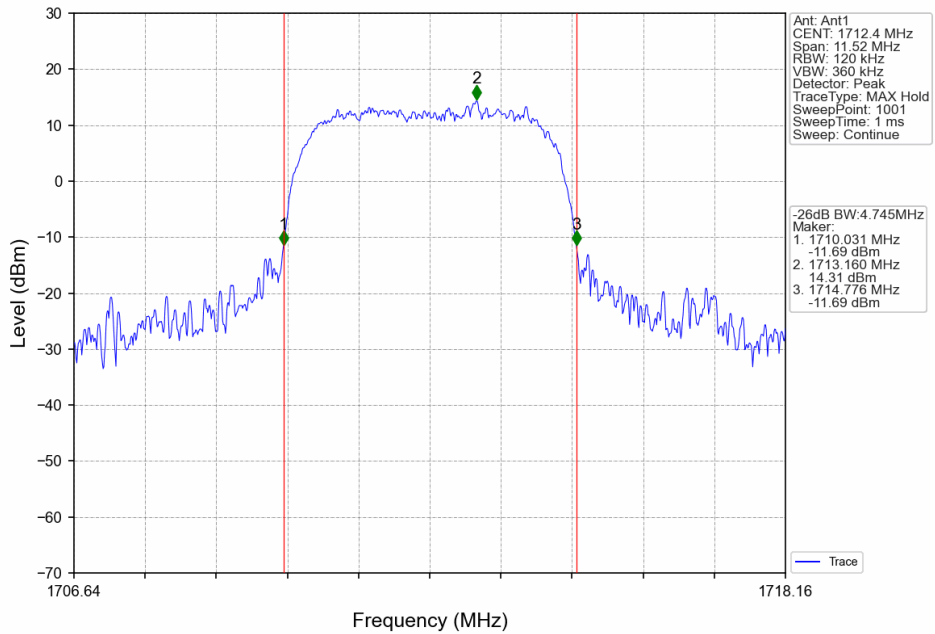
4.2.2 Test Graph



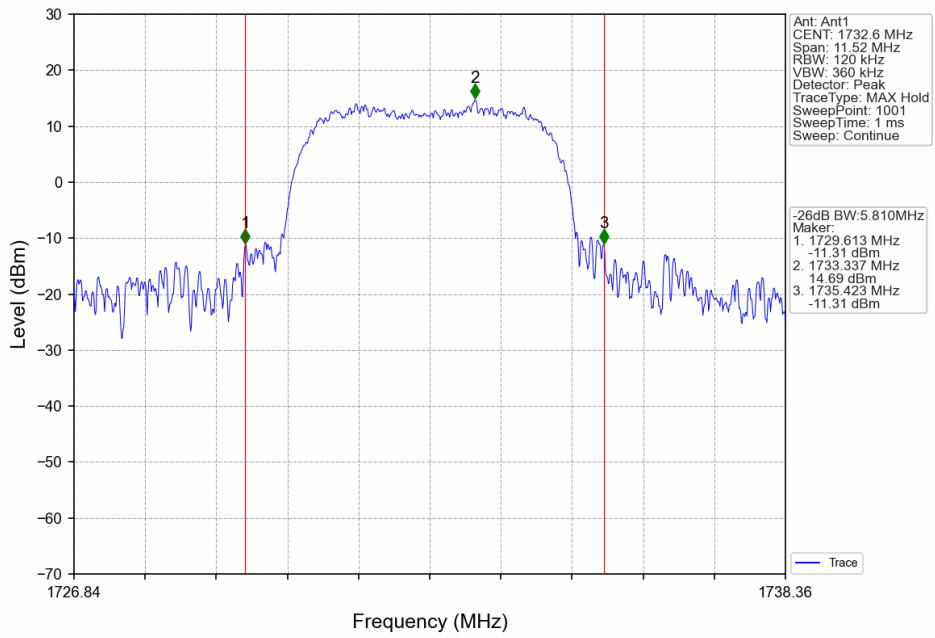
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



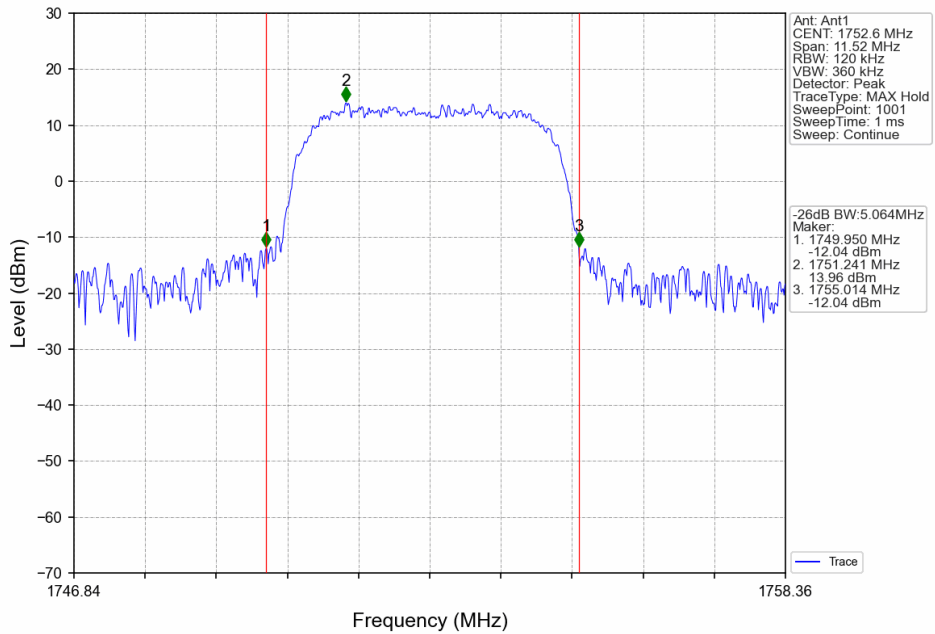
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



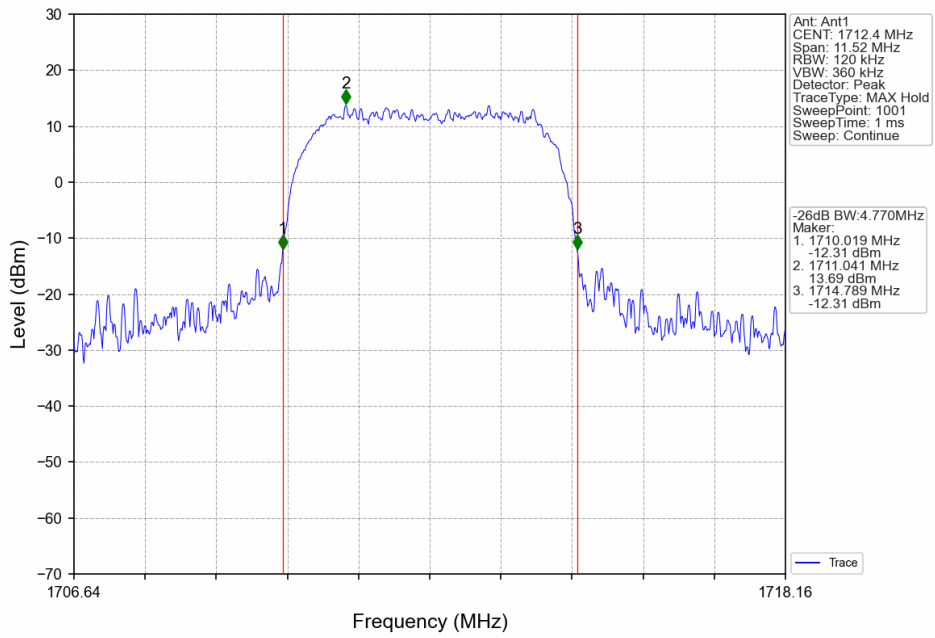
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



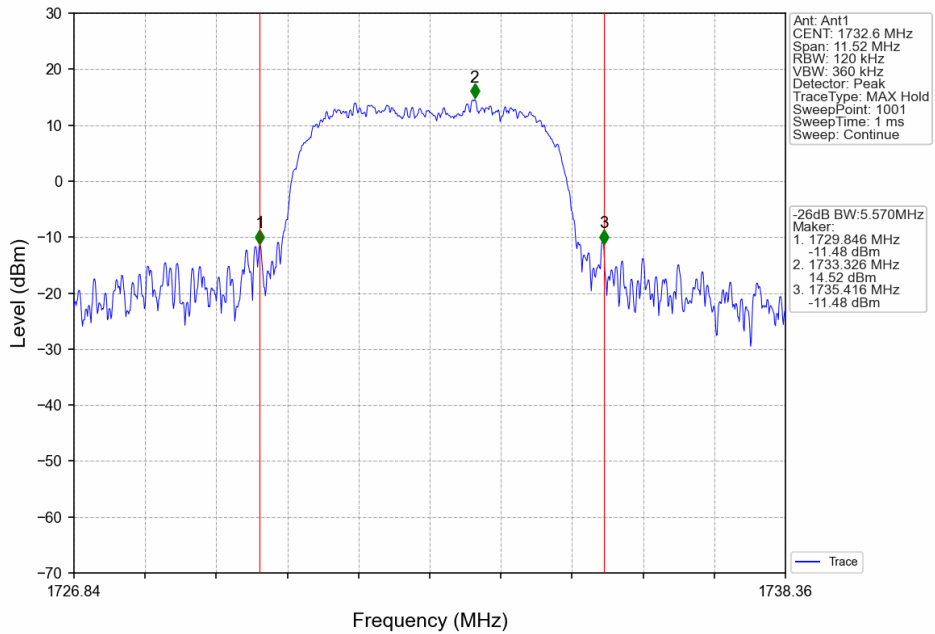
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

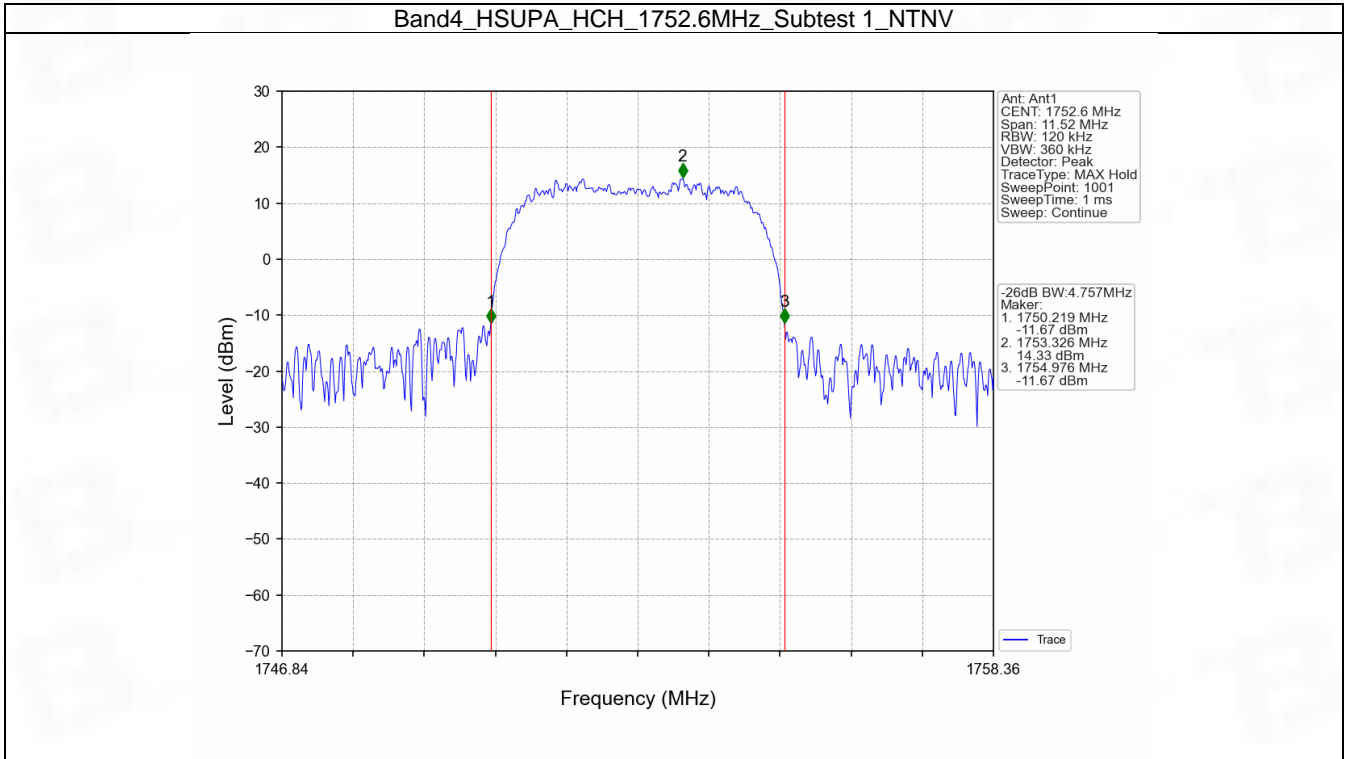


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV





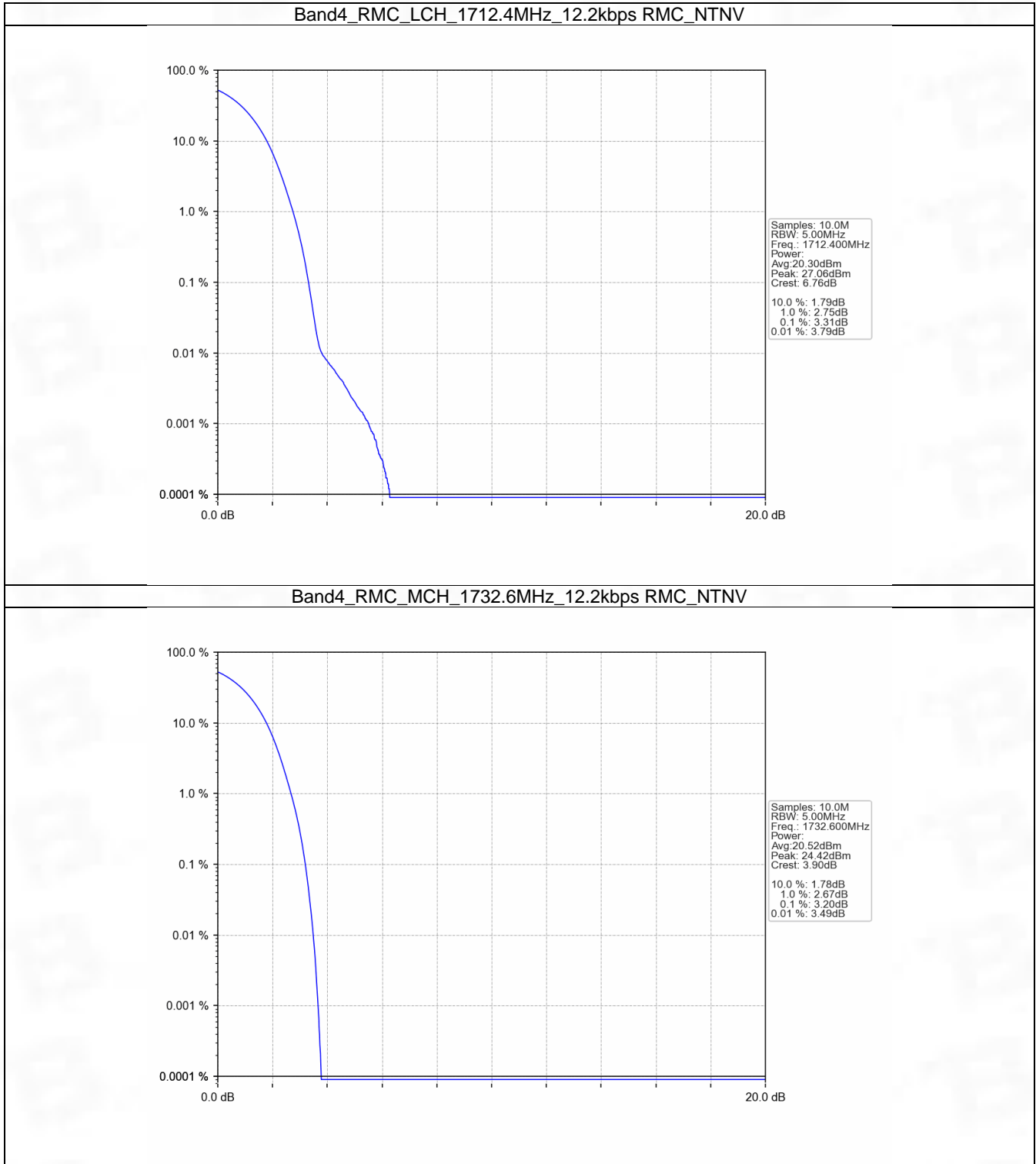
5. Peak-Average Ratio

5.1 Band4

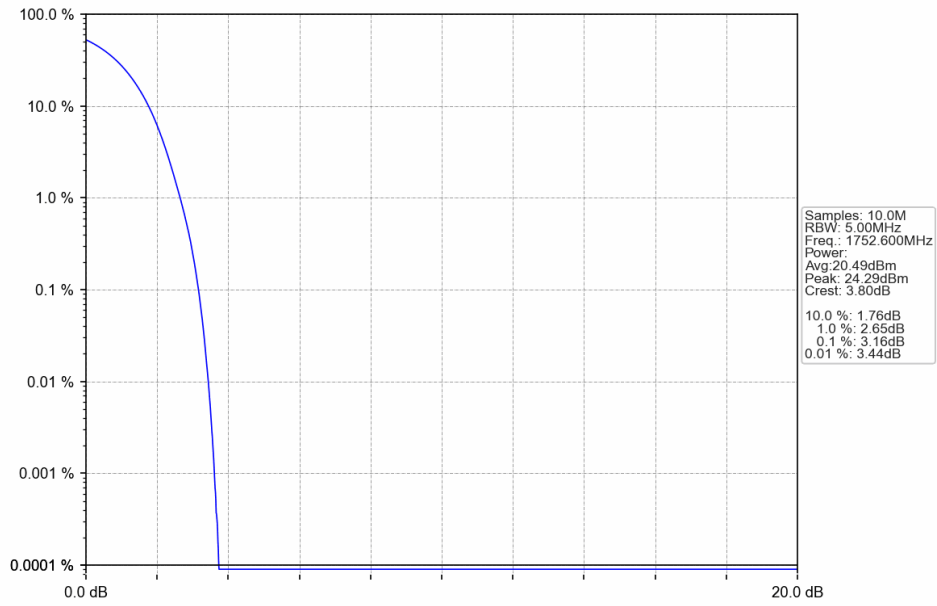
5.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.31	<=13	Pass
			1732.6	3.20	<=13	Pass
			1752.6	3.16	<=13	Pass
	HSDPA	Subtest 1	1712.4	6.08	<=13	Pass
			1732.6	6.10	<=13	Pass
			1752.6	6.05	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.08	<=13	Pass
			1732.6	6.13	<=13	Pass
			1752.6	6.03	<=13	Pass

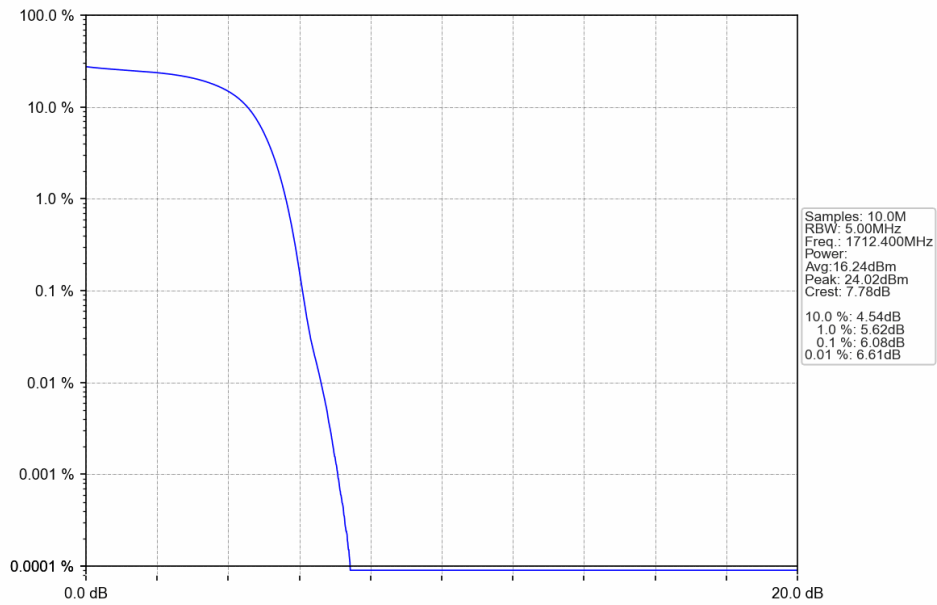
5.1.2 Test Graph



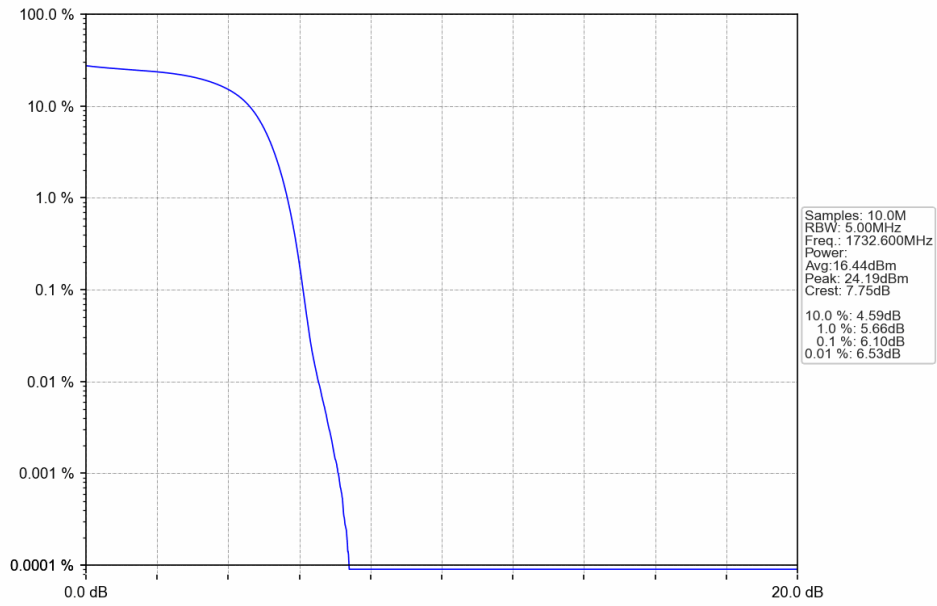
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



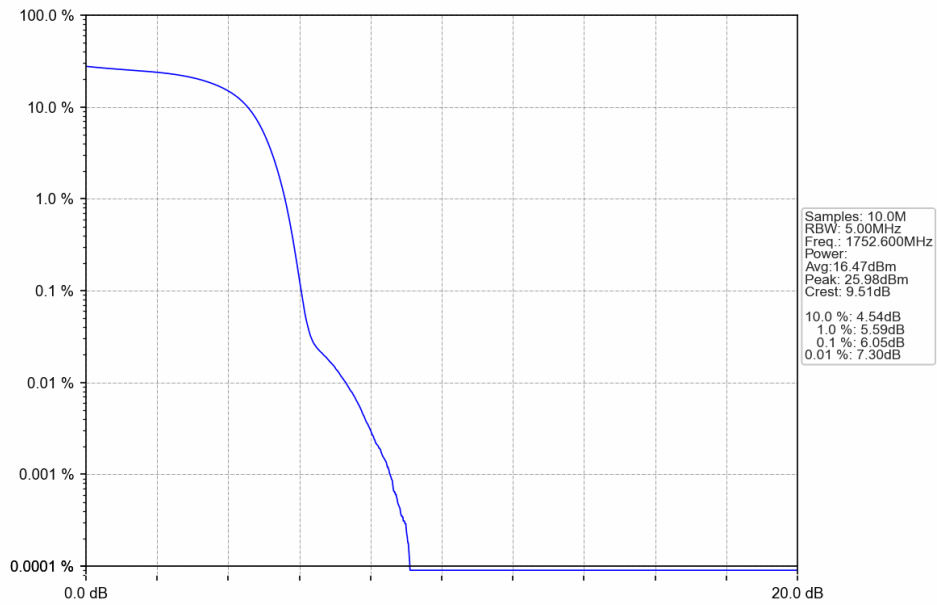
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



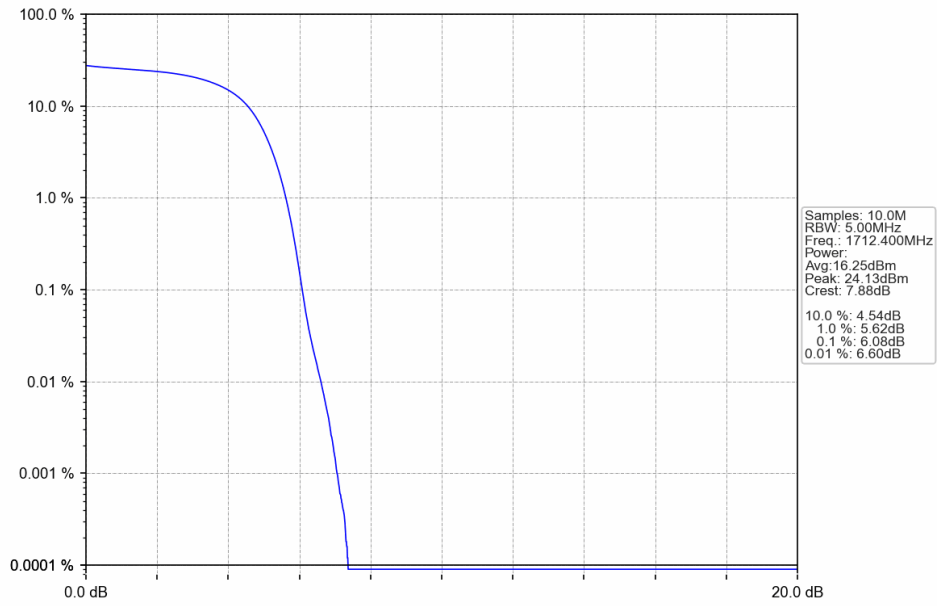
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



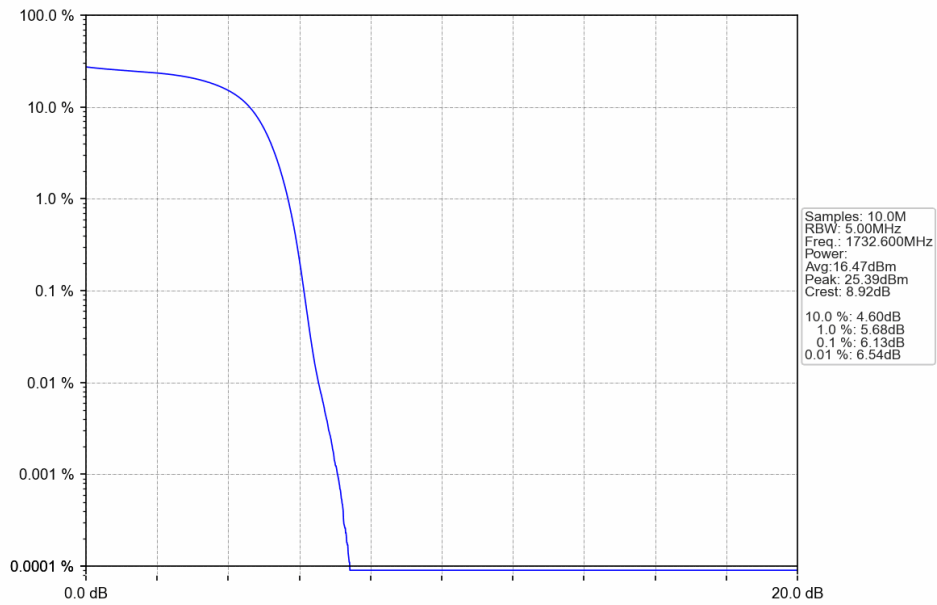
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

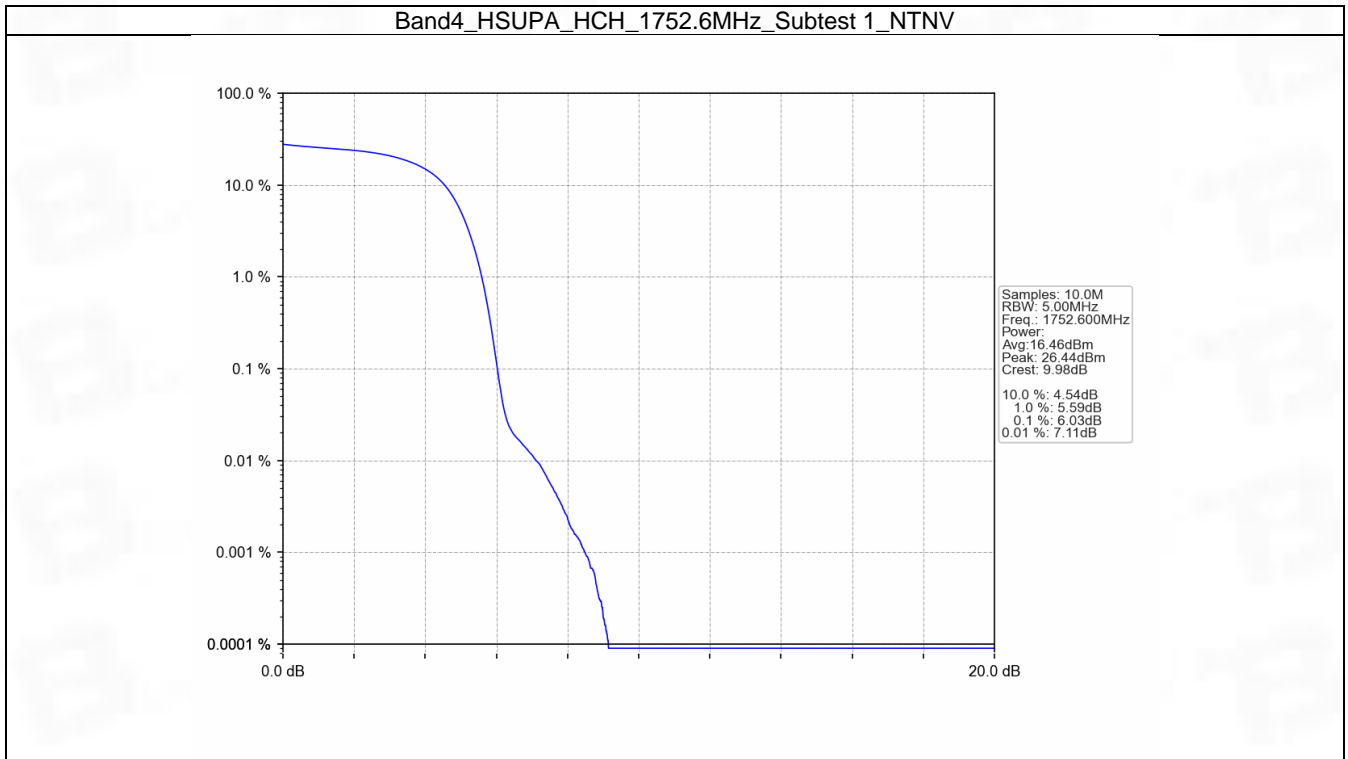


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV





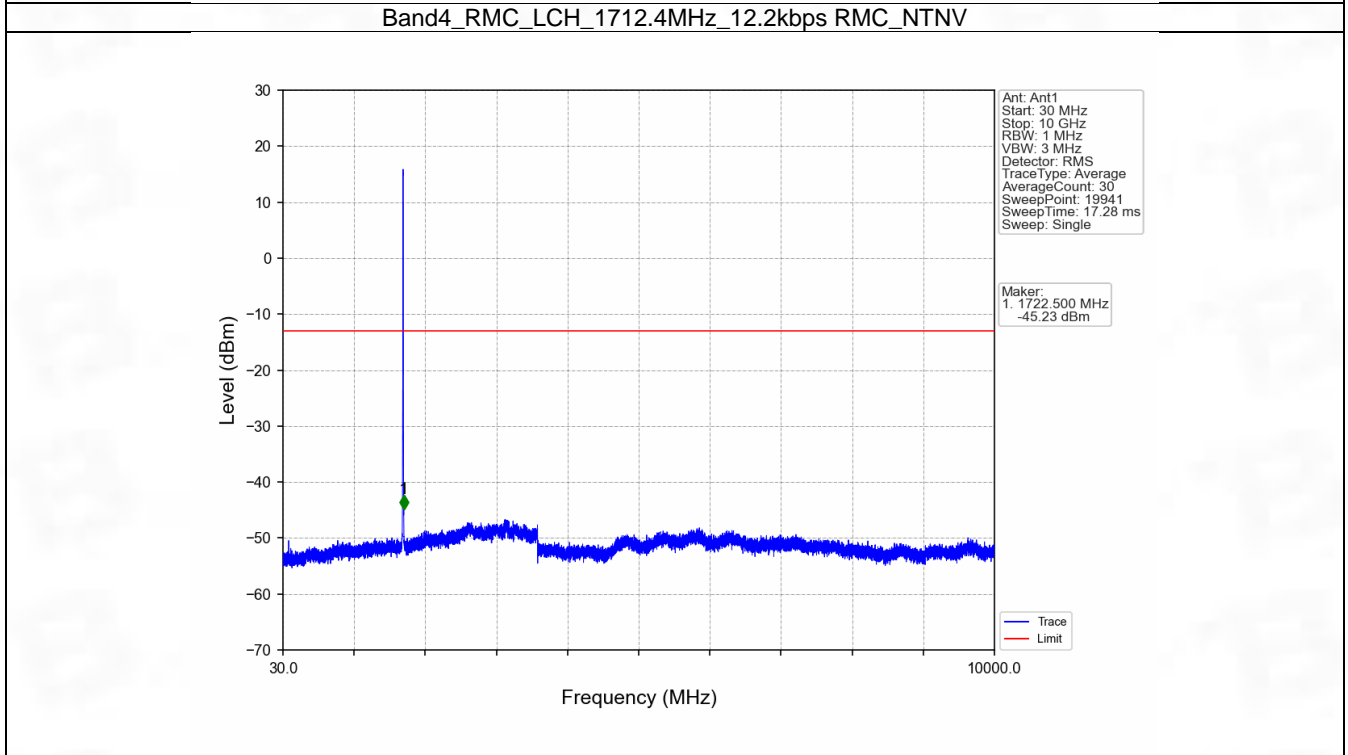
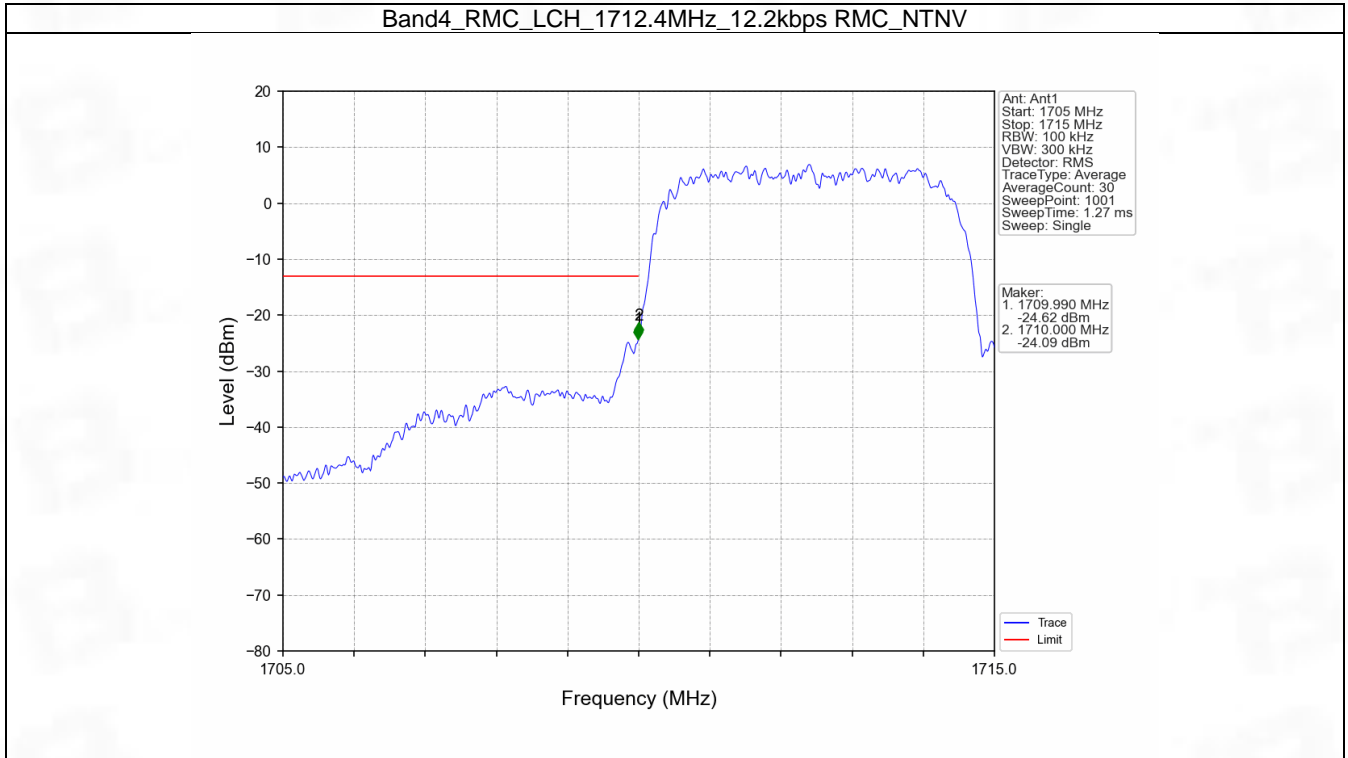
6. Spurious Emission

6.1 Band4

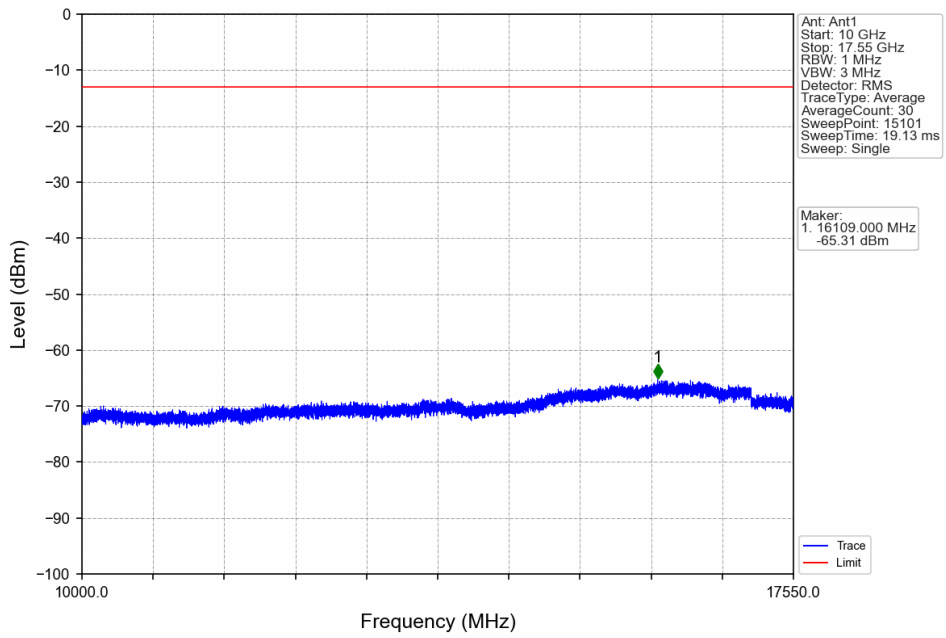
6.1.1 Test Result

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

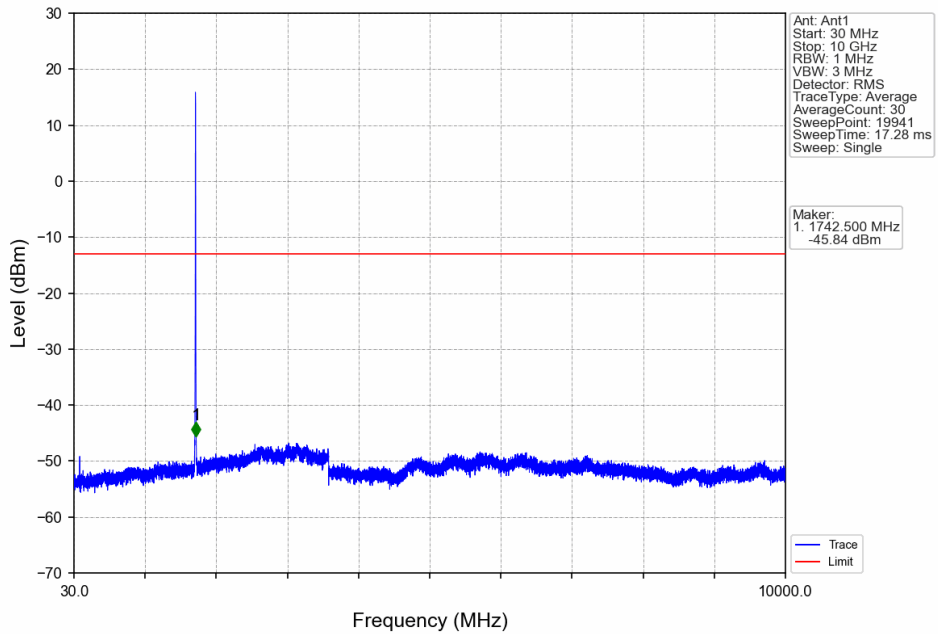
6.1.2 Test Graph



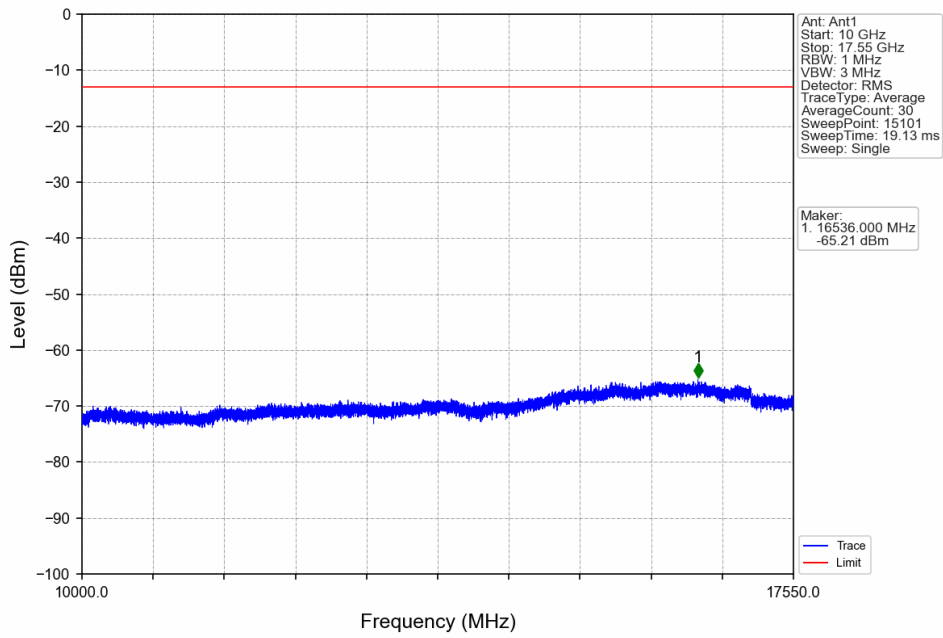
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



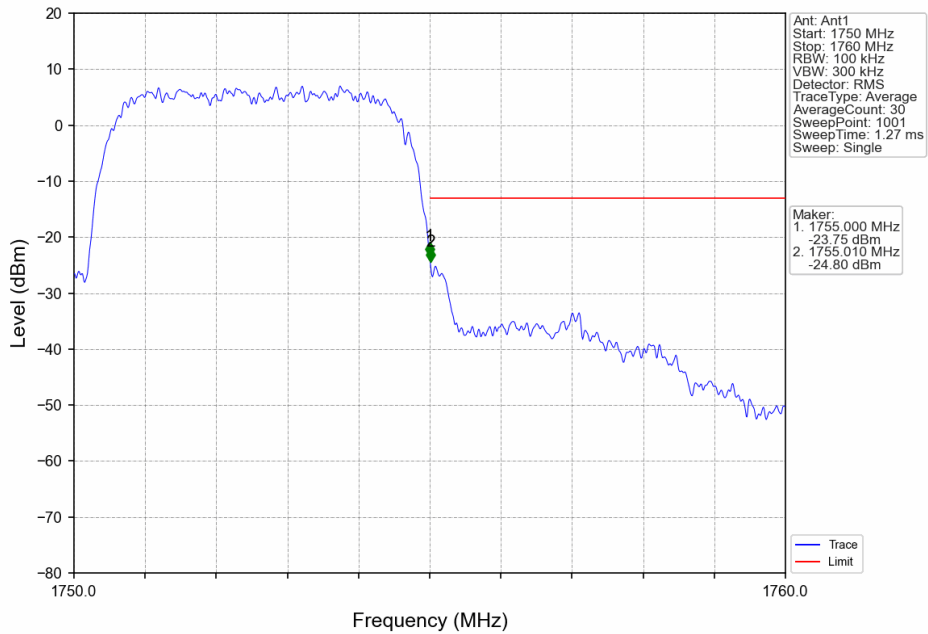
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



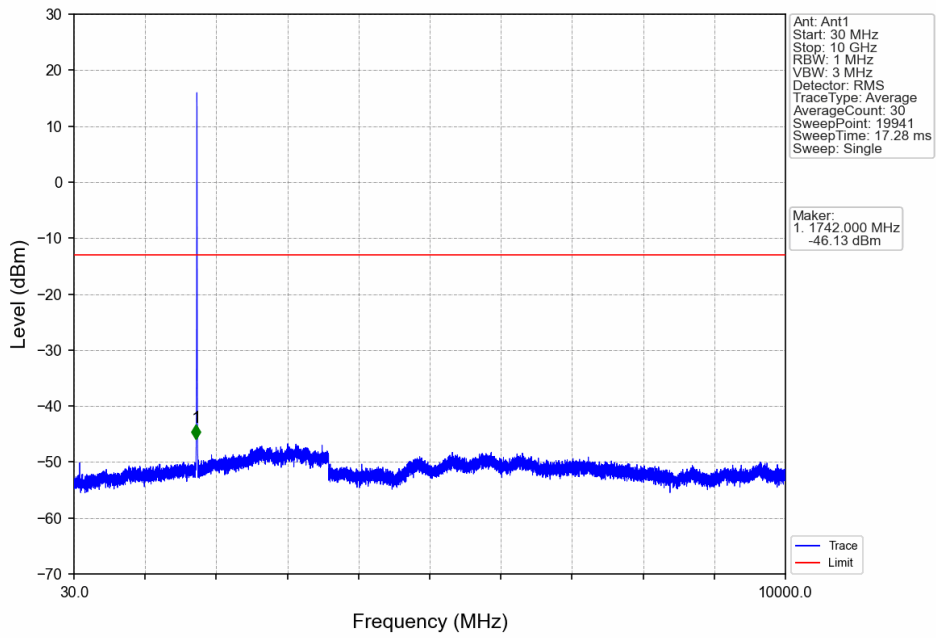
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



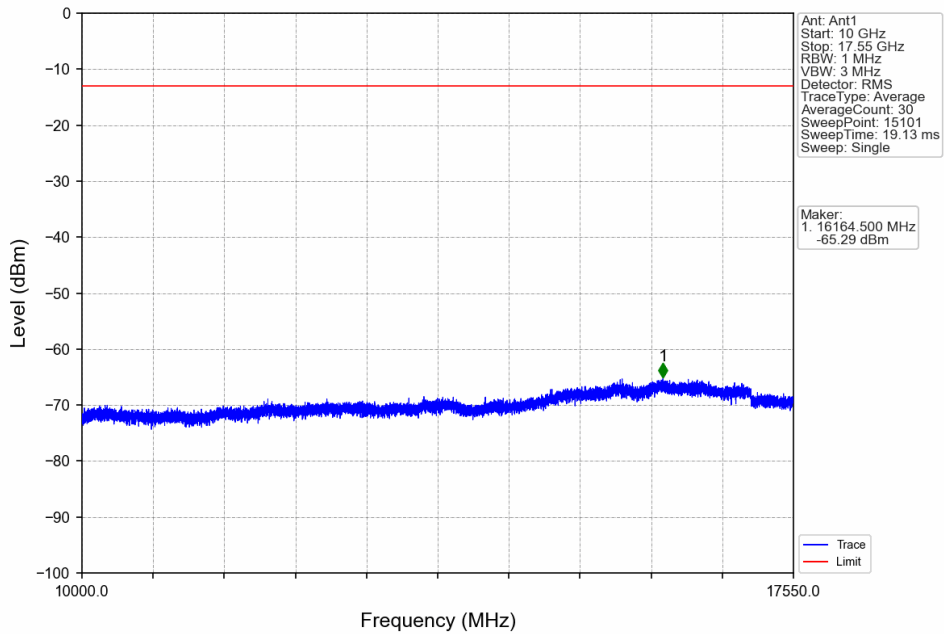
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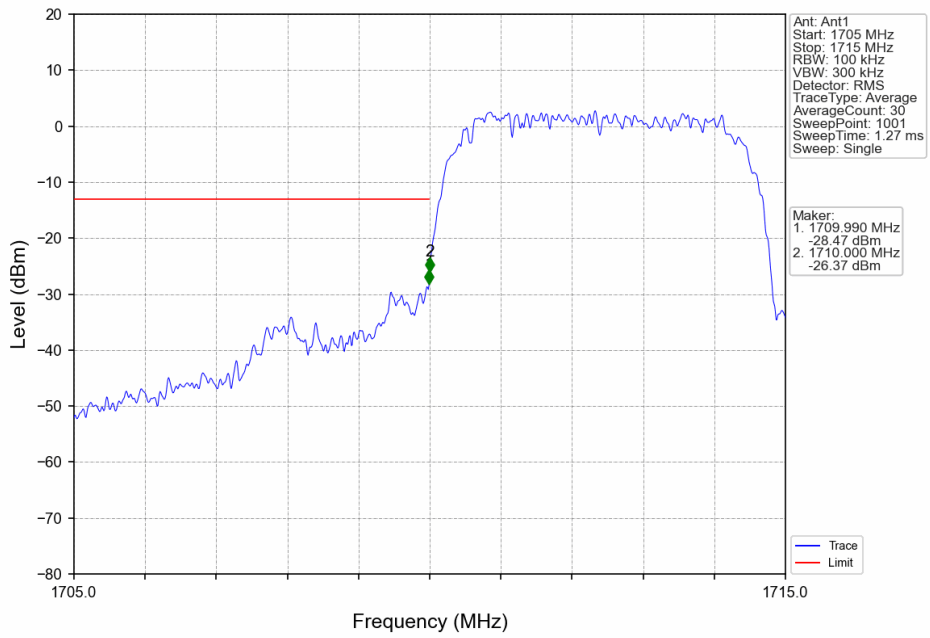
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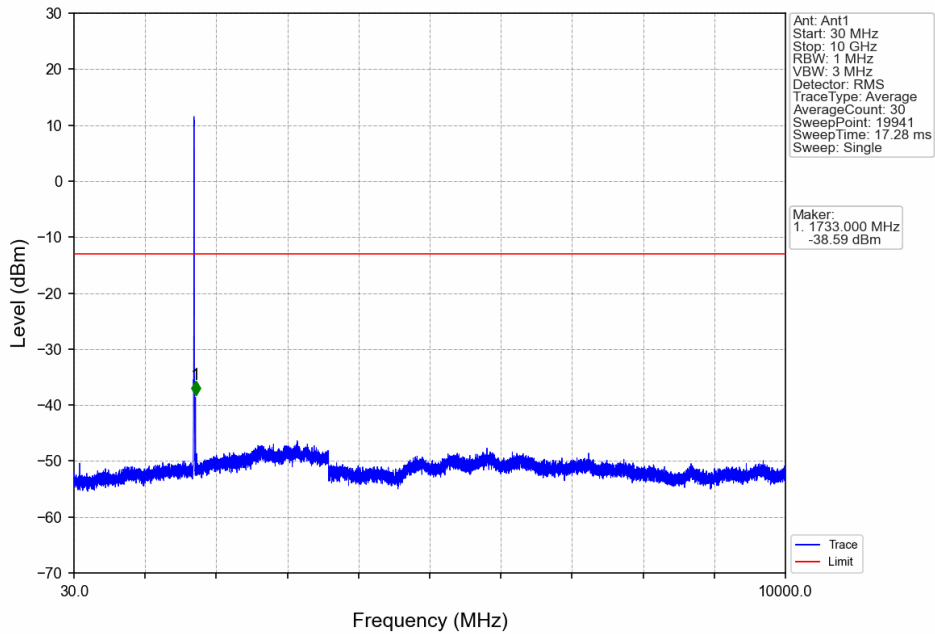
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



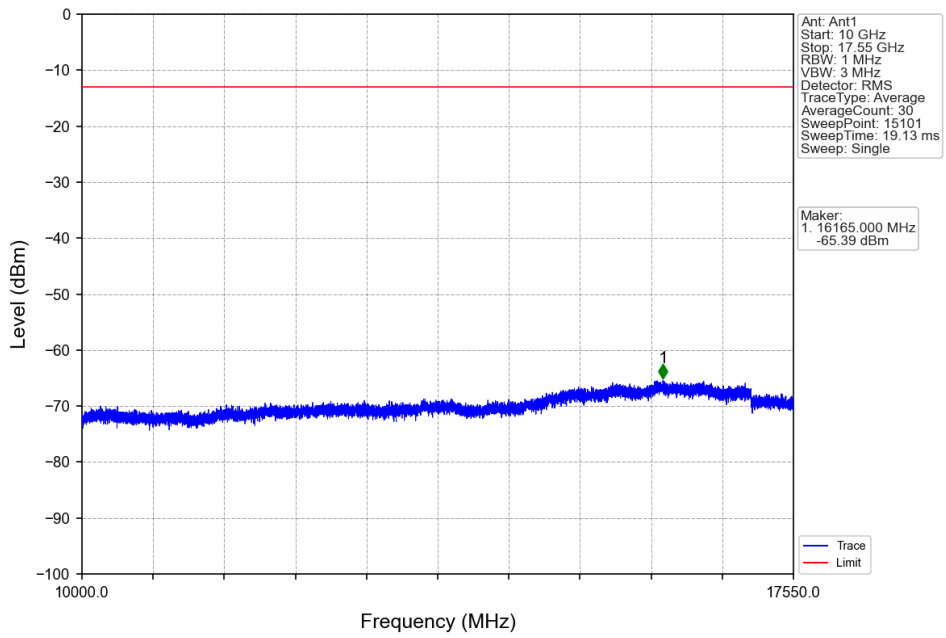
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



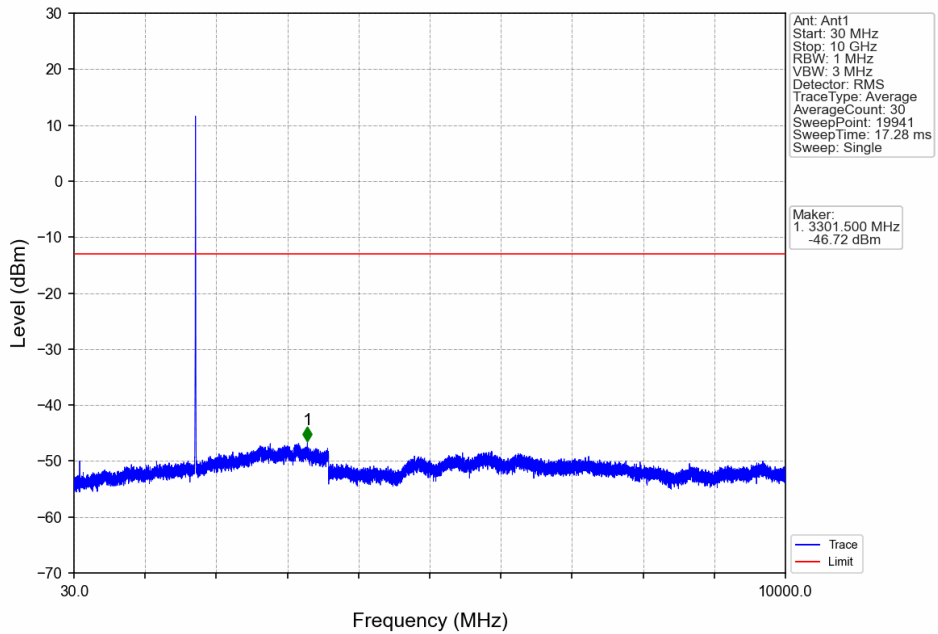
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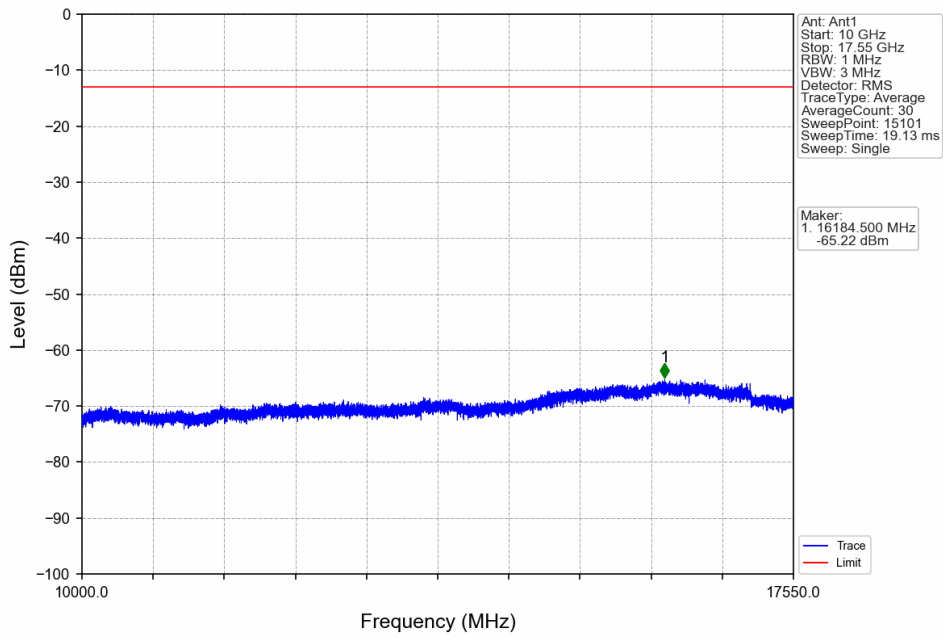
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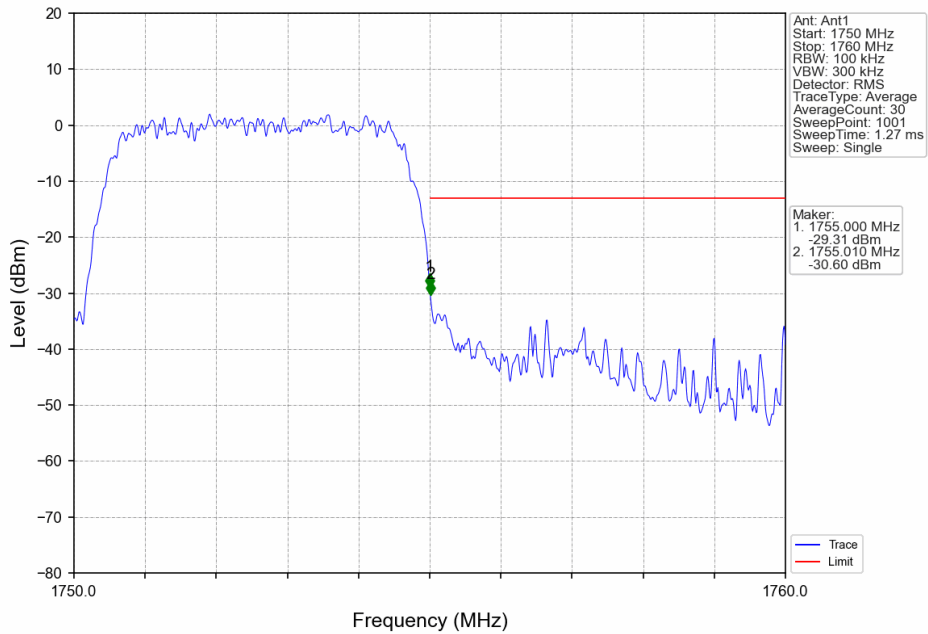
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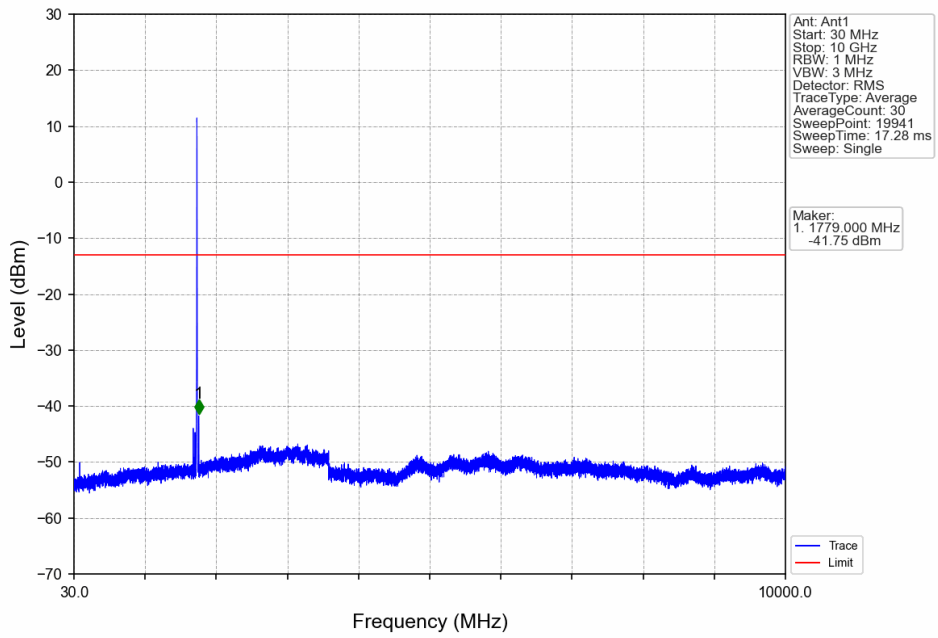
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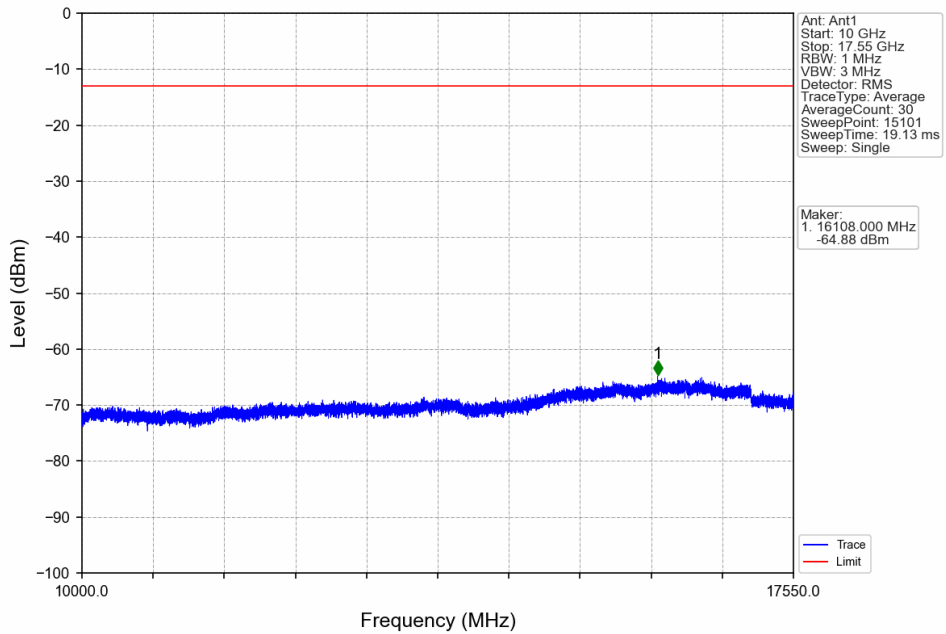
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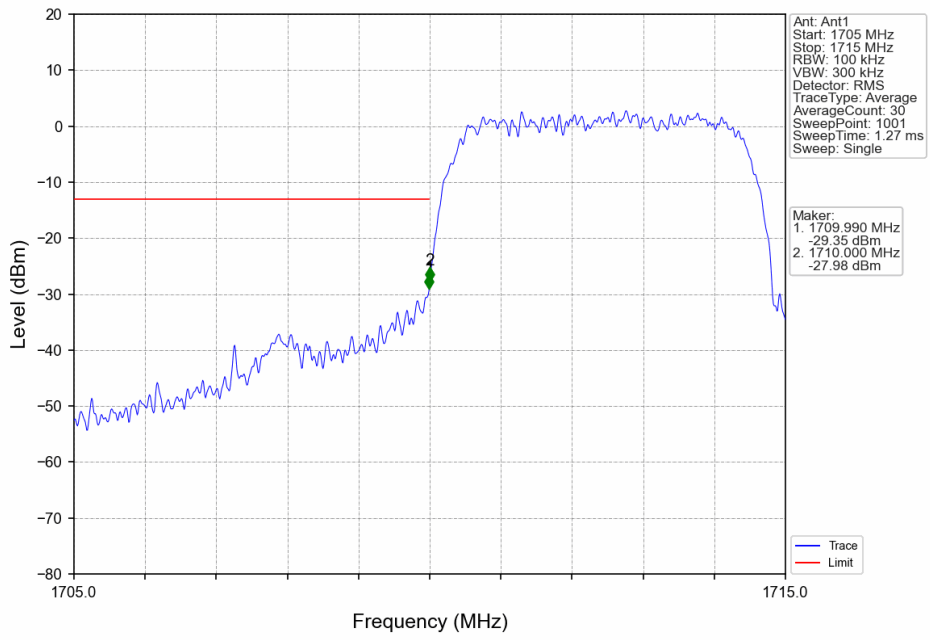
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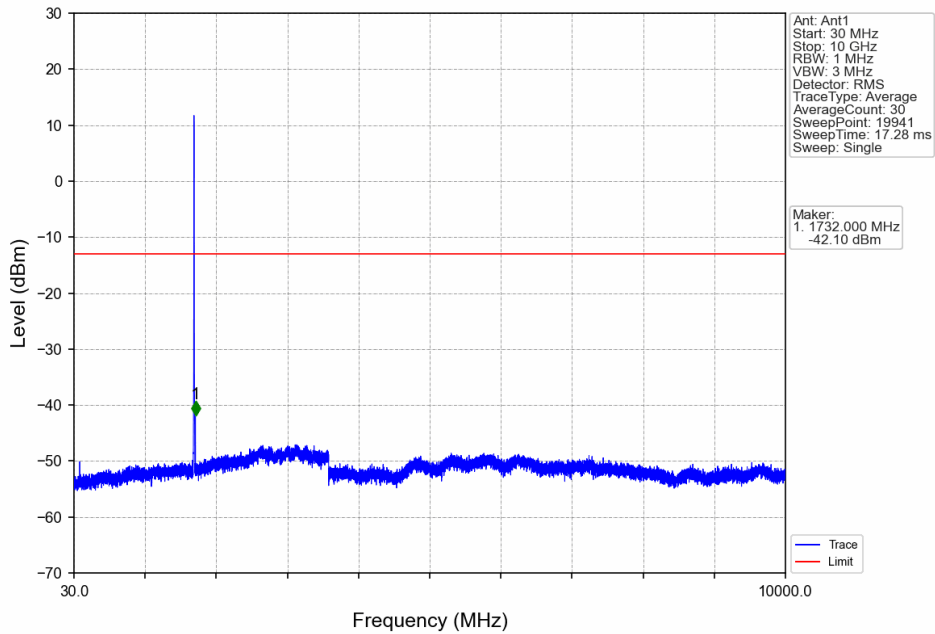
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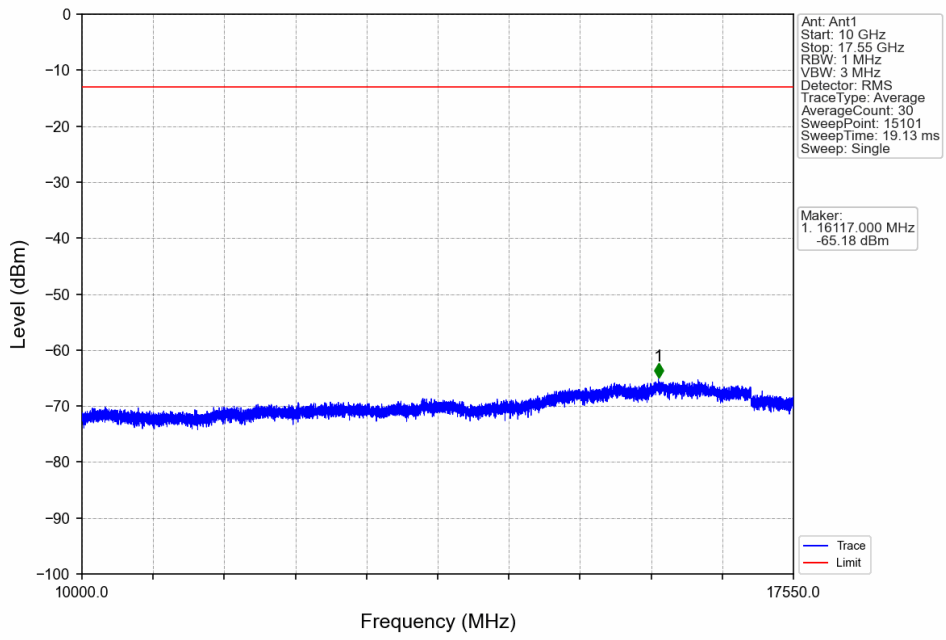
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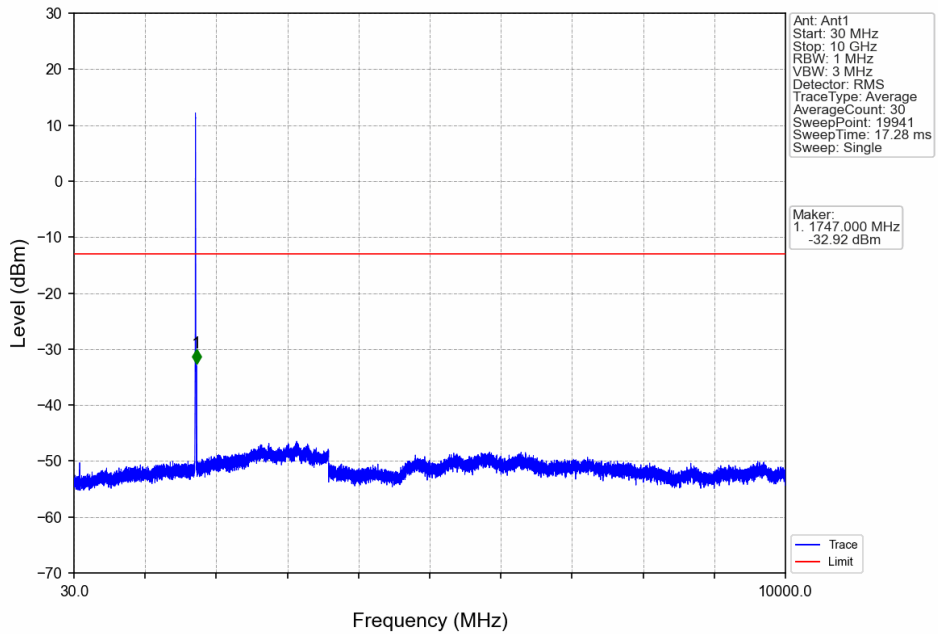
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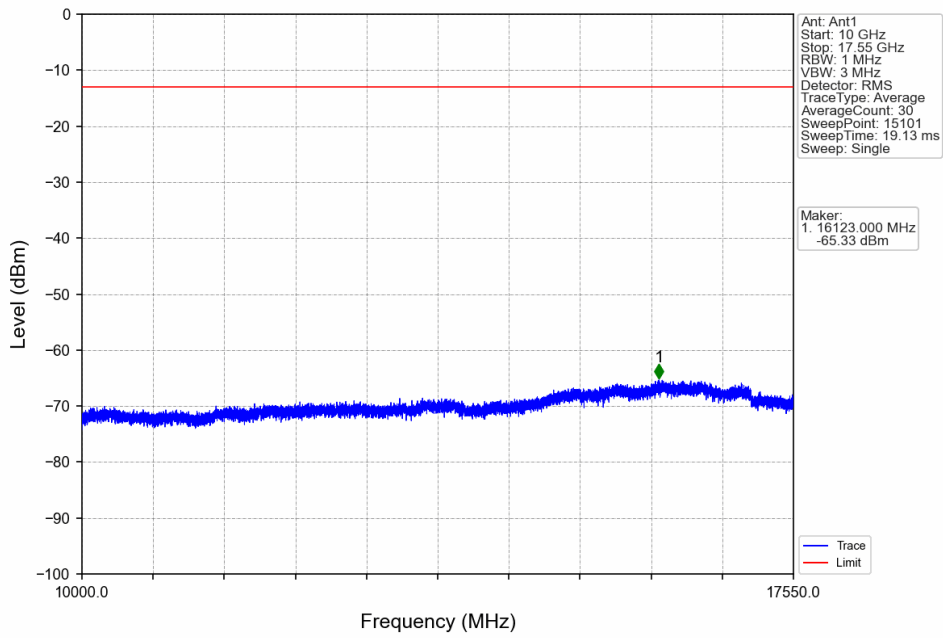
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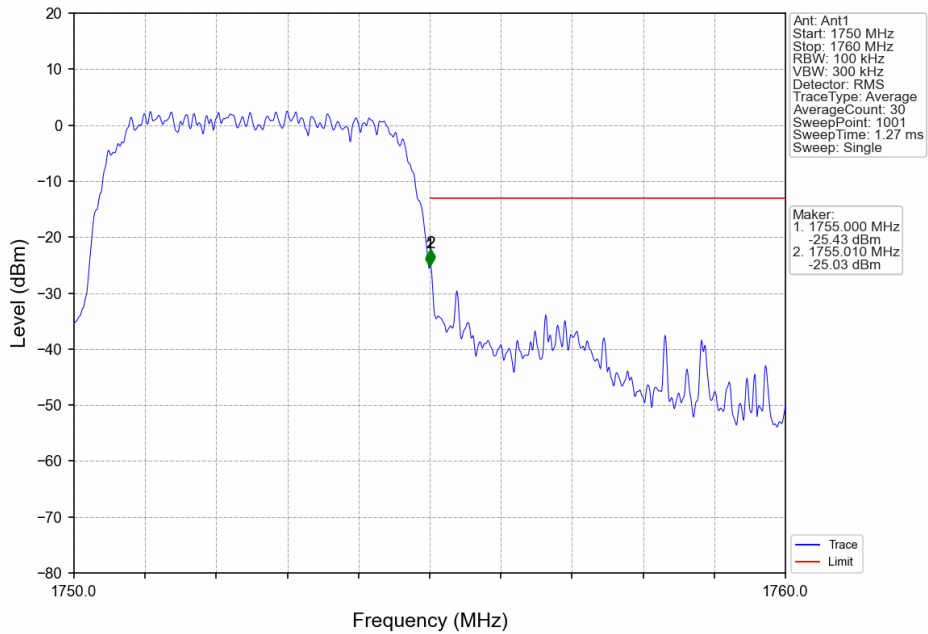
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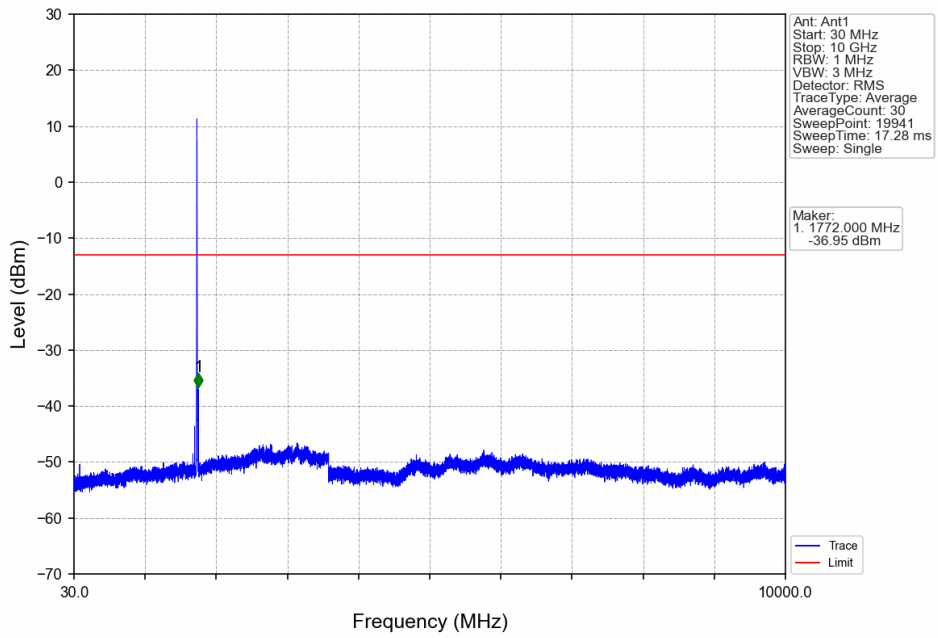
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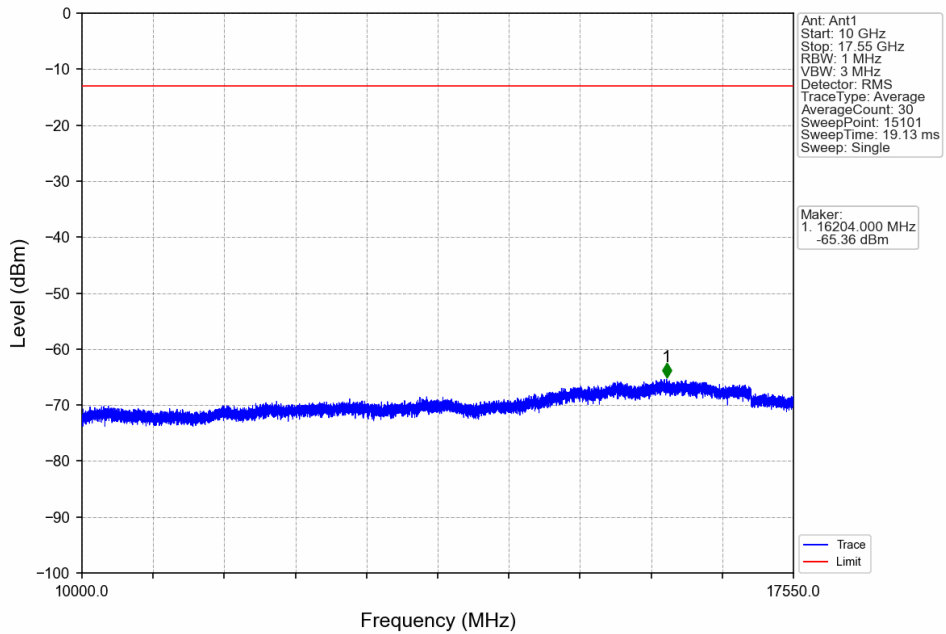
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	3.84	1712.4	1752.6	0.1285	0.0114	ppm	4M25F9W	27L	21.09

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	3.84	1712.4	1752.6	0.1660	0.0114	ppm	4M25F9W	27L	22.20