

Appendix H for KSCR2205000668AT-FCC-WCDMA Band4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band4_EIRP

1.1.1 Test Result

ENV	Band: 4						Verdict	
	Network	Mode	Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		
NTNV	RMC	12.2kbps RMC	1712.4	23.18	0.44	23.62	<=30	Pass
			1732.6	23.56	0.44	24.00	<=30	Pass
			1752.6	23.67	0.44	24.11	<=30	Pass
	HSDPA	Subtest 1	1712.4	21.18	0.44	21.62	<=30	Pass
		Subtest 2	1712.4	21.18	0.44	21.62	<=30	Pass
		Subtest 3	1712.4	21.13	0.44	21.57	<=30	Pass
		Subtest 4	1712.4	21.12	0.44	21.56	<=30	Pass
		Subtest 1	1732.6	21.39	0.44	21.83	<=30	Pass
		Subtest 2	1732.6	21.38	0.44	21.82	<=30	Pass
		Subtest 3	1732.6	21.37	0.44	21.81	<=30	Pass
		Subtest 4	1732.6	21.32	0.44	21.76	<=30	Pass
		Subtest 1	1752.6	21.45	0.44	21.89	<=30	Pass
		Subtest 2	1752.6	21.47	0.44	21.91	<=30	Pass
		Subtest 3	1752.6	21.45	0.44	21.89	<=30	Pass
		Subtest 4	1752.6	21.39	0.44	21.83	<=30	Pass
	HSUPA	Subtest 1	1712.4	18.87	0.44	19.31	<=30	Pass
		Subtest 2	1712.4	19.09	0.44	19.53	<=30	Pass
		Subtest 3	1712.4	18.88	0.44	19.32	<=30	Pass
		Subtest 4	1712.4	19.15	0.44	19.59	<=30	Pass
		Subtest 5	1712.4	18.89	0.44	19.33	<=30	Pass
		Subtest 1	1732.6	19.61	0.44	20.05	<=30	Pass
		Subtest 2	1732.6	18.69	0.44	19.13	<=30	Pass
		Subtest 3	1732.6	19.50	0.44	19.94	<=30	Pass
		Subtest 4	1732.6	18.81	0.44	19.25	<=30	Pass
		Subtest 5	1732.6	19.54	0.44	19.98	<=30	Pass
		Subtest 1	1752.6	19.54	0.44	19.98	<=30	Pass
		Subtest 2	1752.6	18.78	0.44	19.22	<=30	Pass
		Subtest 3	1752.6	19.11	0.44	19.55	<=30	Pass
		Subtest 4	1752.6	18.91	0.44	19.35	<=30	Pass
		Subtest 5	1752.6	19.53	0.44	19.97	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Band4

2.1.1 Test Result

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Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Band: 4		Verdict	
					Freq. vs. Rated (ppm)			
					Result	Limit		
RMC	1712.4	20	3.46	-13.053	-0.0076	-2.5 to 2.5	Pass	
			3.8	-12.774	-0.0075	-2.5 to 2.5	Pass	
			4.35	-11.809	-0.0069	-2.5 to 2.5	Pass	
			-30	3.8	-11.079	-0.0065	Pass	
			-20	3.8	-10.607	-0.0062	Pass	
		-10	3.8	-10.328	-0.0060	-2.5 to 2.5	Pass	
			0	3.8	-11.530	-0.0067	Pass	
			10	3.8	-13.812	-0.0081	Pass	
			30	3.8	-13.247	-0.0077	Pass	
			40	3.8	-14.584	-0.0085	Pass	
	1732.6	20	3.8	-13.754	-0.0080	-2.5 to 2.5	Pass	
			3.46	-13.039	-0.0075	-2.5 to 2.5	Pass	
			3.8	-12.546	-0.0072	-2.5 to 2.5	Pass	
			4.35	-12.946	-0.0075	-2.5 to 2.5	Pass	
			-30	3.8	-16.301	-0.0094	Pass	
HSDPA	1752.6	20	-20	3.8	-13.826	-0.0080	Pass	
			-10	3.8	-15.535	-0.0090	Pass	
			0	3.8	-14.105	-0.0081	Pass	
			10	3.8	-14.369	-0.0083	Pass	
			30	3.8	-14.985	-0.0086	Pass	
		-10	40	3.8	-12.932	-0.0075	Pass	
			0	3.8	-14.741	-0.0085	Pass	
			10	3.8	-10.972	-0.0063	Pass	
			30	3.8	-10.307	-0.0059	Pass	
			40	3.8	-11.394	-0.0065	Pass	
	1712.4	20	-30	3.8	-9.913	-0.0057	Pass	
			-20	3.8	-12.567	-0.0072	Pass	
			-10	3.8	-10.493	-0.0060	Pass	
			0	3.8	-9.799	-0.0056	Pass	
			10	3.8	-10.965	-0.0063	Pass	
	1732.6	20	30	3.8	-8.969	-0.0051	Pass	
			40	3.8	-9.634	-0.0055	Pass	
			50	3.8	-7.904	-0.0045	Pass	
			3.46	-8.726	-0.0051	-2.5 to 2.5	Pass	
			3.8	-13.068	-0.0076	-2.5 to 2.5	Pass	
	1712.4	20	4.35	-7.403	-0.0043	-2.5 to 2.5	Pass	
			-30	3.8	-7.961	-0.0046	Pass	
			-20	3.8	-11.530	-0.0067	Pass	
			-10	3.8	-8.168	-0.0048	Pass	
			0	3.8	-7.861	-0.0046	Pass	
		-10	10	3.8	-10.536	-0.0062	Pass	
			30	3.8	-11.816	-0.0069	Pass	
			40	3.8	-12.116	-0.0071	Pass	
			50	3.8	-13.647	-0.0080	Pass	
			3.46	-13.261	-0.0077	-2.5 to 2.5	Pass	
	1732.6	20	20	3.8	-21.966	-0.0127	Pass	
			3.8	-15.850	-0.0091	-2.5 to 2.5	Pass	
			4.35	-19.577	-0.0113	-2.5 to 2.5	Pass	
			-30	3.8	-19.655	-0.0113	Pass	
			-20	3.8	-15.063	-0.0087	Pass	
			-10	3.8	-16.229	-0.0094	Pass	

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	1752.6	10	3.8	-16.401	-0.0095	-2.5 to 2.5	Pass
		30	3.8	-16.680	-0.0096	-2.5 to 2.5	Pass
		40	3.8	-13.361	-0.0077	-2.5 to 2.5	Pass
		50	3.8	-12.774	-0.0074	-2.5 to 2.5	Pass
		20	3.46	-12.646	-0.0072	-2.5 to 2.5	Pass
		3.8	-17.059	-0.0097	-2.5 to 2.5	Pass	
		4.35	-17.145	-0.0098	-2.5 to 2.5	Pass	
		-30	3.8	-12.181	-0.0070	-2.5 to 2.5	Pass
		-20	3.8	-13.397	-0.0076	-2.5 to 2.5	Pass
		-10	3.8	-14.999	-0.0086	-2.5 to 2.5	Pass
		0	3.8	-16.136	-0.0092	-2.5 to 2.5	Pass
		10	3.8	-13.089	-0.0075	-2.5 to 2.5	Pass
		30	3.8	-9.942	-0.0057	-2.5 to 2.5	Pass
		40	3.8	-14.205	-0.0081	-2.5 to 2.5	Pass
		50	3.8	-13.998	-0.0080	-2.5 to 2.5	Pass
	1712.4	20	3.46	-10.972	-0.0064	-2.5 to 2.5	Pass
		3.8	-11.508	-0.0067	-2.5 to 2.5	Pass	
		4.35	-20.478	-0.0120	-2.5 to 2.5	Pass	
		-30	3.8	-17.281	-0.0101	-2.5 to 2.5	Pass
		-20	3.8	-15.607	-0.0091	-2.5 to 2.5	Pass
		-10	3.8	-14.942	-0.0087	-2.5 to 2.5	Pass
		0	3.8	-15.836	-0.0092	-2.5 to 2.5	Pass
		10	3.8	-14.784	-0.0086	-2.5 to 2.5	Pass
		30	3.8	-14.513	-0.0085	-2.5 to 2.5	Pass
		40	3.8	-16.873	-0.0099	-2.5 to 2.5	Pass
		50	3.8	-20.499	-0.0120	-2.5 to 2.5	Pass
		20	3.46	-11.401	-0.0066	-2.5 to 2.5	Pass
		3.8	-10.850	-0.0063	-2.5 to 2.5	Pass	
		4.35	-11.673	-0.0067	-2.5 to 2.5	Pass	
		-30	3.8	-8.833	-0.0051	-2.5 to 2.5	Pass
	HSUPA	-20	3.8	-8.218	-0.0047	-2.5 to 2.5	Pass
		-10	3.8	-12.553	-0.0072	-2.5 to 2.5	Pass
		0	3.8	-17.366	-0.0100	-2.5 to 2.5	Pass
		10	3.8	-16.136	-0.0093	-2.5 to 2.5	Pass
		30	3.8	-14.112	-0.0081	-2.5 to 2.5	Pass
		40	3.8	-13.461	-0.0078	-2.5 to 2.5	Pass
		50	3.8	-12.338	-0.0071	-2.5 to 2.5	Pass
		20	3.46	-9.313	-0.0053	-2.5 to 2.5	Pass
		3.8	-11.208	-0.0064	-2.5 to 2.5	Pass	
		4.35	-13.862	-0.0079	-2.5 to 2.5	Pass	
		-30	3.8	-11.473	-0.0065	-2.5 to 2.5	Pass
		-20	3.8	-10.836	-0.0062	-2.5 to 2.5	Pass
		-10	3.8	-8.490	-0.0048	-2.5 to 2.5	Pass
		0	3.8	-9.019	-0.0051	-2.5 to 2.5	Pass
		10	3.8	-4.299	-0.0025	-2.5 to 2.5	Pass
	1752.6	30	3.8	-5.701	-0.0033	-2.5 to 2.5	Pass
		40	3.8	-8.376	-0.0048	-2.5 to 2.5	Pass
		50	3.8	-5.157	-0.0029	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Band4

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3.1.1 Test Result

ENV	Band: 4					Verdict	
	Network	Mode	Frequency (MHz)	Modulation Characteristics			
				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	



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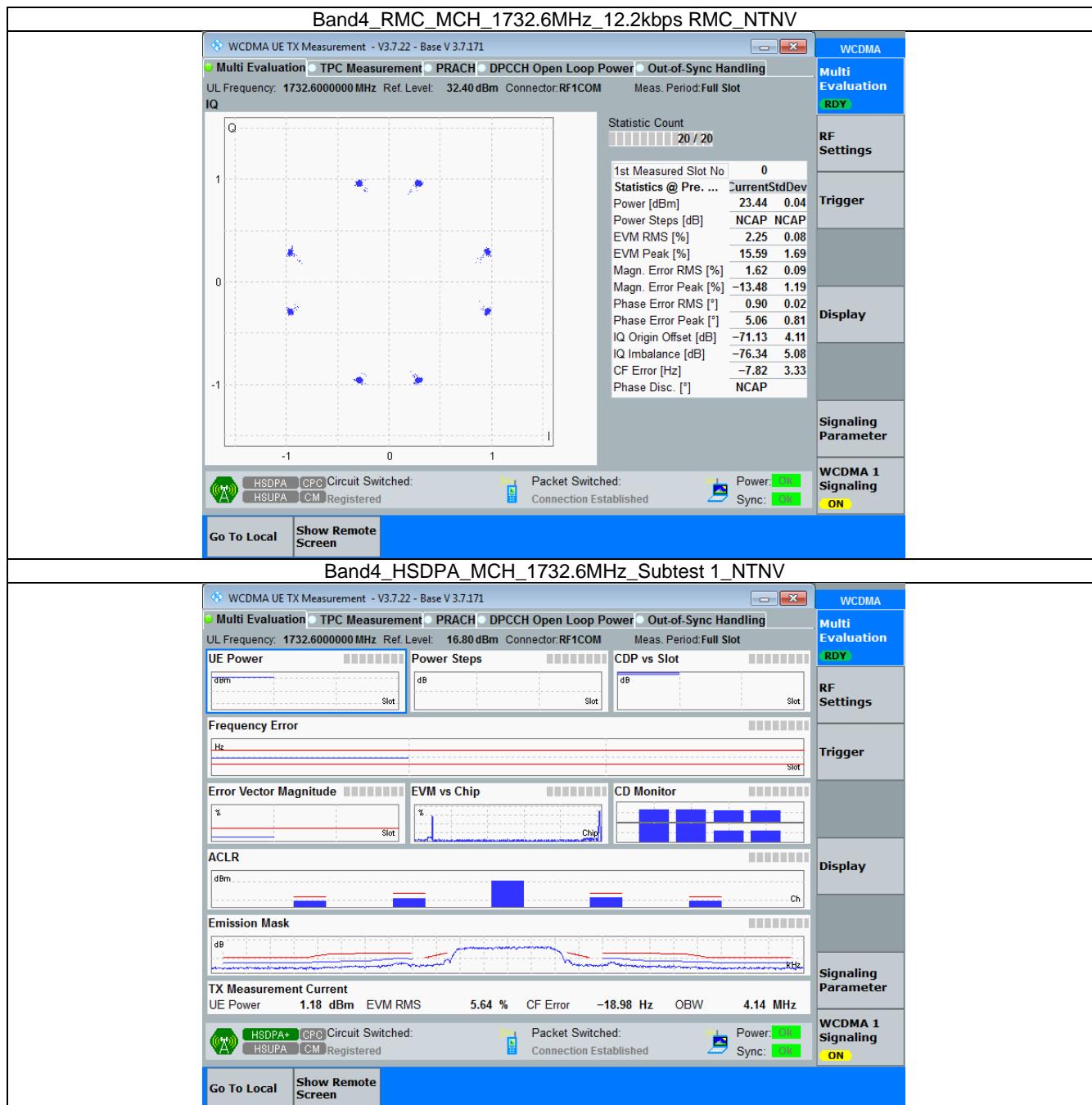
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3.1.2 Test Graph

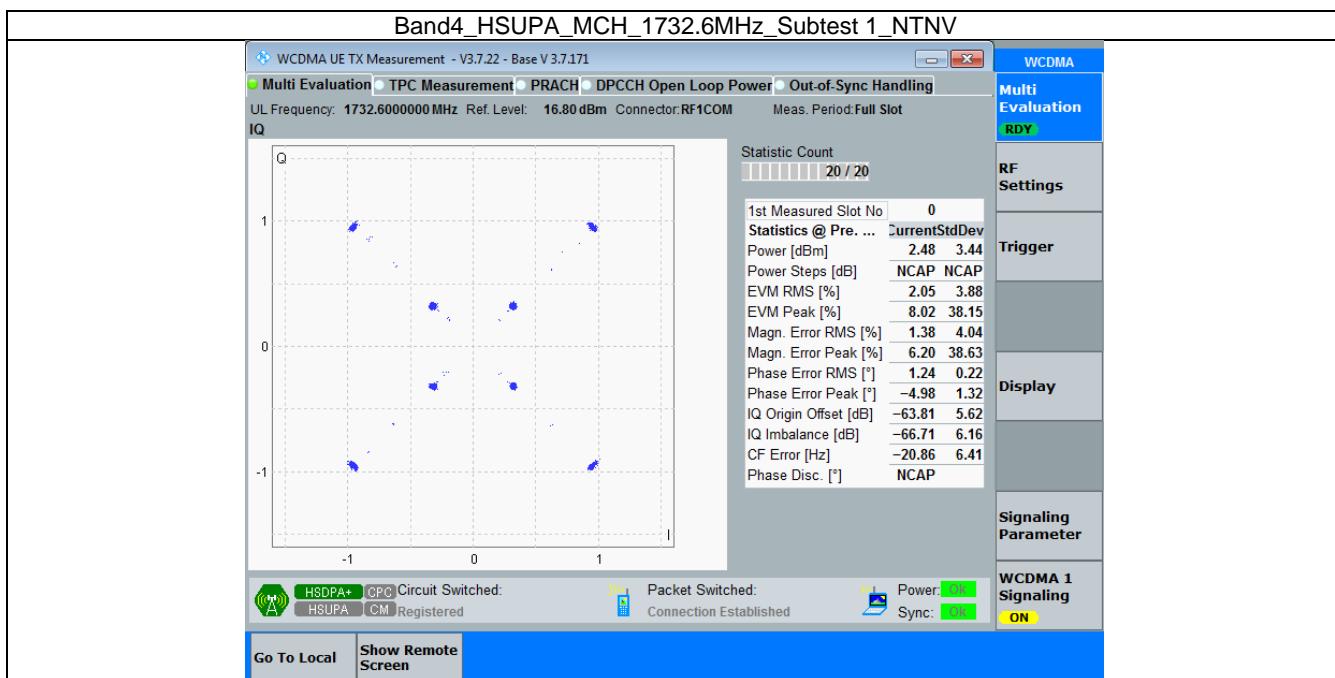


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4. 99% & 26dB Bandwidth

4.1 Band4_OBW

4.1.1 Test Result

ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict		
	Network	Subset		Result			
NTNV	RMC	12.2kbps RMC	1712.4	4.171	Pass		
			1732.6	4.175	Pass		
			1752.6	4.187	Pass		
	HSDPA	Subtest 1	1712.4	4.254	Pass		
			1732.6	4.231	Pass		
			1752.6	4.244	Pass		
	HSUPA	Subtest 1	1712.4	4.254	Pass		
			1732.6	4.240	Pass		
			1752.6	4.262	Pass		

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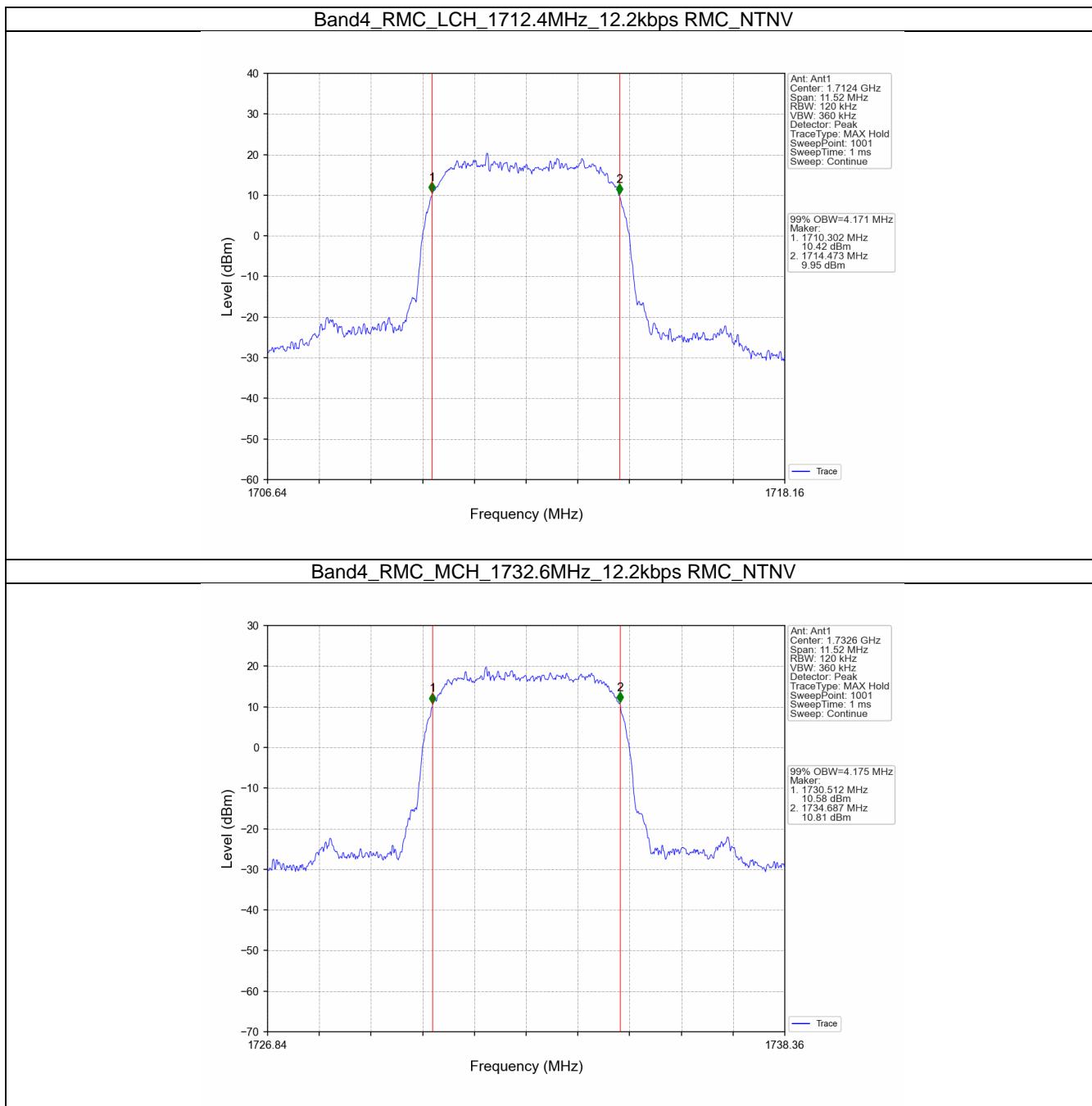


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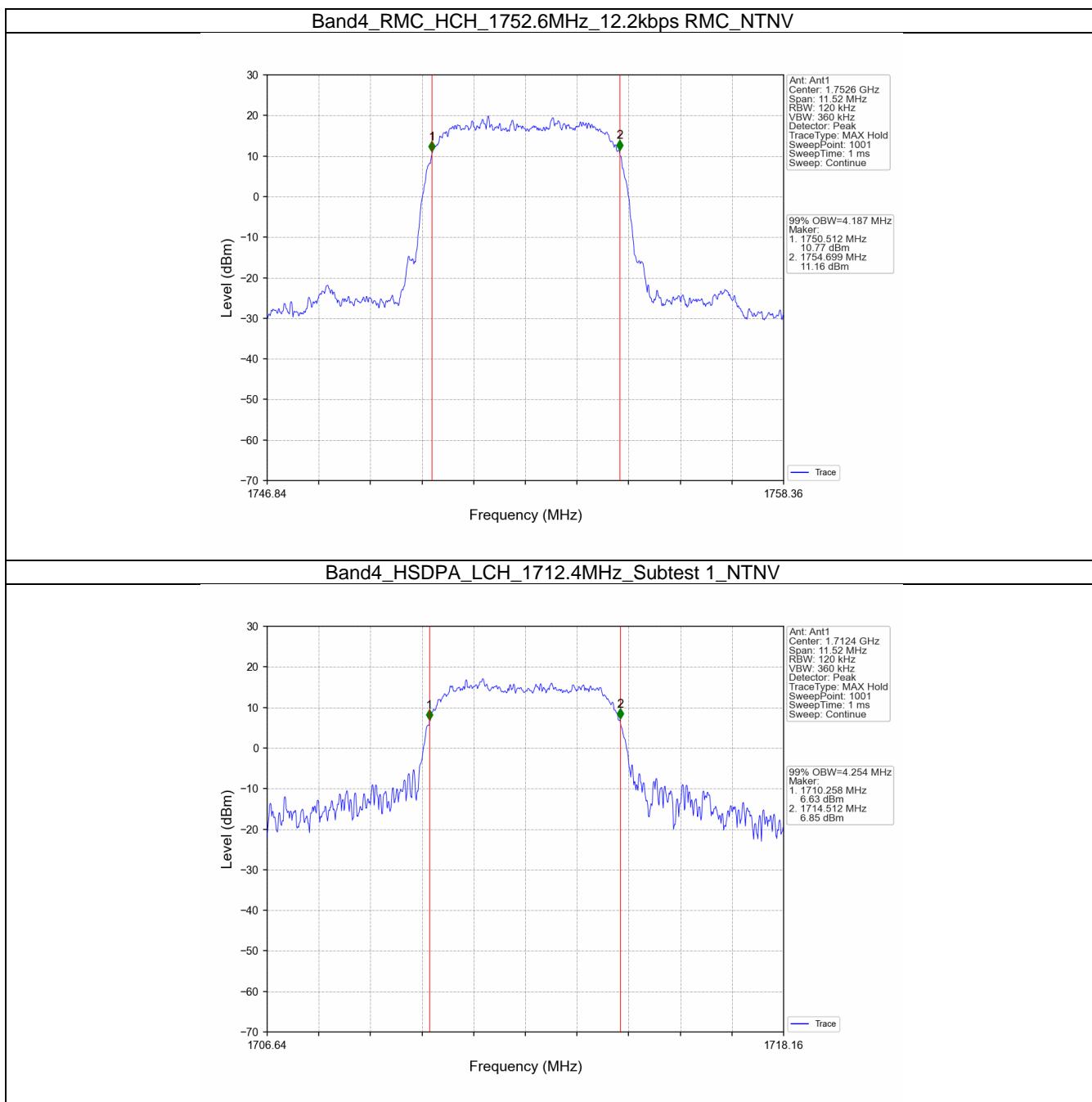
4.1.2 Test Graph



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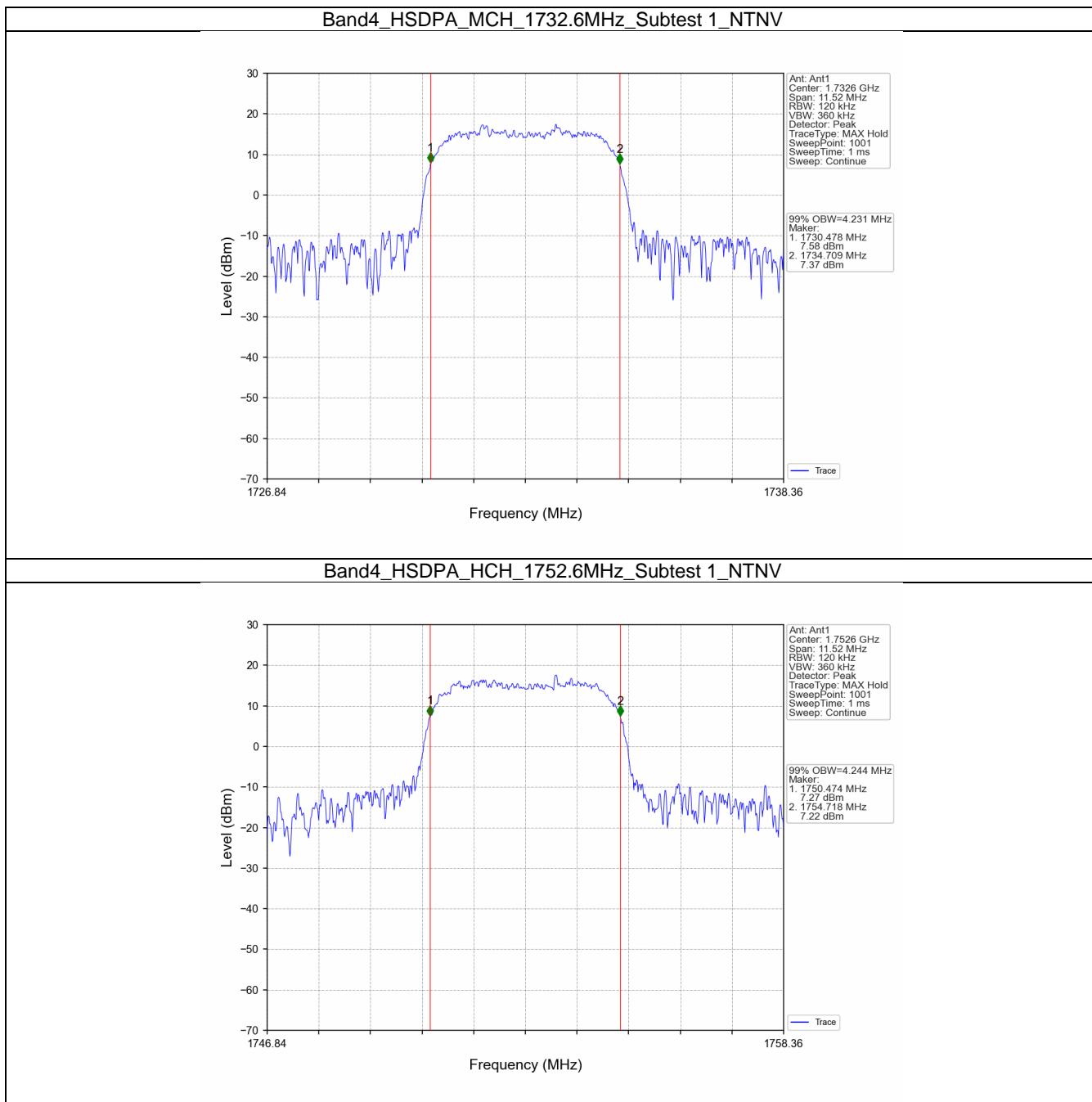




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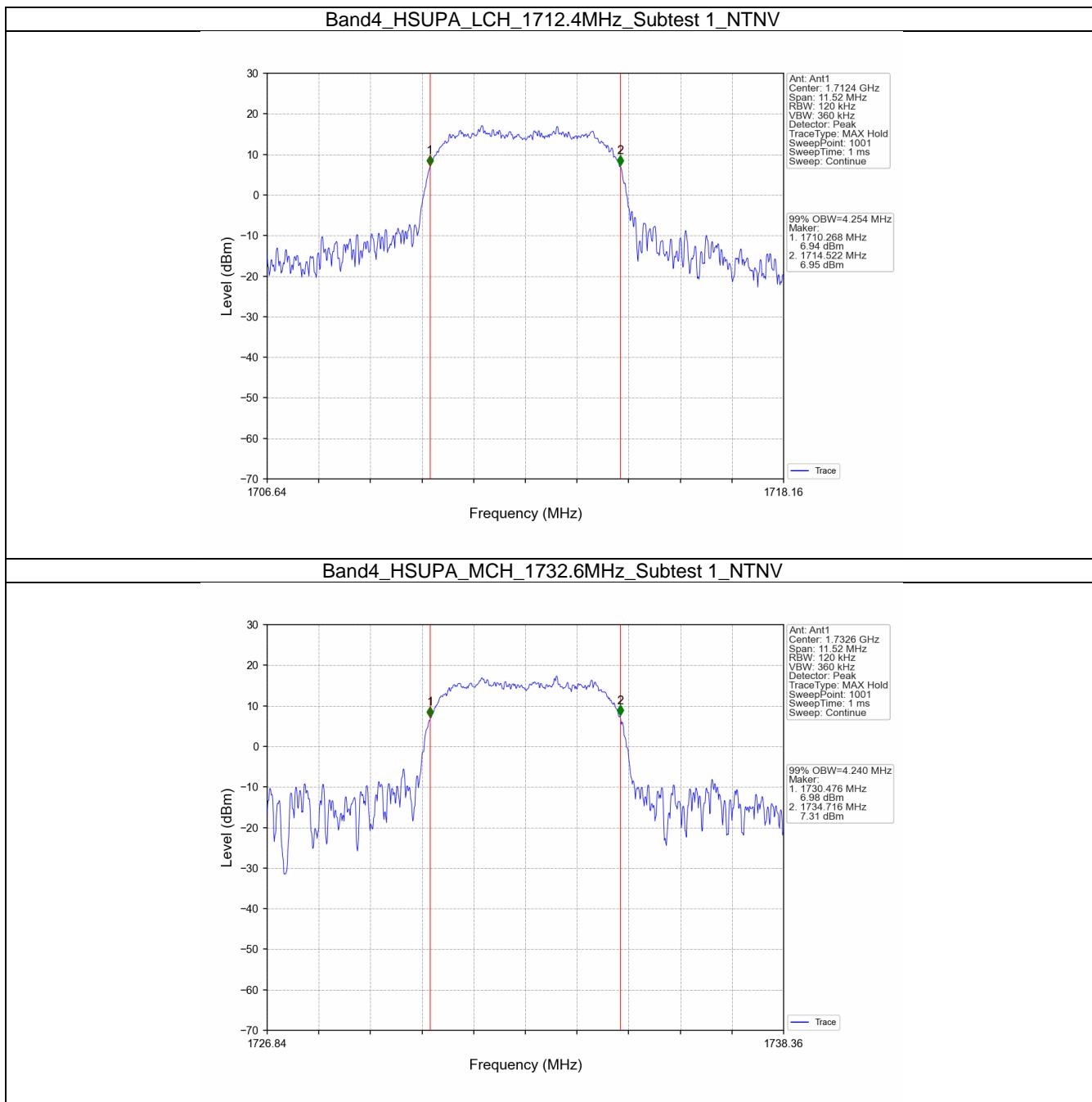




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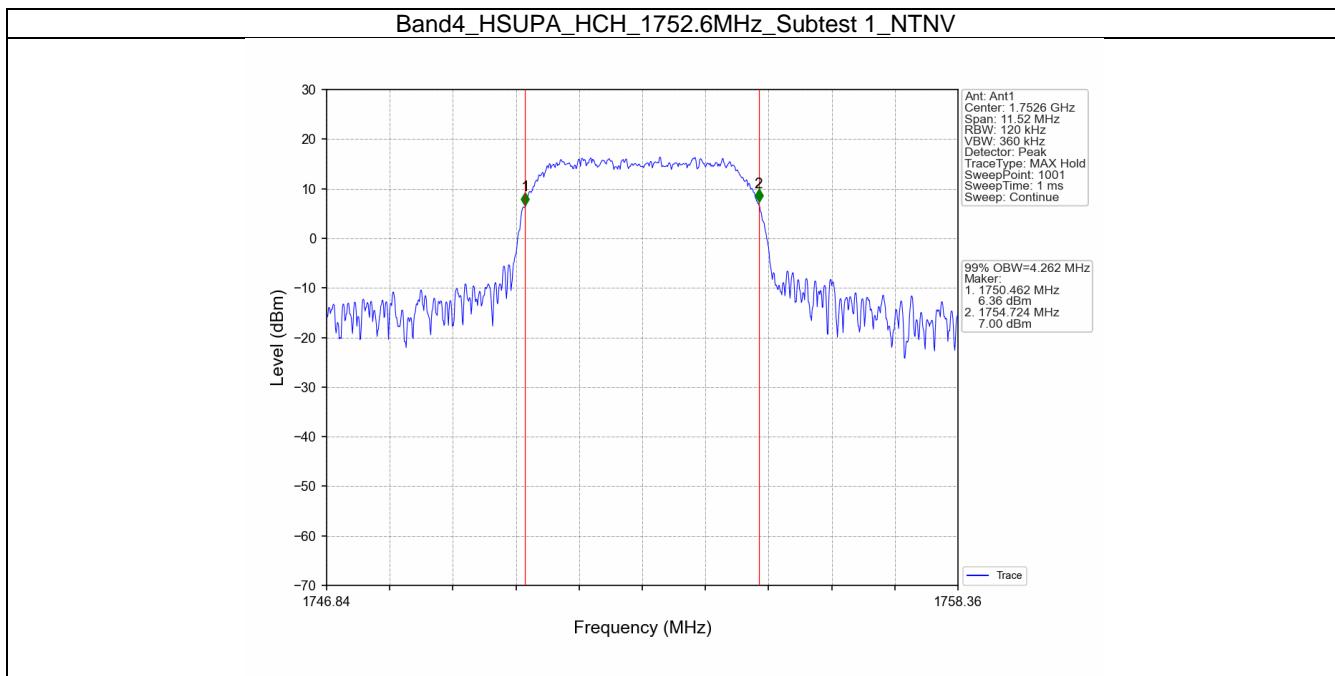




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4.2 Band4_XDB

4.2.1 Test Result

ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict		
	Network	Subset					
	NTNV	RMC	1712.4	4.705	Pass		
NTNV			1732.6	4.722	Pass		
			1752.6	4.722	Pass		
HSDPA		1712.4	5.656	Pass			
		1732.6	4.948	Pass			
		1752.6	5.009	Pass			
NTNV		HSUPA	1712.4	6.709	Pass		
			1732.6	6.952	Pass		
			1752.6	6.737	Pass		



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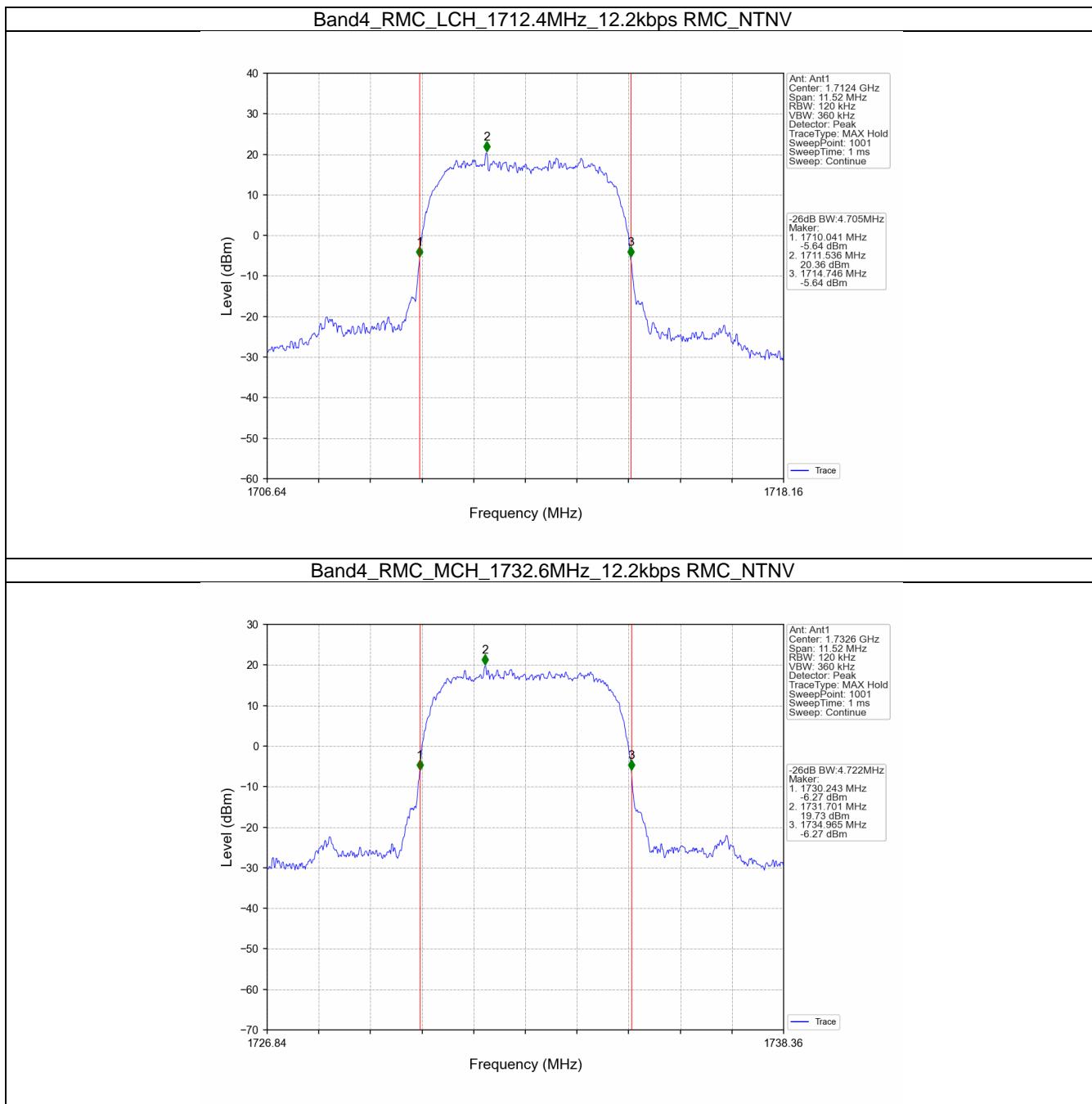
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4.2.2 Test Graph



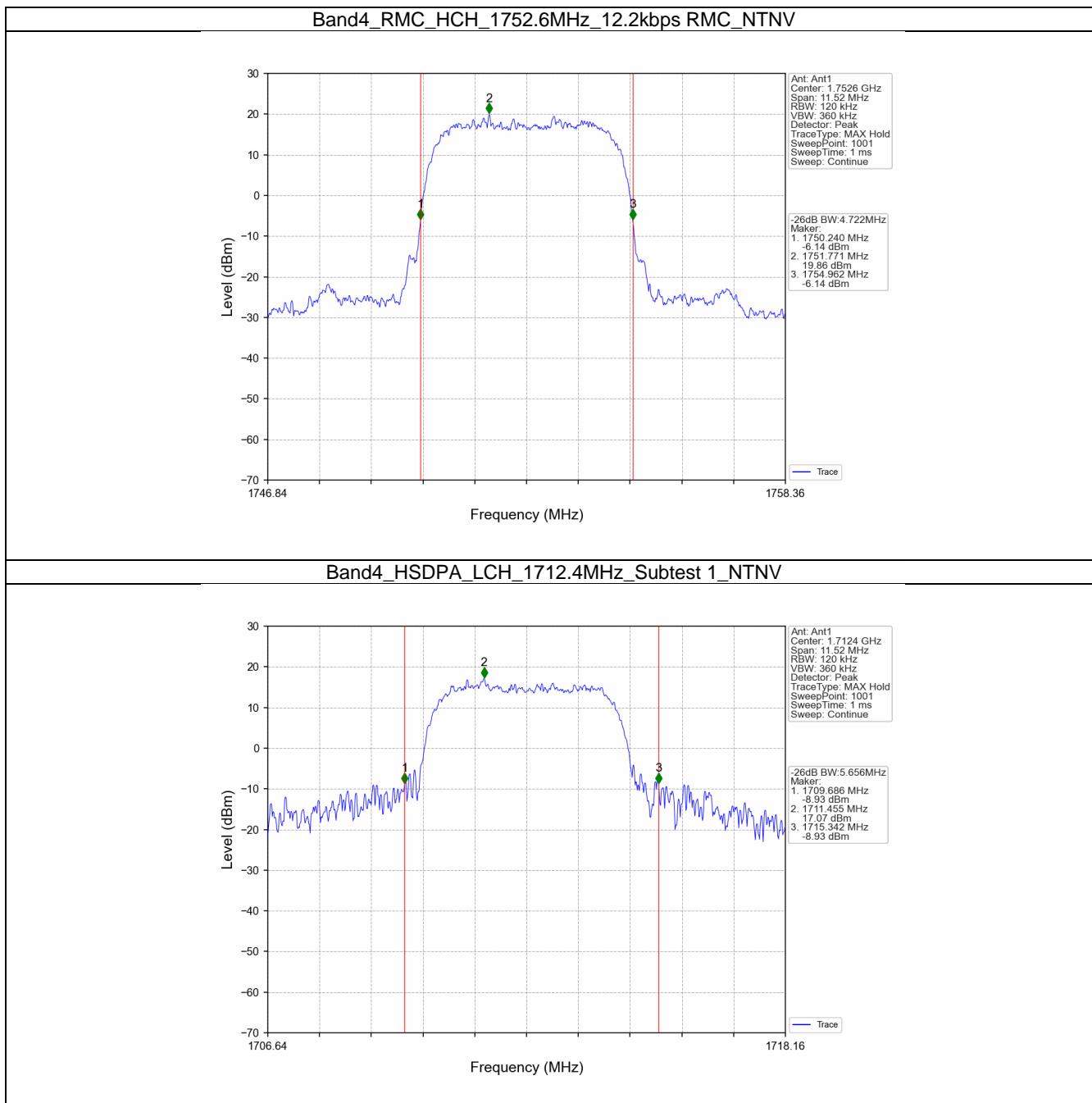
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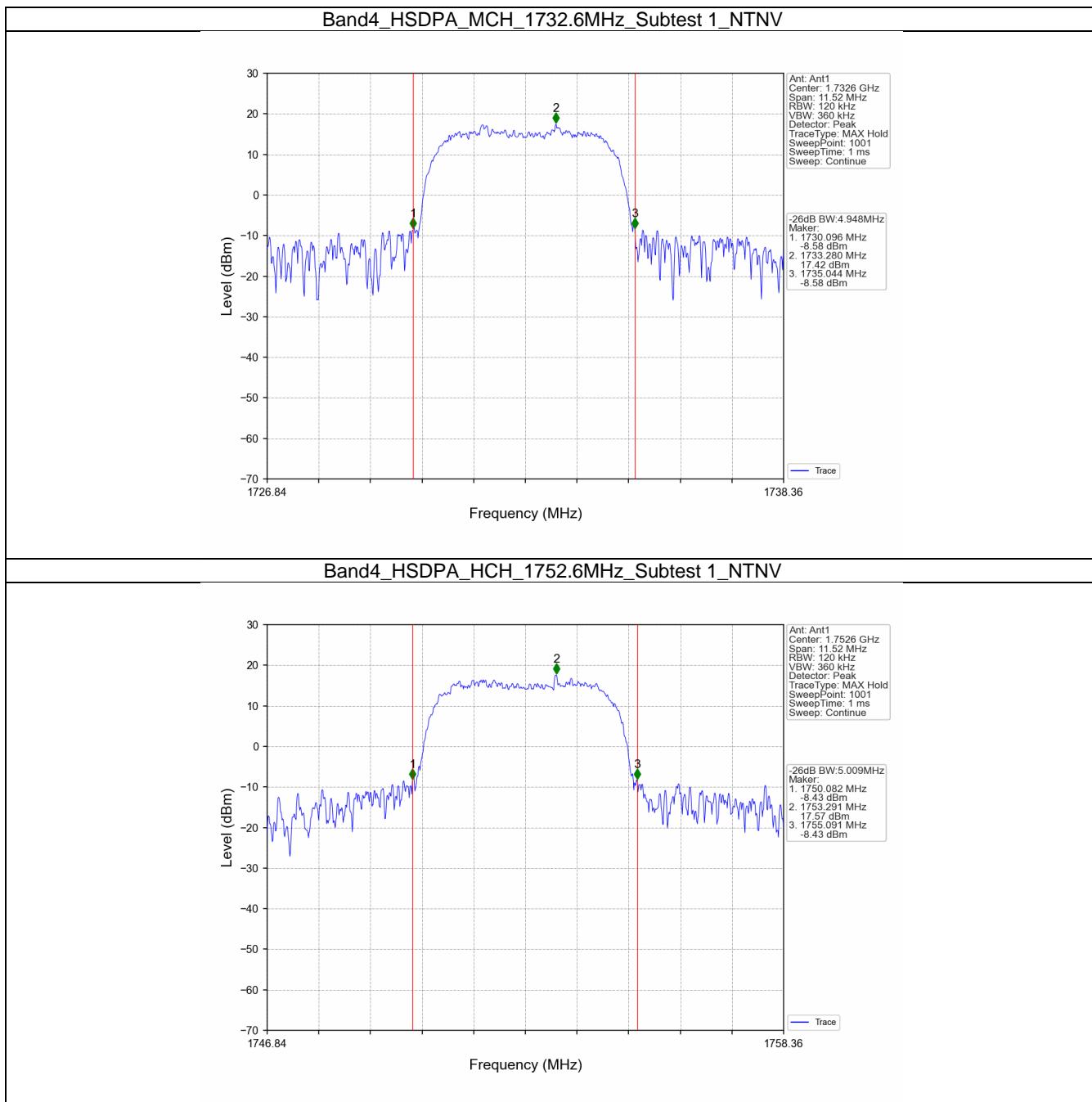
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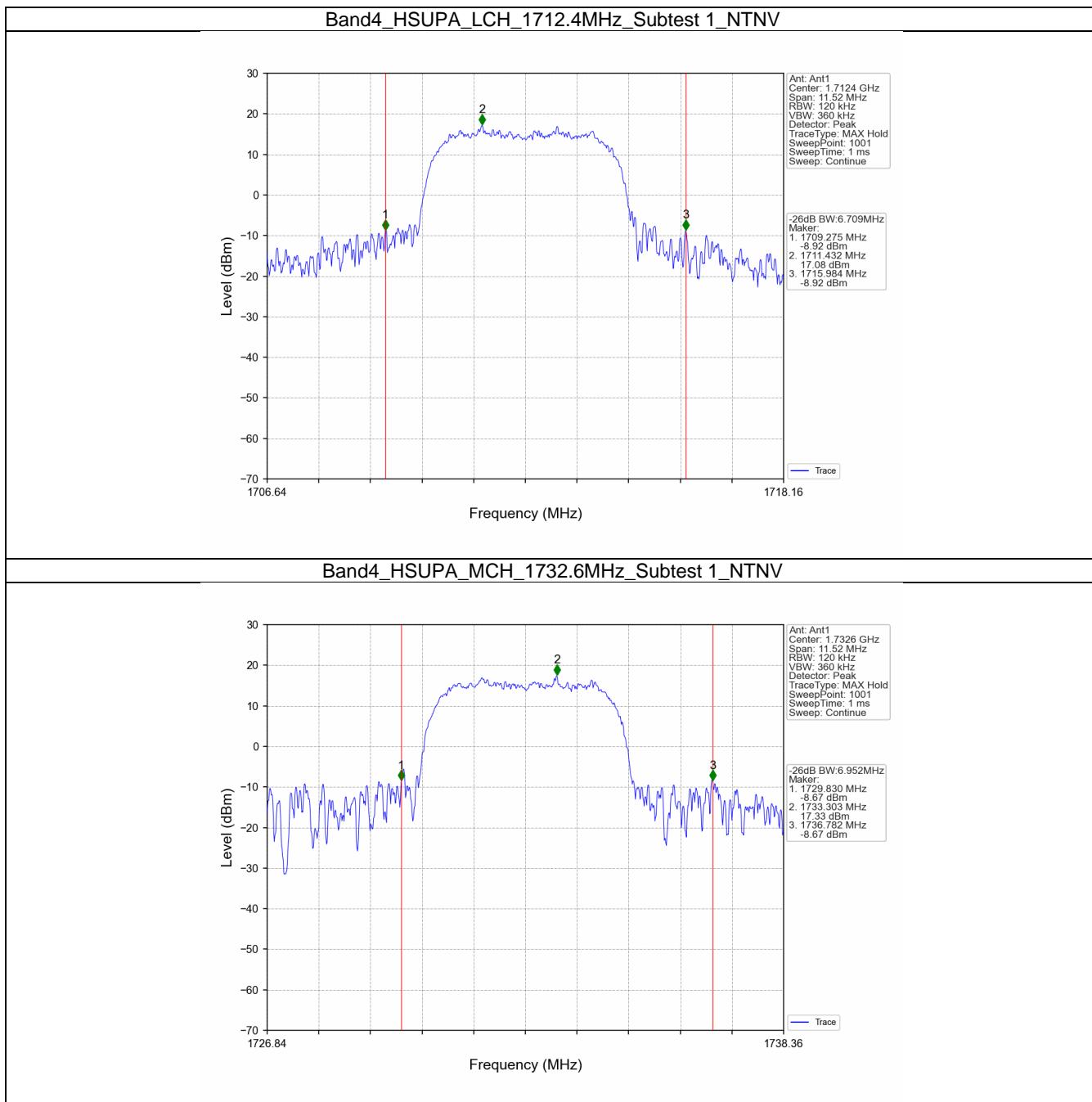
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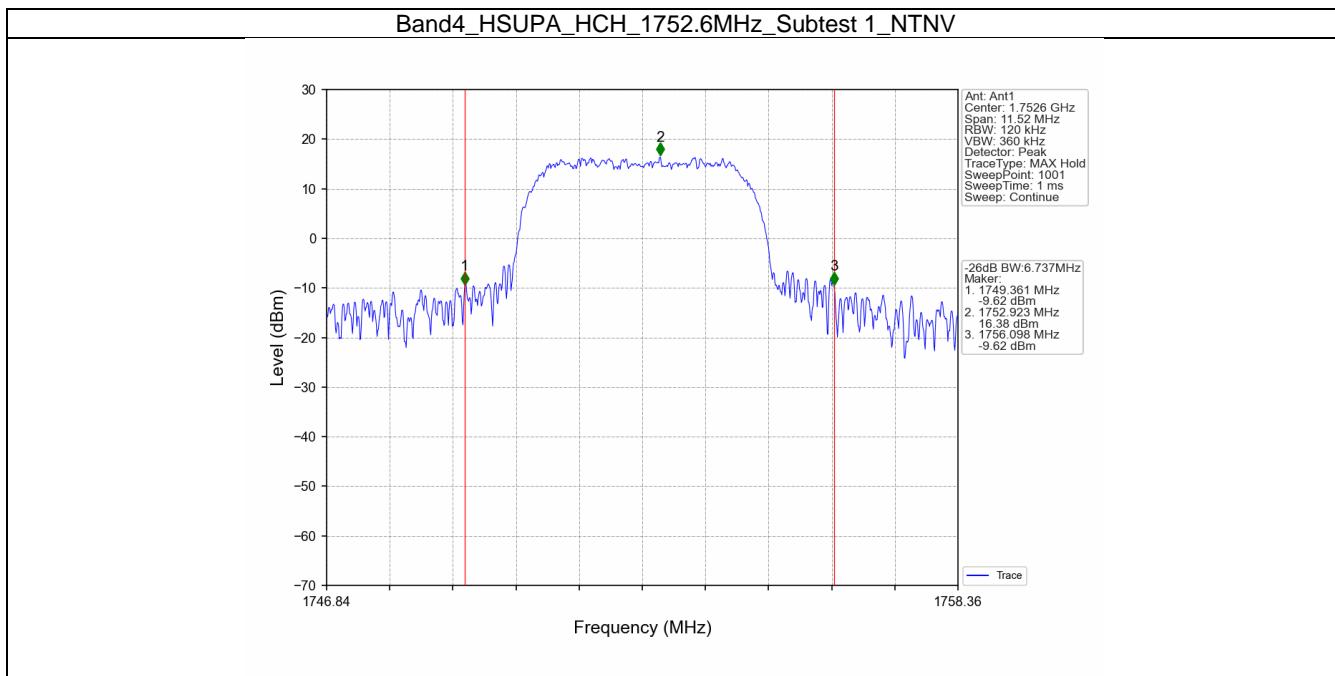
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5. Peak-Average Ratio

5.1 Band4

5.1.1 Test Result

ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict	
	Network	Subset		Result	Limit		
NTNV	RMC	12.2kbps RMC	1712.4	3.08	<=13	Pass	
			1732.6	3.00	<=13	Pass	
			1752.6	3.03	<=13	Pass	
	HSDPA	Subtest 1	1712.4	6.06	<=13	Pass	
			1732.6	5.99	<=13	Pass	
			1752.6	5.98	<=13	Pass	
	HSUPA	Subtest 1	1712.4	6.08	<=13	Pass	
			1732.6	5.99	<=13	Pass	
			1752.6	6.03	<=13	Pass	

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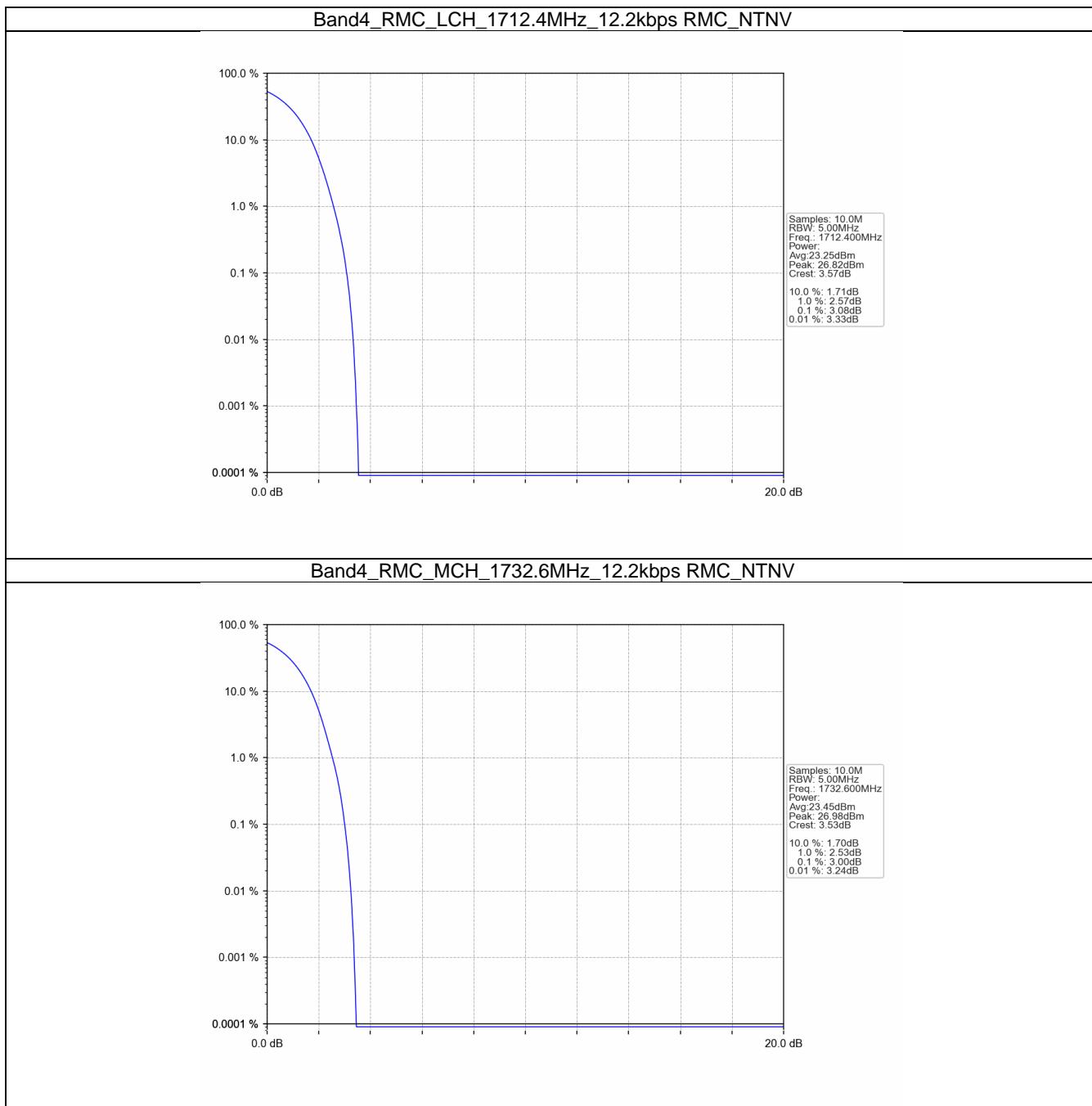


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5.1.2 Test Graph

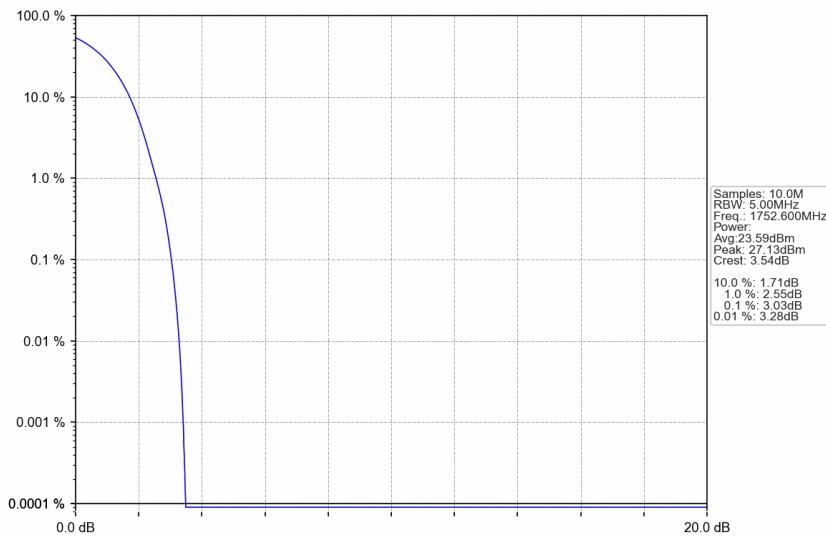


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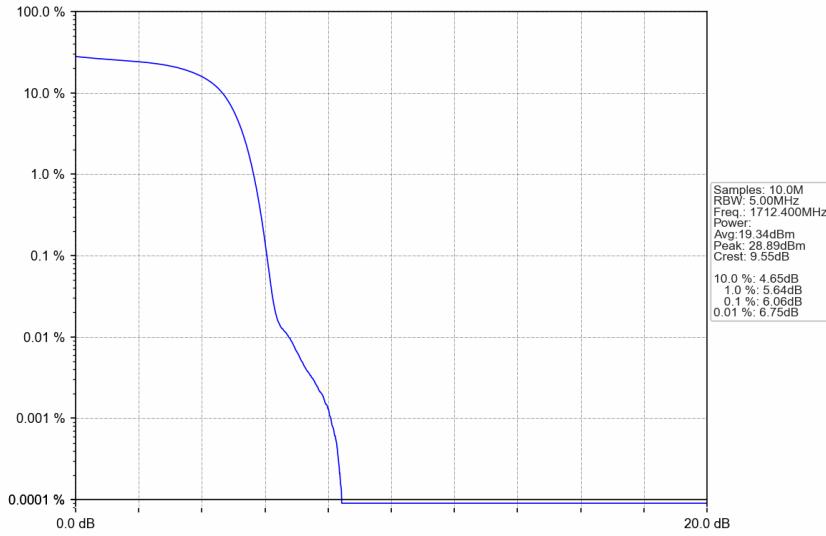
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Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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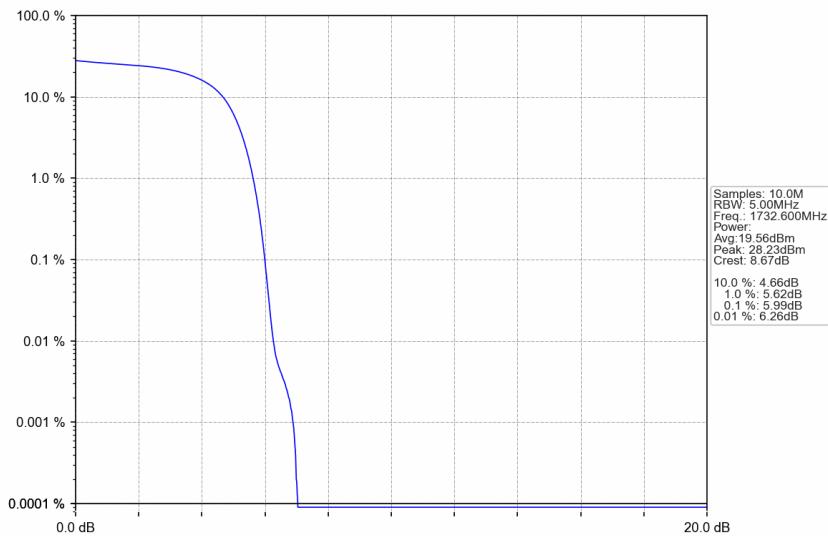
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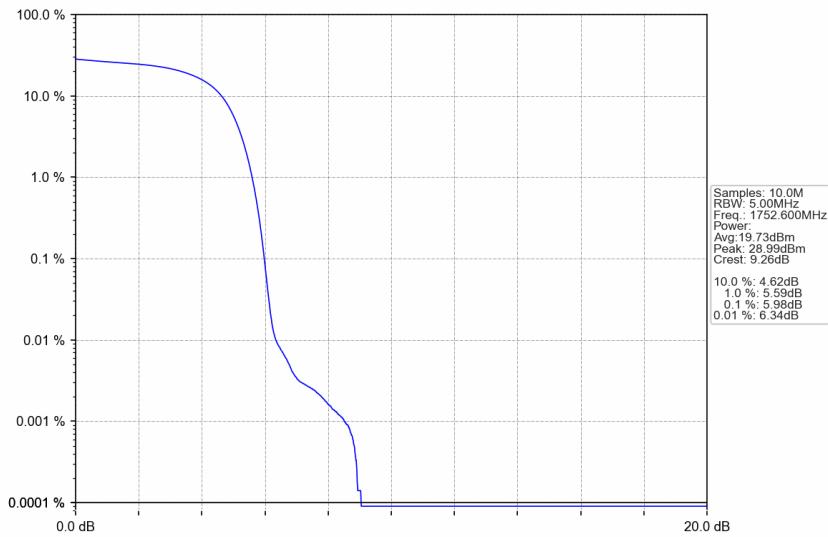
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Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



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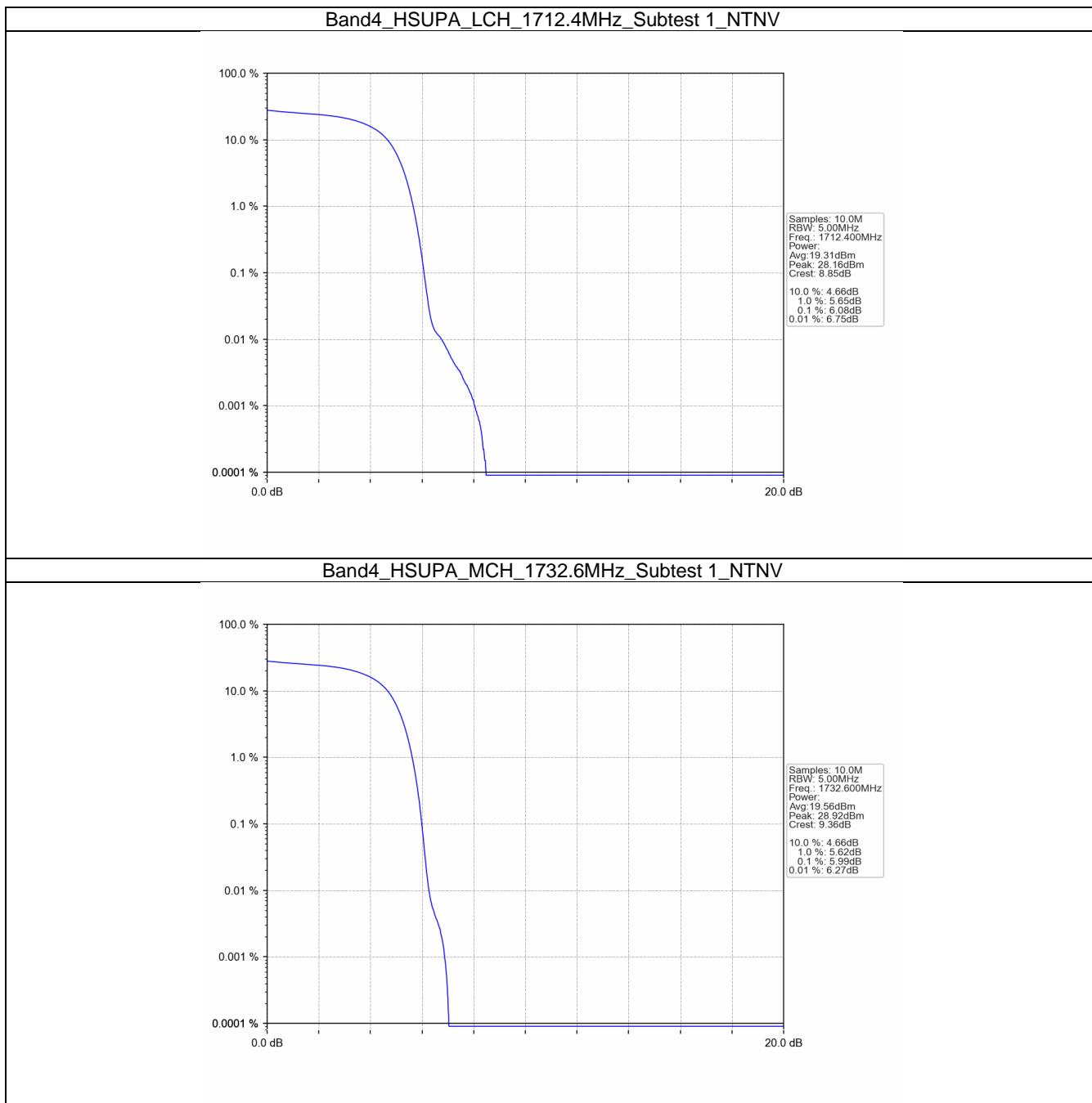
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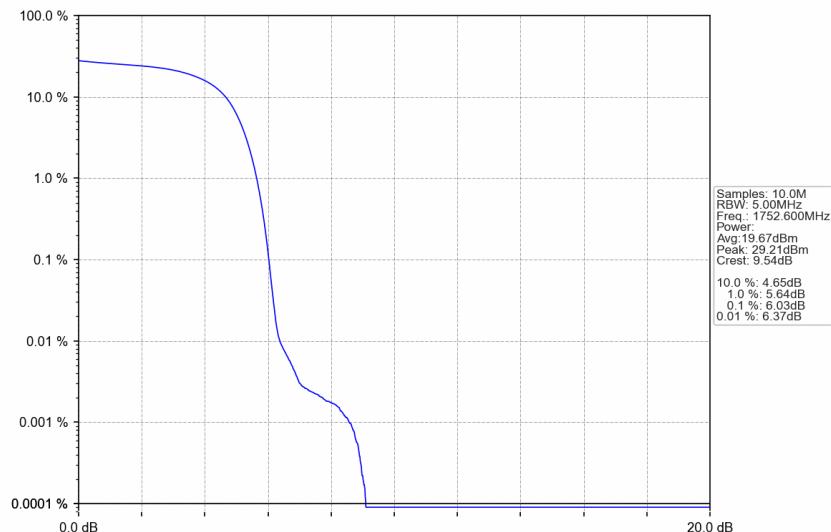


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Band4 HSUPA HCH 1752.6MHz Subtest 1 NTV



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Test Report Form Version: Rev01

Member of the SGS Group (SGS SA)

6. Spurious Emission

6.1 Band4

6.1.1 Test Result

ENV	Band: 4			Spurious Emission	Verdict		
	Mode		Frequency (MHz)				
	Network	Subset					
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		

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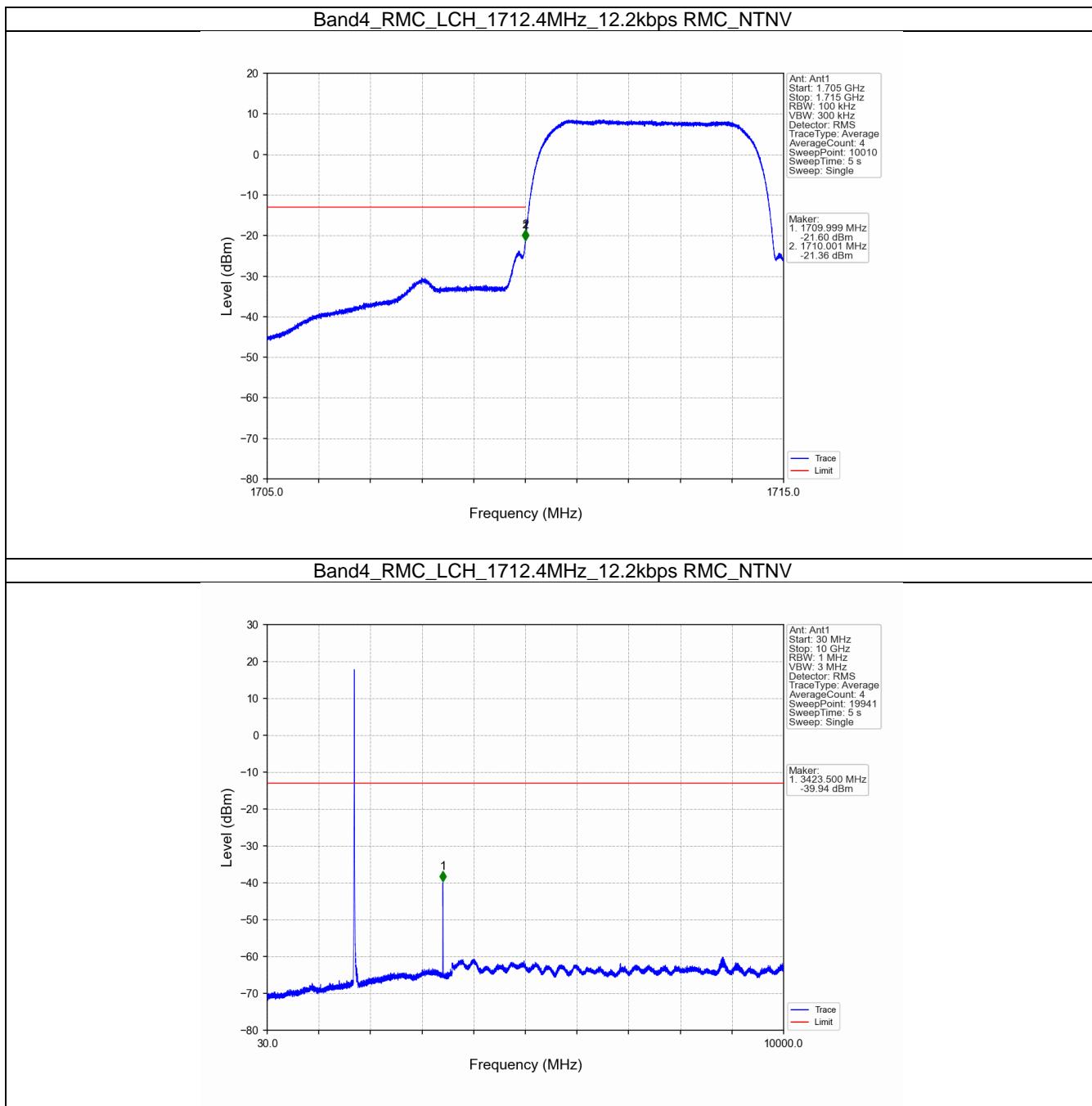


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6.1.2 Test Graph



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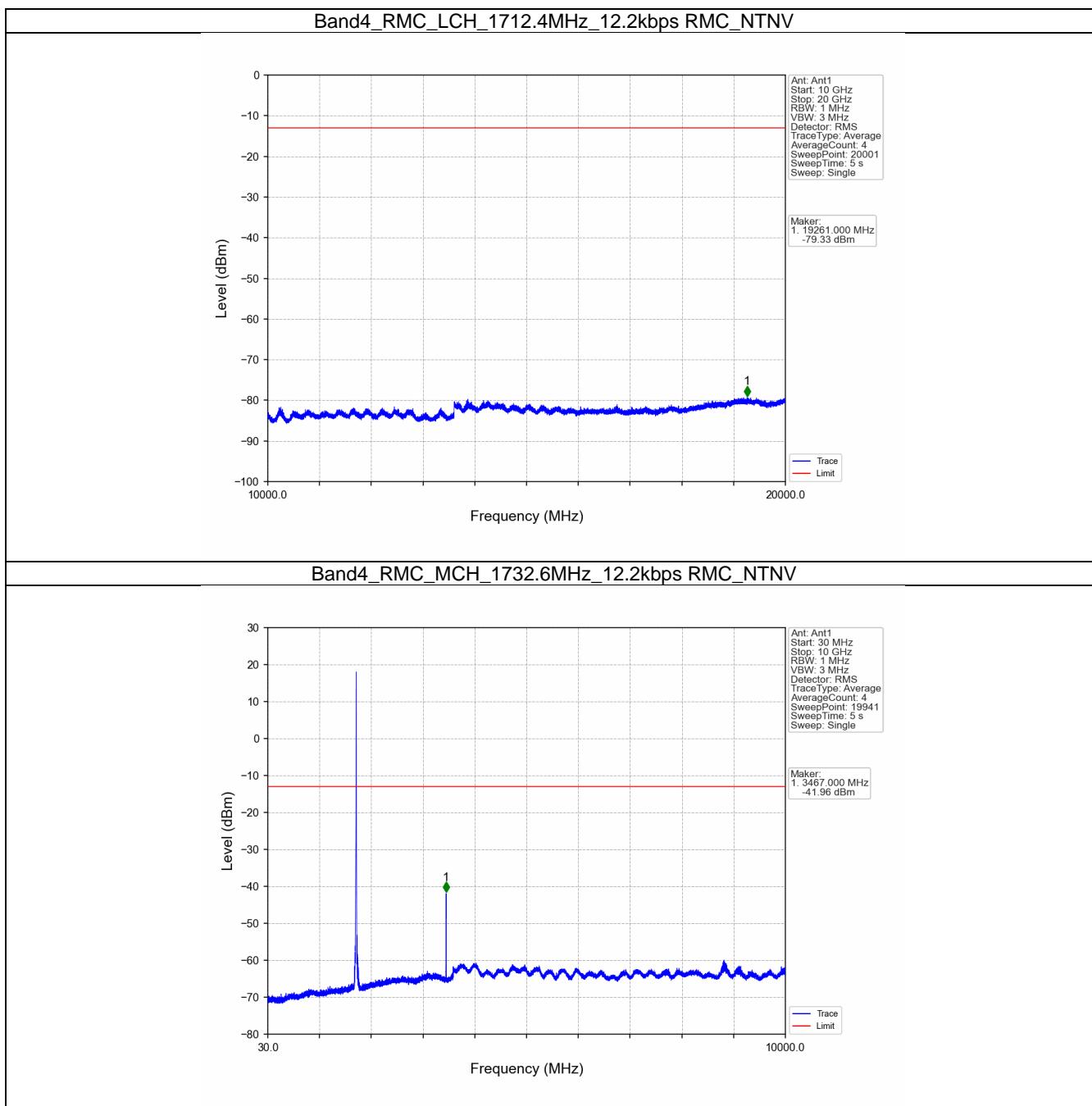
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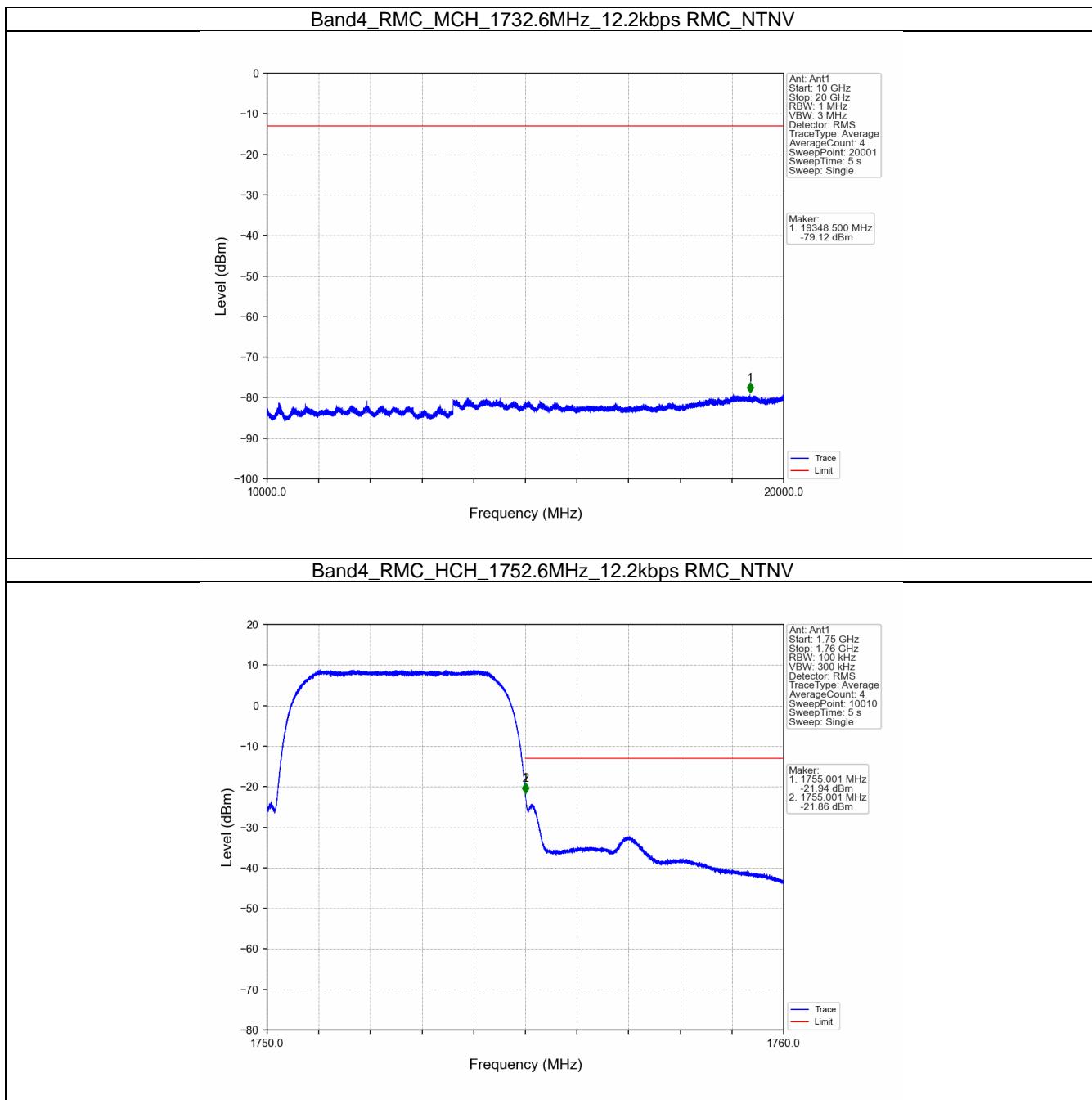
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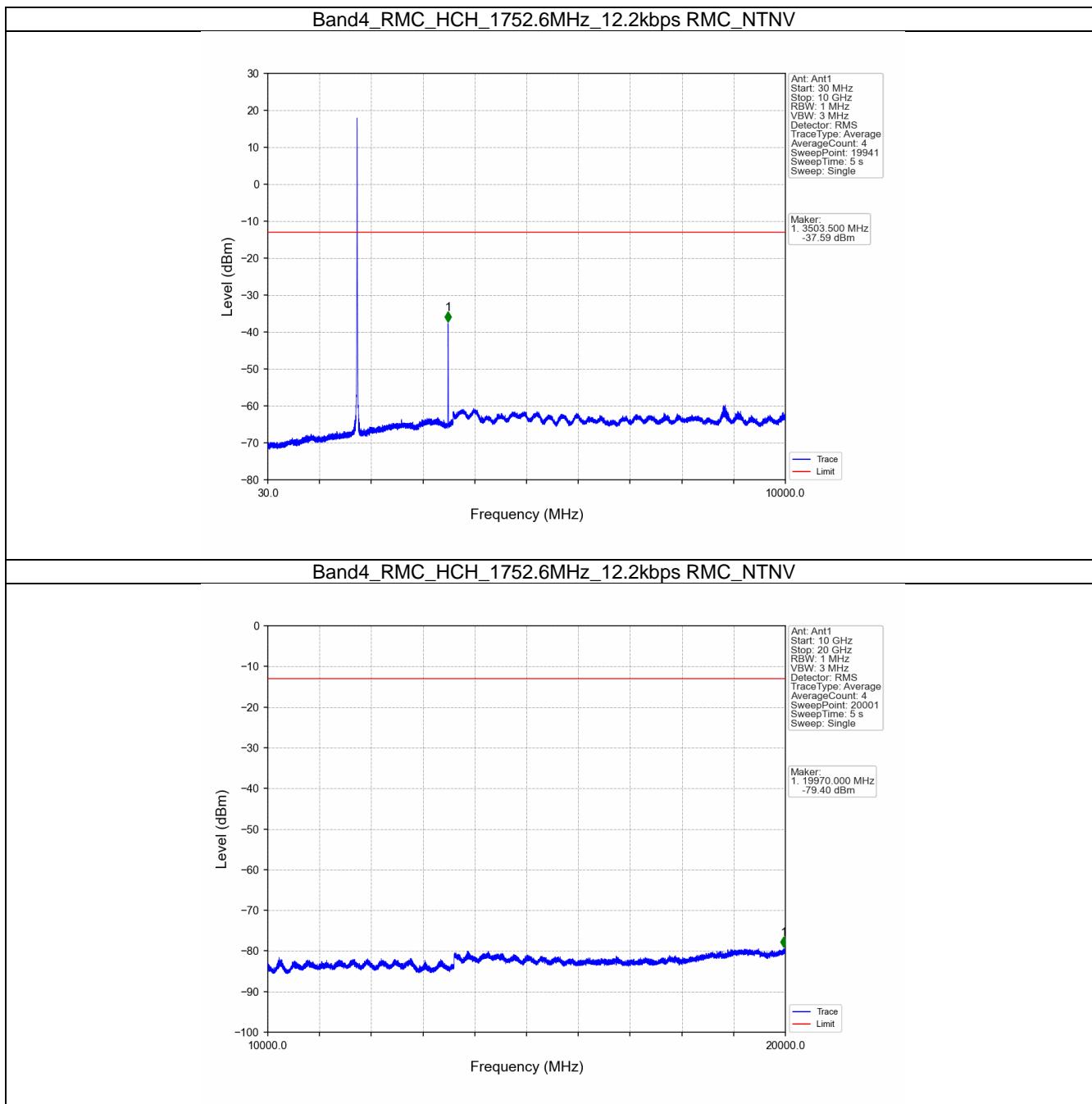
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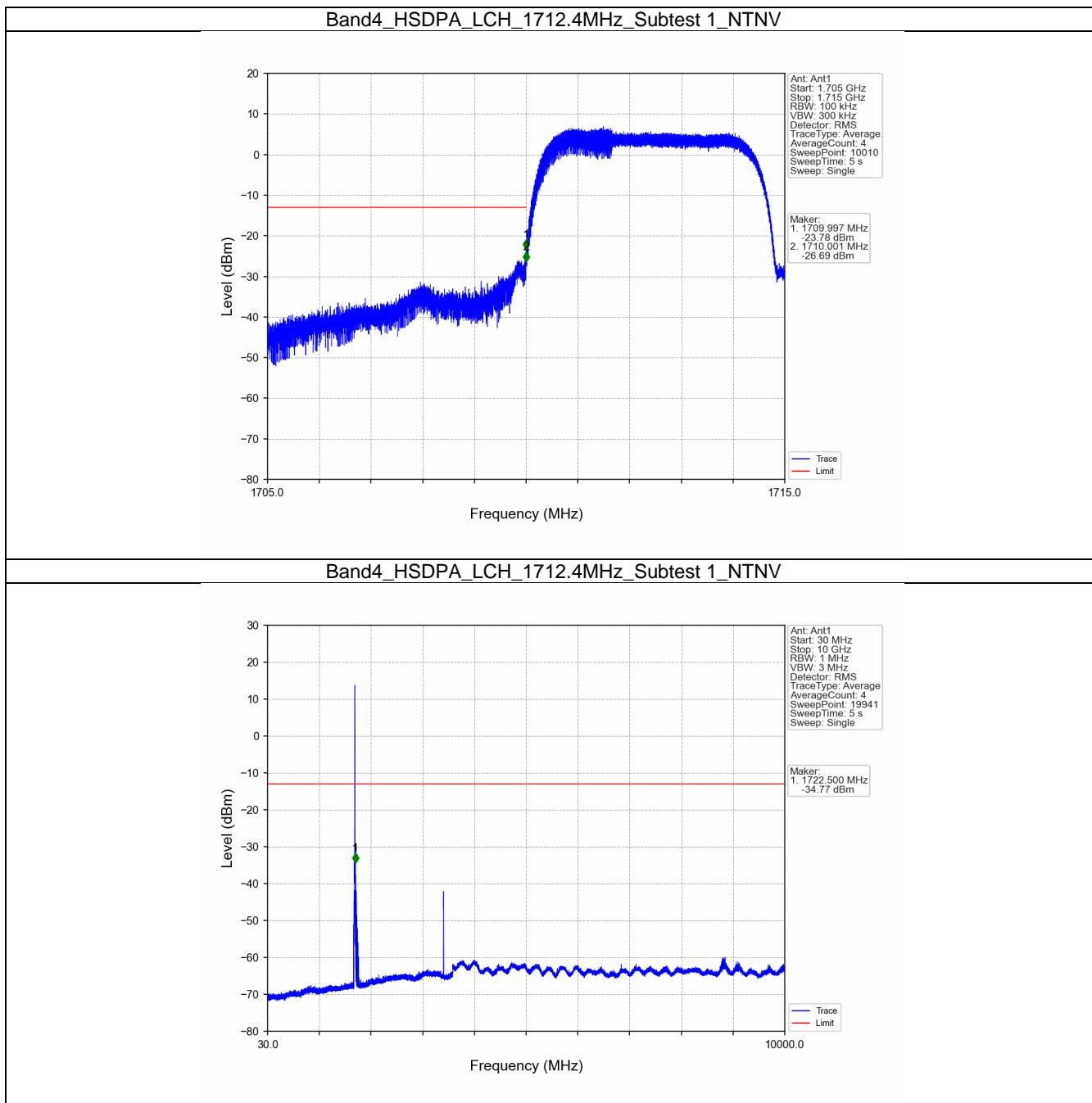
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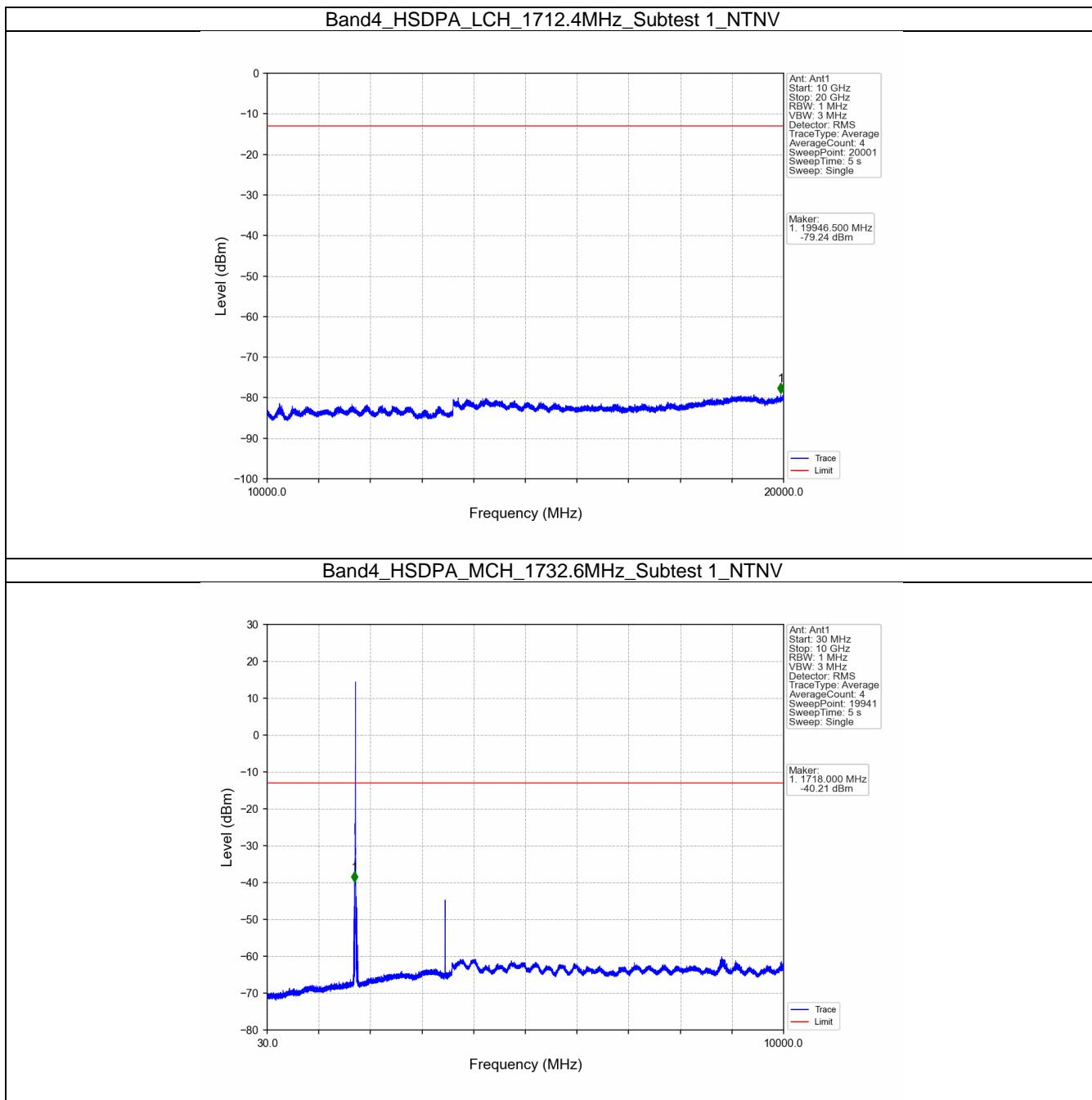
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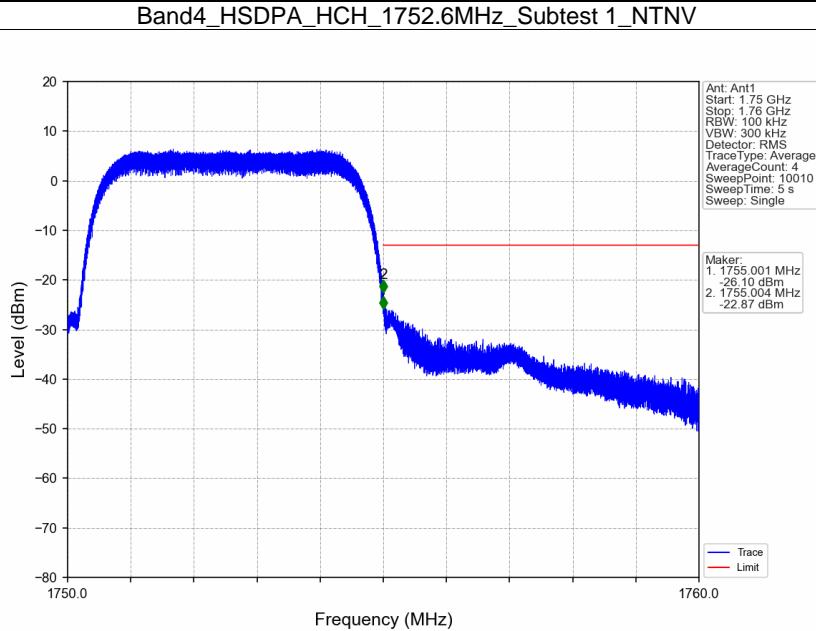
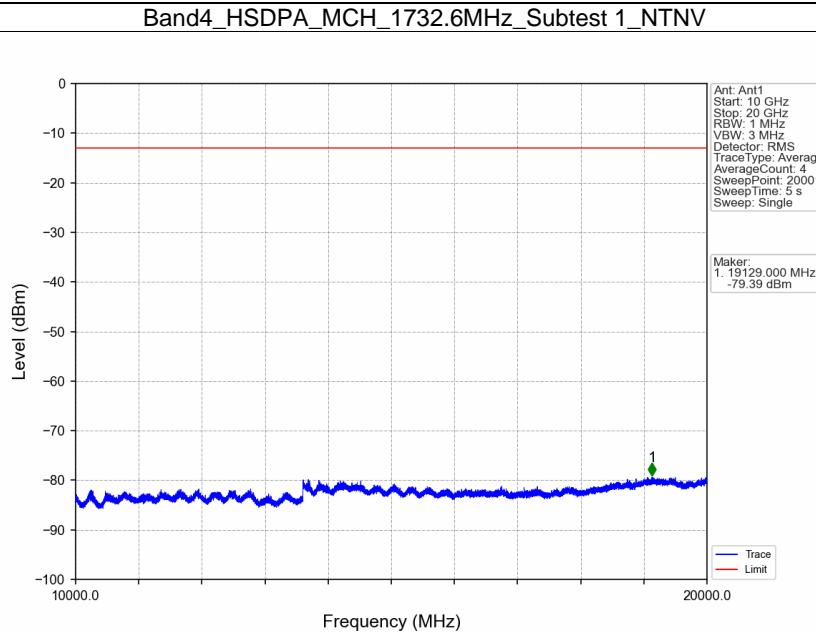
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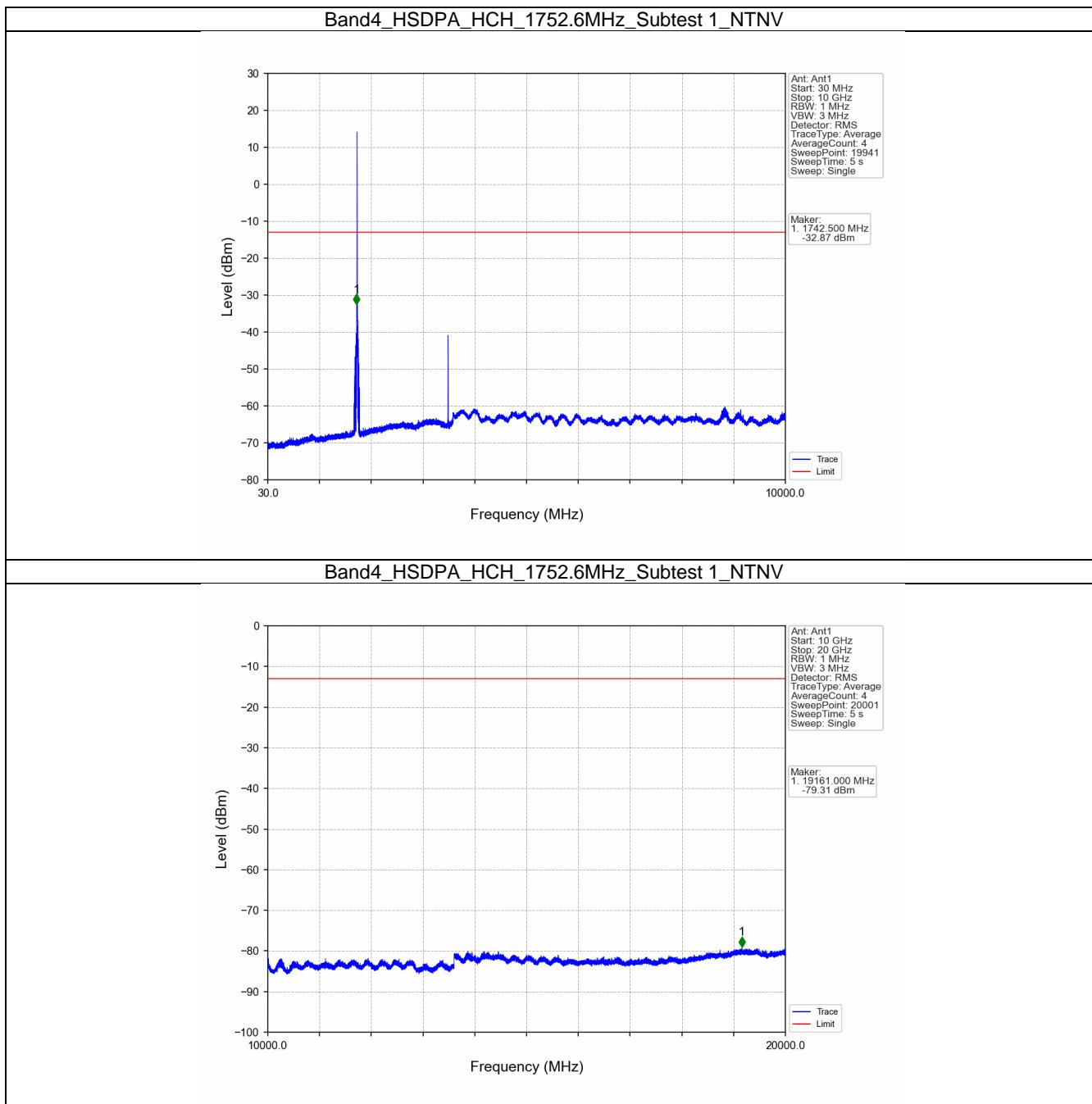
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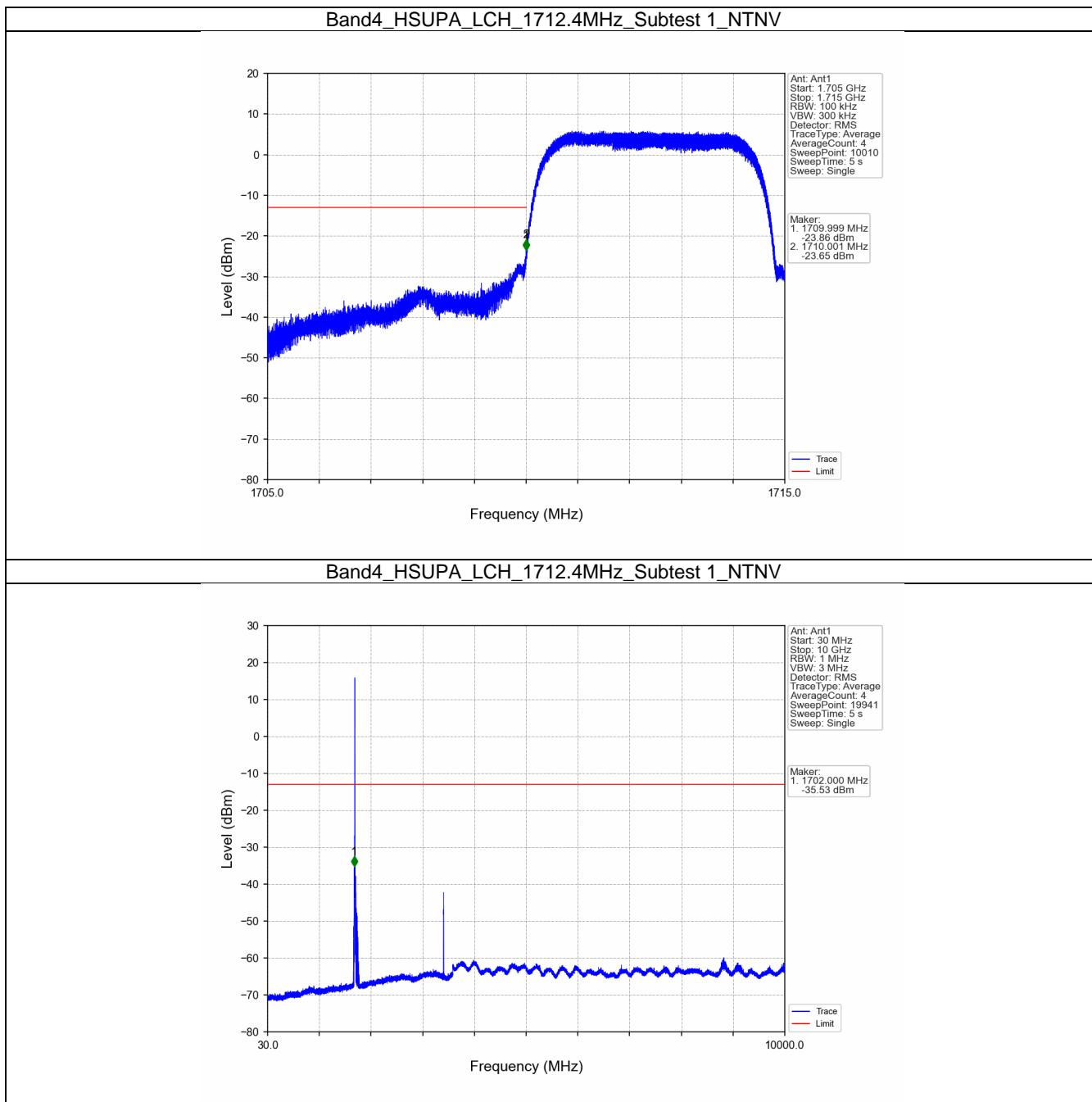




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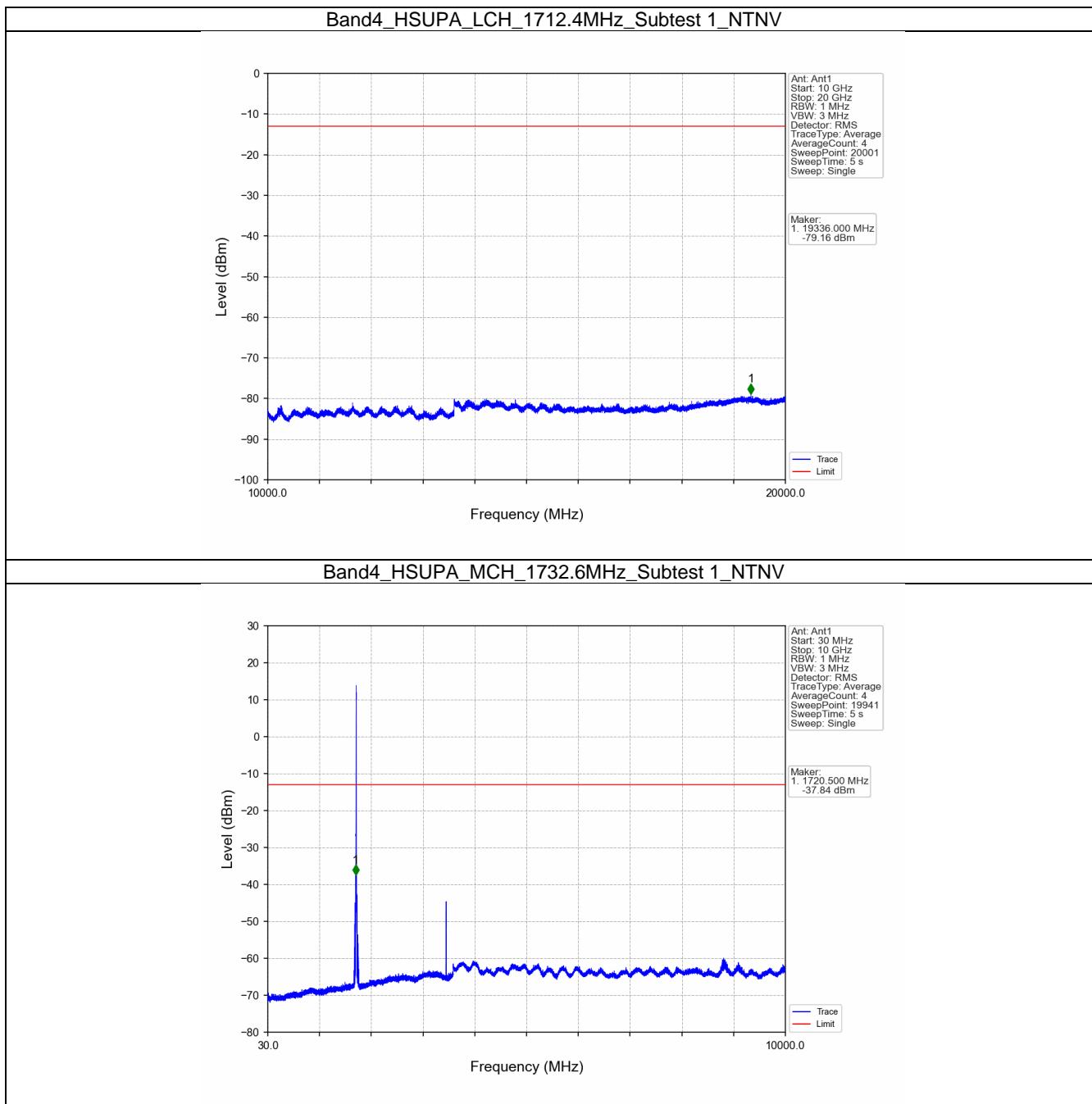




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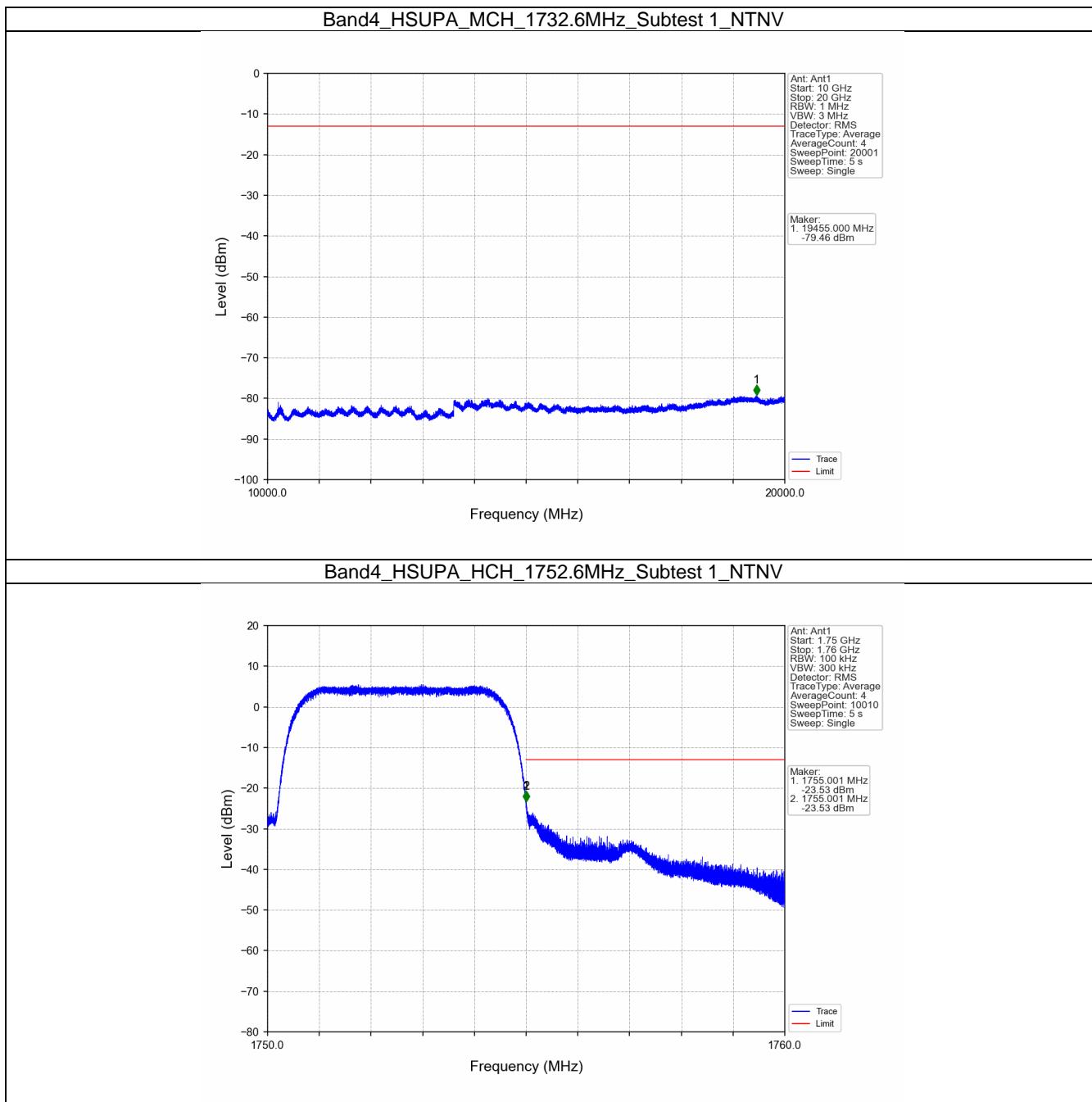
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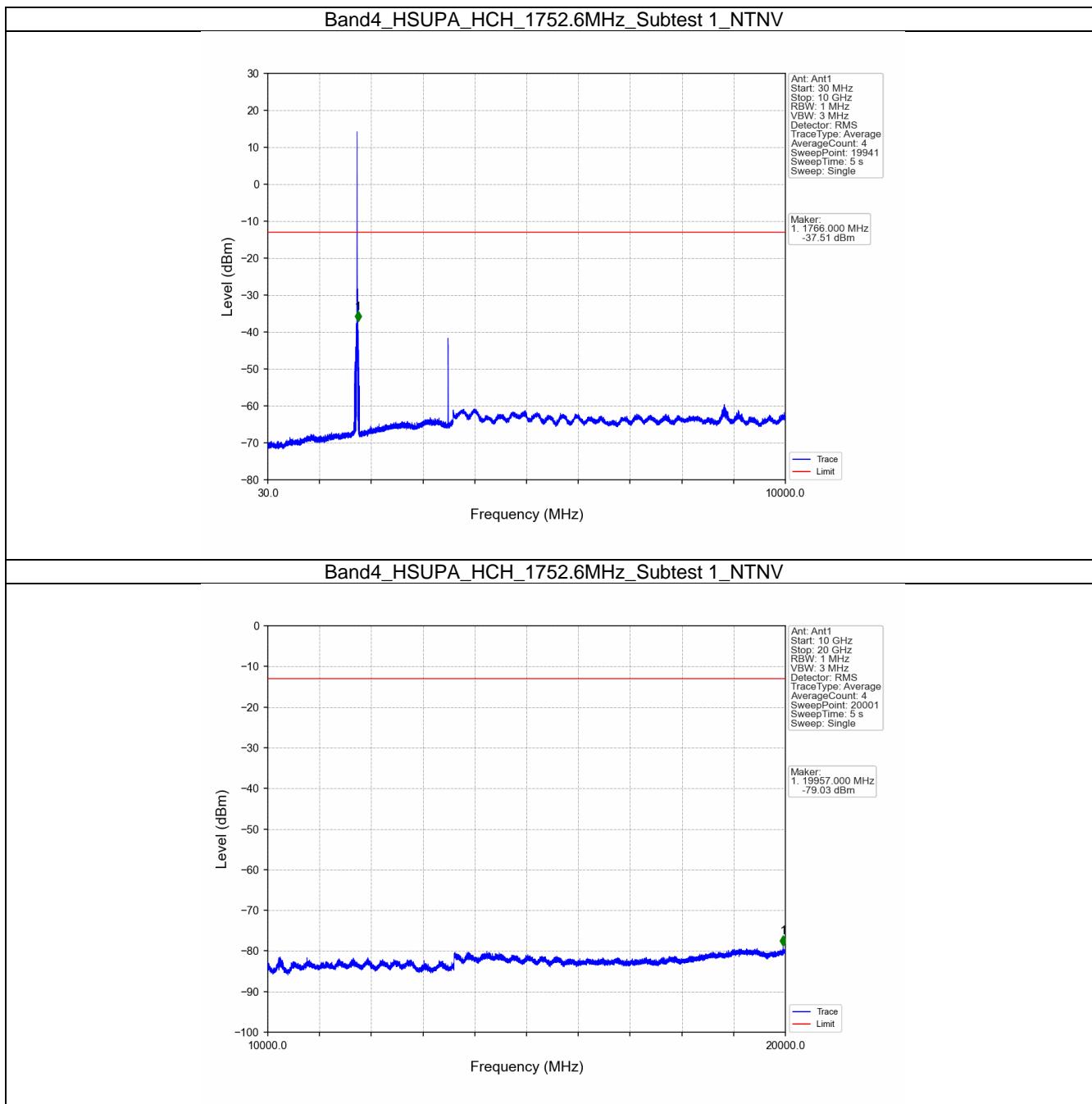
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