



Appendix B.4 for KSEM2108001480CR-WCDMA-Band 4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band4_EIRP

1.1.1 Test Result

Band: 4								
ENV	Mode		Frequency (MHz)	Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	22.74	-1.00	21.74	<=30	Pass
			1732.6	22.24	-1.00	21.24	<=30	Pass
			1752.6	22.42	-1.00	21.42	<=30	Pass
	HSDPA	Subtest 1	1712.4	20.78	-1.00	19.78	<=30	Pass
		Subtest 2	1712.4	21.00	-1.00	20.00	<=30	Pass
		Subtest 3	1712.4	21.06	-1.00	20.06	<=30	Pass
		Subtest 4	1712.4	21.04	-1.00	20.04	<=30	Pass
		Subtest 1	1732.6	20.81	-1.00	19.81	<=30	Pass
		Subtest 2	1732.6	20.97	-1.00	19.97	<=30	Pass
		Subtest 3	1732.6	20.91	-1.00	19.91	<=30	Pass
		Subtest 4	1732.6	20.90	-1.00	19.90	<=30	Pass
		Subtest 1	1752.6	20.94	-1.00	19.94	<=30	Pass
		Subtest 2	1752.6	21.02	-1.00	20.02	<=30	Pass
		Subtest 3	1752.6	21.04	-1.00	20.04	<=30	Pass
		Subtest 4	1752.6	21.04	-1.00	20.04	<=30	Pass
	HSUPA	Subtest 1	1712.4	18.86	-1.00	17.86	<=30	Pass
		Subtest 2	1712.4	18.53	-1.00	17.53	<=30	Pass
		Subtest 3	1712.4	18.88	-1.00	17.88	<=30	Pass
		Subtest 4	1712.4	18.84	-1.00	17.84	<=30	Pass
		Subtest 5	1712.4	18.88	-1.00	17.88	<=30	Pass
		Subtest 1	1732.6	18.80	-1.00	17.80	<=30	Pass
		Subtest 2	1732.6	18.47	-1.00	17.47	<=30	Pass
		Subtest 3	1732.6	18.82	-1.00	17.82	<=30	Pass
		Subtest 4	1732.6	18.77	-1.00	17.77	<=30	Pass
		Subtest 5	1732.6	18.99	-1.00	17.99	<=30	Pass
		Subtest 1	1752.6	18.97	-1.00	17.97	<=30	Pass
		Subtest 2	1752.6	18.65	-1.00	17.65	<=30	Pass
		Subtest 3	1752.6	18.98	-1.00	17.98	<=30	Pass
		Subtest 4	1752.6	18.66	-1.00	17.66	<=30	Pass
		Subtest 5	1752.6	19.17	-1.00	18.17	<=30	Pass

Note1: EIRP=Power+Antenna Gain

Remark1:

For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Power [dBm] + Gain [dBd]

EIRP [dBm] = Power [dBm] + Gain [dBi]



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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	0.44	0.00	-2.5 to 2.5	Pass
			3.85	0.97	0.00	-2.5 to 2.5	Pass
			4.43	0.36	0.00	-2.5 to 2.5	Pass
		-30	3.85	0.02	0.00	-2.5 to 2.5	Pass
		-20	3.85	0.00	0.00	-2.5 to 2.5	Pass
		-10	3.85	-0.59	-0.00	-2.5 to 2.5	Pass
		0	3.85	-0.24	-0.00	-2.5 to 2.5	Pass
		10	3.85	-0.54	-0.00	-2.5 to 2.5	Pass
		30	3.85	-0.36	-0.00	-2.5 to 2.5	Pass
		40	3.85	-0.50	-0.00	-2.5 to 2.5	Pass
		50	3.85	-0.38	-0.00	-2.5 to 2.5	Pass
	1732.6	20	3.27	-2.42	-0.00	-2.5 to 2.5	Pass
			3.85	-2.47	-0.00	-2.5 to 2.5	Pass
			4.43	-2.02	-0.00	-2.5 to 2.5	Pass
		-30	3.85	-0.86	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-2.36	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-2.70	-0.00	-2.5 to 2.5	Pass
		0	3.85	-2.67	-0.00	-2.5 to 2.5	Pass
		10	3.85	-2.65	-0.00	-2.5 to 2.5	Pass
		30	3.85	-2.51	-0.00	-2.5 to 2.5	Pass
		40	3.85	-2.47	-0.00	-2.5 to 2.5	Pass
		50	3.85	-2.47	-0.00	-2.5 to 2.5	Pass
	1752.6	20	3.27	0.31	0.00	-2.5 to 2.5	Pass
			3.85	0.29	0.00	-2.5 to 2.5	Pass
			4.43	-0.14	-0.00	-2.5 to 2.5	Pass
		-30	3.85	0.04	0.00	-2.5 to 2.5	Pass
		-20	3.85	-0.16	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-0.22	-0.00	-2.5 to 2.5	Pass
		0	3.85	-0.32	-0.00	-2.5 to 2.5	Pass
		10	3.85	-0.41	-0.00	-2.5 to 2.5	Pass
		30	3.85	-0.12	-0.00	-2.5 to 2.5	Pass
		40	3.85	-0.49	-0.00	-2.5 to 2.5	Pass
		50	3.85	-0.61	-0.00	-2.5 to 2.5	Pass
HSDPA	1712.4	20	3.27	-29.88	-0.02	-2.5 to 2.5	Pass
			3.85	-29.75	-0.02	-2.5 to 2.5	Pass
			4.43	-30.24	-0.02	-2.5 to 2.5	Pass
		-30	3.85	-30.31	-0.02	-2.5 to 2.5	Pass
		-20	3.85	-29.98	-0.02	-2.5 to 2.5	Pass



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		-10	3.85	-30.58	-0.02	-2.5 to 2.5	Pass
		0	3.85	-30.15	-0.02	-2.5 to 2.5	Pass
		10	3.85	-30.44	-0.02	-2.5 to 2.5	Pass
		30	3.85	-30.44	-0.02	-2.5 to 2.5	Pass
		40	3.85	-30.58	-0.02	-2.5 to 2.5	Pass
		50	3.85	-30.30	-0.02	-2.5 to 2.5	Pass
	1732.6	20	3.27	-15.23	-0.01	-2.5 to 2.5	Pass
			3.85	-14.76	-0.01	-2.5 to 2.5	Pass
			4.43	-15.06	-0.01	-2.5 to 2.5	Pass
		-30	3.85	-15.04	-0.01	-2.5 to 2.5	Pass
		-20	3.85	-15.33	-0.01	-2.5 to 2.5	Pass
		-10	3.85	-14.81	-0.01	-2.5 to 2.5	Pass
		0	3.85	-15.17	-0.01	-2.5 to 2.5	Pass
		10	3.85	-14.99	-0.01	-2.5 to 2.5	Pass
		30	3.85	-15.47	-0.01	-2.5 to 2.5	Pass
		40	3.85	-15.53	-0.01	-2.5 to 2.5	Pass
		50	3.85	-15.82	-0.01	-2.5 to 2.5	Pass
	1752.6	20	3.27	-14.22	-0.01	-2.5 to 2.5	Pass
			3.85	-13.98	-0.01	-2.5 to 2.5	Pass
			4.43	-14.04	-0.01	-2.5 to 2.5	Pass
		-30	3.85	-13.99	-0.01	-2.5 to 2.5	Pass
		-20	3.85	-13.95	-0.01	-2.5 to 2.5	Pass
		-10	3.85	-15.03	-0.01	-2.5 to 2.5	Pass
		0	3.85	-14.53	-0.01	-2.5 to 2.5	Pass
		10	3.85	-14.68	-0.01	-2.5 to 2.5	Pass
		30	3.85	-14.20	-0.01	-2.5 to 2.5	Pass
		40	3.85	-13.98	-0.01	-2.5 to 2.5	Pass
		50	3.85	-14.17	-0.01	-2.5 to 2.5	Pass
HSUPA	1712.4	20	3.27	14.87	0.01	-2.5 to 2.5	Pass
			3.85	13.53	0.01	-2.5 to 2.5	Pass
			4.43	14.59	0.01	-2.5 to 2.5	Pass
		-30	3.85	21.09	0.01	-2.5 to 2.5	Pass
		-20	3.85	13.09	0.01	-2.5 to 2.5	Pass
		-10	3.85	15.32	0.01	-2.5 to 2.5	Pass
		0	3.85	20.79	0.01	-2.5 to 2.5	Pass
		10	3.85	13.55	0.01	-2.5 to 2.5	Pass
		30	3.85	14.68	0.01	-2.5 to 2.5	Pass
		40	3.85	21.24	0.01	-2.5 to 2.5	Pass
		50	3.85	13.24	0.01	-2.5 to 2.5	Pass
	1732.6	20	3.27	12.73	0.01	-2.5 to 2.5	Pass
			3.85	12.29	0.01	-2.5 to 2.5	Pass
			4.43	13.53	0.01	-2.5 to 2.5	Pass
		-30	3.85	18.37	0.01	-2.5 to 2.5	Pass
		-20	3.85	12.78	0.01	-2.5 to 2.5	Pass
		-10	3.85	14.55	0.01	-2.5 to 2.5	Pass
		0	3.85	20.02	0.01	-2.5 to 2.5	Pass
		10	3.85	12.69	0.01	-2.5 to 2.5	Pass
		30	3.85	13.68	0.01	-2.5 to 2.5	Pass



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	1752.6	40	3.85	19.17	0.01	-2.5 to 2.5	Pass
		50	3.85	12.65	0.01	-2.5 to 2.5	Pass
		20	3.27	21.64	0.01	-2.5 to 2.5	Pass
			3.85	16.46	0.01	-2.5 to 2.5	Pass
			4.43	15.57	0.01	-2.5 to 2.5	Pass
		-30	3.85	21.67	0.01	-2.5 to 2.5	Pass
		-20	3.85	16.95	0.01	-2.5 to 2.5	Pass
		-10	3.85	16.24	0.01	-2.5 to 2.5	Pass
		0	3.85	16.38	0.01	-2.5 to 2.5	Pass
		10	3.85	21.96	0.01	-2.5 to 2.5	Pass
		30	3.85	16.07	0.01	-2.5 to 2.5	Pass
		40	3.85	15.83	0.01	-2.5 to 2.5	Pass
		50	3.85	22.07	0.01	-2.5 to 2.5	Pass



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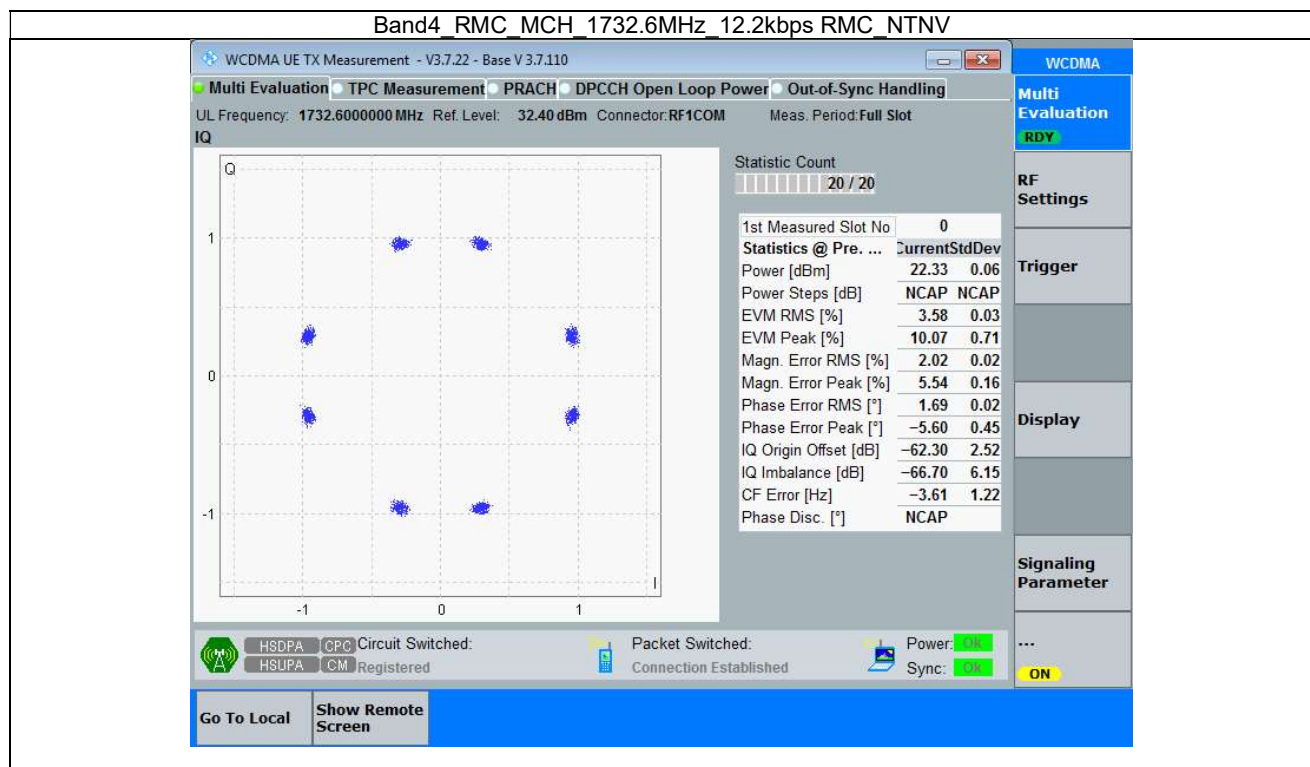
3. Modulation Characteristics

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

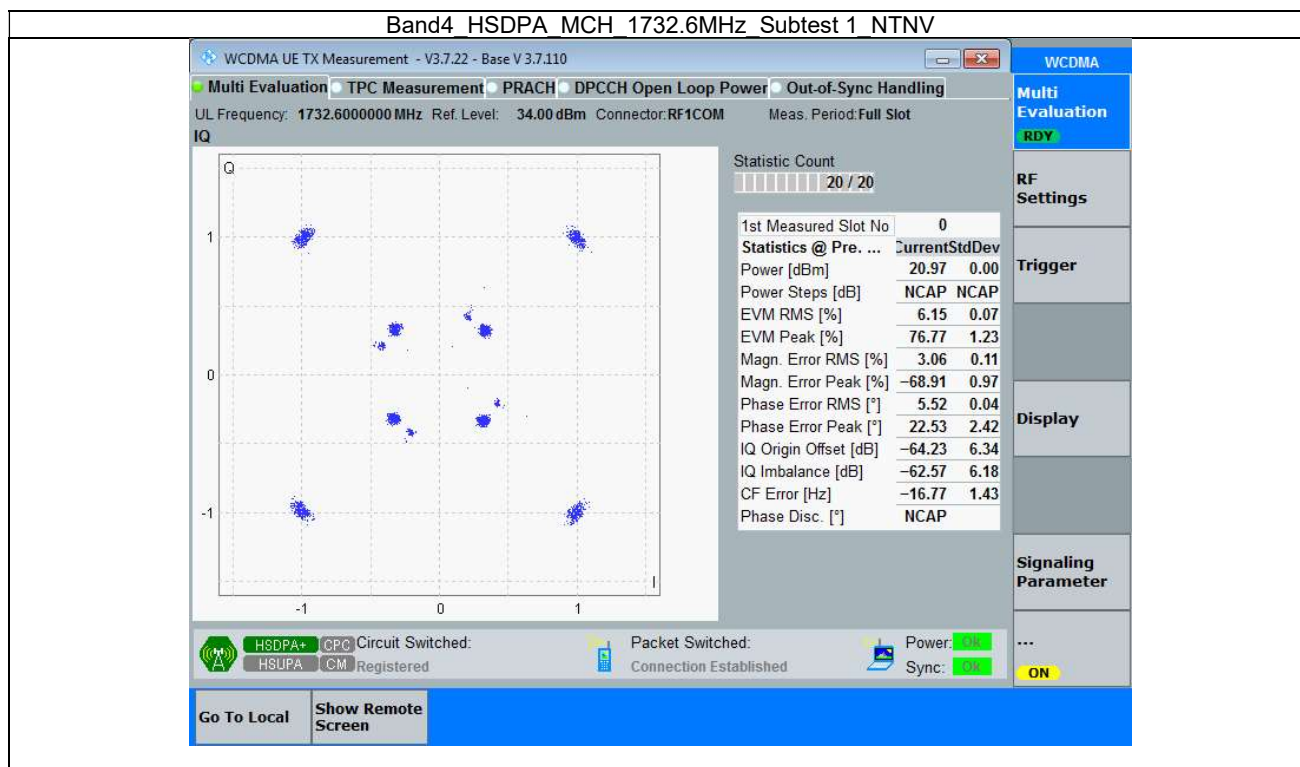


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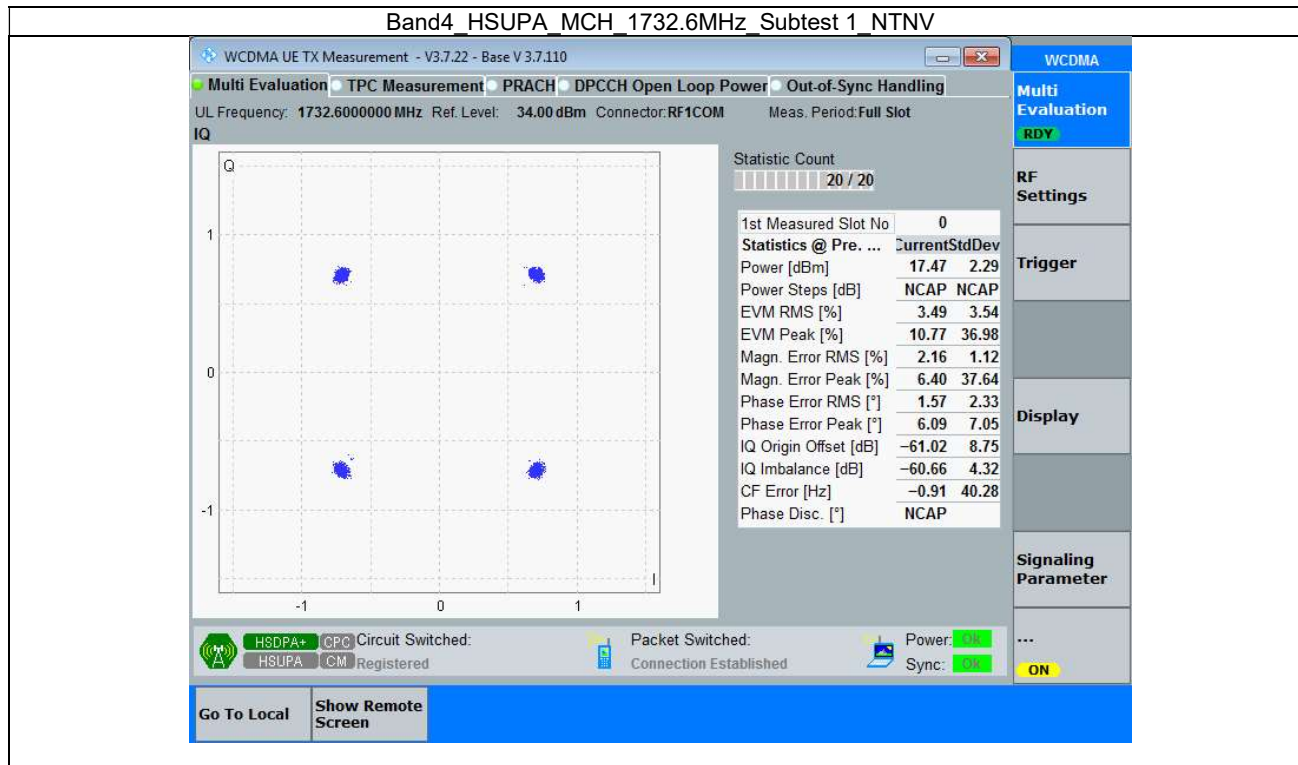
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Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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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	
NTNV	RMC	12.2kbps RMC	1712.4	4.141	Pass
			1732.6	4.136	Pass
			1752.6	4.143	Pass
	HSDPA	Subtest 1	1712.4	4.161	Pass
			1732.6	4.138	Pass
			1752.6	4.158	Pass
	HSUPA	Subtest 1	1712.4	4.142	Pass
			1732.6	4.134	Pass
			1752.6	4.126	Pass



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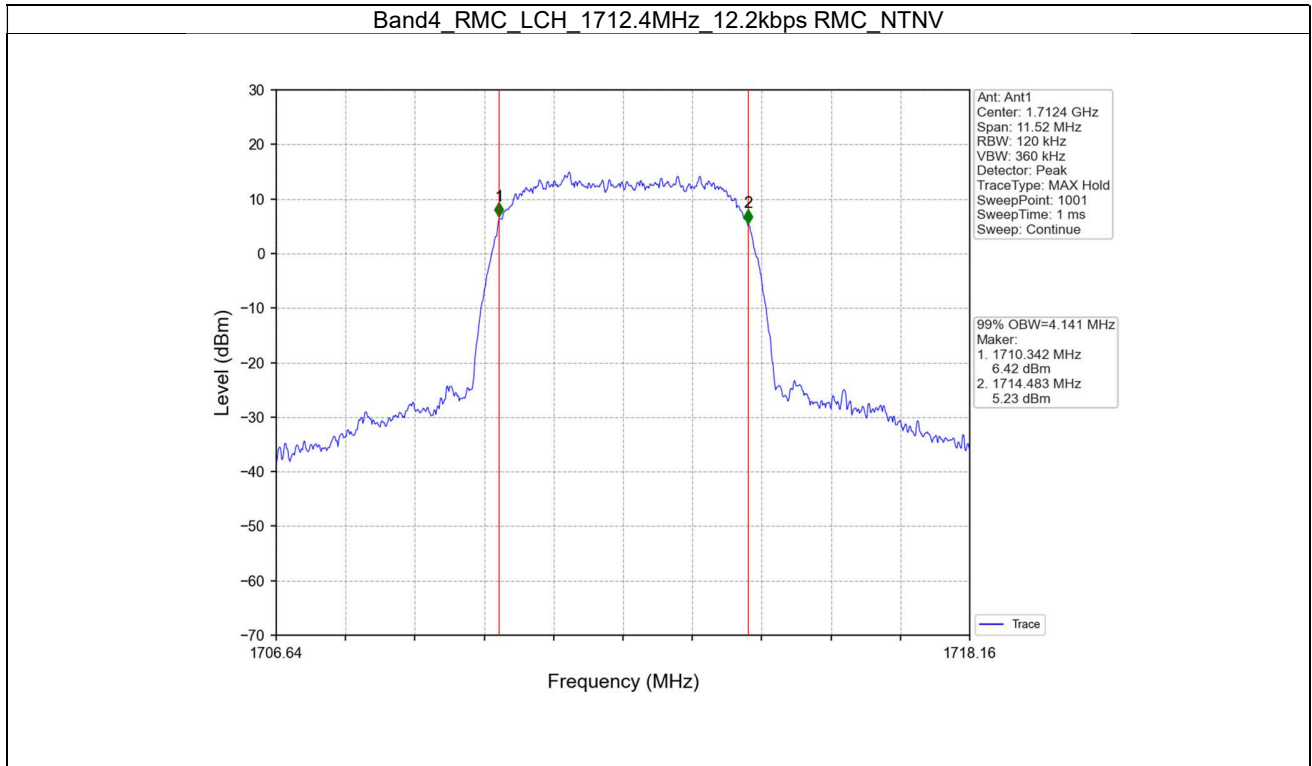
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4.1.2 Test Graph



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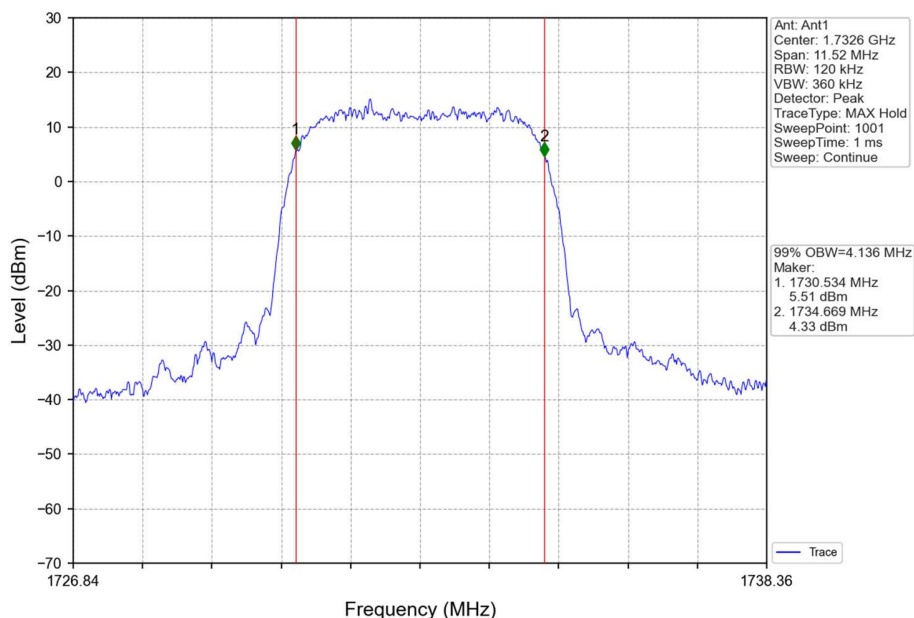
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Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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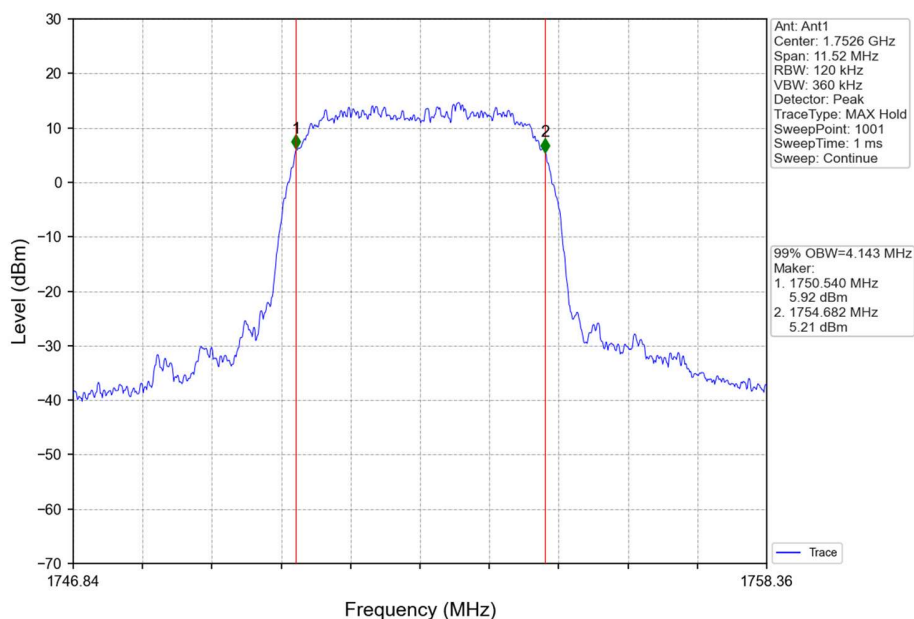
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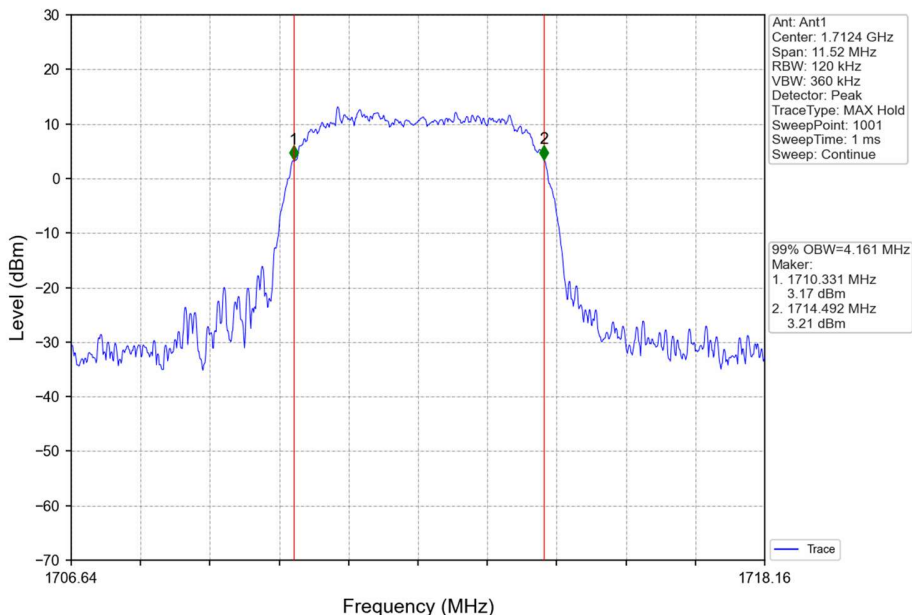
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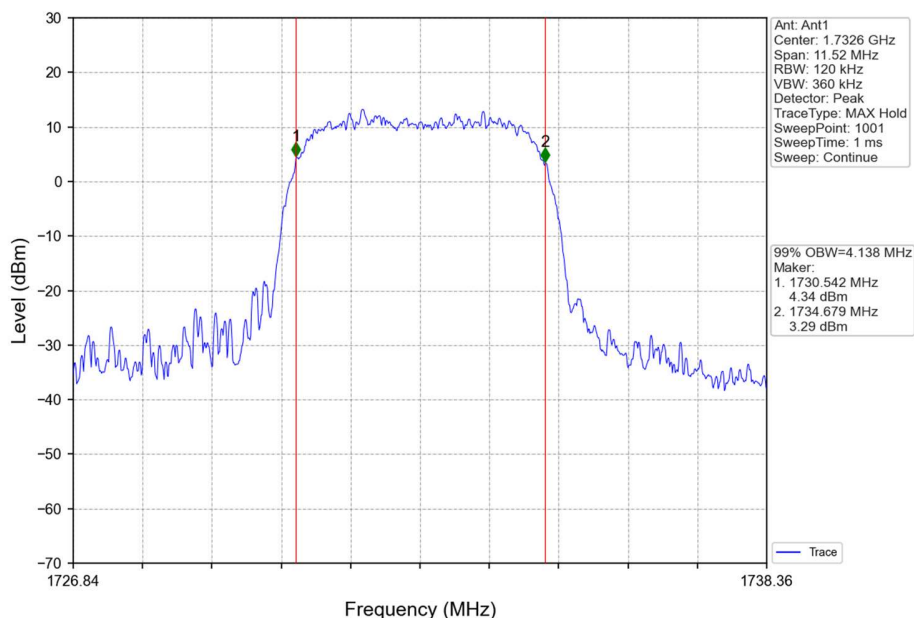
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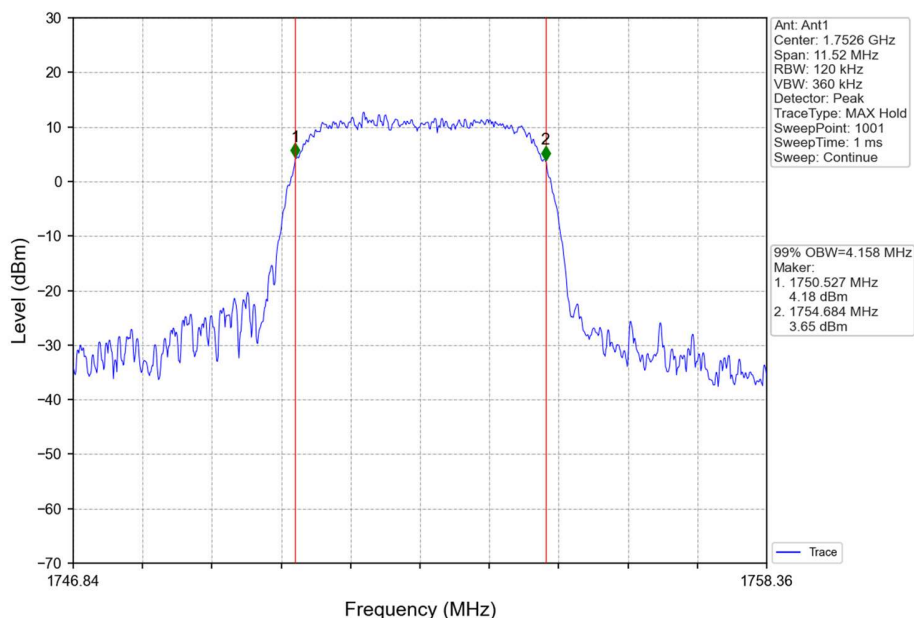
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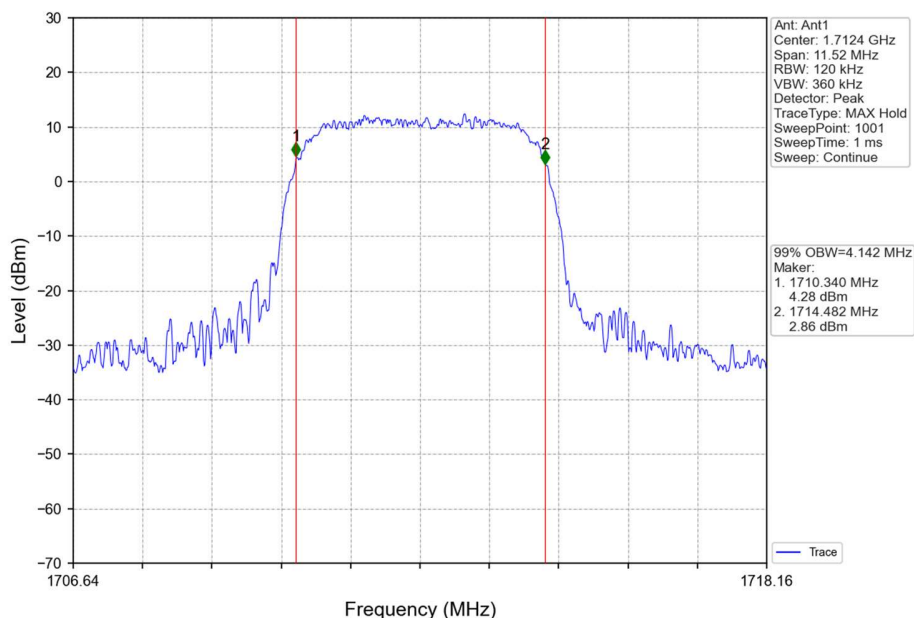
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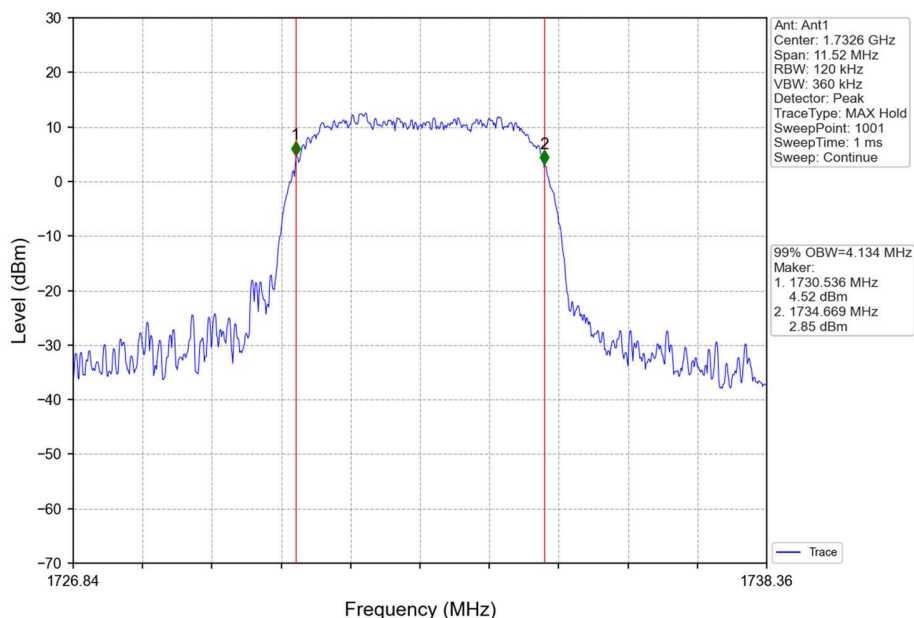
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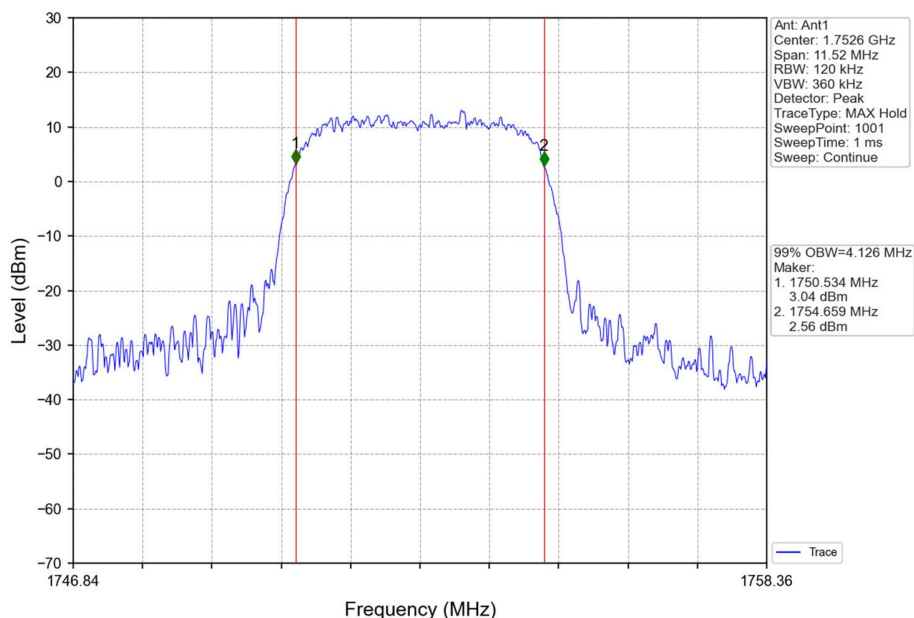
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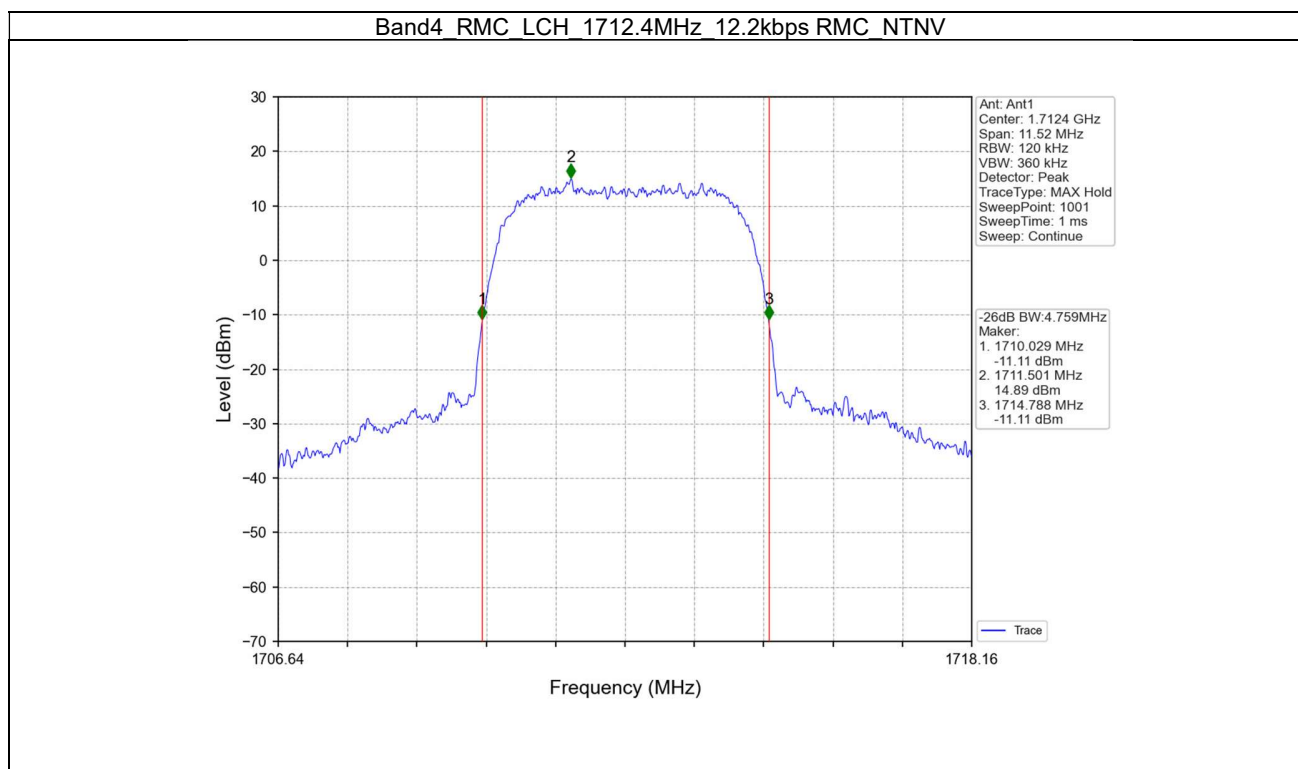


4.2 Band4_XDB

4.2.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.759	Pass
			1732.6	4.719	Pass
			1752.6	4.731	Pass
	HSDPA	Subtest 1	1712.4	4.772	Pass
			1732.6	4.717	Pass
			1752.6	4.765	Pass
	HSUPA	Subtest 1	1712.4	4.738	Pass
			1732.6	4.748	Pass
			1752.6	4.734	Pass

4.2.2 Test Graph



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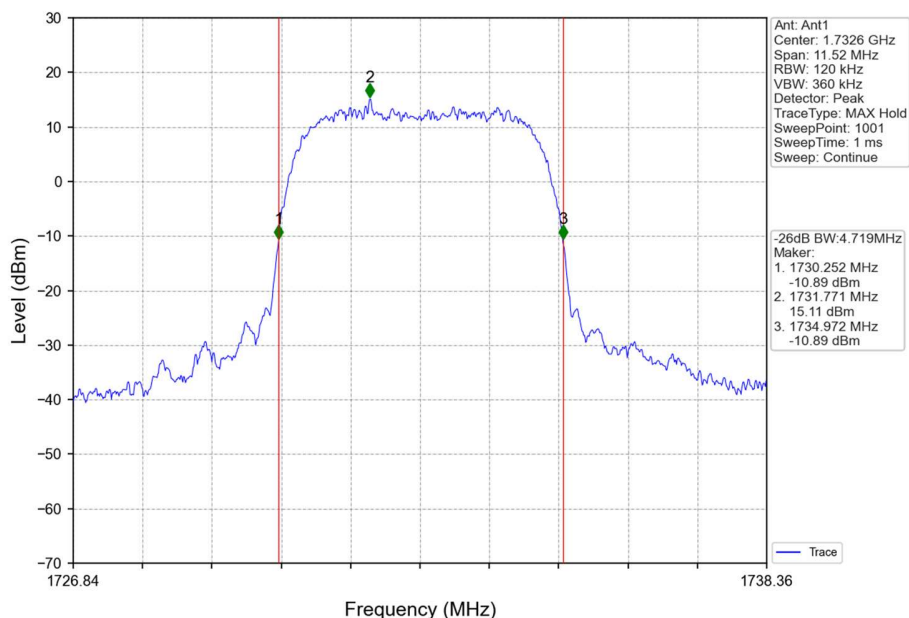
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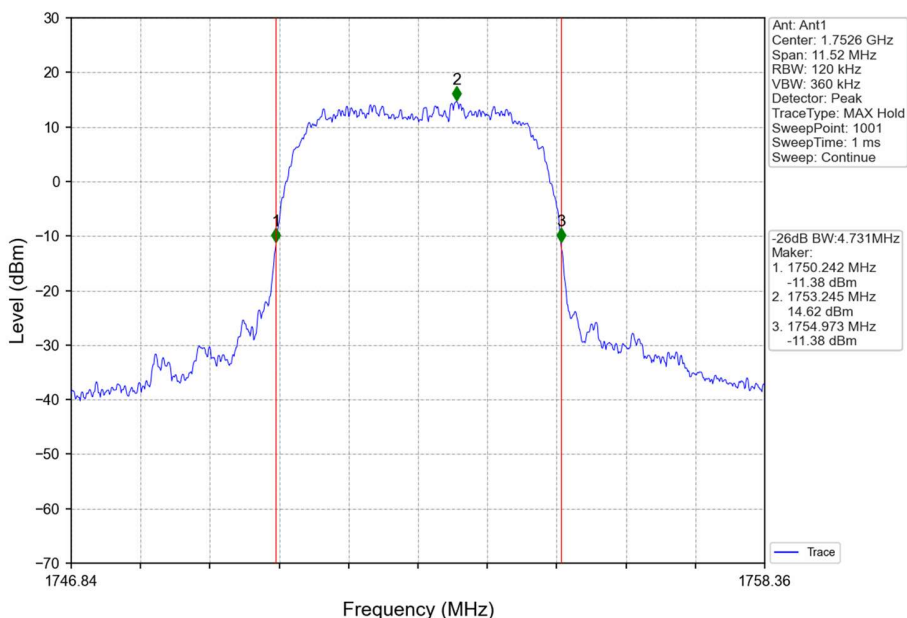
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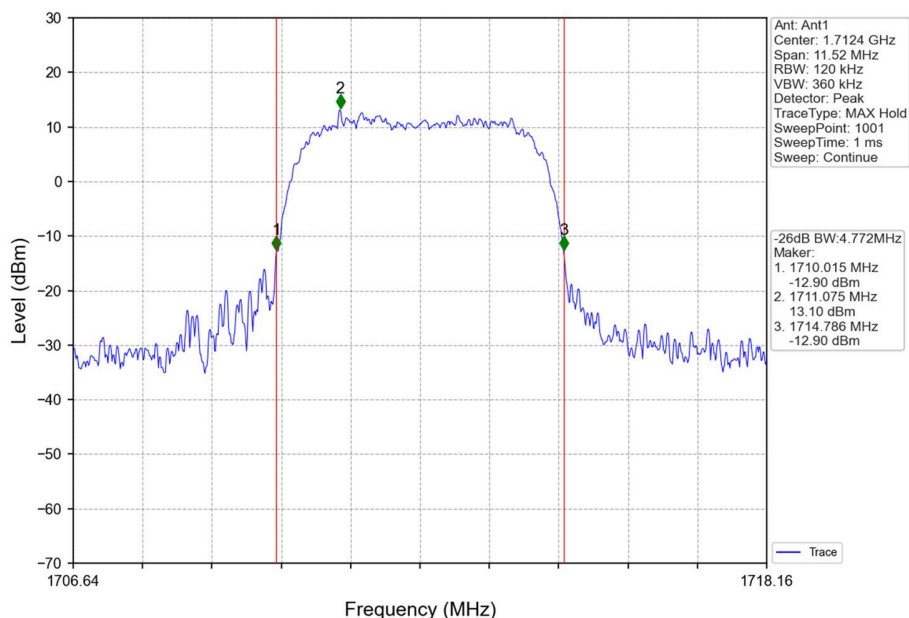
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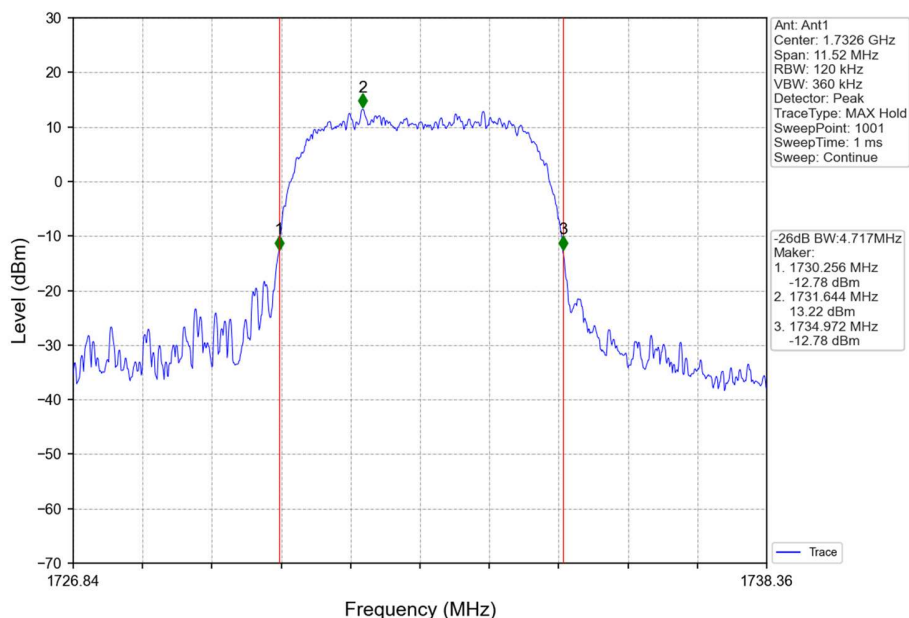
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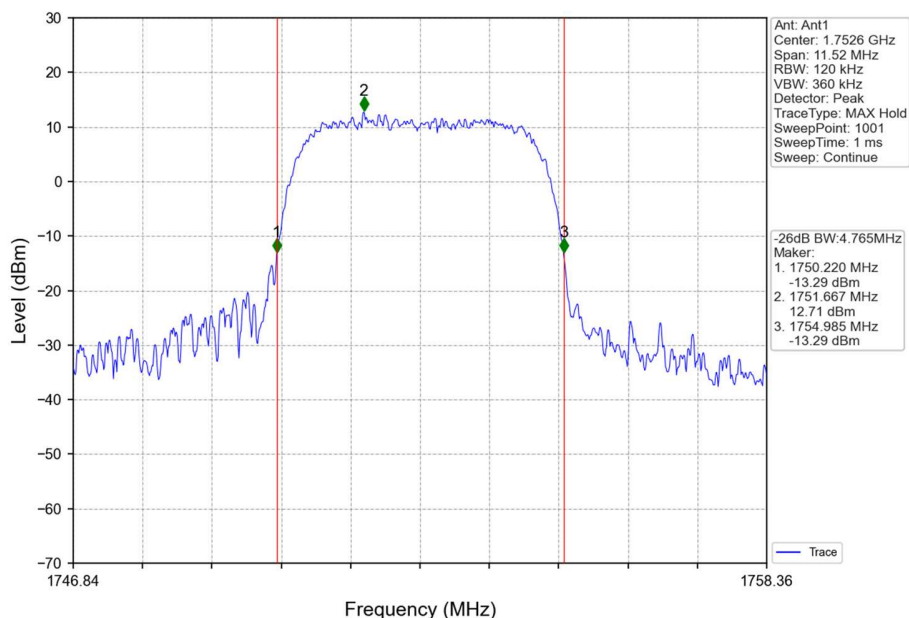
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Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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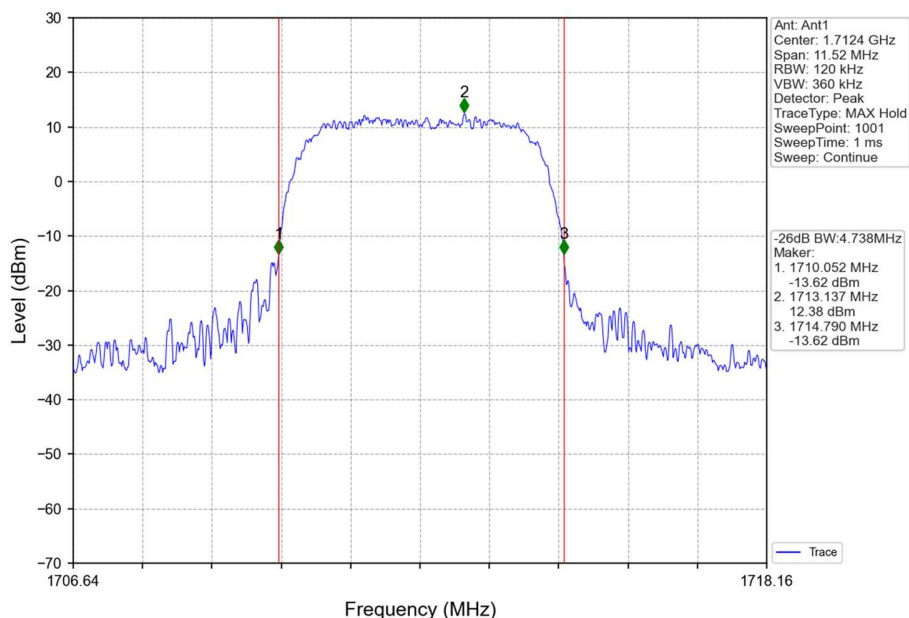
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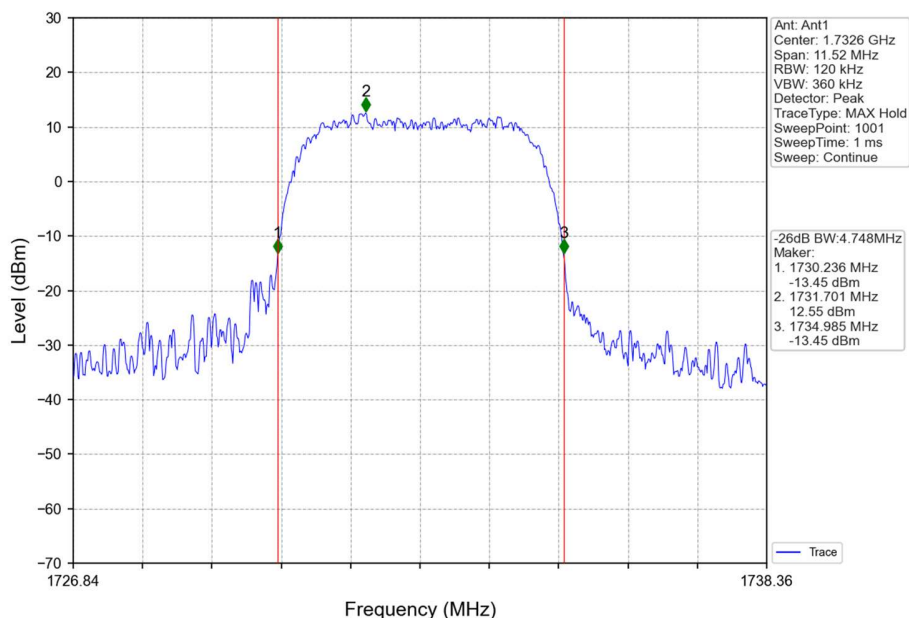
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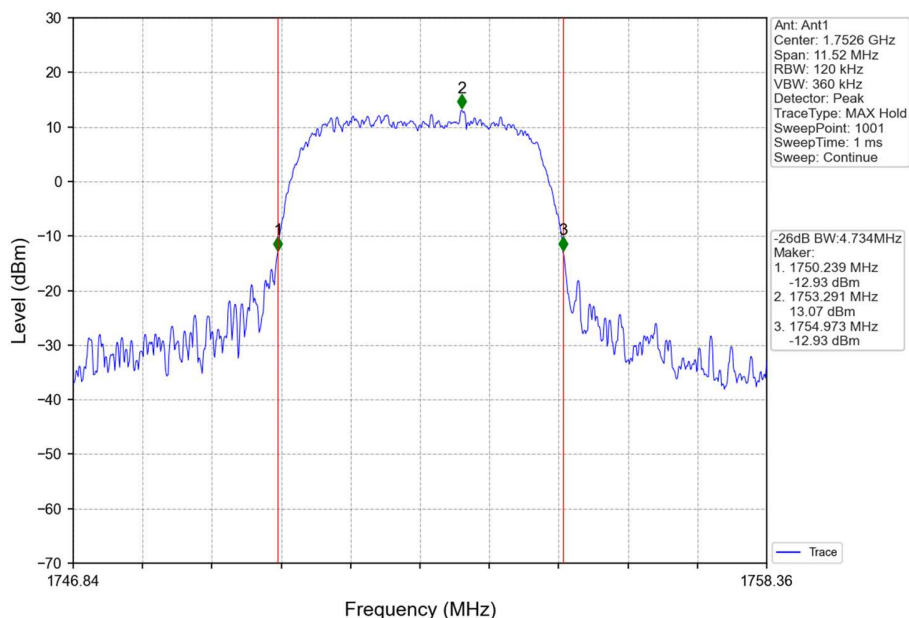
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5. Peak-Average Ratio

5.1 Band4

5.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.76	<=13	Pass
			1732.6	2.92	<=13	Pass
			1752.6	2.89	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.75	<=13	Pass
			1732.6	5.78	<=13	Pass
			1752.6	5.79	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.80	<=13	Pass
			1732.6	5.79	<=13	Pass
			1752.6	5.78	<=13	Pass



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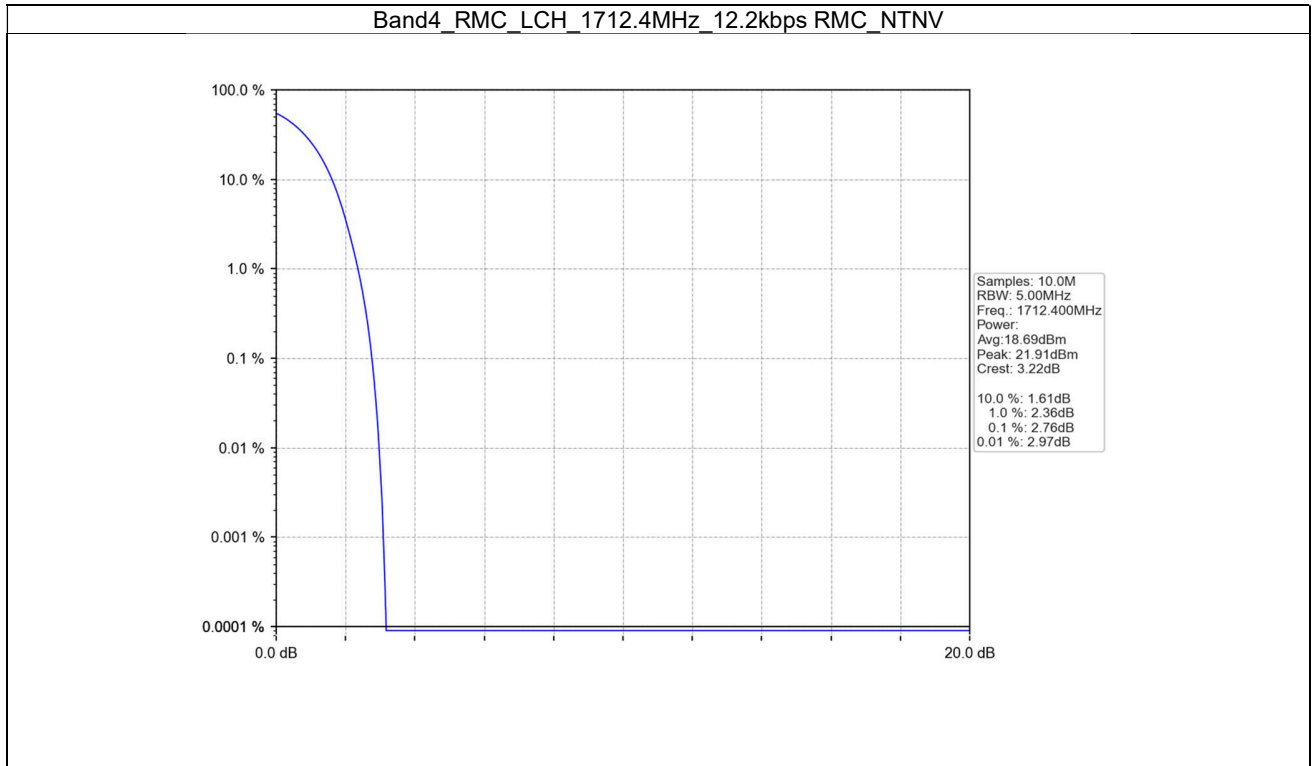
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5.1.2 Test Graph



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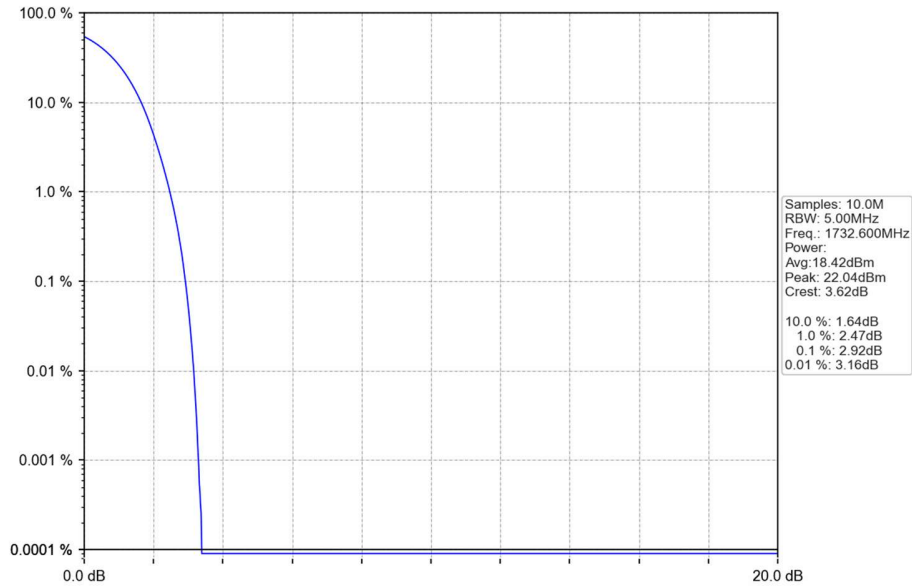
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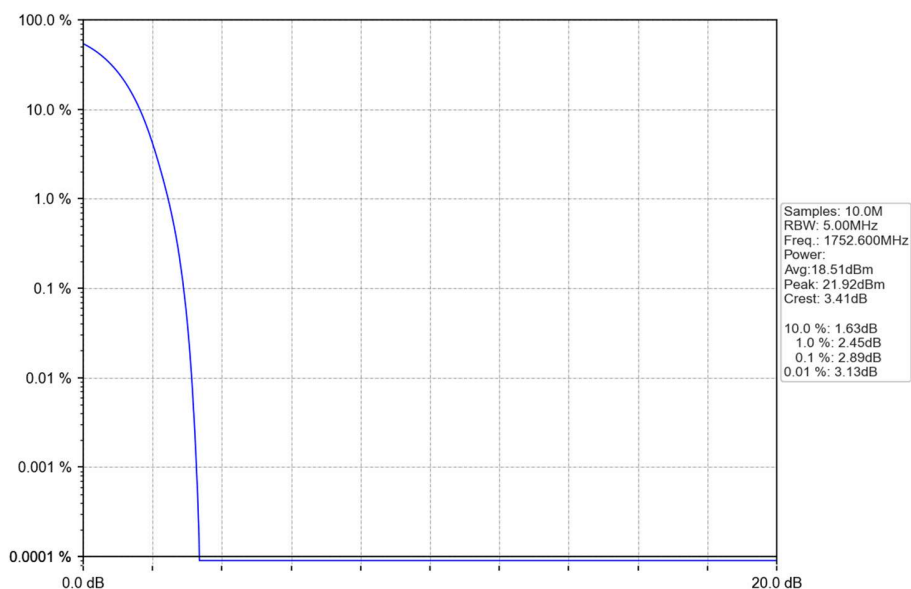
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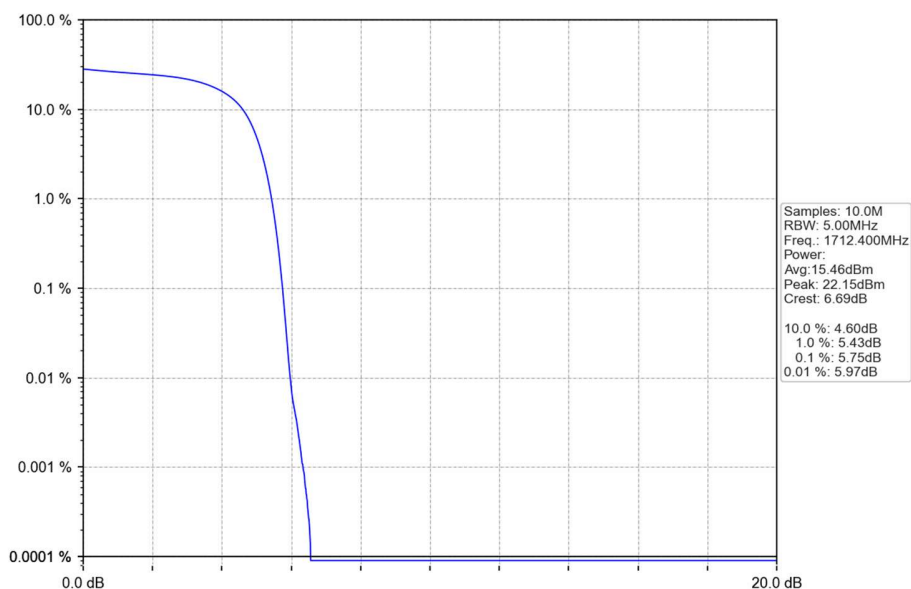
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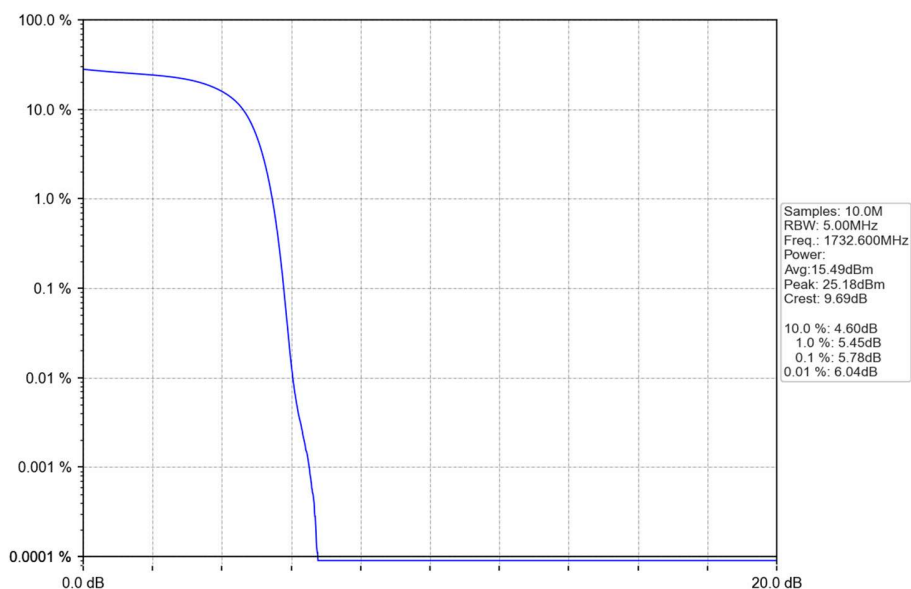
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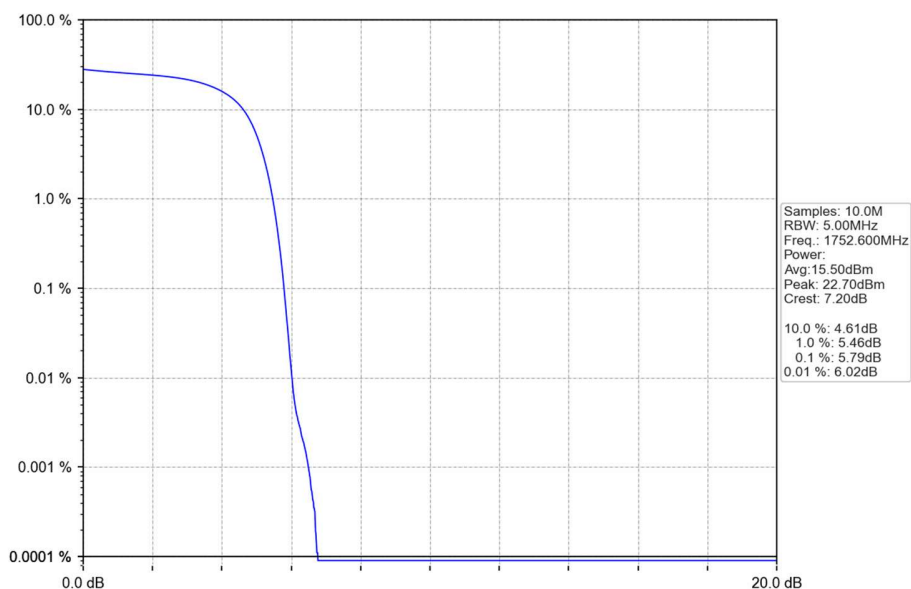
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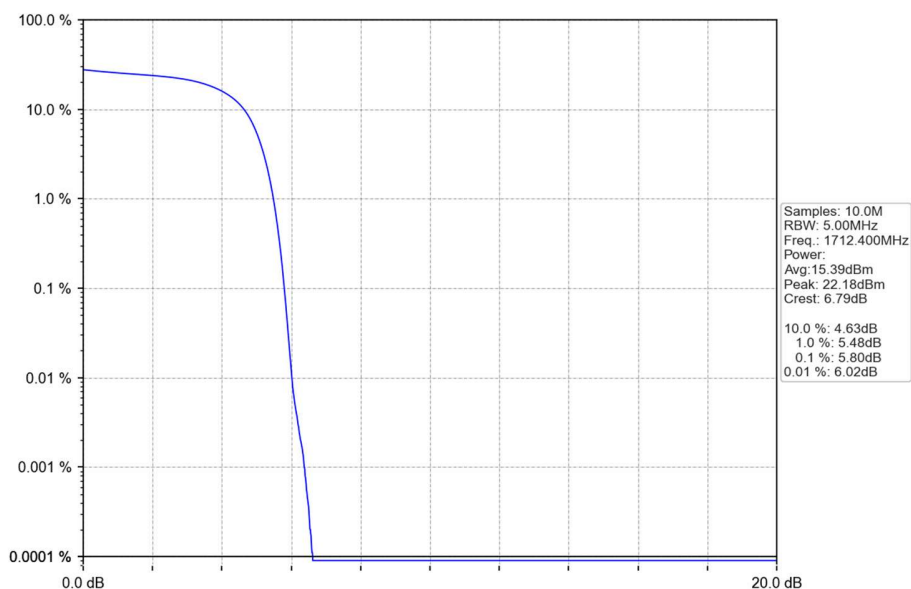
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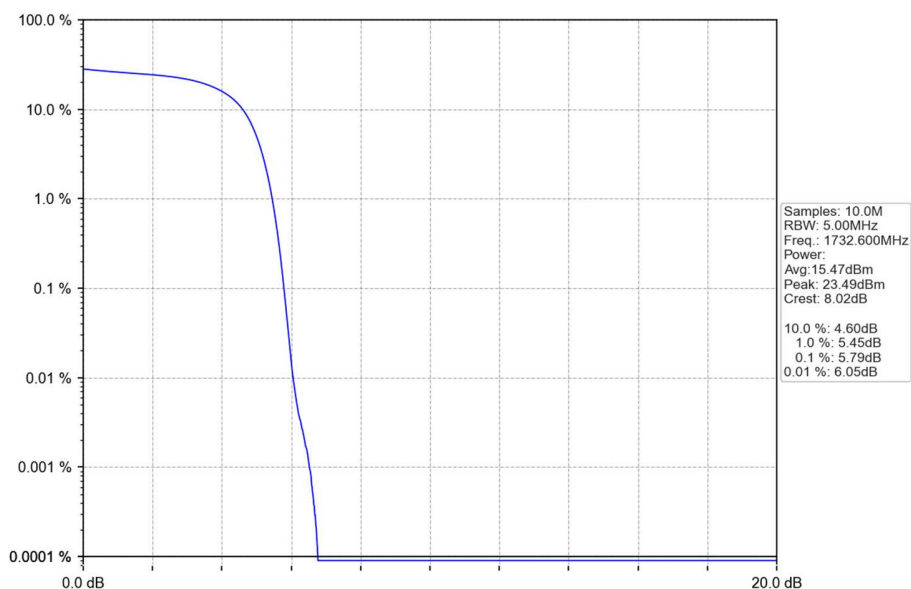
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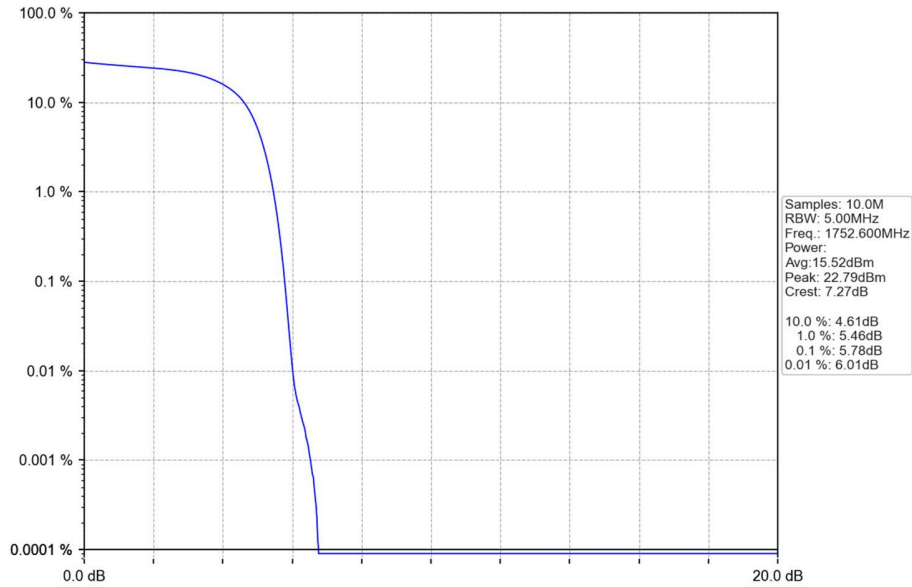
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6. Spurious Emission

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	

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

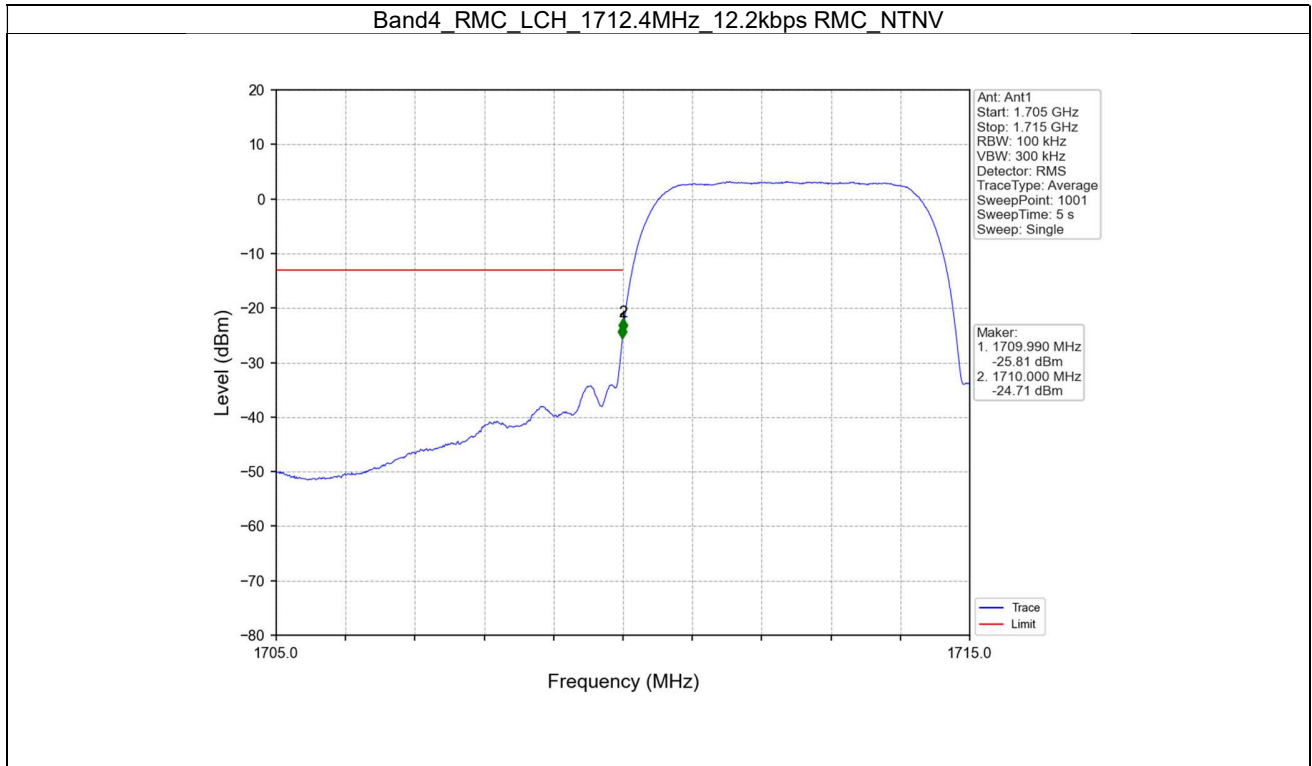


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6.1.2 Test Graph



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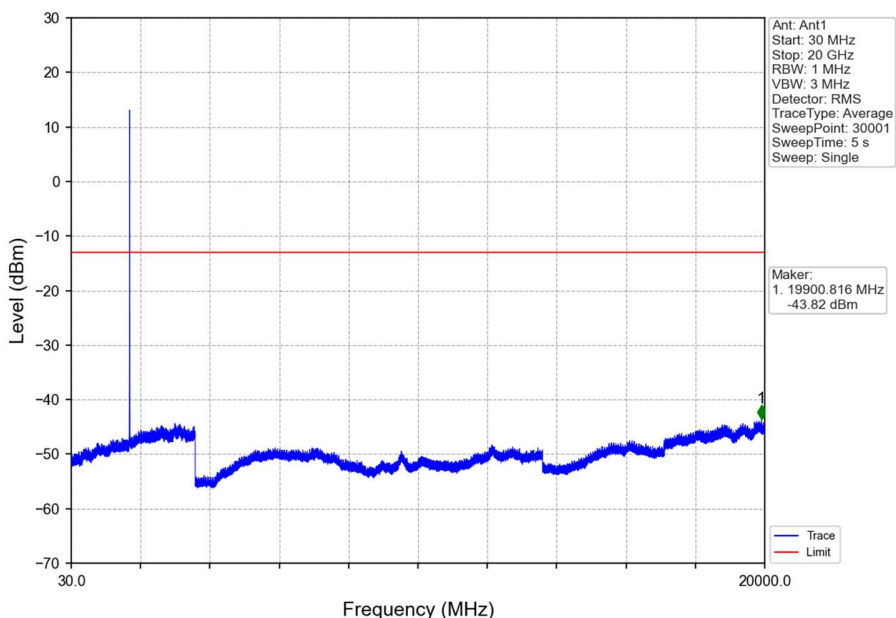
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Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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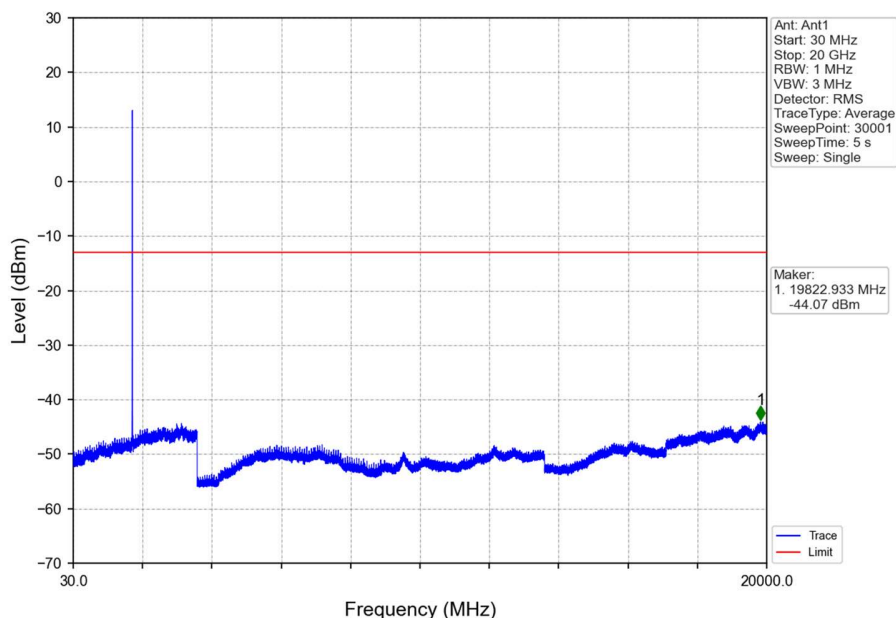
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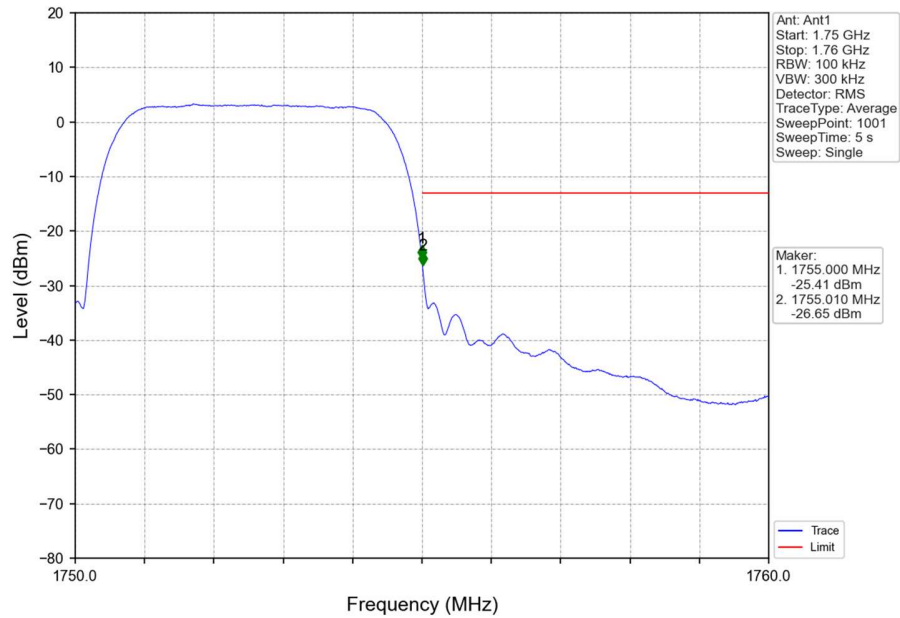
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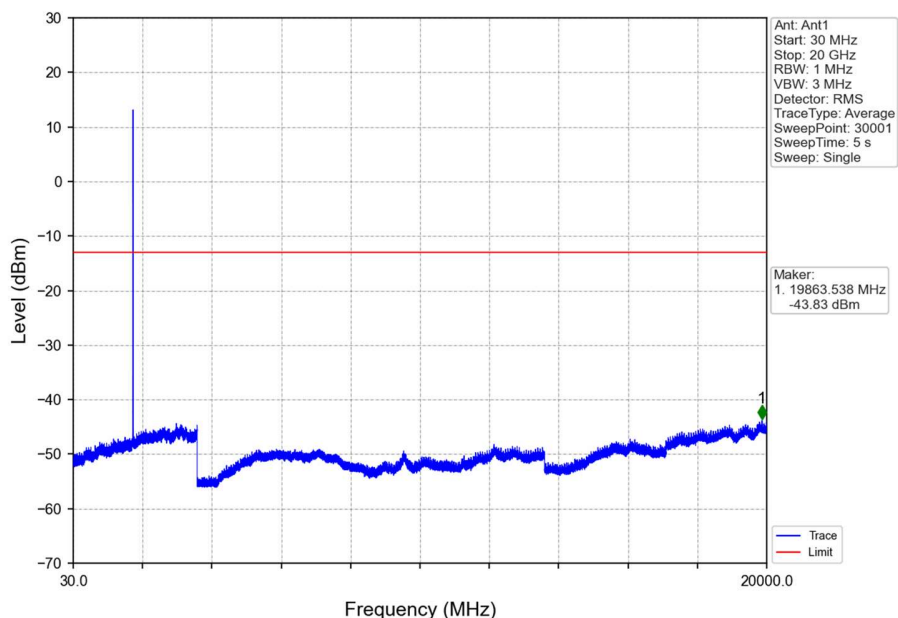
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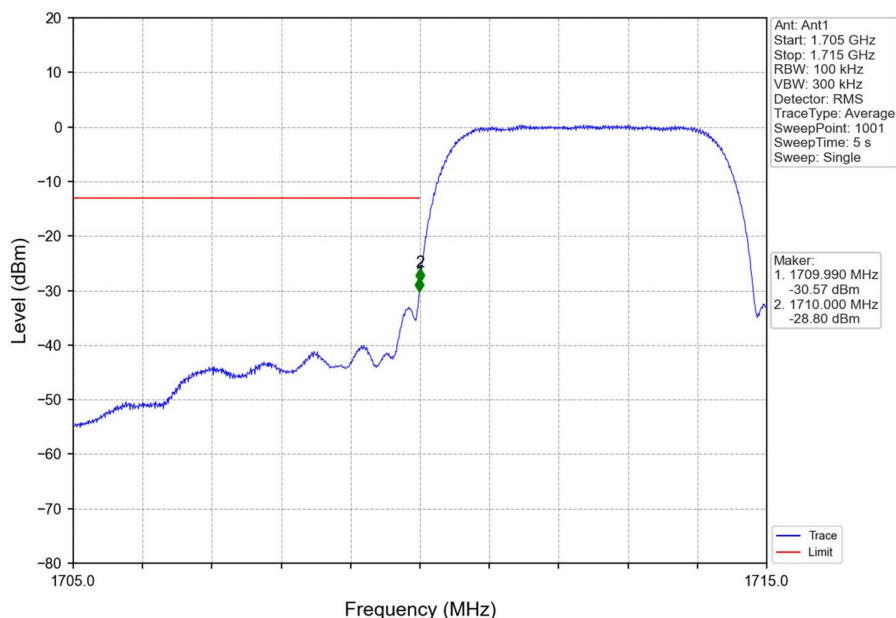
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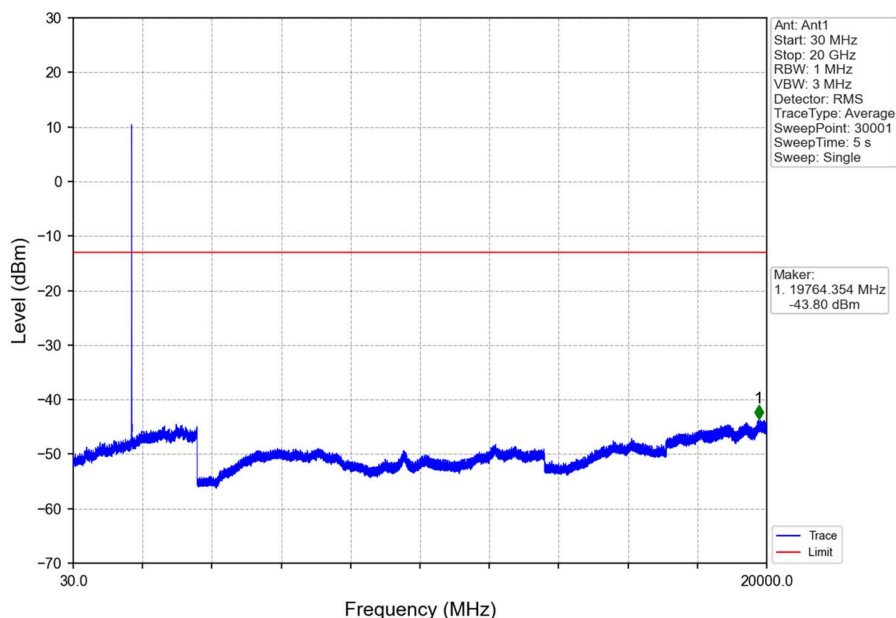
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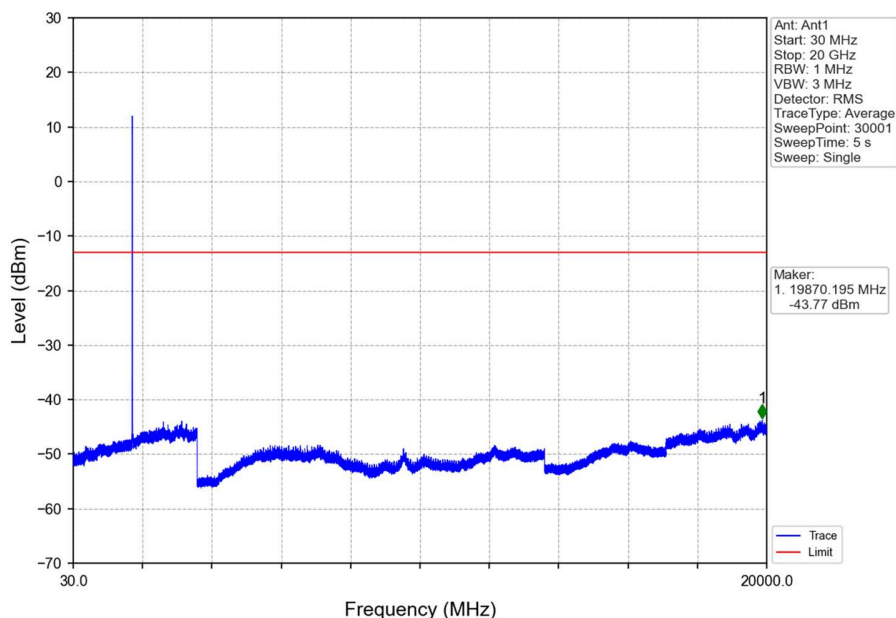
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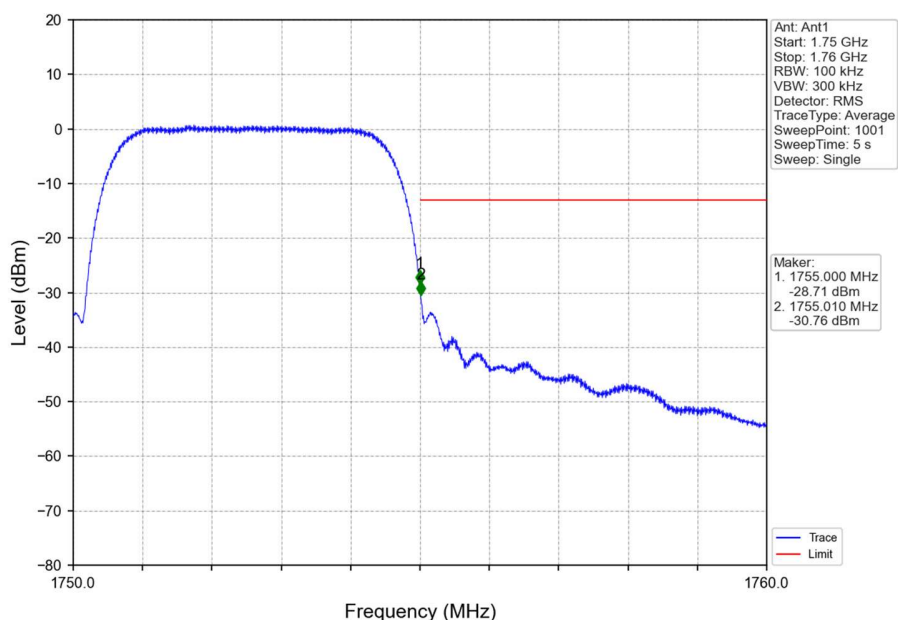
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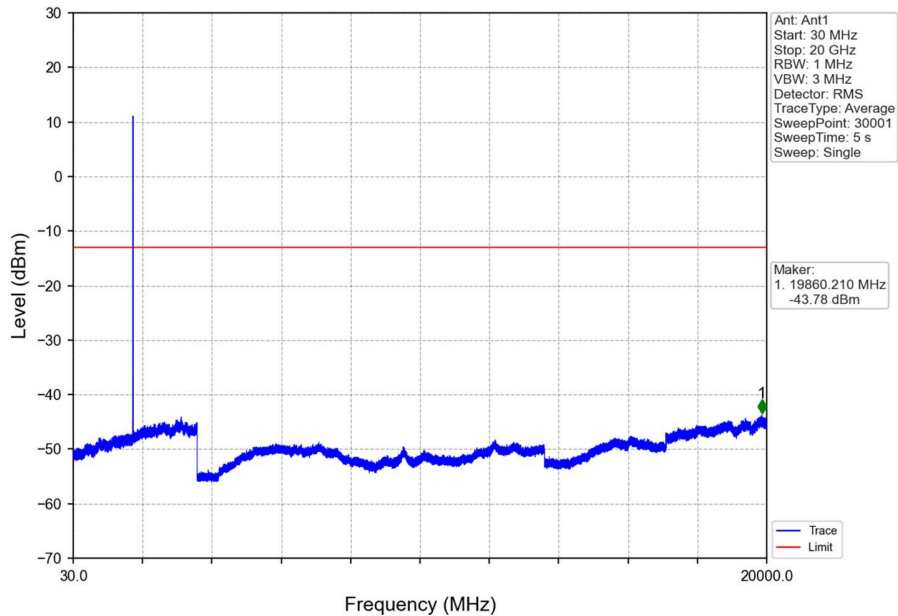
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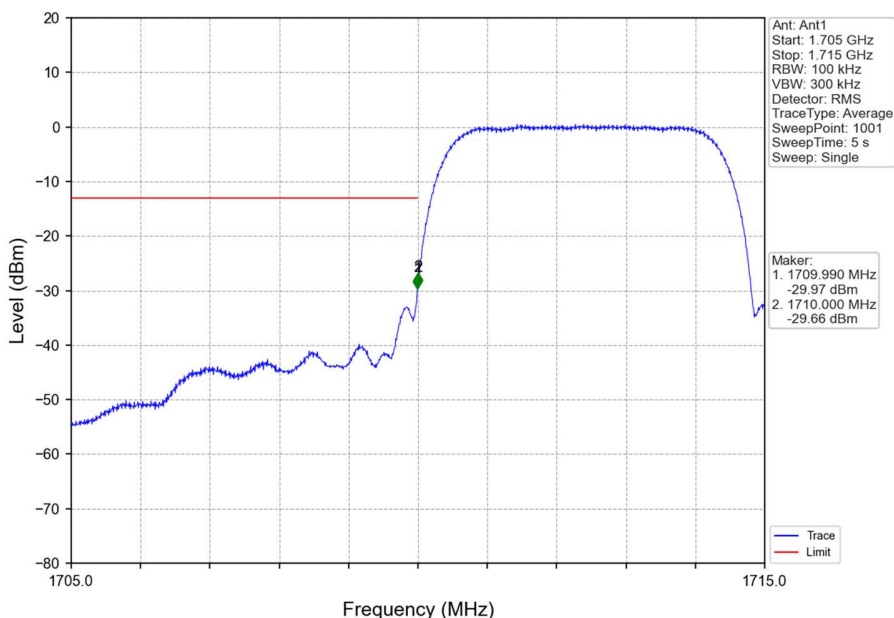
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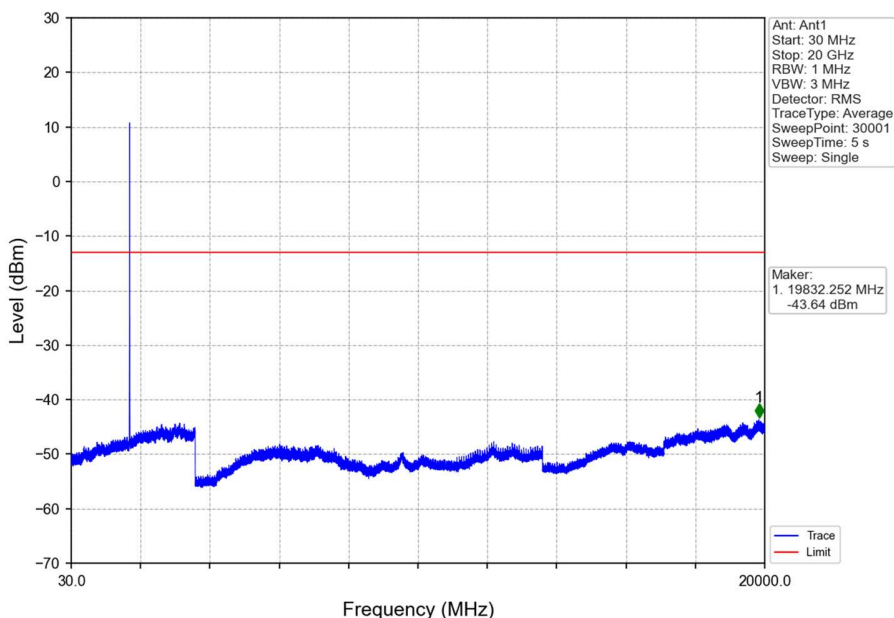
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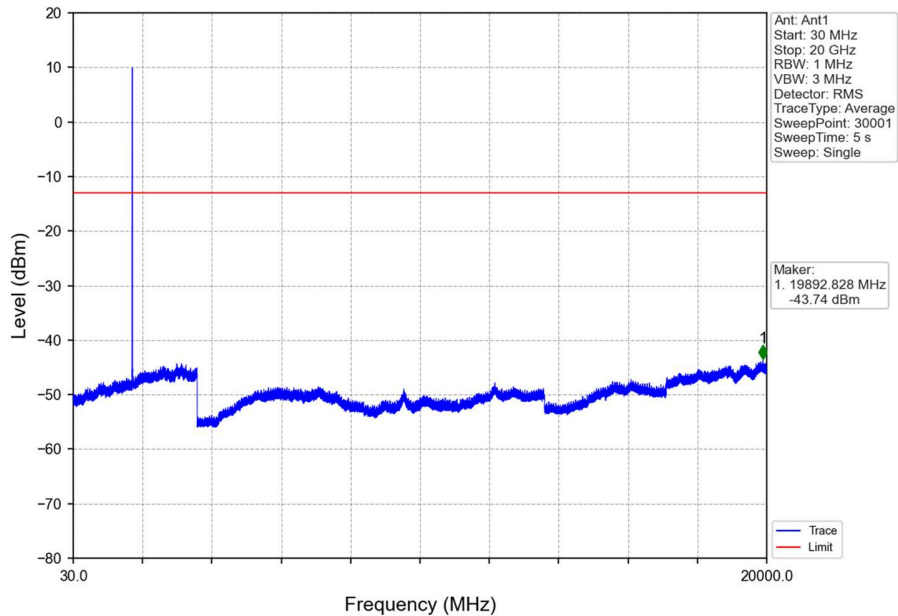
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Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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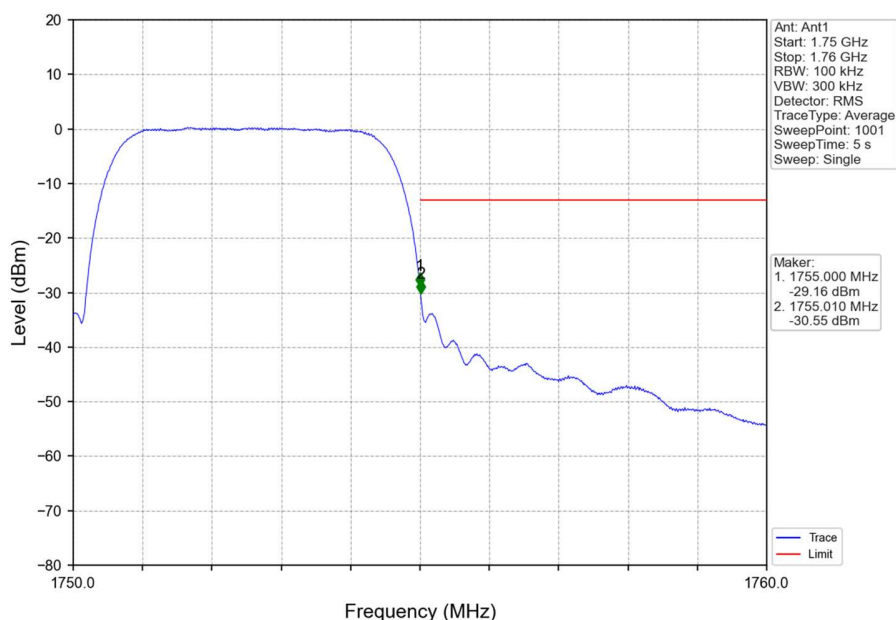
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Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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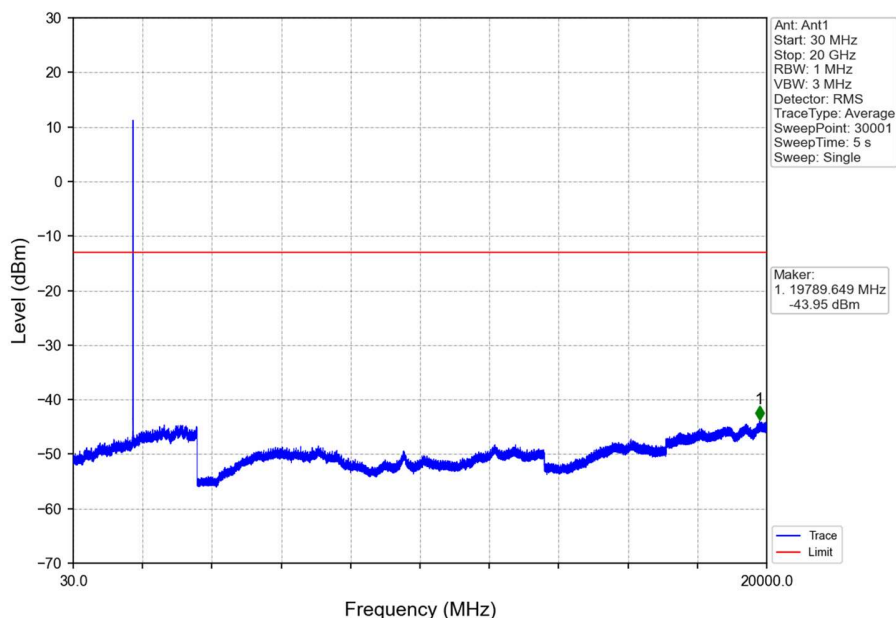
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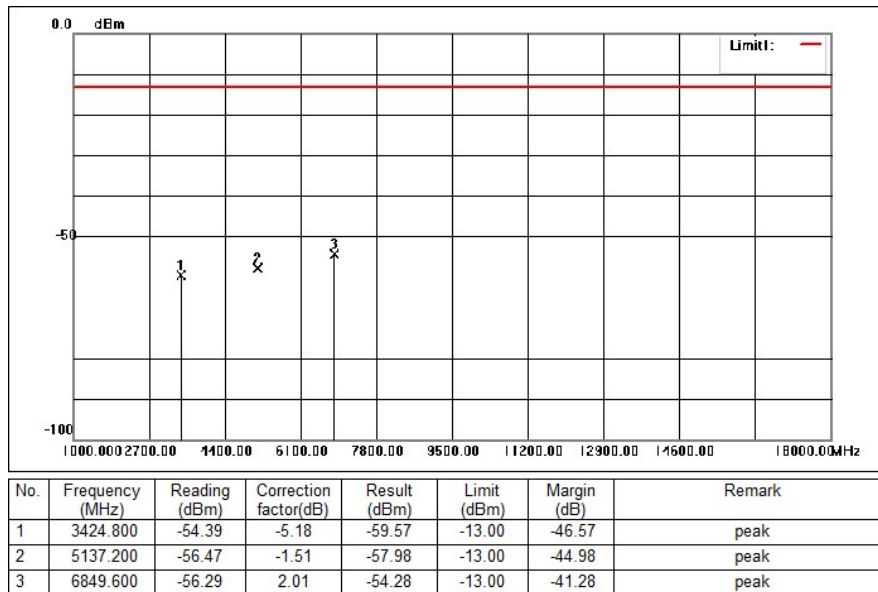


7. Field Strength of Spurious Radiation

Up Antenna

WCDMA Band IV-Low channel

Polarization: H



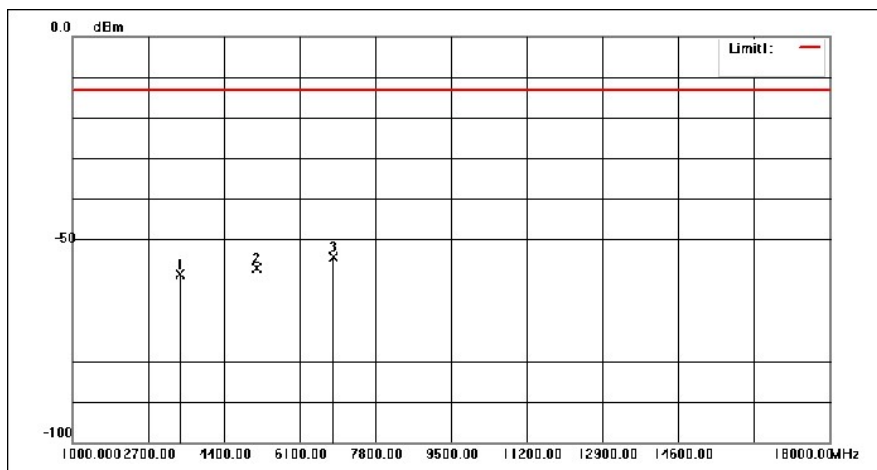
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3424.800	-53.45	-5.18	-58.63	-13.00	-45.63	peak
2	5137.200	-55.70	-1.51	-57.21	-13.00	-44.21	peak
3	6849.600	-56.46	2.01	-54.45	-13.00	-41.45	peak



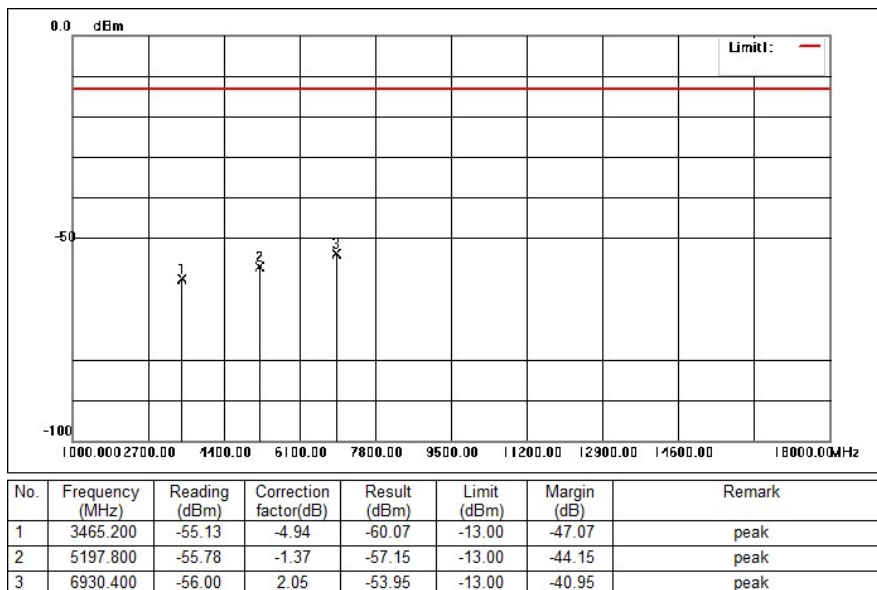
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WCDMA Band IV-Middle channel

Polarization: H



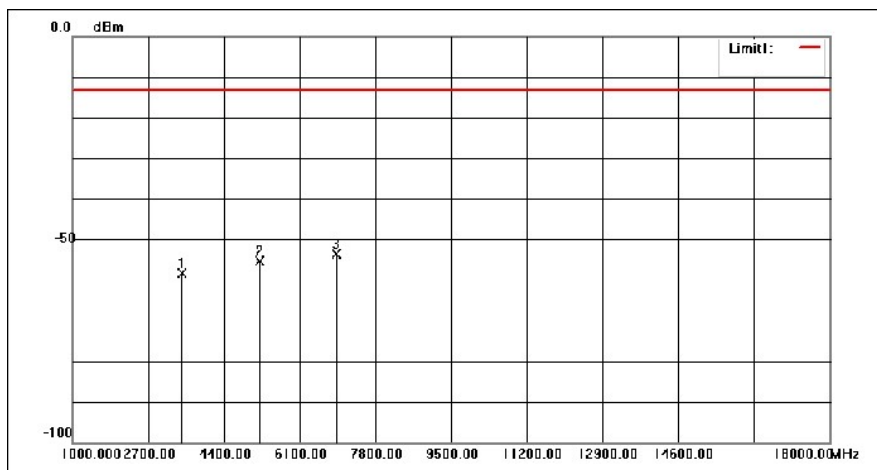
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.200	-53.54	-4.94	-58.48	-13.00	-45.48	peak
2	5197.800	-54.08	-1.37	-55.45	-13.00	-42.45	peak
3	6930.400	-55.57	2.05	-53.52	-13.00	-40.52	peak



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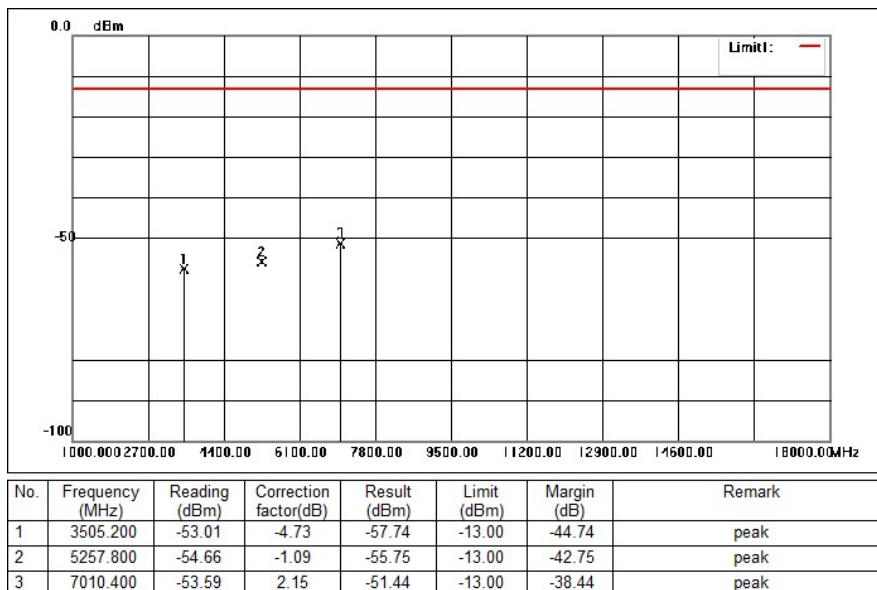
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WCDMA Band IV-High channel

Polarization: H



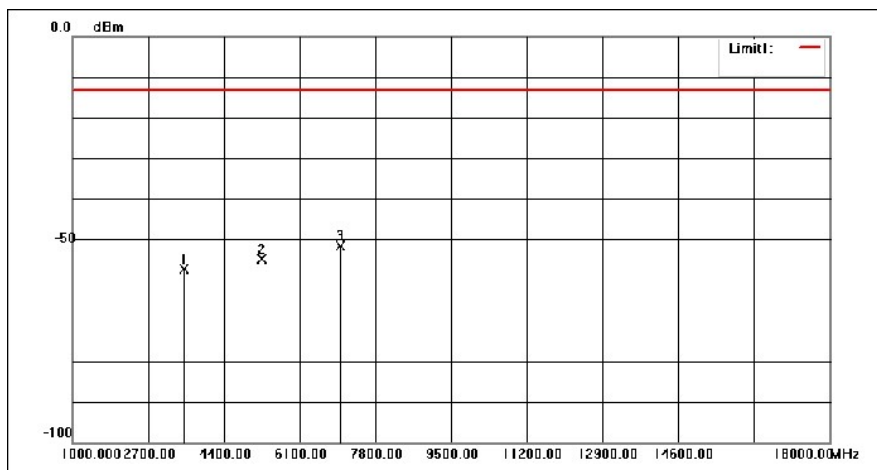
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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3505.200	-52.52	-4.73	-57.25	-13.00	-44.25	peak
2	5257.800	-53.67	-1.09	-54.76	-13.00	-41.76	peak
3	7010.400	-53.65	2.15	-51.50	-13.00	-38.50	peak



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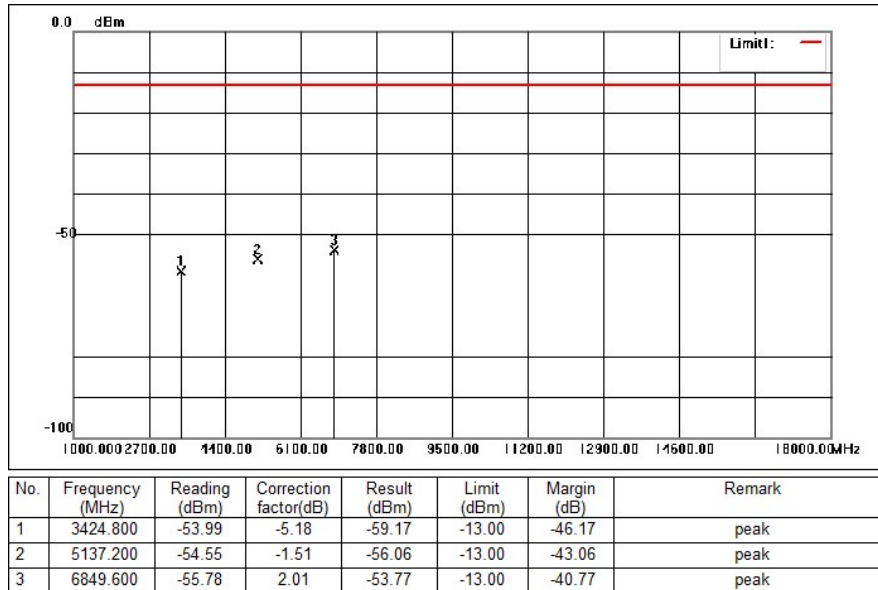
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Down Antenna

WCDMA Band IV-Low channel

Polarization: H



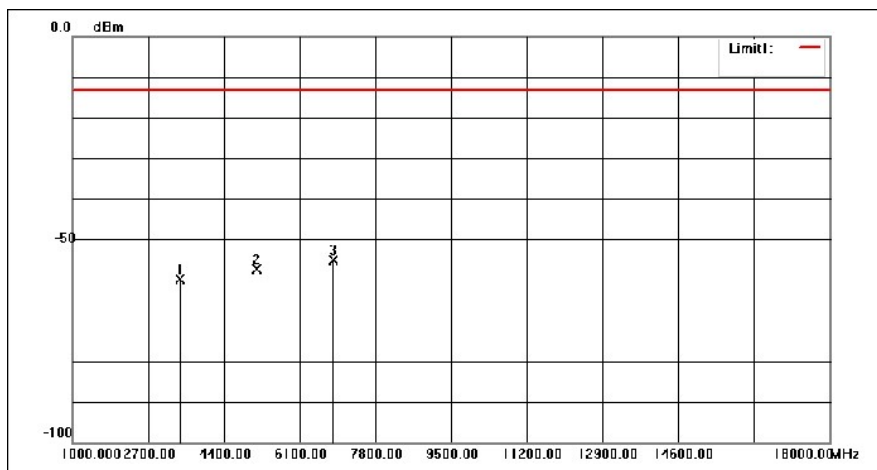
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Polarization: V



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1	3424.800	-54.66	-5.18	-59.84	-13.00	-46.84	peak
2	5137.200	-55.76	-1.51	-57.27	-13.00	-44.27	peak
3	6849.600	-57.18	2.01	-55.17	-13.00	-42.17	peak



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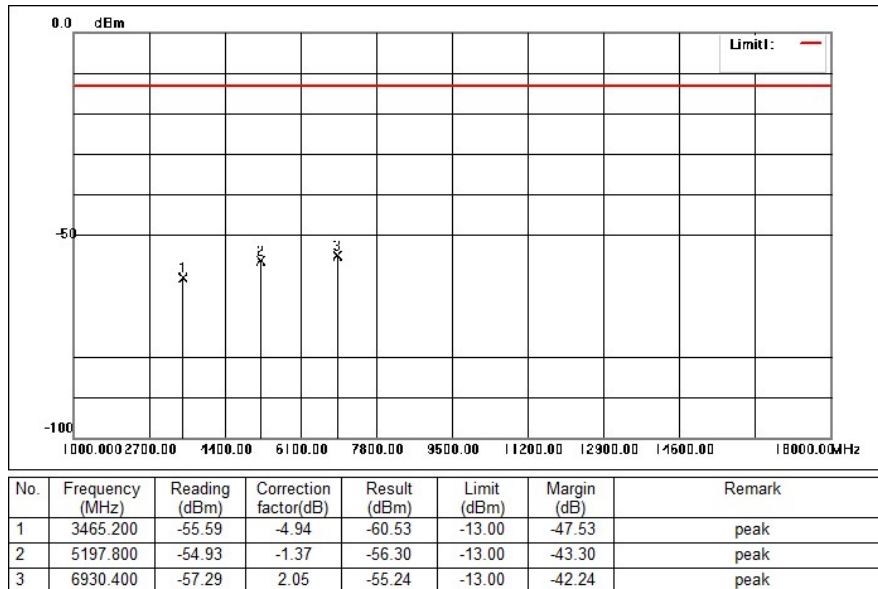
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WCDMA Band IV-Middle channel

Polarization: H



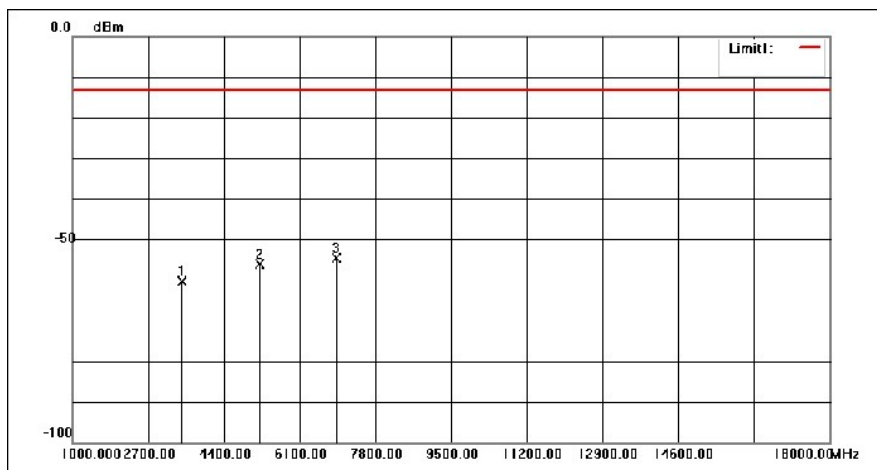
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1	3465.200	-55.42	-4.94	-60.36	-13.00	-47.36	peak
2	5197.800	-54.70	-1.37	-56.07	-13.00	-43.07	peak
3	6930.400	-56.56	2.05	-54.51	-13.00	-41.51	peak



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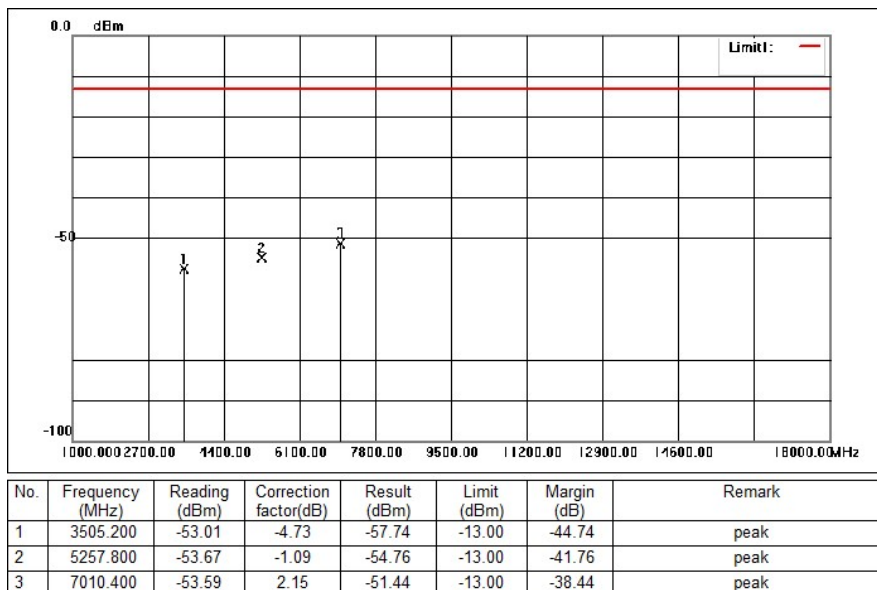
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Polarization: H



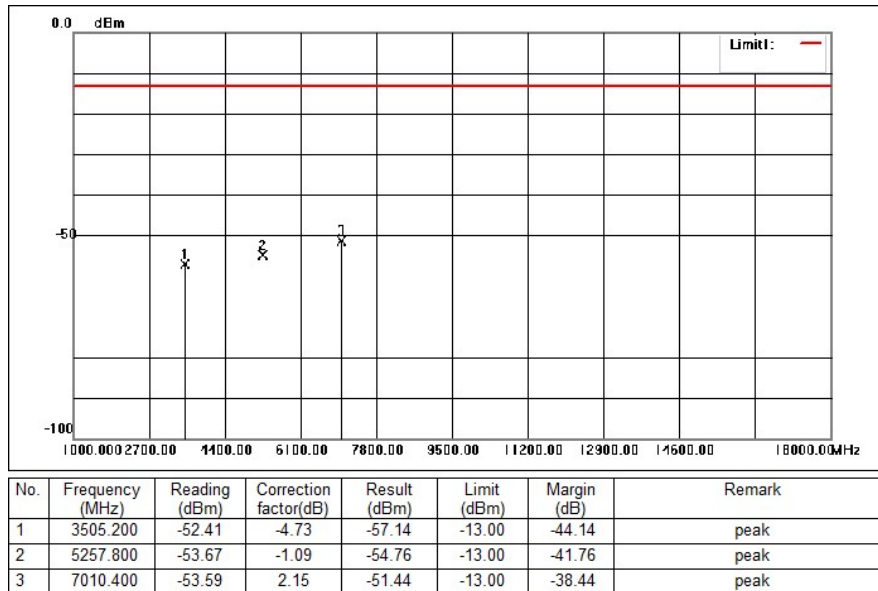
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Polarization: V



Remark1:According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark2:The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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