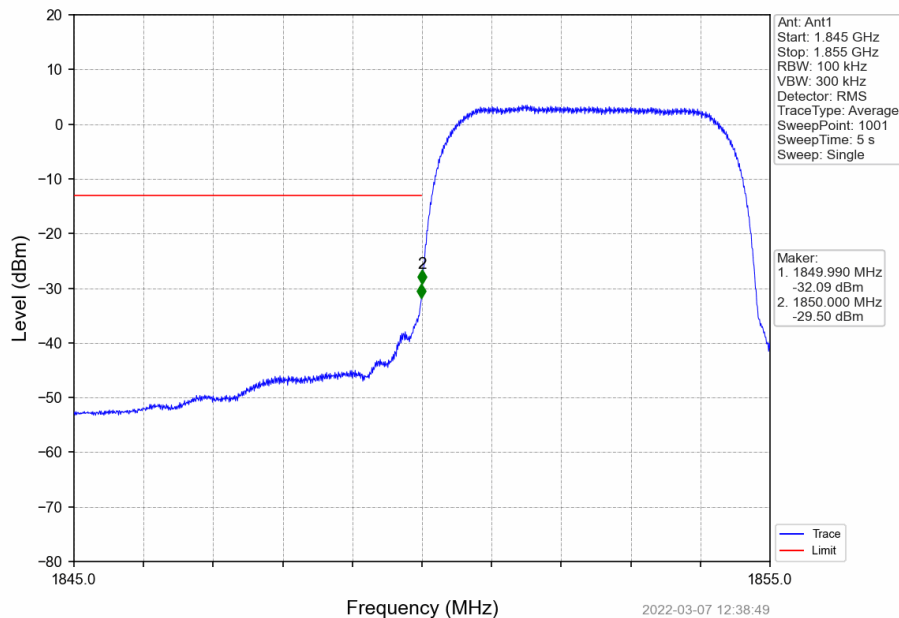
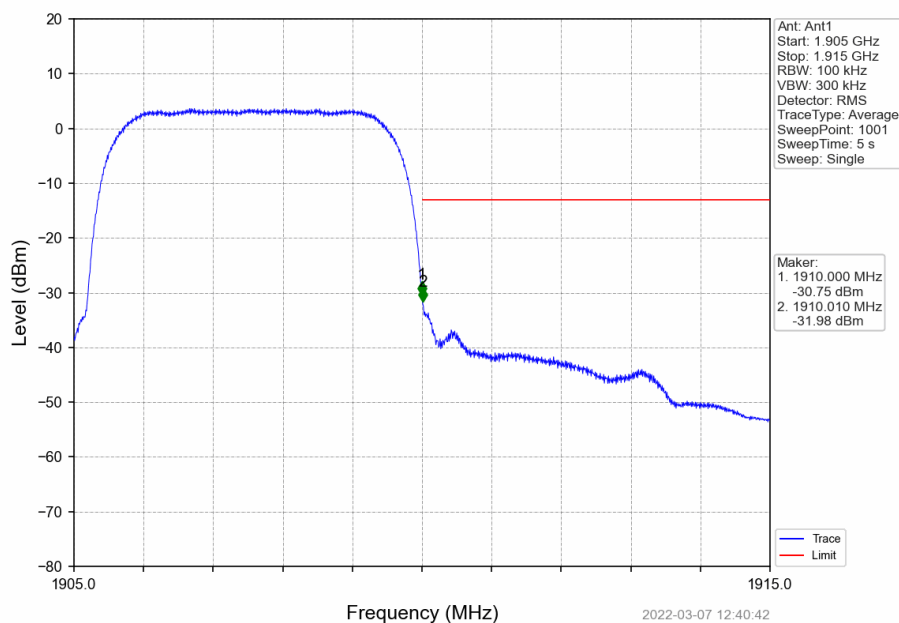


### Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



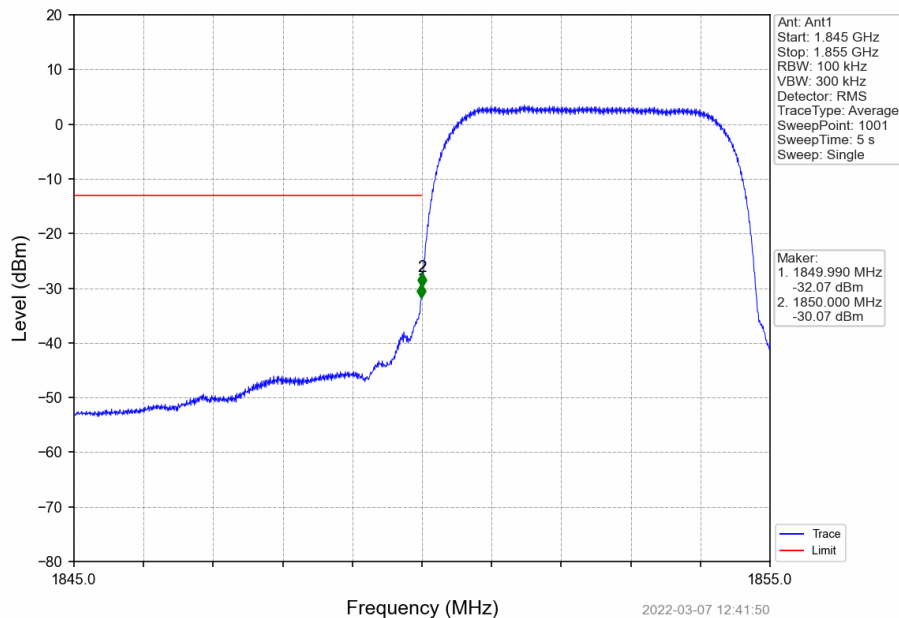
### Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



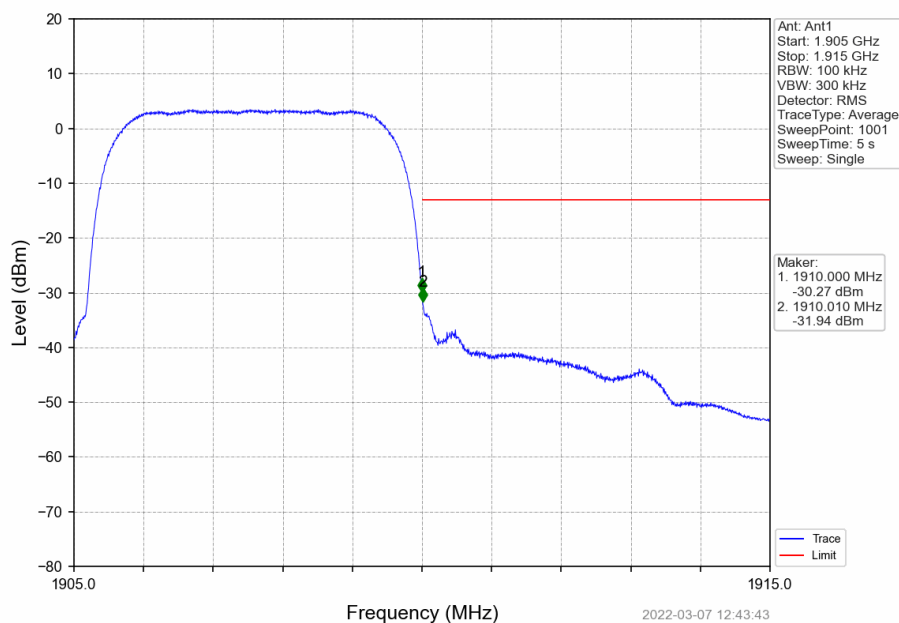
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### Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



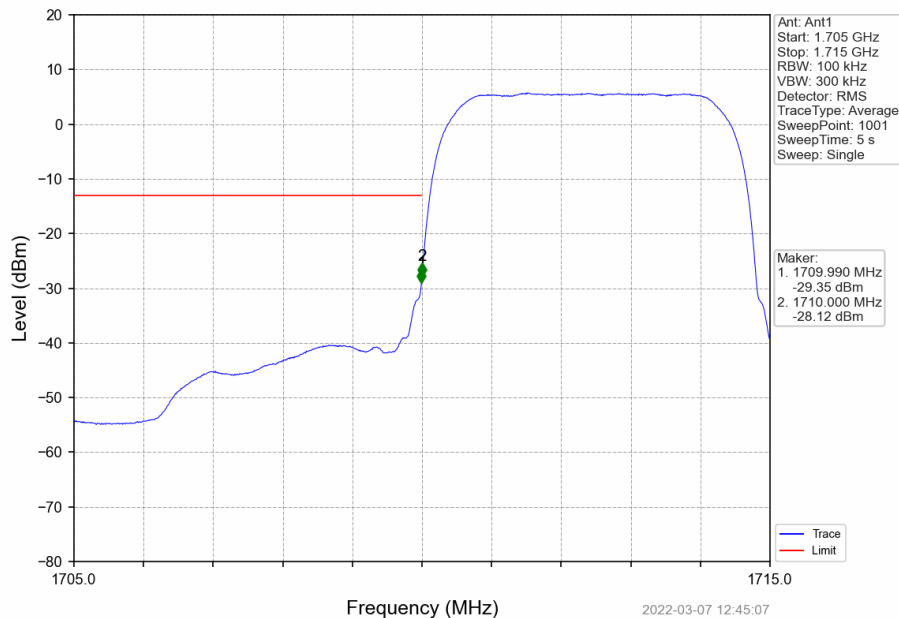
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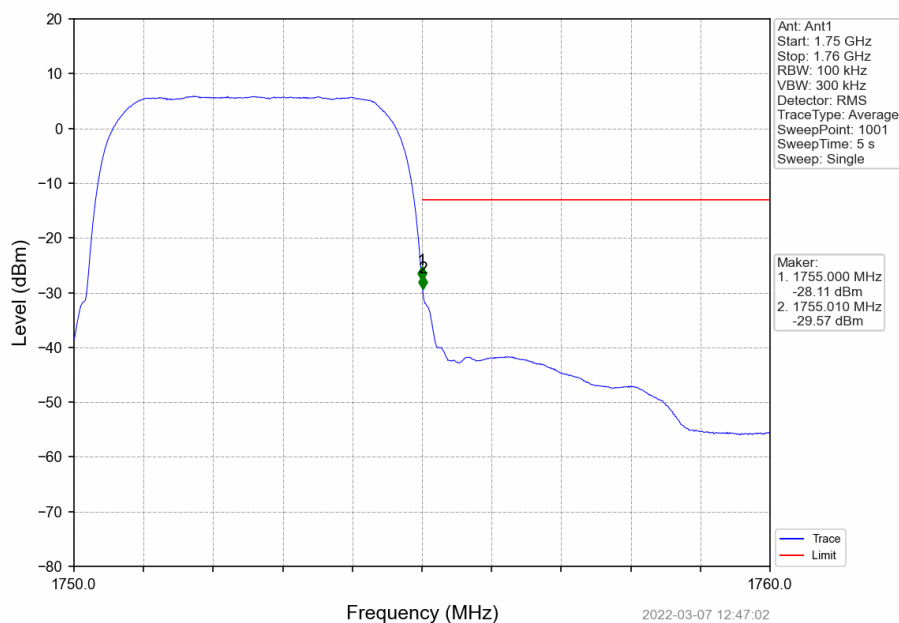
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### Band4\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



### Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV

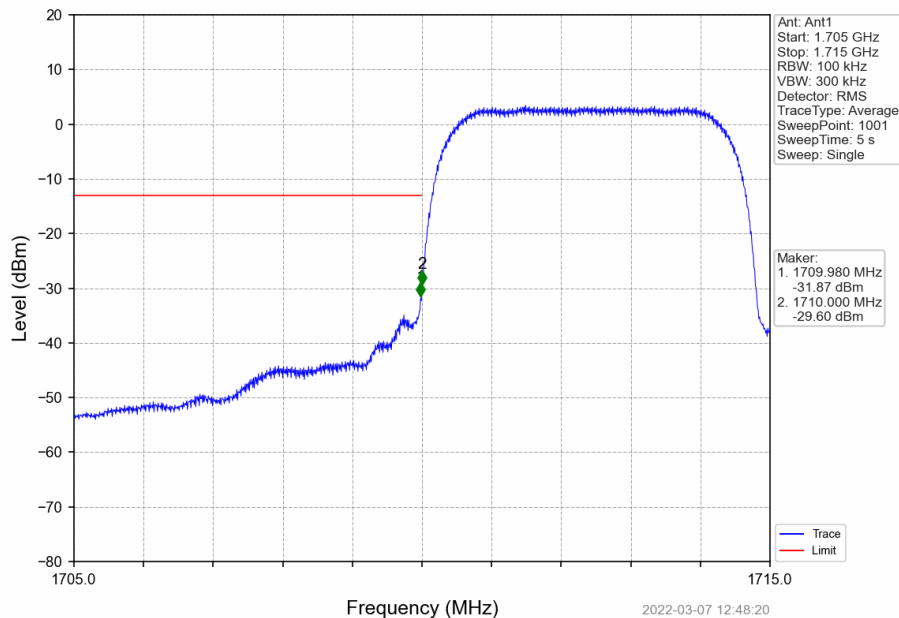


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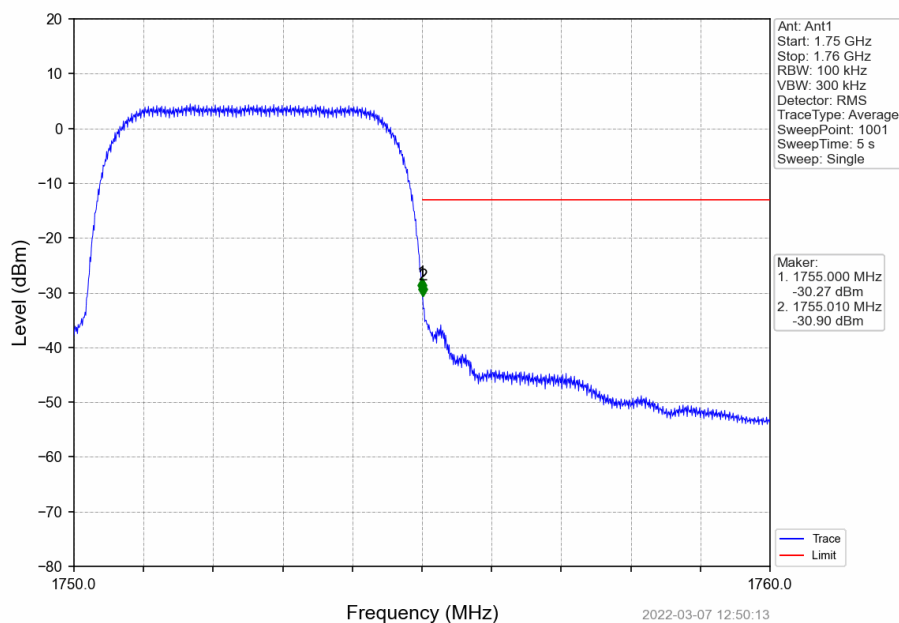
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### Band4\_HSDPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



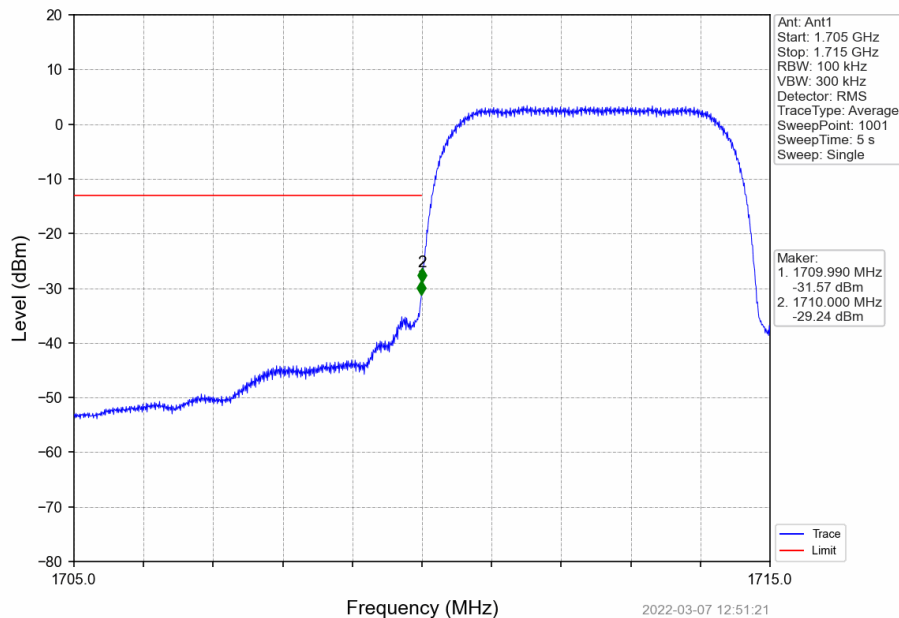
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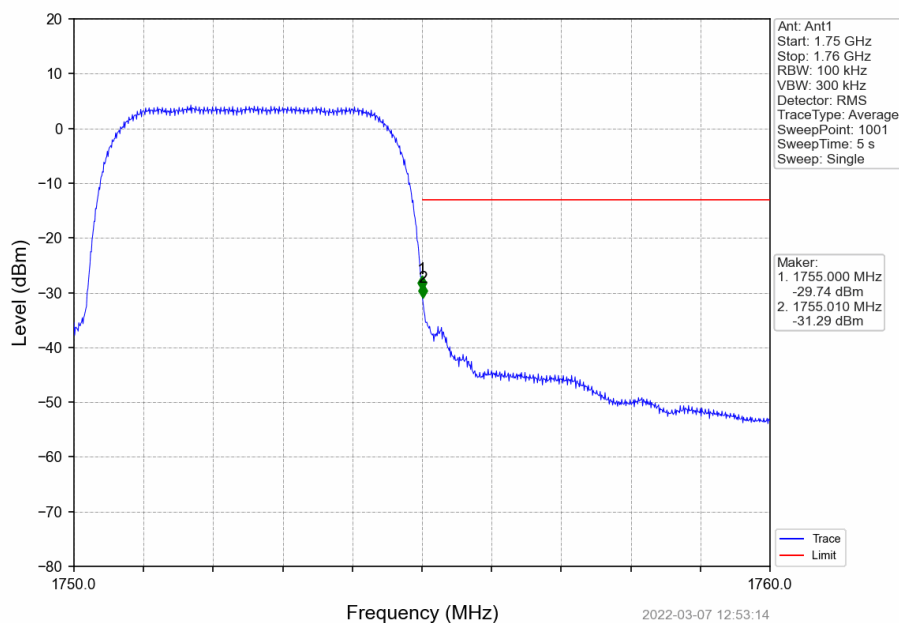
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### Band4\_HSUPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



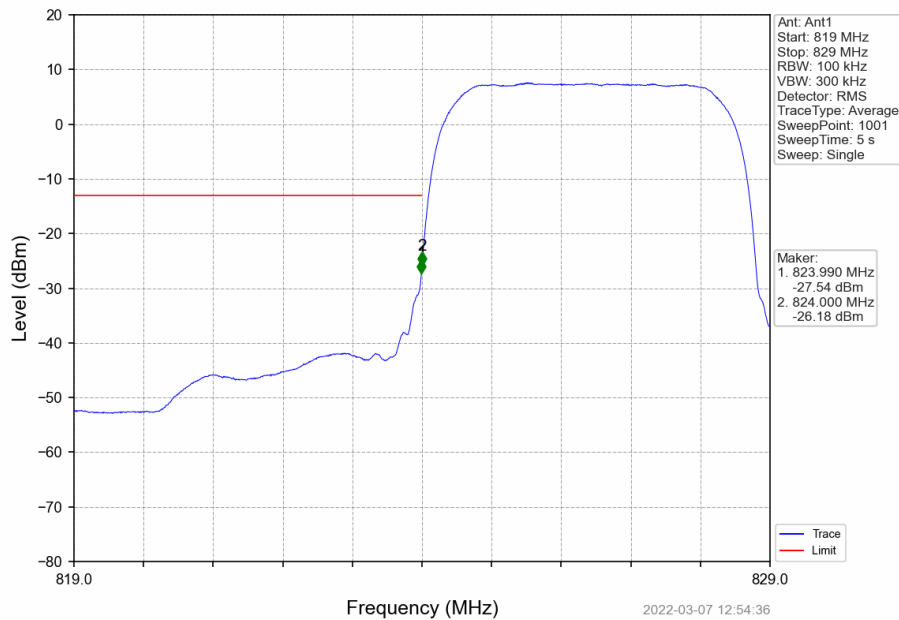
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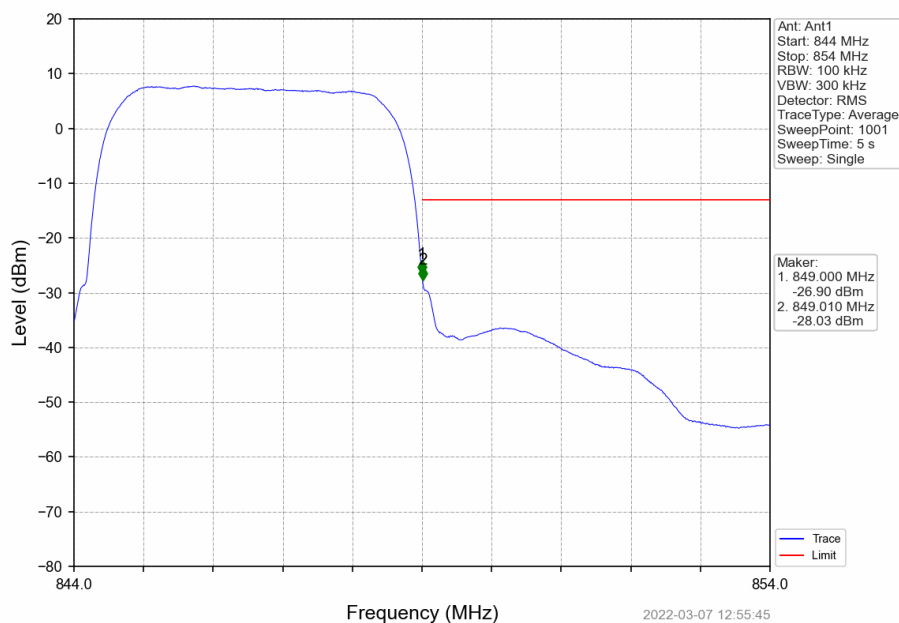
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### Band5\_RMC\_LCH\_826.4MHz\_12.2kbps RMC\_NTNV



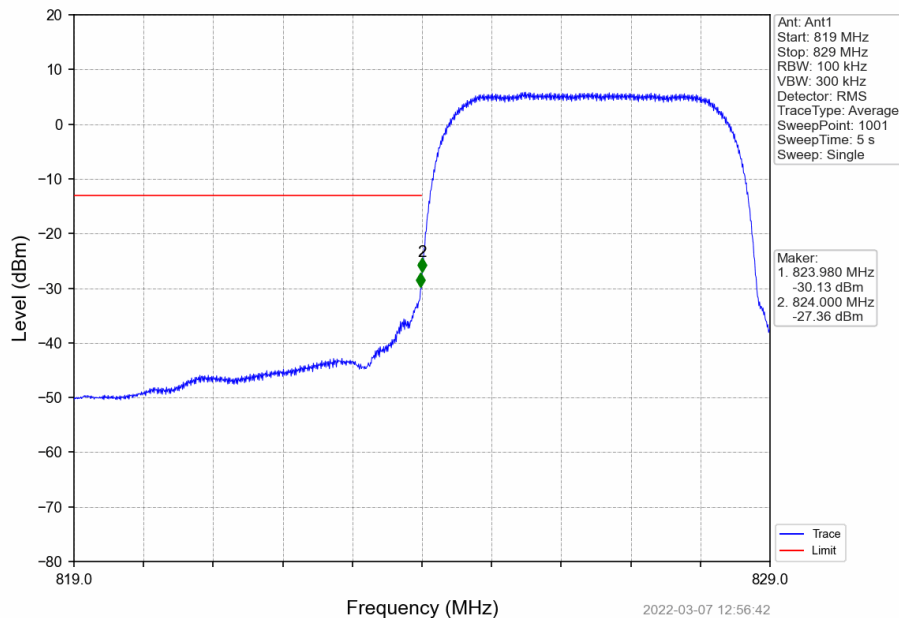
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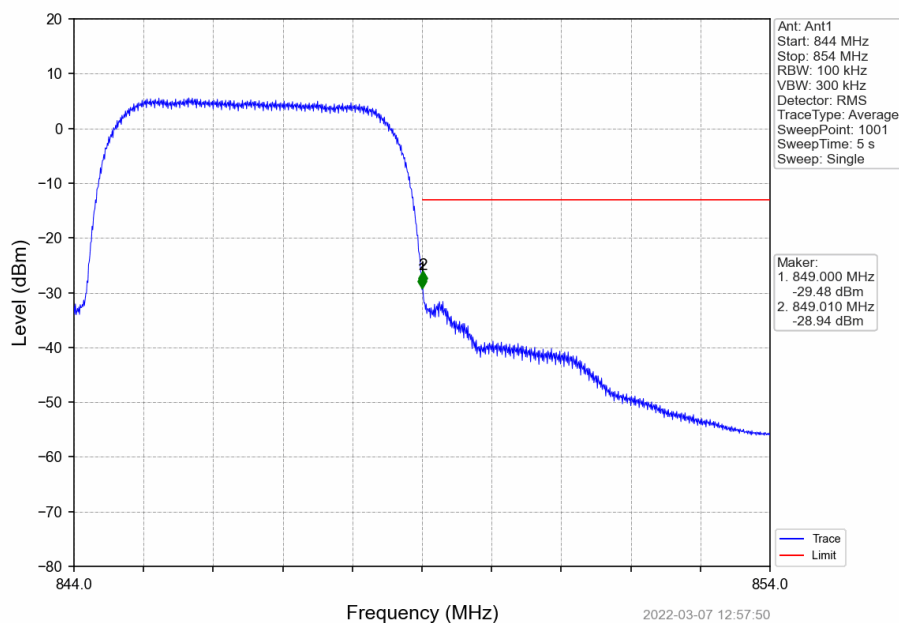
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### Band5\_HSDPA\_LCH\_826.4MHz\_Subtest 1\_NTNV



### Band5\_HSDPA\_HCH\_846.6MHz\_Subtest 1\_NTNV

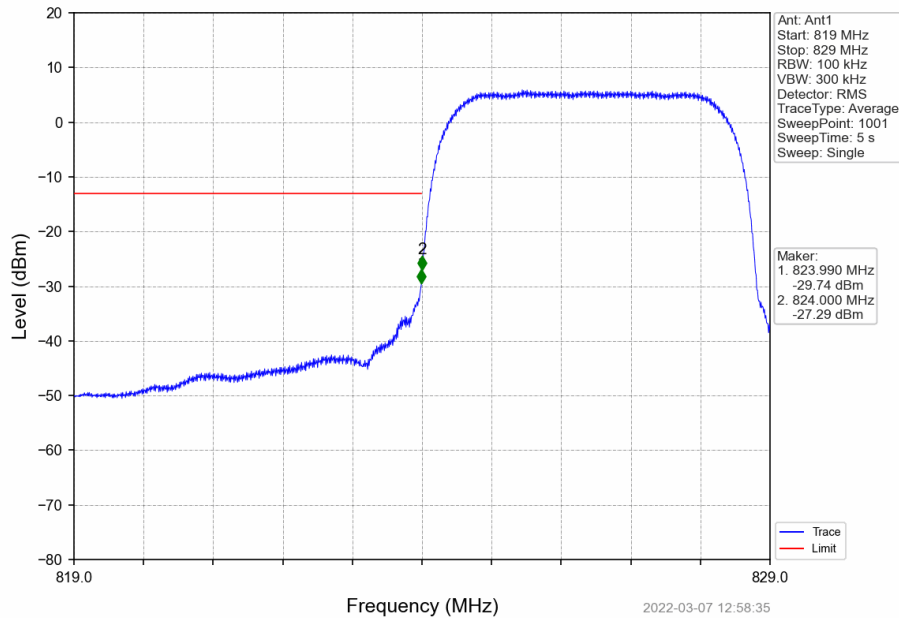


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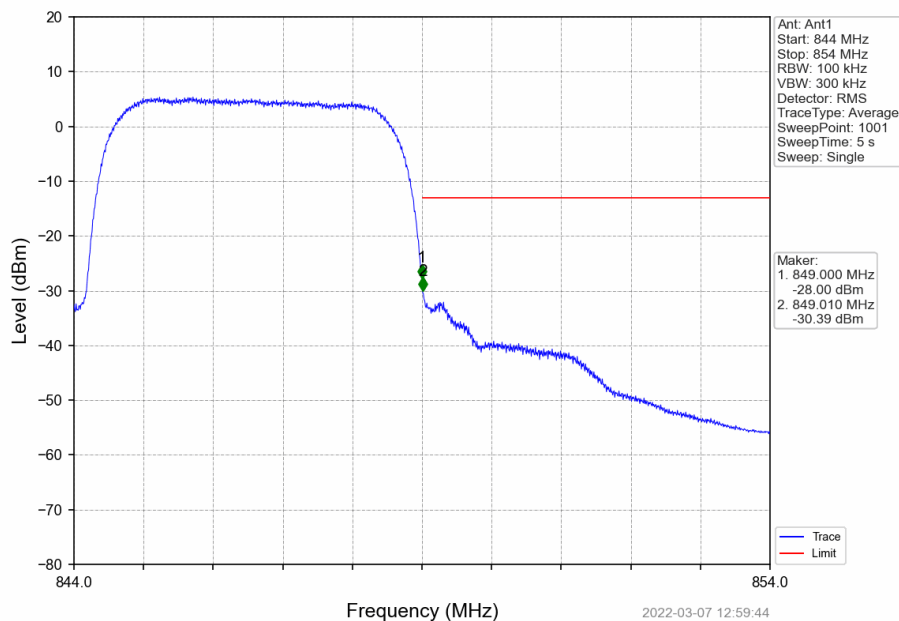
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### Band5\_HSUPA\_LCH\_826.4MHz\_Subtest 1\_NTNV



### Band5\_HSUPA\_HCH\_846.6MHz\_Subtest 1\_NTNV



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### 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238, §27.53(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm

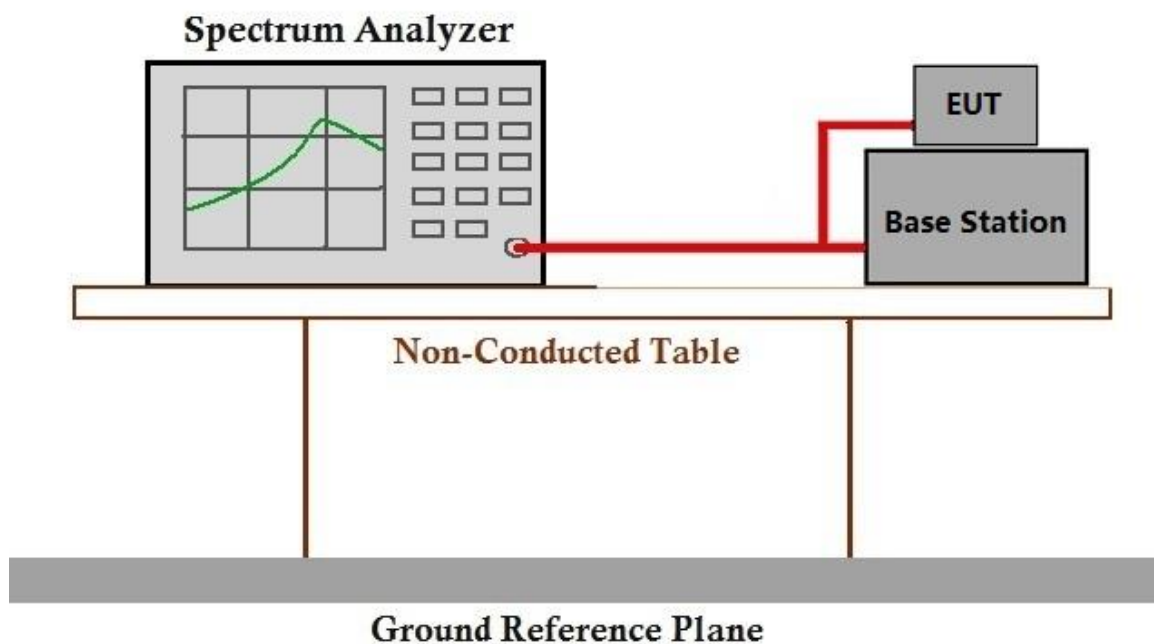
#### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 20: TX mode\_Keep the EUT in transmitting mode

#### 6.5.2 Test Setup Diagram



#### 6.5.3 Measurement Data

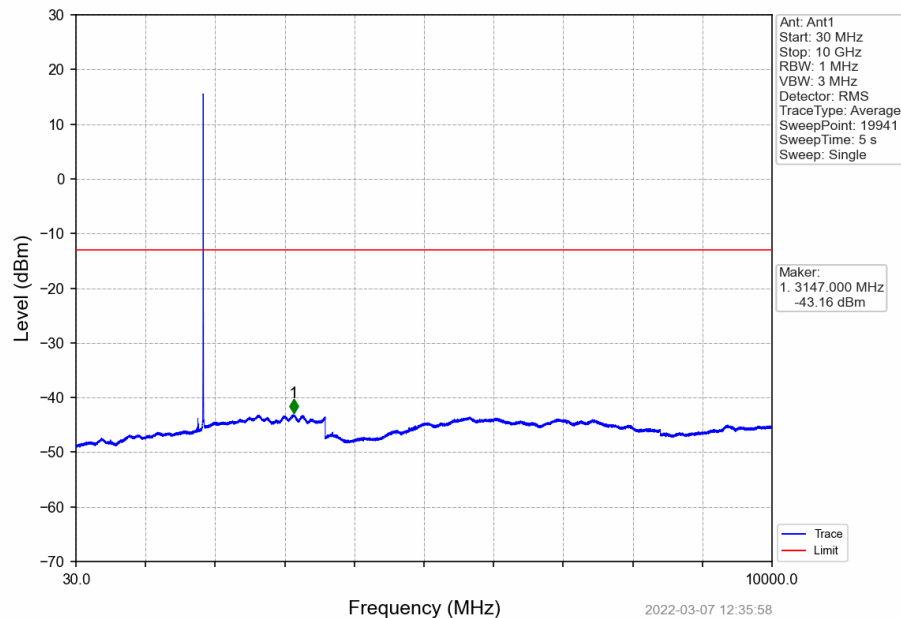


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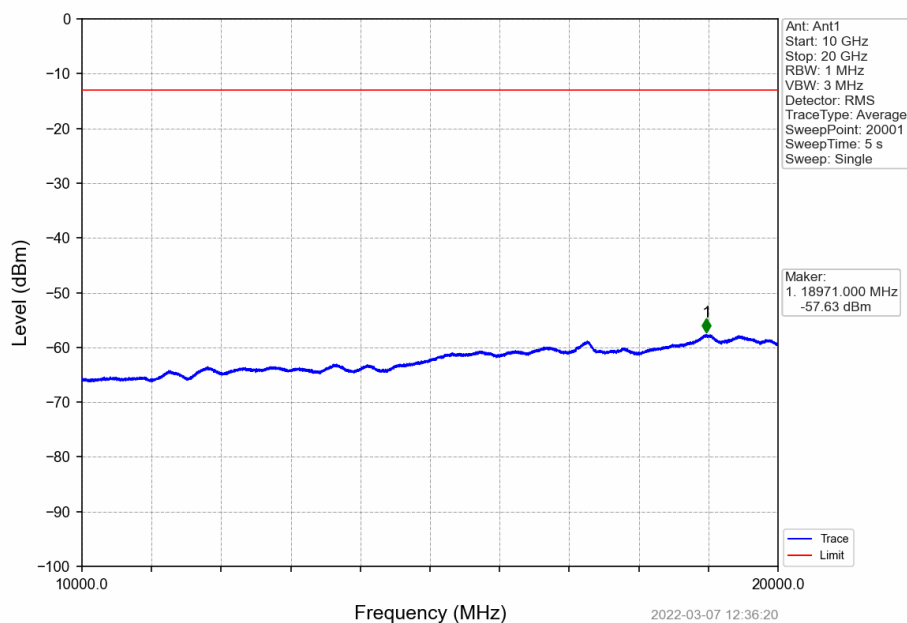
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### Band2\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



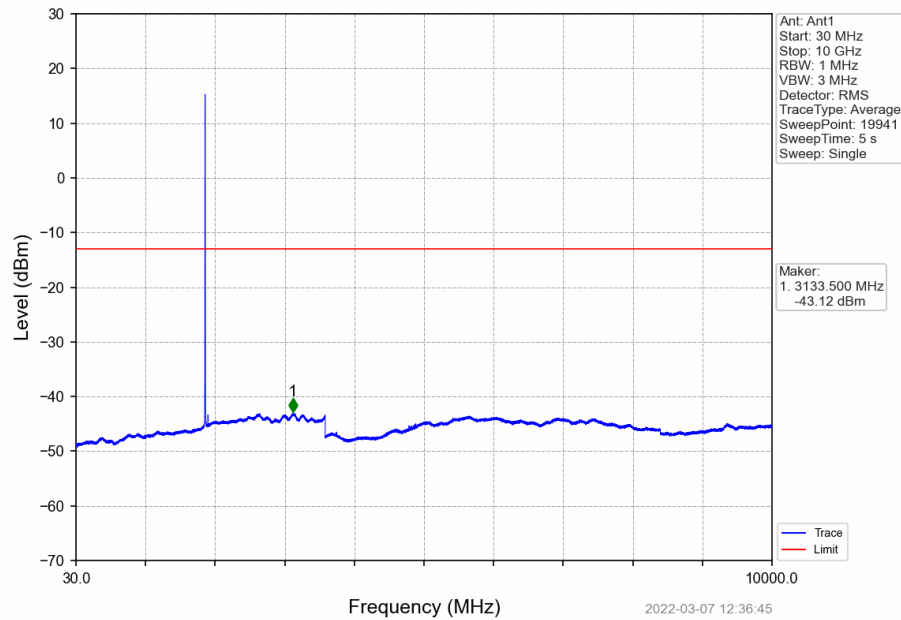
### Band2\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



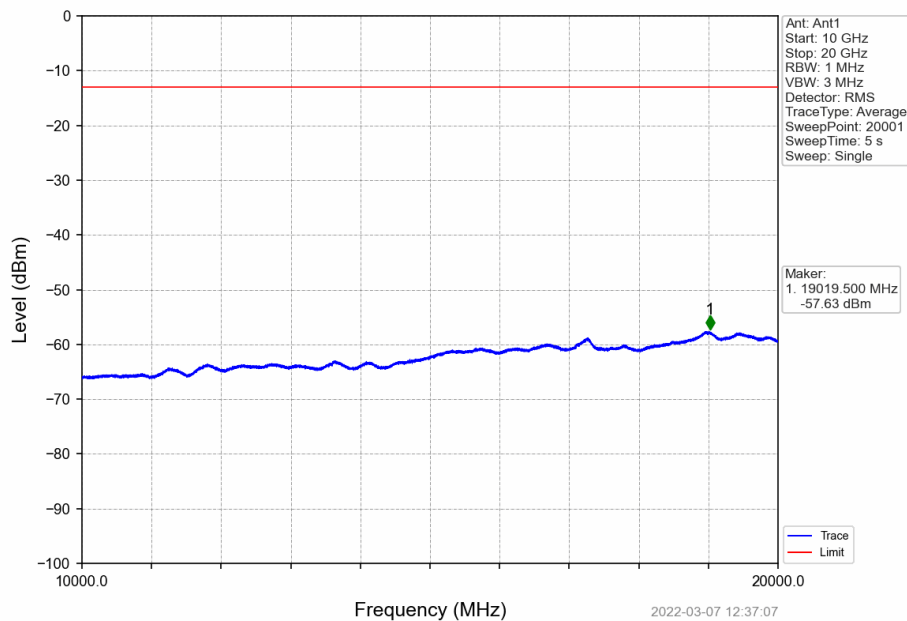
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### Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



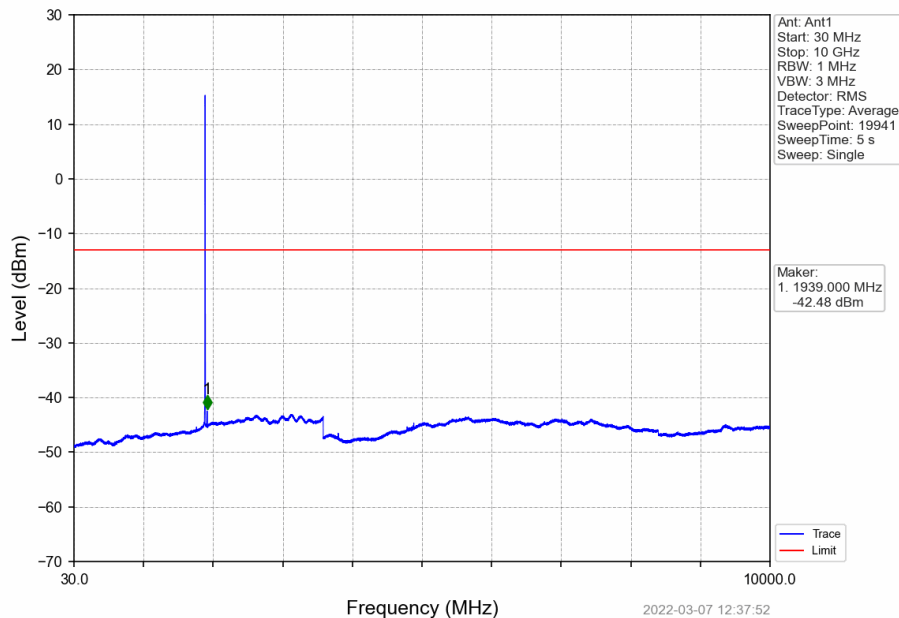
### Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



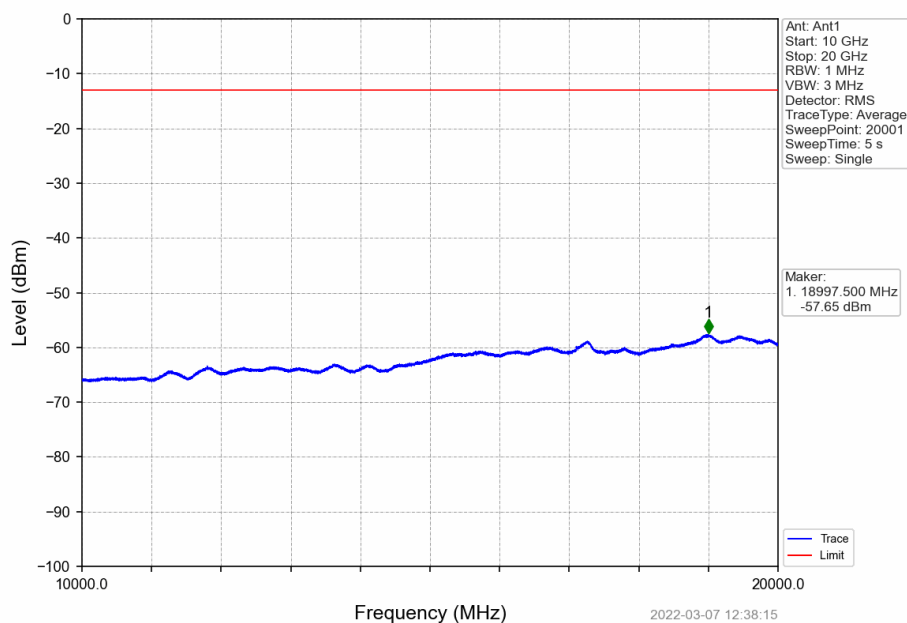
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### Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



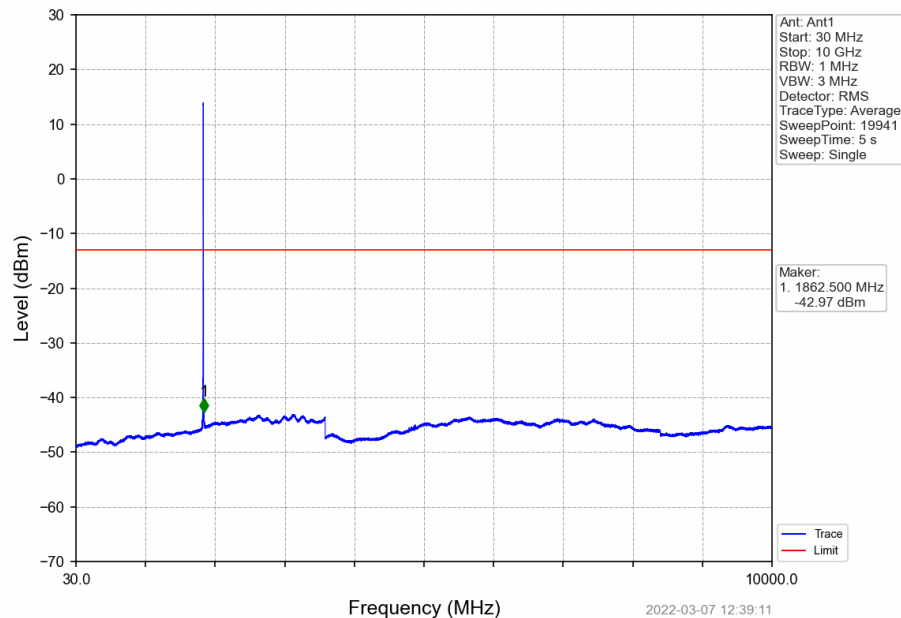
### Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



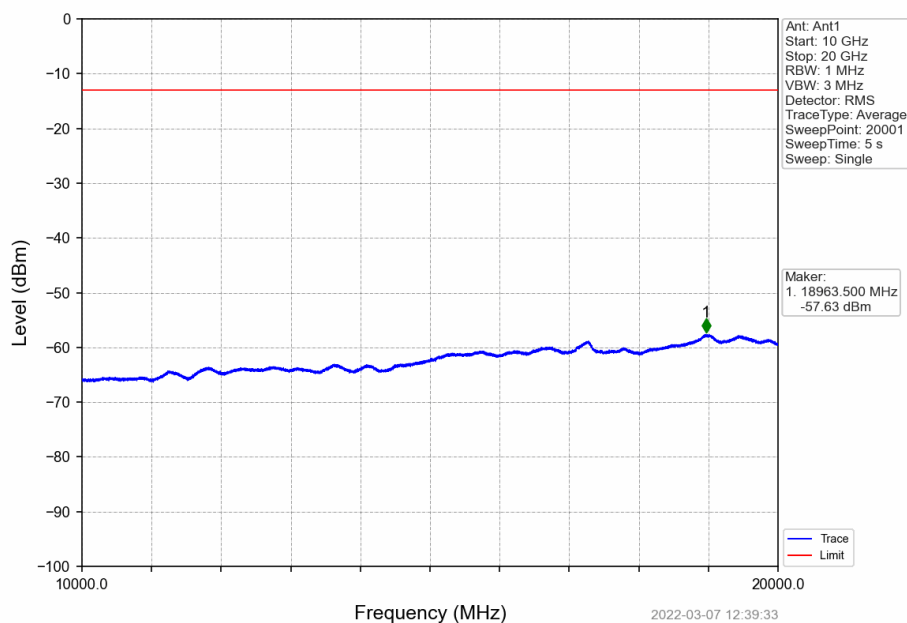
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### Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



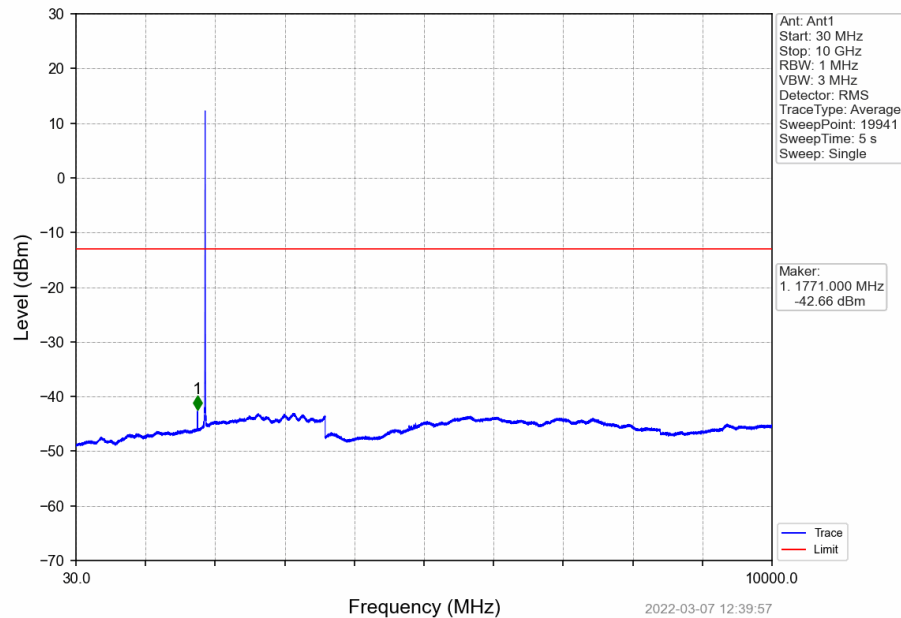
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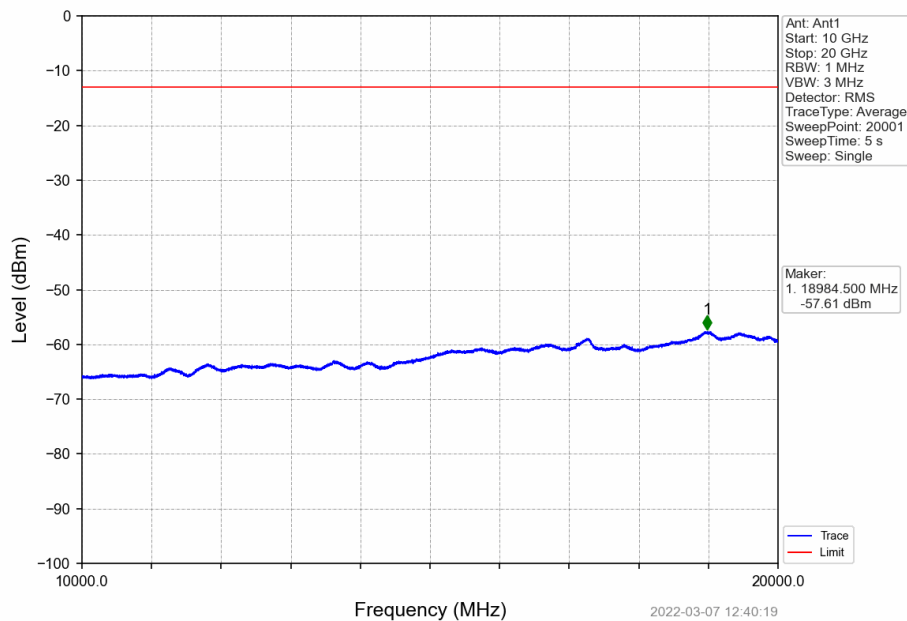
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### Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



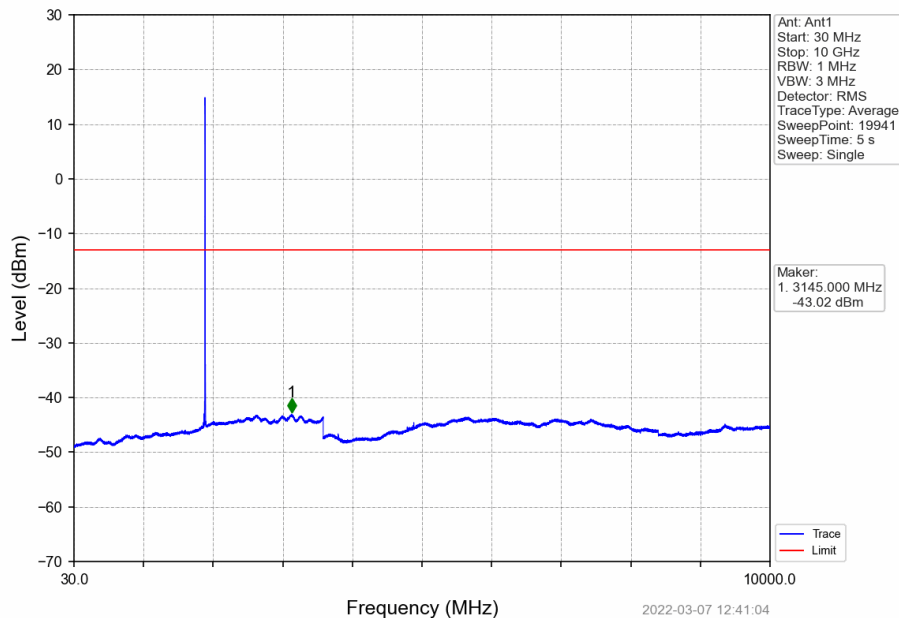
### Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



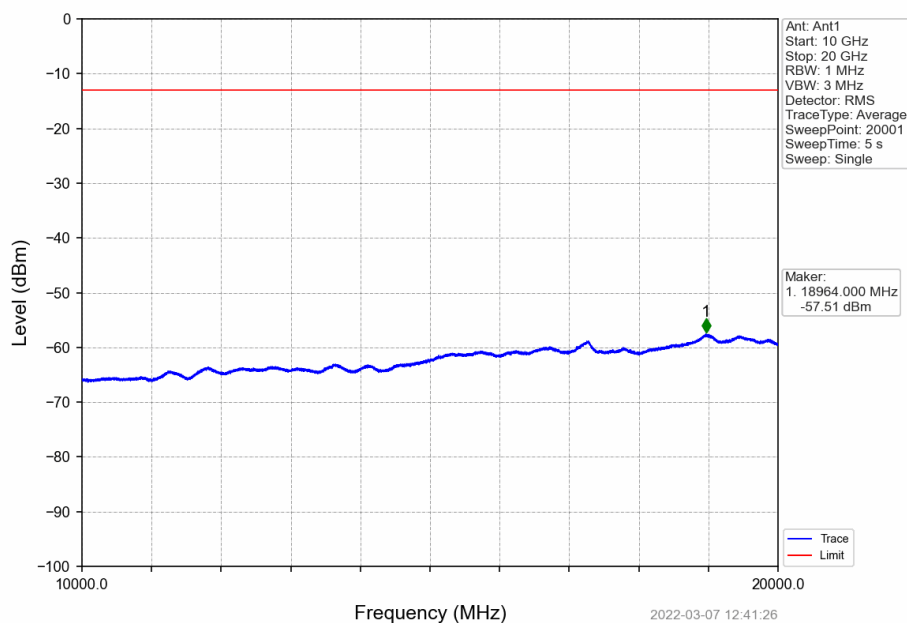
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### Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



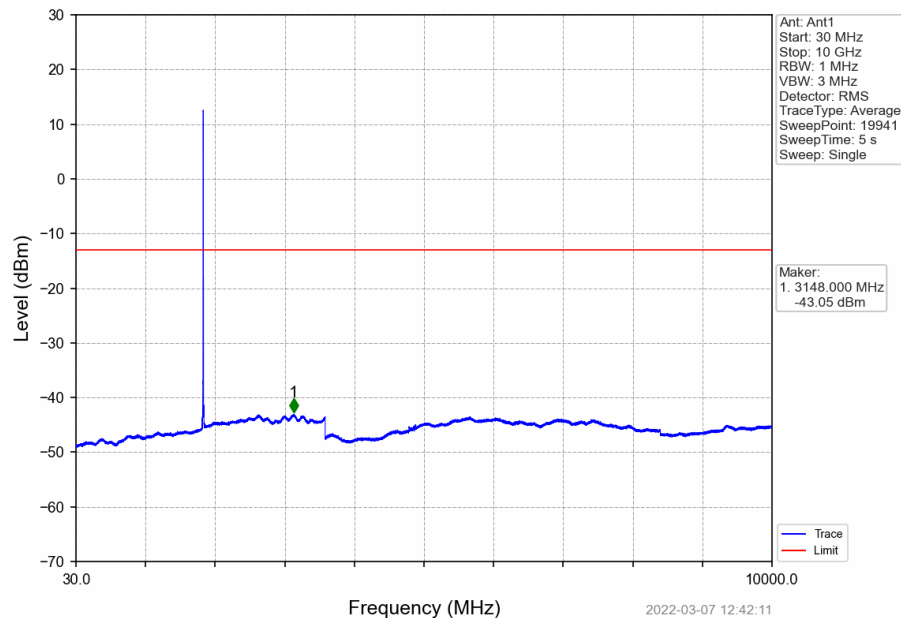
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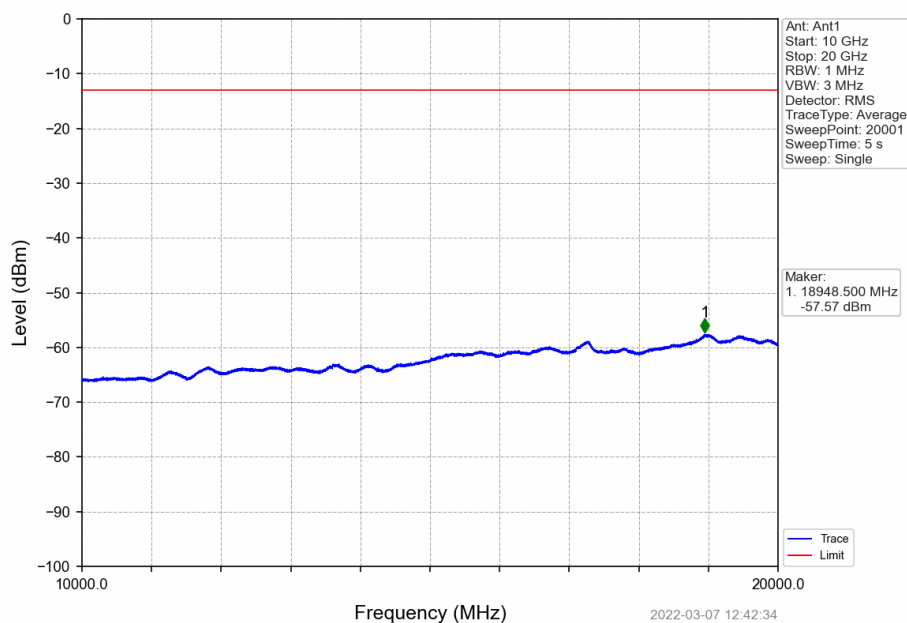
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### Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



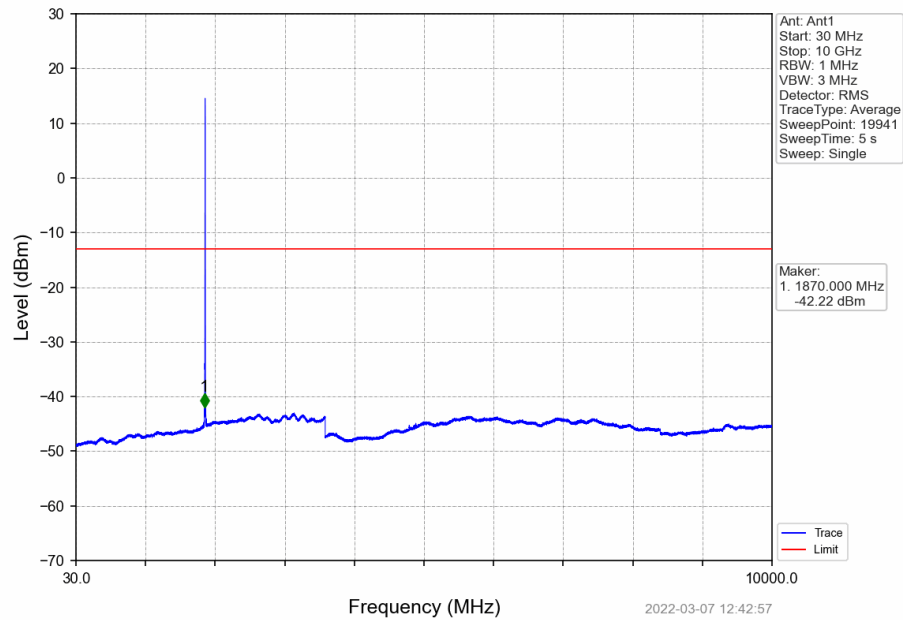
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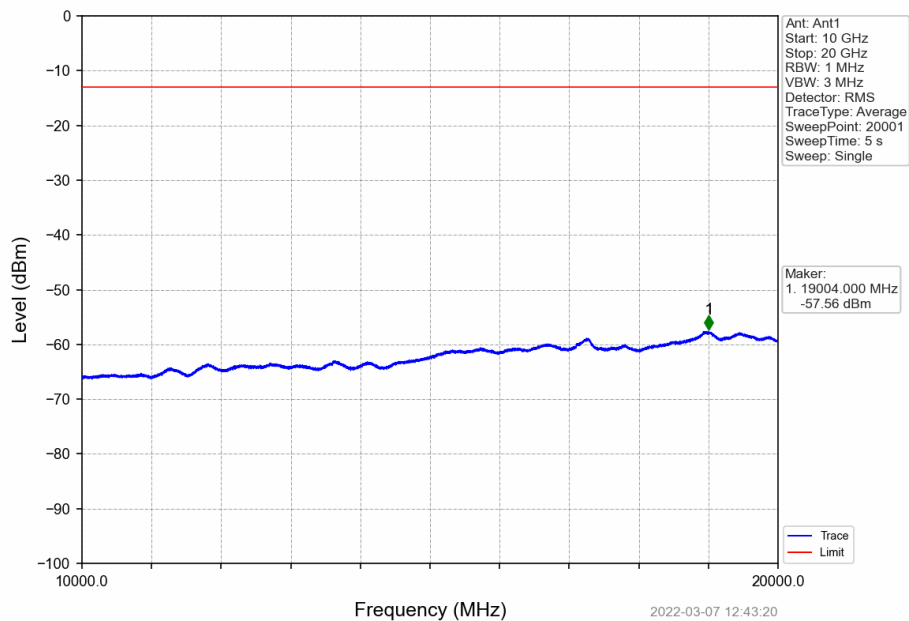
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### Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



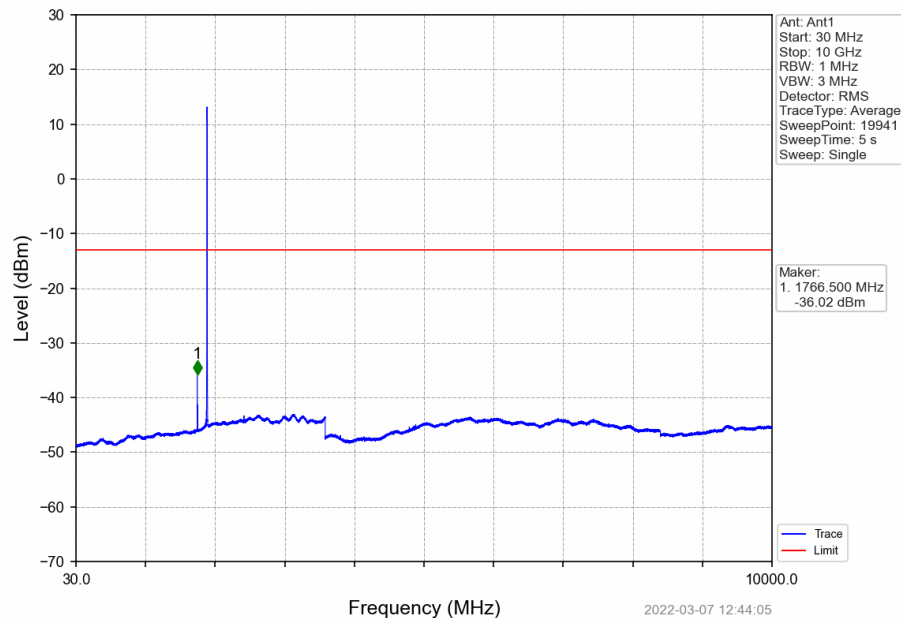
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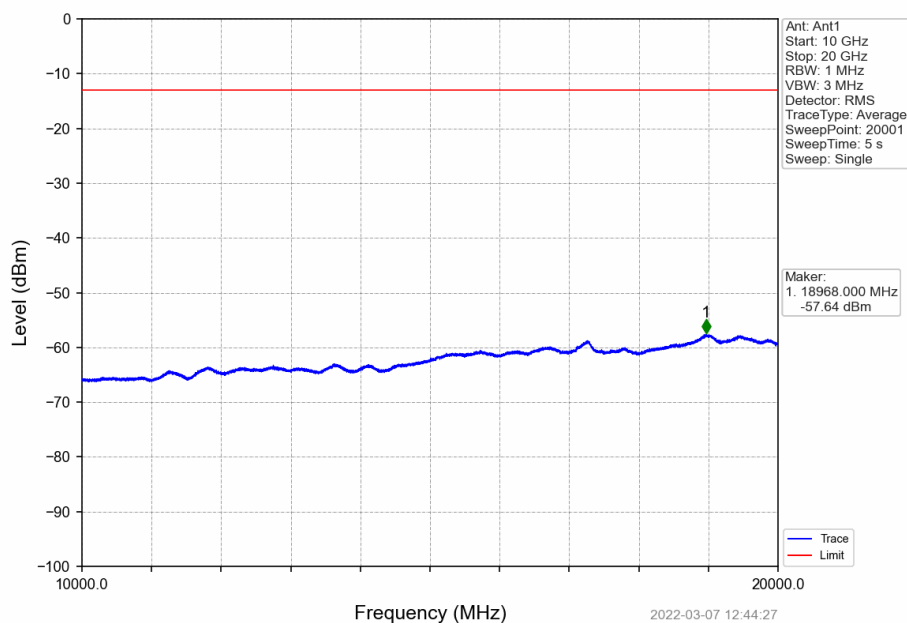
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### Band2\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



### Band2\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV

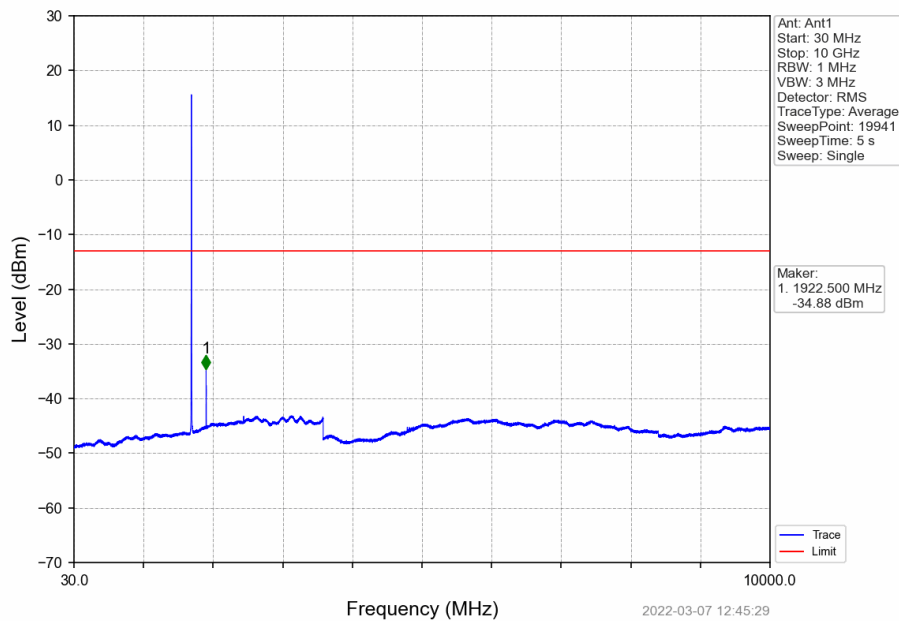


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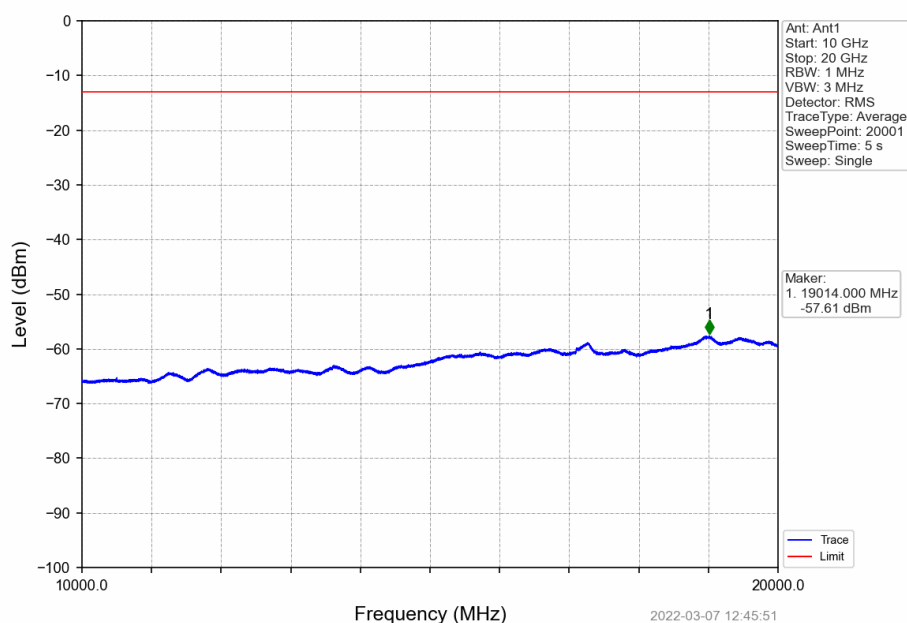
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Band4\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



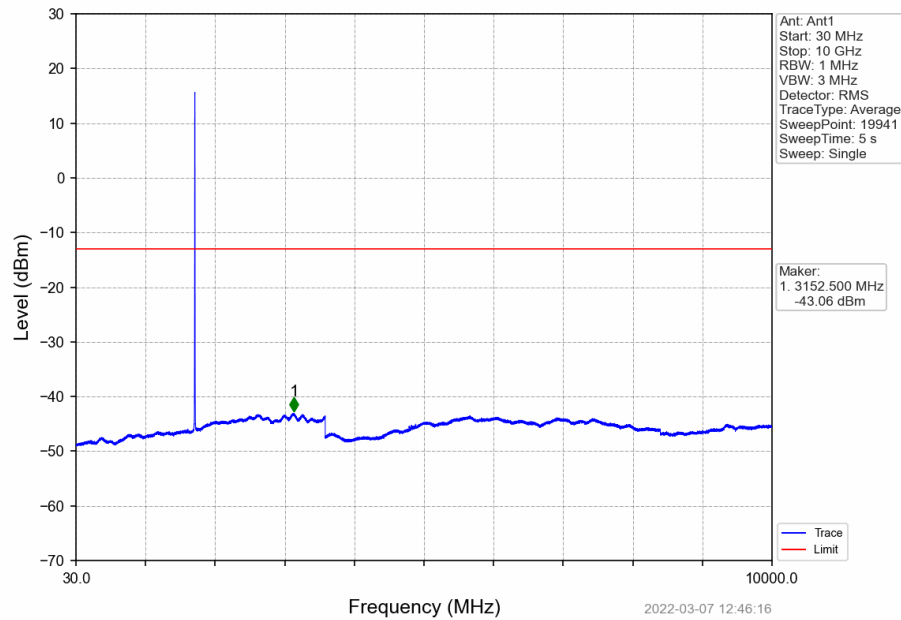
Band4\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



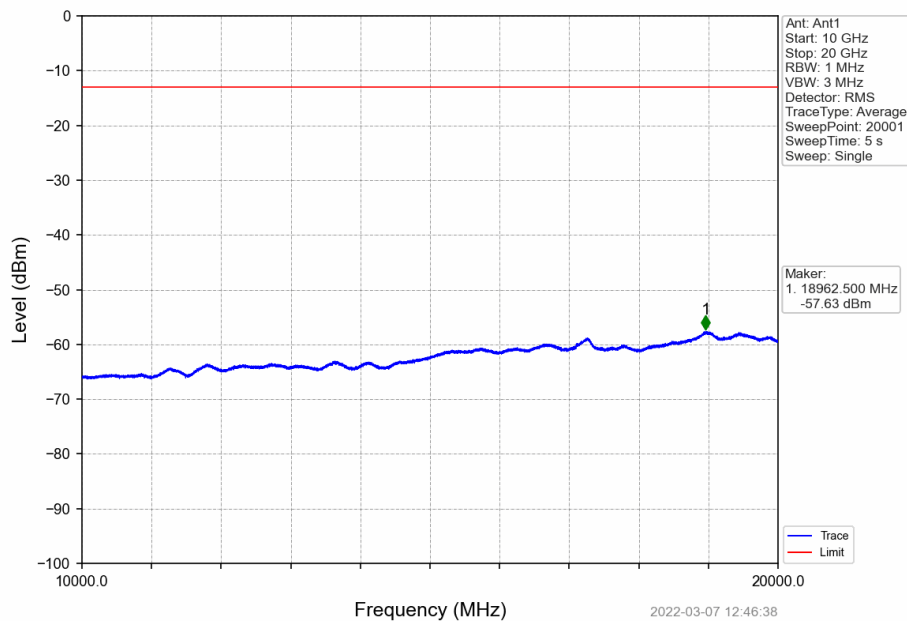
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Band4\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



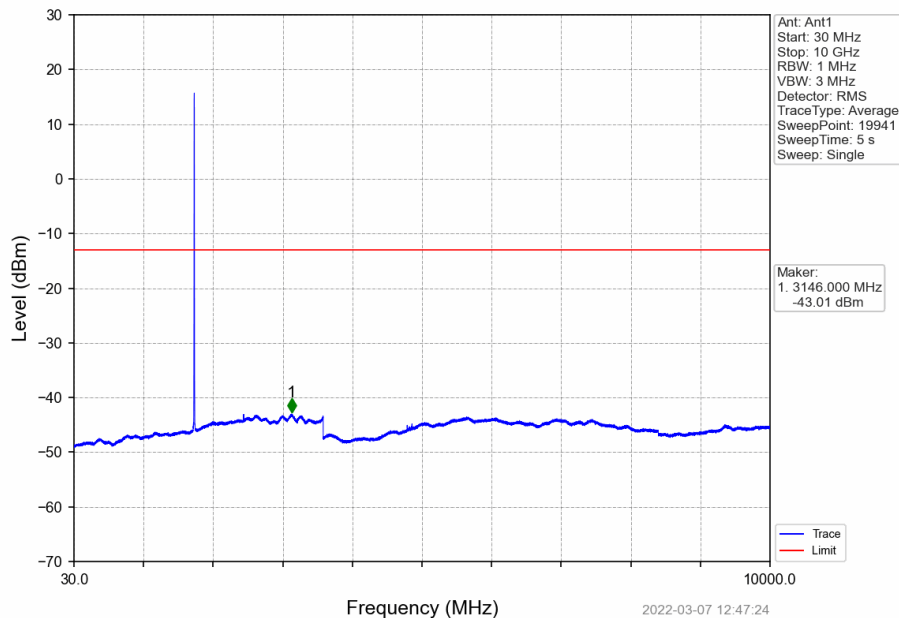
Band4\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



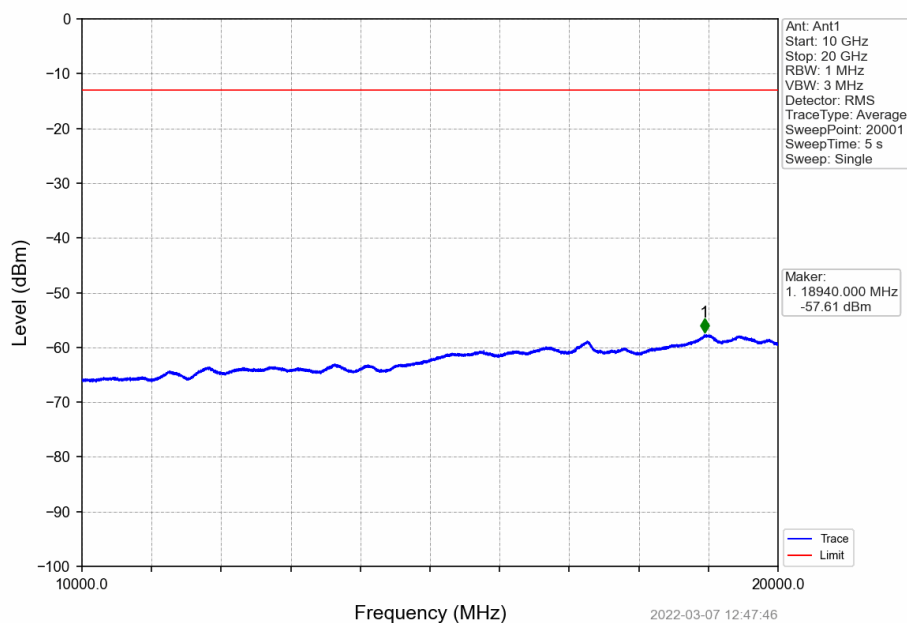
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### Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



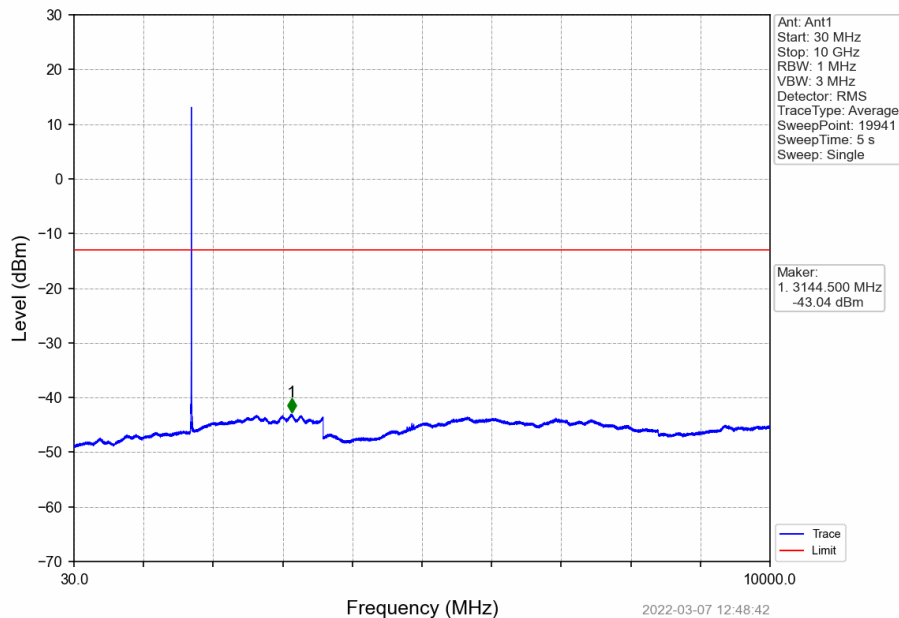
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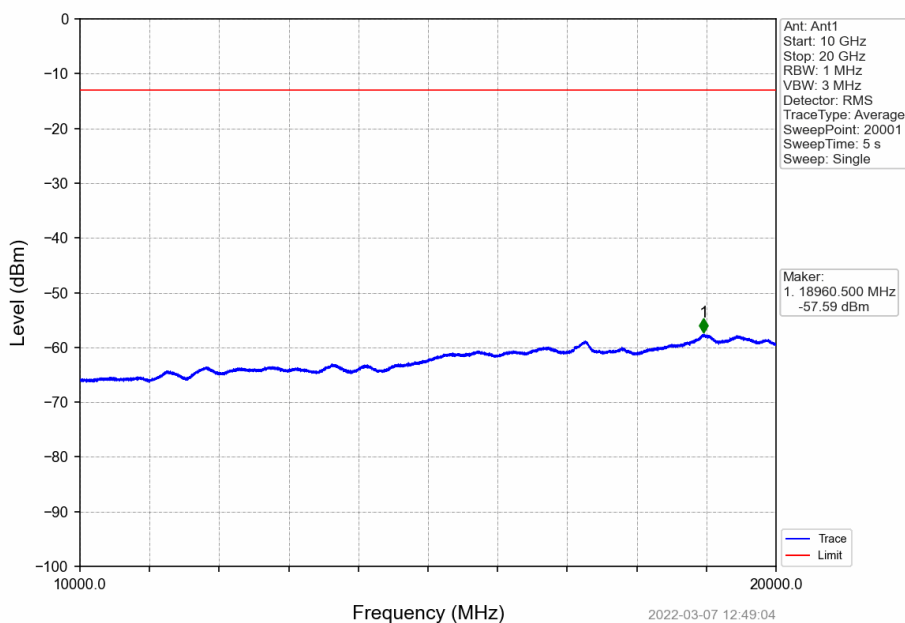
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### Band4\_HSDPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



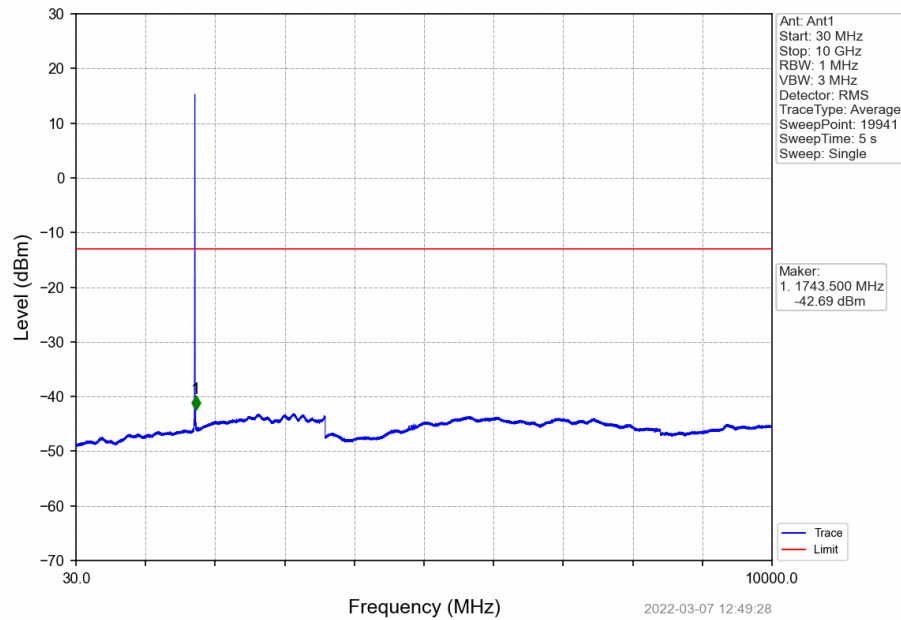
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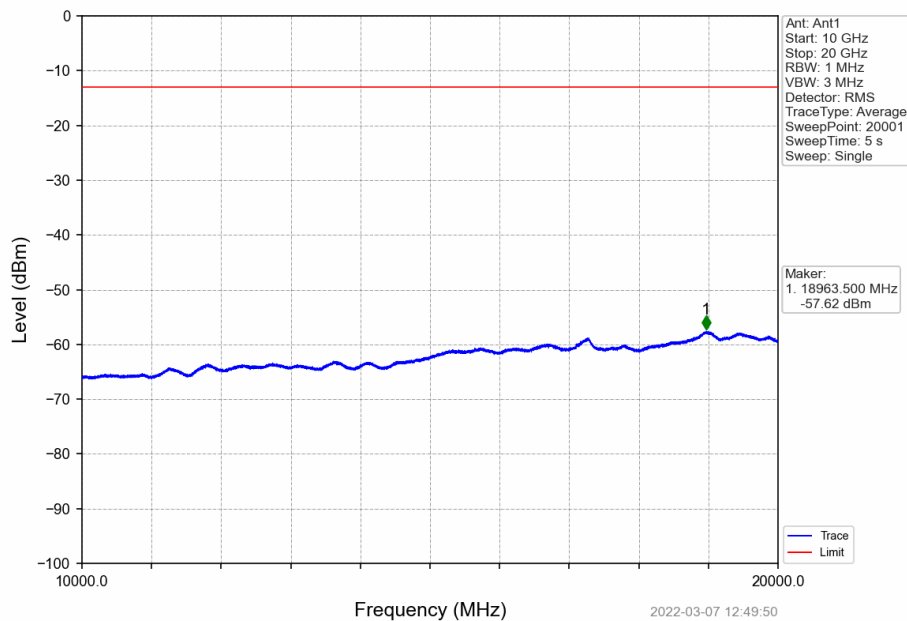
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### Band4\_HSDPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



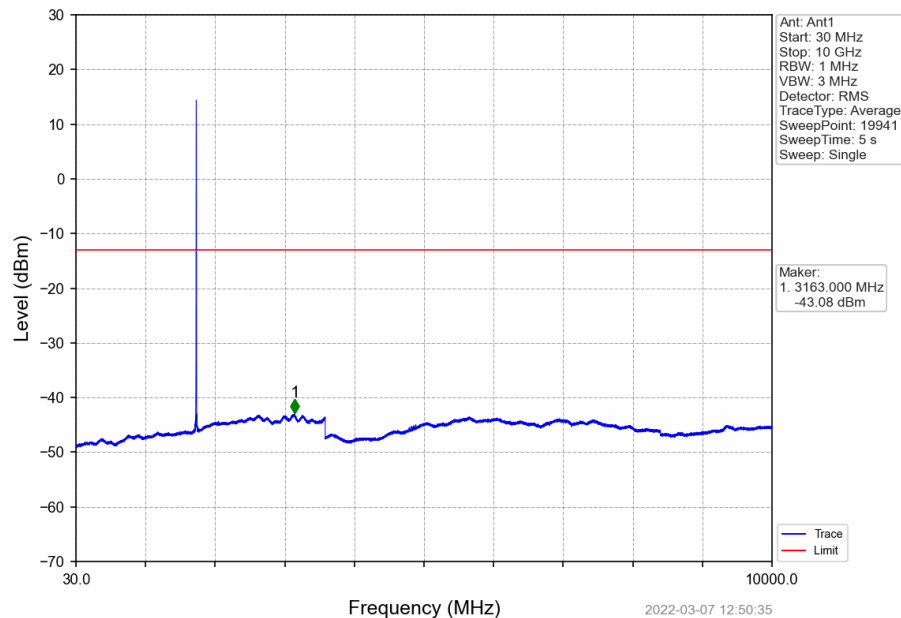
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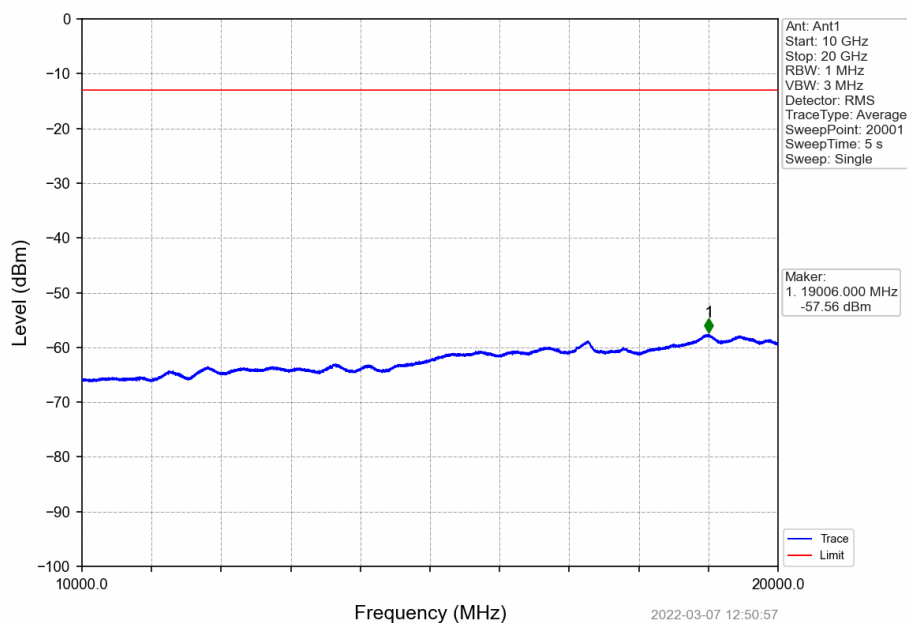
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### Band4\_HSDPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



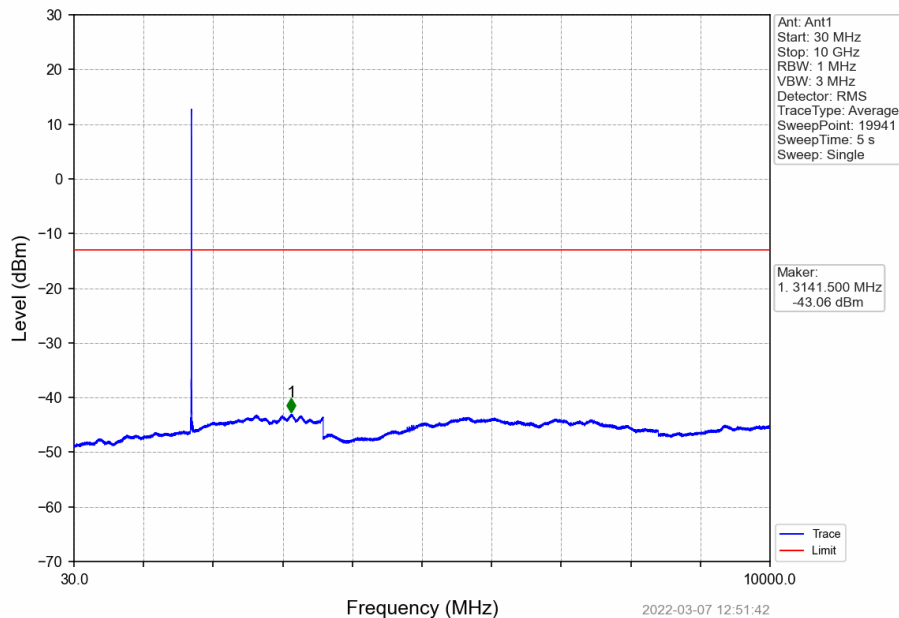
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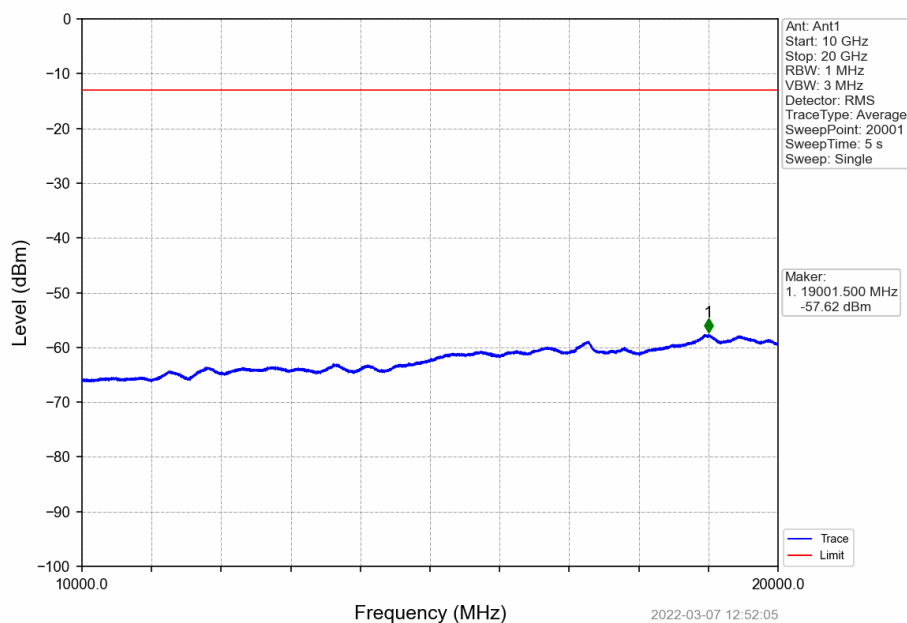
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### Band4\_HSUPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



### Band4\_HSUPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV

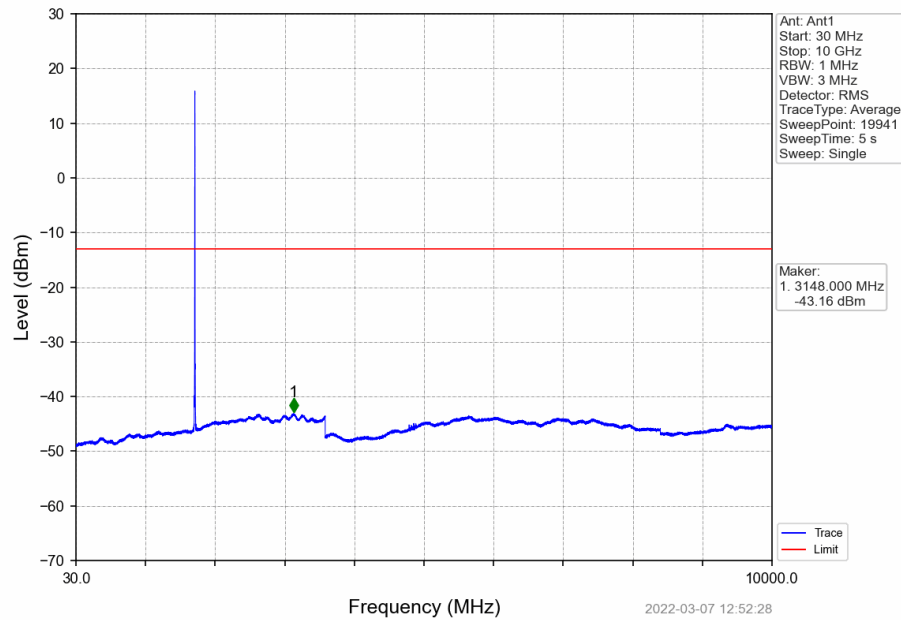


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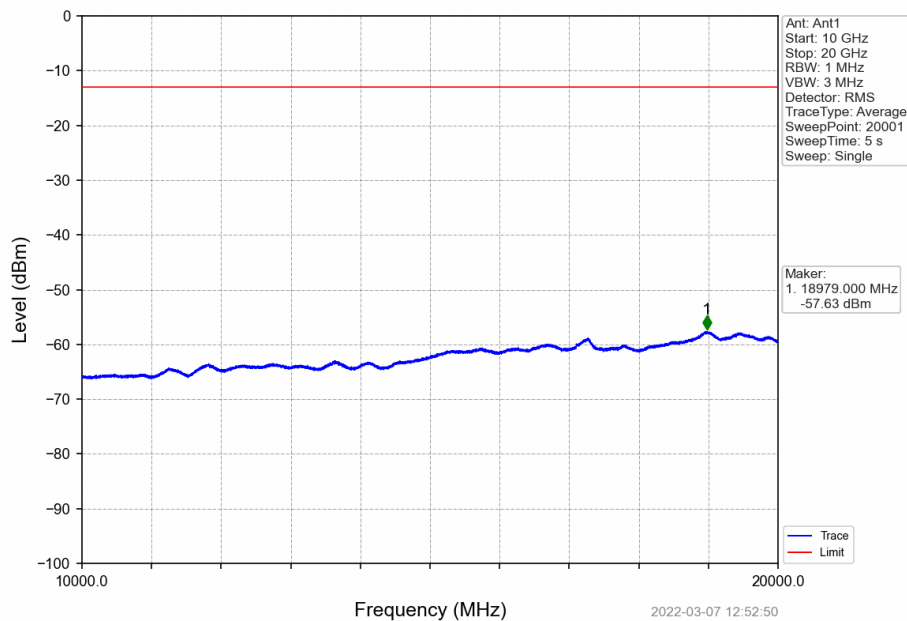
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### Band4\_HSUPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



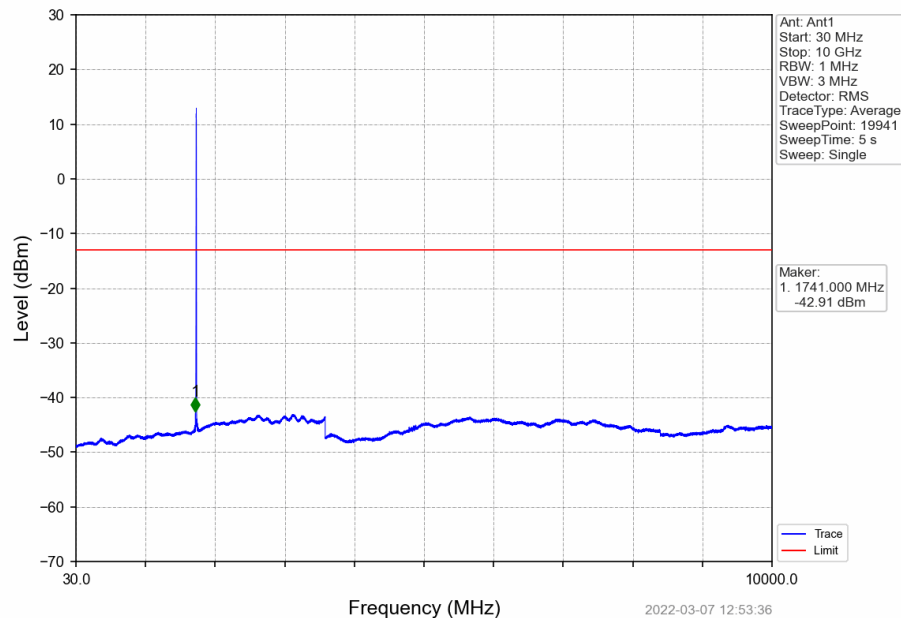
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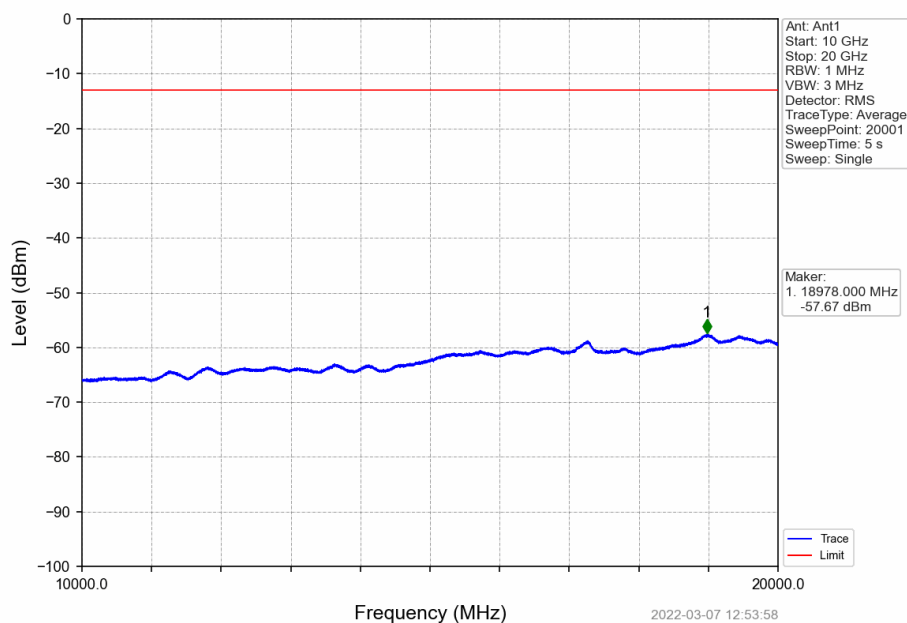
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### Band4\_HSUPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



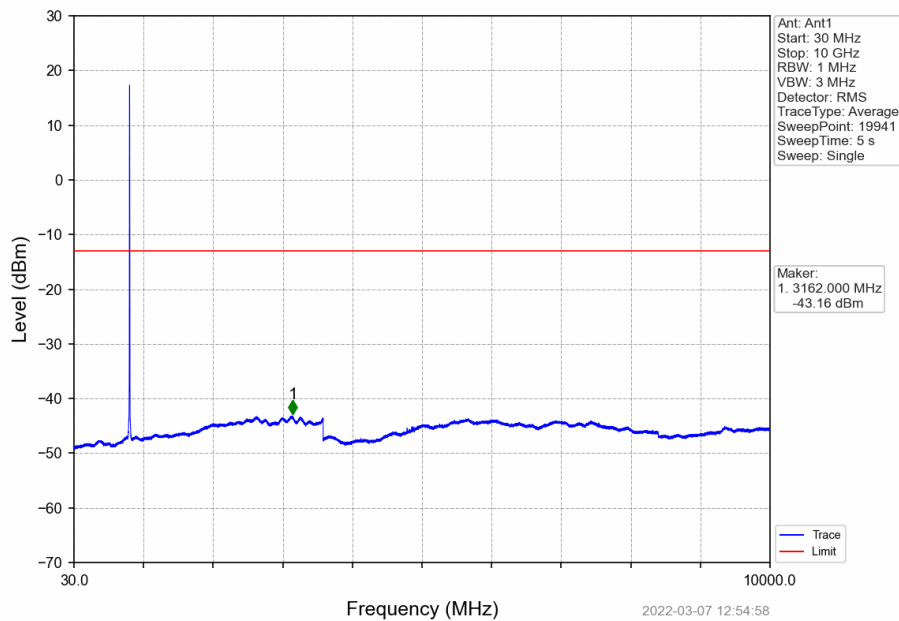
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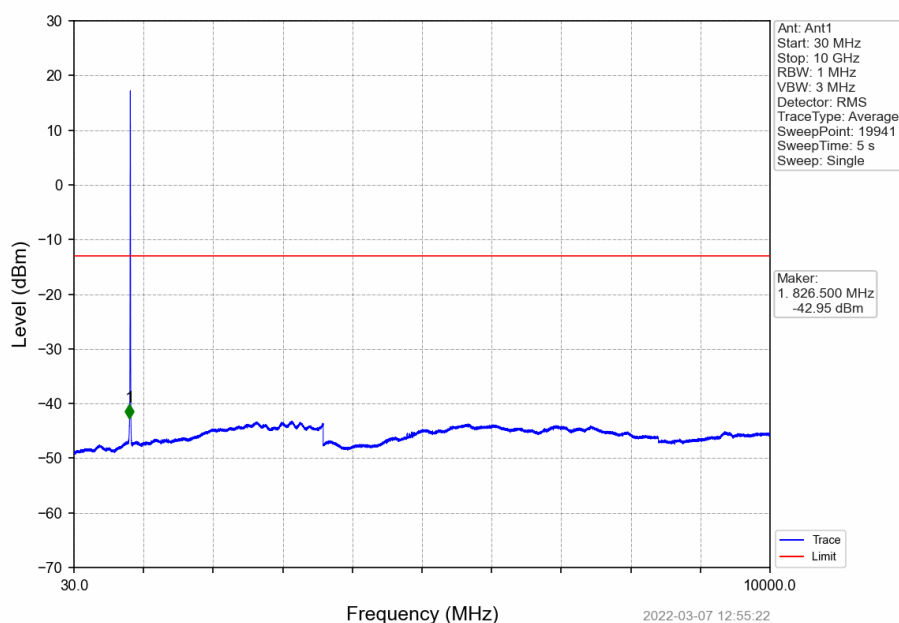
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### Band5\_RMC\_LCH\_826.4MHz\_12.2kbps RMC\_NTNV



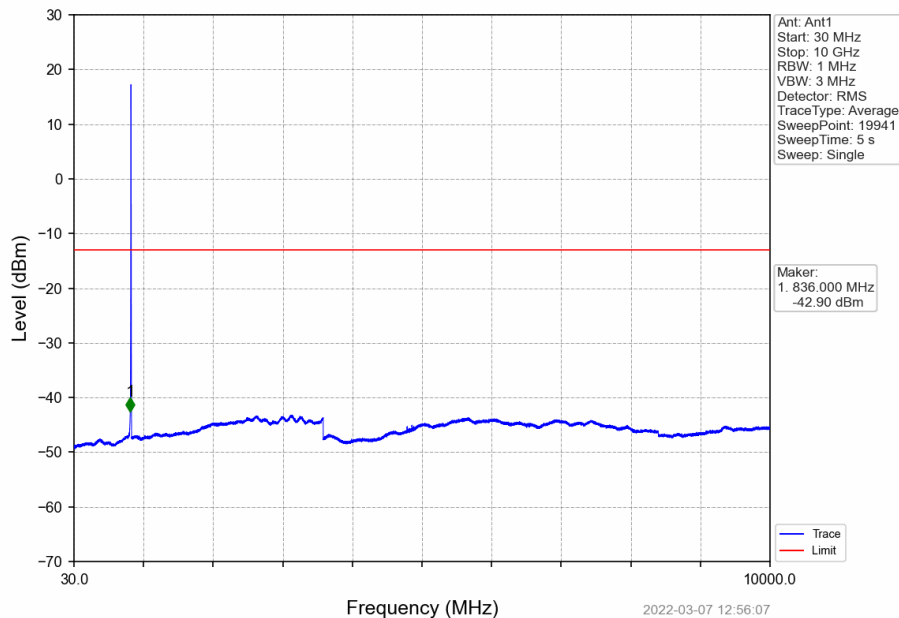
### Band5\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV



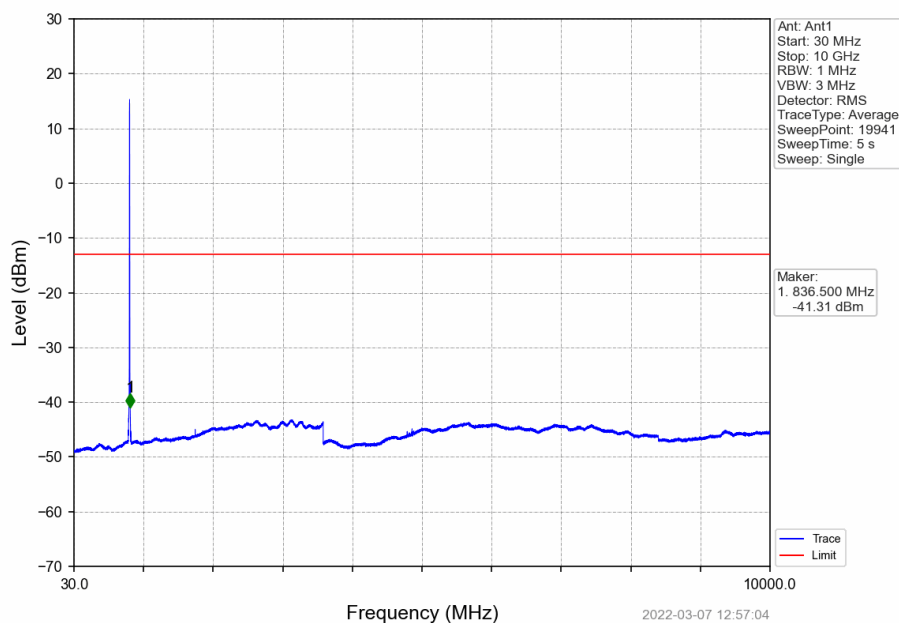
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### Band5\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



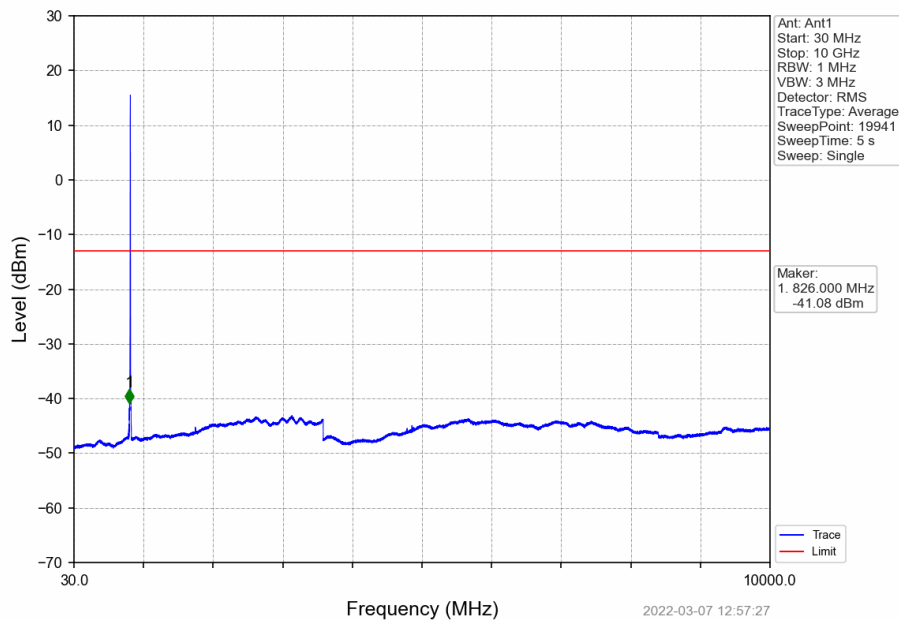
### Band5\_HSDPA\_LCH\_826.4MHz\_Subtest 1\_NTNV



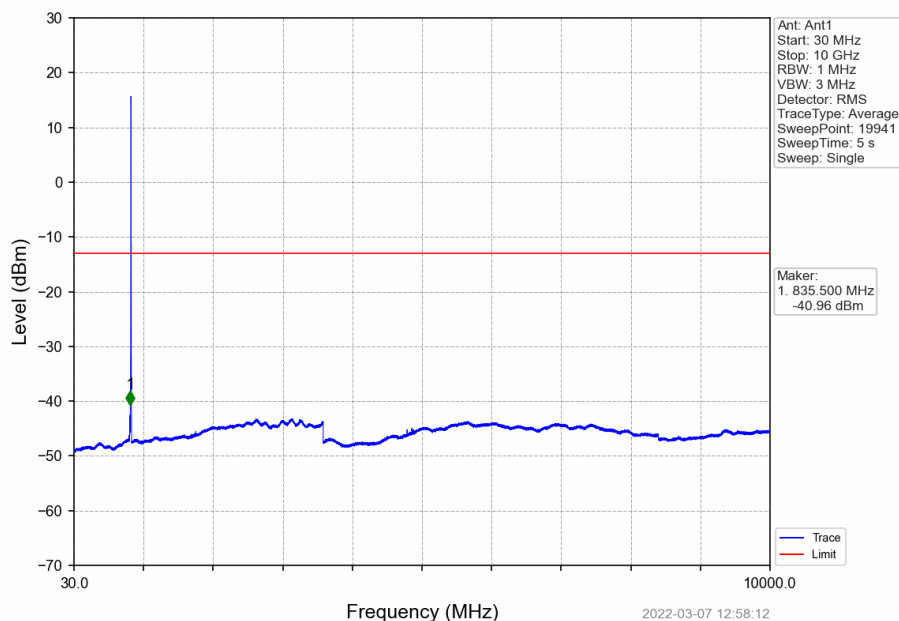
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### Band5\_HSDPA\_MCH\_836.6MHz\_Subtest 1\_NTNV



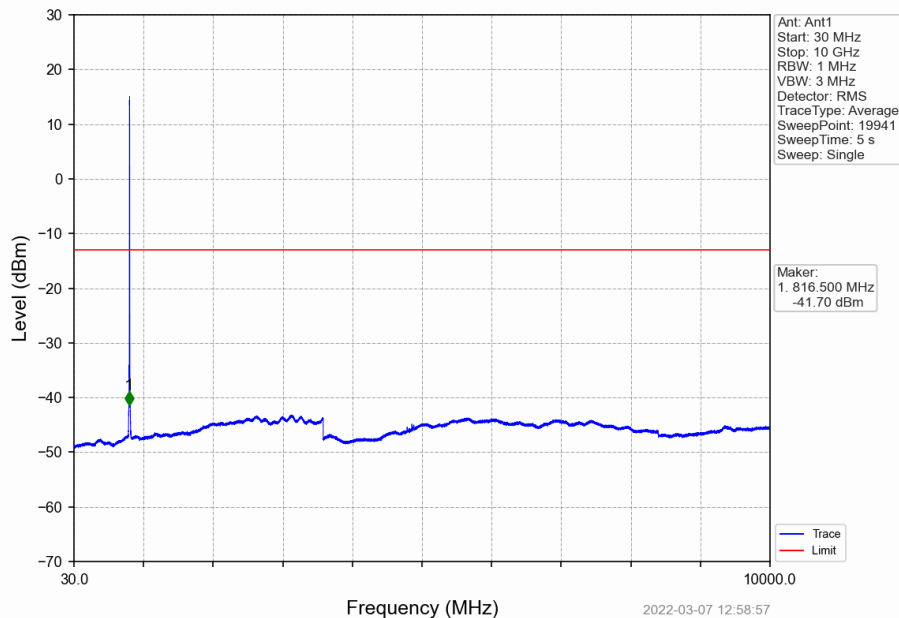
### Band5\_HSDPA\_HCH\_846.6MHz\_Subtest 1\_NTNV



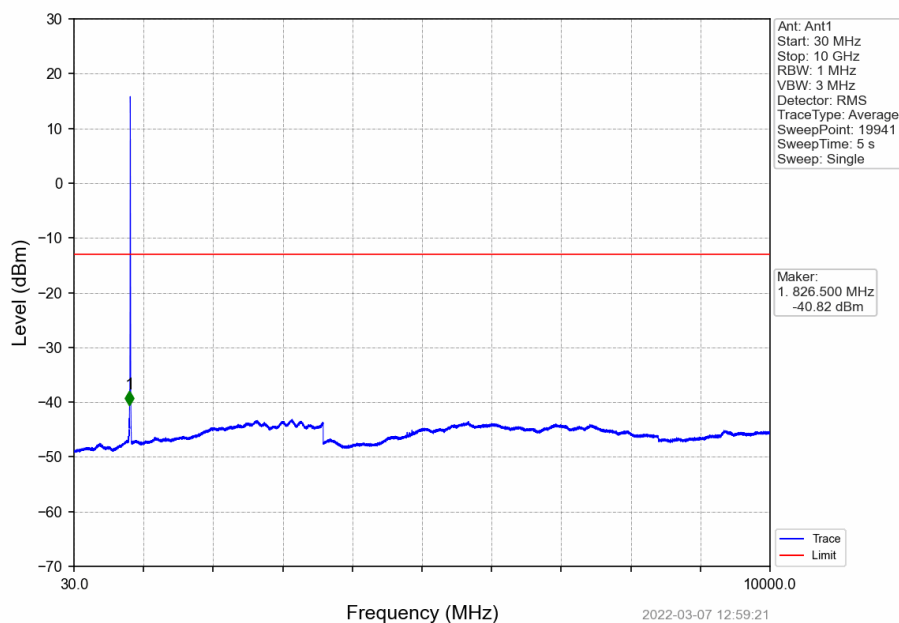
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### Band5\_HSUPA\_LCH\_826.4MHz\_Subtest 1\_NTNV



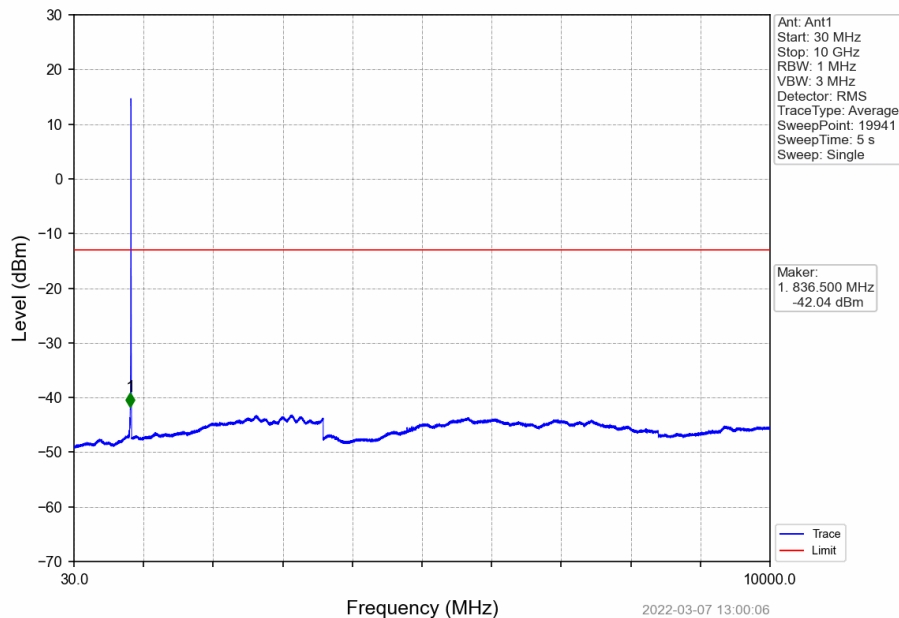
### Band5\_HSUPA\_MCH\_836.6MHz\_Subtest 1\_NTNV



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### Band5\_HSUPA\_HCH\_846.6MHz\_Subtest 1\_NTNV



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### 6.6 Field strength of spurious radiation

Test Requirement: \$2.1051, \$22.917, \$24.238, \$27.53(h)  
Test Method: ANSI C63.26, KDB 971168 D01 v03  
Limit:  $\leq -13\text{dBm}$

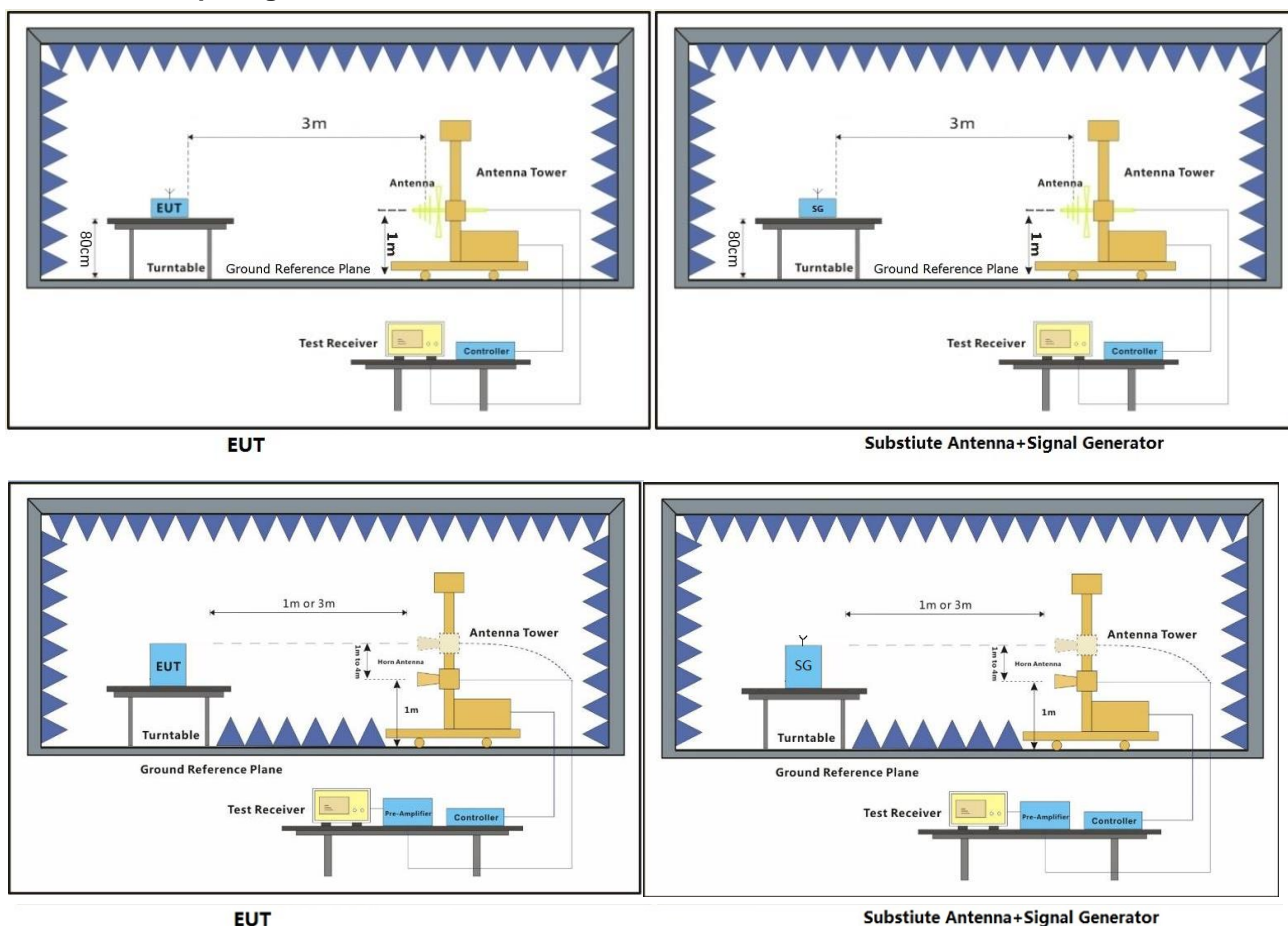
#### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 20: TX mode\_Keep the EUT in transmitting mode

#### 6.6.2 Test Setup Diagram



### 6.6.3 Measurement Procedure and Data

#### Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

WCDMA BAND V-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
1652.8	-61.15	-13	-50.3	-66.32	3.33	8.5	Horizontal	Pass
2479.2	-56.95	-13	-46.1	-63.95	3.4	10.4	Horizontal	Pass
3305.6	-53.63	-13	-42.78	-62.14	2.99	11.5	Horizontal	Pass
1652.8	-61.17	-13	-50.32	-66.34	3.33	8.5	Vertical	Pass
2479.2	-56.62	-13	-45.77	-63.62	3.4	10.4	Vertical	Pass
3305.6	-53.59	-13	-42.74	-62.1	2.99	11.5	Vertical	Pass

WCDMA BAND V-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
1672.8	-59.44	-13	-48.59	-64.61	3.33	8.5	Horizontal	Pass
2509.2	-56.88	-13	-46.03	-64.27	3.21	10.6	Horizontal	Pass
3345.6	-52.5	-13	-41.65	-61.01	2.99	11.5	Horizontal	Pass
1672.8	-61.55	-13	-50.7	-66.72	3.33	8.5	Vertical	Pass
2509.2	-57.3	-13	-46.45	-64.69	3.21	10.6	Vertical	Pass
3345.6	-53.7	-13	-42.85	-62.21	2.99	11.5	Vertical	Pass

WCDMA BAND V-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
1693.2	-60.96	-13	-50.11	-66.13	3.33	8.5	Horizontal	Pass
2539.8	-56.86	-13	-46.01	-64.25	3.21	10.6	Horizontal	Pass
3386.4	-53.09	-13	-42.24	-61.6	2.99	11.5	Horizontal	Pass
1693.2	-60.79	-13	-49.94	-65.96	3.33	8.5	Vertical	Pass
2539.8	-56.55	-13	-45.7	-63.94	3.21	10.6	Vertical	Pass
3386.4	-53.45	-13	-42.6	-61.96	2.99	11.5	Vertical	Pass



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WCDMA Band II-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
3704.8	-54.5	-13	-41.5	-64.18	2.92	12.6	Horizontal	Pass
5557.2	-51.73	-13	-38.73	-61.68	3.15	13.1	Horizontal	Pass
7409.6	-49.82	-13	-36.82	-58.12	3.4	11.7	Horizontal	Pass
3704.8	-55.22	-13	-42.22	-64.9	2.92	12.6	Vertical	Pass
5557.2	-51.51	-13	-38.51	-61.46	3.15	13.1	Vertical	Pass
7409.6	-49.63	-13	-36.63	-57.93	3.4	11.7	Vertical	Pass

WCDMA Band II-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
3760	-53.25	-13	-40.25	-62.93	2.92	12.6	Horizontal	Pass
5640	-51.66	-13	-38.66	-61.61	3.15	13.1	Horizontal	Pass
7520	-47.92	-13	-34.92	-55.47	3.85	11.4	Horizontal	Pass
3760	-53.81	-13	-40.81	-63.49	2.92	12.6	Vertical	Pass
5640	-51.89	-13	-38.89	-61.84	3.15	13.1	Vertical	Pass
7520	-48.13	-13	-35.13	-55.68	3.85	11.4	Vertical	Pass

WCDMA Band II-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
3815.2	-53.34	-13	-40.34	-63.02	2.92	12.6	Horizontal	Pass
5722.8	-51.9	-13	-38.9	-61.85	3.15	13.1	Horizontal	Pass
7630.4	-48.26	-13	-35.26	-55.81	3.85	11.4	Horizontal	Pass
3815.2	-53.42	-13	-40.42	-63.1	2.92	12.6	Vertical	Pass
5722.8	-51.45	-13	-38.45	-61.4	3.15	13.1	Vertical	Pass
7630.4	-48.97	-13	-35.97	-56.52	3.85	11.4	Vertical	Pass



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WCDMA Band IV-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	-54.17	-13	-41.17	-62.68	2.99	11.5	Horizontal	Pass
5137.2	-51.14	-13	-38.14	-60.84	3	12.7	Horizontal	Pass
6849.6	-50.23	-13	-37.23	-59.65	3.08	12.5	Horizontal	Pass
3424.8	-54.82	-13	-41.82	-63.33	2.99	11.5	Vertical	Pass
5137.2	-50.81	-13	-37.81	-60.51	3	12.7	Vertical	Pass
6849.6	-50.01	-13	-37.01	-59.43	3.08	12.5	Vertical	Pass

WCDMA Band IV-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	-54.25	-13	-41.25	-62.76	2.99	11.5	Horizontal	Pass
5197.8	-49.96	-13	-36.96	-59.66	3	12.7	Horizontal	Pass
6930.4	-49.96	-13	-36.96	-59.38	3.08	12.5	Horizontal	Pass
3465.2	-54.71	-13	-41.71	-63.22	2.99	11.5	Vertical	Pass
5197.8	-51.2	-13	-38.2	-60.9	3	12.7	Vertical	Pass
6930.4	-48.95	-13	-35.95	-58.37	3.08	12.5	Vertical	Pass

WCDMA Band IV-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	-54.29	-13	-41.29	-63.97	2.92	12.6	Horizontal	Pass
5257.8	-50.57	-13	-37.57	-60.27	3	12.7	Horizontal	Pass
7010.4	-49.62	-13	-36.62	-57.92	3.4	11.7	Horizontal	Pass
3505.2	-54.45	-13	-41.45	-64.13	2.92	12.6	Vertical	Pass
5257.8	-51.1	-13	-38.1	-60.8	3	12.7	Vertical	Pass
7010.4	-49.36	-13	-36.36	-57.66	3.4	11.7	Vertical	Pass

Note:

All modes have been tested and we found RMC Test mode has the worst test result. Only record the worst test result.



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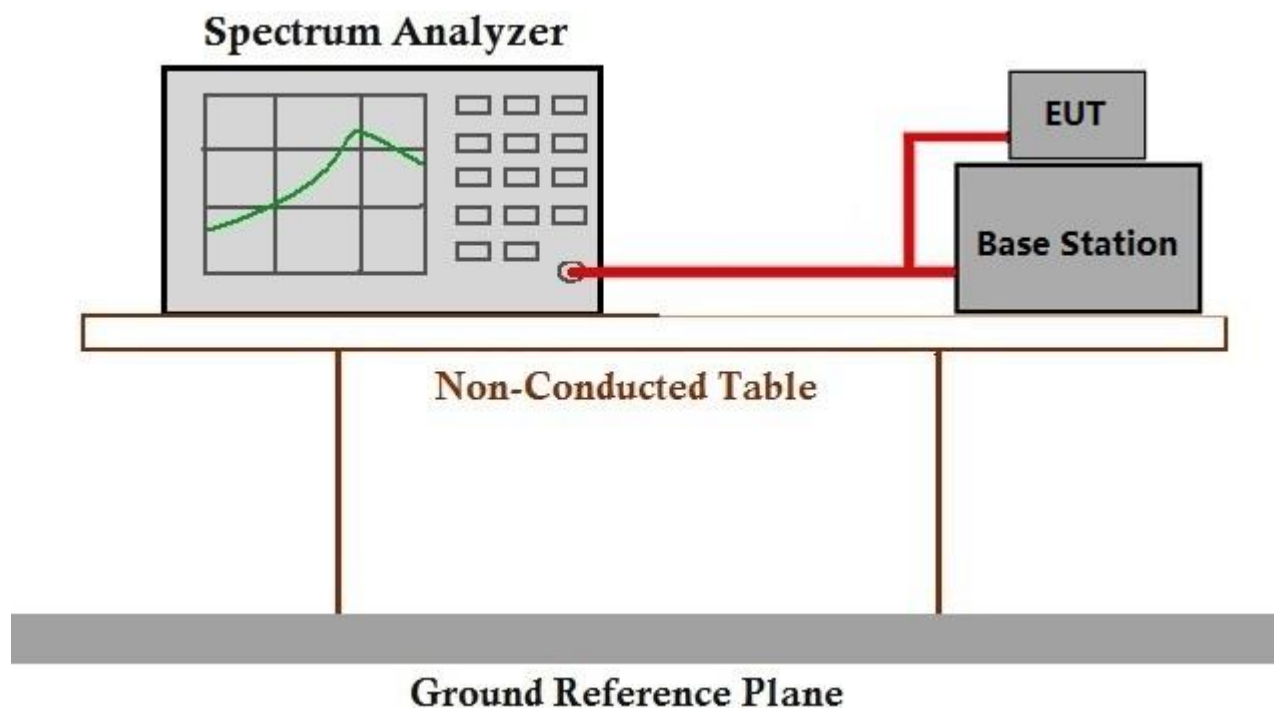
## 6.7 Frequency stability

Test Requirement: \$2.1055, \$22.355, \$24.235, \$27.54  
Test Method: ANSI C63.26, KDB 971168 D01 v03  
Limit:  $\leq \pm 2.5\text{ppm}$ .

### 6.7.1 E.U.T. Operation

Operating Environment:  
Temperature: 21.2 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
Test mode: 20: TX mode\_Keep the EUT in transmitting mode

### 6.7.2 Test Setup Diagram



### 6.7.3 Measurement Data



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Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.5	0.587	0.0003	-2.5 to 2.5	Pass
			3.8	0.780	0.0004	-2.5 to 2.5	Pass
			4.35	1.895	0.0010	-2.5 to 2.5	Pass
		-30	3.8	2.446	0.0013	-2.5 to 2.5	Pass
		-20	3.8	0.486	0.0003	-2.5 to 2.5	Pass
		-10	3.8	-0.987	-0.0005	-2.5 to 2.5	Pass
		0	3.8	-1.523	-0.0008	-2.5 to 2.5	Pass
		10	3.8	-2.332	-0.0013	-2.5 to 2.5	Pass
		30	3.8	-1.531	-0.0008	-2.5 to 2.5	Pass
		40	3.8	0.315	0.0002	-2.5 to 2.5	Pass
		50	3.8	-1.431	-0.0008	-2.5 to 2.5	Pass
	1880	20	3.5	-1.445	-0.0008	-2.5 to 2.5	Pass
			3.8	-1.287	-0.0007	-2.5 to 2.5	Pass
			4.35	-1.695	-0.0009	-2.5 to 2.5	Pass
		-30	3.8	-0.050	0.0000	-2.5 to 2.5	Pass
		-20	3.8	-0.644	-0.0003	-2.5 to 2.5	Pass
		-10	3.8	0.901	0.0005	-2.5 to 2.5	Pass
		0	3.8	0.865	0.0005	-2.5 to 2.5	Pass
		10	3.8	1.073	0.0006	-2.5 to 2.5	Pass
		30	3.8	1.881	0.0010	-2.5 to 2.5	Pass
		40	3.8	0.386	0.0002	-2.5 to 2.5	Pass
		50	3.8	-3.297	-0.0018	-2.5 to 2.5	Pass
	1907.6	20	3.5	9.670	0.0051	-2.5 to 2.5	Pass
			3.8	1.473	0.0008	-2.5 to 2.5	Pass
			4.35	0.958	0.0005	-2.5 to 2.5	Pass
		-30	3.8	1.588	0.0008	-2.5 to 2.5	Pass
		-20	3.8	2.911	0.0015	-2.5 to 2.5	Pass
		-10	3.8	10.378	0.0054	-2.5 to 2.5	Pass
		0	3.8	8.283	0.0043	-2.5 to 2.5	Pass
		10	3.8	8.705	0.0046	-2.5 to 2.5	Pass
		30	3.8	9.506	0.0050	-2.5 to 2.5	Pass
		40	3.8	8.633	0.0045	-2.5 to 2.5	Pass
		50	3.8	9.835	0.0052	-2.5 to 2.5	Pass
HSDPA	1852.4	20	3.5	16.086	0.0087	-2.5 to 2.5	Pass
			3.8	17.266	0.0093	-2.5 to 2.5	Pass



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			4.35	16.222	0.0088	-2.5 to 2.5	Pass
		-30	3.8	19.841	0.0107	-2.5 to 2.5	Pass
		-20	3.8	17.002	0.0092	-2.5 to 2.5	Pass
		-10	3.8	18.904	0.0102	-2.5 to 2.5	Pass
		0	3.8	19.262	0.0104	-2.5 to 2.5	Pass
		10	3.8	17.295	0.0093	-2.5 to 2.5	Pass
		30	3.8	16.894	0.0091	-2.5 to 2.5	Pass
		40	3.8	17.560	0.0095	-2.5 to 2.5	Pass
		50	3.8	18.203	0.0098	-2.5 to 2.5	Pass
	1880	20	3.5	20.392	0.0108	-2.5 to 2.5	Pass
			3.8	19.391	0.0103	-2.5 to 2.5	Pass
			4.35	20.857	0.0111	-2.5 to 2.5	Pass
		-30	3.8	18.961	0.0101	-2.5 to 2.5	Pass
		-20	3.8	19.877	0.0106	-2.5 to 2.5	Pass
		-10	3.8	20.728	0.0110	-2.5 to 2.5	Pass
		0	3.8	18.847	0.0100	-2.5 to 2.5	Pass
		10	3.8	18.790	0.0100	-2.5 to 2.5	Pass
		30	3.8	18.611	0.0099	-2.5 to 2.5	Pass
		40	3.8	20.421	0.0109	-2.5 to 2.5	Pass
		50	3.8	19.326	0.0103	-2.5 to 2.5	Pass
	1907.6	20	3.5	18.804	0.0099	-2.5 to 2.5	Pass
			3.8	18.153	0.0095	-2.5 to 2.5	Pass
			4.35	17.209	0.0090	-2.5 to 2.5	Pass
		-30	3.8	18.661	0.0098	-2.5 to 2.5	Pass
		-20	3.8	17.724	0.0093	-2.5 to 2.5	Pass
		-10	3.8	18.339	0.0096	-2.5 to 2.5	Pass
		0	3.8	18.775	0.0098	-2.5 to 2.5	Pass
		10	3.8	19.147	0.0100	-2.5 to 2.5	Pass
		30	3.8	18.618	0.0098	-2.5 to 2.5	Pass
		40	3.8	19.355	0.0101	-2.5 to 2.5	Pass
		50	3.8	17.631	0.0092	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.5	-10.664	-0.0058	-2.5 to 2.5	Pass
			3.8	-9.778	-0.0053	-2.5 to 2.5	Pass
			4.35	-4.935	-0.0027	-2.5 to 2.5	Pass
		-30	3.8	-3.548	-0.0019	-2.5 to 2.5	Pass
		-20	3.8	-9.077	-0.0049	-2.5 to 2.5	Pass
		-10	3.8	-5.043	-0.0027	-2.5 to 2.5	Pass
		0	3.8	-9.491	-0.0051	-2.5 to 2.5	Pass
		10	3.8	-5.693	-0.0031	-2.5 to 2.5	Pass



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		30	3.8	-11.559	-0.0062	-2.5 to 2.5	Pass
		40	3.8	-6.115	-0.0033	-2.5 to 2.5	Pass
		50	3.8	-6.266	-0.0034	-2.5 to 2.5	Pass
	1880	20	3.5	-3.562	-0.0019	-2.5 to 2.5	Pass
			3.8	1.945	0.0010	-2.5 to 2.5	Pass
			4.35	-1.330	-0.0007	-2.5 to 2.5	Pass
		-30	3.8	1.166	0.0006	-2.5 to 2.5	Pass
		-20	3.8	6.516	0.0035	-2.5 to 2.5	Pass
		-10	3.8	-6.144	-0.0033	-2.5 to 2.5	Pass
		0	3.8	2.382	0.0013	-2.5 to 2.5	Pass
		10	3.8	-7.346	-0.0039	-2.5 to 2.5	Pass
		30	3.8	4.435	0.0024	-2.5 to 2.5	Pass
		40	3.8	-0.572	-0.0003	-2.5 to 2.5	Pass
		50	3.8	6.280	0.0033	-2.5 to 2.5	Pass
	1907.6	20	3.5	-9.463	-0.0050	-2.5 to 2.5	Pass
			3.8	-15.314	-0.0080	-2.5 to 2.5	Pass
			4.35	-3.397	-0.0018	-2.5 to 2.5	Pass
		-30	3.8	-3.819	-0.0020	-2.5 to 2.5	Pass
		-20	3.8	-4.227	-0.0022	-2.5 to 2.5	Pass
		-10	3.8	-8.240	-0.0043	-2.5 to 2.5	Pass
		0	3.8	-12.174	-0.0064	-2.5 to 2.5	Pass
		10	3.8	-4.084	-0.0021	-2.5 to 2.5	Pass
		30	3.8	-9.420	-0.0049	-2.5 to 2.5	Pass
		40	3.8	-12.596	-0.0066	-2.5 to 2.5	Pass
		50	3.8	-8.168	-0.0043	-2.5 to 2.5	Pass



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Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.5	1.981	0.0012	-2.5 to 2.5	Pass
			3.8	1.202	0.0007	-2.5 to 2.5	Pass
			4.35	1.538	0.0009	-2.5 to 2.5	Pass
		-30	3.8	2.582	0.0015	-2.5 to 2.5	Pass
		-20	3.8	1.516	0.0009	-2.5 to 2.5	Pass
		-10	3.8	1.724	0.0010	-2.5 to 2.5	Pass
		0	3.8	0.901	0.0005	-2.5 to 2.5	Pass
		10	3.8	1.731	0.0010	-2.5 to 2.5	Pass
		30	3.8	1.760	0.0010	-2.5 to 2.5	Pass
		40	3.8	0.694	0.0004	-2.5 to 2.5	Pass
		50	3.8	0.715	0.0004	-2.5 to 2.5	Pass
	1732.6	20	3.5	0.629	0.0004	-2.5 to 2.5	Pass
			3.8	0.930	0.0005	-2.5 to 2.5	Pass
			4.35	1.423	0.0008	-2.5 to 2.5	Pass
		-30	3.8	1.652	0.0010	-2.5 to 2.5	Pass
		-20	3.8	0.601	0.0003	-2.5 to 2.5	Pass
		-10	3.8	0.772	0.0004	-2.5 to 2.5	Pass
		0	3.8	-0.880	-0.0005	-2.5 to 2.5	Pass
		10	3.8	-1.445	-0.0008	-2.5 to 2.5	Pass
		30	3.8	-1.853	-0.0011	-2.5 to 2.5	Pass
		40	3.8	-1.245	-0.0007	-2.5 to 2.5	Pass
		50	3.8	-1.259	-0.0007	-2.5 to 2.5	Pass
	1752.6	20	3.5	-2.189	-0.0012	-2.5 to 2.5	Pass
			3.8	-3.612	-0.0021	-2.5 to 2.5	Pass
			4.35	-1.788	-0.0010	-2.5 to 2.5	Pass
		-30	3.8	-1.202	-0.0007	-2.5 to 2.5	Pass
		-20	3.8	-2.897	-0.0017	-2.5 to 2.5	Pass
		-10	3.8	-1.287	-0.0007	-2.5 to 2.5	Pass
		0	3.8	-2.439	-0.0014	-2.5 to 2.5	Pass
		10	3.8	-2.089	-0.0012	-2.5 to 2.5	Pass
		30	3.8	-1.416	-0.0008	-2.5 to 2.5	Pass
		40	3.8	-1.767	-0.0010	-2.5 to 2.5	Pass
		50	3.8	-1.609	-0.0009	-2.5 to 2.5	Pass
HSDPA	1712.4	20	3.5	7.832	0.0046	-2.5 to 2.5	Pass
			3.8	6.452	0.0038	-2.5 to 2.5	Pass



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			4.35	6.802	0.0040	-2.5 to 2.5	Pass
		-30	3.8	6.337	0.0037	-2.5 to 2.5	Pass
		-20	3.8	7.381	0.0043	-2.5 to 2.5	Pass
		-10	3.8	6.123	0.0036	-2.5 to 2.5	Pass
		0	3.8	7.296	0.0043	-2.5 to 2.5	Pass
		10	3.8	6.201	0.0036	-2.5 to 2.5	Pass
		30	3.8	6.673	0.0039	-2.5 to 2.5	Pass
		40	3.8	6.151	0.0036	-2.5 to 2.5	Pass
		50	3.8	6.316	0.0037	-2.5 to 2.5	Pass
	1732.6	20	3.5	7.861	0.0045	-2.5 to 2.5	Pass
			3.8	6.452	0.0037	-2.5 to 2.5	Pass
			4.35	7.467	0.0043	-2.5 to 2.5	Pass
		-30	3.8	7.095	0.0041	-2.5 to 2.5	Pass
		-20	3.8	7.832	0.0045	-2.5 to 2.5	Pass
		-10	3.8	6.652	0.0038	-2.5 to 2.5	Pass
		0	3.8	6.931	0.0040	-2.5 to 2.5	Pass
		10	3.8	6.845	0.0040	-2.5 to 2.5	Pass
		30	3.8	7.167	0.0041	-2.5 to 2.5	Pass
		40	3.8	7.153	0.0041	-2.5 to 2.5	Pass
		50	3.8	7.002	0.0040	-2.5 to 2.5	Pass
	1752.6	20	3.5	6.859	0.0039	-2.5 to 2.5	Pass
			3.8	6.094	0.0035	-2.5 to 2.5	Pass
			4.35	7.424	0.0042	-2.5 to 2.5	Pass
		-30	3.8	5.257	0.0030	-2.5 to 2.5	Pass
		-20	3.8	6.001	0.0034	-2.5 to 2.5	Pass
		-10	3.8	5.901	0.0034	-2.5 to 2.5	Pass
		0	3.8	7.203	0.0041	-2.5 to 2.5	Pass
		10	3.8	7.503	0.0043	-2.5 to 2.5	Pass
		30	3.8	5.350	0.0031	-2.5 to 2.5	Pass
		40	3.8	5.178	0.0030	-2.5 to 2.5	Pass
		50	3.8	5.901	0.0034	-2.5 to 2.5	Pass
HSUPA	1712.4	20	3.5	-10.564	-0.0062	-2.5 to 2.5	Pass
			3.8	-9.356	-0.0055	-2.5 to 2.5	Pass
			4.35	-9.692	-0.0057	-2.5 to 2.5	Pass
		-30	3.8	-9.735	-0.0057	-2.5 to 2.5	Pass
		-20	3.8	-9.069	-0.0053	-2.5 to 2.5	Pass
		-10	3.8	-8.934	-0.0052	-2.5 to 2.5	Pass
		0	3.8	-9.334	-0.0055	-2.5 to 2.5	Pass
		10	3.8	-8.676	-0.0051	-2.5 to 2.5	Pass



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		30	3.8	-13.032	-0.0076	-2.5 to 2.5	Pass
		40	3.8	-8.698	-0.0051	-2.5 to 2.5	Pass
		50	3.8	-13.719	-0.0080	-2.5 to 2.5	Pass
	1732.6	20	3.5	-11.601	-0.0067	-2.5 to 2.5	Pass
			3.8	-14.133	-0.0082	-2.5 to 2.5	Pass
			4.35	-10.407	-0.0060	-2.5 to 2.5	Pass
		-30	3.8	-13.883	-0.0080	-2.5 to 2.5	Pass
		-20	3.8	-9.091	-0.0052	-2.5 to 2.5	Pass
		-10	3.8	-13.869	-0.0080	-2.5 to 2.5	Pass
		0	3.8	-7.131	-0.0041	-2.5 to 2.5	Pass
		10	3.8	-11.902	-0.0069	-2.5 to 2.5	Pass
		30	3.8	-8.025	-0.0046	-2.5 to 2.5	Pass
		40	3.8	-7.896	-0.0046	-2.5 to 2.5	Pass
		50	3.8	-12.496	-0.0072	-2.5 to 2.5	Pass
	1752.6	20	3.5	-12.760	-0.0073	-2.5 to 2.5	Pass
			3.8	-14.606	-0.0083	-2.5 to 2.5	Pass
			4.35	-9.906	-0.0057	-2.5 to 2.5	Pass
		-30	3.8	-15.464	-0.0088	-2.5 to 2.5	Pass
		-20	3.8	-11.051	-0.0063	-2.5 to 2.5	Pass
		-10	3.8	-11.516	-0.0066	-2.5 to 2.5	Pass
		0	3.8	-13.075	-0.0075	-2.5 to 2.5	Pass
		10	3.8	-11.458	-0.0065	-2.5 to 2.5	Pass
		30	3.8	-11.308	-0.0065	-2.5 to 2.5	Pass
		40	3.8	-16.444	-0.0094	-2.5 to 2.5	Pass
		50	3.8	-11.551	-0.0066	-2.5 to 2.5	Pass



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Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.5	-1.037	-0.0013	-2.5 to 2.5	Pass
			3.8	-1.016	-0.0012	-2.5 to 2.5	Pass
			4.35	-1.509	-0.0018	-2.5 to 2.5	Pass
		-30	3.8	-0.916	-0.0011	-2.5 to 2.5	Pass
		-20	3.8	-0.637	-0.0008	-2.5 to 2.5	Pass
		-10	3.8	-1.237	-0.0015	-2.5 to 2.5	Pass
		0	3.8	-1.473	-0.0018	-2.5 to 2.5	Pass
		10	3.8	-0.365	-0.0004	-2.5 to 2.5	Pass
		30	3.8	-0.730	-0.0009	-2.5 to 2.5	Pass
		40	3.8	-1.023	-0.0012	-2.5 to 2.5	Pass
		50	3.8	-0.286	-0.0003	-2.5 to 2.5	Pass
	836.6	20	3.5	-1.423	-0.0017	-2.5 to 2.5	Pass
			3.8	-0.114	-0.0001	-2.5 to 2.5	Pass
			4.35	-0.558	-0.0007	-2.5 to 2.5	Pass
		-30	3.8	-0.687	-0.0008	-2.5 to 2.5	Pass
		-20	3.8	-0.250	-0.0003	-2.5 to 2.5	Pass
		-10	3.8	-1.295	-0.0015	-2.5 to 2.5	Pass
		0	3.8	-1.466	-0.0018	-2.5 to 2.5	Pass
		10	3.8	-0.308	-0.0004	-2.5 to 2.5	Pass
		30	3.8	-0.637	-0.0008	-2.5 to 2.5	Pass
		40	3.8	-0.465	-0.0006	-2.5 to 2.5	Pass
		50	3.8	-0.315	-0.0004	-2.5 to 2.5	Pass
	846.6	20	3.5	0.672	0.0008	-2.5 to 2.5	Pass
			3.8	0.179	0.0002	-2.5 to 2.5	Pass
			4.35	-0.207	-0.0002	-2.5 to 2.5	Pass
		-30	3.8	0.165	0.0002	-2.5 to 2.5	Pass
		-20	3.8	0.565	0.0007	-2.5 to 2.5	Pass
		-10	3.8	0.572	0.0007	-2.5 to 2.5	Pass
		0	3.8	1.051	0.0012	-2.5 to 2.5	Pass
		10	3.8	1.202	0.0014	-2.5 to 2.5	Pass
		30	3.8	0.966	0.0011	-2.5 to 2.5	Pass
		40	3.8	1.395	0.0016	-2.5 to 2.5	Pass
		50	3.8	1.581	0.0019	-2.5 to 2.5	Pass
HSDPA	826.4	20	3.5	3.211	0.0039	-2.5 to 2.5	Pass
			3.8	2.553	0.0031	-2.5 to 2.5	Pass



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			4.35	2.046	0.0025	-2.5 to 2.5	Pass
		-30	3.8	1.802	0.0022	-2.5 to 2.5	Pass
		-20	3.8	2.067	0.0025	-2.5 to 2.5	Pass
		-10	3.8	1.566	0.0019	-2.5 to 2.5	Pass
		0	3.8	1.831	0.0022	-2.5 to 2.5	Pass
		10	3.8	1.652	0.0020	-2.5 to 2.5	Pass
		30	3.8	1.273	0.0015	-2.5 to 2.5	Pass
		40	3.8	1.273	0.0015	-2.5 to 2.5	Pass
		50	3.8	1.781	0.0022	-2.5 to 2.5	Pass
	836.6	20	3.5	2.239	0.0027	-2.5 to 2.5	Pass
			3.8	1.509	0.0018	-2.5 to 2.5	Pass
			4.35	0.880	0.0011	-2.5 to 2.5	Pass
		-30	3.8	1.838	0.0022	-2.5 to 2.5	Pass
		-20	3.8	1.767	0.0021	-2.5 to 2.5	Pass
		-10	3.8	1.767	0.0021	-2.5 to 2.5	Pass
		0	3.8	1.173	0.0014	-2.5 to 2.5	Pass
		10	3.8	1.667	0.0020	-2.5 to 2.5	Pass
		30	3.8	1.981	0.0024	-2.5 to 2.5	Pass
		40	3.8	2.317	0.0028	-2.5 to 2.5	Pass
		50	3.8	1.502	0.0018	-2.5 to 2.5	Pass
	846.6	20	3.5	4.392	0.0052	-2.5 to 2.5	Pass
			3.8	4.313	0.0051	-2.5 to 2.5	Pass
			4.35	3.712	0.0044	-2.5 to 2.5	Pass
		-30	3.8	3.805	0.0045	-2.5 to 2.5	Pass
		-20	3.8	3.920	0.0046	-2.5 to 2.5	Pass
		-10	3.8	4.020	0.0047	-2.5 to 2.5	Pass
		0	3.8	4.005	0.0047	-2.5 to 2.5	Pass
		10	3.8	3.719	0.0044	-2.5 to 2.5	Pass
		30	3.8	3.991	0.0047	-2.5 to 2.5	Pass
		40	3.8	4.091	0.0048	-2.5 to 2.5	Pass
		50	3.8	4.249	0.0050	-2.5 to 2.5	Pass
	HSUPA	826.4	3.5	-2.632	-0.0032	-2.5 to 2.5	Pass
			3.8	-3.726	-0.0045	-2.5 to 2.5	Pass
			4.35	-4.499	-0.0054	-2.5 to 2.5	Pass
		-30	3.8	-5.643	-0.0068	-2.5 to 2.5	Pass
		-20	3.8	-3.970	-0.0048	-2.5 to 2.5	Pass
		-10	3.8	-5.250	-0.0064	-2.5 to 2.5	Pass
		0	3.8	-3.827	-0.0046	-2.5 to 2.5	Pass
		10	3.8	-4.041	-0.0049	-2.5 to 2.5	Pass



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		30	3.8	-3.769	-0.0046	-2.5 to 2.5	Pass
		40	3.8	-3.955	-0.0048	-2.5 to 2.5	Pass
		50	3.8	-3.712	-0.0045	-2.5 to 2.5	Pass
	836.6	20	3.5	-3.619	-0.0043	-2.5 to 2.5	Pass
			3.8	-4.857	-0.0058	-2.5 to 2.5	Pass
			4.35	-4.756	-0.0057	-2.5 to 2.5	Pass
		-30	3.8	-4.807	-0.0057	-2.5 to 2.5	Pass
		-20	3.8	-4.234	-0.0051	-2.5 to 2.5	Pass
		-10	3.8	-6.809	-0.0081	-2.5 to 2.5	Pass
		0	3.8	-4.921	-0.0059	-2.5 to 2.5	Pass
		10	3.8	-6.630	-0.0079	-2.5 to 2.5	Pass
		30	3.8	-7.210	-0.0086	-2.5 to 2.5	Pass
		40	3.8	-5.021	-0.0060	-2.5 to 2.5	Pass
		50	3.8	-6.530	-0.0078	-2.5 to 2.5	Pass
	846.6	20	3.5	-0.079	-0.0001	-2.5 to 2.5	Pass
			3.8	-1.724	-0.0020	-2.5 to 2.5	Pass
			4.35	-1.116	-0.0013	-2.5 to 2.5	Pass
		-30	3.8	-2.425	-0.0029	-2.5 to 2.5	Pass
		-20	3.8	-1.295	-0.0015	-2.5 to 2.5	Pass
		-10	3.8	-1.252	-0.0015	-2.5 to 2.5	Pass
		0	3.8	-0.987	-0.0012	-2.5 to 2.5	Pass
		10	3.8	-1.252	-0.0015	-2.5 to 2.5	Pass
		30	3.8	-2.267	-0.0027	-2.5 to 2.5	Pass
		40	3.8	-0.737	-0.0009	-2.5 to 2.5	Pass
		50	3.8	-2.067	-0.0024	-2.5 to 2.5	Pass



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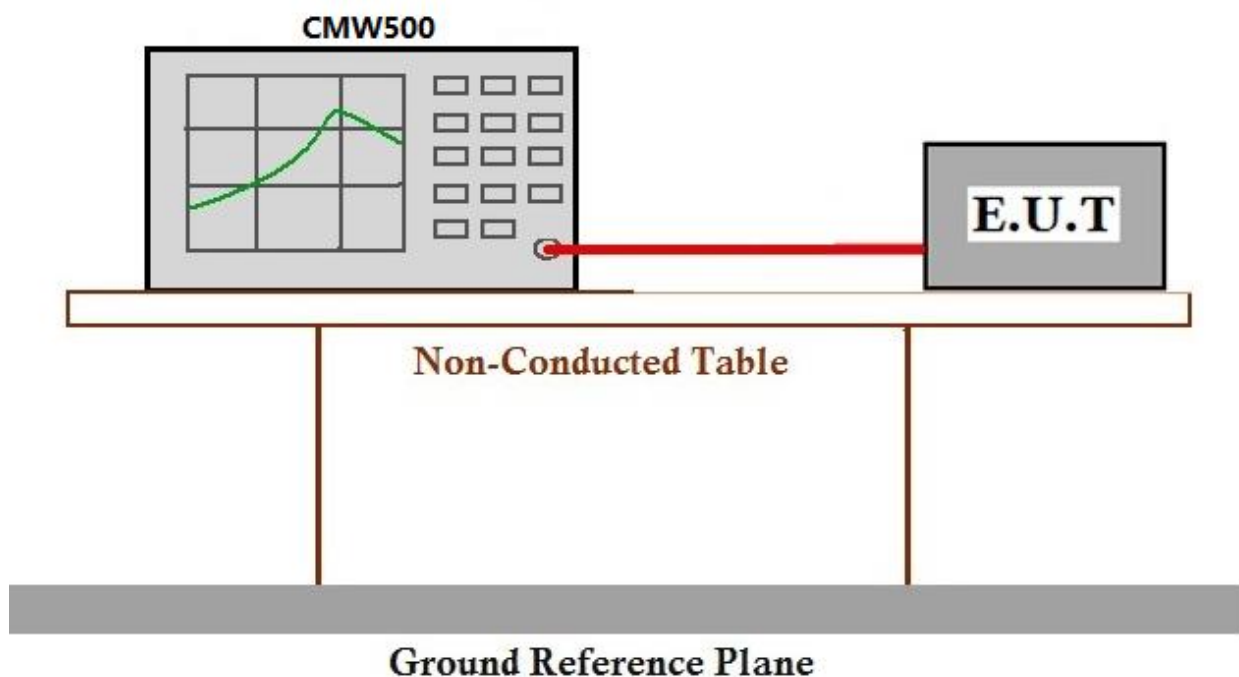
### 6.8 Modulation Characteristics

Test Requirement: §2.1047  
Test Method: ANSI C63.26, KDB 971168 D01 v03  
Limit: Digital modulation

#### 6.8.1 E.U.T. Operation

Operating Environment:  
Temperature: 21.2 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
Test mode: 20: TX mode\_Keep the EUT in transmitting mode

#### 6.8.2 Test Setup Diagram



#### 6.8.3 Measurement Data

Pass, it's a digital modulation device.

## 7 Photographs

### 7.1 Test Setup Photos

Refer to Appendix - MIMO PHONE 2G3G4G Test Setup Photo for GZCR2202000223AT.

### 7.2 EUT Constructional Details (EUT Photos)

Refer to Appendix - MIMO PHONE External and Internal Photos for GZCR2202000223AT.

- End of the Report -