

Appendix B

Test Information:

|             |            |              |                       |
|-------------|------------|--------------|-----------------------|
| Serial No.: | 2MPD-1     | Test Date:   | 2024/07/21~2024/07/23 |
| Test Site:  | RF         | Test Mode:   | Transmitting          |
| Tester:     | Karl Liang | Test Result: | Pass                  |

Environmental Conditions:

|                      |           |                           |       |                        |             |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature:<br>(℃): | 27.8~28.0 | Relative Humidity:<br>(%) | 51~64 | ATM Pressure:<br>(kPa) | 100.2~100.8 |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|

Test Equipment List and Details:

| Manufacturer | Description                               | Model        | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------------------------------|--------------|---------------|------------------|----------------------|
| Micro-Coax   | Coaxial Cable                             | UFB205A      | 323308-024    | 2024/01/02       | 2025/01/01           |
| Minl-Clruits | Coaxial Power<br>Splitters &<br>Combiner  | ZFRSC-183-S+ | SF448201614   | 2024/02/25       | 2025/02/24           |
| BACL         | TEMP&HUMI Test<br>Chamber                 | BTH-150-40   | 30173         | 2023/10/18       | 2024/10/17           |
| TDK-Lambda   | DC Power Supply                           | Z+60-14      | F-08-EM038-1  | N/A              | N/A                  |
| R&S          | Wideband Radio<br>Communication<br>Tester | CMW500       | 149216        | 2023/10/18       | 2024/10/17           |
| All-sun      | Clamp Meter                               | EM305A       | 8348897       | 2023/08/03       | 2024/08/02           |
| R&S          | Spectrum Analyzer                         | FSV40        | 101461        | 2023/11/27       | 2024/11/26           |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Frequency stability vs. temperature &Frequency stability vs. voltage Compliance

FCC Part 22H

Band 5

| Mode             | Frequency Error<br>(Hz) | Frequency Error<br>(ppm) | Limit<br>(ppm) | Result |
|------------------|-------------------------|--------------------------|----------------|--------|
| R99_Middle_TN/VN | -8.6                    | -0.010                   | ±2.5           | Pass   |
| R99_Middle_T1/VN | -6.4                    | -0.008                   | ±2.5           | Pass   |
| R99_Middle_T2/VN | -10.8                   | -0.013                   | ±2.5           | Pass   |
| R99_Middle_T3/VN | -10.3                   | -0.012                   | ±2.5           | Pass   |
| R99_Middle_T4/VN | -11.2                   | -0.013                   | ±2.5           | Pass   |
| R99_Middle_T5/VN | -10.6                   | -0.013                   | ±2.5           | Pass   |
| R99_Middle_T6/VN | -9.7                    | -0.012                   | ±2.5           | Pass   |
| R99_Middle_T7/VN | -11.4                   | -0.014                   | ±2.5           | Pass   |
| R99_Middle_T8/VN | -8.7                    | -0.010                   | ±2.5           | Pass   |
| R99_Middle_TN/VH | -11.3                   | -0.014                   | ±2.5           | Pass   |
| R99_Middle_TN/VL | -9.7                    | -0.012                   | ±2.5           | Pass   |

Note:

Frequency Error (ppm)=Frequency Error (MHz)/Test Channel(MHz)

TN: 20 ℃; T1: -30 ℃; T2: -20 ℃; T3: -10 ℃; T4: 0 ℃; T5: 10 ℃; T6: 30 ℃; T7: 40 ℃; T8: 50 ℃.

VN: Normal Voltage; VL: Low Voltage; VH: High Voltage.

Occupied Bandwidth

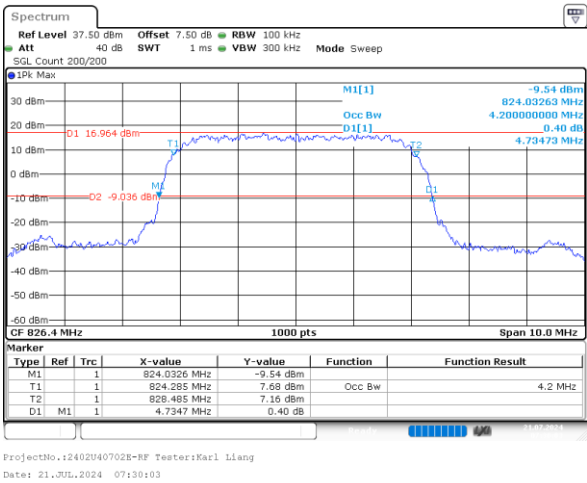
FCC Part 22H

Band 5 , Normal

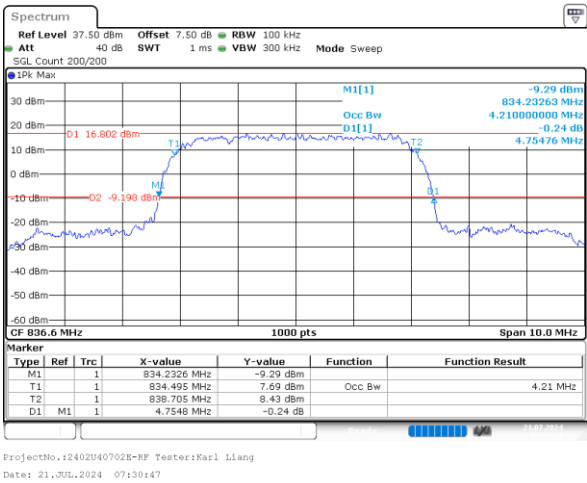
| Mode                  | 99% OBW<br>(MHz) | EBW<br>(MHz) |
|-----------------------|------------------|--------------|
| R99_Low               | 4.200            | 4.735        |
| R99_Middle            | 4.210            | 4.755        |
| R99_High              | 4.170            | 4.735        |
| HSDPA_Low_Subtest1    | 4.190            | 4.725        |
| HSDPA_Middle_Subtest1 | 4.170            | 4.725        |
| HSDPA_High_Subtest1   | 4.160            | 4.715        |
| HSUPA_Low_Subtest1    | 4.170            | 4.715        |
| HSUPA_Middle_Subtest1 | 4.170            | 4.725        |
| HSUPA_High_Subtest1   | 4.180            | 4.735        |

Band 5 , Normal

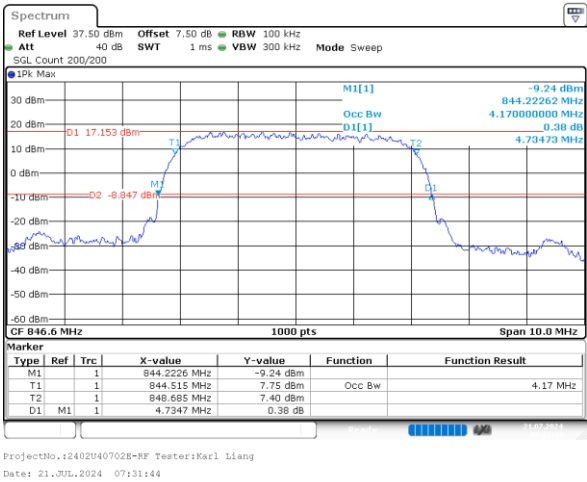
R99\_Low 4.200MHz



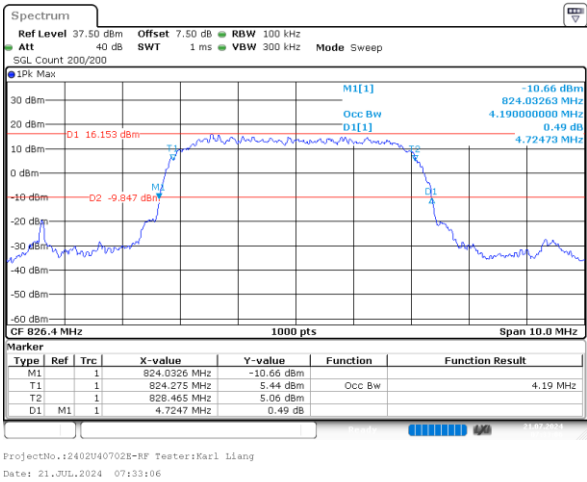
R99\_Middle 4.210MHz



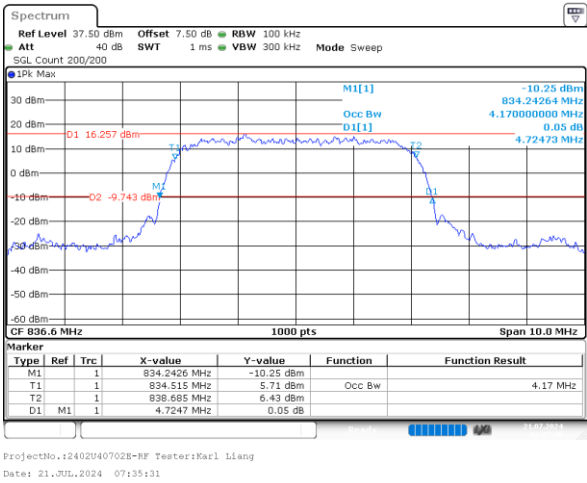
R99\_High 4.170MHz



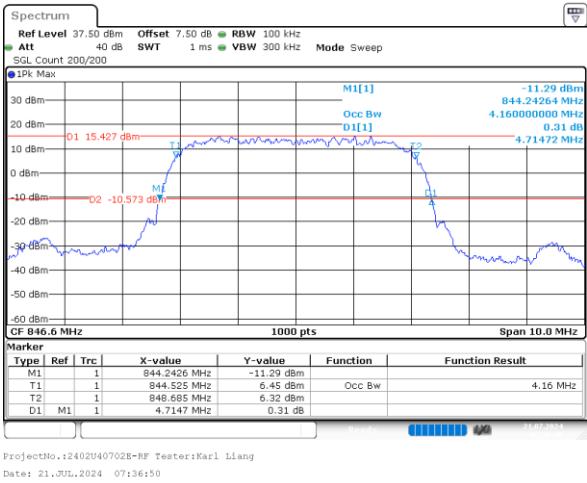
HSDPA\_Low\_Subtest1 4.190MHz



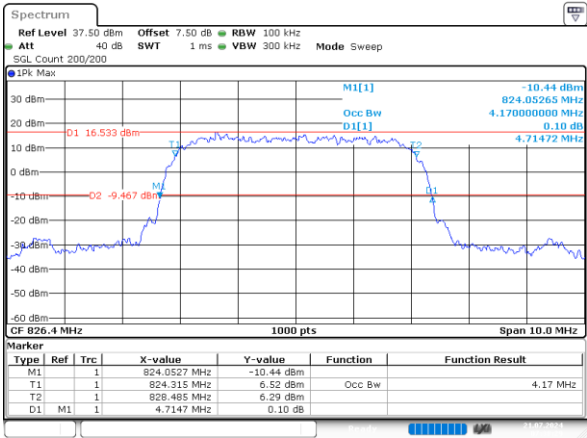
HSDPA\_Middle\_Subtest1 4.170MHz



HSDPA\_High\_Subtest1 4.160MHz

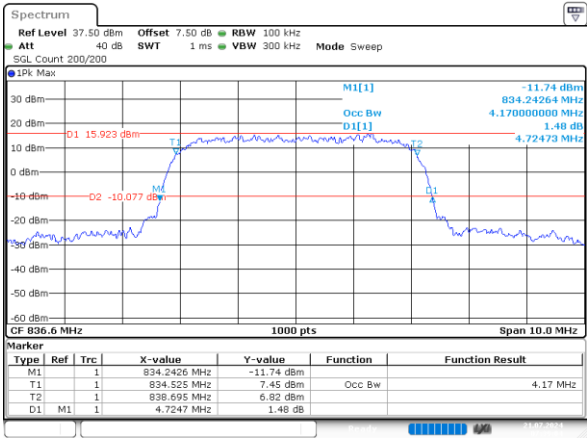


HSUPA\_Low\_Subtest1 4.170MHz



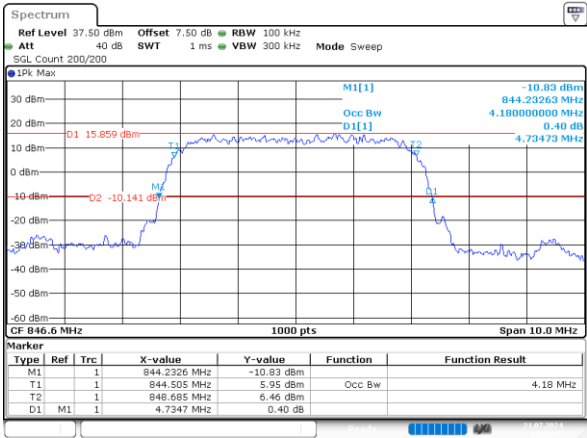
ProjectNo.:2402U40702E-RF Tester:Karl Liang  
Date: 21.JUL.2024 07:38:30

HSUPA\_Middle\_Subtest1 4.170MHz



ProjectNo.:2402U40702E-RF Tester:Karl Liang  
Date: 21.JUL.2024 07:39:05

HSUPA\_High\_Subtest1 4.180MHz



ProjectNo.:2402U40702E-RF Tester:Karl Liang  
Date: 21.JUL.2024 07:39:41

RF Output Power

FCC Part 22H

Band 5 , Normal

| Mode                  | Conducted Power<br>(dBm) | ERP<br>(dBm) | Limit<br>(dBm) | Result |
|-----------------------|--------------------------|--------------|----------------|--------|
| R99_Low               | 23.84                    | 19.280       | 38.45          | Pass   |
| R99_Middle            | 23.84                    | 19.280       | 38.45          | Pass   |
| R99_High              | 24.05                    | 19.490       | 38.45          | Pass   |
| HSDPA_Low_Subtest1    | 21.42                    | 16.860       | 38.45          | Pass   |
| HSDPA_Low_Subtest2    | 21.27                    | 16.710       | 38.45          | Pass   |
| HSDPA_Low_Subtest3    | 21.21                    | 16.650       | 38.45          | Pass   |
| HSDPA_Low_Subtest4    | 21.21                    | 16.650       | 38.45          | Pass   |
| HSDPA_Middle_Subtest1 | 20.94                    | 16.380       | 38.45          | Pass   |
| HSDPA_Middle_Subtest2 | 21.28                    | 16.720       | 38.45          | Pass   |
| HSDPA_Middle_Subtest3 | 21.23                    | 16.670       | 38.45          | Pass   |
| HSDPA_Middle_Subtest4 | 21.25                    | 16.690       | 38.45          | Pass   |
| HSDPA_High_Subtest1   | 21.07                    | 16.510       | 38.45          | Pass   |
| HSDPA_High_Subtest2   | 21.51                    | 16.950       | 38.45          | Pass   |
| HSDPA_High_Subtest3   | 21.46                    | 16.900       | 38.45          | Pass   |
| HSDPA_High_Subtest4   | 21.44                    | 16.880       | 38.45          | Pass   |
| HSUPA_Low_Subtest1    | 22.60                    | 18.040       | 38.45          | Pass   |
| HSUPA_Low_Subtest2    | 22.62                    | 18.060       | 38.45          | Pass   |
| HSUPA_Low_Subtest3    | 22.60                    | 18.040       | 38.45          | Pass   |
| HSUPA_Low_Subtest4    | 22.61                    | 18.050       | 38.45          | Pass   |
| HSUPA_Low_Subtest5    | 22.62                    | 18.060       | 38.45          | Pass   |
| HSUPA_Middle_Subtest1 | 22.33                    | 17.770       | 38.45          | Pass   |
| HSUPA_Middle_Subtest2 | 22.34                    | 17.780       | 38.45          | Pass   |
| HSUPA_Middle_Subtest3 | 22.34                    | 17.780       | 38.45          | Pass   |
| HSUPA_Middle_Subtest4 | 22.34                    | 17.780       | 38.45          | Pass   |
| HSUPA_Middle_Subtest5 | 22.34                    | 17.780       | 38.45          | Pass   |
| HSUPA_High_Subtest1   | 22.57                    | 18.010       | 38.45          | Pass   |
| HSUPA_High_Subtest2   | 22.56                    | 18.000       | 38.45          | Pass   |
| HSUPA_High_Subtest3   | 22.58                    | 18.020       | 38.45          | Pass   |
| HSUPA_High_Subtest4   | 22.57                    | 18.010       | 38.45          | Pass   |
| HSUPA_High_Subtest5   | 22.58                    | 18.020       | 38.45          | Pass   |

| Mode                     | Conducted Power<br>(dBm) | ERP<br>(dBm) | Limit<br>(dBm) | Result |
|--------------------------|--------------------------|--------------|----------------|--------|
| HSPA+_Low_Subtest1       | 21.72                    | 17.160       | 38.45          | Pass   |
| HSPA+_Middle_Subtest1    | 21.65                    | 17.090       | 38.45          | Pass   |
| HSPA+_High_Subtest1      | 21.49                    | 16.930       | 38.45          | Pass   |
| DC-HSDPA_Low_Subtest1    | 21.56                    | 17.000       | 38.45          | Pass   |
| DC-HSDPA_Low_Subtest2    | 21.82                    | 17.260       | 38.45          | Pass   |
| DC-HSDPA_Low_Subtest3    | 21.75                    | 17.190       | 38.45          | Pass   |
| DC-HSDPA_Low_Subtest4    | 22.01                    | 17.450       | 38.45          | Pass   |
| DC-HSDPA_Middle_Subtest1 | 21.76                    | 17.200       | 38.45          | Pass   |
| DC-HSDPA_Middle_Subtest2 | 21.48                    | 16.920       | 38.45          | Pass   |
| DC-HSDPA_Middle_Subtest3 | 21.54                    | 16.980       | 38.45          | Pass   |
| DC-HSDPA_Middle_Subtest4 | 21.60                    | 17.040       | 38.45          | Pass   |
| DC-HSDPA_High_Subtest1   | 21.63                    | 17.070       | 38.45          | Pass   |
| DC-HSDPA_High_Subtest2   | 21.39                    | 16.830       | 38.45          | Pass   |
| DC-HSDPA_High_Subtest3   | 21.57                    | 17.010       | 38.45          | Pass   |
| DC-HSDPA_High_Subtest4   | 22.13                    | 17.570       | 38.45          | Pass   |

**Note:**

**ERP = Conducted Power(dBm) - L<sub>C</sub>(dB) + G<sub>T</sub>(dBd)**

**G<sub>T</sub>(dBd) = G<sub>T</sub>(dBi) - 2.15**

**1.Ant Gain = -2.31dBi;**

**2.C<sub>L</sub> = signal attenuation in the connecting cable between the transmitter and antenna in 0.1dB**

Peak-to-average Ratio(PAR)

FCC Part 22H

Band 5 , Normal

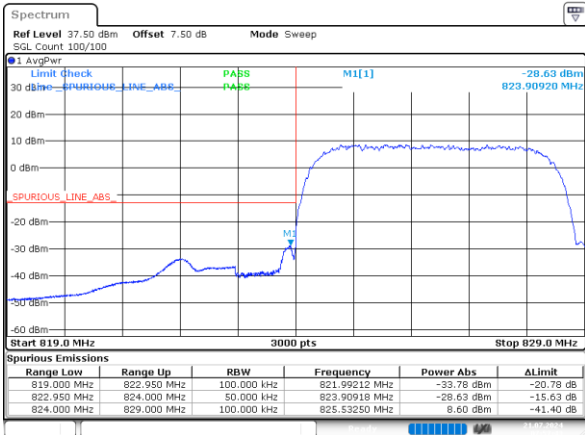
| Mode                  | Value<br>(dB) | Limit<br>(dB) |
|-----------------------|---------------|---------------|
| R99_Low               | 2.96          | 13            |
| R99_Middle            | 2.81          | 13            |
| R99_High              | 2.93          | 13            |
| HSDPA_Low_Subtest1    | 3.88          | 13            |
| HSDPA_Middle_Subtest1 | 3.77          | 13            |
| HSDPA_High_Subtest1   | 3.10          | 13            |
| HSUPA_Low_Subtest1    | 4.58          | 13            |
| HSUPA_Middle_Subtest1 | 4.38          | 13            |
| HSUPA_High_Subtest1   | 4.58          | 13            |

Out of band emission,Band Edge

FCC Part 22H

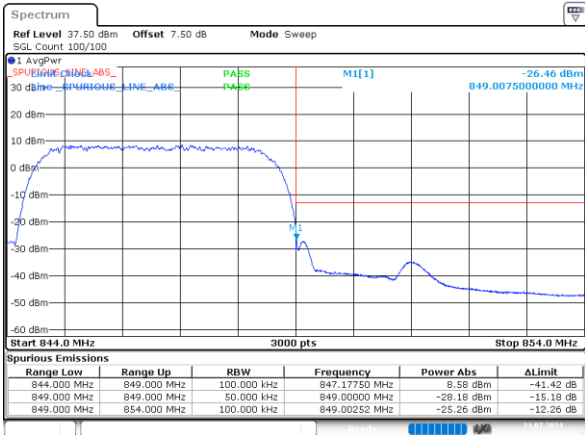
Band 5 , Normal

R99\_Low -28.63dBm



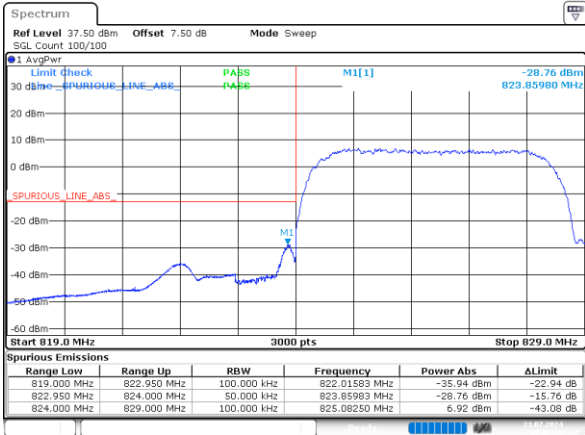
ProjectNo.:2402U40702E-RF Tester:Karl Liang  
 Date: 21.JUL.2024 07:57:43

R99\_High -26.46dBm



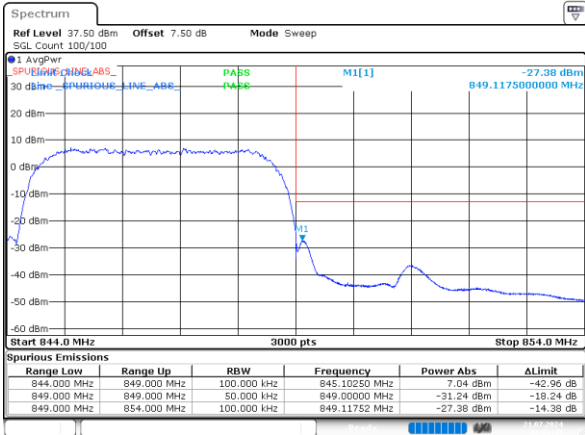
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HSDPA\_Low\_Subtest1 -28.76dBm



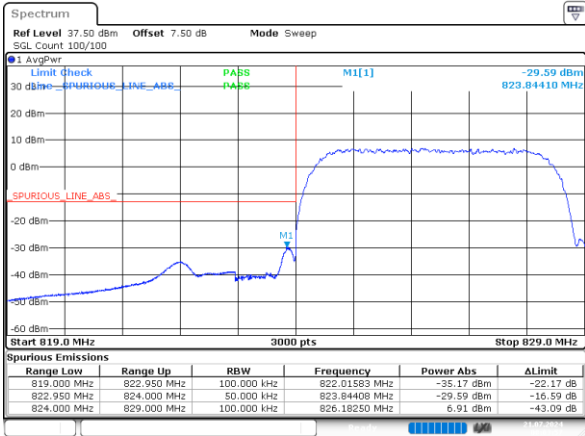
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 Date: 21.JUL.2024 08:00:18

HSDPA\_High\_Subtest1 -27.38dBm



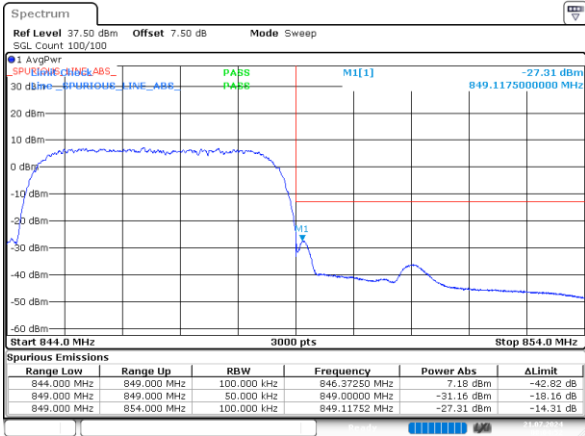
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HSUPA\_Low\_Subtest1 -29.59dBm



ProjectNo.:2402U40702E-RF Tester:Karl Liang  
 Date: 21.JUL.2024 08:03:58

HSUPA\_High\_Subtest1 -27.31dBm



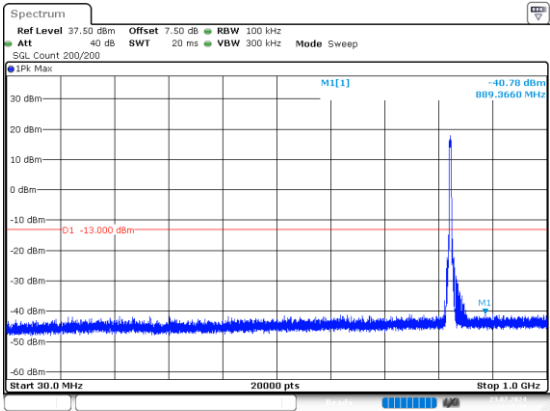
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 Date: 21.JUL.2024 08:04:52

Spurious Emissions at Antenna Terminal

FCC Part 22H  
Band 5 , Normal

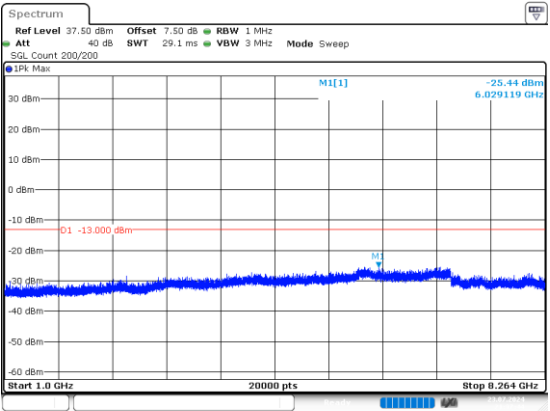
R99\_Low

Below 1G



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Date: 23.JUL.2024 21:37:19

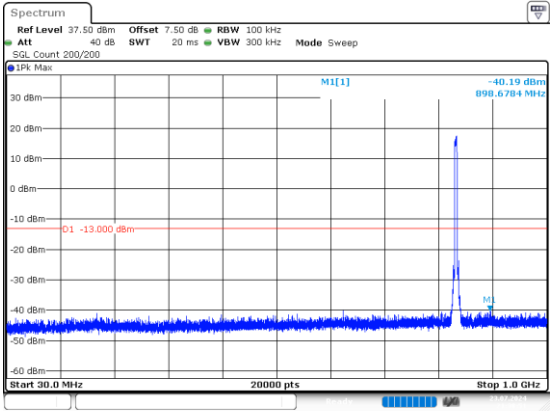
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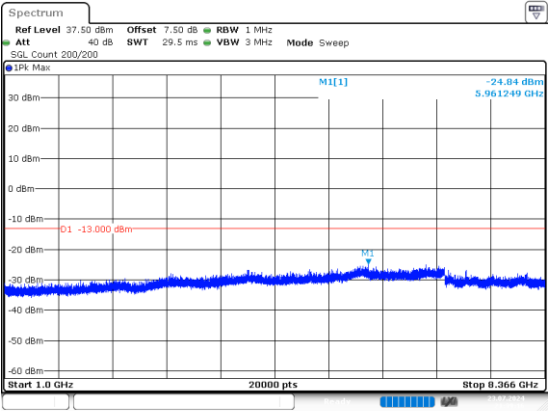
R99\_Middle

Below 1G



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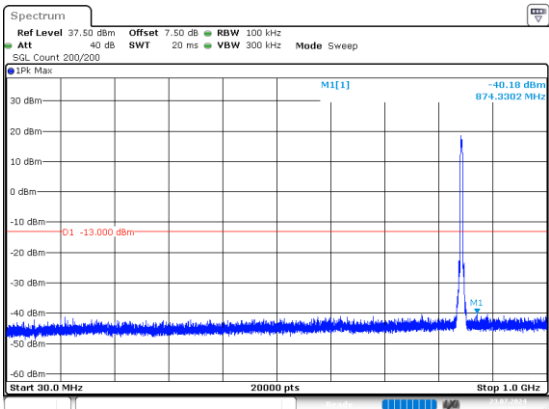
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Date: 23.JUL.2024 21:39:16

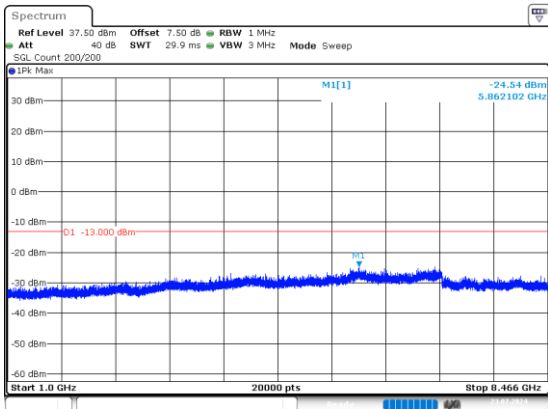
R99\_High

Below 1G



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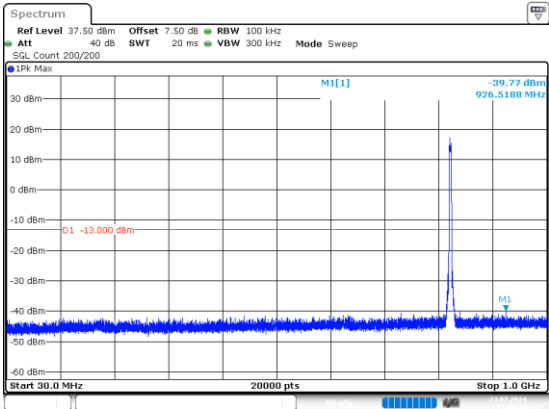
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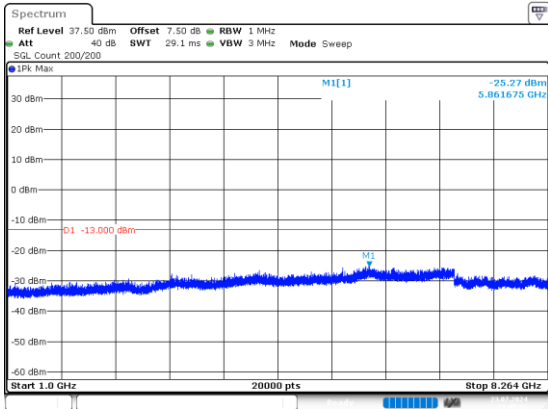
HSDPA\_Low\_Subtest1

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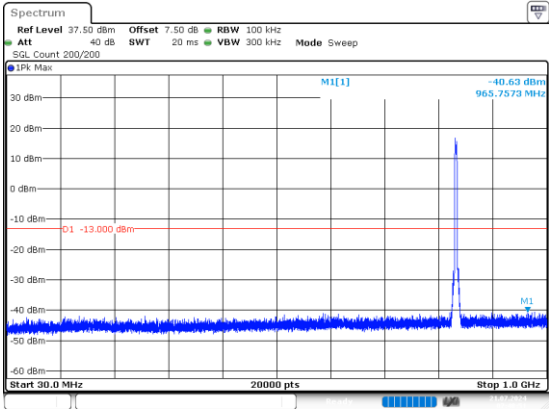
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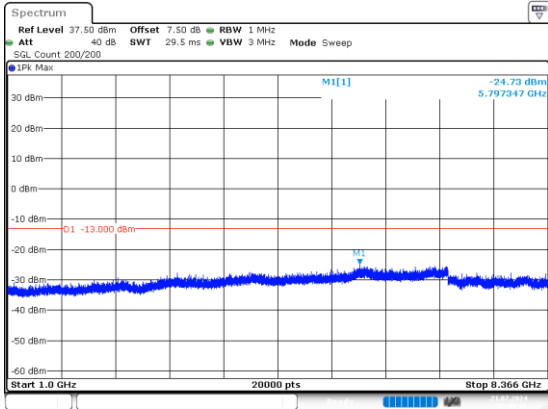
HSDPA\_Middle\_Subtest1

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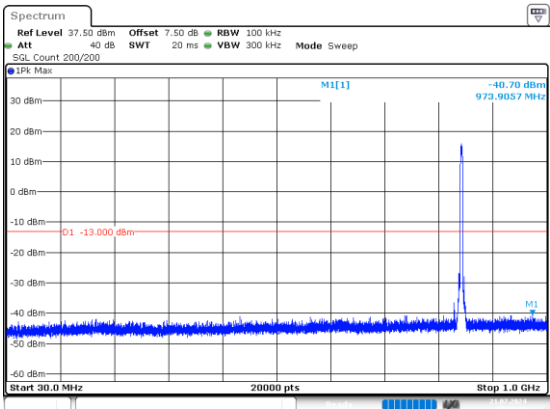
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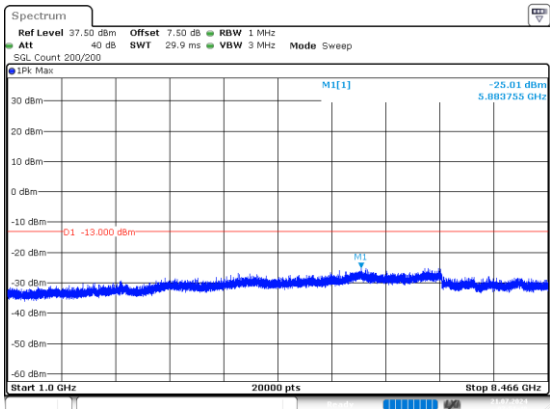
HSDPA\_High\_Subtest1

Below 1G



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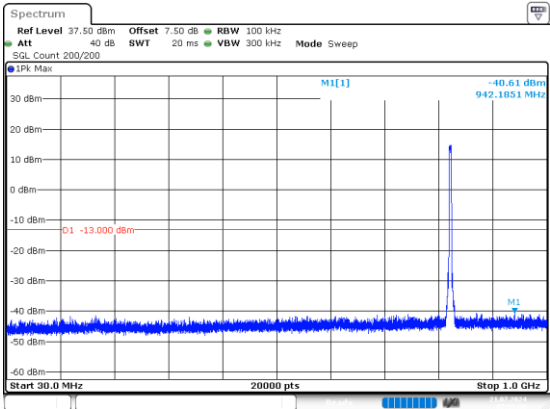
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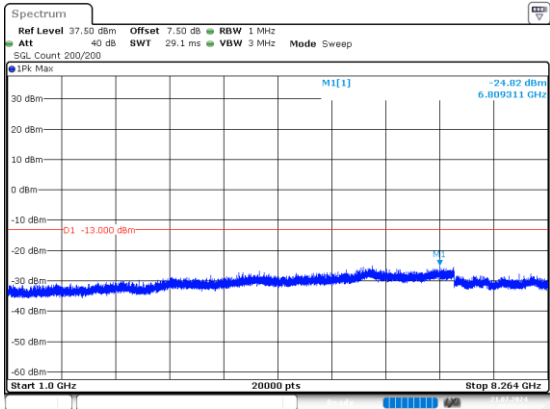
HSUPA\_Low\_Subtest1

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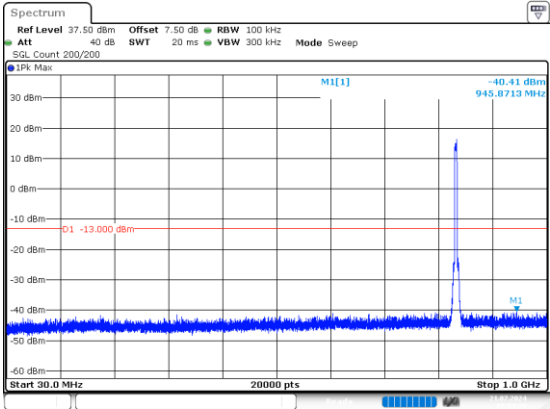
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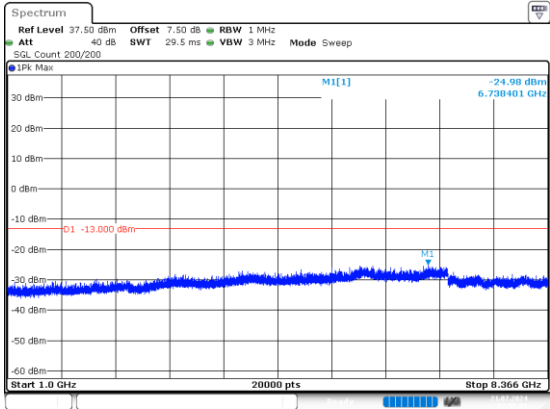
HSUPA\_Middle\_Subtest1

Below 1G



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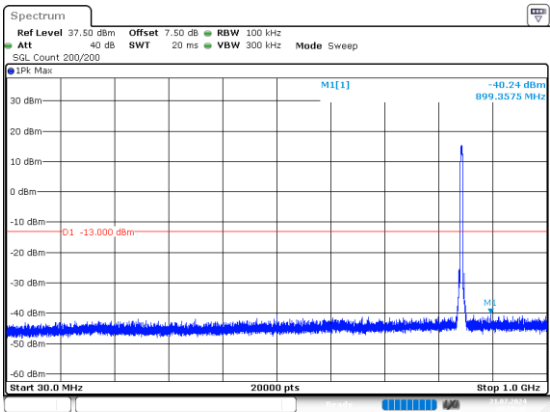
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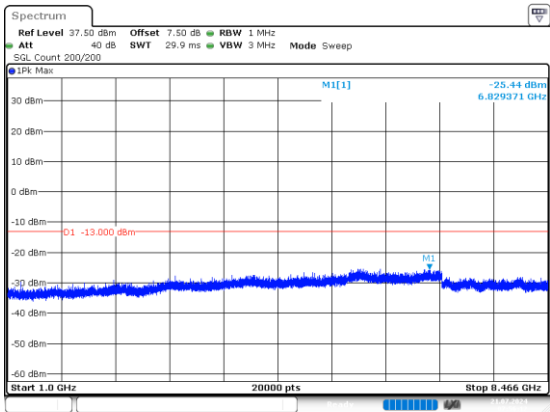
HSUPA\_High\_Subtest1

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Above 1G



ProjectNo.:2402U40702E-RF Tester:Karl Liang  
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