



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.4

WCDMA Band IV



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Shenzhen Branch Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band IV_EIRP

1.1.1 Test Result_Ant1

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	24.64	0.00	24.64	<=30	Pass		
			1732.6	24.63	0.00	24.63	<=30	Pass		
			1752.6	24.56	0.00	24.56	<=30	Pass		
	HSDPA	Subtest 1-4	1712.4	22.43	0.00	22.43	<=30	Pass		
			1712.4	22.40	0.00	22.40	<=30	Pass		
			1712.4	22.42	0.00	22.42	<=30	Pass		
			1712.4	22.44	0.00	22.44	<=30	Pass		
			1732.6	22.36	0.00	22.36	<=30	Pass		
			1732.6	22.35	0.00	22.35	<=30	Pass		
			1732.6	22.39	0.00	22.39	<=30	Pass		
			1732.6	22.40	0.00	22.40	<=30	Pass		
			1752.6	22.32	0.00	22.32	<=30	Pass		
			1752.6	22.30	0.00	22.30	<=30	Pass		
			1752.6	22.34	0.00	22.34	<=30	Pass		
			1752.6	22.34	0.00	22.34	<=30	Pass		
			HSUPA	Subtest 1-5	1712.4	20.61	0.00	20.61	<=30	Pass
					1712.4	21.04	0.00	21.04	<=30	Pass
					1712.4	20.81	0.00	20.81	<=30	Pass
					1712.4	21.03	0.00	21.03	<=30	Pass
	1712.4	21.04			0.00	21.04	<=30	Pass		
	1732.6	20.78			0.00	20.78	<=30	Pass		
	1732.6	20.76			0.00	20.76	<=30	Pass		
	1732.6	20.76			0.00	20.76	<=30	Pass		
	1732.6	20.75			0.00	20.75	<=30	Pass		
	1732.6	20.46			0.00	20.46	<=30	Pass		
	1752.6	20.68			0.00	20.68	<=30	Pass		
	1752.6	20.41			0.00	20.41	<=30	Pass		
	1752.6	20.86			0.00	20.86	<=30	Pass		
	1752.6	20.42			0.00	20.42	<=30	Pass		
	1752.6	20.87			0.00	20.87	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain



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2. Frequency Stability

2.1 Band IV

2.1.1 Test Result

Band IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.6	-14.169	-0.0083	/	Pass
			3.84	-14.434	-0.0084	/	Pass
			4.3	-15.256	-0.0089	/	Pass
		-30	3.84	-19.670	-0.0115	/	Pass
		-20	3.84	-14.749	-0.0086	/	Pass
		-10	3.84	-16.108	-0.0094	/	Pass
		0	3.84	-17.803	-0.0104	/	Pass
		10	3.84	-20.056	-0.0117	/	Pass
		30	3.84	-14.892	-0.0087	/	Pass
		40	3.84	-18.439	-0.0108	/	Pass
	50	3.84	-13.804	-0.0081	/	Pass	
	1732.6	20	3.6	-3.362	-0.0019	/	Pass
			3.84	-10.443	-0.0060	/	Pass
			4.3	-10.858	-0.0063	/	Pass
		-30	3.84	-11.258	-0.0065	/	Pass
		-20	3.84	-13.540	-0.0078	/	Pass
		-10	3.84	-12.696	-0.0073	/	Pass
		0	3.84	-9.184	-0.0053	/	Pass
		10	3.84	-11.587	-0.0067	/	Pass
		30	3.84	-17.345	-0.0100	/	Pass
		40	3.84	-17.030	-0.0098	/	Pass
	50	3.84	-12.724	-0.0073	/	Pass	
	1752.6	20	3.6	-6.022	-0.0034	/	Pass
			3.84	-10.114	-0.0058	/	Pass
			4.3	-9.949	-0.0057	/	Pass
		-30	3.84	-7.846	-0.0045	/	Pass
		-20	3.84	-10.643	-0.0061	/	Pass
		-10	3.84	-12.610	-0.0072	/	Pass
		0	3.84	-12.460	-0.0071	/	Pass
		10	3.84	-10.736	-0.0061	/	Pass
30		3.84	-6.022	-0.0034	/	Pass	
40		3.84	-9.098	-0.0052	/	Pass	
50	3.84	-6.924	-0.0040	/	Pass		
HSDPA	1712.4	20	3.6	-30.470	-0.0178	/	Pass
			3.84	-26.321	-0.0154	/	Pass
			4.3	-26.493	-0.0155	/	Pass
		-30	3.84	-24.426	-0.0143	/	Pass
		-20	3.84	-25.263	-0.0148	/	Pass
		-10	3.84	-24.498	-0.0143	/	Pass



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HSUPA		0	3.84	-22.881	-0.0134	/	Pass
		10	3.84	-25.742	-0.0150	/	Pass
		30	3.84	-20.578	-0.0120	/	Pass
		40	3.84	-20.370	-0.0119	/	Pass
		50	3.84	-21.007	-0.0123	/	Pass
	1732.6	20	3.6	-12.016	-0.0069	/	Pass
			3.84	-21.794	-0.0126	/	Pass
			4.3	-22.824	-0.0132	/	Pass
		-30	3.84	-20.356	-0.0117	/	Pass
		-20	3.84	-20.428	-0.0118	/	Pass
		-10	3.84	-20.685	-0.0119	/	Pass
		0	3.84	-21.250	-0.0123	/	Pass
		10	3.84	-20.020	-0.0116	/	Pass
		30	3.84	-19.848	-0.0115	/	Pass
		40	3.84	-22.030	-0.0127	/	Pass
	50	3.84	-19.262	-0.0111	/	Pass	
	1752.6	20	3.6	-24.354	-0.0139	/	Pass
			3.84	-19.770	-0.0113	/	Pass
			4.3	-19.605	-0.0112	/	Pass
		-30	3.84	-20.943	-0.0119	/	Pass
		-20	3.84	-23.289	-0.0133	/	Pass
		-10	3.84	-21.029	-0.0120	/	Pass
		0	3.84	-18.103	-0.0103	/	Pass
		10	3.84	-17.738	-0.0101	/	Pass
		30	3.84	-19.233	-0.0110	/	Pass
		40	3.84	-17.552	-0.0100	/	Pass
	50	3.84	-16.079	-0.0092	/	Pass	
	1712.4	20	3.6	-4.492	-0.0026	/	Pass
			3.84	-18.811	-0.0110	/	Pass
			4.3	-20.707	-0.0121	/	Pass
		-30	3.84	-17.660	-0.0103	/	Pass
		-20	3.84	-20.020	-0.0117	/	Pass
		-10	3.84	-18.024	-0.0105	/	Pass
		0	3.84	-19.906	-0.0116	/	Pass
		10	3.84	-20.642	-0.0121	/	Pass
30		3.84	-16.272	-0.0095	/	Pass	
40		3.84	-17.066	-0.0100	/	Pass	
50		3.84	-17.931	-0.0105	/	Pass	
1732.6		20	3.6	-15.965	-0.0092	/	Pass
			3.84	-19.019	-0.0110	/	Pass
			4.3	-19.805	-0.0114	/	Pass
		-30	3.84	-19.712	-0.0114	/	Pass
	-20	3.84	-20.485	-0.0118	/	Pass	
	-10	3.84	-21.243	-0.0123	/	Pass	
	0	3.84	-20.149	-0.0116	/	Pass	
	10	3.84	-18.547	-0.0107	/	Pass	
	30	3.84	-15.936	-0.0092	/	Pass	
40	3.84	-16.501	-0.0095	/	Pass		
50	3.84	-18.997	-0.0110	/	Pass		



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1752.6	20	3.6	-12.517	-0.0071	/	Pass
		3.84	-13.196	-0.0075	/	Pass
		4.3	-14.083	-0.0080	/	Pass
	-30	3.84	-9.105	-0.0052	/	Pass
	-20	3.84	-12.302	-0.0070	/	Pass
	-10	3.84	-6.666	-0.0038	/	Pass
	0	3.84	-13.111	-0.0075	/	Pass
	10	3.84	-10.593	-0.0060	/	Pass
	30	3.84	-12.867	-0.0073	/	Pass
	40	3.84	-12.853	-0.0073	/	Pass
50	3.84	-10.593	-0.0060	/	Pass	



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3. 99% & 26dB Bandwidth

3.1 Band IV_OBW

3.1.1 Test Result

Band IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.176	/	Pass
			1732.6	4.180	/	Pass
			1752.6	4.174	/	Pass
	HSDPA	Subtest 1	1712.4	4.184	/	Pass
			1732.6	4.200	/	Pass
			1752.6	4.192	/	Pass
	HSUPA	Subtest 1	1712.4	4.192	/	Pass
			1732.6	4.180	/	Pass
			1752.6	4.202	/	Pass



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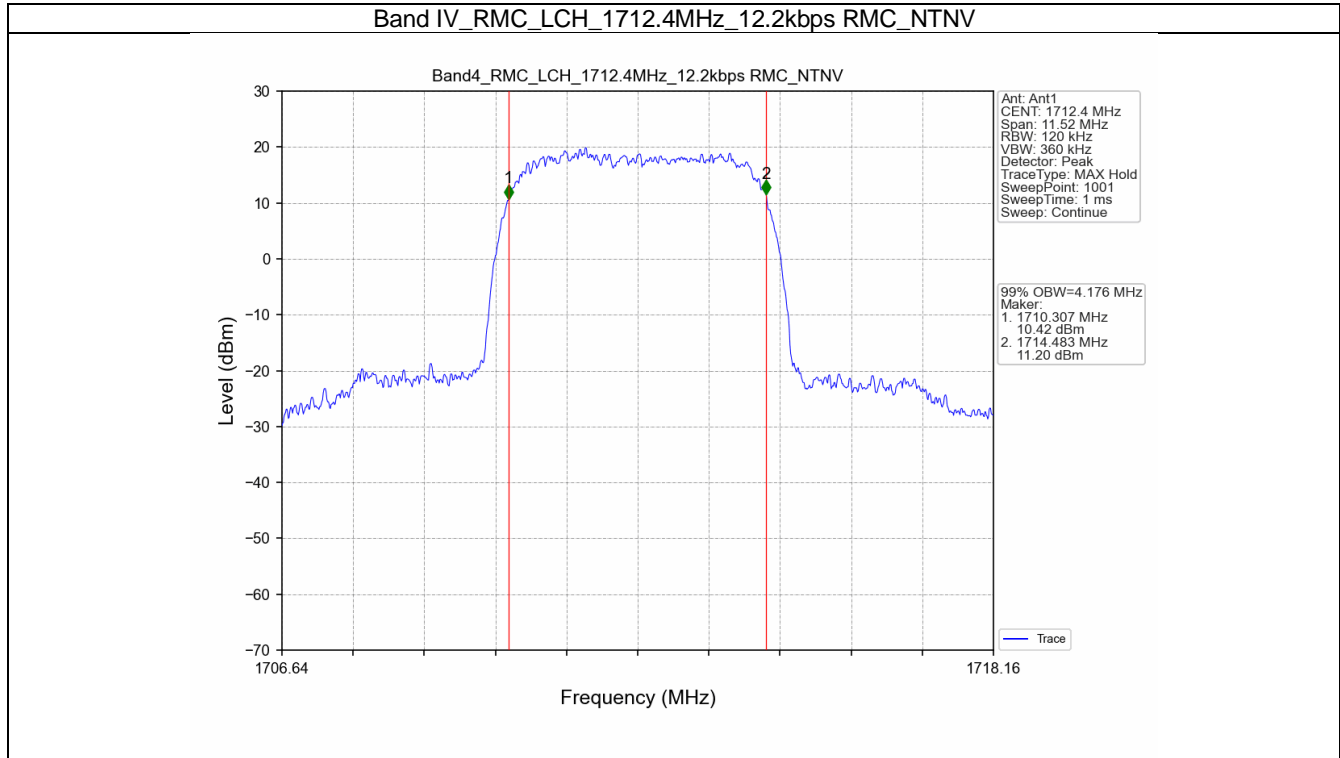
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3.1.2 Test Graph



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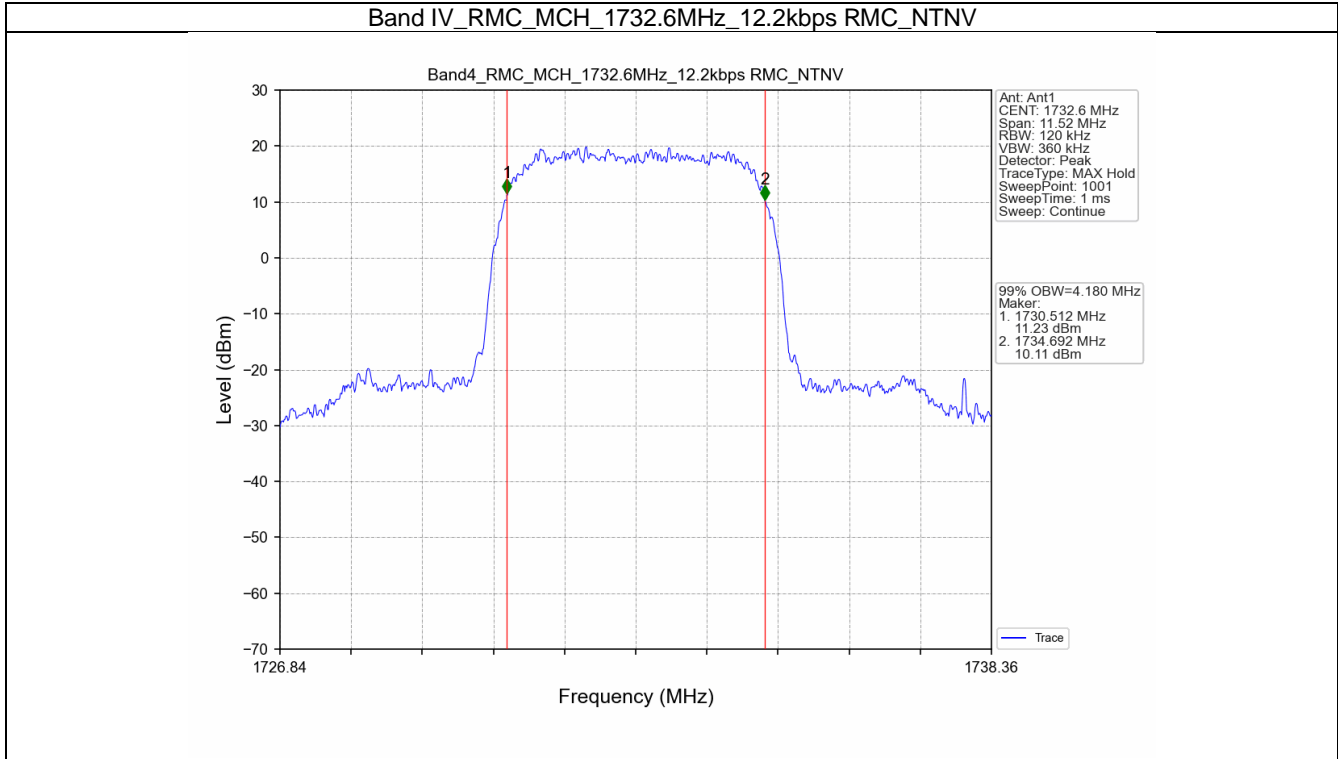
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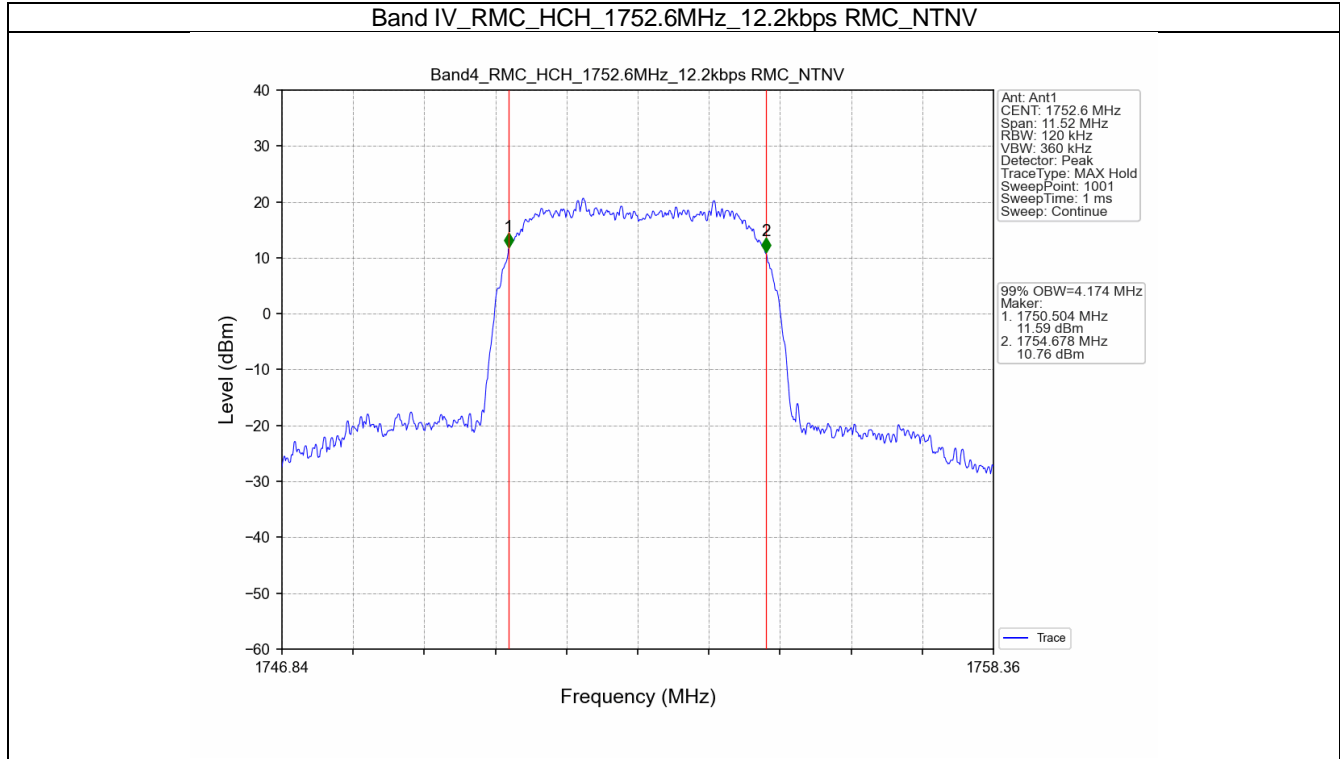
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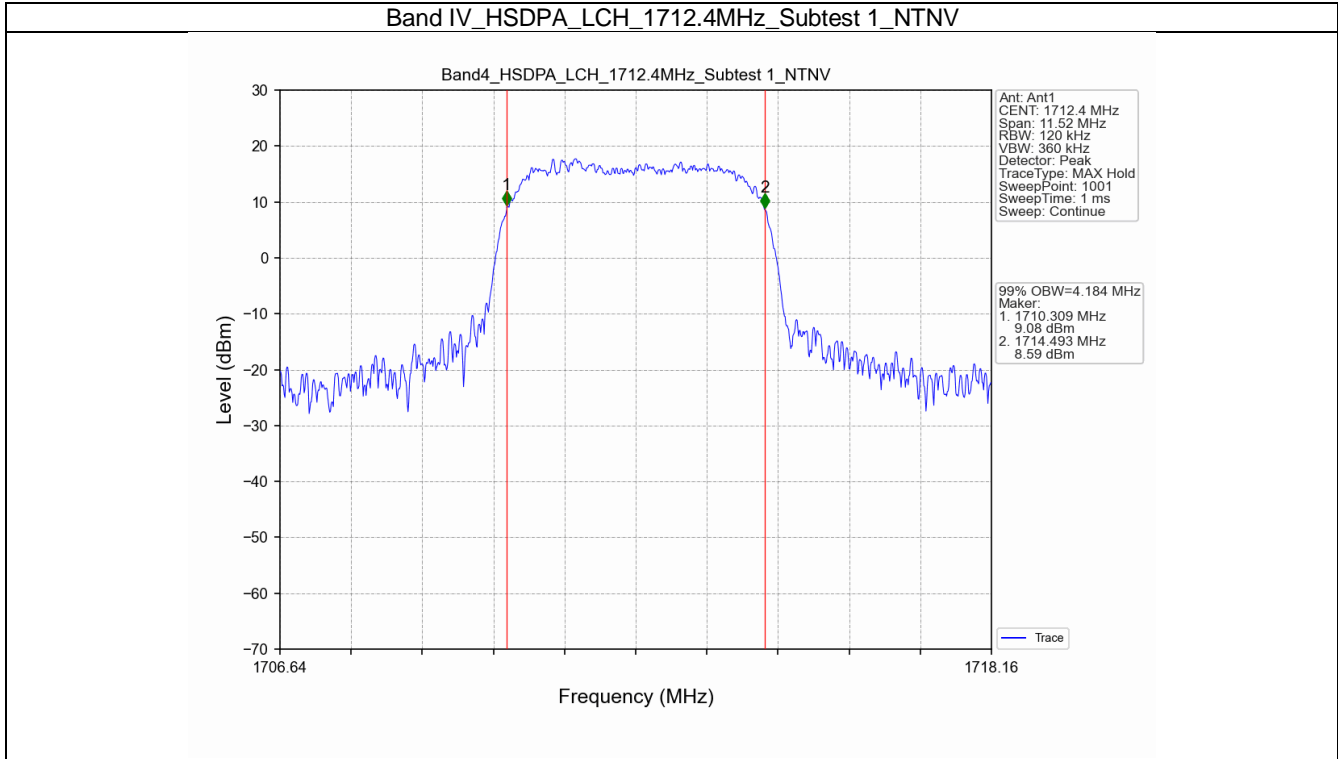
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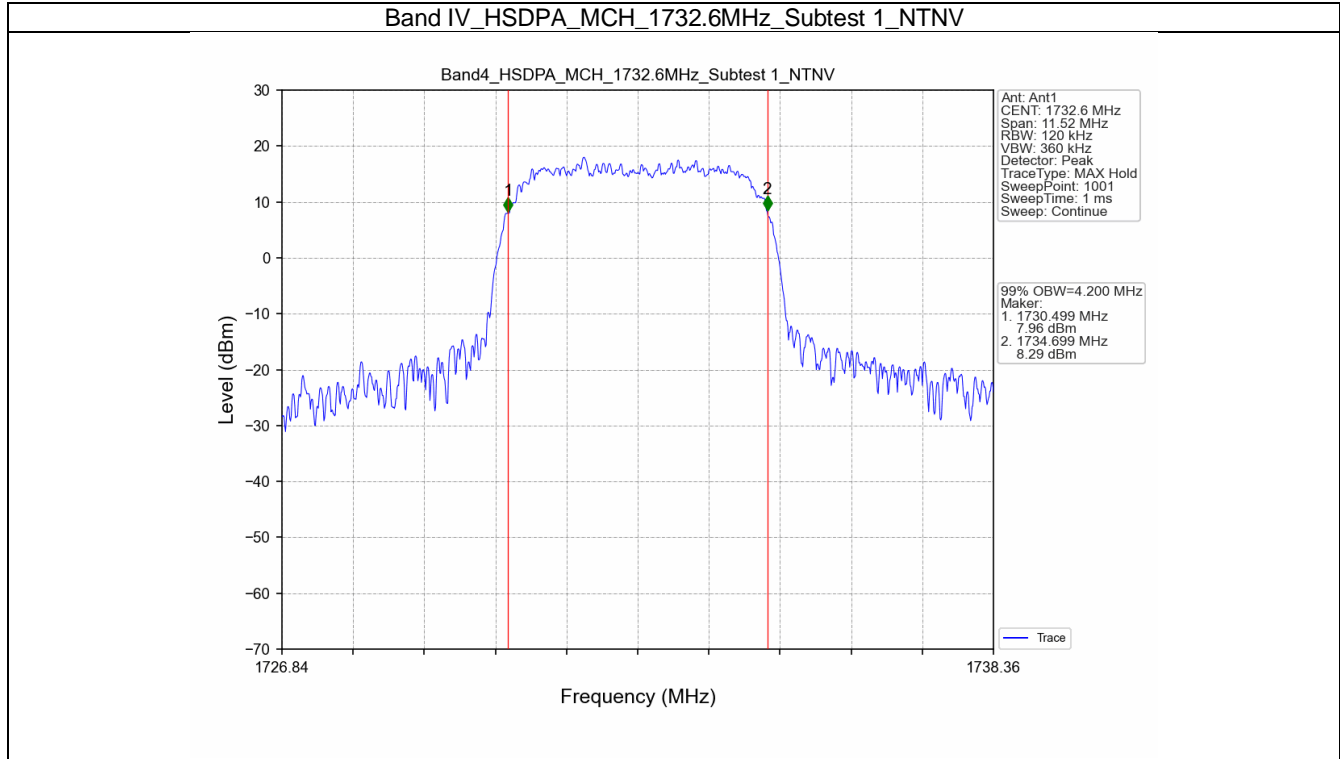
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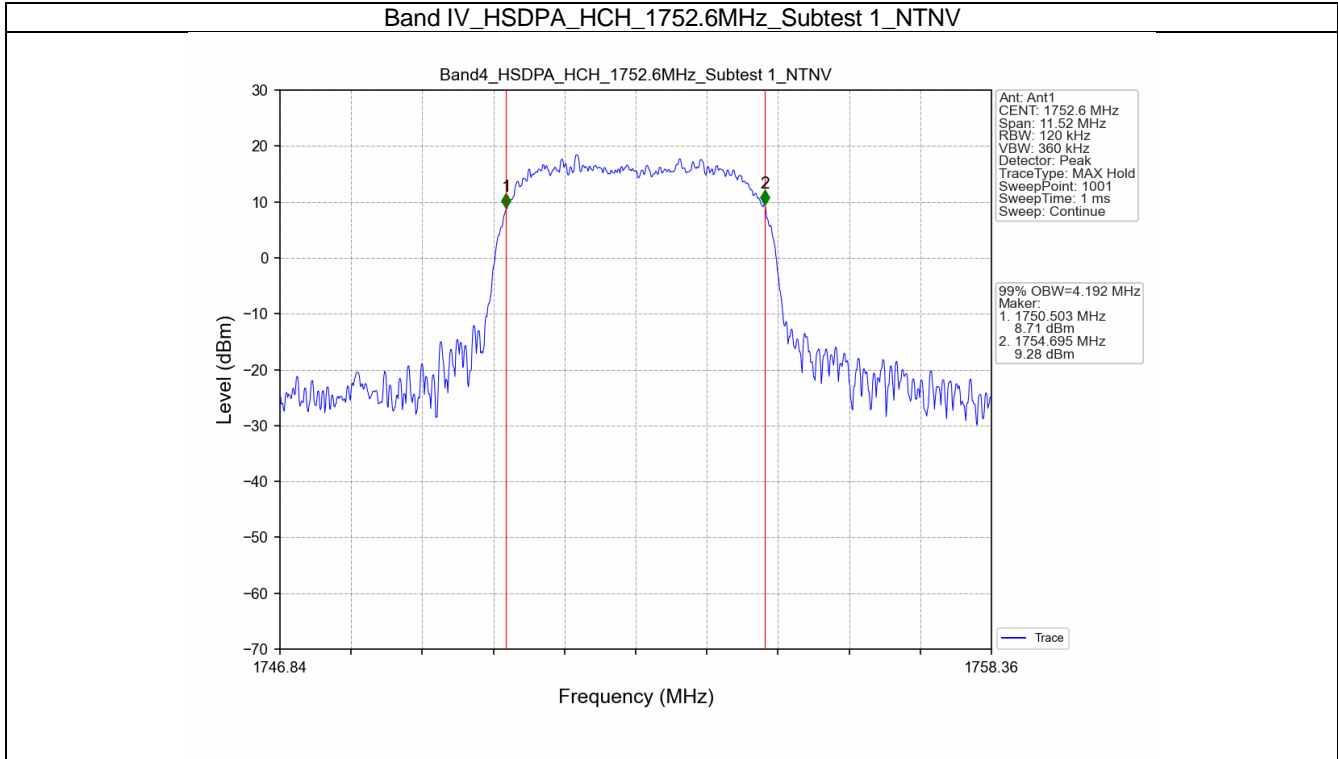
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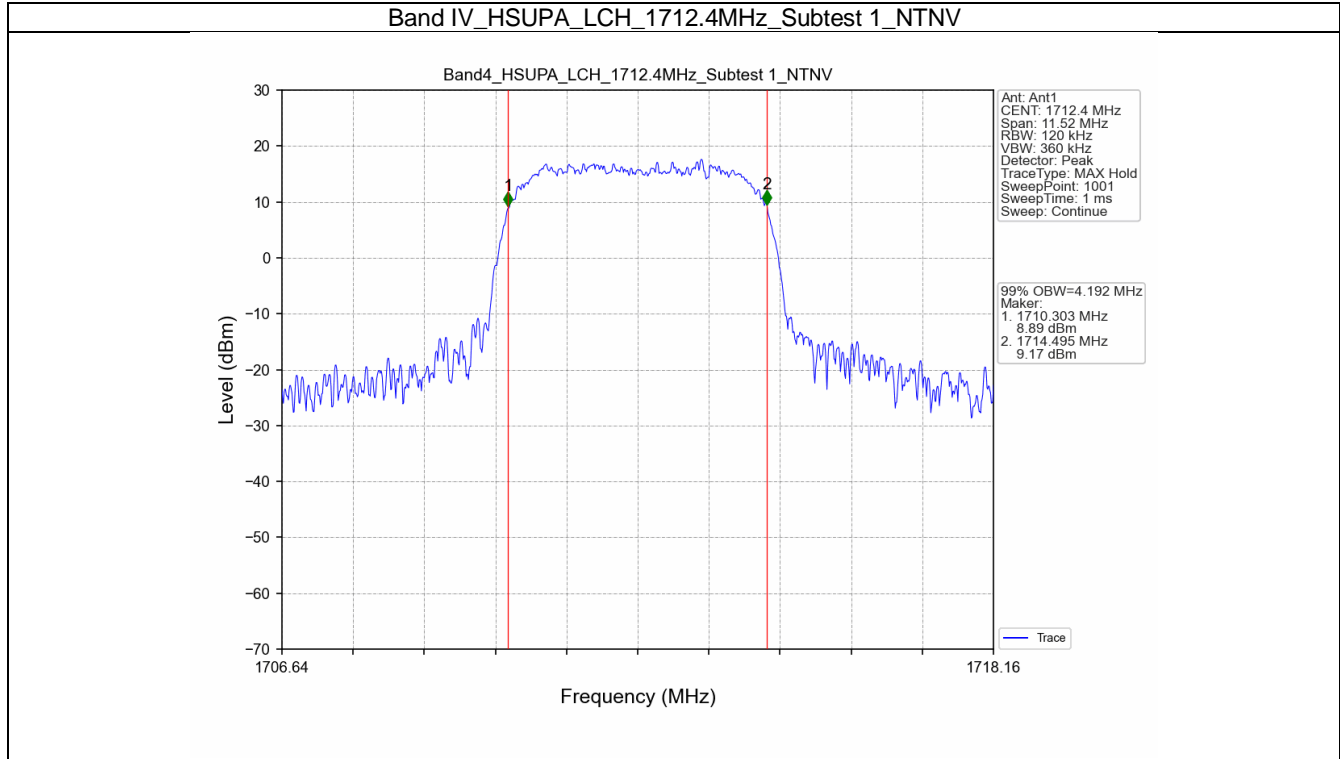
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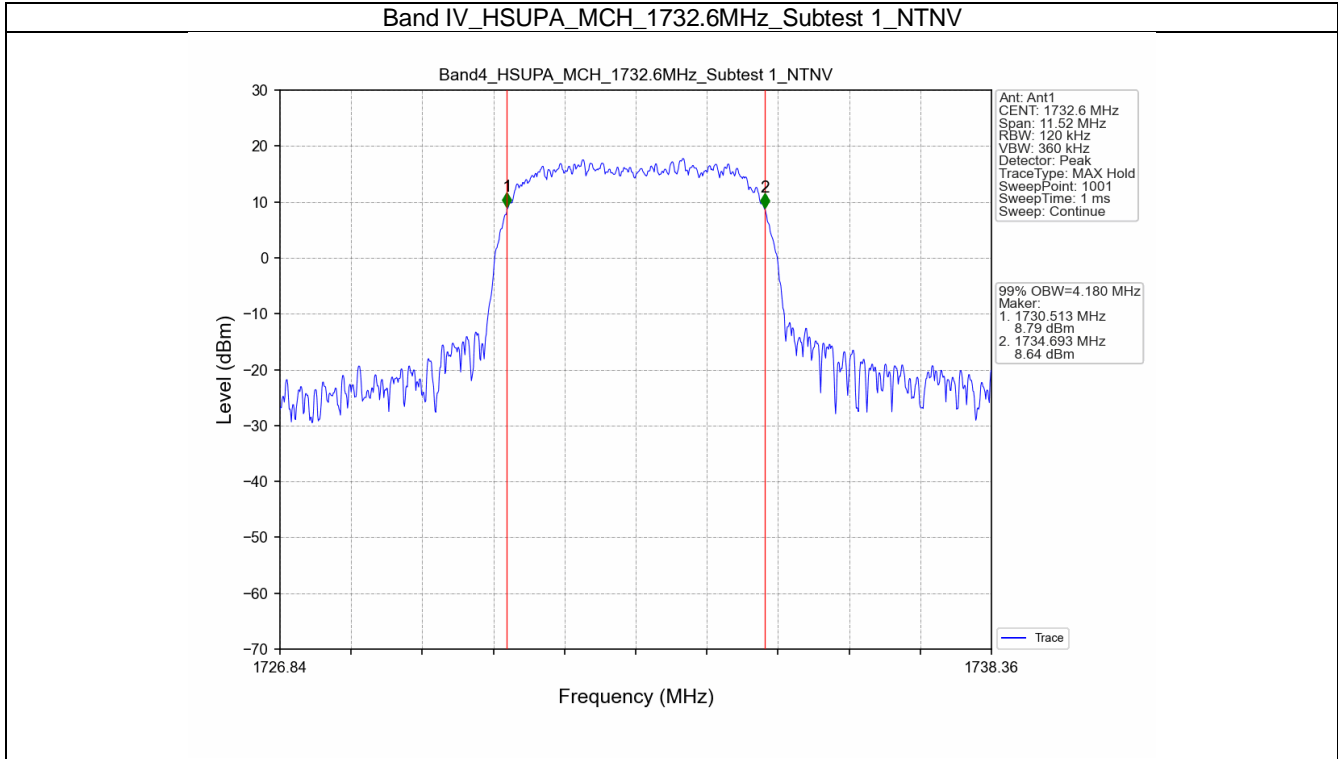
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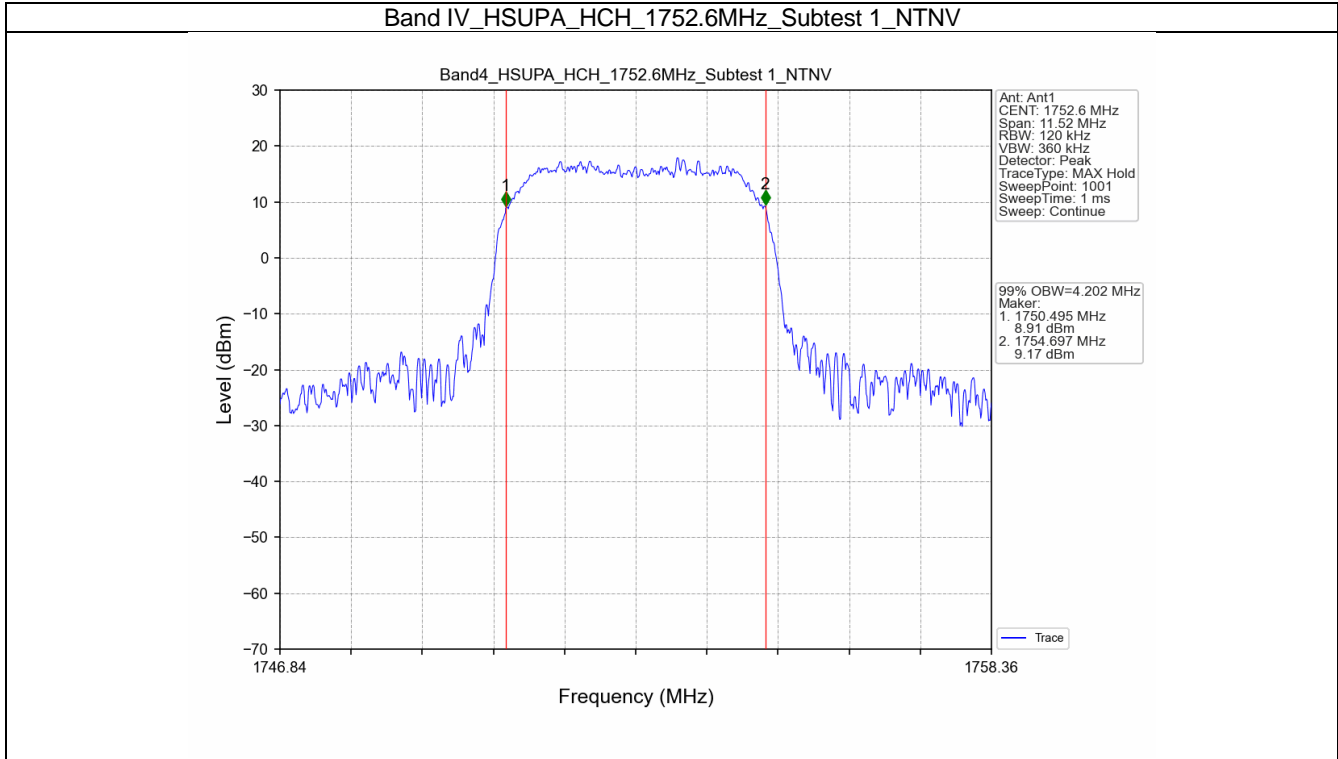
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3.2 Band IV_XDB

3.2.1 Test Result

ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
	NTNV	RMC	12.2kbps RMC	1712.4	4.777	
1732.6				4.763	/	Pass
1752.6				4.752	/	Pass
HSDPA		Subtest 1	1712.4	4.802	/	Pass
			1732.6	4.749	/	Pass
			1752.6	4.720	/	Pass
HSUPA		Subtest 1	1712.4	4.758	/	Pass
			1732.6	4.745	/	Pass
			1752.6	4.741	/	Pass



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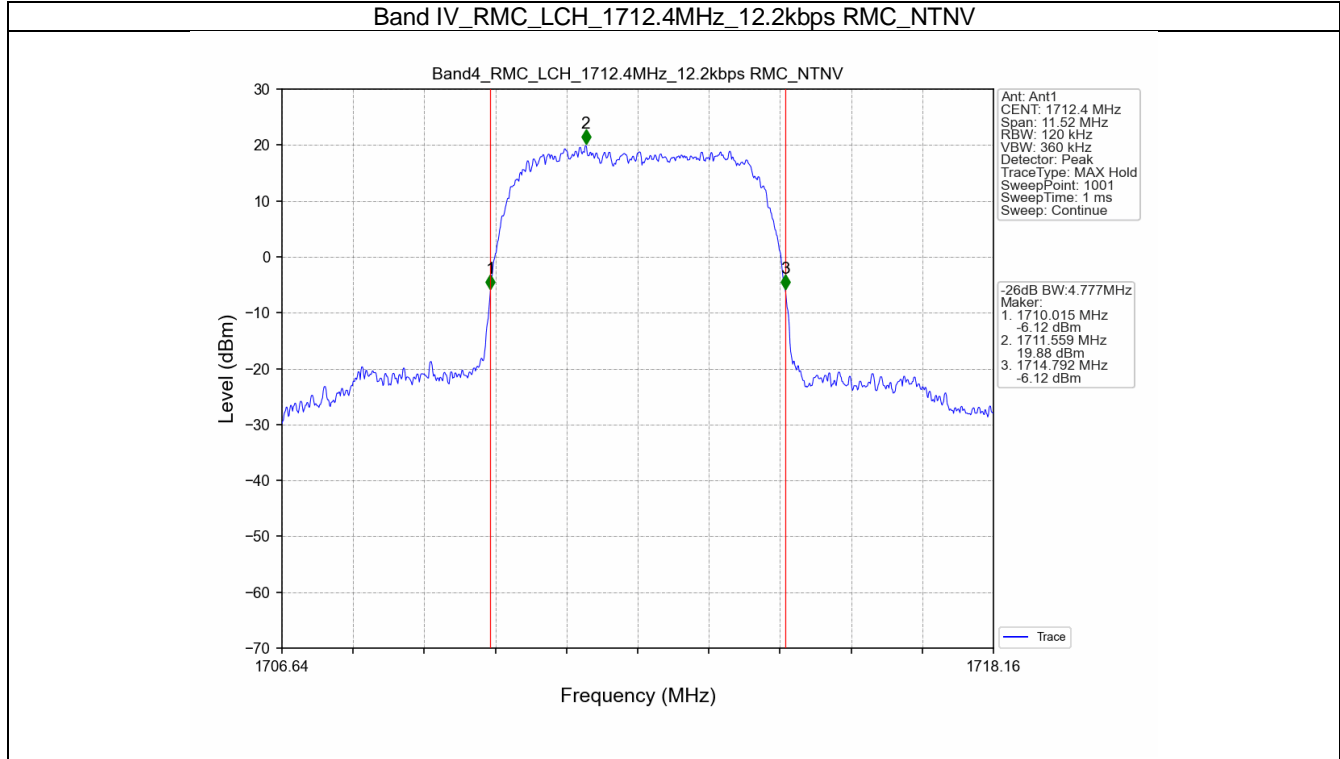
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3.2.2 Test Graph



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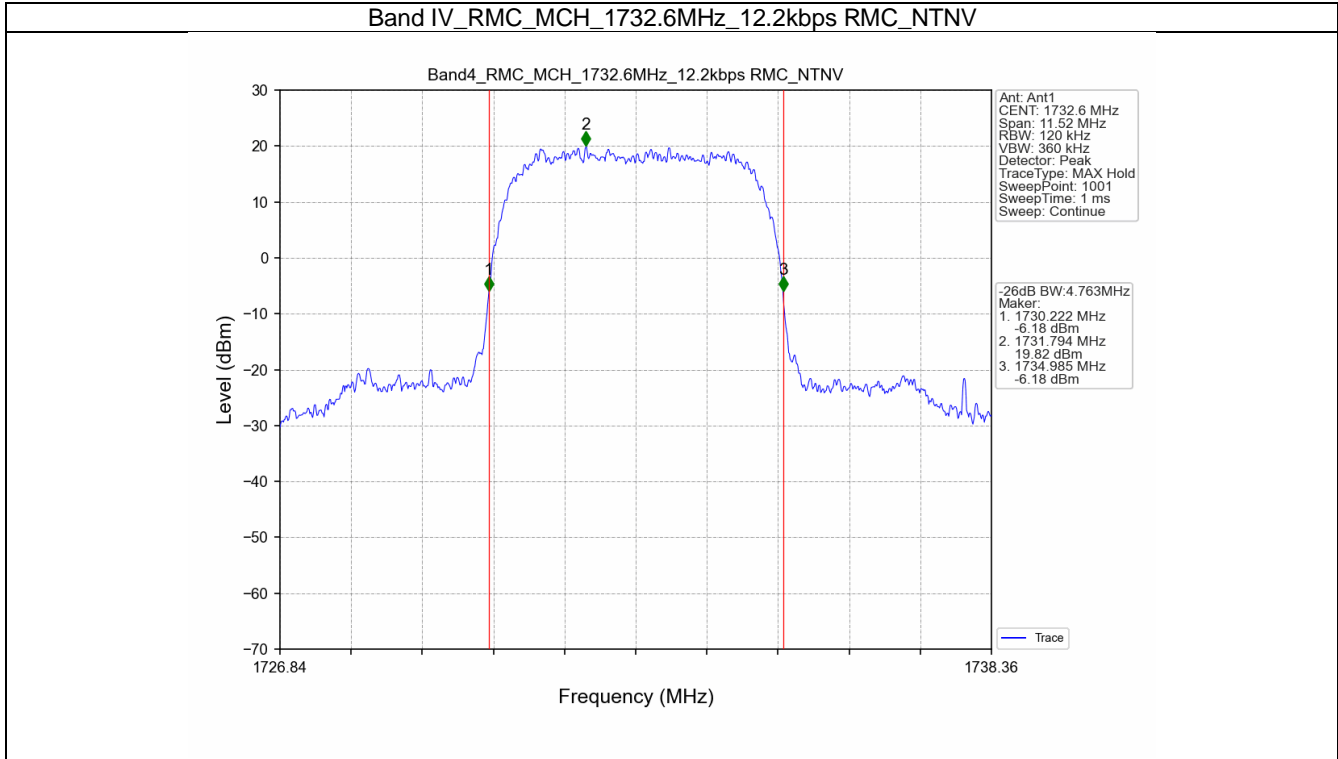
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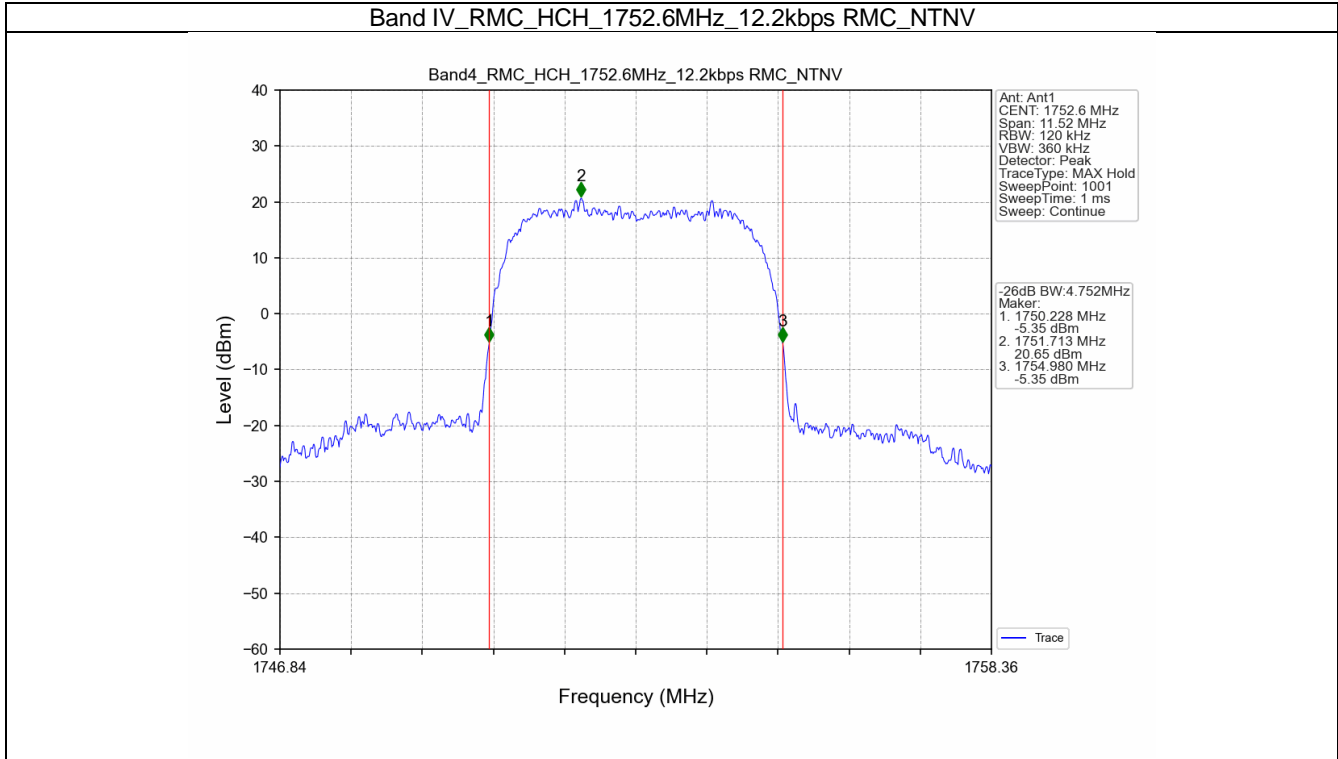
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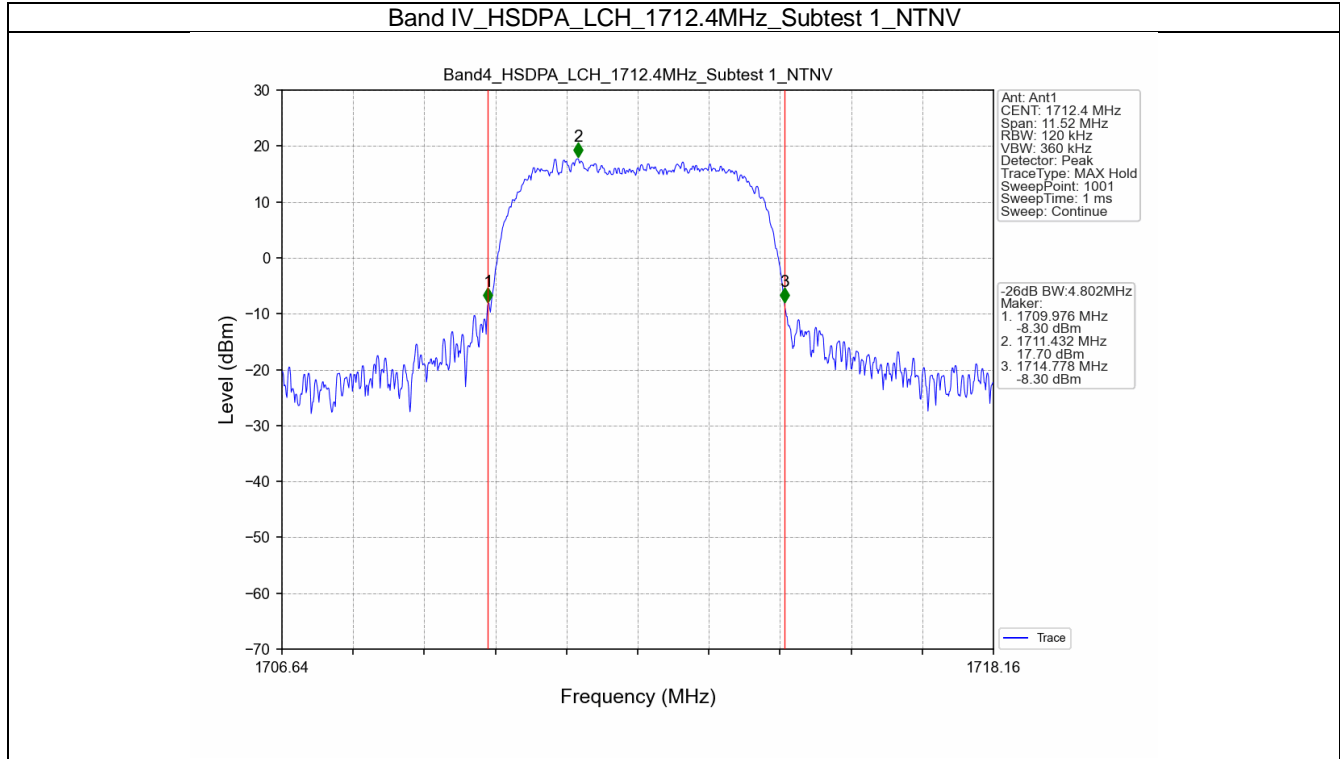
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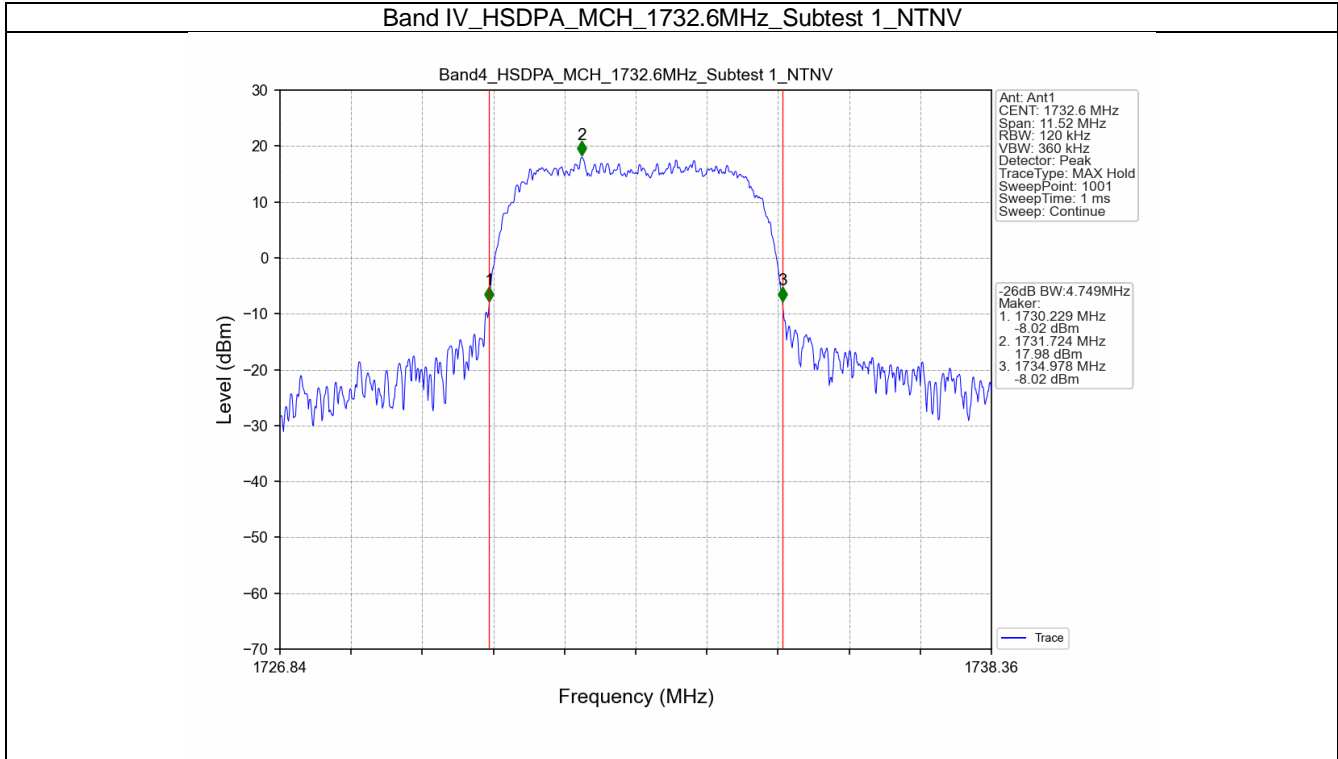
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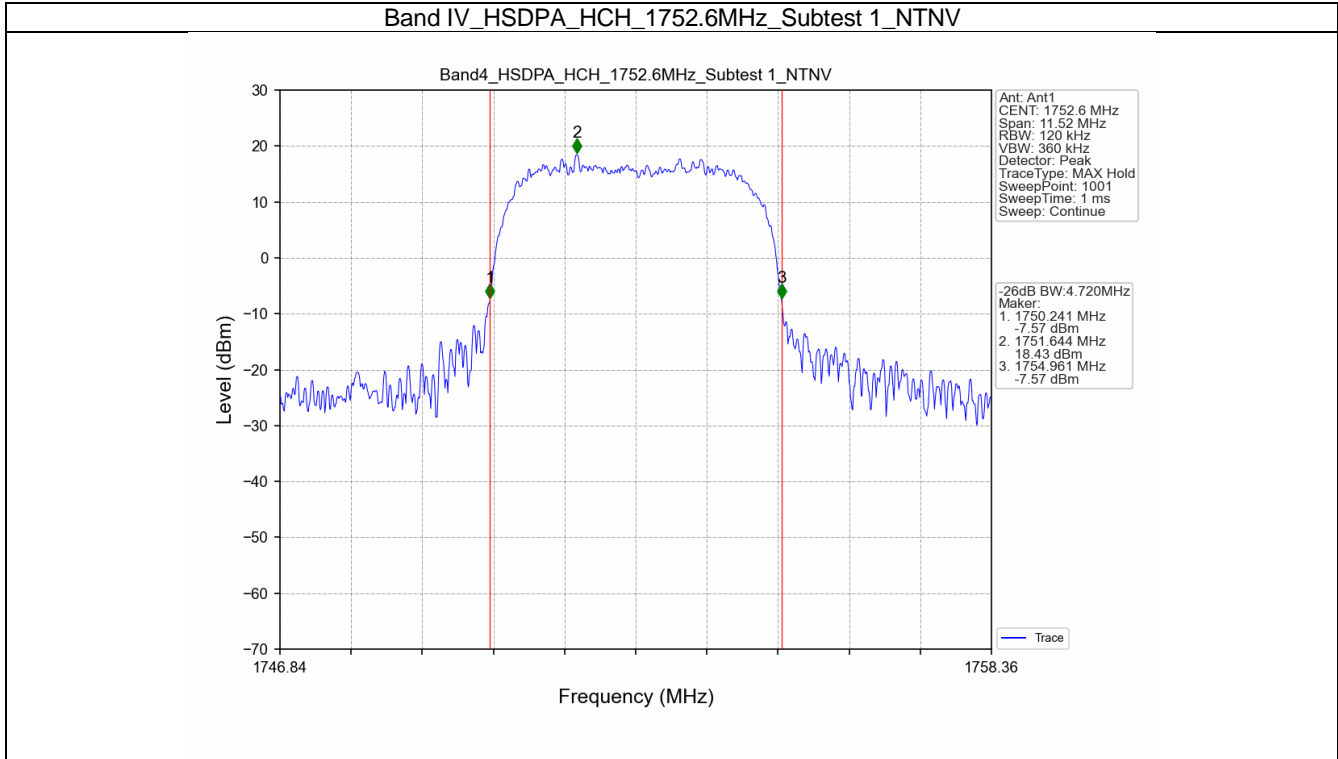
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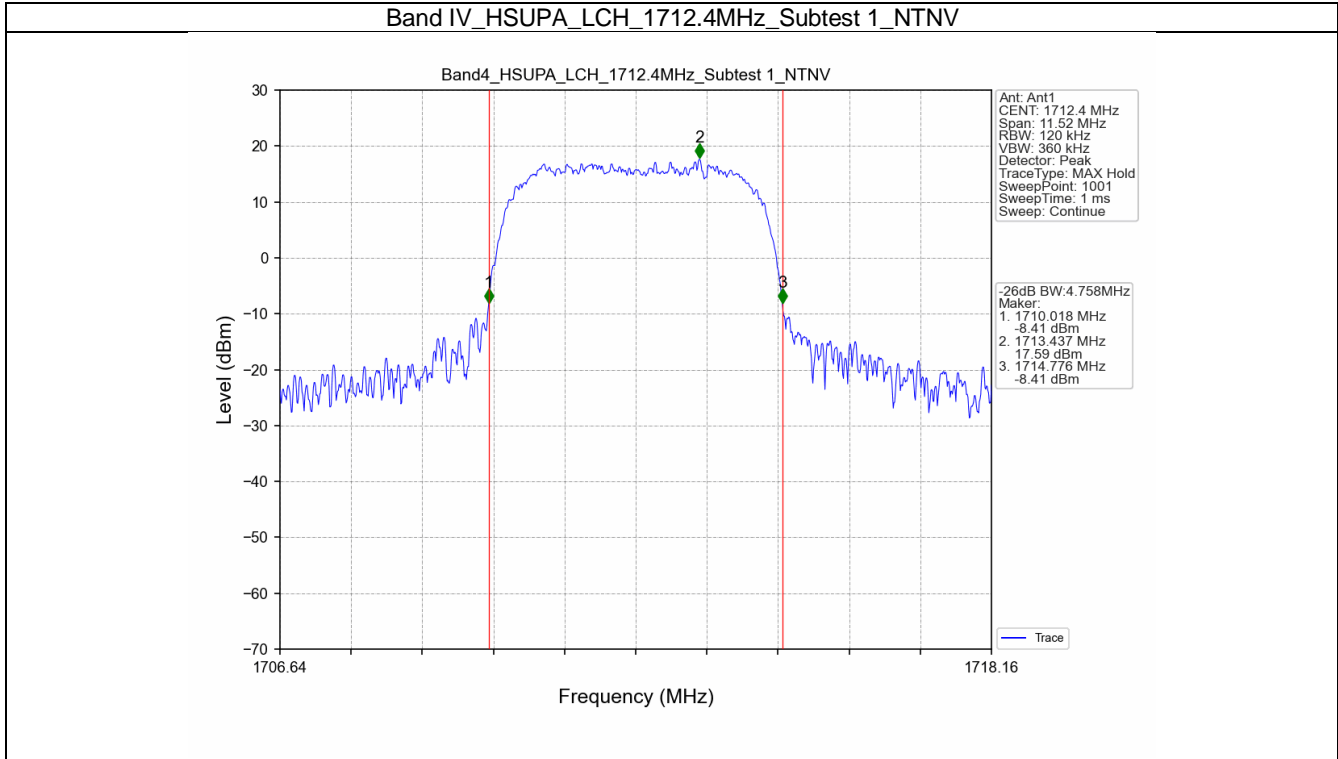
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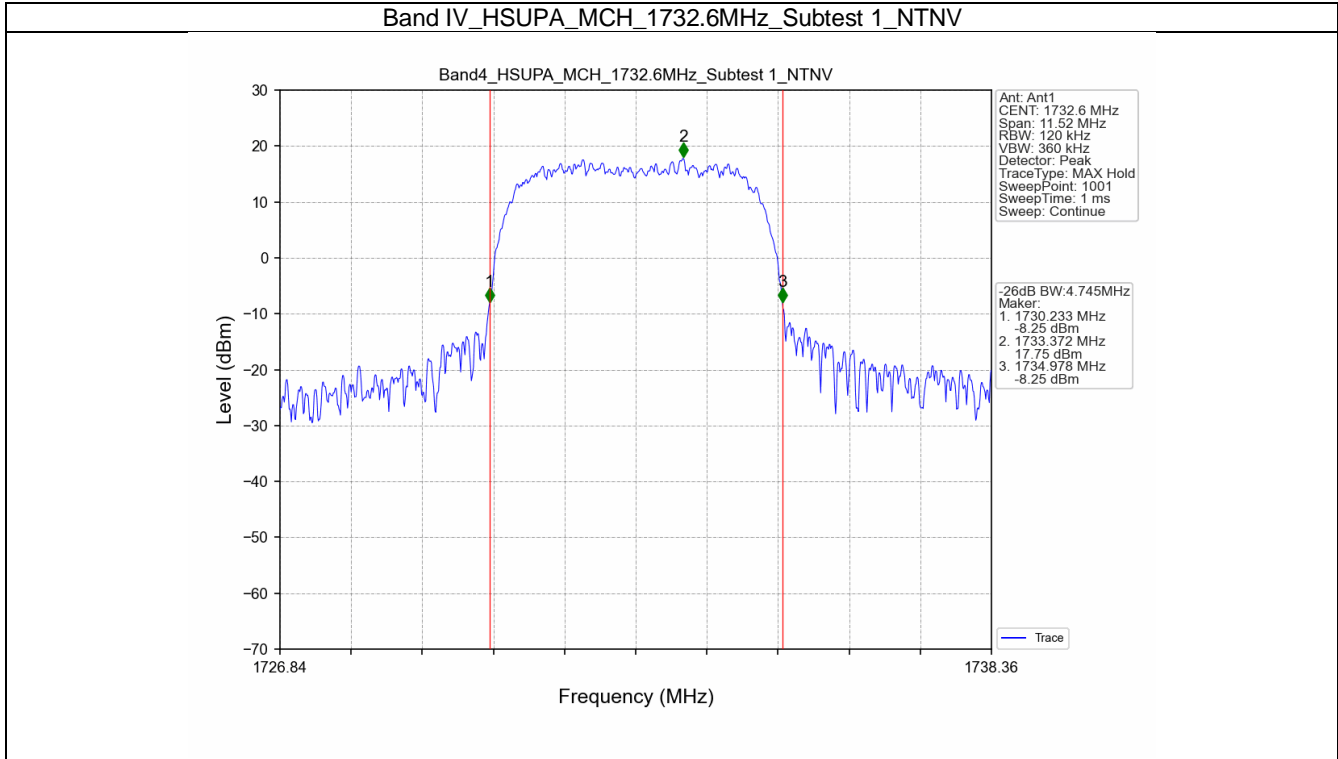
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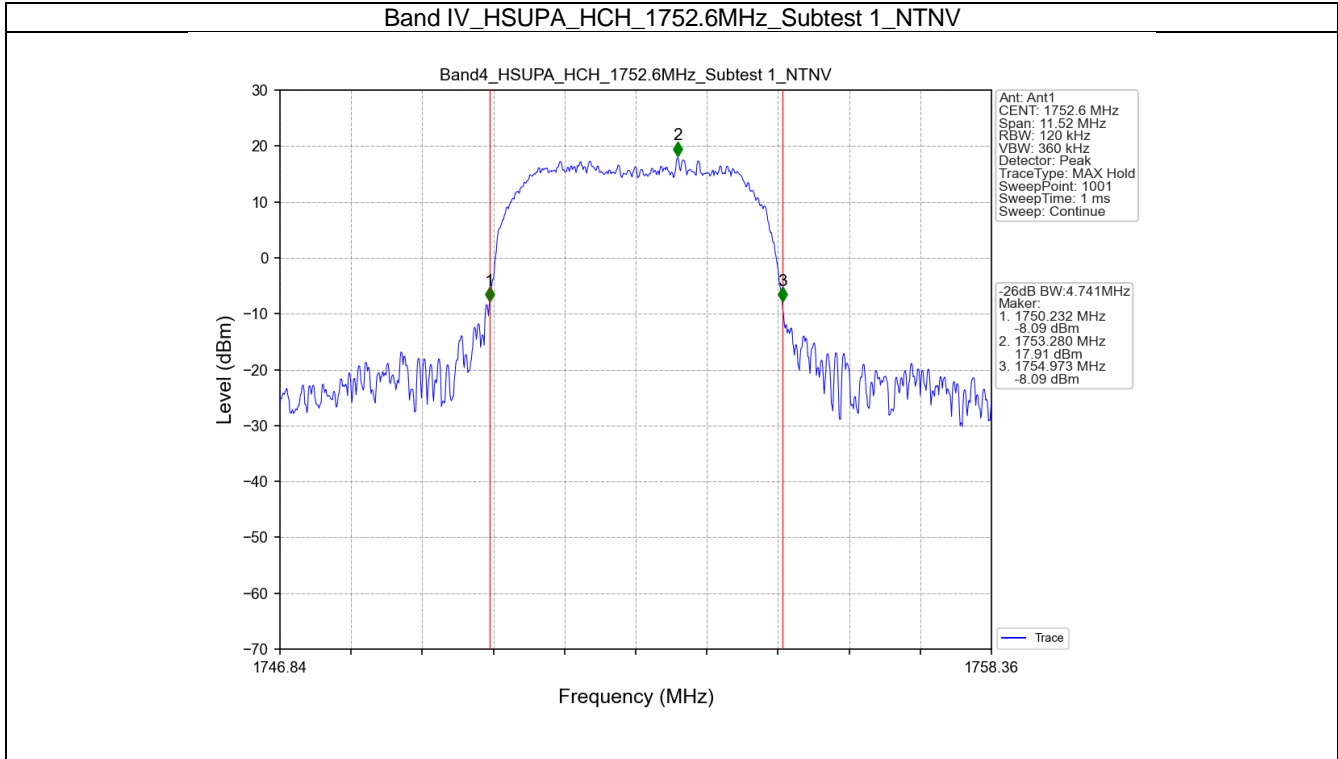
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4. Peak-Average Ratio

4.1 Band IV

4.1.1 Test Result

Band IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.64	<=13	Pass
			1732.6	2.70	<=13	Pass
			1752.6	2.58	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.80	<=13	Pass
			1732.6	5.90	<=13	Pass
			1752.6	5.70	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.87	<=13	Pass
			1732.6	5.85	<=13	Pass
			1752.6	5.60	<=13	Pass



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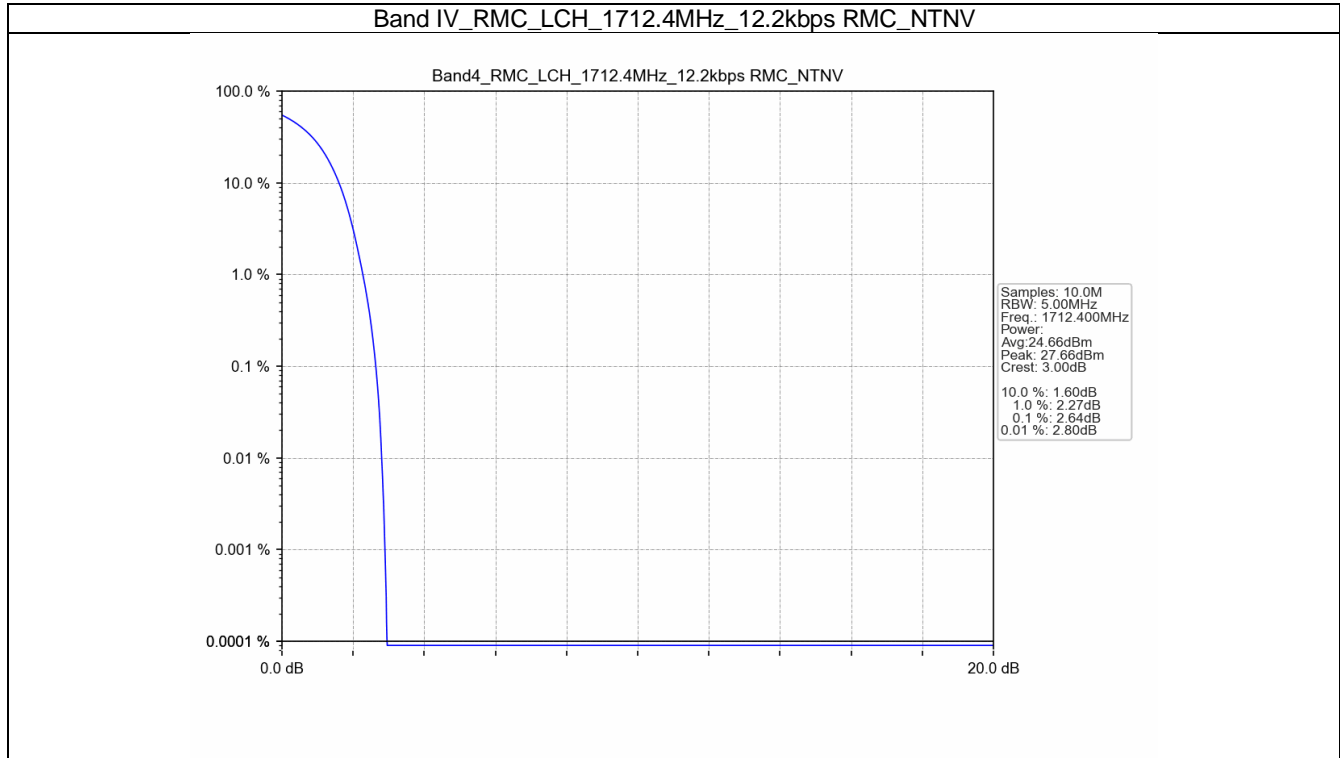
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4.1.2 Test Graph



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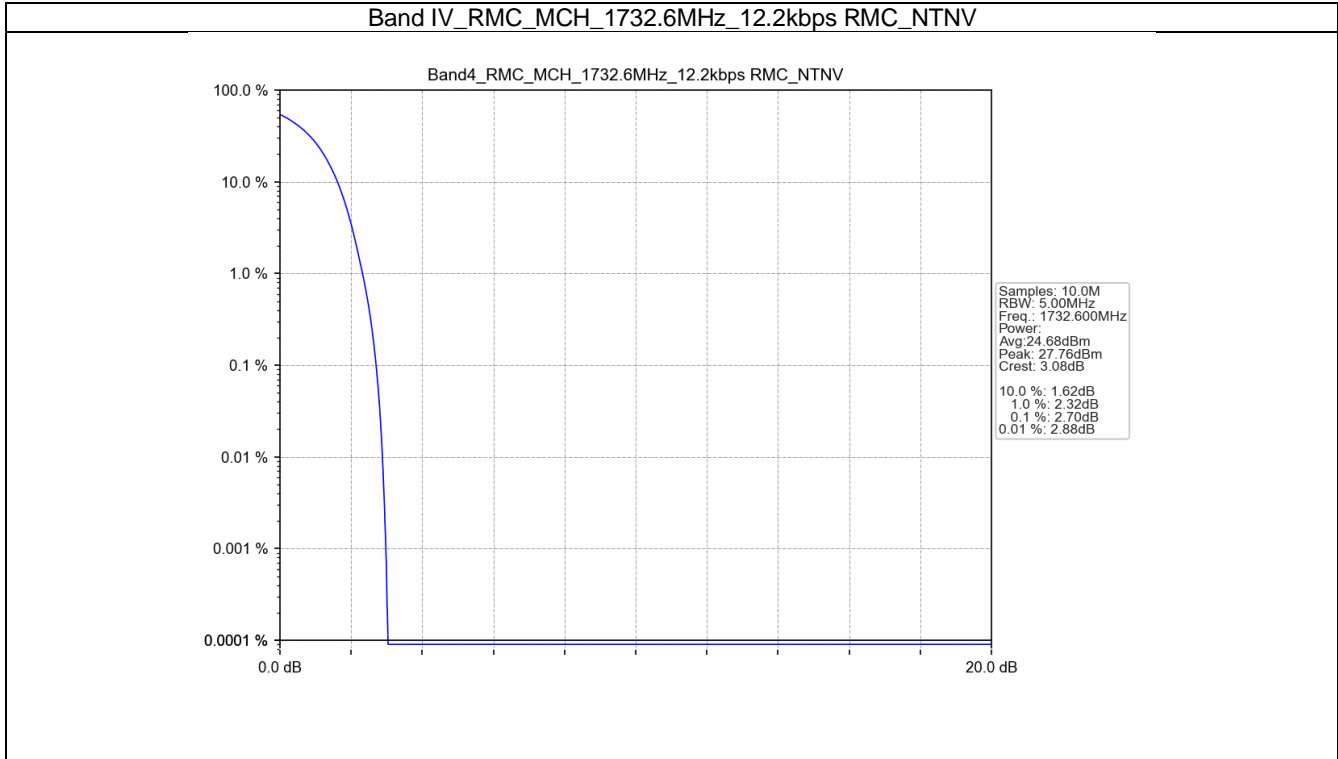
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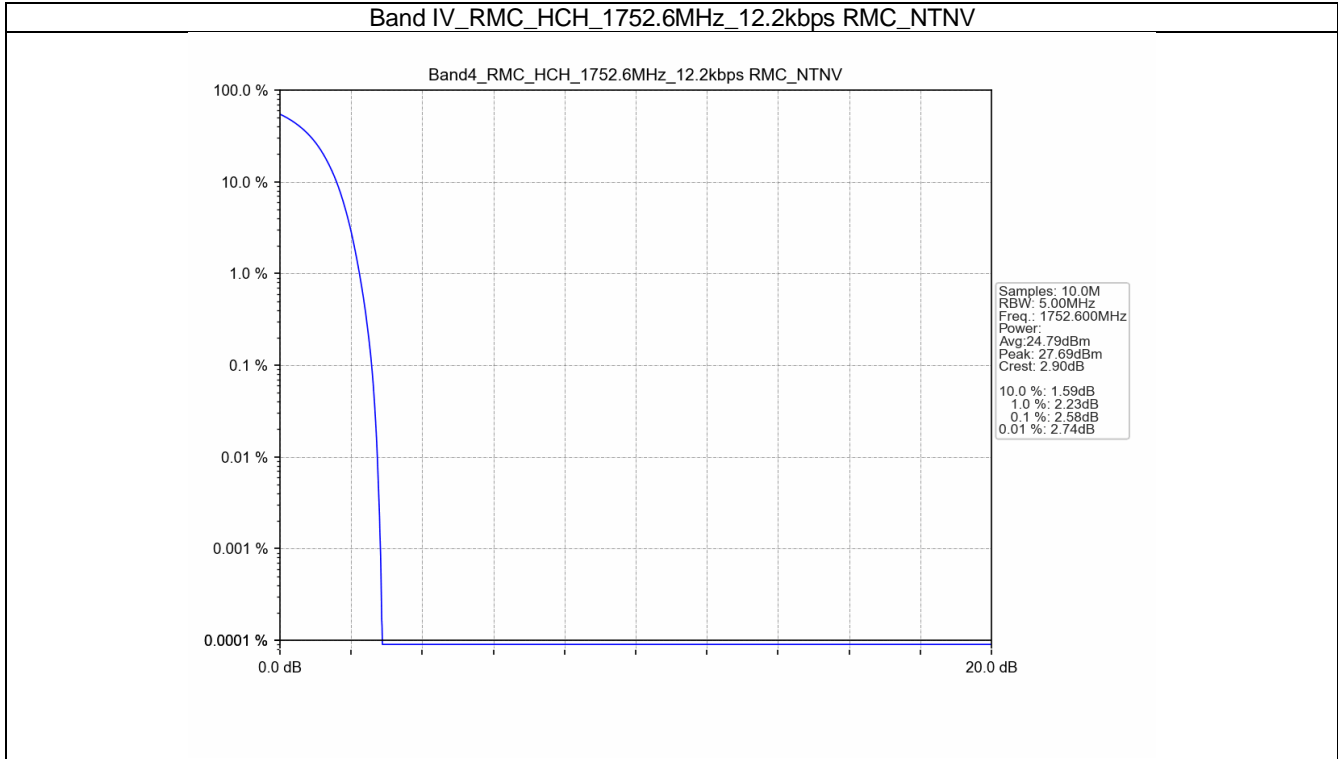
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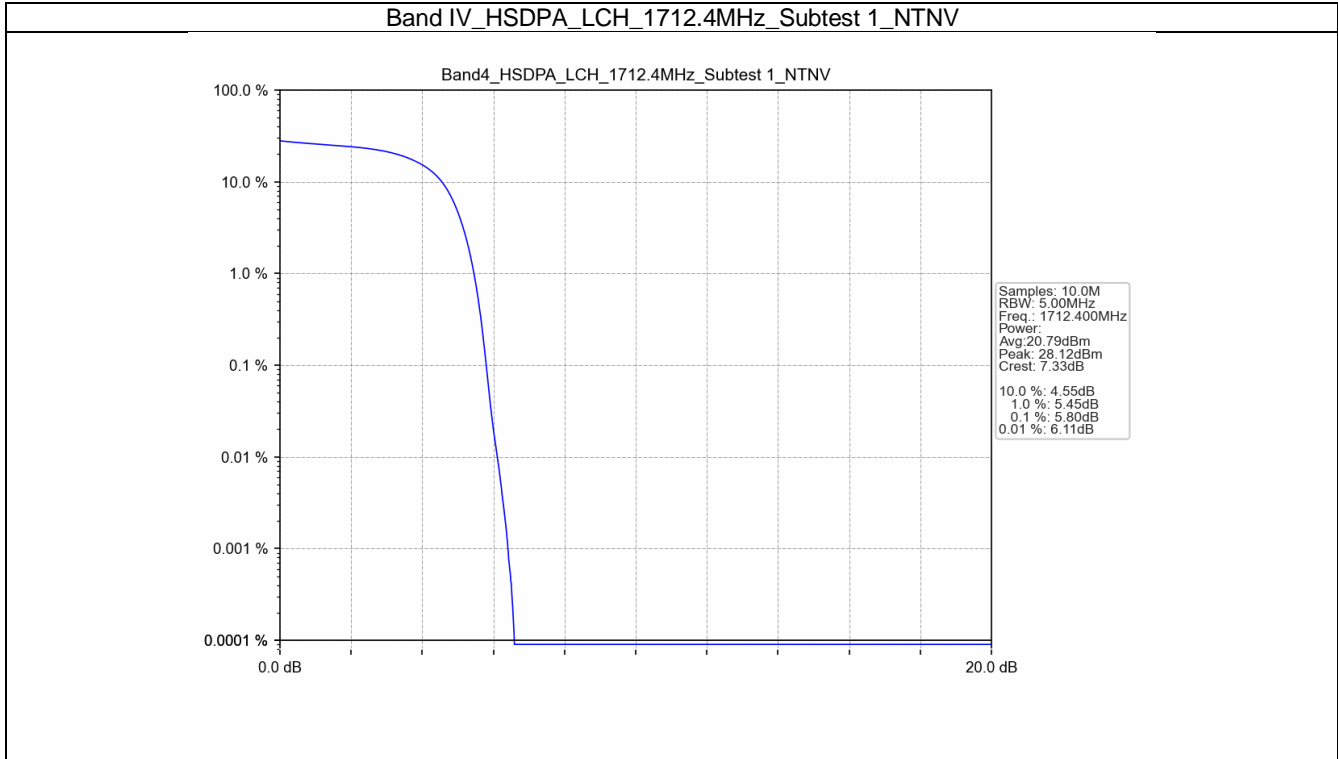
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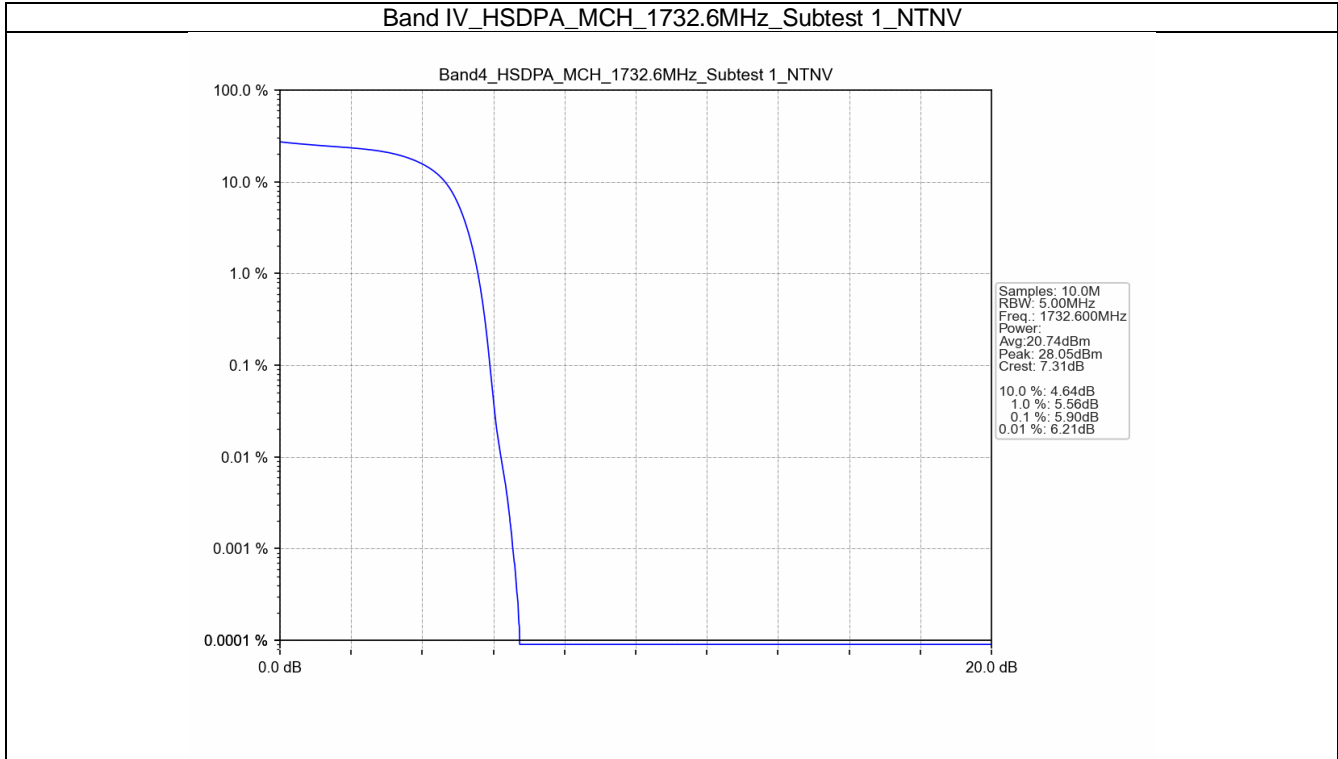
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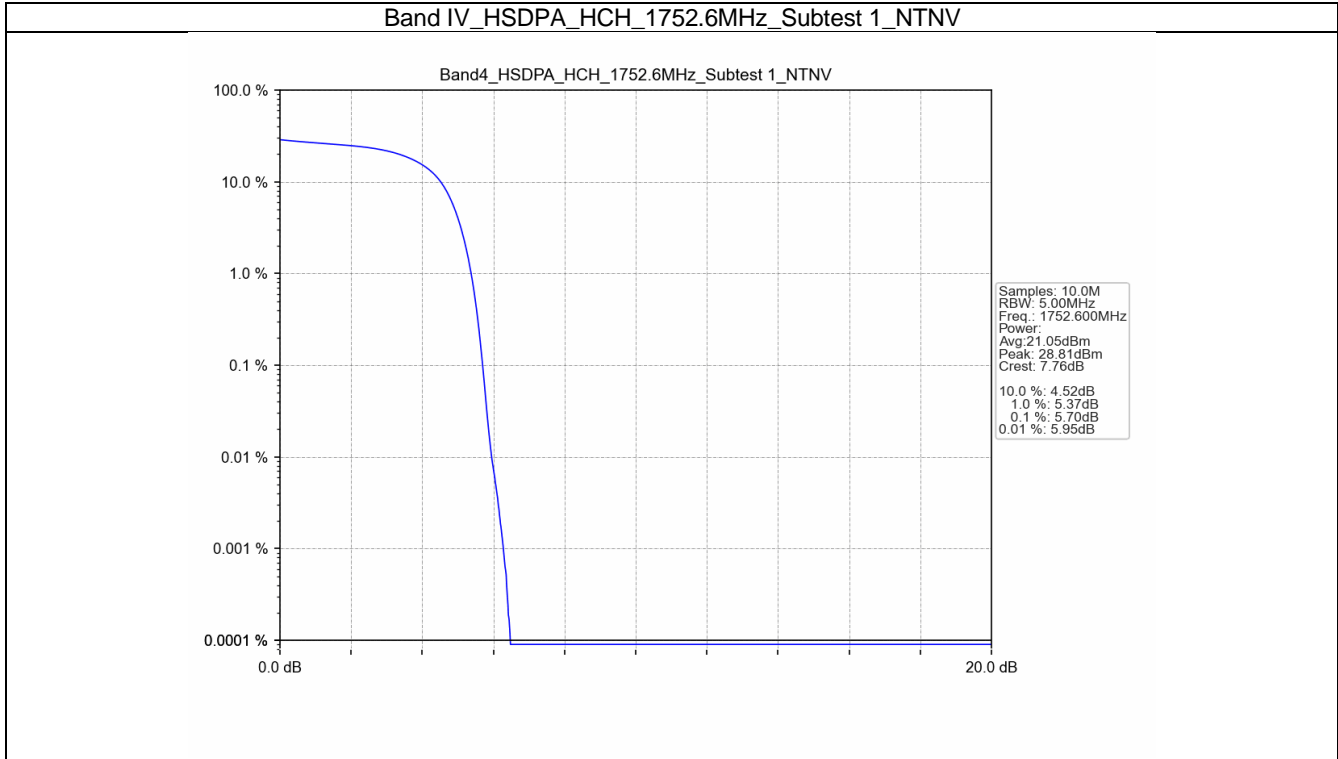
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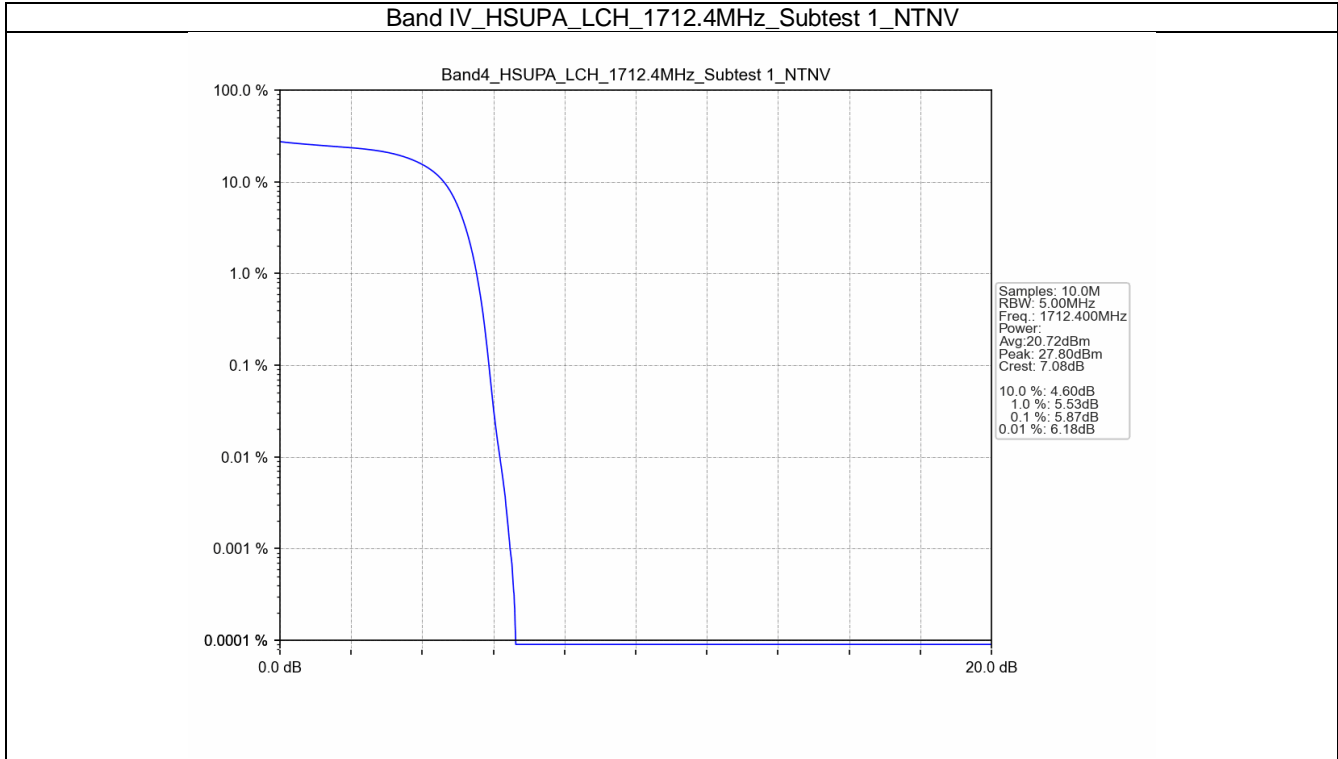
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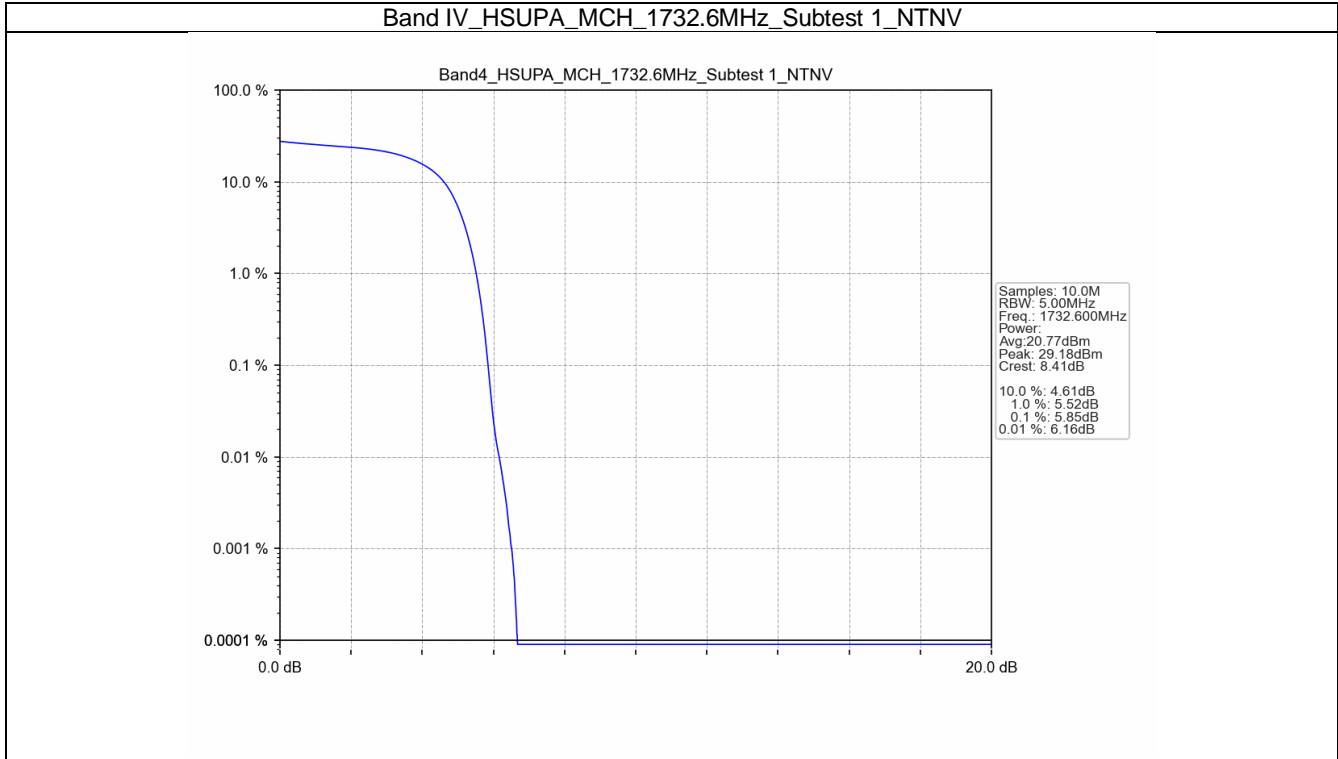
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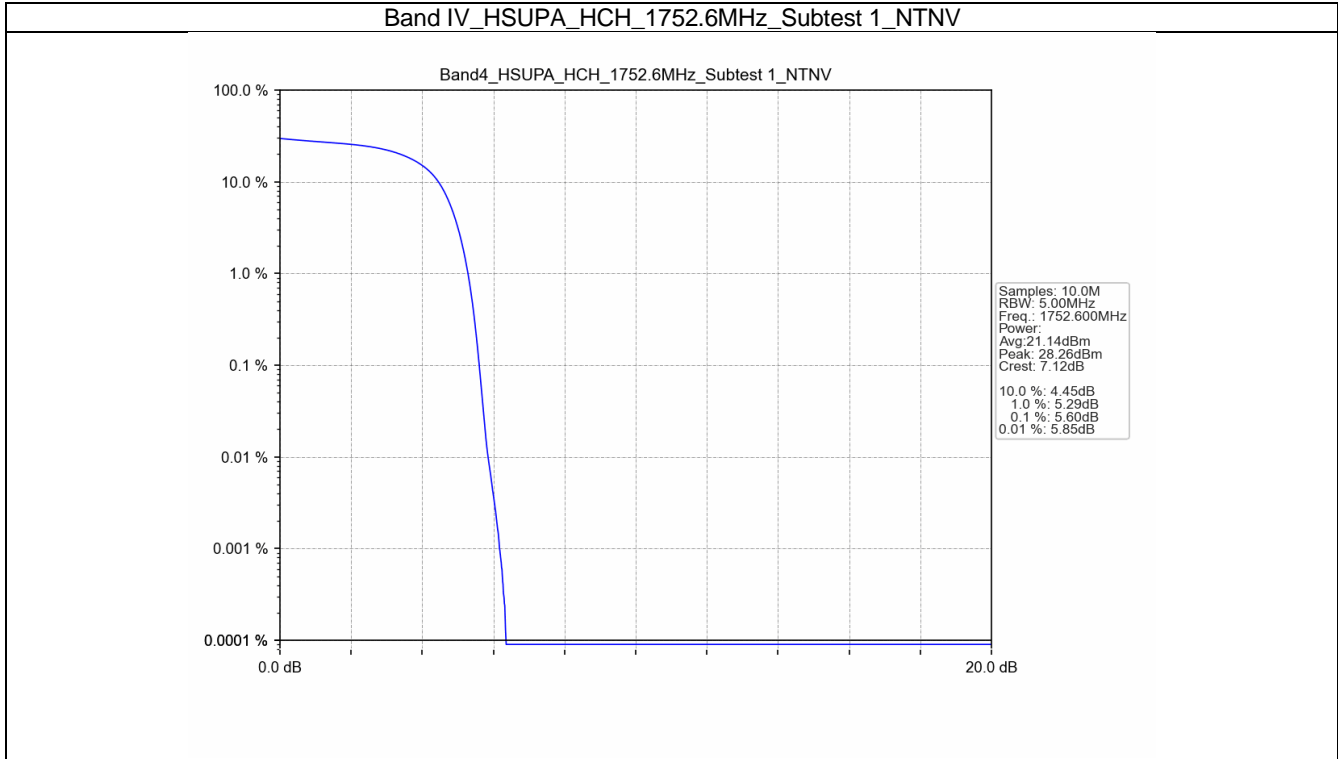
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5. Spurious Emission & Band Edge

5.1 Band IV

5.1.1 Test Result

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	



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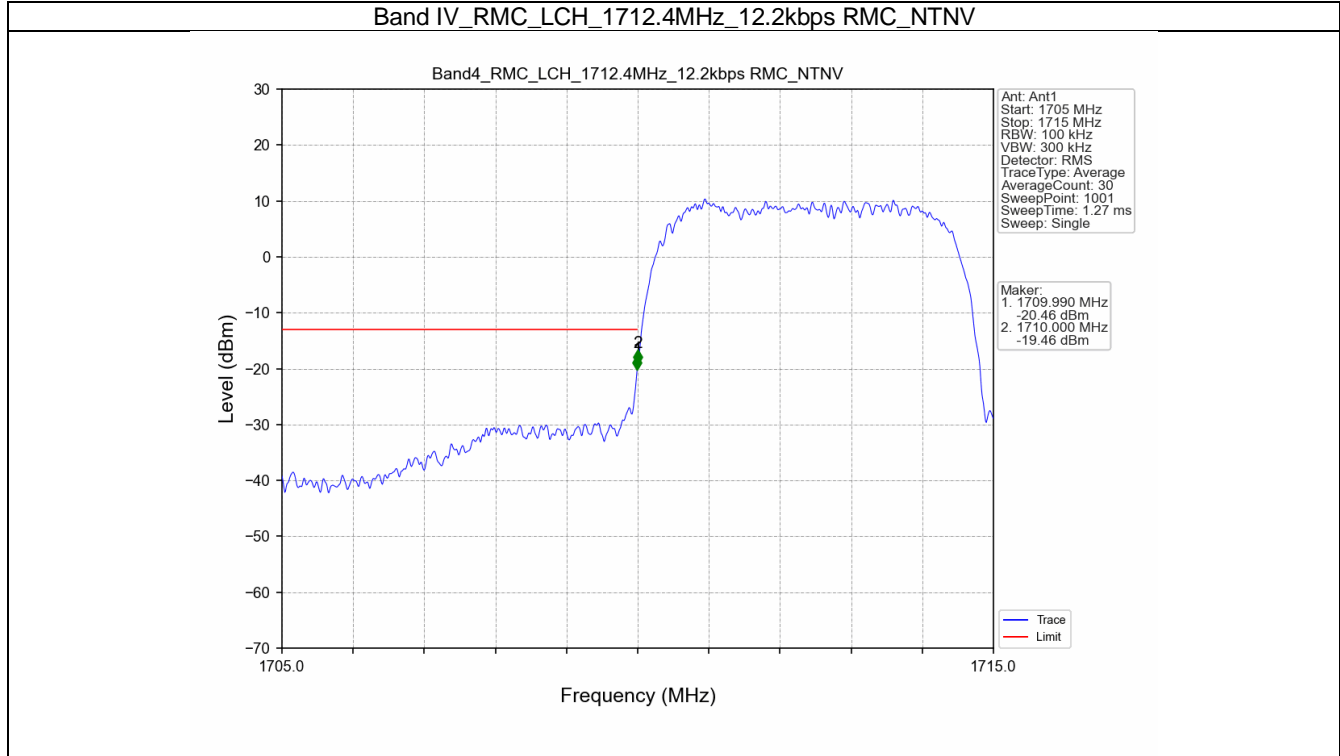
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5.1.2 Test Graph



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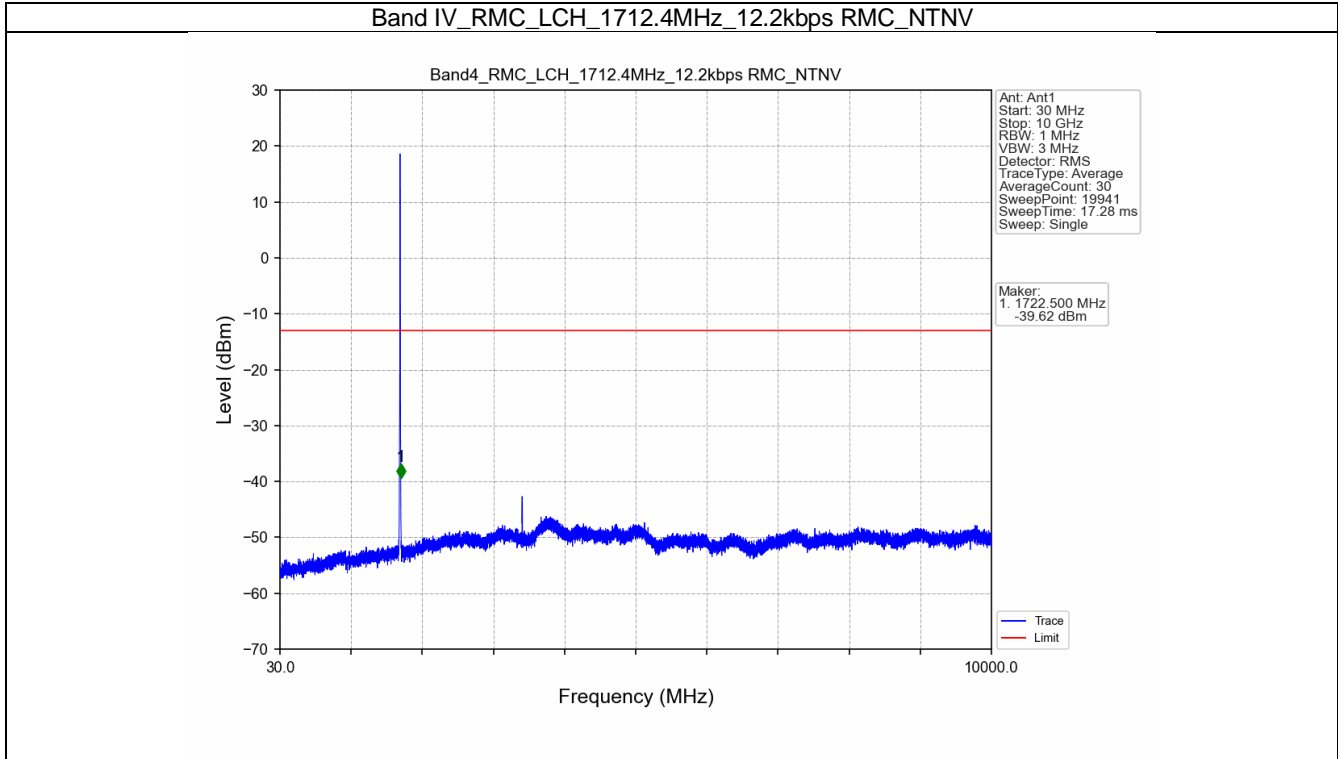
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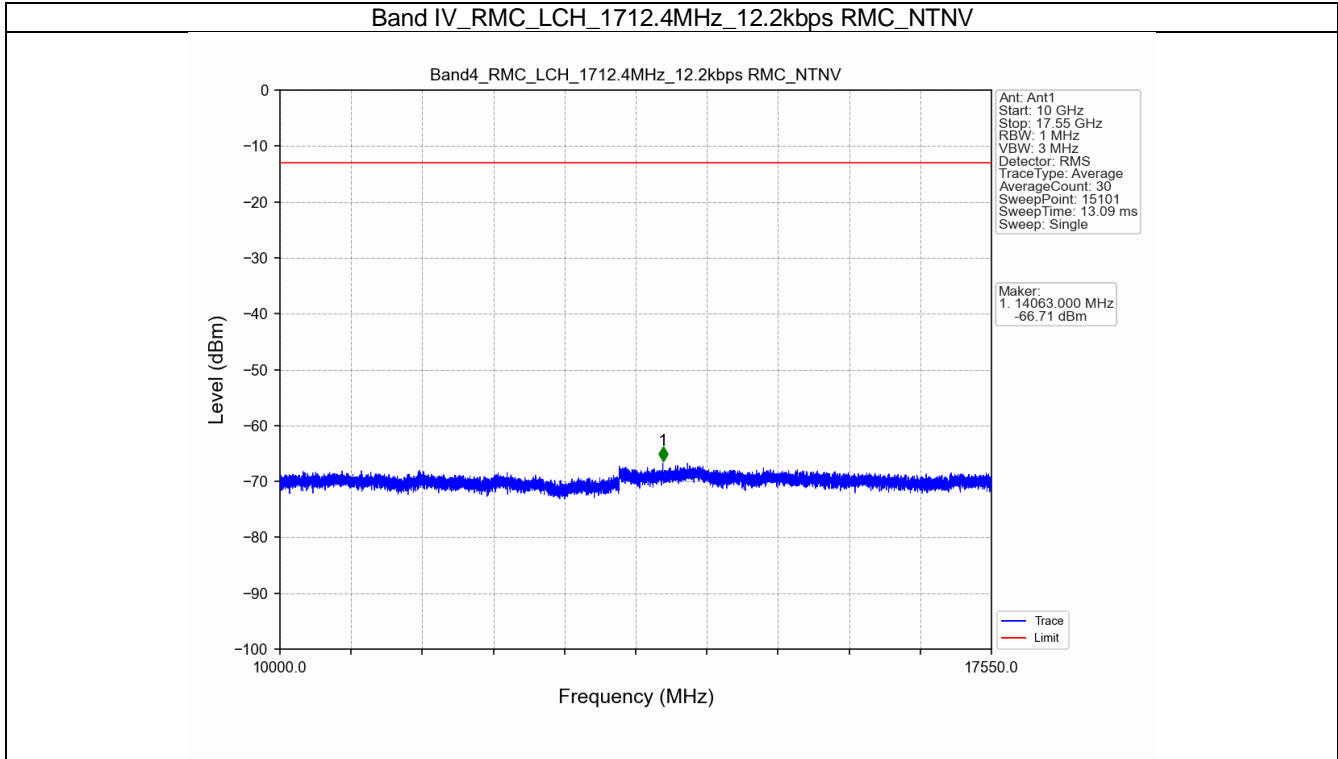
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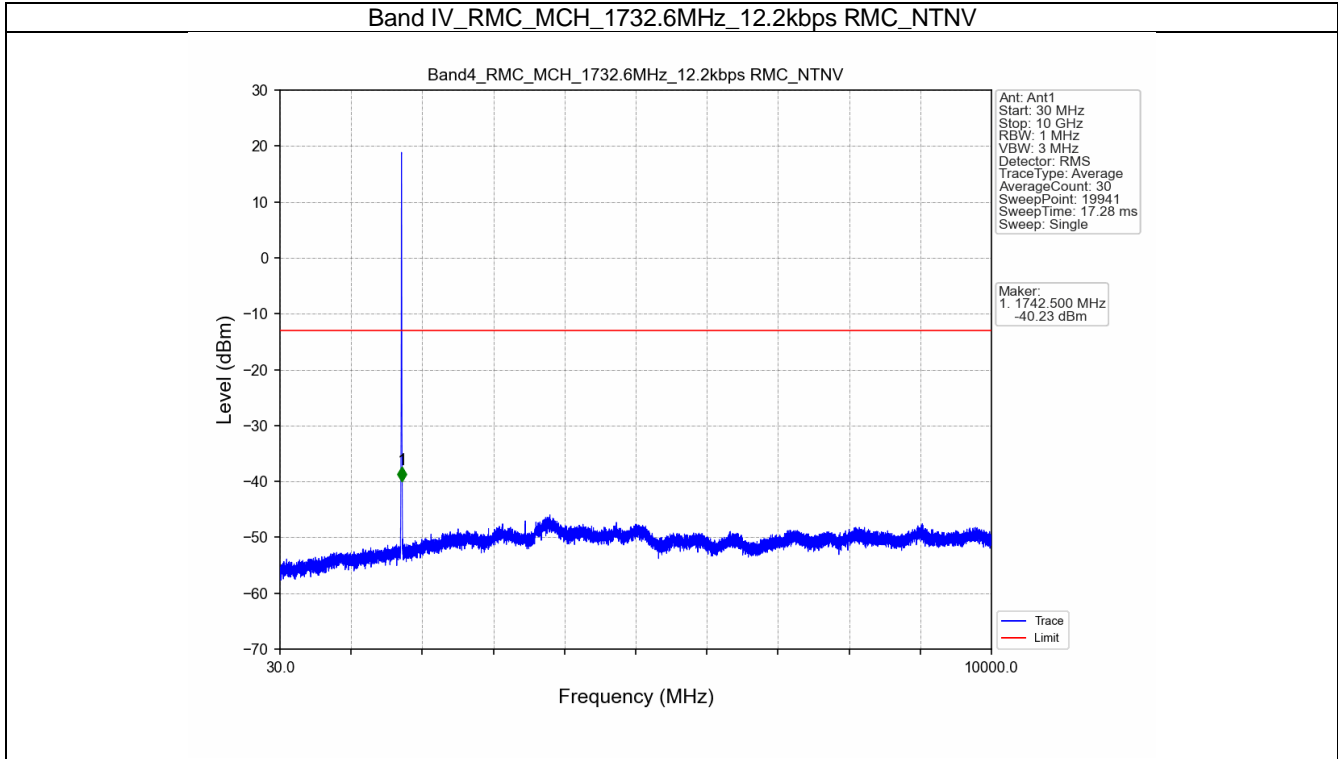
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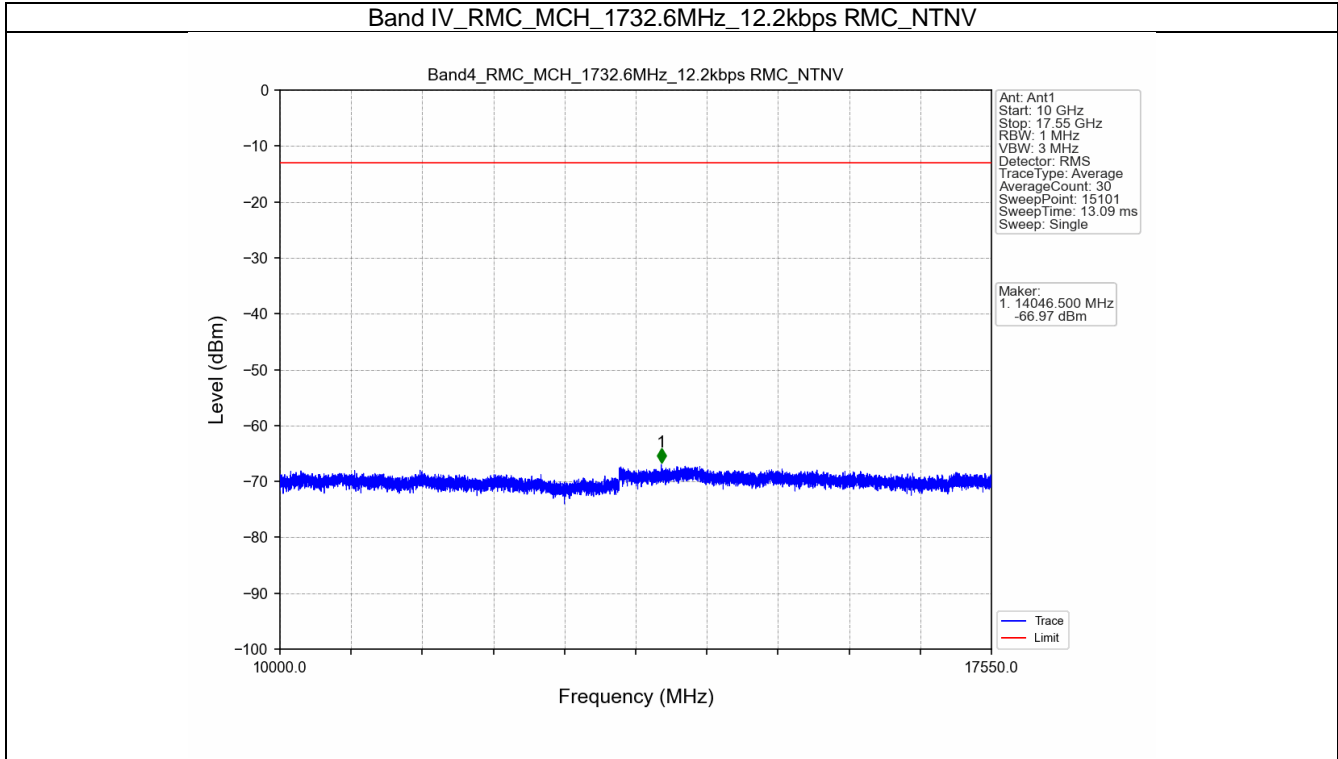
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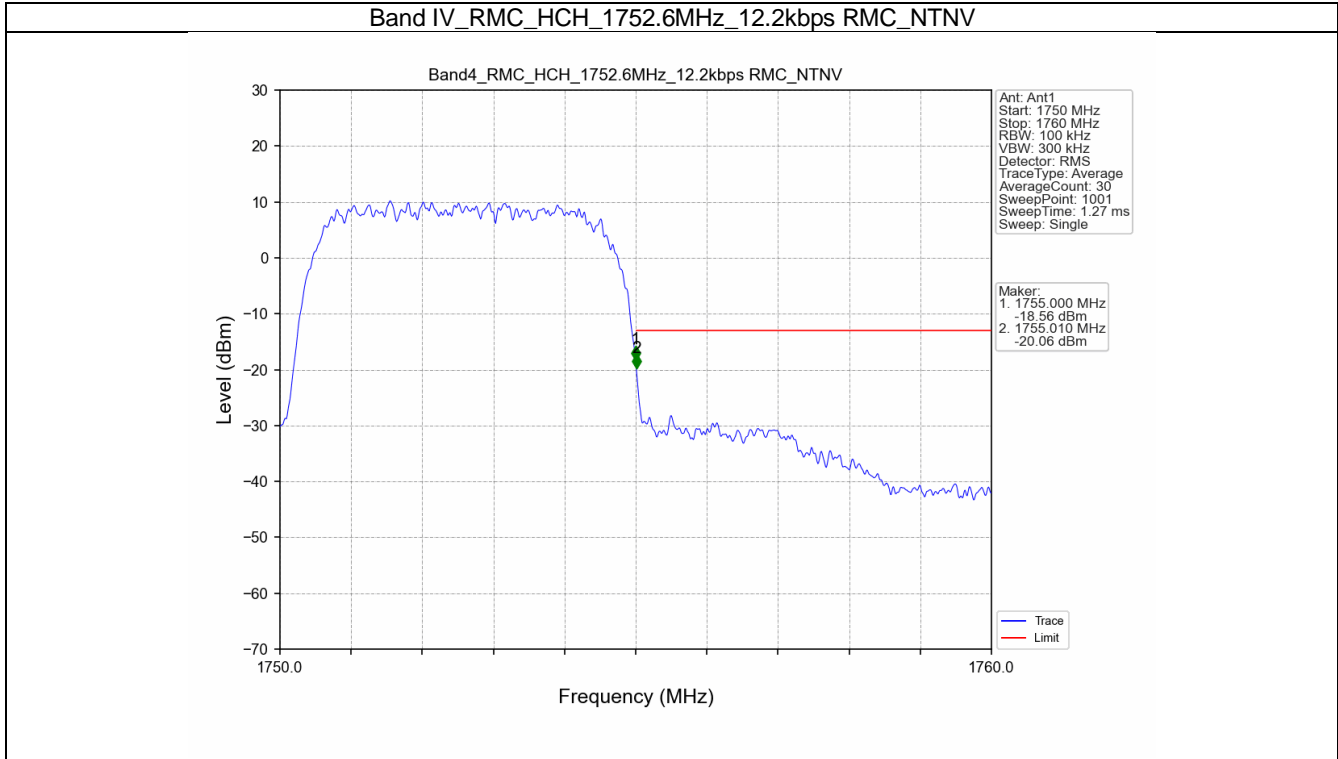
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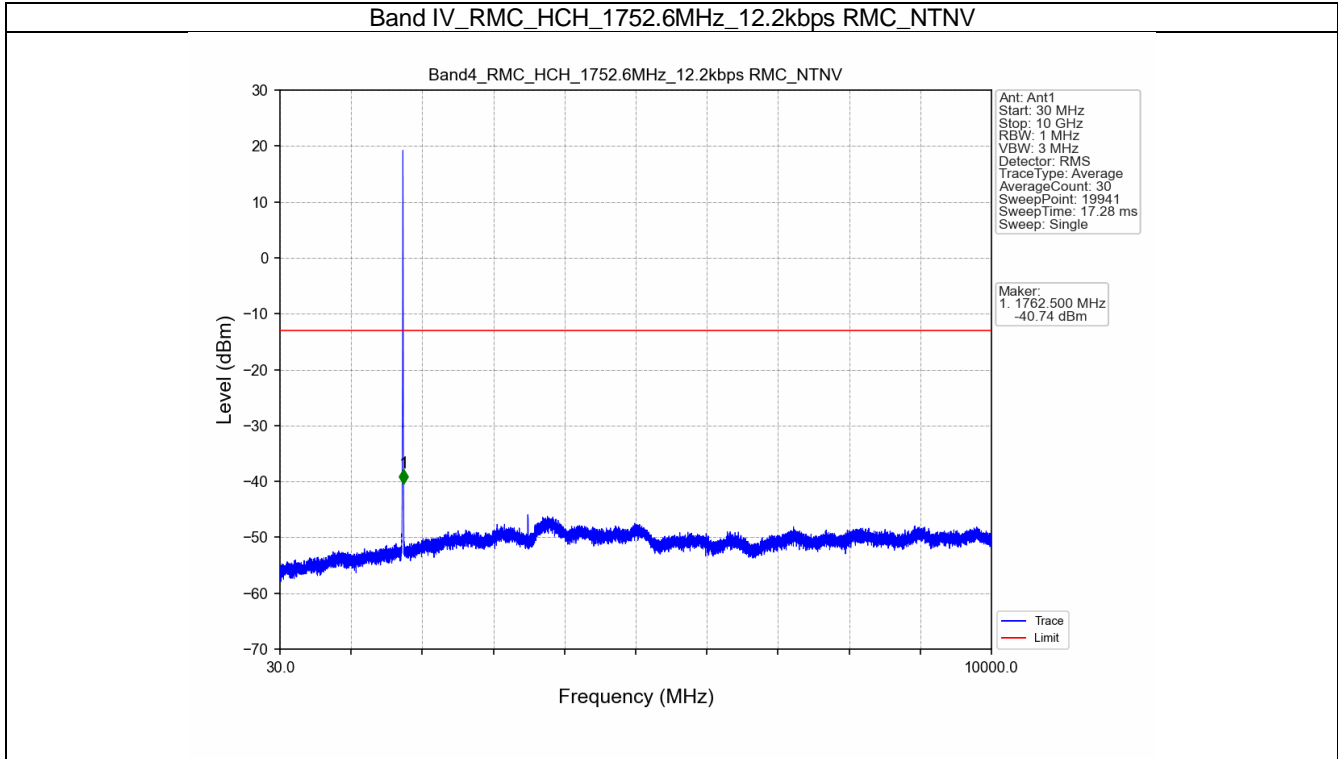
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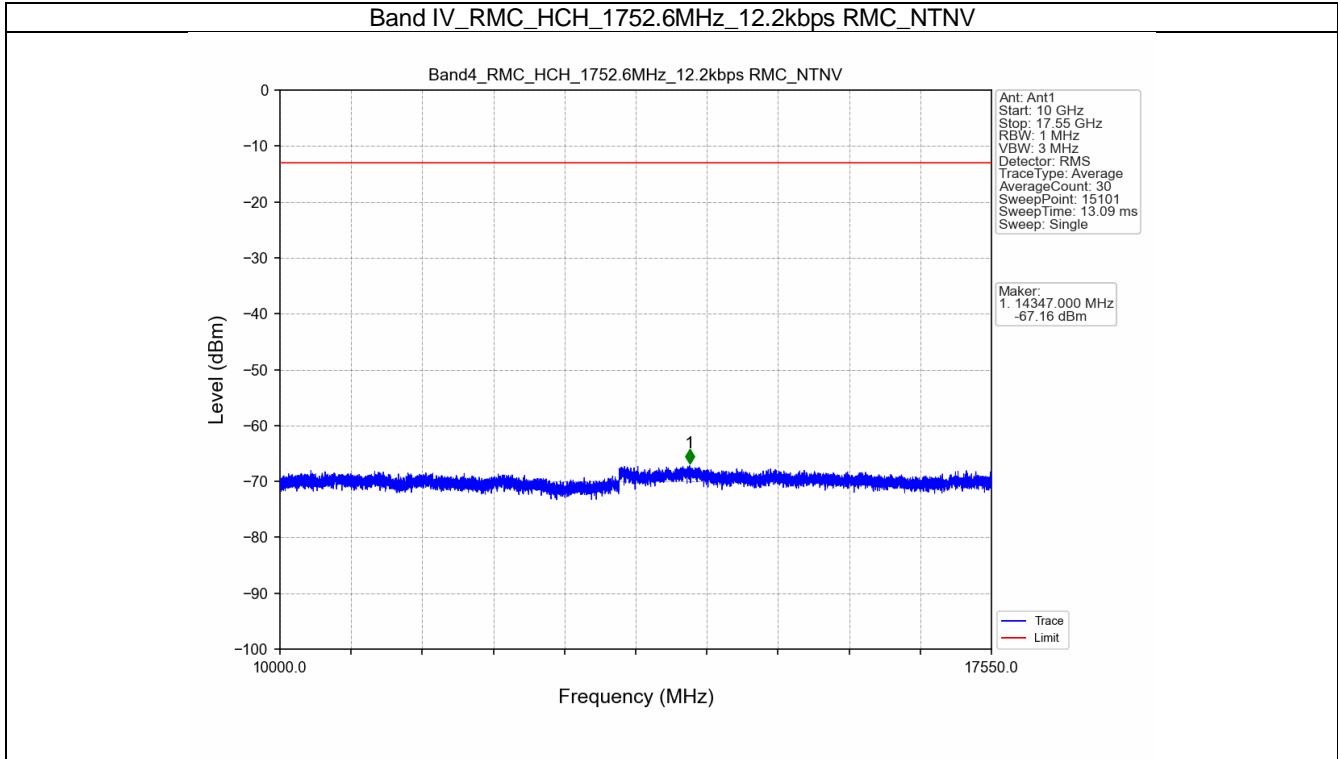
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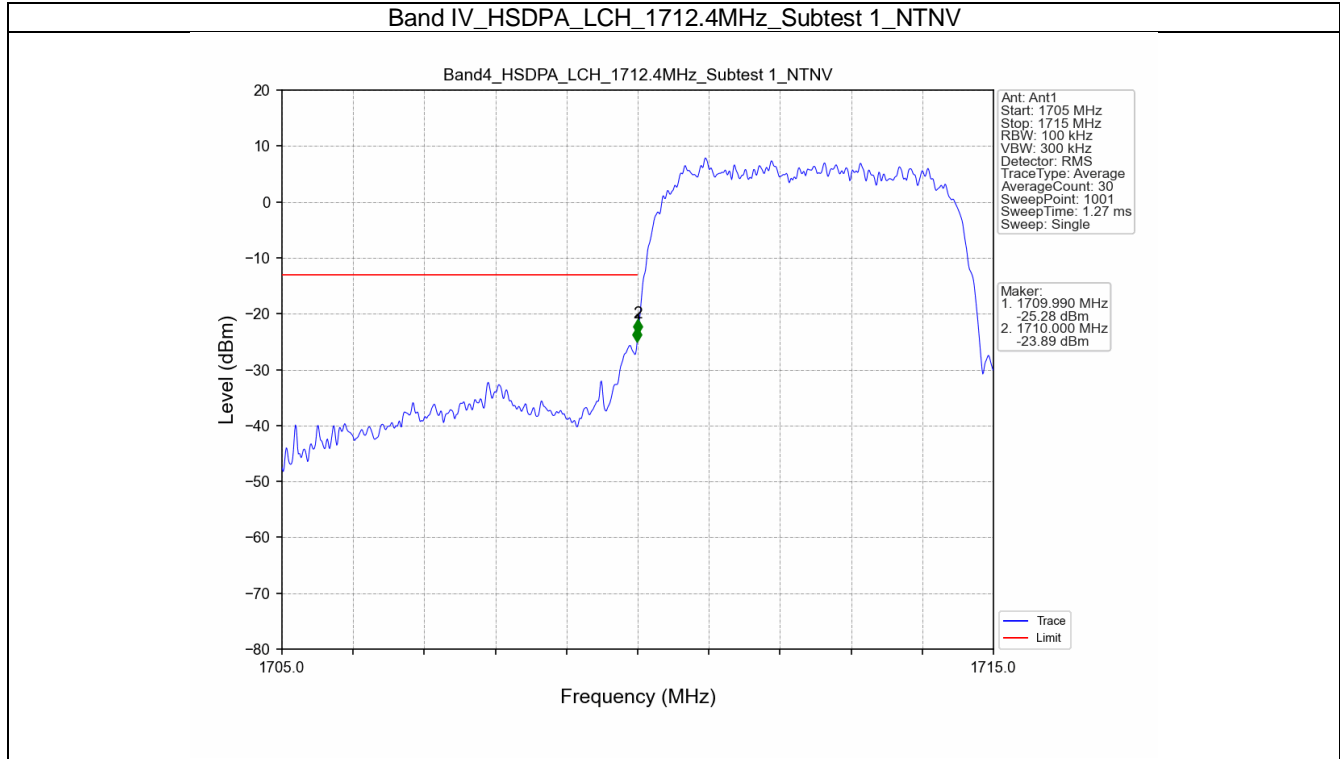
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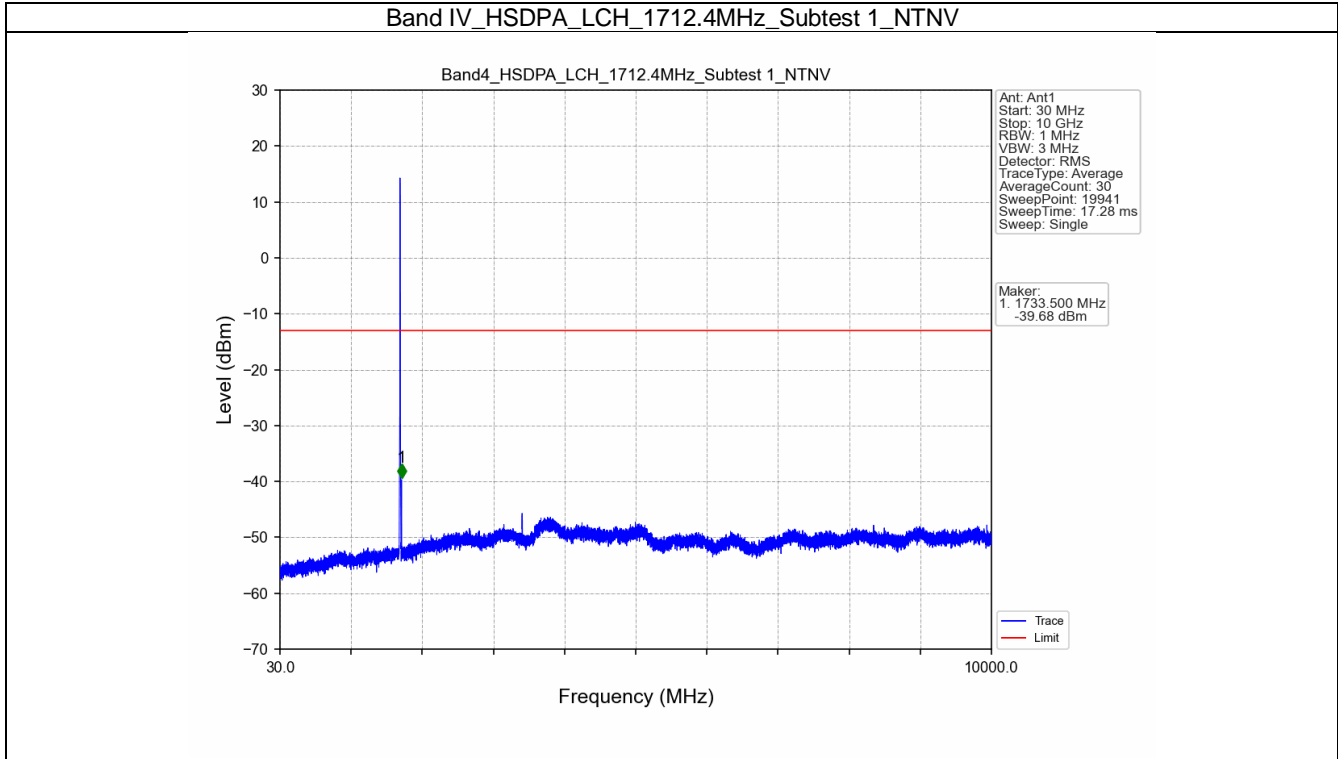
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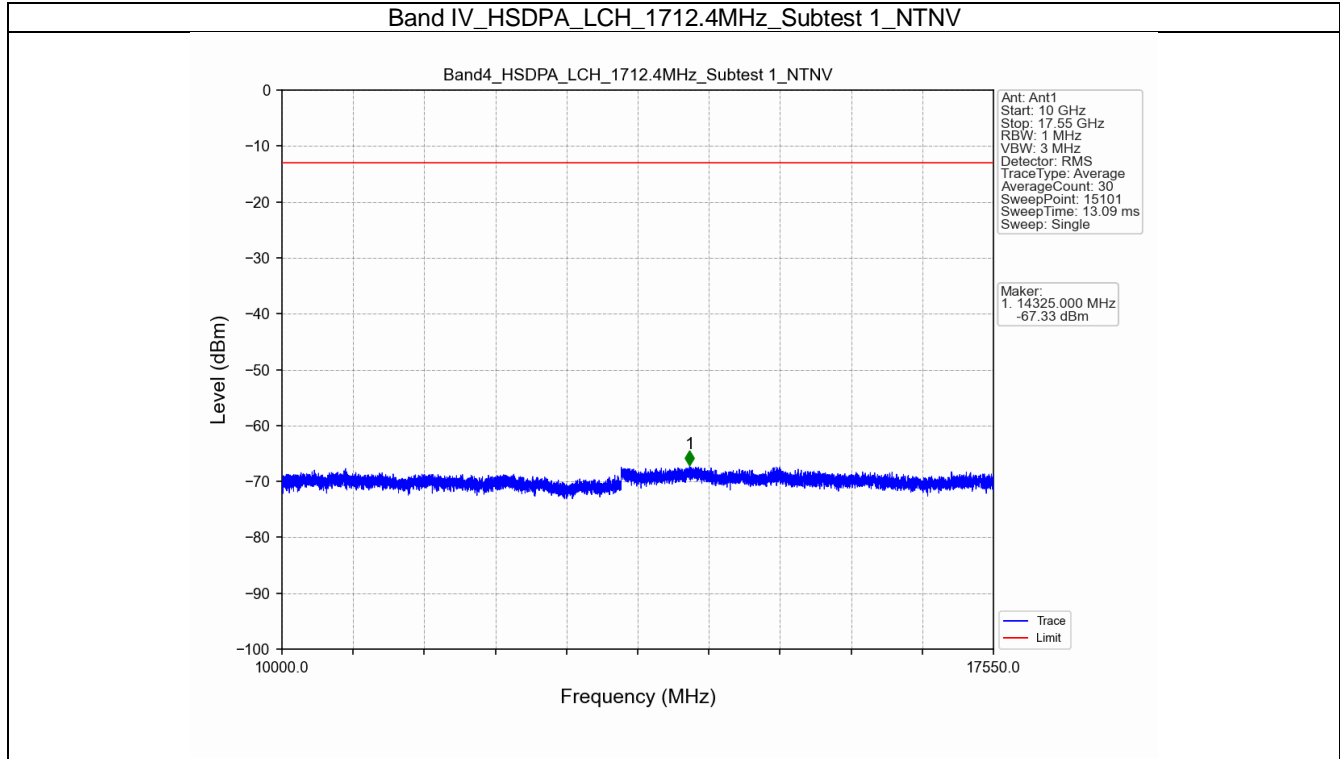
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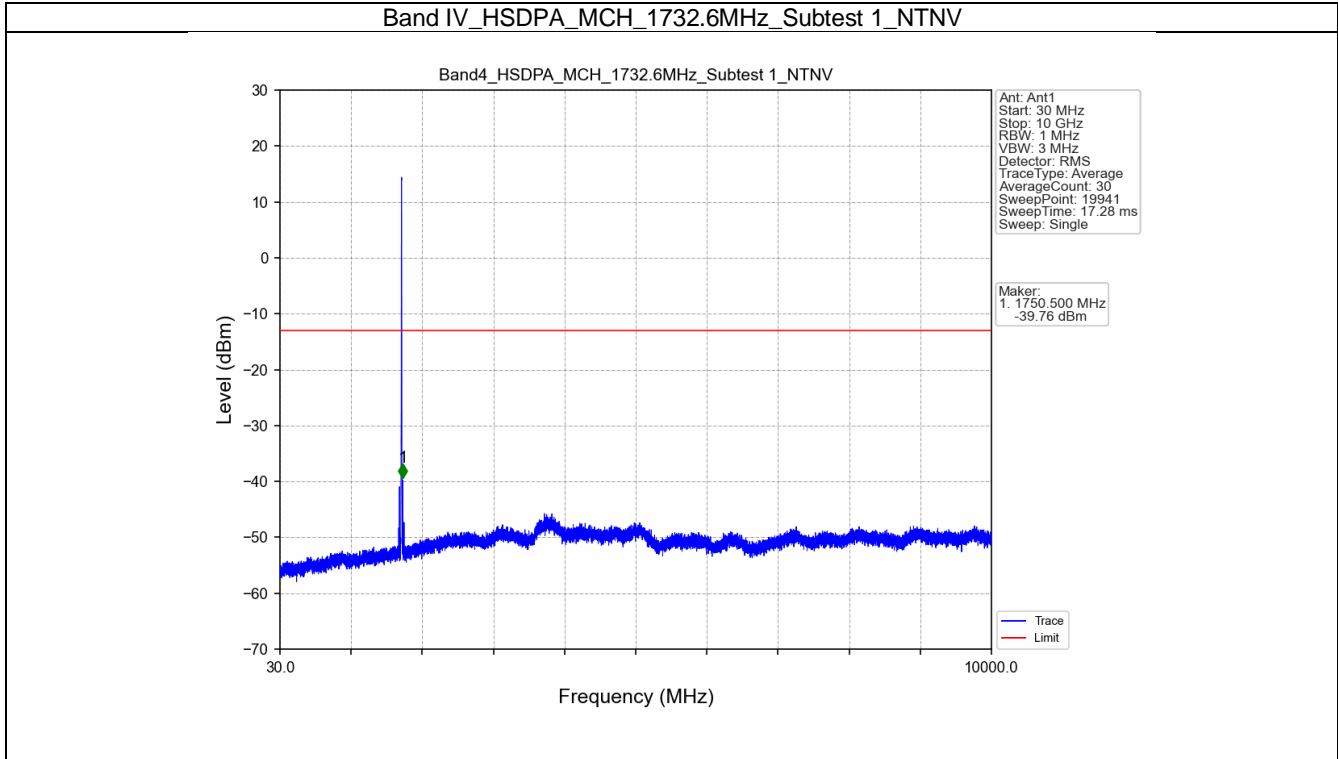
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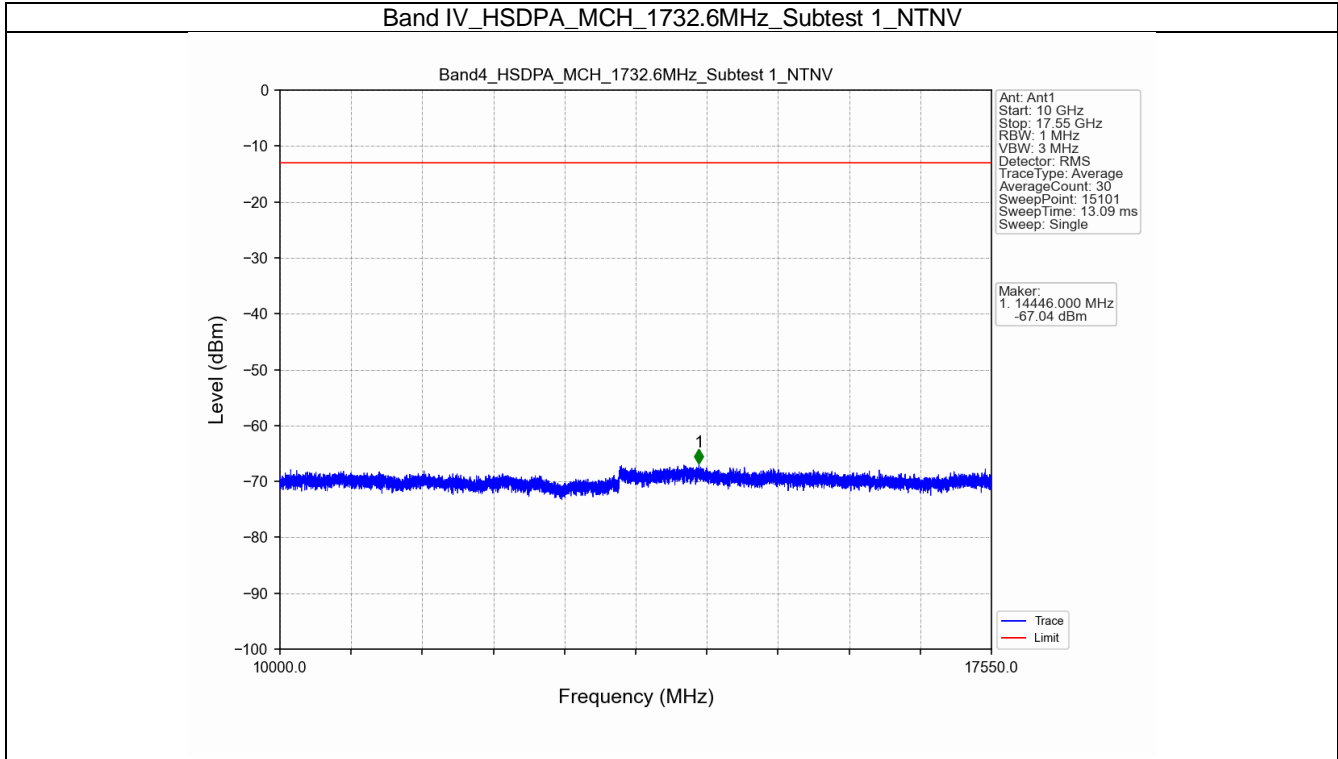
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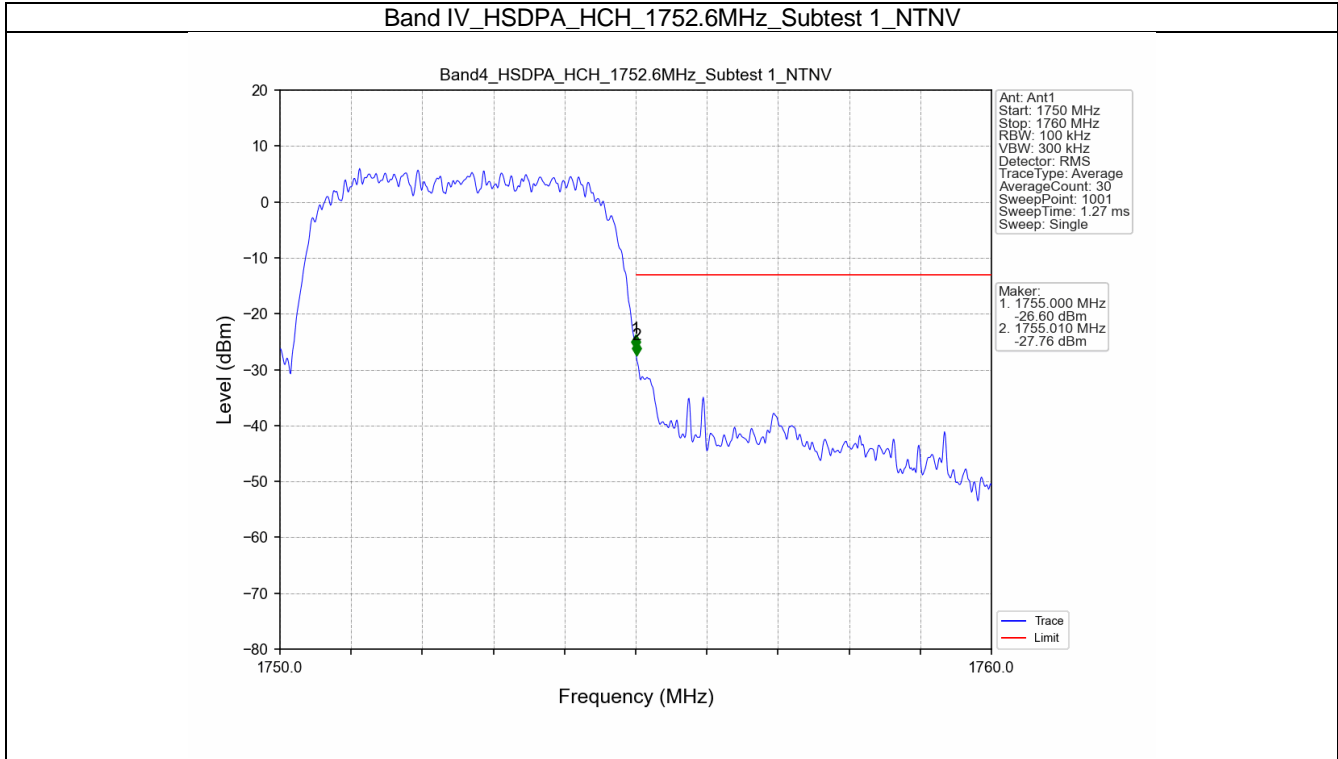
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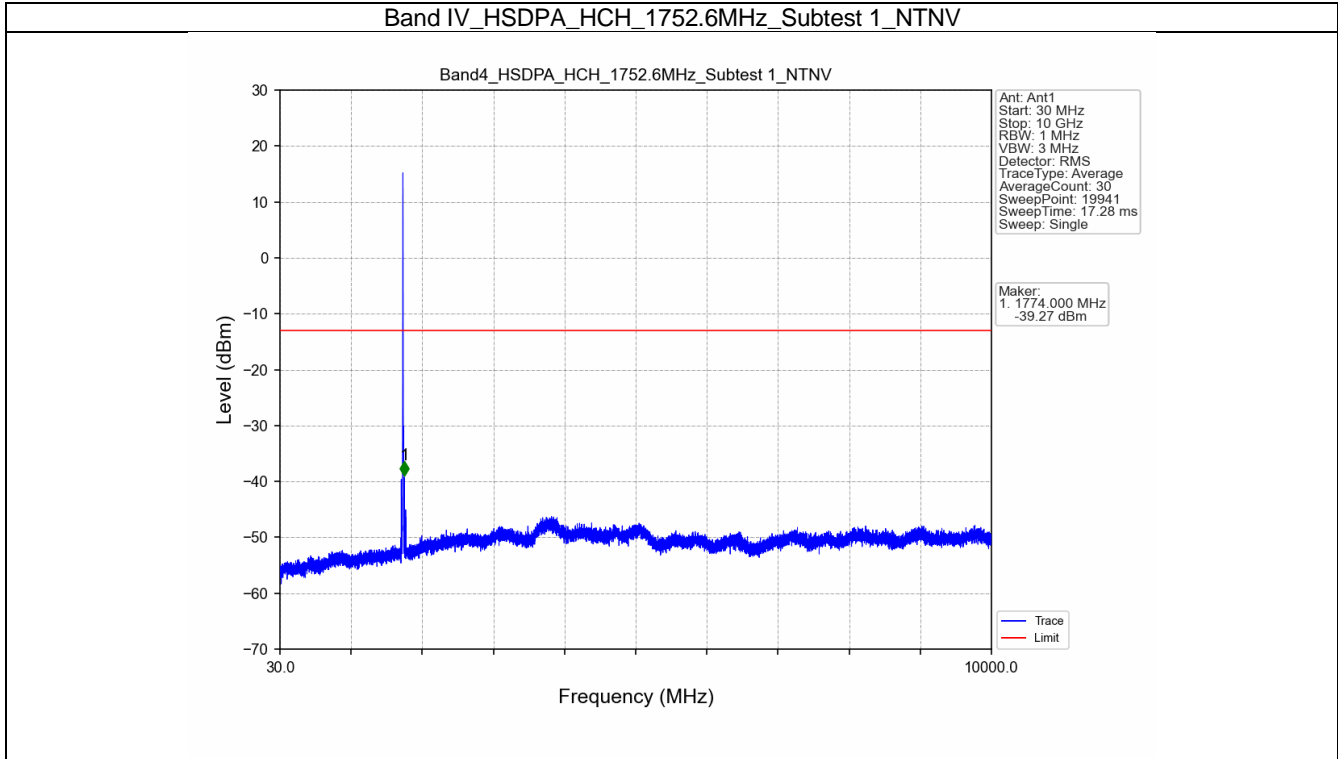
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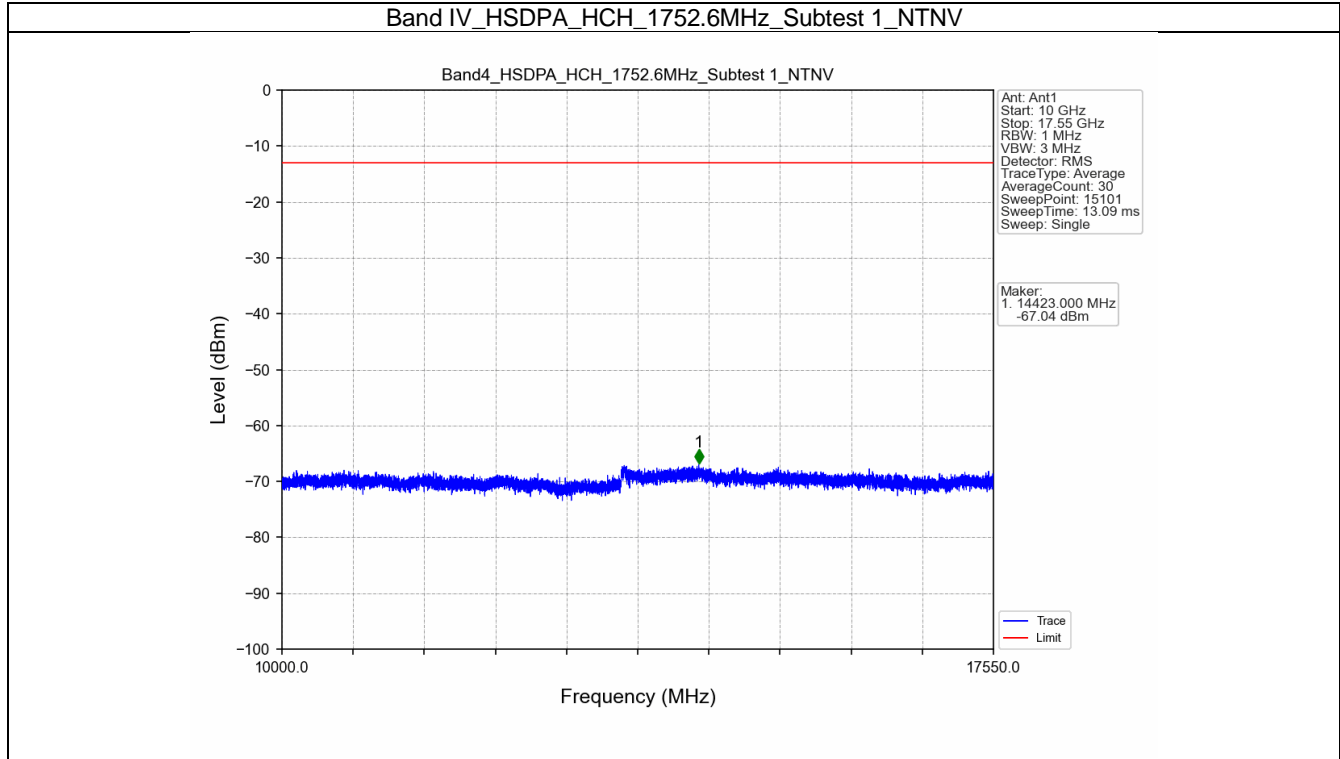
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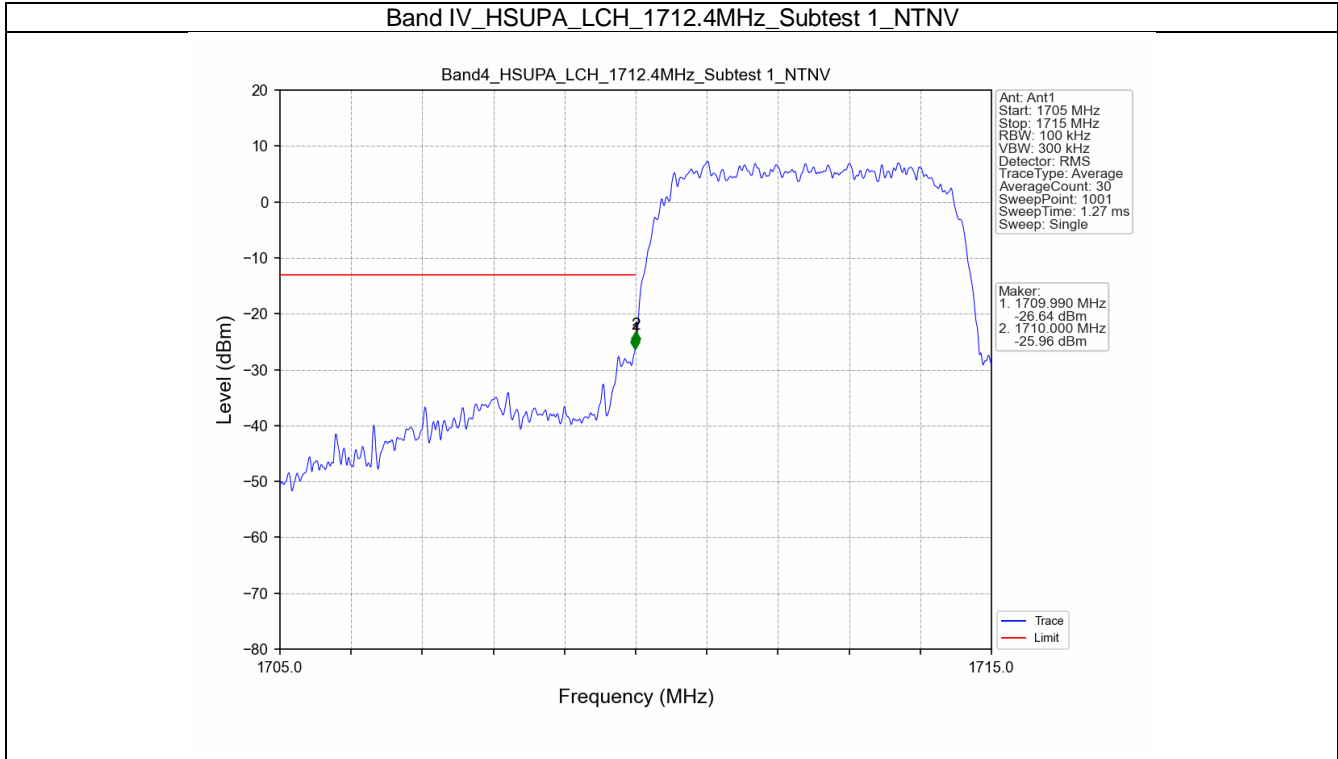
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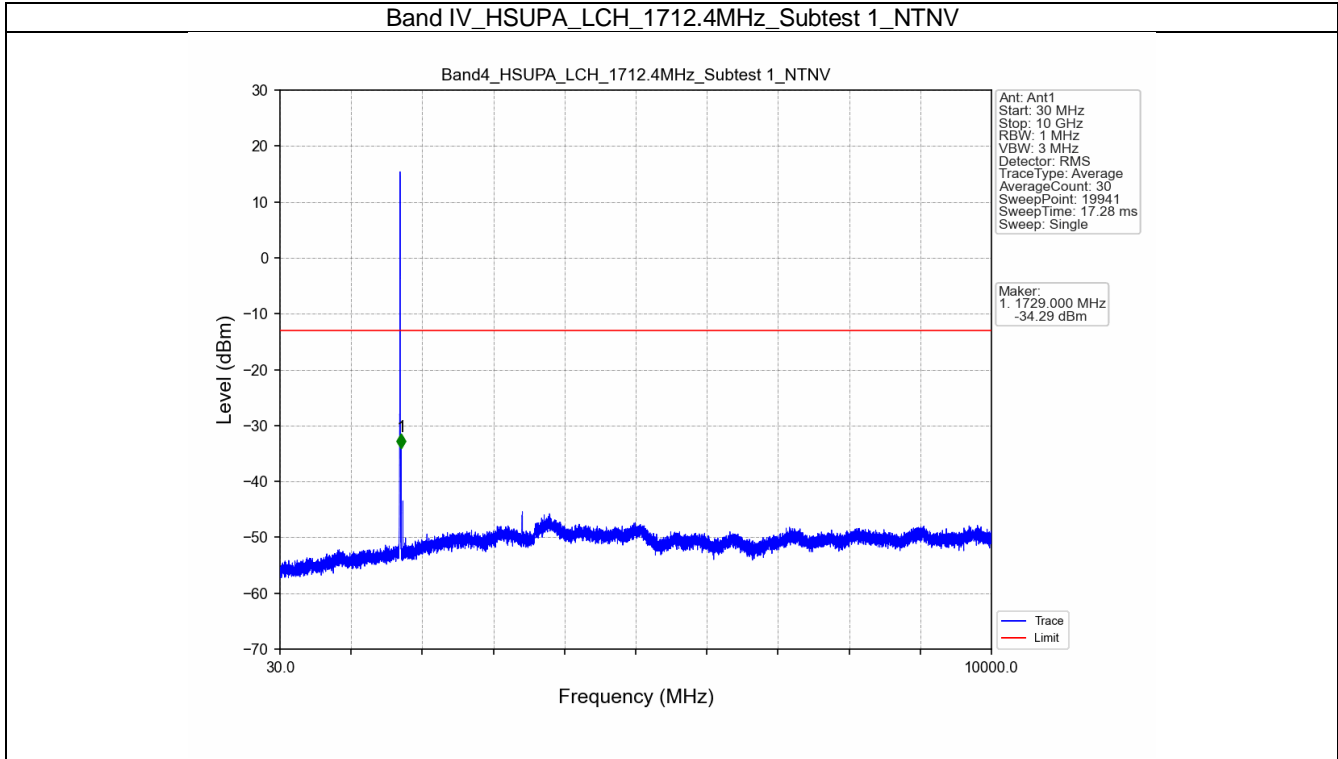
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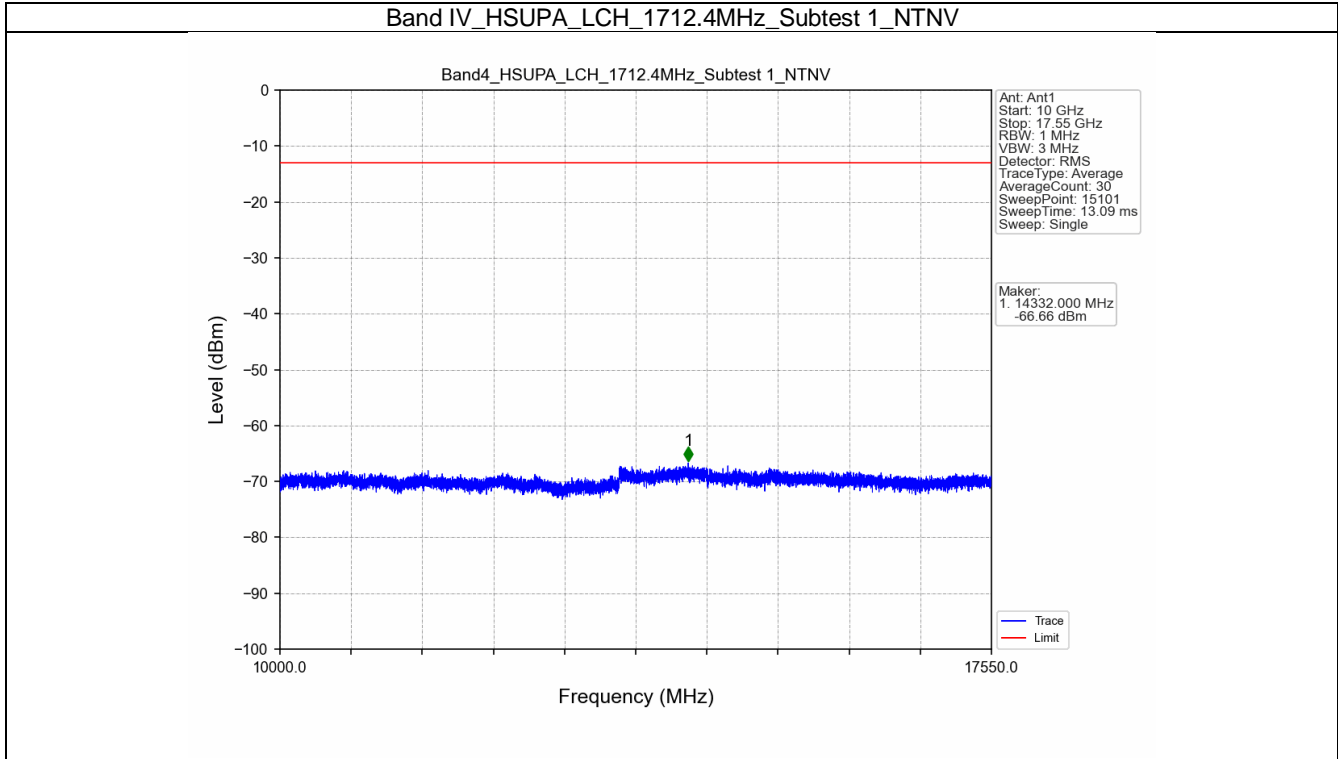
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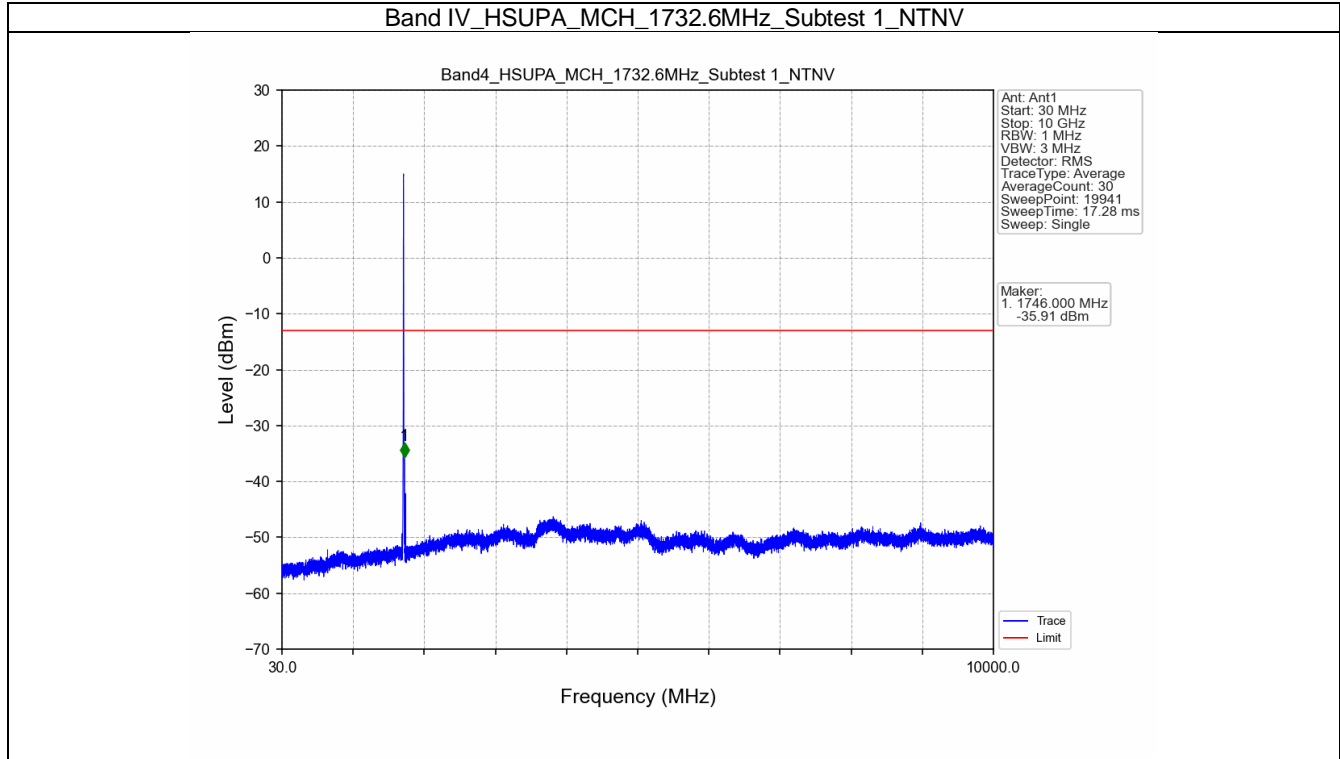
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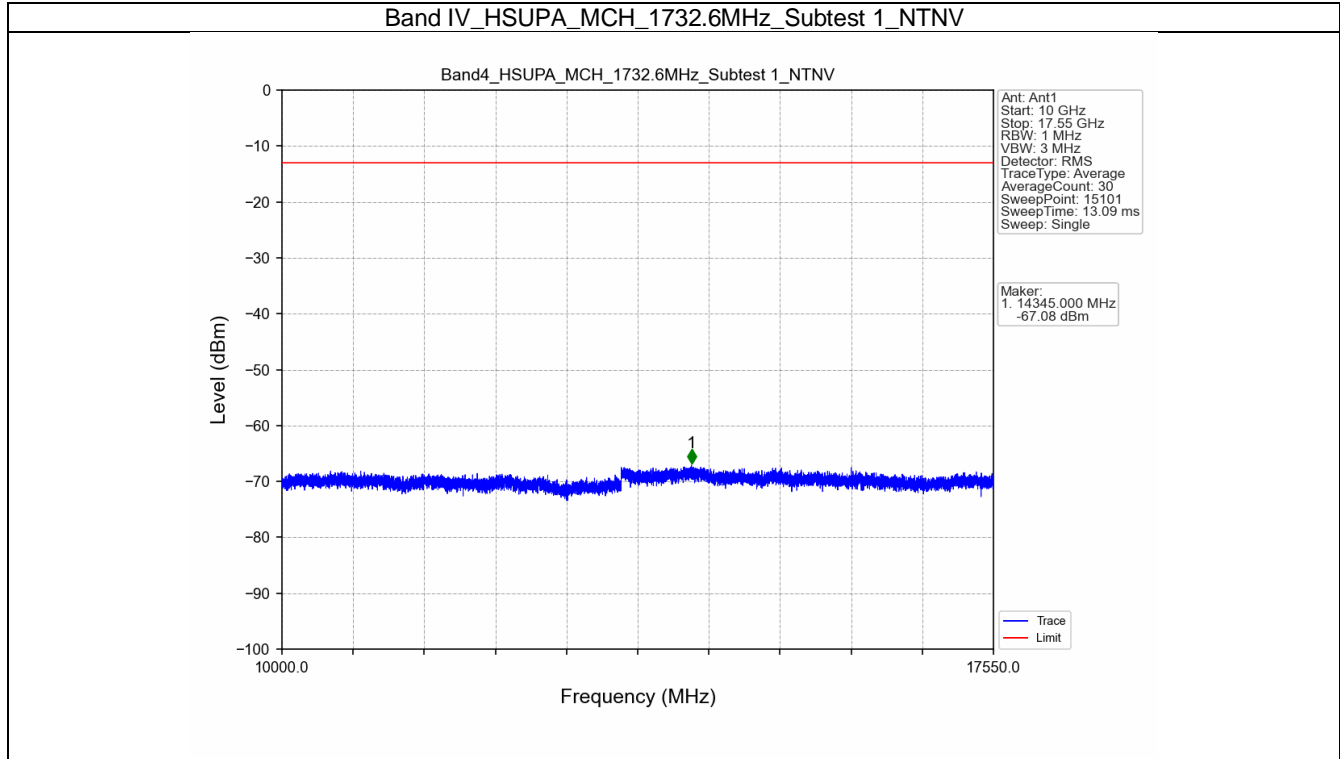
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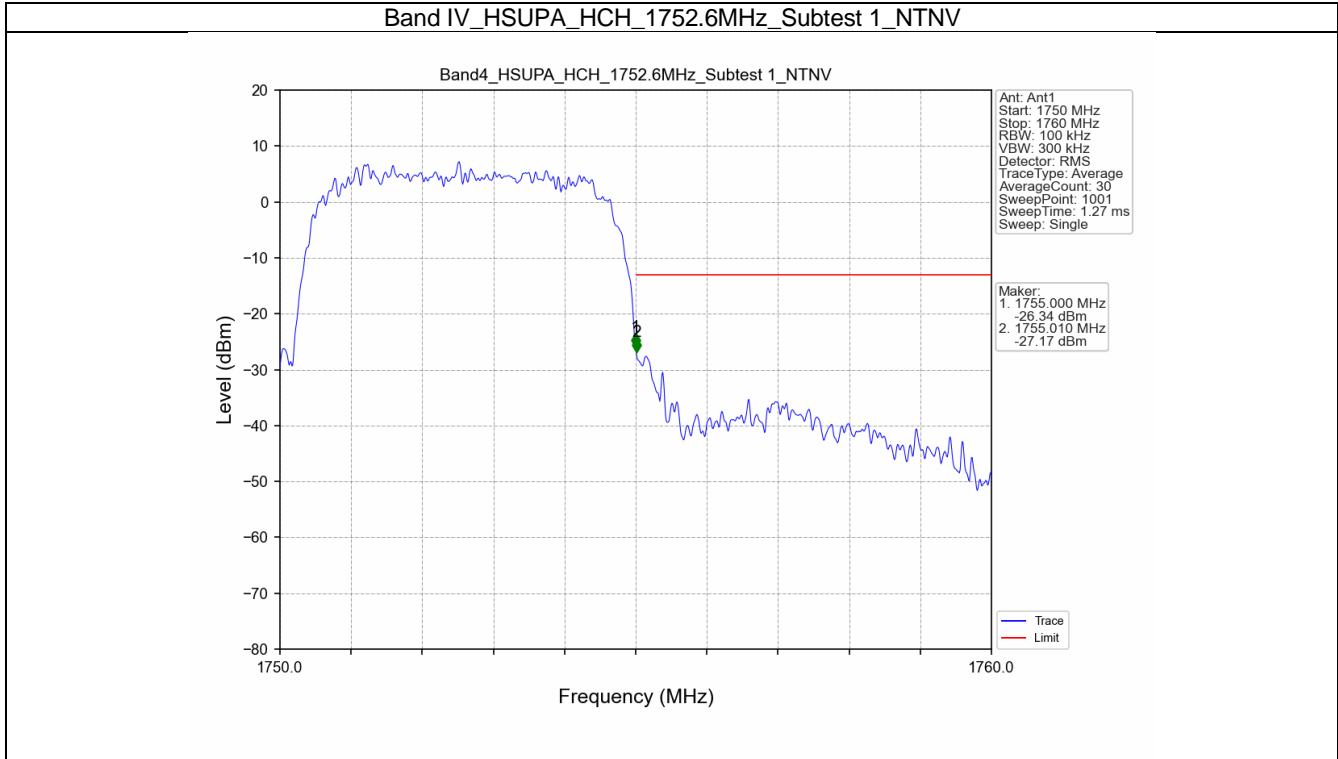
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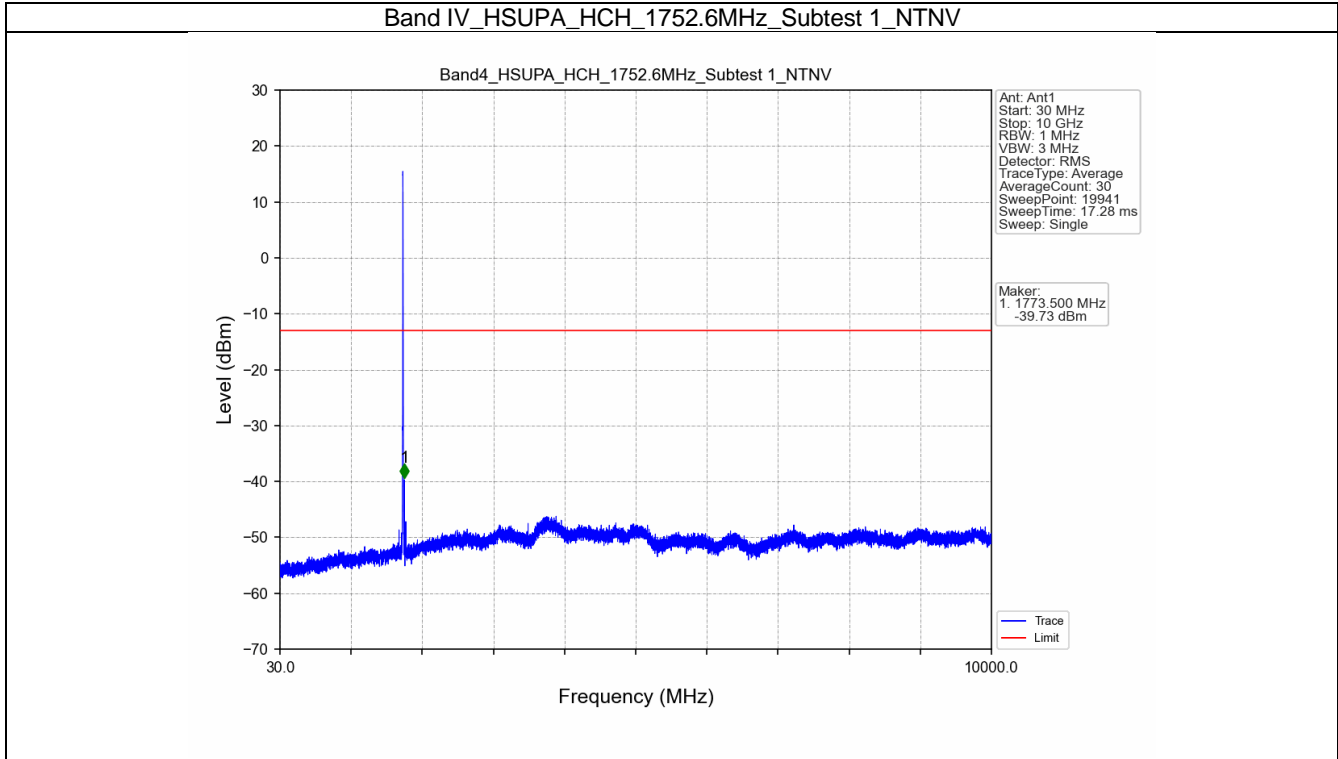
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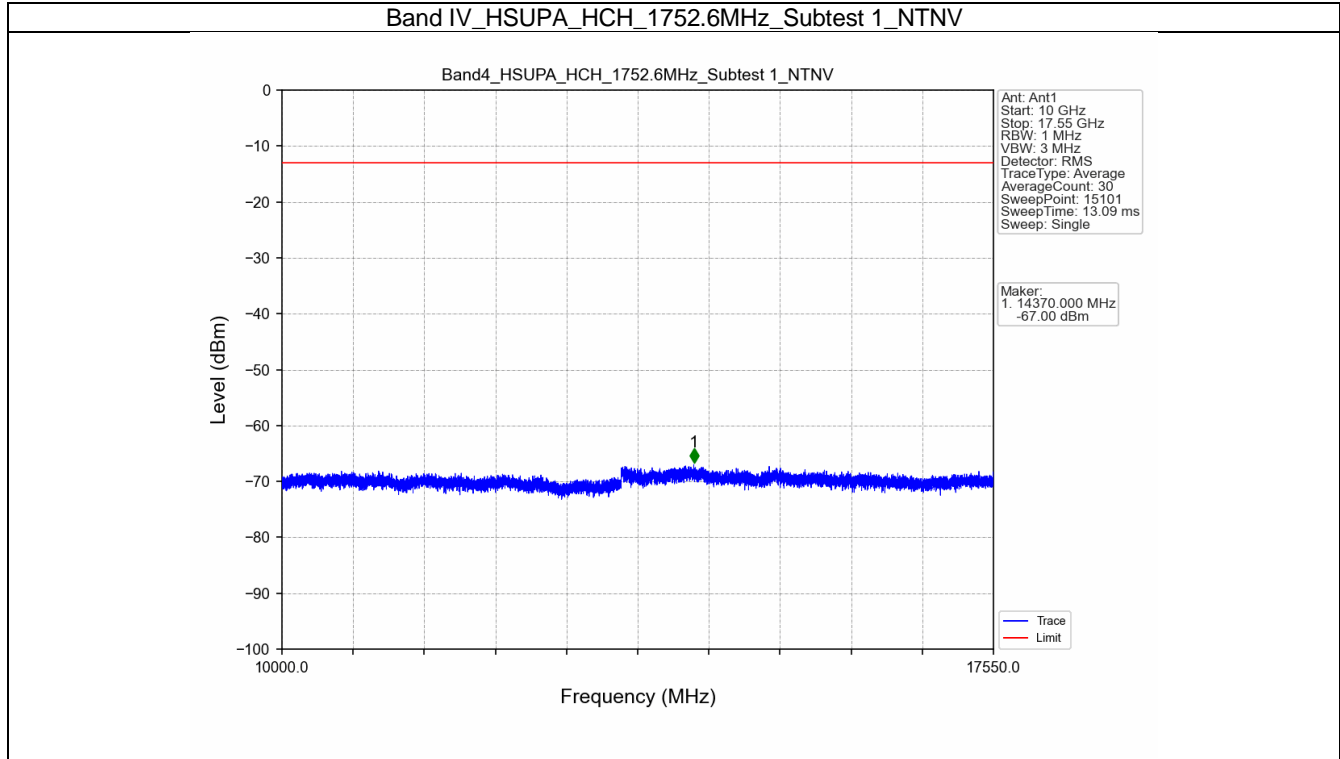
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6. Field Strength of Spurious Radiation

Test Band = Band IV _ TM1

Test Channel = low

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3424.8	32.1	6.13	36.12	-63.74	-50.33	-13	-37.33	Horizontal
5137.2	33.93	7.54	35.32	-63.95	-46.32	-13	-33.32	Horizontal
6849.6	35.5	8.81	35.48	-64.7	-45.33	-13	-32.33	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3424.8	32.1	6.13	36.12	-63.08	-49.67	-13	-36.67	Vertical
5137.2	33.93	7.54	35.32	-64.33	-46.7	-13	-33.7	Vertical
6849.6	35.5	8.81	35.48	-64.42	-45.05	-13	-32.05	Vertical



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Test Band = Band IV _ TM1**Test Channel = mid**

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3465.2	31.74	6.18	36.12	-63.26	-50.18	-13	-37.18	Horizontal
5197.8	34	7.59	35.29	-64.94	-47.22	-13	-34.22	Horizontal
6930.4	35.72	8.87	35.53	-64.63	-44.89	-13	-31.89	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3465.2	31.74	6.18	36.12	-63.22	-50.14	-13	-37.14	Vertical
5197.8	34	7.59	35.29	-64.36	-46.64	-13	-33.64	Vertical
6930.4	35.72	8.87	35.53	-64	-44.26	-13	-31.26	Vertical



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Test Band = Band IV _ TM1
Test Channel = high

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3505.2	31.6	6.23	36.12	-63.54	-50.57	-13	-37.57	Horizontal
5257.8	34.12	7.63	35.25	-64.09	-46.22	-13	-33.22	Horizontal
7010.4	35.7	8.93	35.58	-64.07	-44.24	-13	-31.24	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3505.2	31.6	6.23	36.12	-63.19	-50.22	-13	-37.22	Vertical
5257.8	34.12	7.63	35.25	-65.65	-47.78	-13	-34.78	Vertical
7010.4	35.7	8.93	35.58	-63.31	-43.48	-13	-30.48	Vertical

Remark:

1) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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