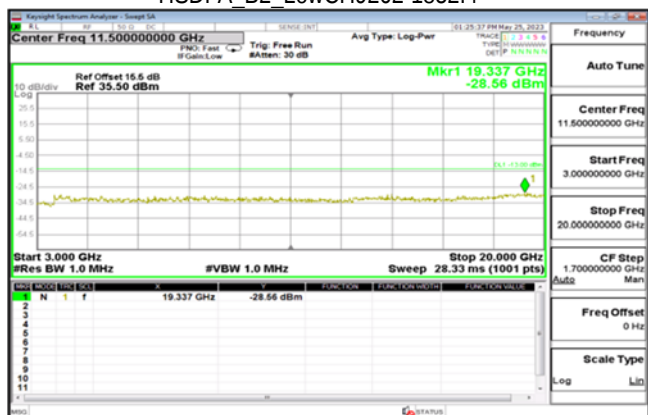
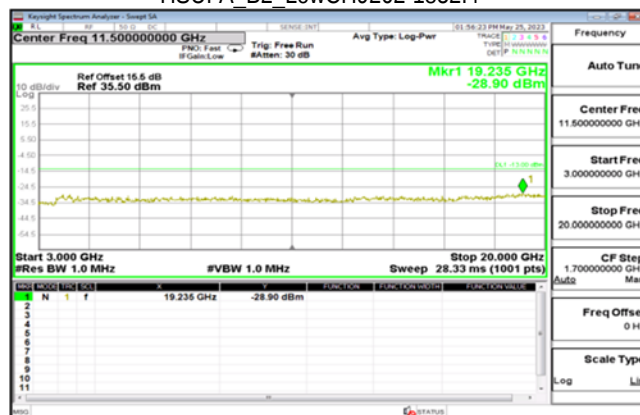


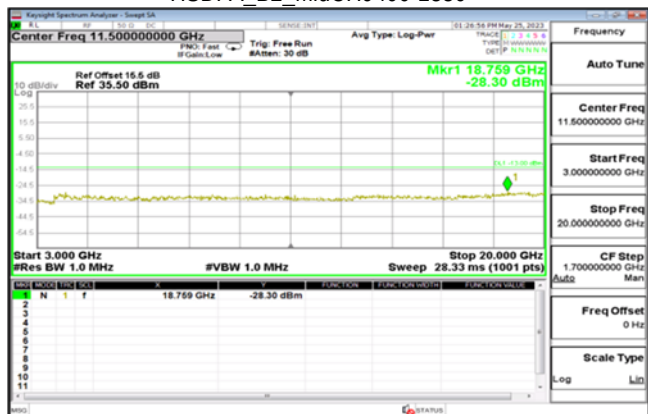
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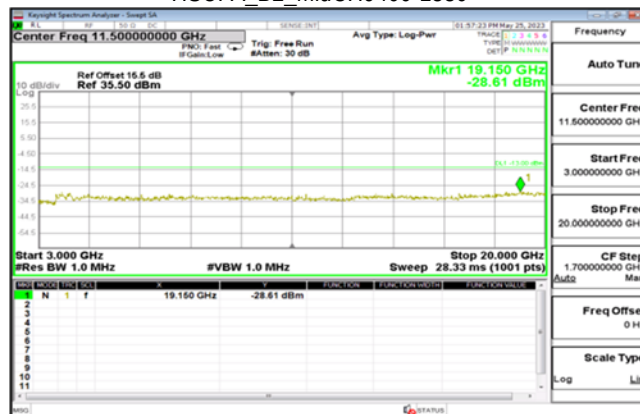
HSUPA B2_LowCH9262-1852.4



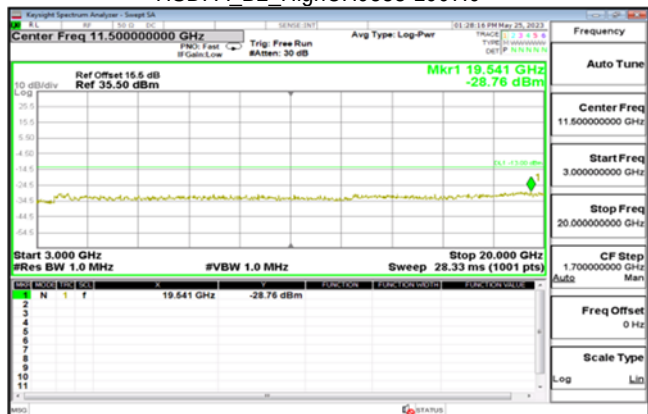
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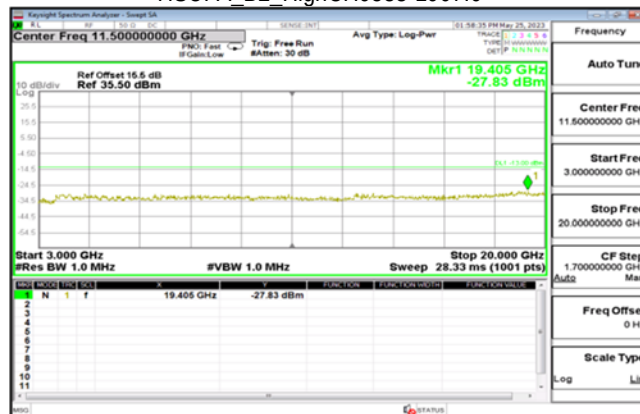
HSUPA B2_MidCH9400-1880



HSDPA B2_HighCH9538-1907.6



HSUPA B2_HighCH9538-1907.6

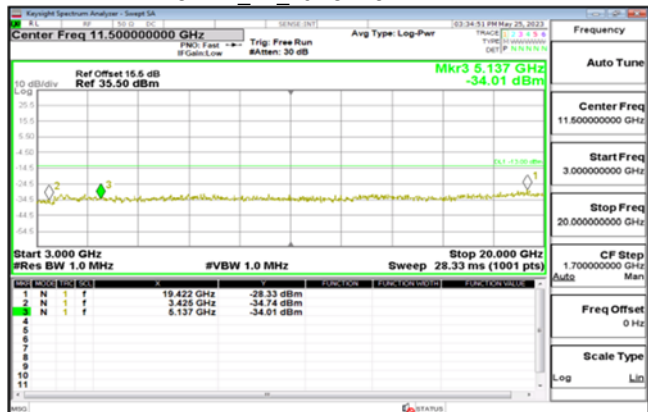


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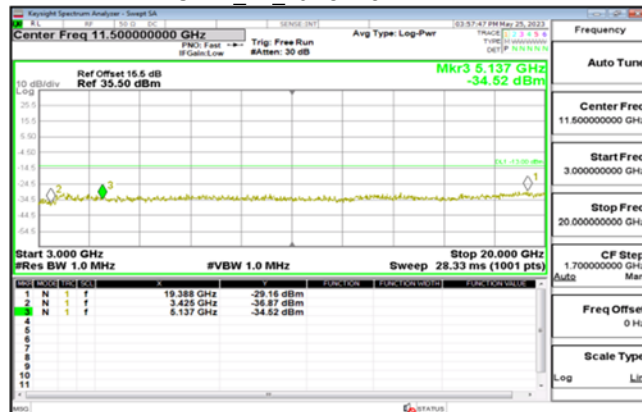
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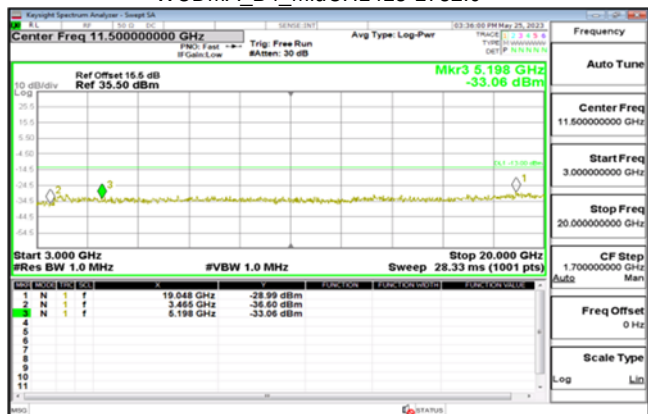
WCDMA B4 LowCH1312-1712.4



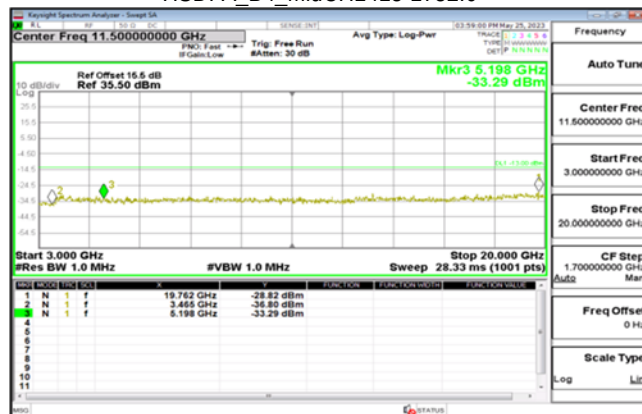
HSDPA B4 LowCH1312-1712.4



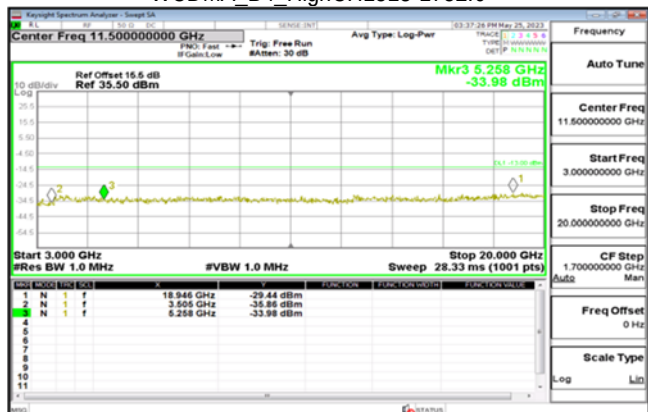
WCDMA B4 MidCH1413-1732.6



HSDPA B4 MidCH1413-1732.6



WCDMA B4 HighCH1513-1752.6



HSDPA B4 HighCH1513-1752.6

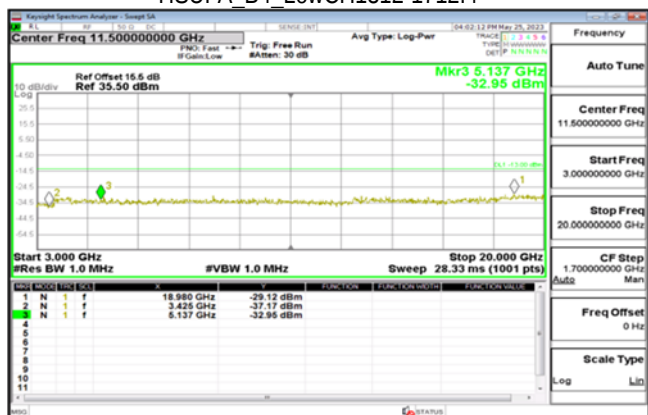


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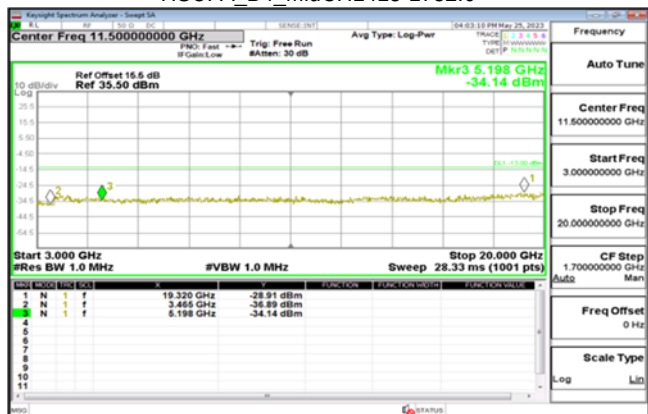
HSUPA_B4_LowCH1312-1712.4



WCDMA_B5_LowCH4132-826.4



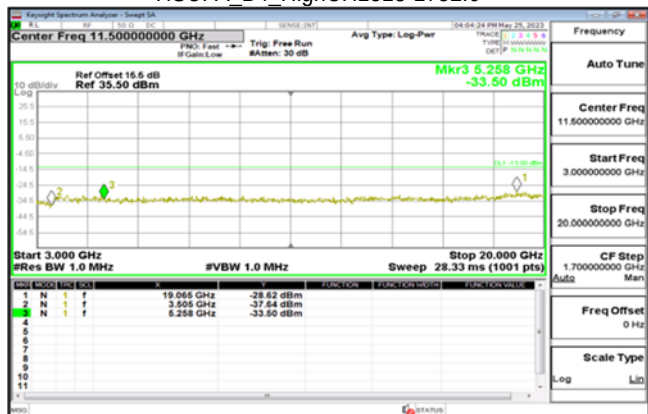
HSUPA_B4_MidCH1413-1732.6



WCDMA_B5_MidCH4183-836.6



HSUPA_B4_HighCH1513-1752.6



WCDMA_B5_HighCH4233-846.6

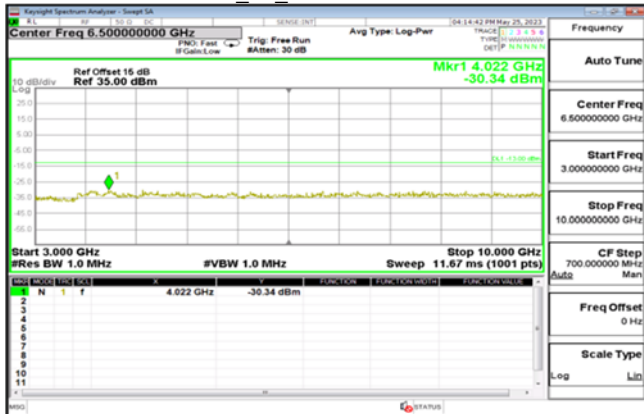


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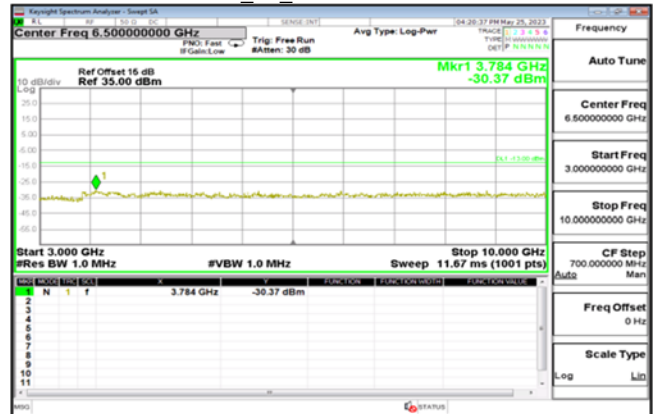
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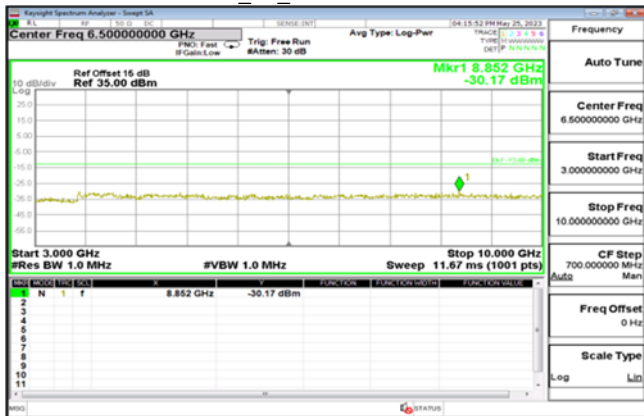
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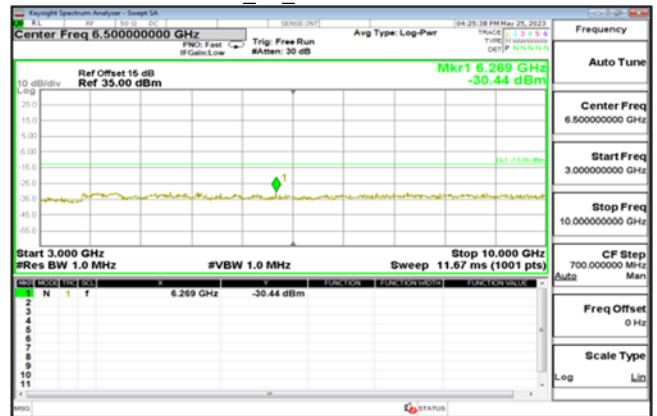
HSUPA_B5_LowCH4132-826.4



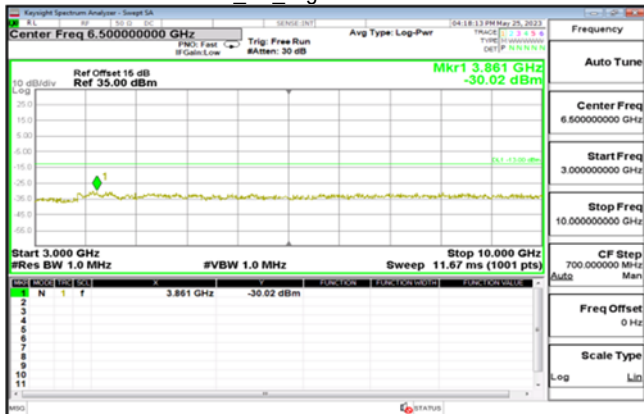
HSDPA_B5_MidCH4183-836.6



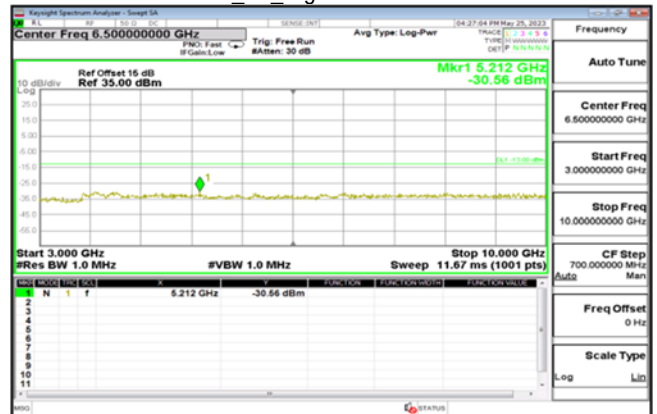
HSUPA_B5_MidCH4183-836.6



HSDPA_B5_HighCH4233-846.6



HSUP_B5_HighCH4233-846.6



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11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

11.1 Standard Applicable

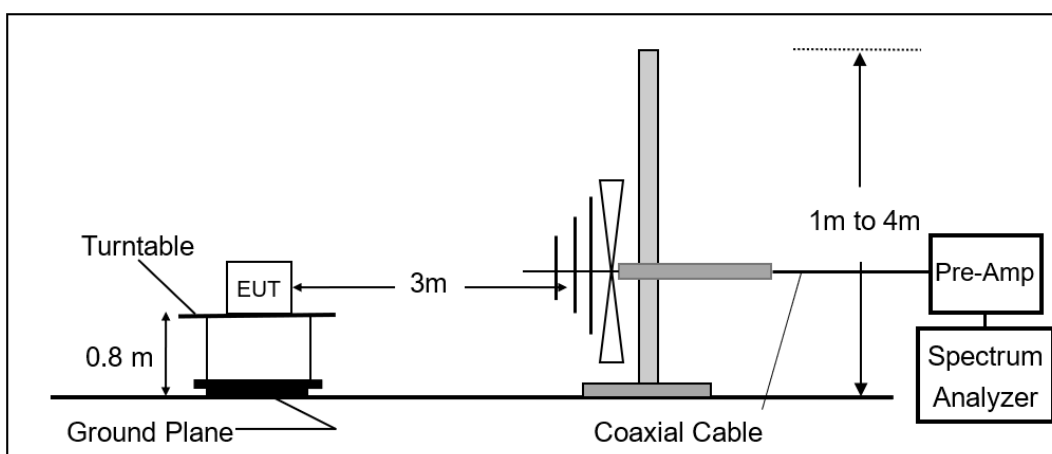
According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

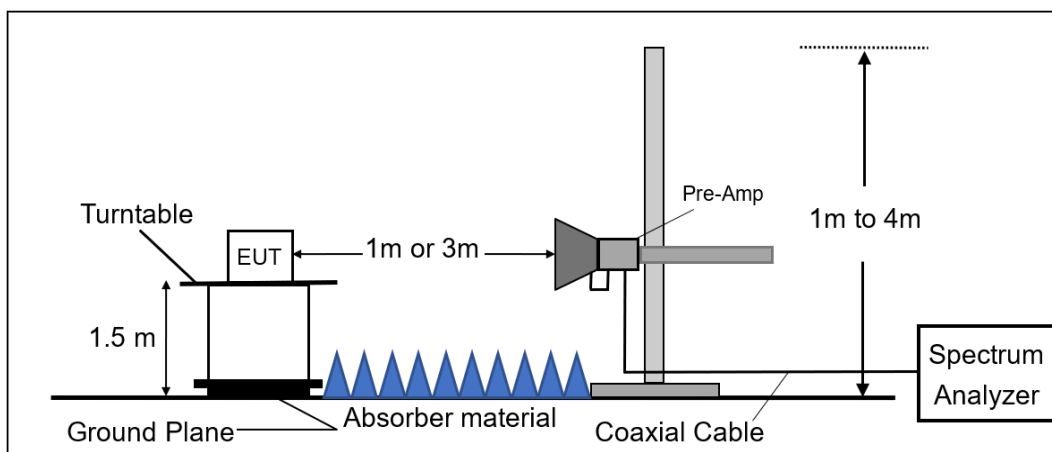
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

11.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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11.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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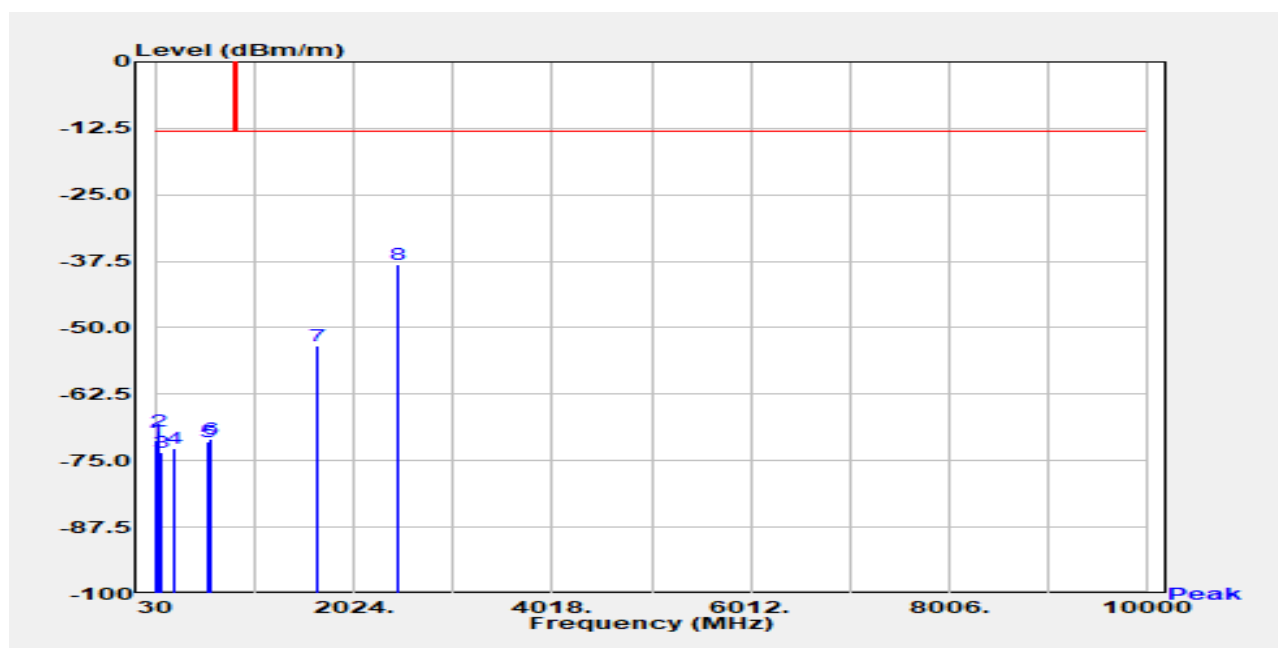
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11.4 Measurement Result:

Report Number :TERF2305001075ER
 Operation Mode :GSM 850
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :824.2 MHz

Test Site :SAC 2
 Test Date :2023-06-27
 Temp./Humi. :25.9°C/55%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.18	-58.89	-11.68	-0.61	-13.00	-58.18
75.590	-69.30	-66.06	-2.32	-0.92	-13.00	-56.30
102.750	-73.45	-73.73	1.37	-1.08	-13.00	-60.45
212.360	-72.61	-77.84	6.77	-1.54	-13.00	-59.61
550.890	-71.39	-75.70	6.72	-2.41	-13.00	-58.39
597.450	-70.97	-74.42	6.11	-2.65	-13.00	-57.97
1648.400	-53.49	-60.35	9.29	-4.43	-13.00	-40.49
2472.600	-38.01	-43.99	10.49	-5.52	-13.00	-25.01

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Report Number :TERF2305001075ER

Test Site :SAC 2

Operation Mode :GSM 850

Test Date :2023-06-27

Test Mode :Tx

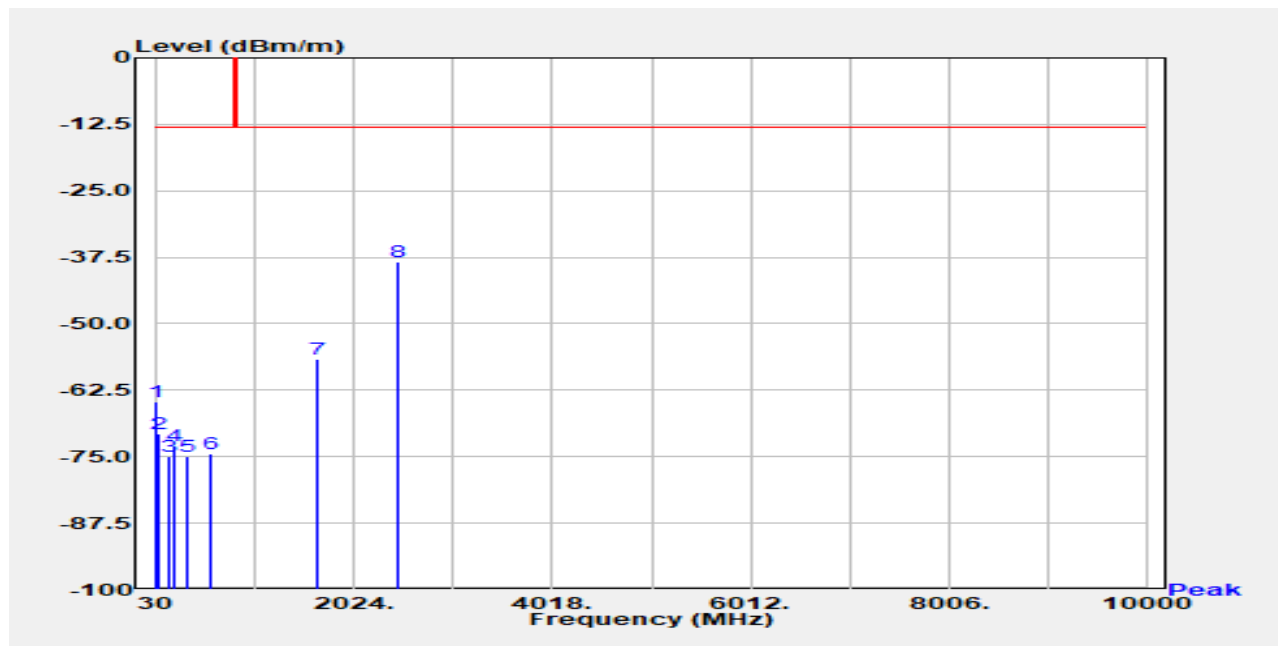
Temp./Humi. :25.9°C/55%

EUT Pol :E1 Plane

Antenna Pol. :Horizontal

Test Frequency :824.2 MHz

Engineer :Ricky Chen



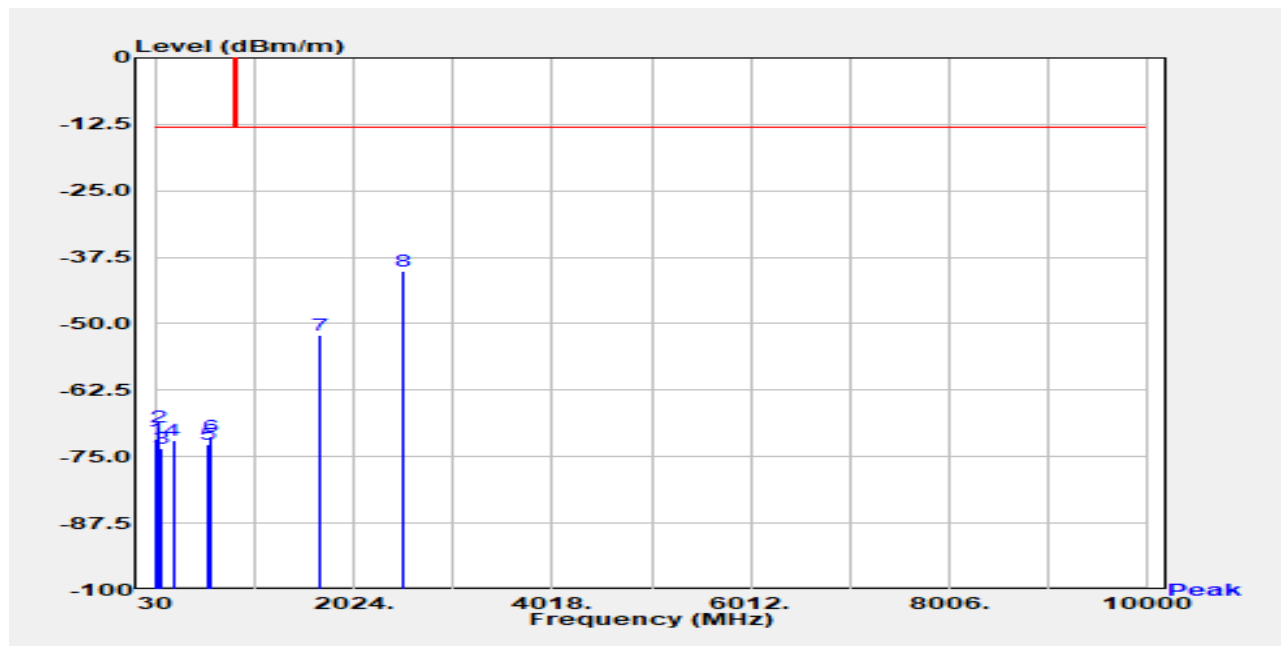
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-64.58	-52.29	-11.68	-0.61	-13.00	-51.58
69.770	-70.60	-65.17	-4.54	-0.89	-13.00	-57.60
182.290	-74.95	-77.48	3.97	-1.45	-13.00	-61.95
212.360	-72.92	-78.15	6.77	-1.54	-13.00	-59.92
350.100	-74.98	-79.50	6.61	-2.09	-13.00	-61.98
586.780	-74.50	-77.83	6.26	-2.93	-13.00	-61.50
1648.400	-56.75	-63.61	9.29	-4.43	-13.00	-43.75
2472.600	-38.23	-44.20	10.49	-5.52	-13.00	-25.23

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Report Number :TERF2305001075ER
Operation Mode :GSM 850
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

Test Site :SAC 2
Test Date :2023-06-27
Temp./Humi. :25.9°C/55%
Antenna Pol. :Vertical
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
30.970	-71.75	-59.31	-11.84	-0.60	-13.00	-58.75
75.590	-69.42	-66.17	-2.32	-0.92	-13.00	-56.42
103.720	-73.37	-73.52	1.23	-1.09	-13.00	-60.37
209.450	-71.87	-77.07	6.74	-1.54	-13.00	-58.87
550.890	-72.62	-76.93	6.72	-2.41	-13.00	-59.62
595.510	-71.30	-74.68	6.12	-2.74	-13.00	-58.30
1673.200	-52.01	-57.03	9.49	-4.47	-13.00	-39.01
2509.800	-40.00	-45.03	10.60	-5.57	-13.00	-27.00

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Report Number :TERF2305001075ER

Test Site :SAC 2

Operation Mode :GSM 850

Test Date :2023-06-27

Test Mode :Tx

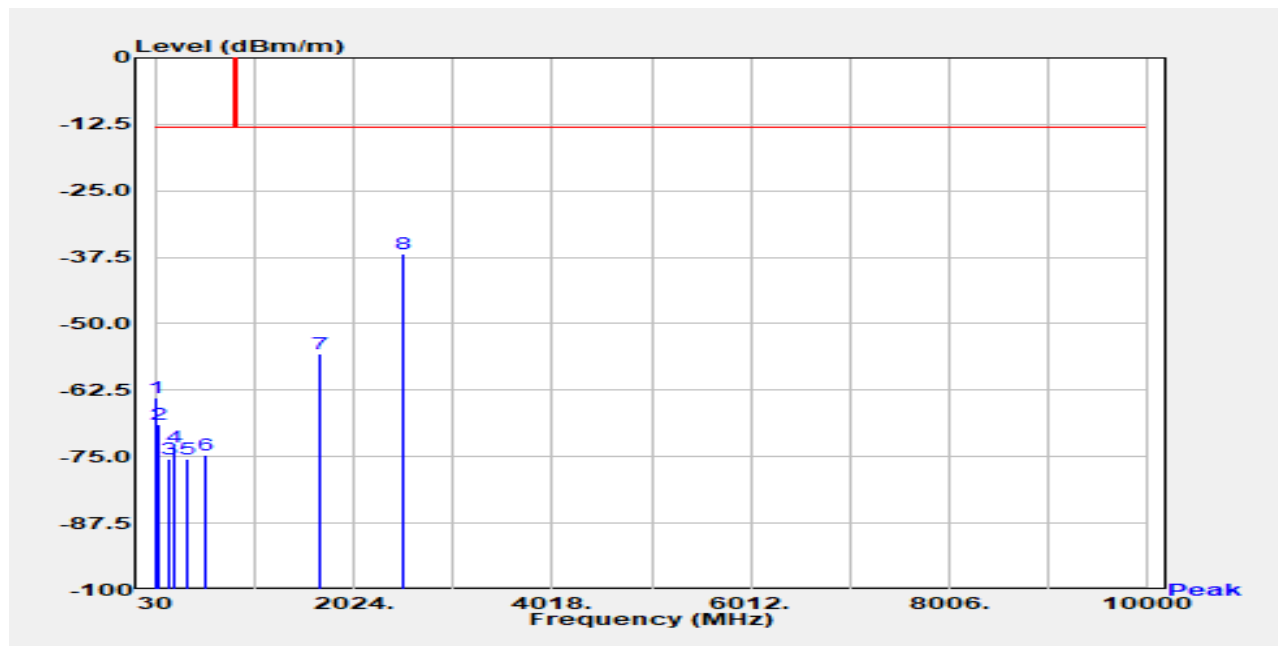
Temp./Humi. :25.9°C/55%

EUT Pol :E1 Plane

Antenna Pol. :Horizontal

Test Frequency :836.6 MHz

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-63.87	-52.50	-10.72	-0.65	-13.00	-50.87
75.590	-68.93	-65.68	-2.32	-0.92	-13.00	-55.93
177.440	-75.50	-77.27	3.20	-1.43	-13.00	-62.50
212.360	-73.10	-78.33	6.77	-1.54	-13.00	-60.10
344.280	-75.56	-80.02	6.56	-2.10	-13.00	-62.56
538.280	-74.71	-78.89	6.55	-2.37	-13.00	-61.71
1673.200	-55.54	-60.57	9.49	-4.47	-13.00	-42.54
2509.800	-36.94	-41.96	10.60	-5.57	-13.00	-23.94

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Report Number :TERF2305001075ER

Operation Mode :GSM 850

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :848.8 MHz

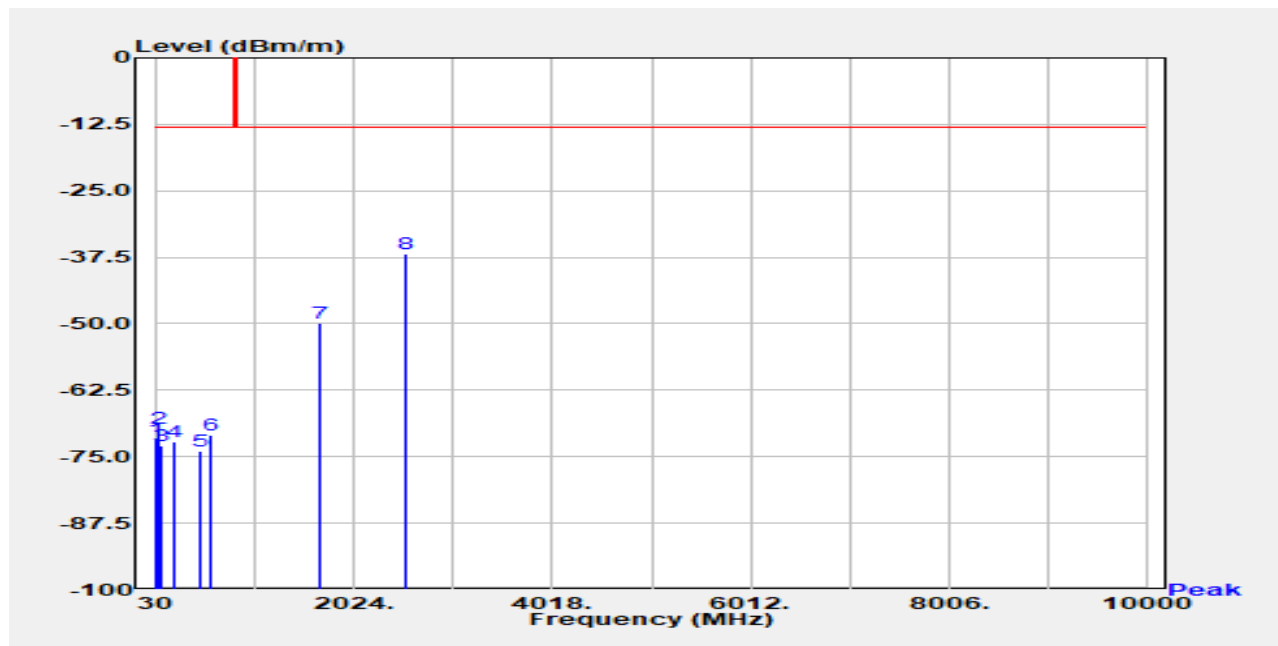
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Vertical

Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
31.940	-71.79	-59.50	-11.68	-0.61	-13.00	-58.79
75.590	-69.67	-66.43	-2.32	-0.92	-13.00	-56.67
102.750	-72.96	-73.25	1.37	-1.08	-13.00	-59.96
214.300	-72.19	-77.42	6.78	-1.55	-13.00	-59.19
496.570	-73.86	-78.05	6.55	-2.36	-13.00	-60.86
600.360	-70.86	-74.41	6.09	-2.54	-13.00	-57.86
1697.600	-49.78	-55.96	9.68	-4.50	-13.00	-36.78
2546.400	-36.78	-42.79	10.60	-5.59	-13.00	-23.78

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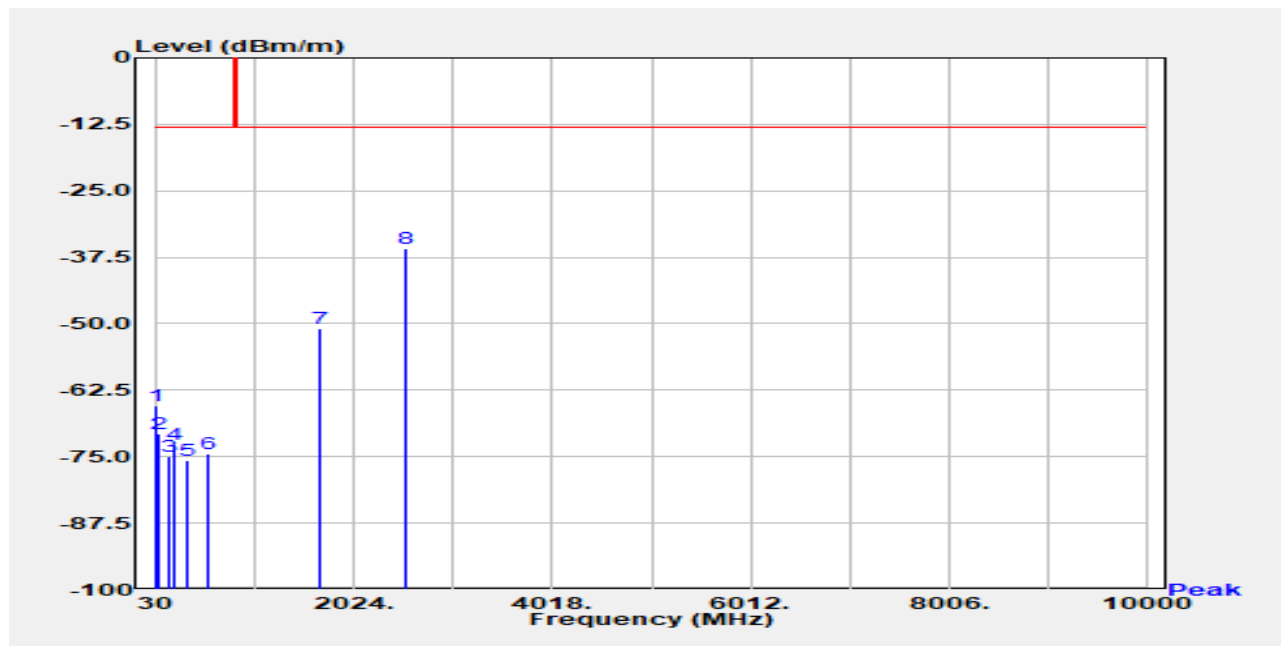
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Report Number :TERF2305001075ER
Operation Mode :GSM 850
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :848.8 MHz

Test Site :SAC 2
Test Date :2023-06-27
Temp./Humi. :25.9°C/55%
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-65.44	-53.50	-11.30	-0.63	-13.00	-52.44
69.770	-70.72	-65.29	-4.54	-0.89	-13.00	-57.72
179.380	-75.04	-77.12	3.51	-1.43	-13.00	-62.04
211.390	-72.79	-78.02	6.77	-1.54	-13.00	-59.79
354.950	-75.81	-80.46	6.73	-2.08	-13.00	-62.81
550.890	-74.33	-78.64	6.72	-2.41	-13.00	-61.33
1697.600	-50.81	-57.00	9.68	-4.50	-13.00	-37.81
2546.400	-35.86	-41.87	10.60	-5.59	-13.00	-22.86

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Member of SGS Group

Report Number :TERF2305001075ER

Operation Mode :GSM 1900

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1850.2 MHz

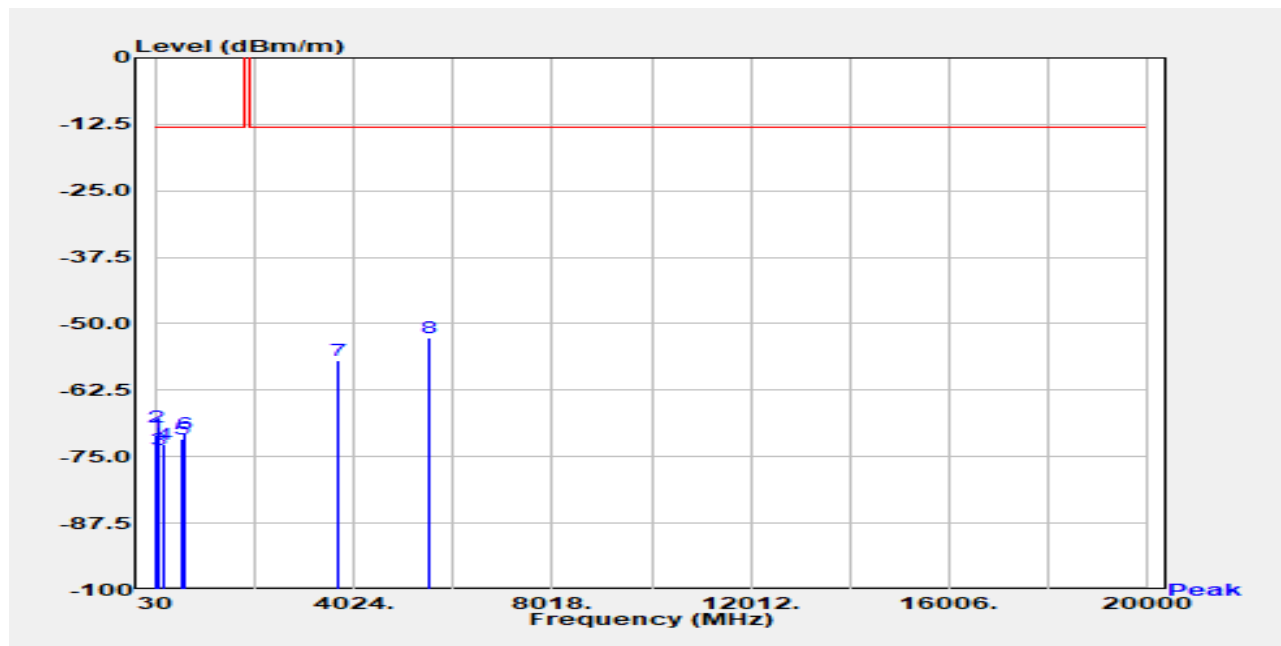
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Vertical

Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
31.940	-70.90	-58.61	-11.68	-0.61	-13.00	-57.90
75.590	-69.54	-66.29	-2.32	-0.92	-13.00	-56.54
101.780	-73.71	-73.94	1.30	-1.08	-13.00	-60.71
214.300	-72.59	-77.82	6.78	-1.55	-13.00	-59.59
551.860	-71.74	-75.98	6.70	-2.45	-13.00	-58.74
606.180	-70.77	-74.27	6.06	-2.56	-13.00	-57.77
3700.400	-56.91	-62.70	12.40	-6.61	-13.00	-43.91
5550.600	-52.74	-57.26	12.90	-8.39	-13.00	-39.74

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Member of SGS Group

Report Number :TERF2305001075ER

Operation Mode :GSM 1900

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1850.2 MHz

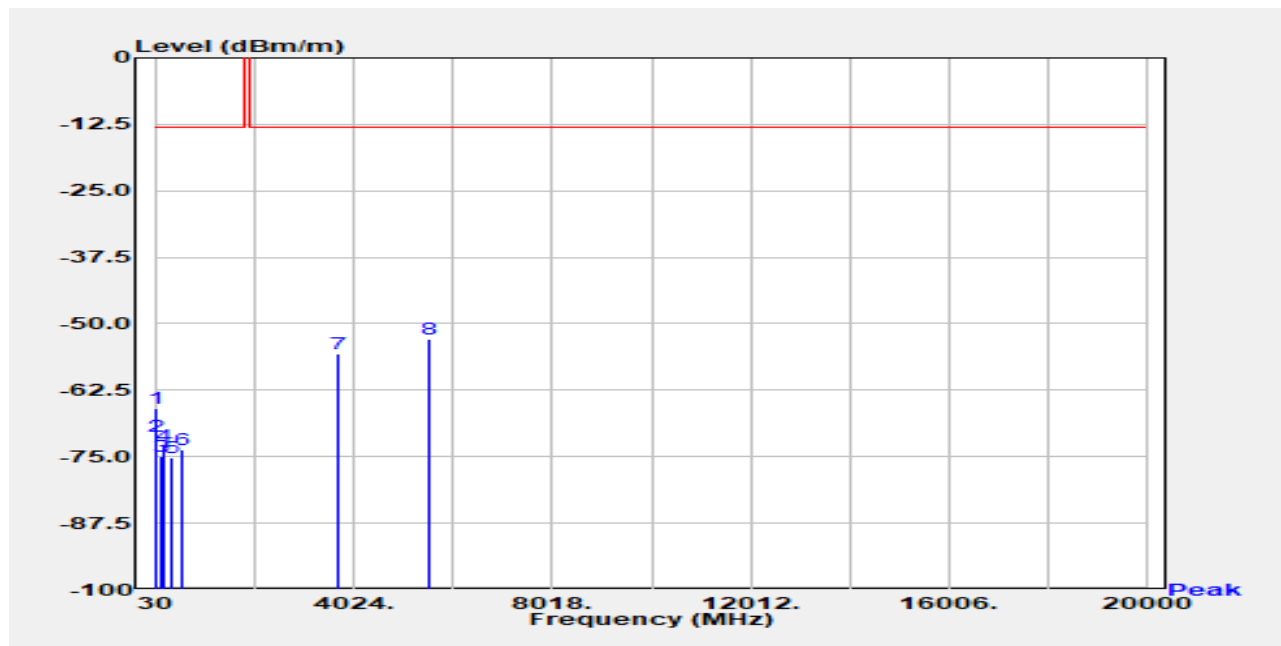
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Horizontal

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-65.93	-54.16	-11.13	-0.64	-13.00	-52.93
70.740	-71.06	-65.87	-4.30	-0.89	-13.00	-58.06
177.440	-74.82	-76.59	3.20	-1.43	-13.00	-61.82
214.300	-72.97	-78.20	6.78	-1.55	-13.00	-59.97
365.620	-75.08	-79.67	6.67	-2.08	-13.00	-62.08
589.690	-73.65	-76.91	6.25	-2.98	-13.00	-60.65
3700.400	-55.59	-61.38	12.40	-6.61	-13.00	-42.59
5550.600	-52.91	-57.43	12.90	-8.39	-13.00	-39.91

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Member of SGS Group

Report Number :TERF2305001075ER

Operation Mode :GSM 1900

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1880 MHz

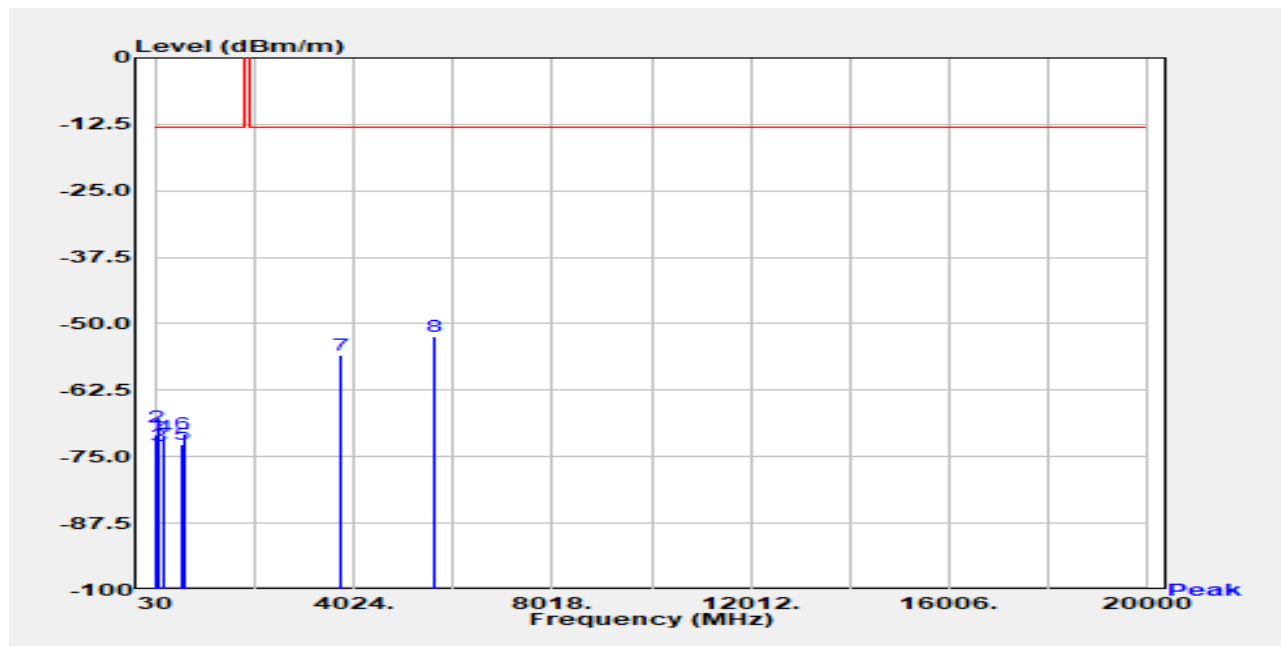
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

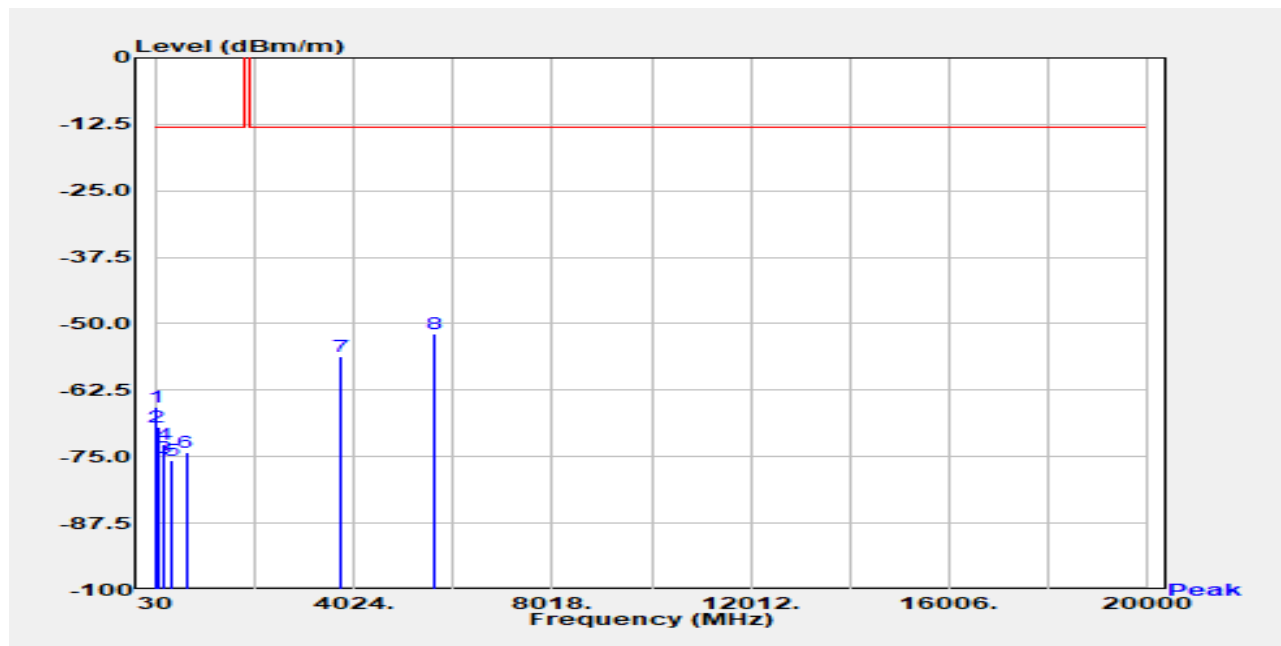
Antenna Pol. :Vertical

Engineer :Ricky Chen



Report Number :TERF2305001075ER
 Operation Mode :GSM 1900
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1880 MHz

Test Site :SAC 2
 Test Date :2023-06-27
 Temp./Humi. :25.9°C/55%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-65.76	-54.39	-10.72	-0.65	-13.00	-52.76
75.590	-69.48	-66.24	-2.32	-0.92	-13.00	-56.48
182.290	-75.26	-77.79	3.97	-1.45	-13.00	-62.26
213.330	-72.77	-78.00	6.78	-1.55	-13.00	-59.77
348.160	-75.71	-80.23	6.60	-2.09	-13.00	-62.71
651.770	-74.29	-77.80	6.04	-2.53	-13.00	-61.29
3760.000	-56.03	-61.69	12.36	-6.69	-13.00	-43.03
5640.000	-51.98	-56.73	13.18	-8.42	-13.00	-38.98

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Report Number :TERF2305001075ER

Operation Mode :GSM 1900

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1909.8 MHz

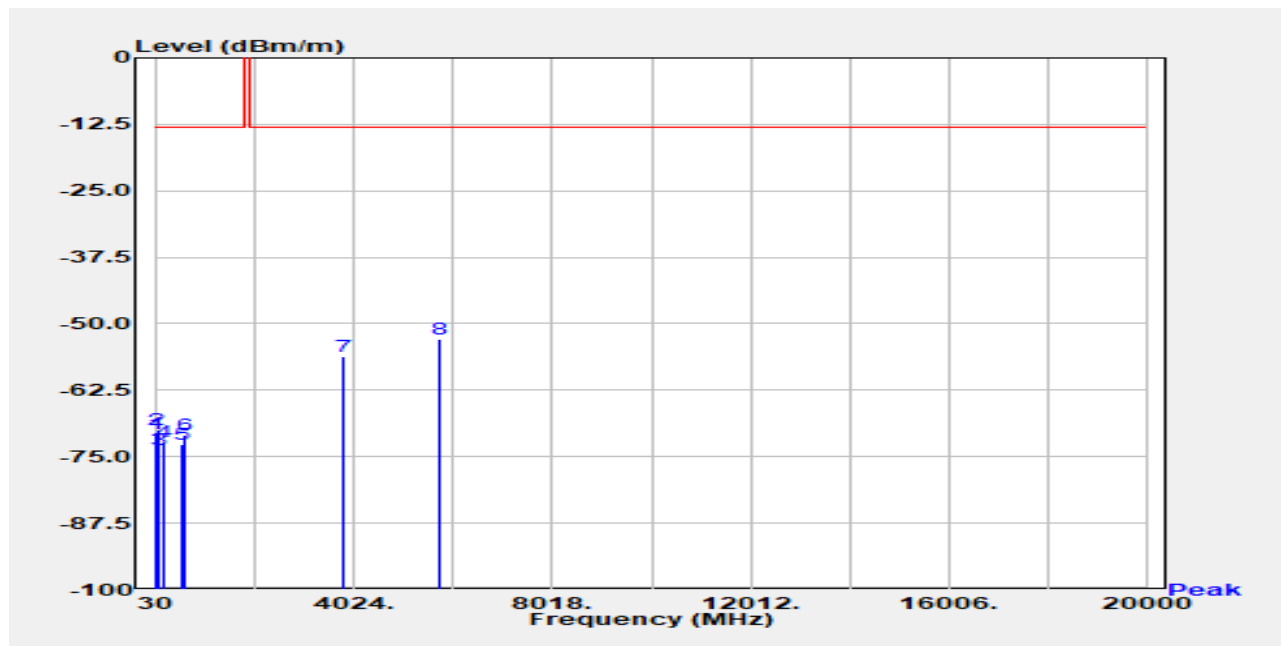
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Vertical

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-70.74	-58.45	-11.68	-0.61	-13.00	-57.74
75.590	-69.99	-66.74	-2.32	-0.92	-13.00	-56.99
102.750	-73.71	-74.00	1.37	-1.08	-13.00	-60.71
212.360	-72.11	-77.34	6.77	-1.54	-13.00	-59.11
556.710	-72.56	-76.51	6.61	-2.67	-13.00	-59.56
602.300	-70.87	-74.40	6.08	-2.55	-13.00	-57.87
3819.600	-56.17	-61.61	12.24	-6.79	-13.00	-43.17
5729.400	-52.85	-57.32	12.94	-8.47	-13.00	-39.85

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Report Number :TERF2305001075ER

Test Site :SAC 2

Operation Mode :GSM 1900

Test Date :2023-06-27

Test Mode :Tx

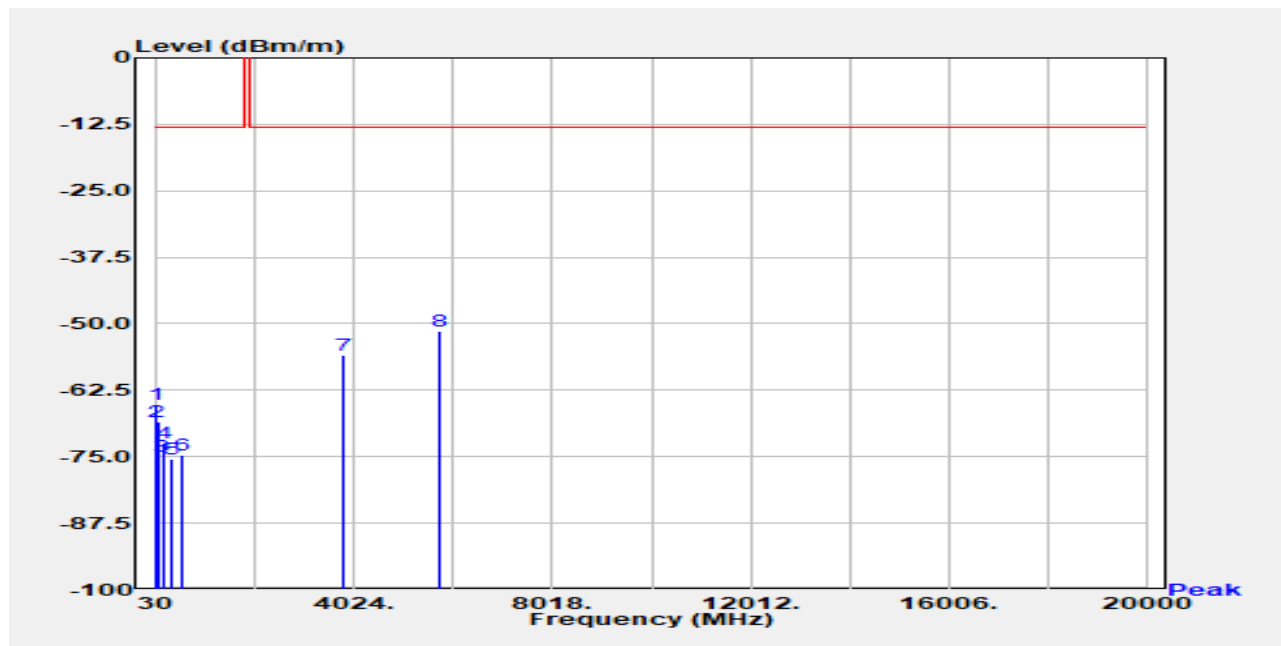
Temp./Humi. :25.9°C/55%

EUT Pol :E1 Plane

Antenna Pol. :Horizontal

Test Frequency :1909.8 MHz

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-65.16	-53.78	-10.72	-0.65	-13.00	-52.16
75.590	-68.34	-65.09	-2.32	-0.92	-13.00	-55.34
181.320	-74.83	-77.28	3.90	-1.44	-13.00	-61.83
212.360	-72.50	-77.73	6.77	-1.54	-13.00	-59.50
343.310	-75.46	-79.88	6.51	-2.10	-13.00	-62.46
596.480	-74.64	-78.05	6.11	-2.70	-13.00	-61.64
3819.600	-55.89	-61.33	12.24	-6.79	-13.00	-42.89
5729.400	-51.37	-55.84	12.94	-8.47	-13.00	-38.37

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Report Number :TERF2305001075ER

Operation Mode :WCDMA B2

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1852.4 MHz

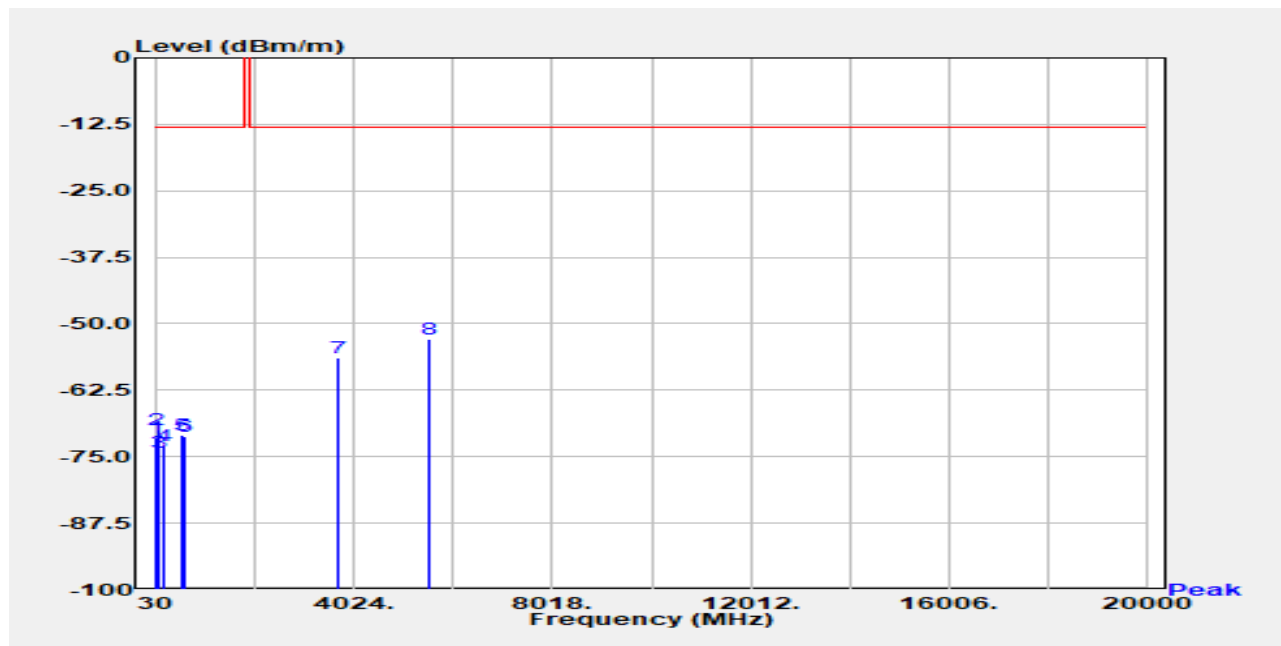
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Vertical

Engineer :Ricky Chen



Report Number :TERF2305001075ER

Test Site :SAC 2

Operation Mode :WCDMA B2

Test Date :2023-06-27

Test Mode :Tx

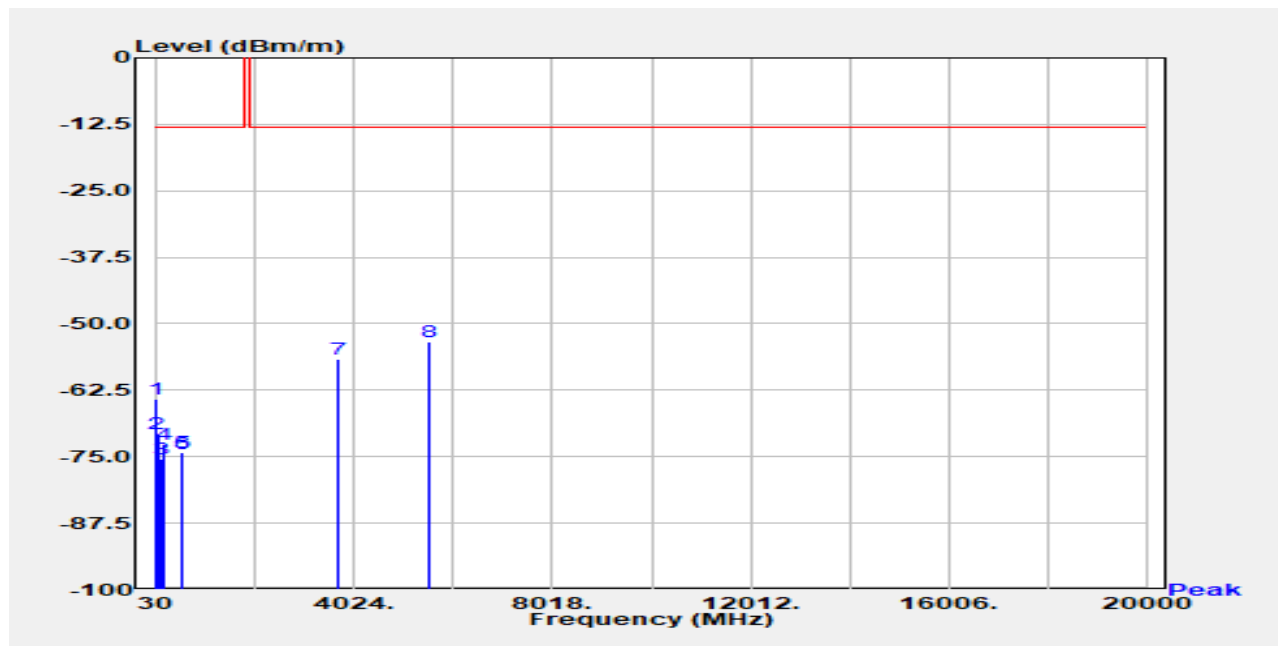
Temp./Humi. :25.9°C/55%

EUT Pol :E1 Plane

Antenna Pol. :Horizontal

Test Frequency :1852.4 MHz

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-64.26	-52.89	-10.72	-0.65	-13.00	-51.26
75.590	-70.69	-67.44	-2.32	-0.92	-13.00	-57.69
177.440	-75.41	-77.19	3.20	-1.43	-13.00	-62.41
214.300	-72.70	-77.93	6.78	-1.55	-13.00	-59.70
550.890	-74.13	-78.44	6.72	-2.41	-13.00	-61.13
591.630	-74.42	-77.71	6.21	-2.92	-13.00	-61.42
3704.800	-56.69	-62.47	12.40	-6.62	-13.00	-43.69
5557.200	-53.44	-57.98	12.93	-8.39	-13.00	-40.44

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Report Number :TERF2305001075ER

Operation Mode :WCDMA B2

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1880 MHz

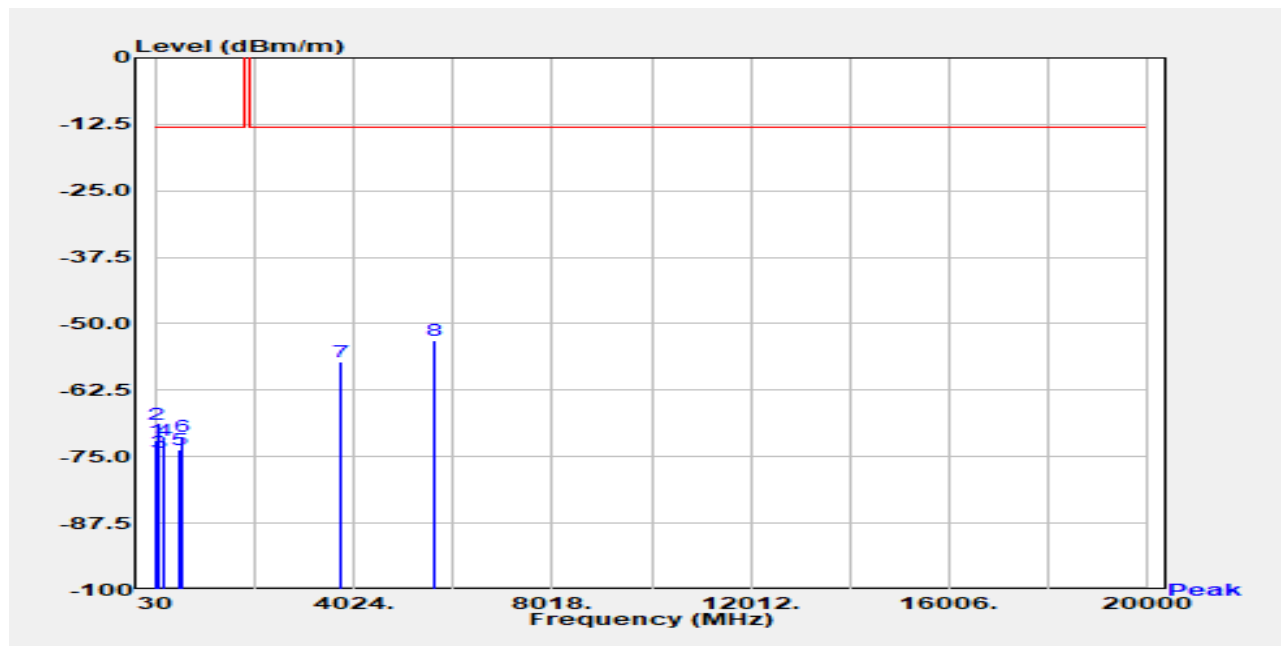
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Vertical

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-72.02	-59.73	-11.68	-0.61	-13.00	-59.02
75.590	-69.01	-65.76	-2.32	-0.92	-13.00	-56.01
102.750	-74.28	-74.56	1.37	-1.08	-13.00	-61.28
211.390	-72.01	-77.24	6.77	-1.54	-13.00	-59.01
520.820	-73.65	-78.03	6.46	-2.08	-13.00	-60.65
593.570	-71.28	-74.61	6.16	-2.83	-13.00	-58.28
3760.000	-57.24	-62.90	12.36	-6.69	-13.00	-44.24
5640.000	-53.16	-57.92	13.18	-8.42	-13.00	-40.16

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Report Number :TERF2305001075ER

Operation Mode :WCDMA B2

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1880 MHz

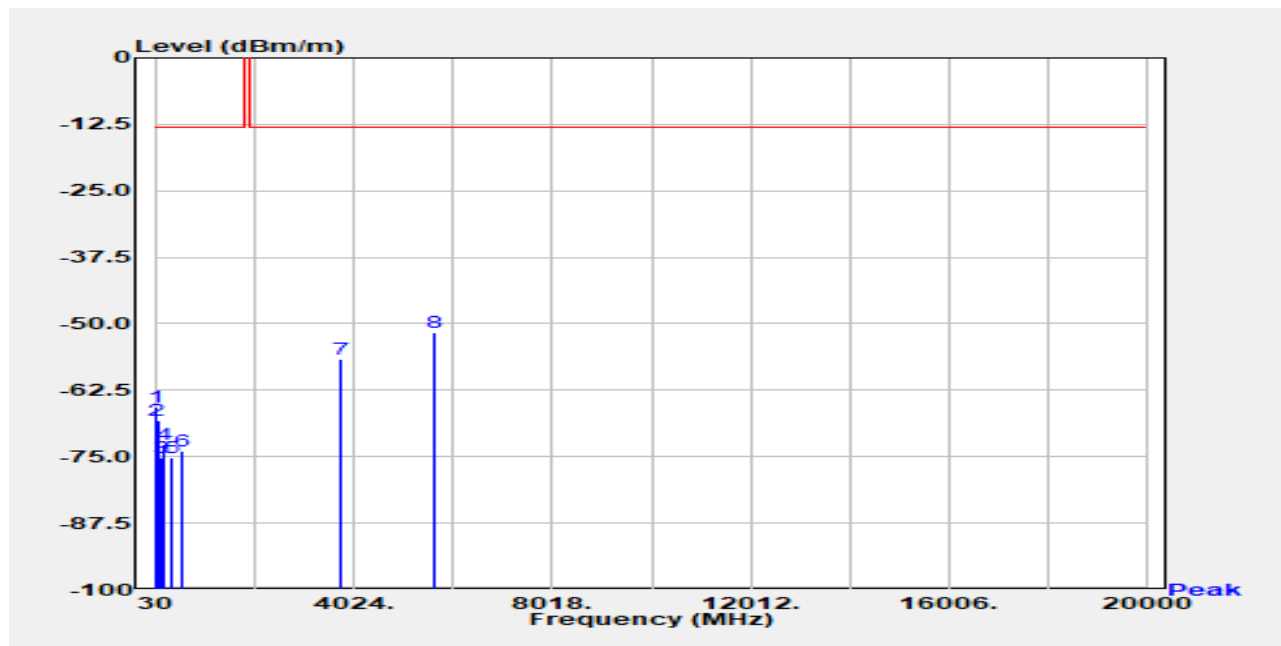
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Horizontal

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-65.65	-53.72	-11.30	-0.63	-13.00	-52.65
75.590	-68.25	-65.00	-2.32	-0.92	-13.00	-55.25
178.410	-75.08	-77.06	3.40	-1.43	-13.00	-62.08
212.360	-72.63	-77.86	6.77	-1.54	-13.00	-59.63
355.920	-75.13	-79.79	6.74	-2.07	-13.00	-62.13
588.720	-74.01	-77.30	6.26	-2.97	-13.00	-61.01
3760.000	-56.69	-62.35	12.36	-6.69	-13.00	-43.69
5640.000	-51.51	-56.27	13.18	-8.42	-13.00	-38.51

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Member of SGS Group

Report Number :TERF2305001075ER

Operation Mode :WCDMA B2

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1907.6 MHz

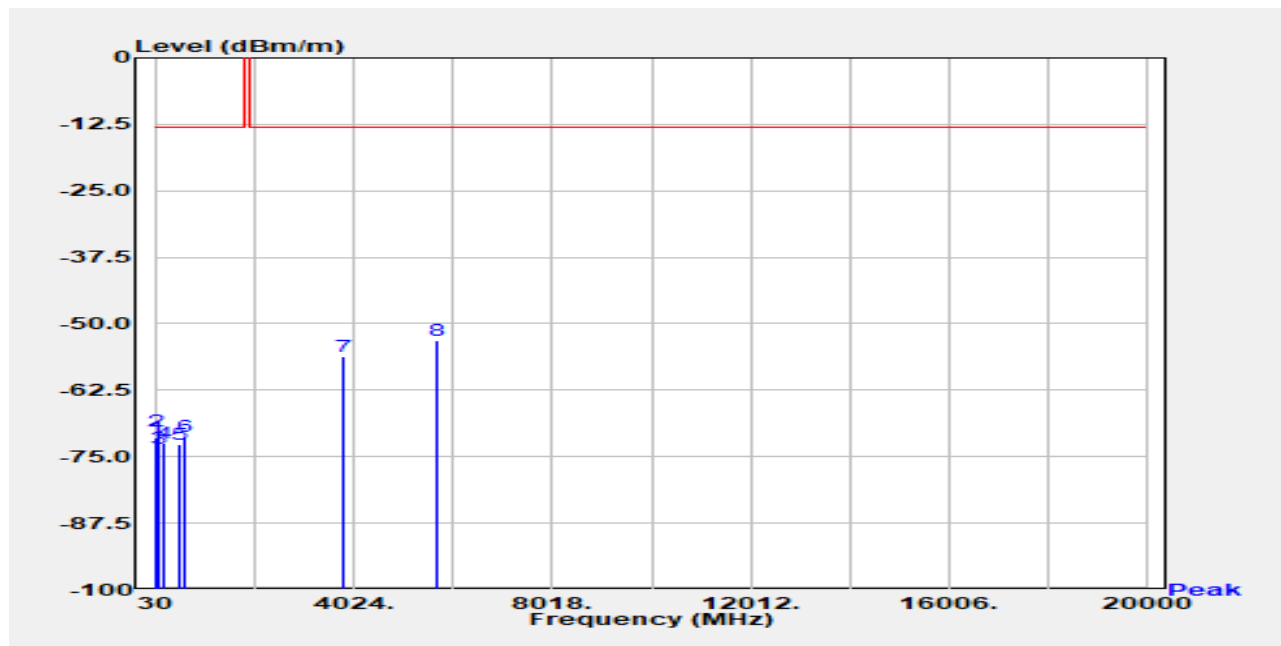
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Vertical

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.43	-59.14	-11.68	-0.61	-13.00	-58.43
75.590	-70.17	-66.92	-2.32	-0.92	-13.00	-57.17
102.750	-73.49	-73.78	1.37	-1.08	-13.00	-60.49
212.360	-72.43	-77.66	6.77	-1.54	-13.00	-59.43
516.940	-72.77	-77.02	6.40	-2.15	-13.00	-59.77
604.240	-71.10	-74.61	6.07	-2.56	-13.00	-58.10
3815.200	-56.26	-61.71	12.23	-6.78	-13.00	-43.26
5722.800	-53.03	-57.51	12.95	-8.47	-13.00	-40.03

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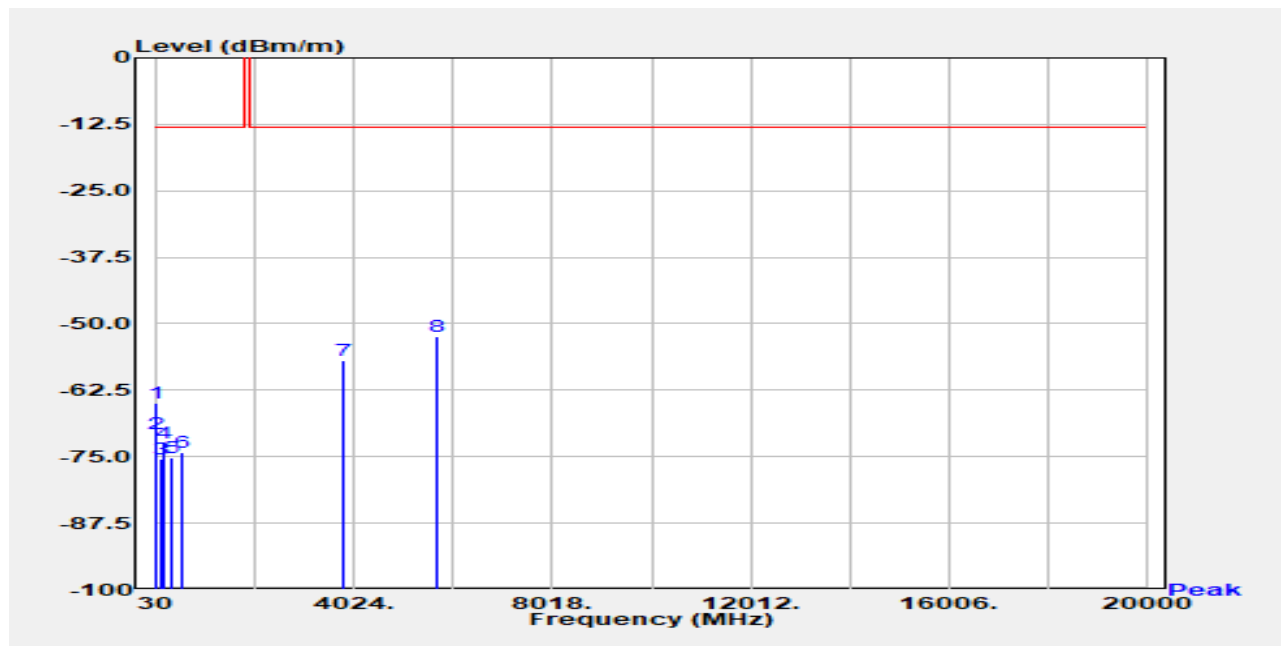
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2305001075ER
 Operation Mode :WCDMA B2
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1907.6 MHz

Test Site :SAC 2
 Test Date :2023-06-27
 Temp./Humi. :25.9°C/55%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-64.86	-53.49	-10.72	-0.65	-13.00	-51.86
74.620	-70.65	-67.04	-2.69	-0.92	-13.00	-57.65
174.530	-75.44	-76.68	2.67	-1.42	-13.00	-62.44
212.360	-72.49	-77.72	6.77	-1.54	-13.00	-59.49
361.740	-75.13	-79.80	6.73	-2.07	-13.00	-62.13
588.720	-74.09	-77.37	6.26	-2.97	-13.00	-61.09
3815.200	-56.97	-62.42	12.23	-6.78	-13.00	-43.97
5722.800	-52.30	-56.79	12.95	-8.47	-13.00	-39.30

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Member of SGS Group

Report Number :TERF2305001075ER

Operation Mode :WCDMA B4

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1712.4 MHz

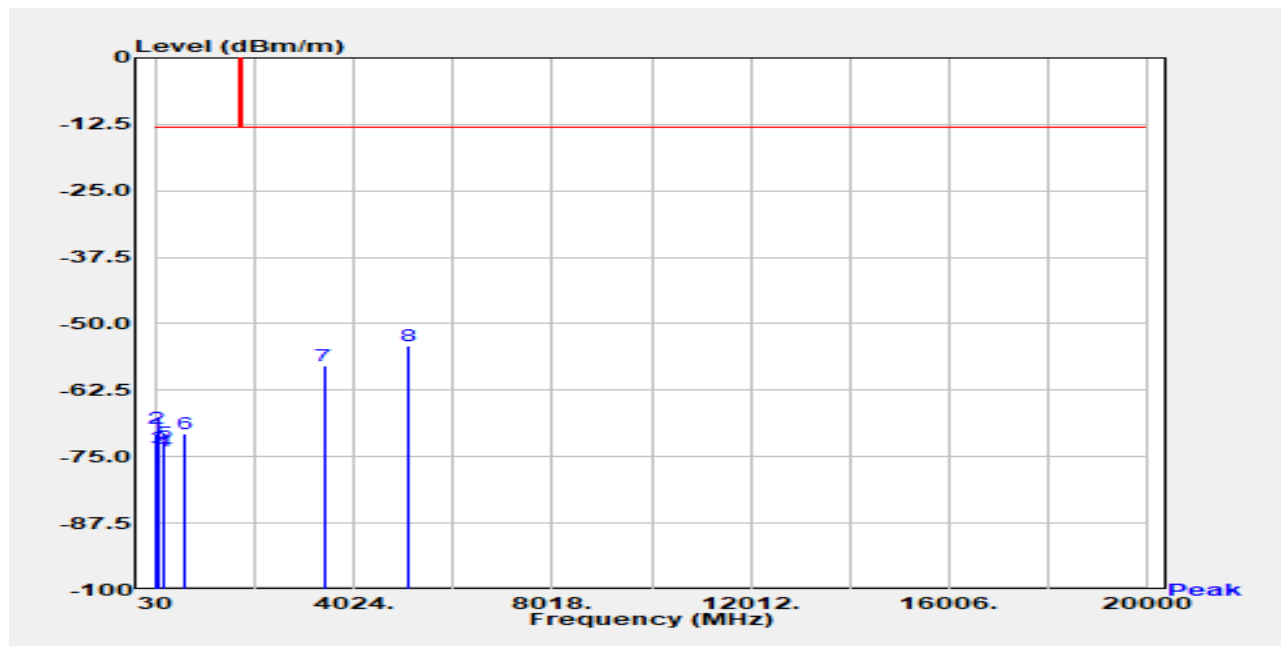
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Vertical

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-70.73	-58.29	-11.84	-0.60	-13.00	-57.73
75.590	-69.62	-66.37	-2.32	-0.92	-13.00	-56.62
102.750	-73.52	-73.80	1.37	-1.08	-13.00	-60.52
187.140	-73.86	-76.98	4.60	-1.48	-13.00	-60.86
214.300	-72.40	-77.63	6.78	-1.55	-13.00	-59.40
602.300	-70.63	-74.16	6.08	-2.55	-13.00	-57.63
3424.800	-57.91	-64.00	12.45	-6.36	-13.00	-44.91
5137.200	-54.26	-58.52	12.23	-7.96	-13.00	-41.26

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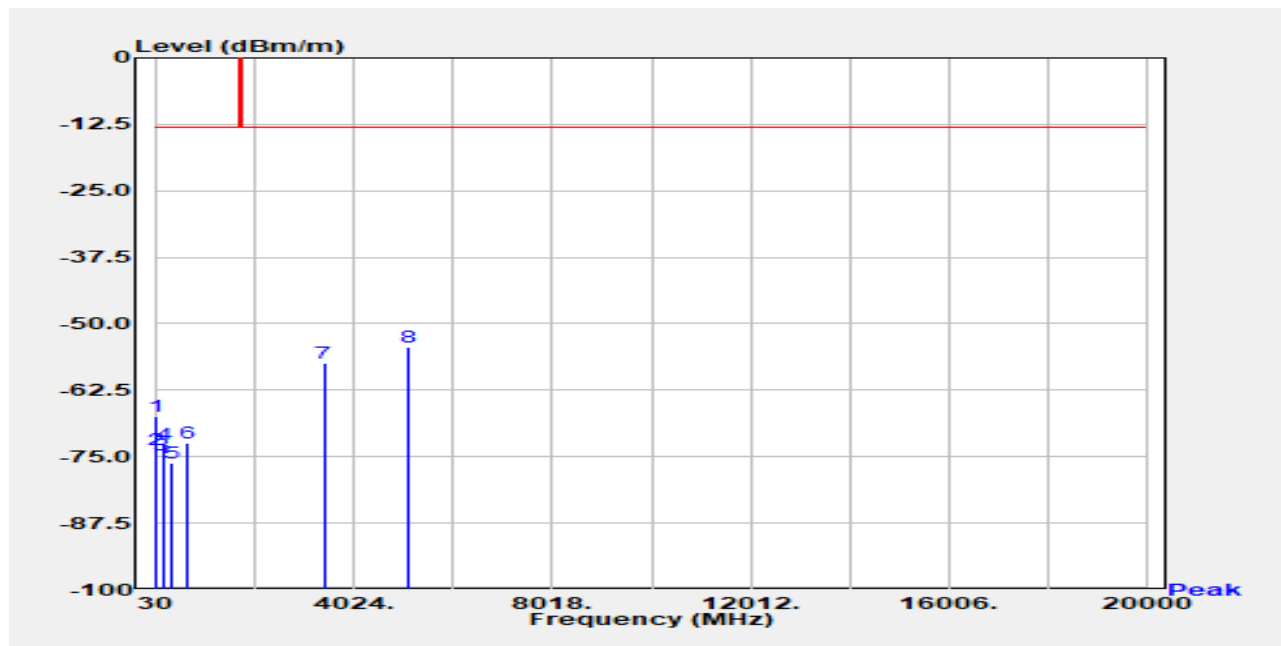
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2305001075ER
 Operation Mode :WCDMA B4
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1712.4 MHz

Test Site :SAC 2
 Test Date :2023-06-27
 Temp./Humi. :25.9°C/55%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-67.36	-55.59	-11.13	-0.64	-13.00	-54.36
69.770	-73.65	-68.22	-4.54	-0.89	-13.00	-60.65
181.320	-74.71	-77.17	3.90	-1.44	-13.00	-61.71
214.300	-72.64	-77.87	6.78	-1.55	-13.00	-59.64
347.190	-76.07	-80.58	6.60	-2.09	-13.00	-63.07
657.590	-72.37	-75.88	6.04	-2.53	-13.00	-59.37
3424.800	-57.49	-63.58	12.45	-6.36	-13.00	-44.49
5137.200	-54.39	-58.65	12.23	-7.96	-13.00	-41.39

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Report Number :TERF2305001075ER

Test Site :SAC 2

Operation Mode :WCDMA B4

Test Date :2023-06-27

Test Mode :Tx

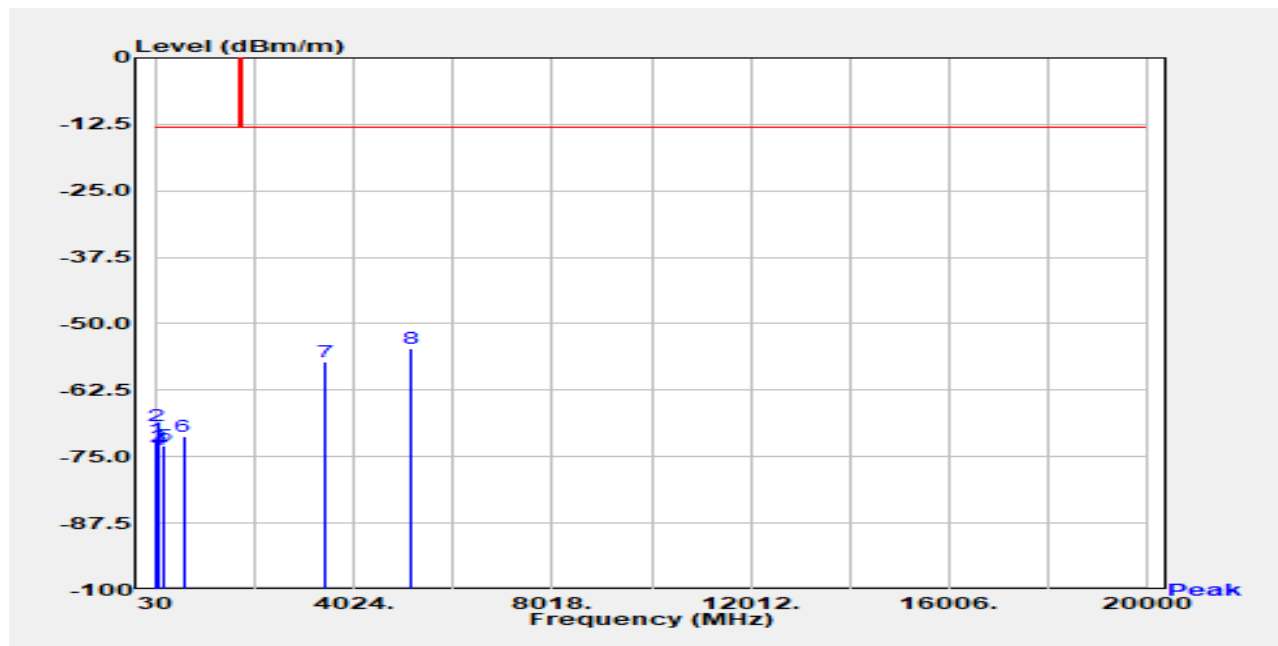
Temp./Humi. :25.9°C/55%

EUT Pol :E1 Plane

Antenna Pol. :Vertical

Test Frequency :1732.6 MHz

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.75	-59.45	-11.68	-0.61	-13.00	-58.75
75.590	-69.25	-66.00	-2.32	-0.92	-13.00	-56.25
86.260	-73.07	-73.43	1.35	-0.99	-13.00	-60.07
102.750	-73.75	-74.04	1.37	-1.08	-13.00	-60.75
210.420	-73.00	-78.23	6.77	-1.54	-13.00	-60.00
599.390	-71.23	-74.75	6.09	-2.57	-13.00	-58.23
3465.200	-57.16	-63.17	12.37	-6.37	-13.00	-44.16
5197.800	-54.55	-58.97	12.39	-7.97	-13.00	-41.55

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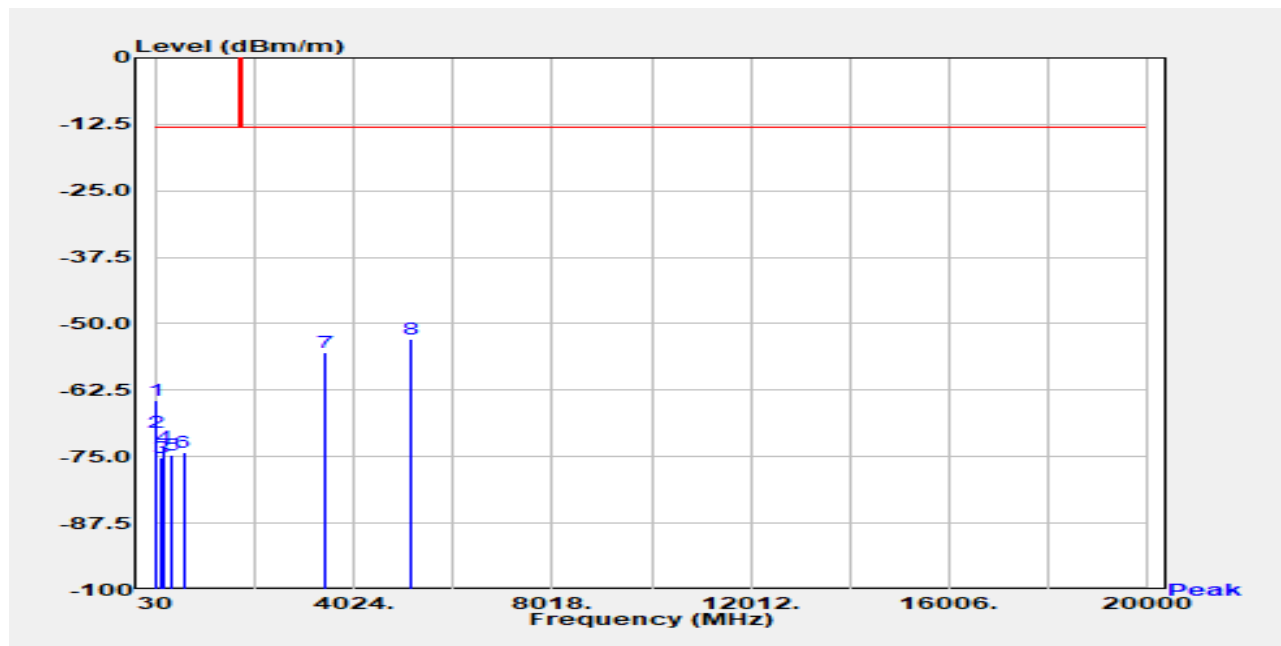
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Report Number :TERF2305001075ER
 Operation Mode :WCDMA B4
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1732.6 MHz

Test Site :SAC 2
 Test Date :2023-06-27
 Temp./Humi. :25.9°C/55%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-64.31	-52.94	-10.72	-0.65	-13.00	-51.31
68.800	-70.45	-64.68	-4.90	-0.88	-13.00	-57.45
178.410	-75.26	-77.23	3.40	-1.43	-13.00	-62.26
212.360	-73.14	-78.37	6.77	-1.54	-13.00	-60.14
375.320	-74.66	-78.98	6.40	-2.09	-13.00	-61.66
599.390	-74.15	-77.68	6.09	-2.57	-13.00	-61.15
3465.200	-55.37	-61.37	12.37	-6.37	-13.00	-42.37
5197.800	-52.99	-57.41	12.39	-7.97	-13.00	-39.99

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Report Number :TERF2305001075ER

Test Site :SAC 2

Operation Mode :WCDMA B4

Test Date :2023-06-27

Test Mode :Tx

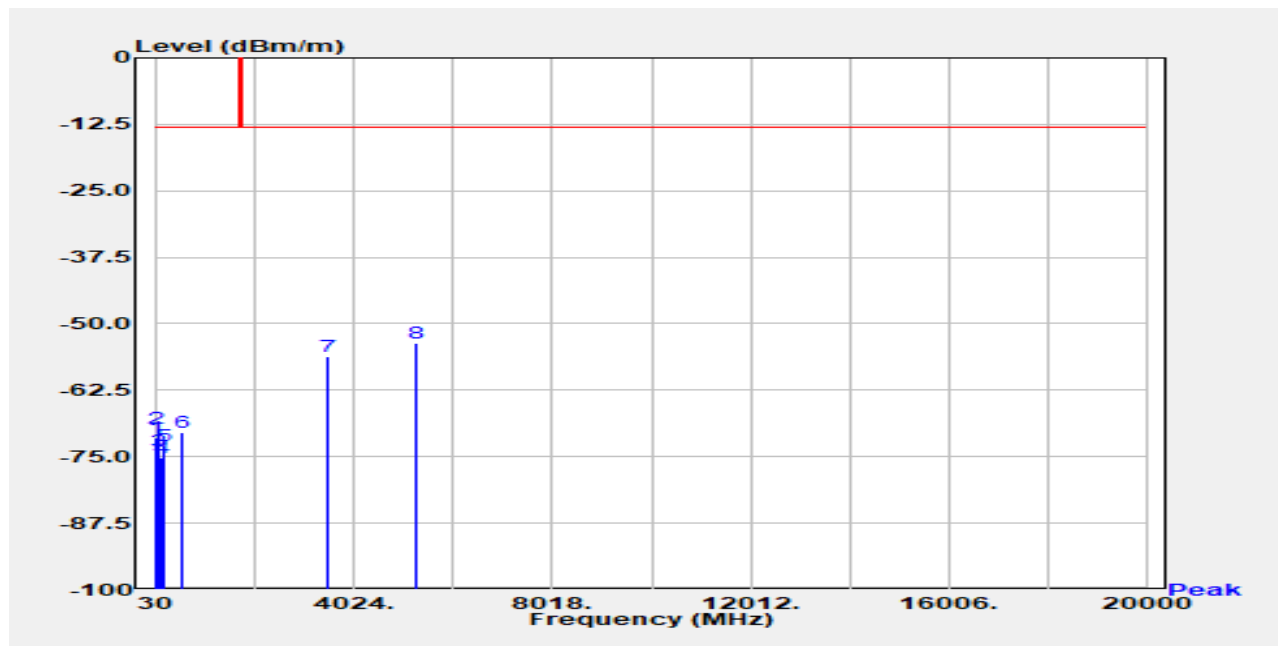
Temp./Humi. :25.9°C/55%

EUT Pol :E1 Plane

Antenna Pol. :Vertical

Test Frequency :1752.6 MHz

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.33	-59.04	-11.68	-0.61	-13.00	-58.33
75.590	-69.70	-66.45	-2.32	-0.92	-13.00	-56.70
103.720	-73.96	-74.10	1.23	-1.09	-13.00	-60.96
177.440	-75.25	-77.02	3.20	-1.43	-13.00	-62.25
211.390	-72.93	-78.16	6.77	-1.54	-13.00	-59.93
597.450	-70.40	-73.85	6.11	-2.65	-13.00	-57.40
3505.200	-56.16	-62.09	12.30	-6.38	-13.00	-43.16
5257.800	-53.64	-58.40	12.85	-8.09	-13.00	-40.64

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Member of SGS Group

Report Number :TERF2305001075ER

Operation Mode :WCDMA B4

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :1752.6 MHz

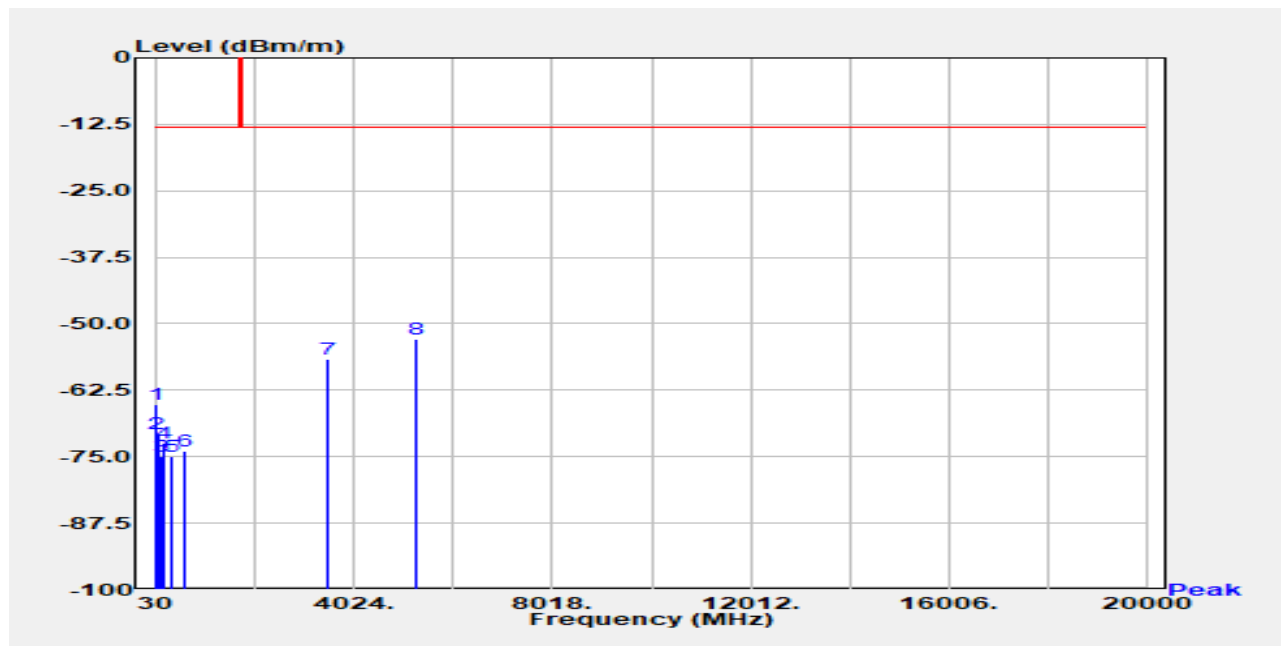
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Horizontal

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-65.15	-53.22	-11.30	-0.63	-13.00	-52.15
75.590	-70.69	-67.44	-2.32	-0.92	-13.00	-57.69
178.410	-74.91	-76.88	3.40	-1.43	-13.00	-61.91
213.330	-72.46	-77.69	6.78	-1.55	-13.00	-59.46
366.590	-75.02	-79.59	6.65	-2.08	-13.00	-62.02
601.330	-73.94	-77.48	6.08	-2.55	-13.00	-60.94
3505.200	-56.73	-62.65	12.30	-6.38	-13.00	-43.73
5257.800	-52.85	-57.61	12.85	-8.09	-13.00	-39.85

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Member of SGS Group

Report Number :TERF2305001075ER

Operation Mode :WCDMA B5

Test Mode :Tx

EUT Pol :E1 Plane

Test Frequency :826.4 MHz

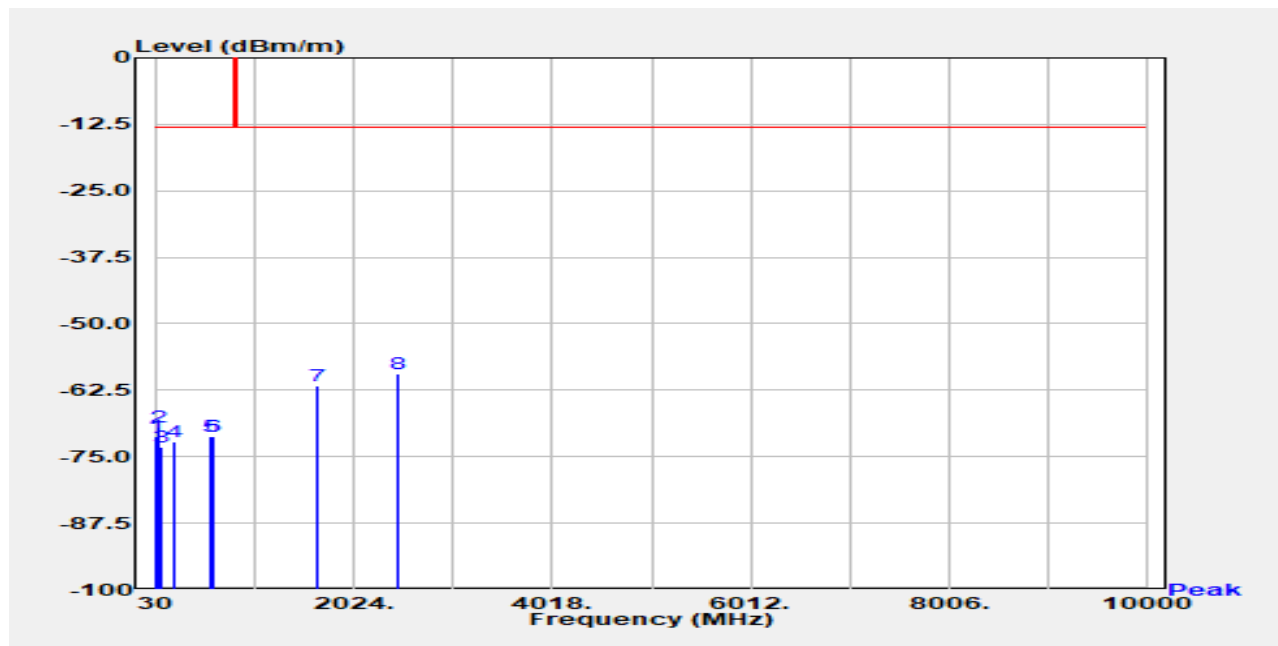
Test Site :SAC 2

Test Date :2023-06-27

Temp./Humi. :25.9°C/55%

Antenna Pol. :Vertical

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.27	-58.97	-11.68	-0.61	-13.00	-58.27
75.590	-69.46	-66.21	-2.32	-0.92	-13.00	-56.46
102.750	-73.31	-73.59	1.37	-1.08	-13.00	-60.31
213.330	-72.12	-77.35	6.78	-1.55	-13.00	-59.12
590.660	-71.30	-74.58	6.23	-2.96	-13.00	-58.30
604.240	-71.24	-74.76	6.07	-2.56	-13.00	-58.24
1652.800	-61.76	-66.65	9.32	-4.44	-13.00	-48.76
2479.200	-59.42	-64.40	10.52	-5.53	-13.00	-46.42

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Report Number :TERF2305001075ER

Test Site :SAC 2

Operation Mode :WCDMA B5

Test Date :2023-06-27

Test Mode :Tx

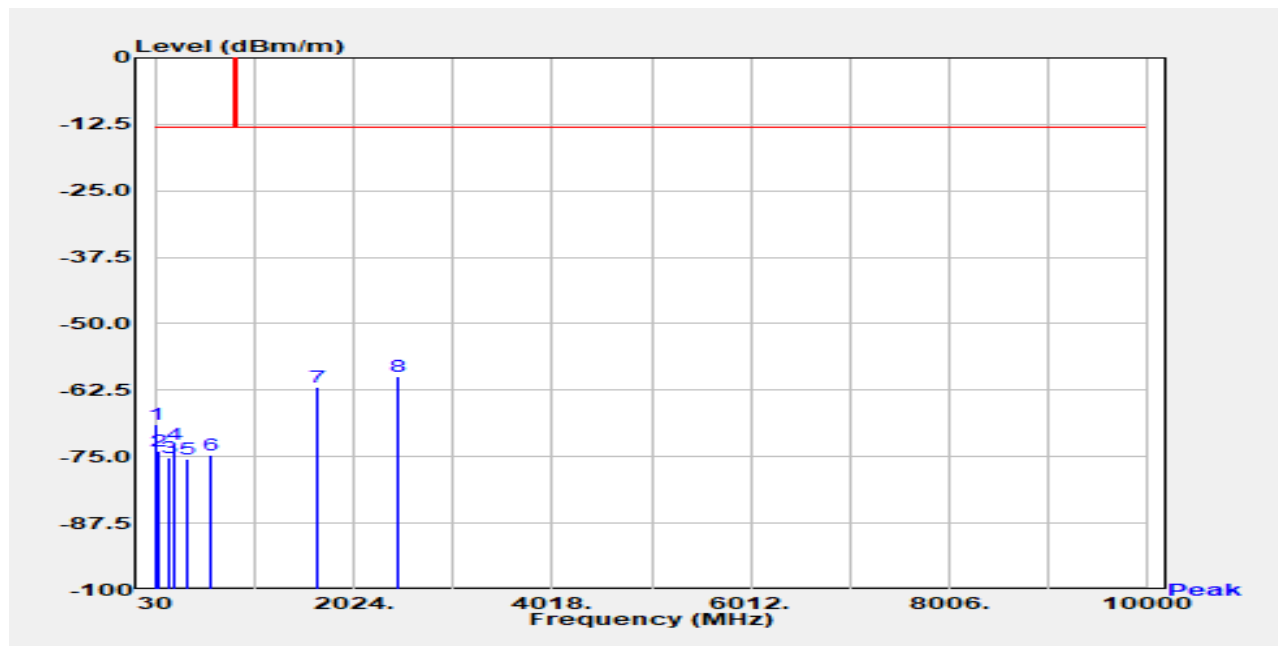
Temp./Humi. :25.9°C/55%

EUT Pol :E1 Plane

Antenna Pol. :Horizontal

Test Frequency :826.4 MHz

Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.820	-68.83	-57.46	-10.72	-0.65	-13.00	-55.83
75.590	-73.87	-70.63	-2.32	-0.92	-13.00	-60.87
181.320	-75.12	-77.57	3.90	-1.44	-13.00	-62.12
213.330	-72.58	-77.81	6.78	-1.55	-13.00	-59.58
346.220	-75.52	-80.02	6.59	-2.09	-13.00	-62.52
600.360	-74.64	-78.19	6.09	-2.54	-13.00	-61.64
1652.800	-61.84	-66.72	9.32	-4.44	-13.00	-48.84
2479.200	-59.89	-64.88	10.52	-5.53	-13.00	-46.89

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Member of SGS Group

Report Number :TERF2305001075ER

Test Site :SAC 2

Operation Mode :WCDMA B5

Test Date :2023-06-27

Test Mode :Tx

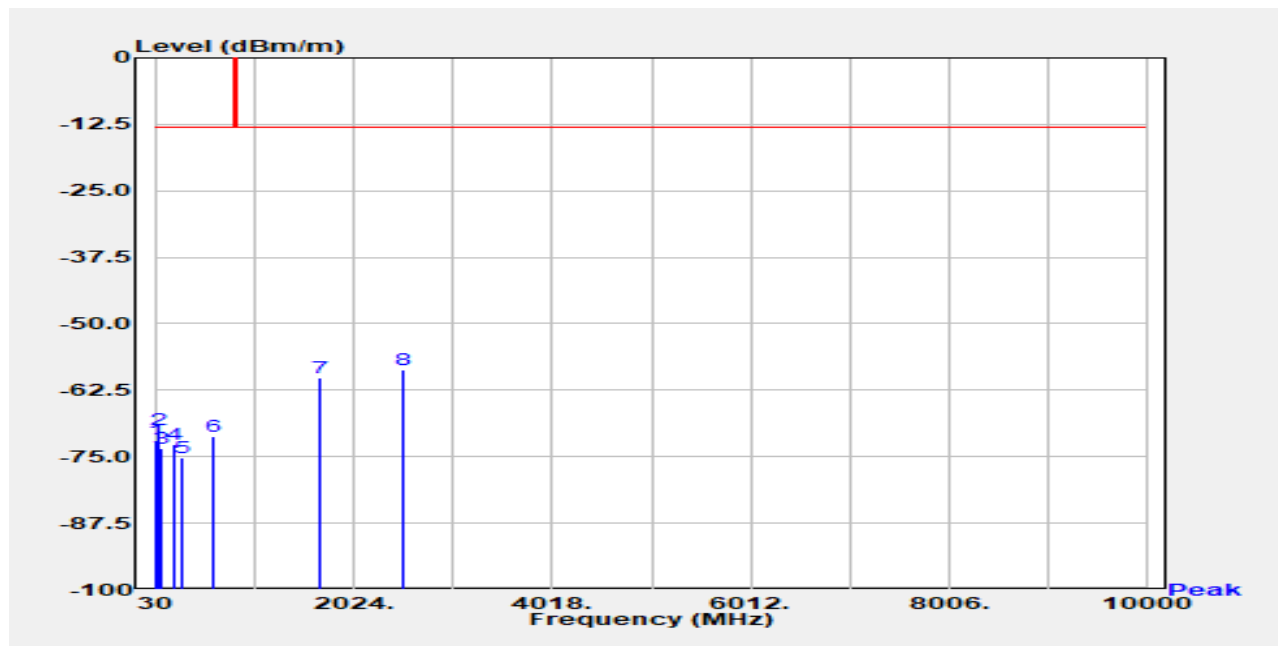
Temp./Humi. :25.9°C/55%

EUT Pol :E1 Plane

Antenna Pol. :Vertical

Test Frequency :836.6 MHz

Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.85	-59.56	-11.68	-0.61	-13.00	-58.85
75.590	-70.00	-66.76	-2.32	-0.92	-13.00	-57.00
103.720	-73.32	-73.46	1.23	-1.09	-13.00	-60.32
211.390	-72.59	-77.82	6.77	-1.54	-13.00	-59.59
295.780	-75.29	-79.57	6.14	-1.86	-13.00	-62.29
614.910	-71.20	-74.62	6.01	-2.60	-13.00	-58.20
1673.200	-60.09	-65.11	9.49	-4.47	-13.00	-47.09
2509.800	-58.70	-63.73	10.60	-5.57	-13.00	-45.70

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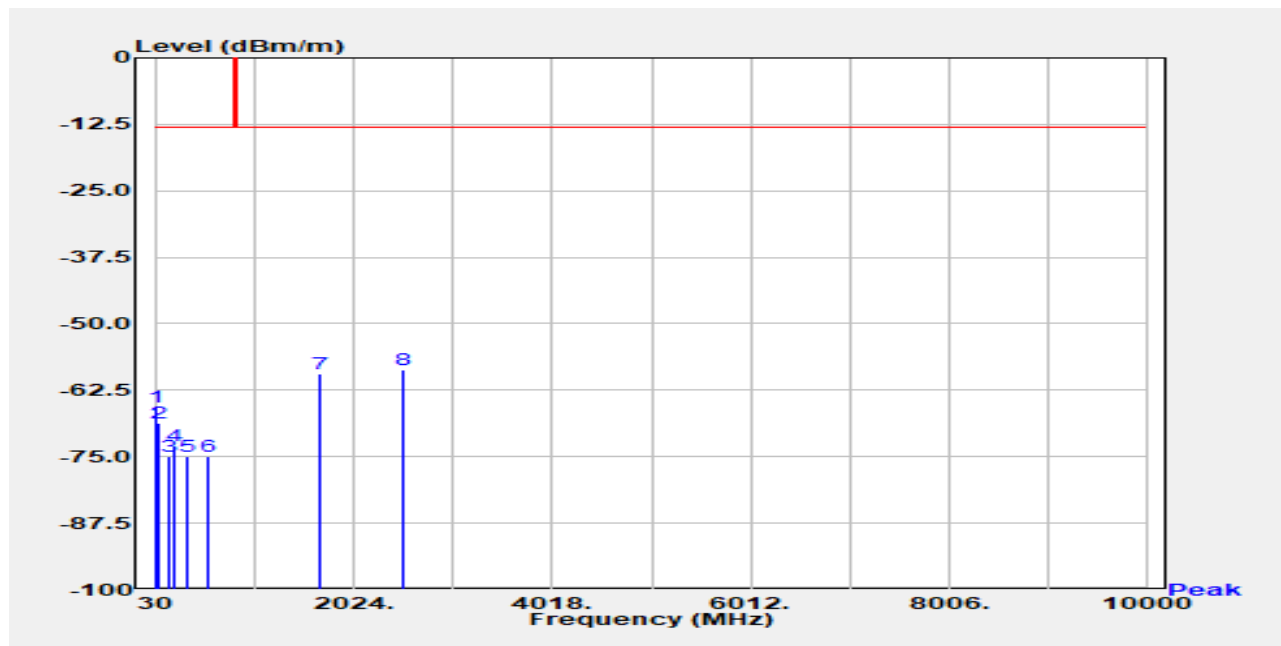
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Member of SGS Group

Report Number :TERF2305001075ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

Test Site :SAC 2
Test Date :2023-06-27
Temp./Humi. :25.9°C/55%
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-65.56	-54.19	-10.72	-0.65	-13.00	-52.56
75.590	-68.61	-65.37	-2.32	-0.92	-13.00	-55.61
180.350	-75.06	-77.29	3.66	-1.43	-13.00	-62.06
211.390	-72.89	-78.12	6.77	-1.54	-13.00	-59.89
348.160	-74.92	-79.44	6.60	-2.09	-13.00	-61.92
551.860	-74.90	-79.14	6.70	-2.45	-13.00	-61.90
1673.200	-59.43	-64.45	9.49	-4.47	-13.00	-46.43
2509.800	-58.60	-63.63	10.60	-5.57	-13.00	-45.60

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Report Number :TERF2305001075ER

Test Site :SAC 2

Operation Mode :WCDMA B5

Test Date :2023-06-27

Test Mode :Tx

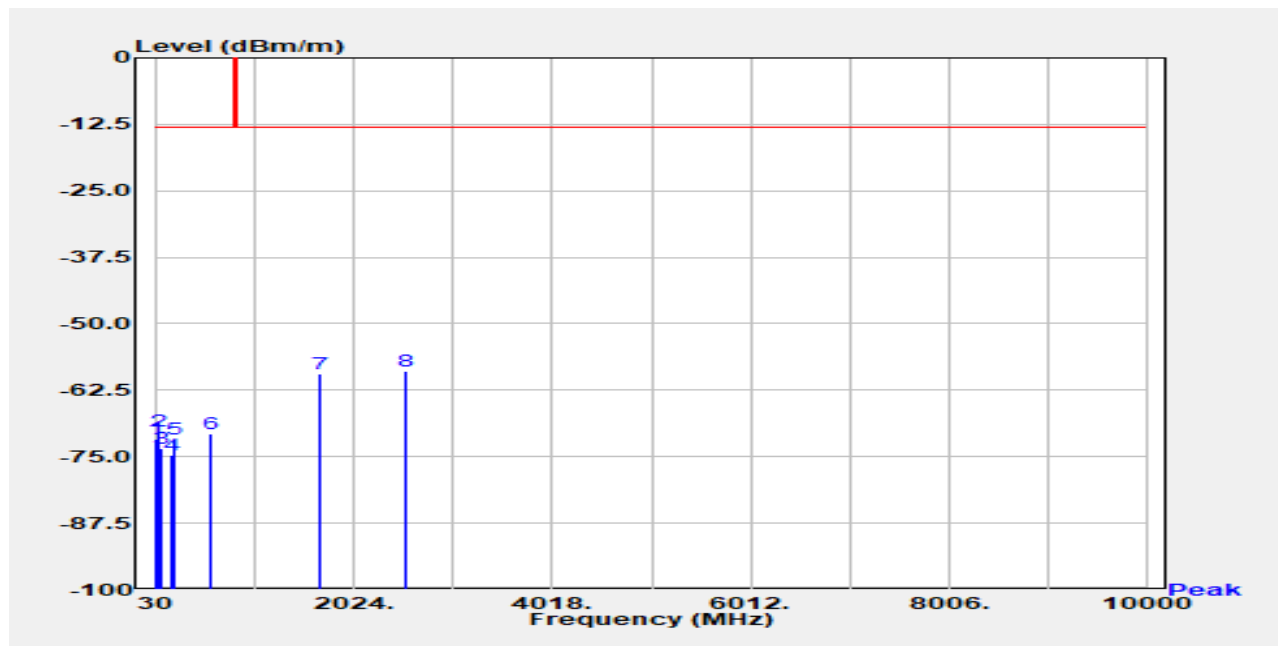
Temp./Humi. :25.9°C/55%

EUT Pol :E1 Plane

Antenna Pol. :Vertical

Test Frequency :846.6 MHz

Engineer :Ricky Chen



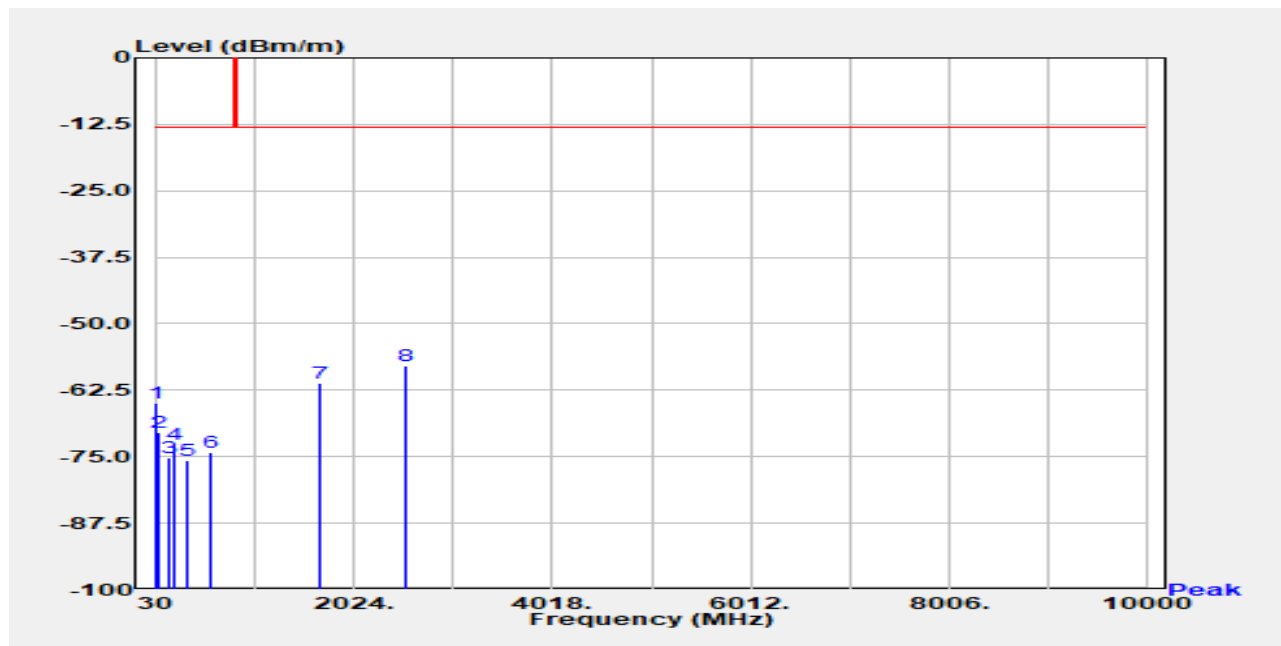
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
32.910	-71.74	-60.06	-11.06	-0.62	-13.00	-58.74
75.590	-70.07	-66.82	-2.32	-0.92	-13.00	-57.07
101.780	-73.35	-73.58	1.30	-1.08	-13.00	-60.35
189.080	-74.62	-78.20	5.07	-1.49	-13.00	-61.62
212.360	-71.65	-76.88	6.77	-1.54	-13.00	-58.65
591.630	-70.62	-73.92	6.21	-2.92	-13.00	-57.62
1693.200	-59.51	-64.67	9.65	-4.49	-13.00	-46.51
2539.800	-59.01	-64.02	10.60	-5.59	-13.00	-46.01

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Report Number :TERF2305001075ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :E1 Plane
Test Frequency :846.6 MHz

Test Site :SAC 2
Test Date :2023-06-27
Temp./Humi. :25.9°C/55%
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
31.940	-64.83	-52.54	-11.68	-0.61	-13.00	-51.83
69.770	-70.54	-65.11	-4.54	-0.89	-13.00	-57.54
181.320	-75.27	-77.73	3.90	-1.44	-13.00	-62.27
213.330	-72.67	-77.90	6.78	-1.55	-13.00	-59.67
365.620	-75.64	-80.23	6.67	-2.08	-13.00	-62.64
599.390	-74.10	-77.63	6.09	-2.57	-13.00	-61.10
1693.200	-61.07	-66.22	9.65	-4.49	-13.00	-48.07
2539.800	-57.96	-62.97	10.60	-5.59	-13.00	-44.96

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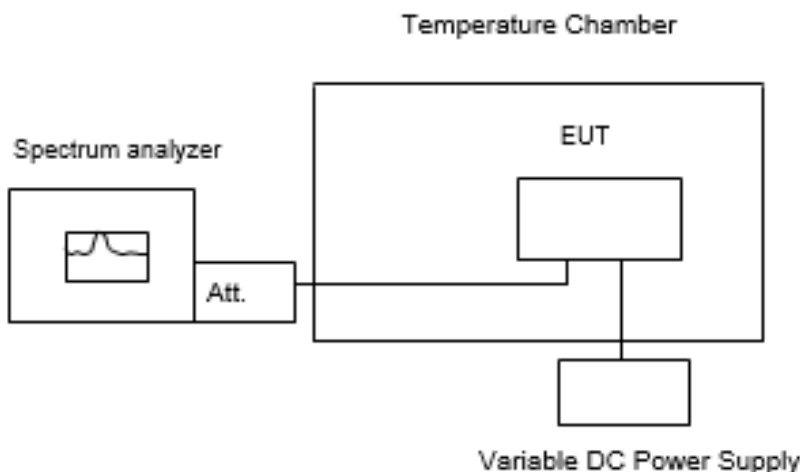
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12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

12.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

12.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

12.4 Measurement Result

Note: The battery is rated 3.89V dc.

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GPRS 850 Mid Channel			836.6000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	836.6000111	0.0132	+/- 2.5 ppm
3.89	20	836.5999893	-0.0128	
3.3065	20	836.599995	-0.0060	
3.4 (End point)	20	836.5999909	-0.0109	
FREQUENCY ERROR vs. Temp.				
3.89	50	836.6000125	0.0149	+/- 2.5 ppm
3.89	40	836.5999897	-0.0123	
3.89	30	836.5999987	-0.0016	
3.89	20	836.6000053	0.0063	
3.89	10	836.5999956	-0.0053	
3.89	0	836.6000141	0.0168	
3.89	-10	836.5999862	-0.0165	
3.89	-20	836.5999951	-0.0059	
3.89	-30	836.6000055	0.0066	

GPRS 1900 Mid Channel			1880.0000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	1879.999987	-0.0070	+/- 2.5 ppm
3.89	20	1879.999989	-0.0058	
3.3065	20	1880.000007	0.0040	
3.4 (End point)	20	1880.000004	0.0023	
FREQUENCY ERROR vs. Temp.				
3.89	50	1879.999986	-0.0075	+/- 2.5 ppm
3.89	40	1879.999992	-0.0042	
3.89	30	1879.999987	-0.0071	
3.89	20	1880.000014	0.0072	
3.89	10	1880.00001	0.0055	
3.89	0	1879.999986	-0.0073	
3.89	-10	1879.999999	-0.0005	
3.89	-20	1880.000005	0.0025	
3.89	-30	1879.99999	-0.0052	

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WCDMA II Mid Channel			1880.0000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	1879.999991	-0.0047	+/- 2.5 ppm
3.89	20	1879.99999	-0.0051	
3.3065	20	1880.000012	0.0066	
3.4 (End point)	20	1880.00001	0.0051	
FREQUENCY ERROR vs. Temp.				
3.89	50	1880.000002	0.0012	+/- 2.5 ppm
3.89	40	1880.000013	0.0069	
3.89	30	1880.000008	0.0041	
3.89	20	1880.00001	0.0051	
3.89	10	1880.000004	0.0020	
3.89	0	1879.999985	-0.0078	
3.89	-10	1879.999997	-0.0017	
3.89	-20	1880.000012	0.0066	
3.89	-30	1879.999995	-0.0026	

WCDMA IV Mid Channel 1732.6000 MHz				
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	1732.600012	0.0072	+/- 2.5 ppm
3.89	20	1732.599987	-0.0078	
3.3065	20	1732.600008	0.0049	
3.4 (End point)	20	1732.600005	0.0027	
FREQUENCY ERROR vs. Temp.				
3.89	50	1732.600014	0.0080	+/- 2.5 ppm
3.89	40	1732.599998	-0.0013	
3.89	30	1732.600006	0.0037	
3.89	20	1732.600009	0.0054	
3.89	10	1732.600001	0.0006	
3.89	0	1732.599996	-0.0026	
3.89	-10	1732.599986	-0.0081	
3.89	-20	1732.600009	0.0053	
3.89	-30	1732.600013	0.0073	

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WCDMA V Mid Channel			836.6000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
4.4735	20	836.5999945	-0.0065	+/- 2.5 ppm
3.89	20	836.6000046	0.0054	
3.3065	20	836.5999874	-0.0150	
3.4 (End point)	20	836.599985	-0.0179	
FREQUENCY ERROR vs. Temp.				
3.89	50	836.5999942	-0.0069	+/- 2.5 ppm
3.89	40	836.599997	-0.0036	
3.89	30	836.6000145	0.0173	
3.89	20	836.5999904	-0.0115	
3.89	10	836.6000041	0.0049	
3.89	0	836.5999892	-0.0129	
3.89	-10	836.6000114	0.0137	
3.89	-20	836.5999919	-0.0097	
3.89	-30	836.6000034	0.0040	

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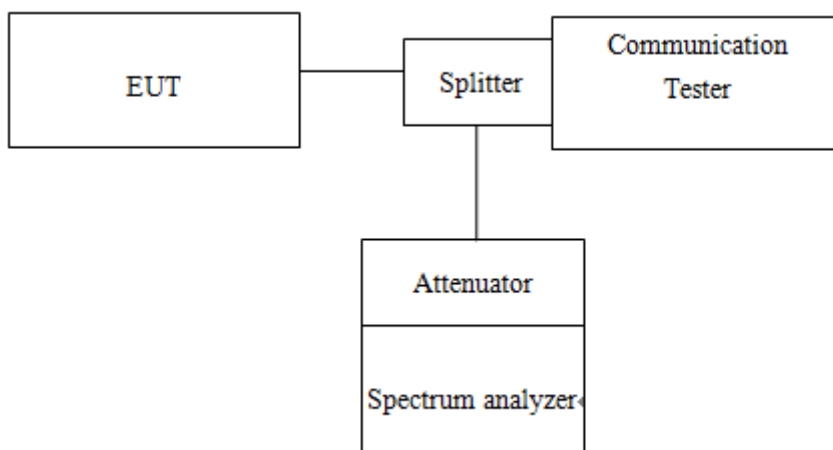
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13 PEAK TO AVERAGE RATIO

13.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

13.2 Test SET-UP



13.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4 Measurement Result

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM 850	GPRS 850	EDGE 850
824.2	128	9.7	9.86	12.78
836.6	190	9.73	9.69	12.67
848.8	251	9.22	9.73	12.44
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	9.52	9.65	12.37
1880	661	9.85	9.41	12.12
1909.8	810	9.96	8.6	12.24

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Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.94	3.82	3.89
1880	9400	2.79	3.61	3.63
1907.6	9538	2.86	3.69	3.96
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.74	3.62	3.95
1732.6	1413	2.81	3.80	3.59
1752.6	1513	2.87	3.63	3.71
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	2.85	3.74	3.70
836.6	4183	2.87	3.95	3.69
846.6	4233	2.88	3.82	3.87

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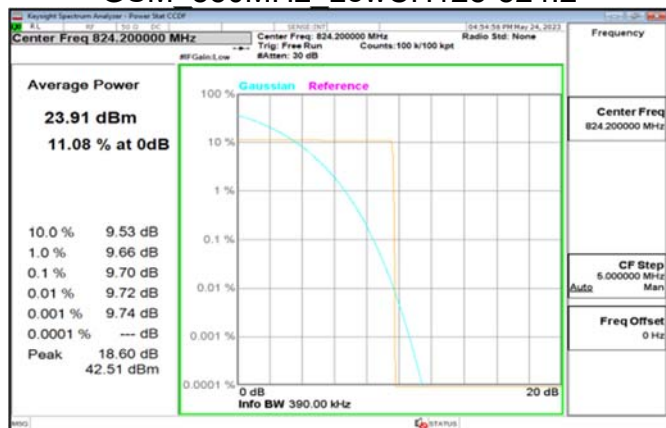
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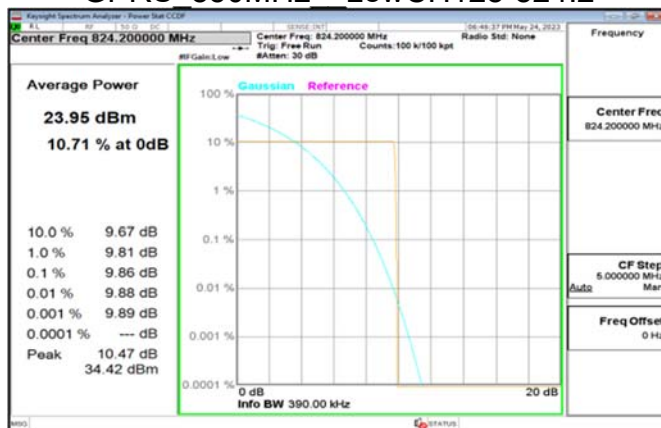
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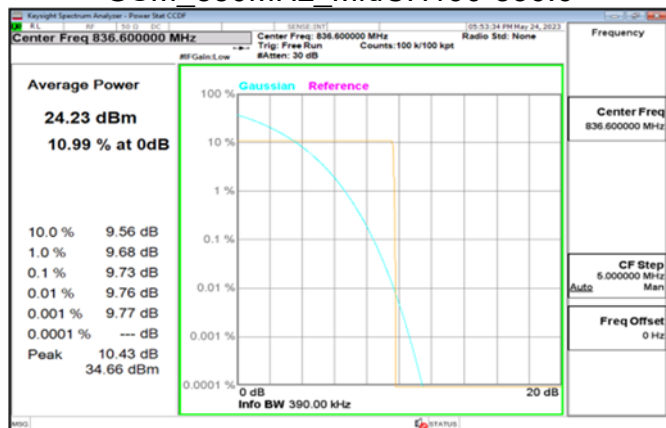
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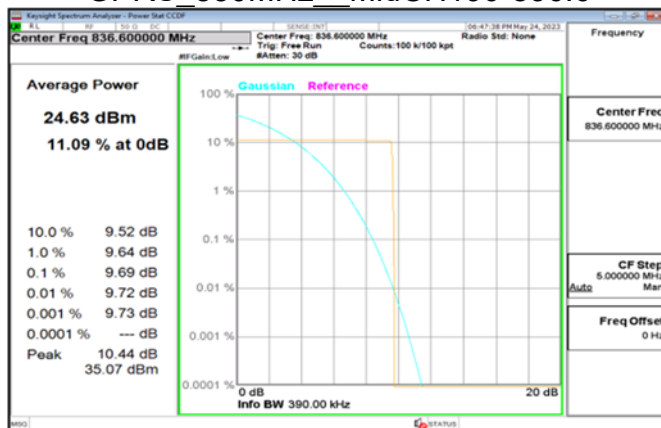
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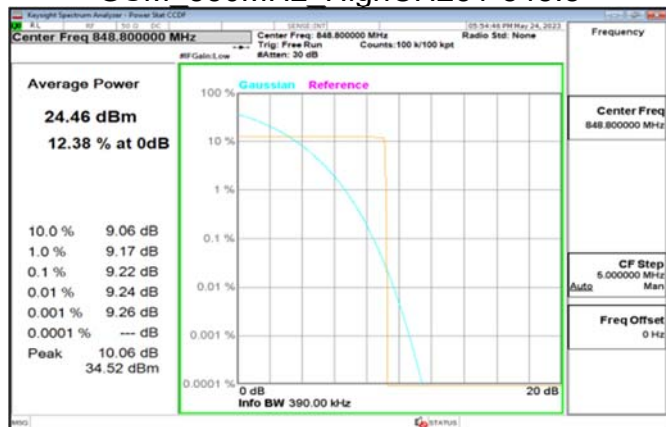
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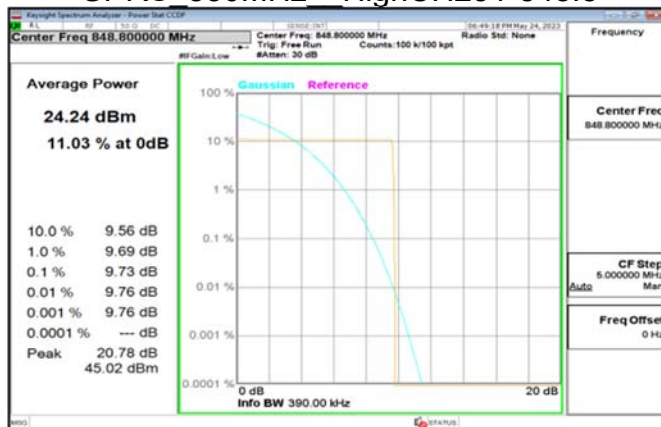
GPRS 850MHz MidCH190-836.6



GSM 850MHz HighCH251-848.8



GPRS 850MHz HighCH251-848.8



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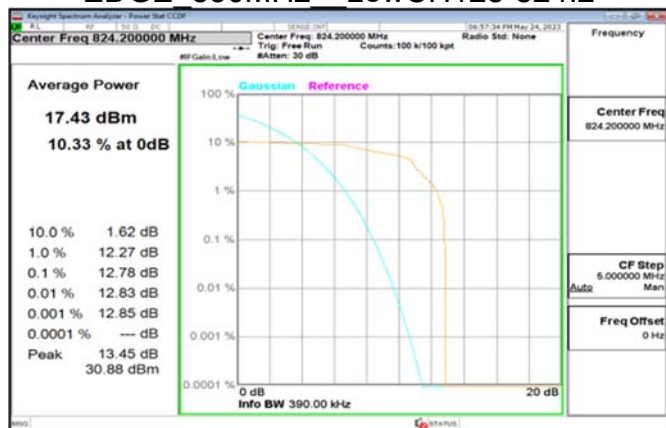
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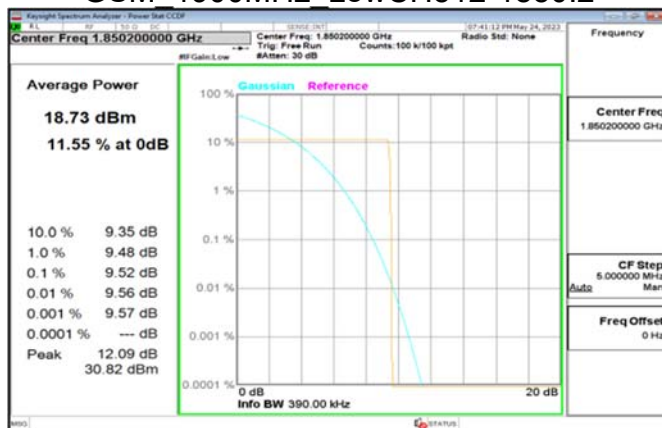
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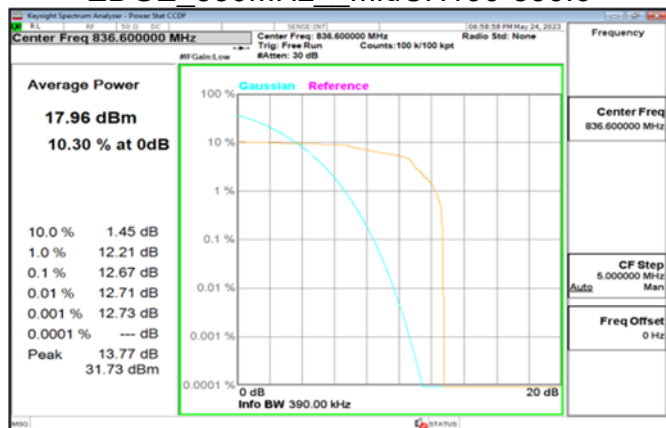
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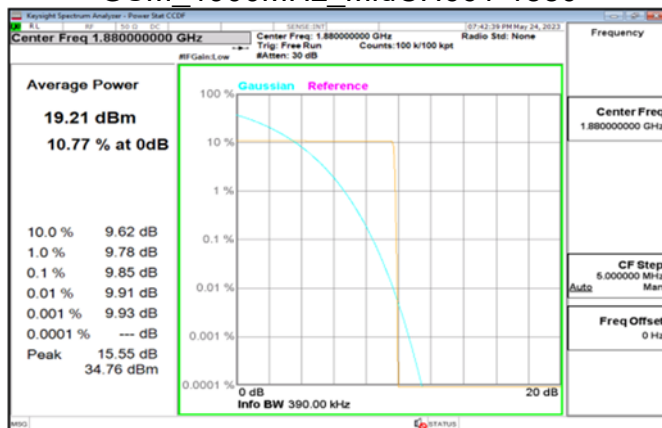
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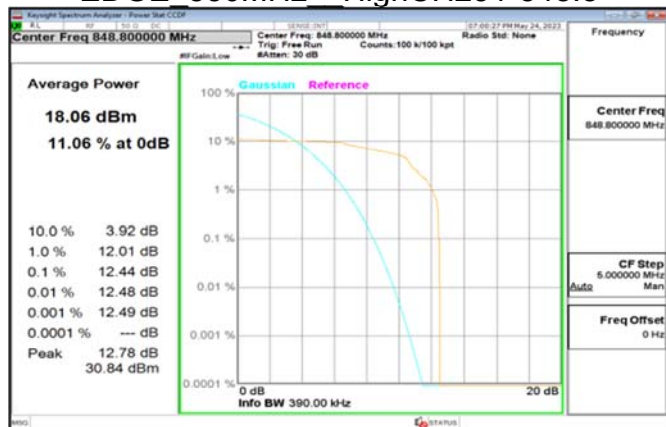
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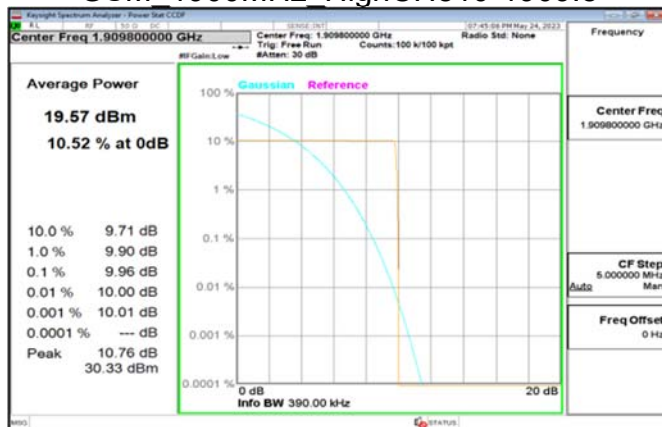
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EDGE 850MHz HighCH251-848.8



GSM 1900MHz HighCH810-1909.8

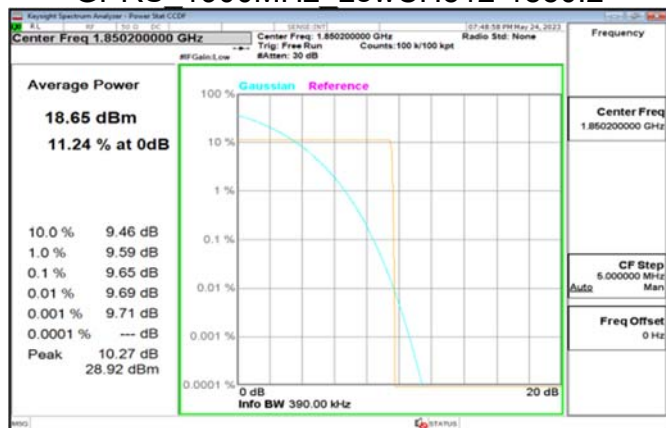


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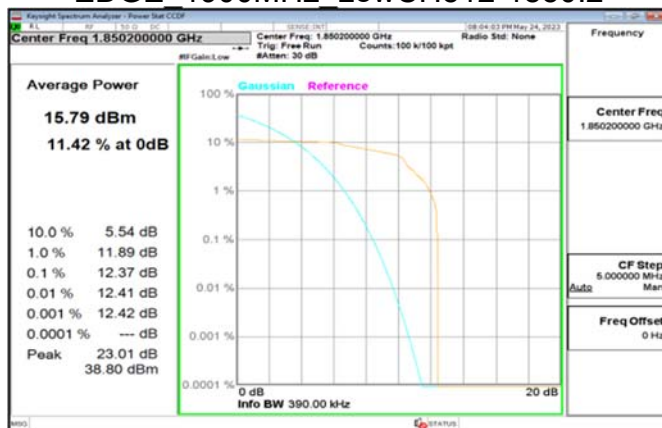
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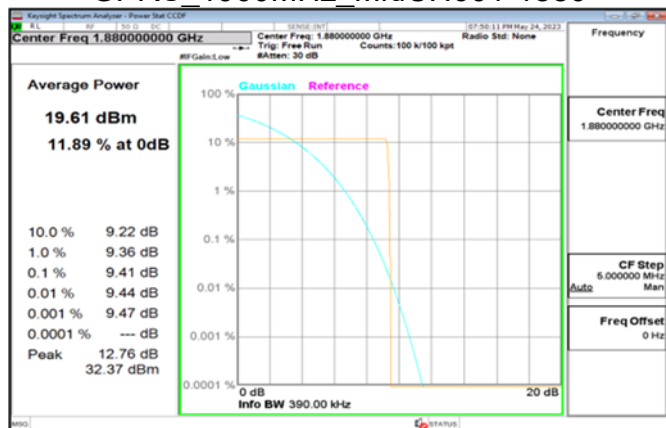
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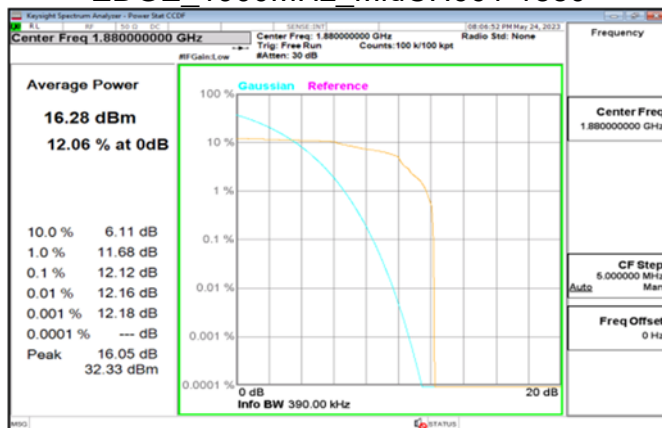
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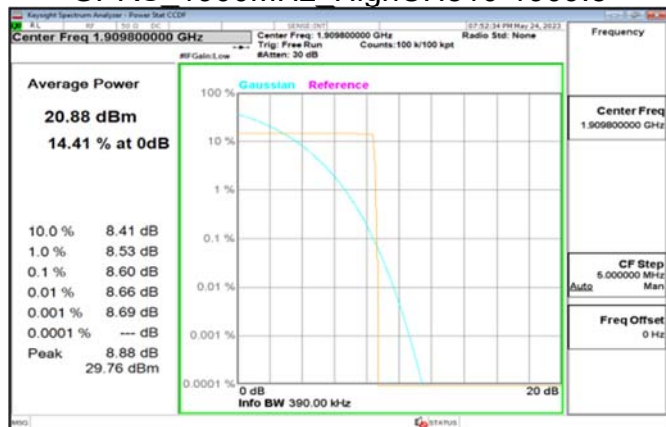
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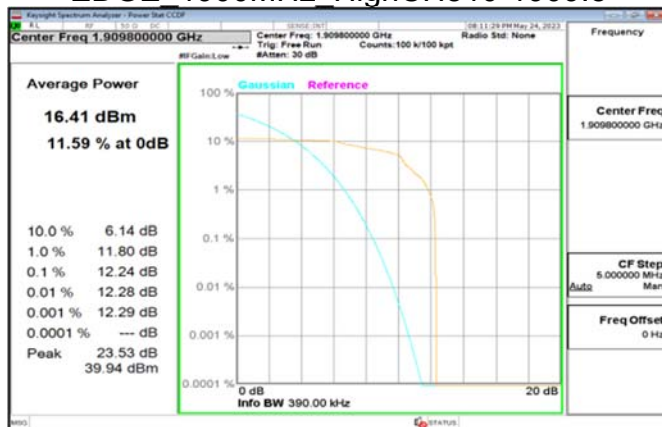
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GPRS 1900MHz HighCH810-1909.8



EDGE 1900MHz HighCH810-1909.8

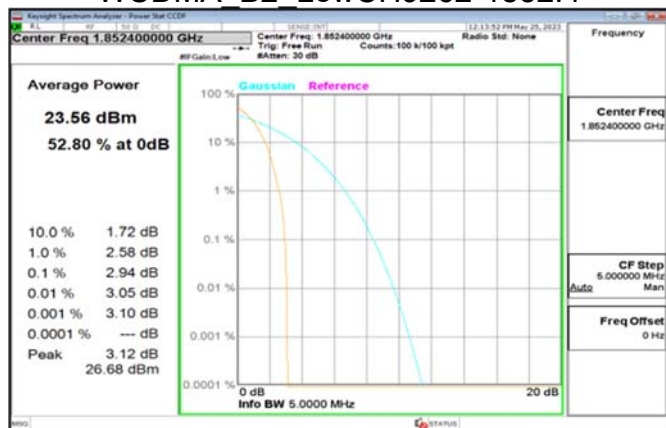


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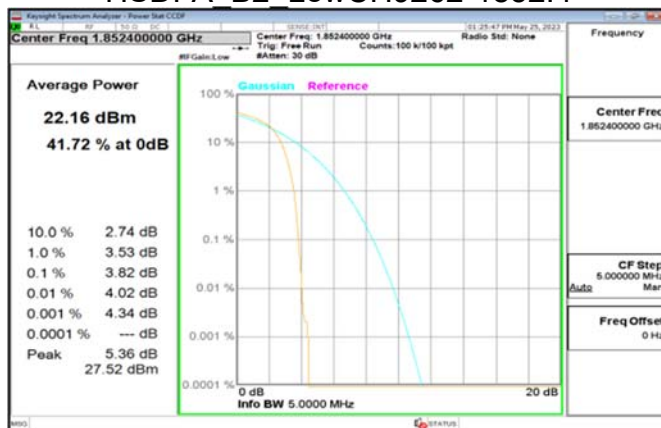
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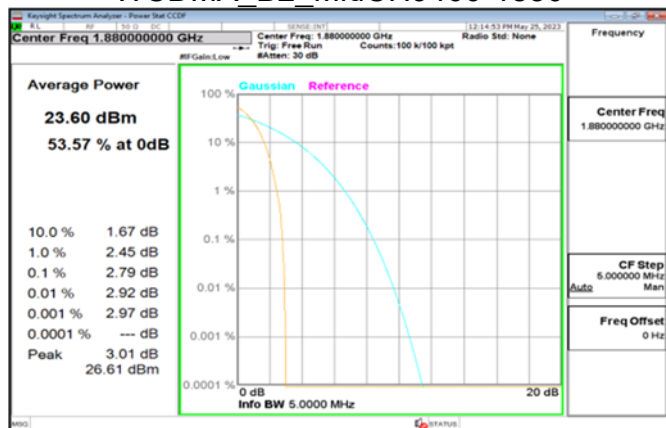
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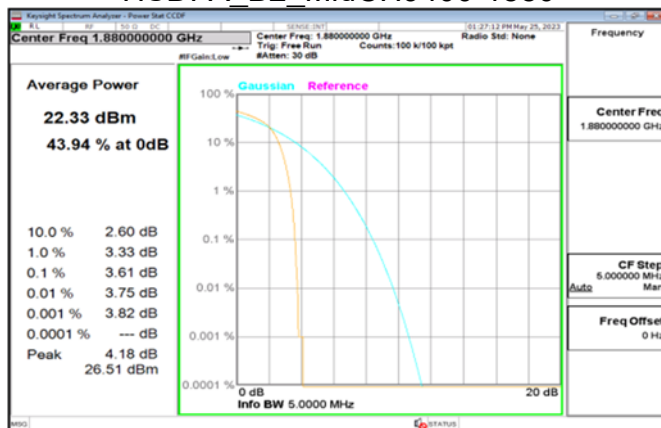
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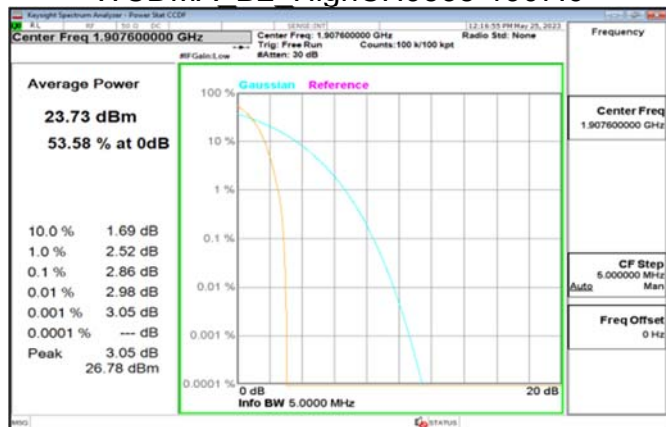
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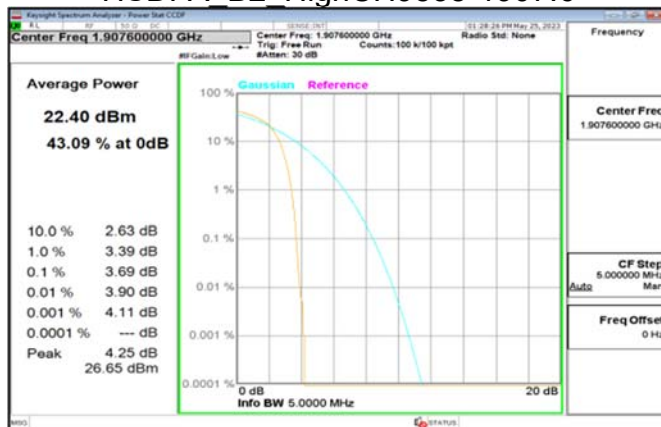
HSDPA B2 MidCH9400-1880



WCDMA B2 HighCH9538-1907.6



HSDPA B2 HighCH9538-1907.6



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台灣檢驗科技股份有限公司

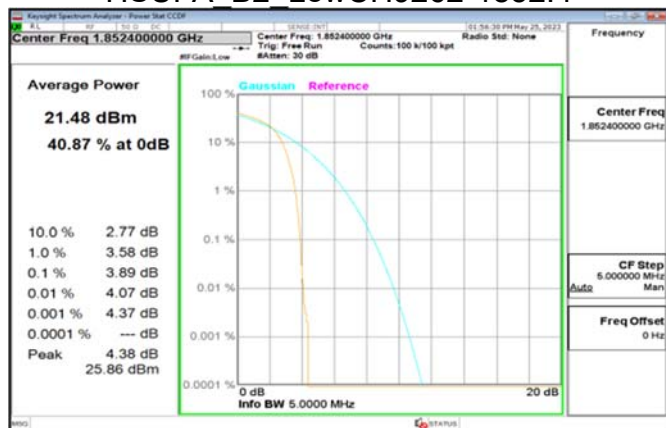
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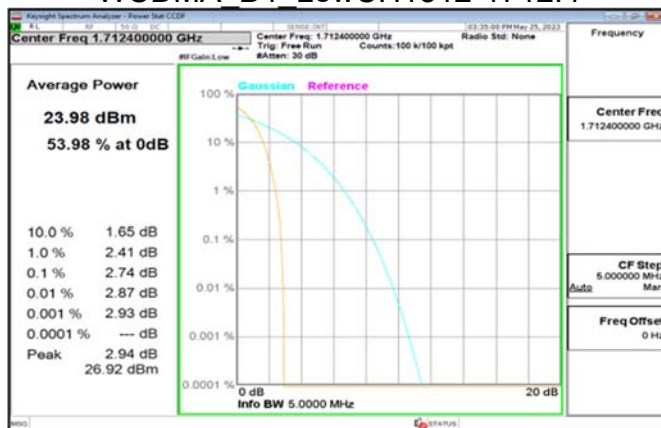
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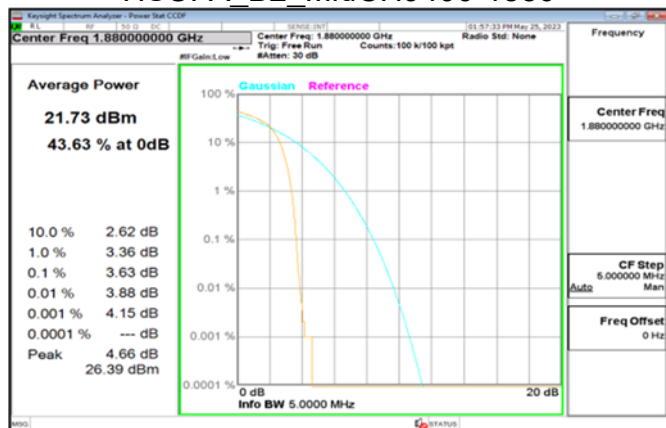
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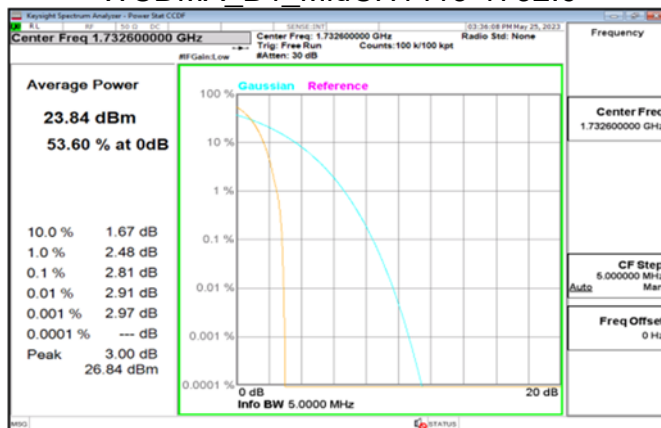
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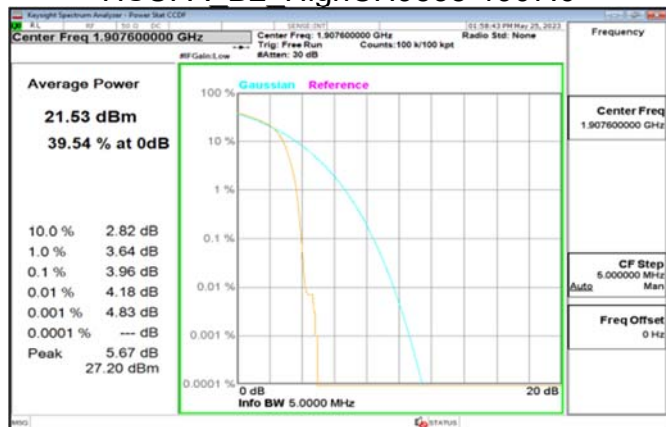
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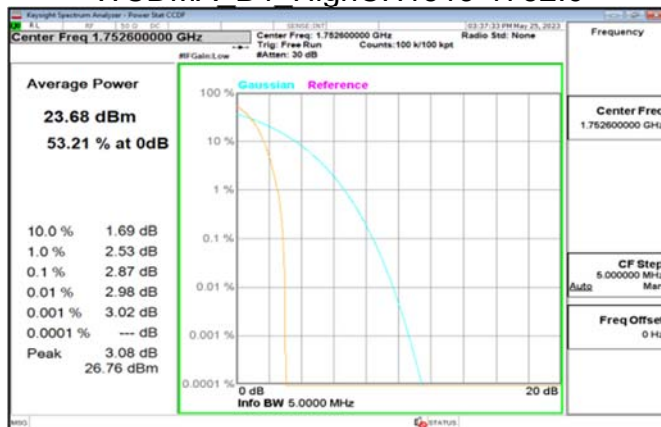
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HSUPA B2 HighCH9538-1907.6



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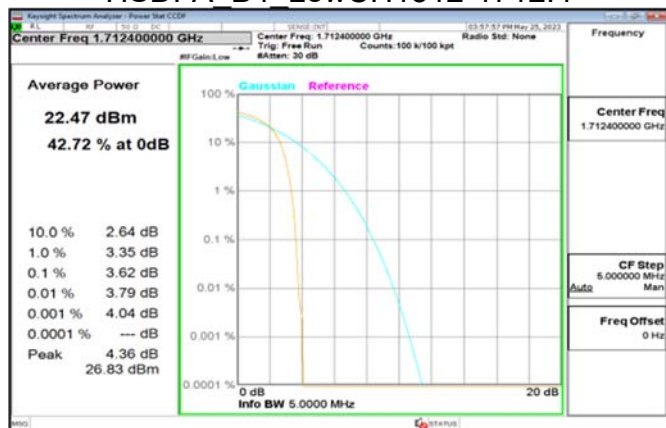


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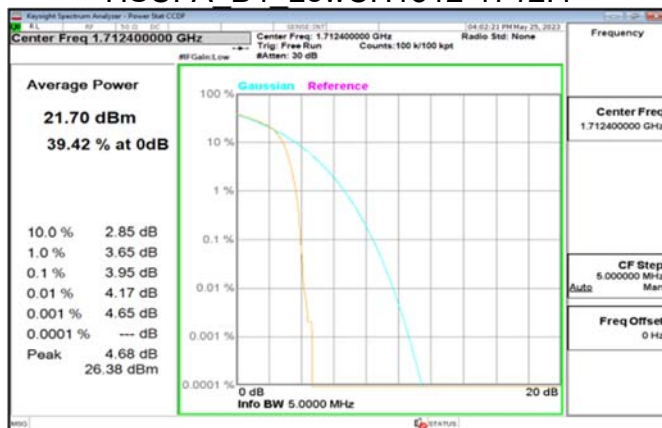
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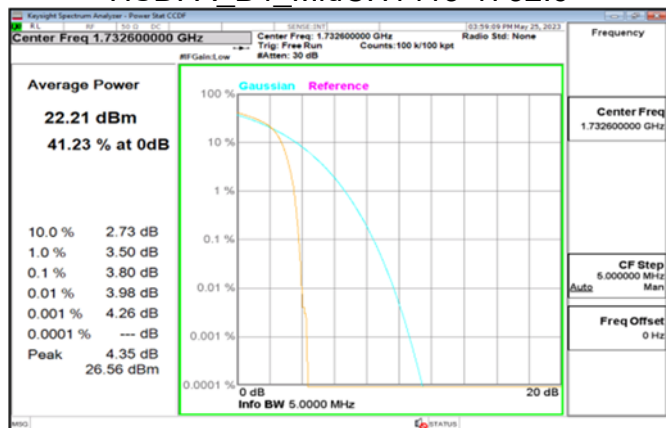
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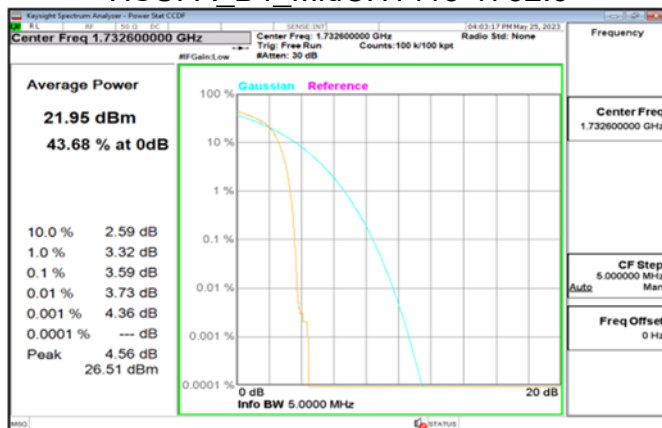
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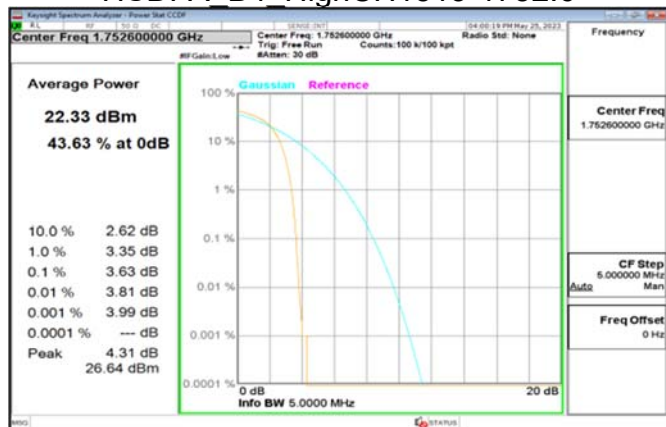
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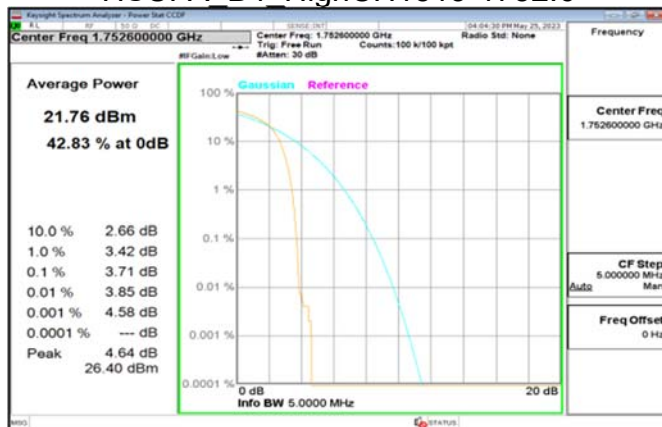
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HSUPA B4 HighCH1513-1752.6

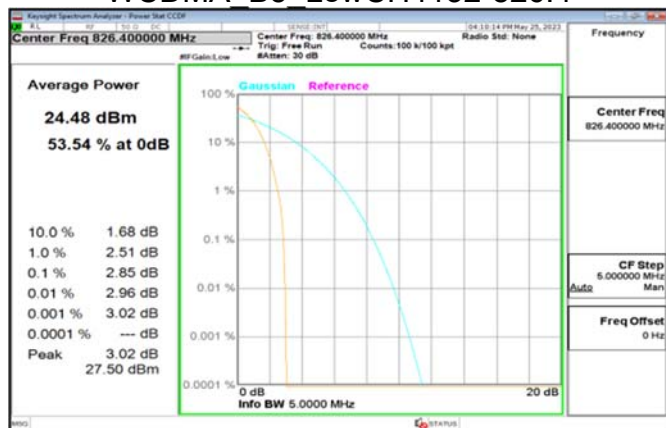


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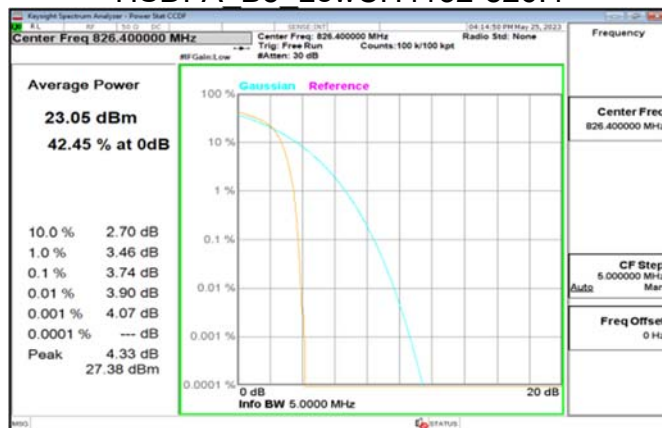
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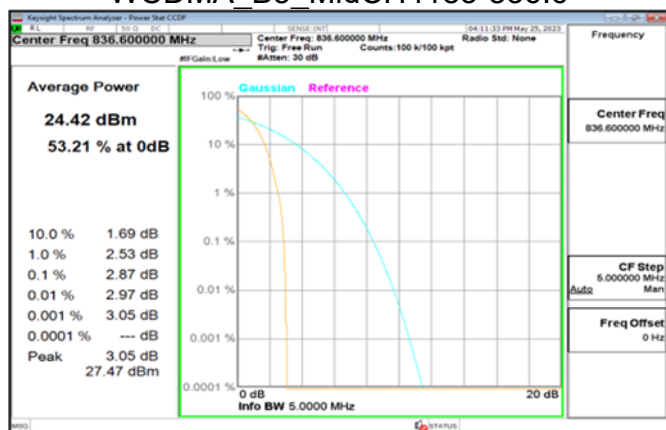
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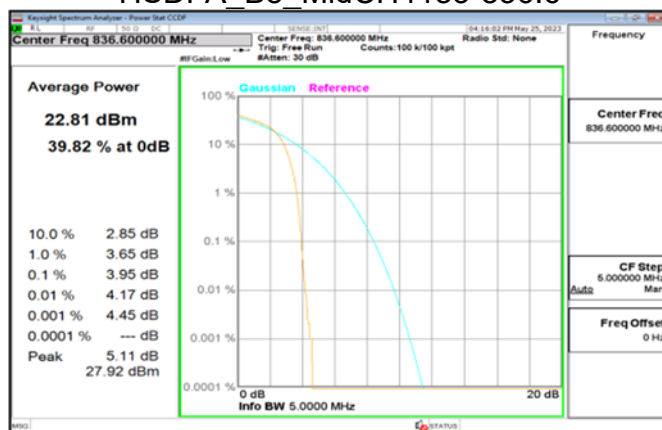
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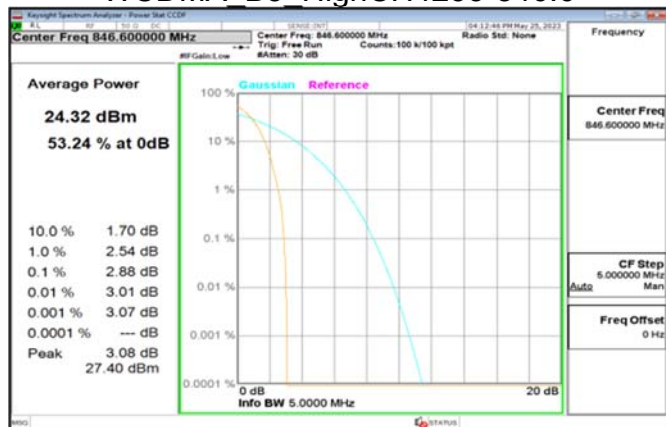
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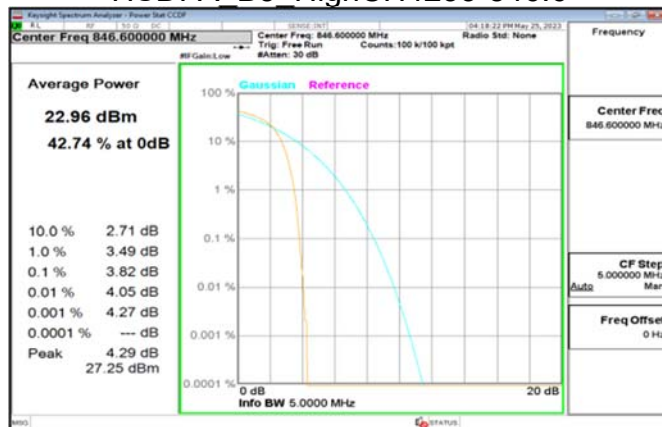
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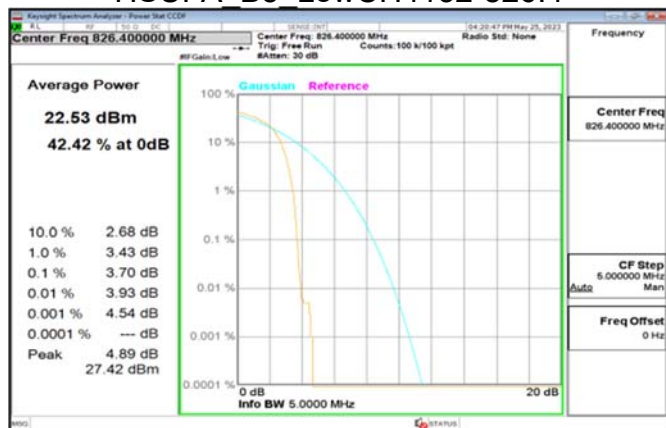


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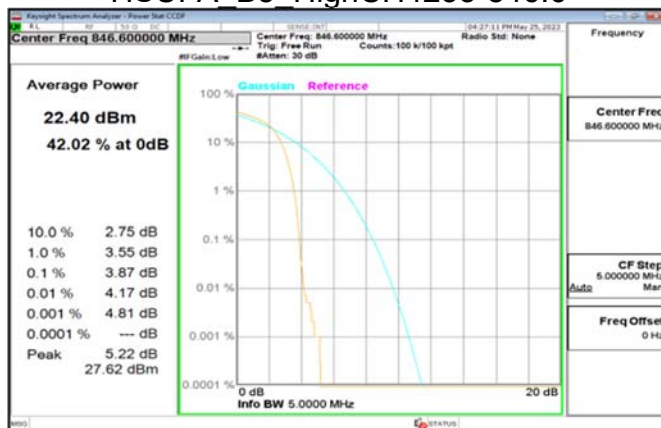
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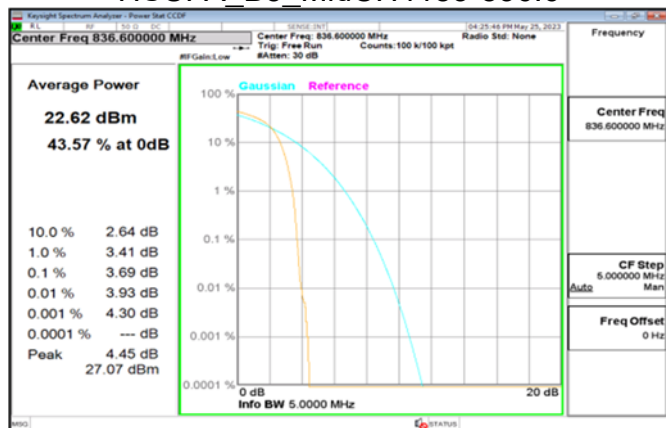
HSUPA B5 LowCH4132-826.4



HSUPA B5 HighCH4233-846.6



HSUPA B5 MidCH4183-836.6



~ End of Report ~

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