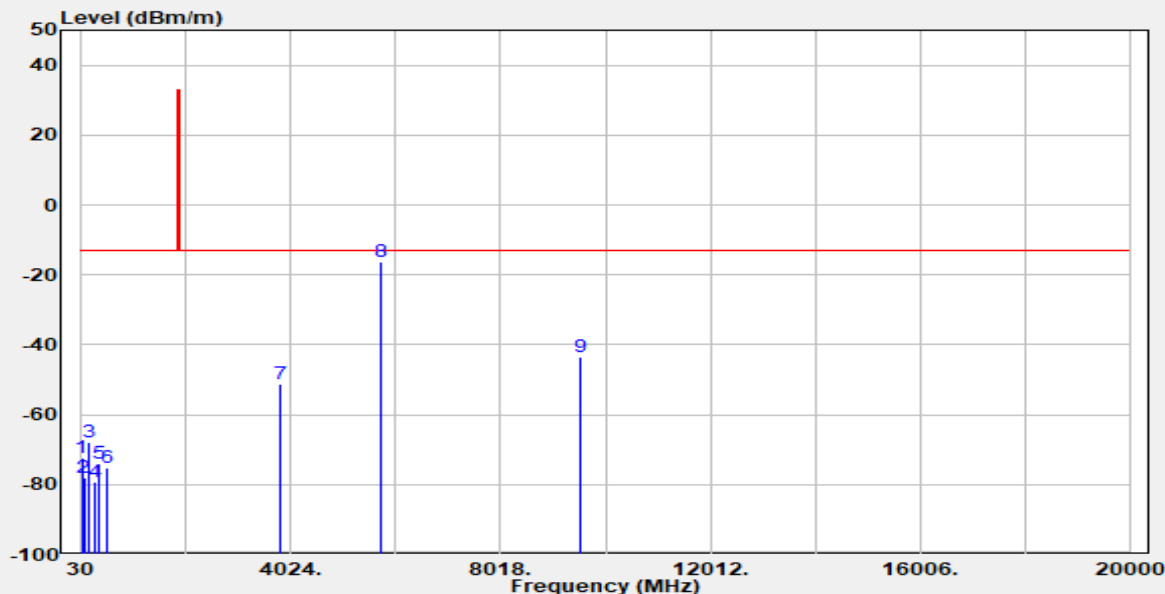


Report Number :TERF2407002101ER
Operation Mode :GSM 1900
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1909.8 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



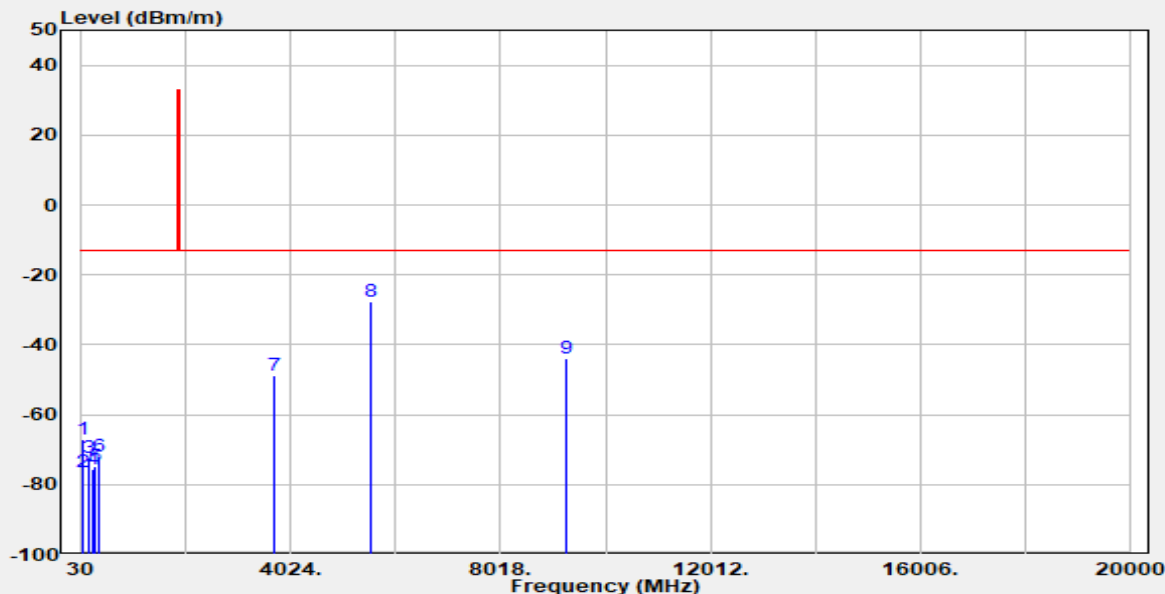
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
33.88	-72.30	-57.12	-14.12	-1.06	-13.00	-59.30
73.65	-77.98	-71.10	-5.32	-1.57	-13.00	-64.98
154.16	-67.99	-64.24	-1.48	-2.27	-13.00	-54.99
276.38	-79.45	-80.09	3.68	-3.04	-13.00	-66.45
369.50	-74.02	-74.66	4.15	-3.51	-13.00	-61.02
528.58	-75.10	-74.87	3.97	-4.19	-13.00	-62.10
3819.60	-51.21	-52.14	12.46	-11.53	-13.00	-38.21
5729.40	-16.28	-15.08	13.10	-14.29	-13.00	-3.28
9549.00	-43.47	-36.57	11.70	-18.60	-13.00	-30.47

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Report Number :TERF2407002101ER
 Operation Mode :WCDMA B2
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :1852.4 MHz

Test Site :SAC 3
 Test Date :2024-10-30
 Temp./Humi. :25.8°C/50%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.67	-67.17	-52.96	-13.03	-1.17	-13.00	-54.17
71.71	-76.63	-68.84	-6.23	-1.55	-13.00	-63.63
154.16	-72.19	-68.44	-1.48	-2.27	-13.00	-59.19
230.79	-75.79	-77.61	4.60	-2.77	-13.00	-62.79
265.71	-74.99	-76.18	4.18	-2.99	-13.00	-61.99
376.29	-72.10	-72.60	4.04	-3.54	-13.00	-59.10
3704.80	-48.85	-49.99	12.50	-11.36	-13.00	-35.85
5557.20	-27.74	-26.70	13.03	-14.07	-13.00	-14.74
9262.00	-43.71	-36.59	11.18	-18.30	-13.00	-30.71

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

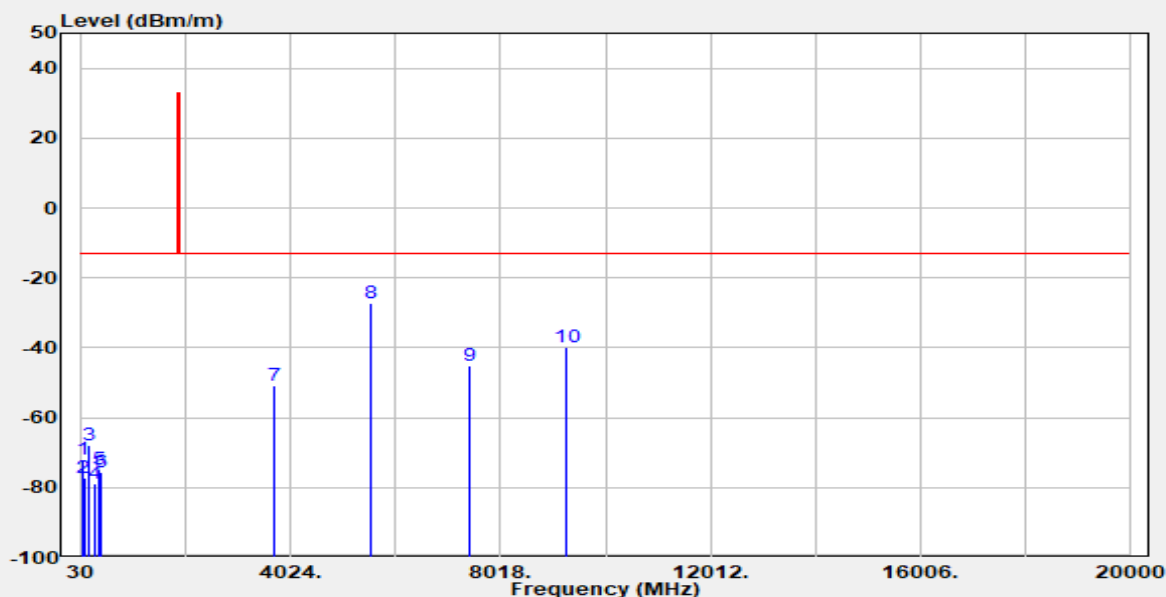
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2407002101ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1852.4 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



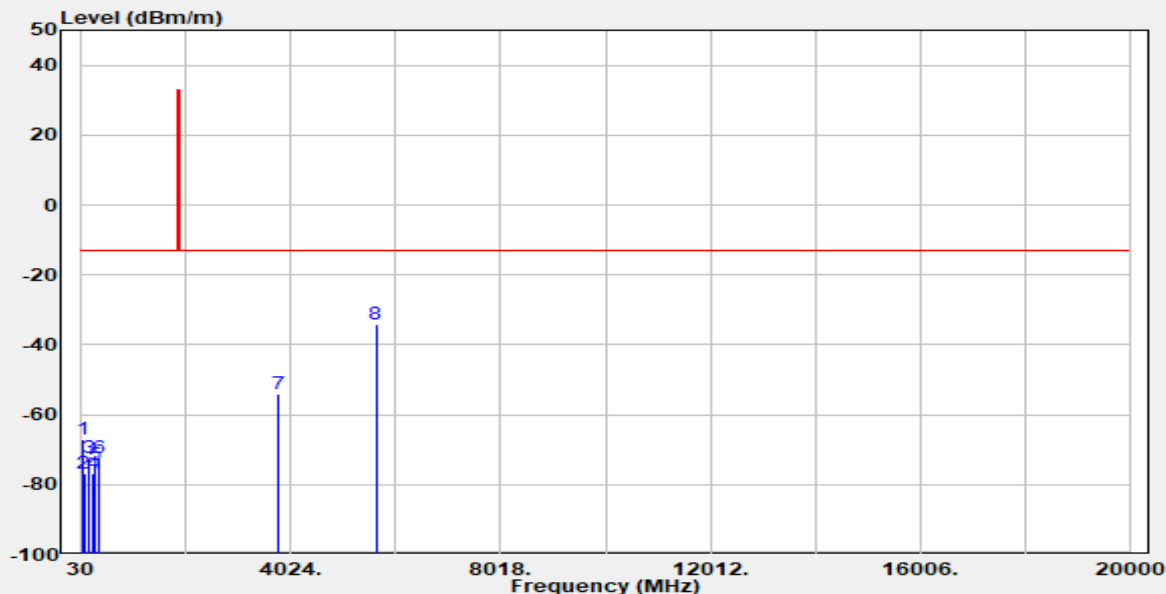
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.67	-71.92	-57.72	-13.03	-1.17	-13.00	-58.92
73.65	-77.42	-70.53	-5.32	-1.57	-13.00	-64.42
153.19	-67.75	-64.05	-1.44	-2.26	-13.00	-54.75
281.23	-78.98	-79.63	3.71	-3.07	-13.00	-65.98
373.38	-74.66	-75.21	4.09	-3.53	-13.00	-61.66
411.21	-75.47	-75.84	4.06	-3.70	-13.00	-62.47
3704.80	-50.68	-51.83	12.50	-11.36	-13.00	-37.68
5557.20	-27.36	-26.32	13.03	-14.07	-13.00	-14.36
7409.60	-44.97	-39.52	10.90	-16.35	-13.00	-31.97
9262.00	-39.72	-32.60	11.18	-18.30	-13.00	-26.72

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Report Number :TERF2407002101ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.67	-67.27	-53.07	-13.03	-1.17	-13.00	-54.27
72.68	-76.83	-69.45	-5.82	-1.56	-13.00	-63.83
157.07	-72.21	-68.73	-1.20	-2.29	-13.00	-59.21
228.85	-76.97	-78.99	4.78	-2.76	-13.00	-63.97
280.26	-74.57	-75.23	3.72	-3.06	-13.00	-61.57
377.26	-72.42	-72.90	4.02	-3.55	-13.00	-59.42
3760.00	-53.86	-54.92	12.50	-11.44	-13.00	-40.86
5640.00	-34.35	-33.46	13.28	-14.17	-13.00	-21.35

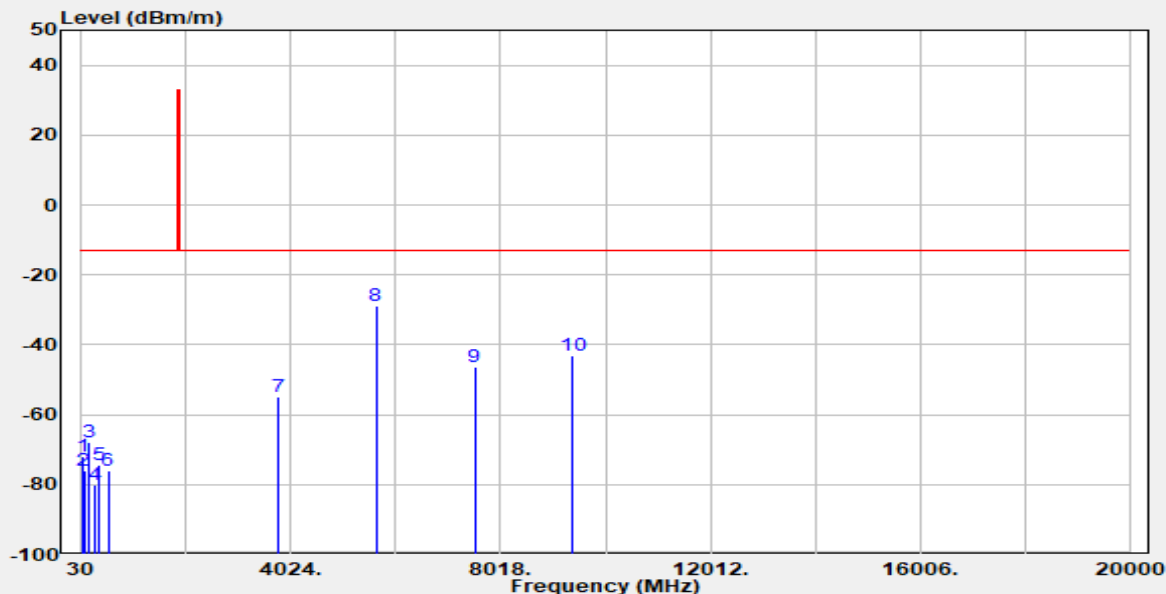
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.67	-72.01	-57.81	-13.03	-1.17	-13.00	-59.01
73.65	-76.21	-69.32	-5.32	-1.57	-13.00	-63.21
155.13	-68.08	-64.32	-1.49	-2.28	-13.00	-55.08
266.68	-80.03	-81.14	4.10	-2.99	-13.00	-67.03
375.32	-74.58	-75.10	4.05	-3.54	-13.00	-61.58
534.40	-75.91	-75.82	4.13	-4.22	-13.00	-62.91
3760.00	-54.69	-55.74	12.50	-11.44	-13.00	-41.69
5640.00	-28.83	-27.94	13.28	-14.17	-13.00	-15.83
7520.00	-46.38	-40.97	11.04	-16.45	-13.00	-33.38
9400.00	-42.97	-35.71	11.20	-18.46	-13.00	-29.97

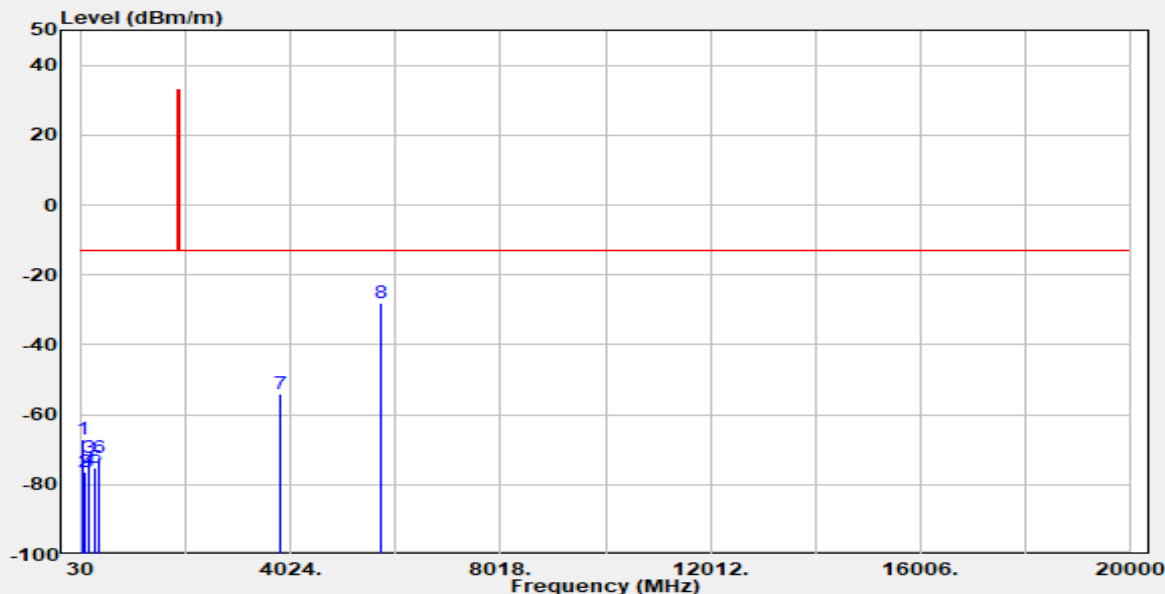
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1907.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.67	-67.21	-53.01	-13.03	-1.17	-13.00	-54.21
74.62	-76.42	-69.78	-5.07	-1.58	-13.00	-63.42
152.22	-72.30	-68.50	-1.55	-2.26	-13.00	-59.30
179.38	-76.20	-74.91	1.16	-2.45	-13.00	-63.20
276.38	-75.21	-75.85	3.68	-3.04	-13.00	-62.21
373.38	-72.22	-72.78	4.09	-3.53	-13.00	-59.22
3815.20	-54.00	-54.95	12.47	-11.52	-13.00	-41.00
5722.80	-27.98	-26.80	13.10	-14.28	-13.00	-14.98

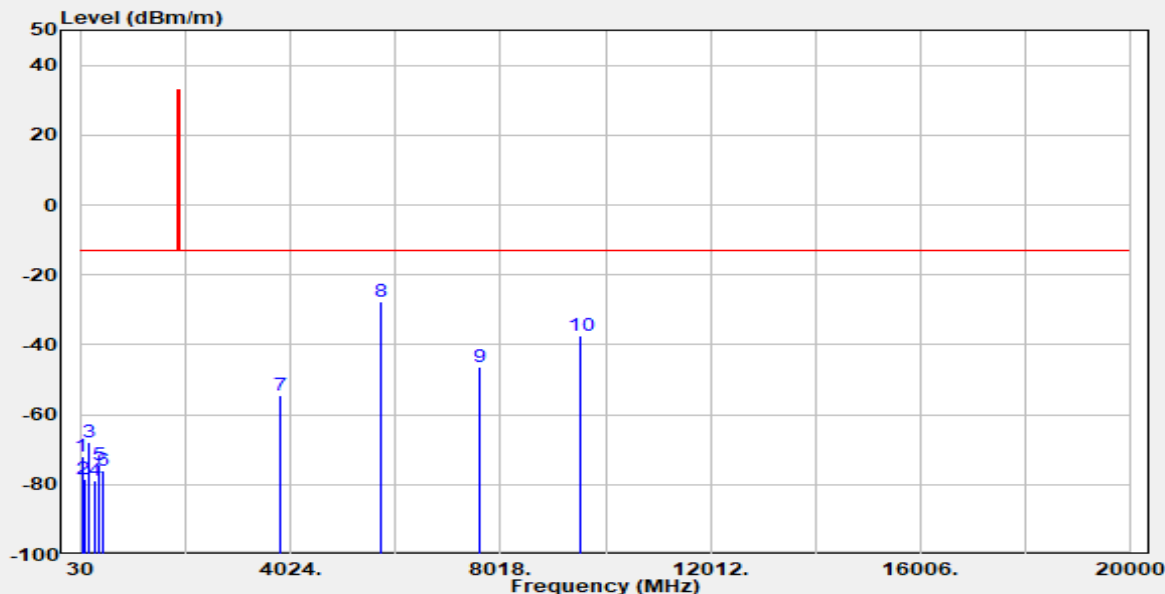
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1907.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
33.88	-71.96	-56.78	-14.12	-1.06	-13.00	-58.96
73.65	-78.49	-71.60	-5.32	-1.57	-13.00	-65.49
155.13	-67.87	-64.10	-1.49	-2.28	-13.00	-54.87
283.17	-78.85	-79.47	3.69	-3.08	-13.00	-65.85
374.35	-74.28	-74.82	4.07	-3.53	-13.00	-61.28
431.58	-76.13	-76.16	3.82	-3.79	-13.00	-63.13
3815.20	-54.30	-55.25	12.47	-11.52	-13.00	-41.30
5722.80	-27.55	-26.37	13.10	-14.28	-13.00	-14.55
7630.40	-46.20	-40.88	11.26	-16.58	-13.00	-33.20
9538.00	-37.36	-30.47	11.70	-18.59	-13.00	-24.36

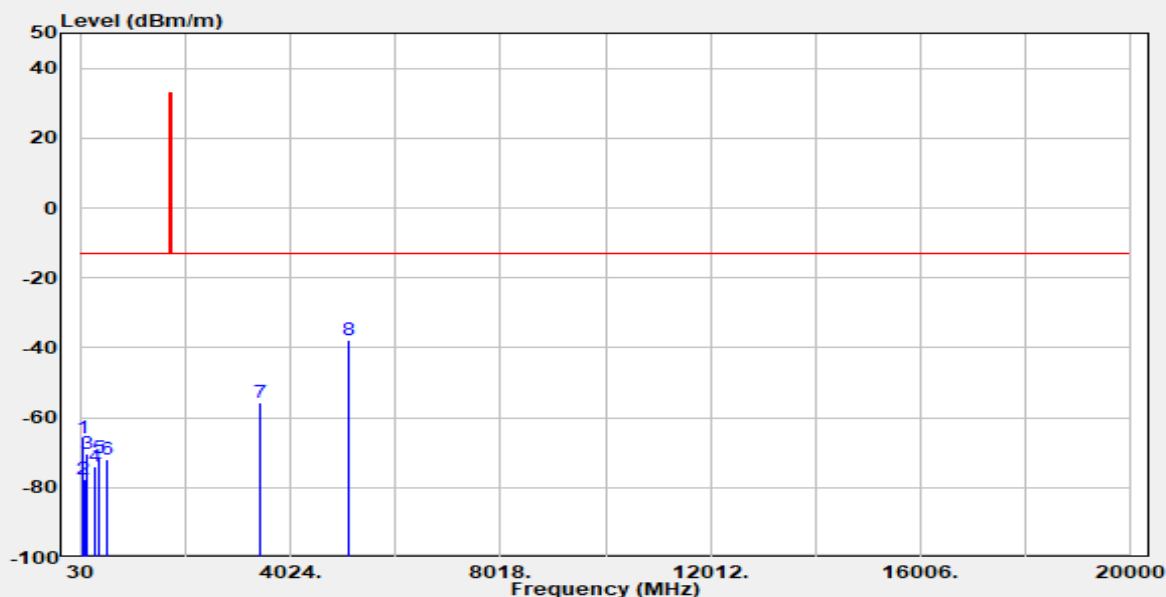
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1712.4 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Vertical
Engineer :Nick Lin



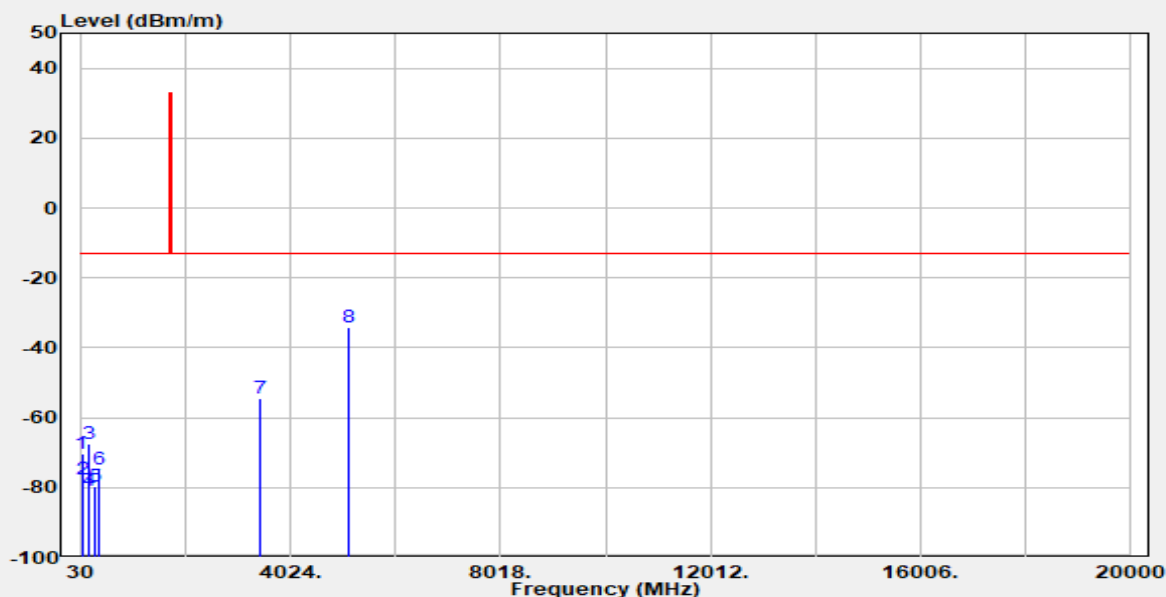
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.67	-65.94	-51.74	-13.03	-1.17	-13.00	-52.94
73.65	-77.61	-70.72	-5.32	-1.57	-13.00	-64.61
145.43	-70.41	-66.49	-1.72	-2.20	-13.00	-57.41
276.38	-73.97	-74.61	3.68	-3.04	-13.00	-60.97
373.38	-71.47	-72.03	4.09	-3.53	-13.00	-58.47
506.27	-72.07	-72.01	4.04	-4.11	-13.00	-59.07
3424.80	-55.62	-57.31	12.60	-10.91	-13.00	-42.62
5137.20	-37.97	-36.88	12.40	-13.49	-13.00	-24.97

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Report Number :TERF2407002101ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1712.4 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



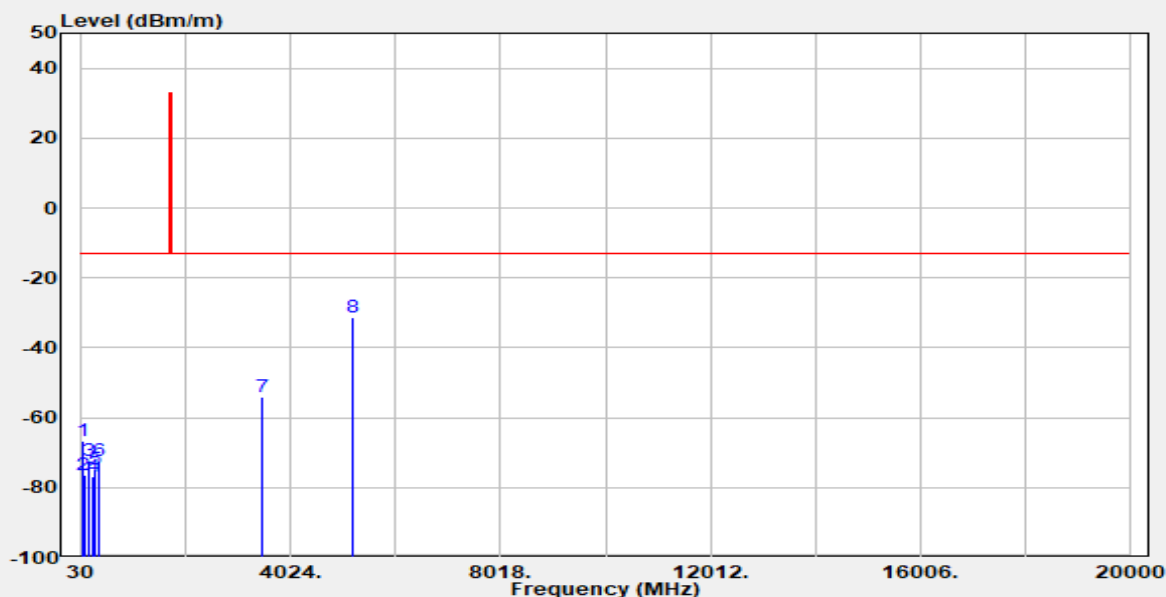
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
33.88	-70.44	-55.26	-14.12	-1.06	-13.00	-57.44
71.71	-77.76	-69.98	-6.23	-1.55	-13.00	-64.76
157.07	-67.60	-64.12	-1.20	-2.29	-13.00	-54.60
186.17	-80.83	-80.53	2.20	-2.49	-13.00	-67.83
270.56	-79.62	-80.40	3.79	-3.01	-13.00	-66.62
371.44	-74.62	-75.22	4.12	-3.52	-13.00	-61.62
3424.80	-54.46	-56.15	12.60	-10.91	-13.00	-41.46
5137.20	-34.31	-33.21	12.40	-13.49	-13.00	-21.31

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Report Number :TERF2407002101ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1732.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Vertical
Engineer :Nick Lin



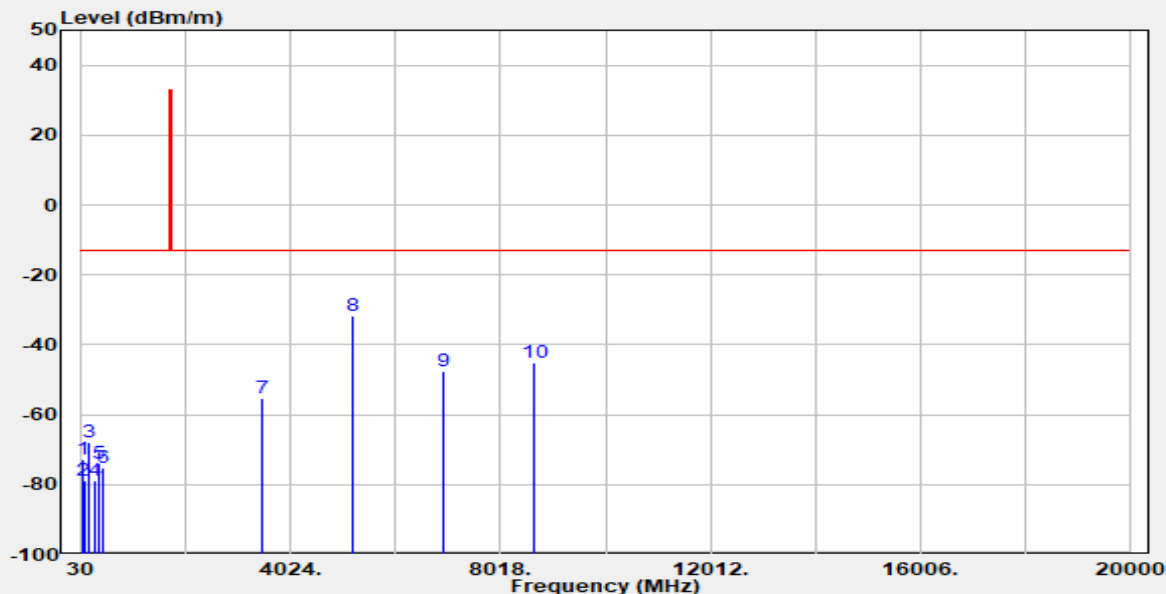
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
39.70	-66.68	-52.28	-13.25	-1.16	-13.00	-53.68
73.65	-76.37	-69.48	-5.32	-1.57	-13.00	-63.37
152.22	-72.52	-68.71	-1.55	-2.26	-13.00	-59.52
229.82	-76.65	-78.60	4.72	-2.77	-13.00	-63.65
271.53	-74.88	-75.63	3.77	-3.02	-13.00	-61.88
370.47	-72.23	-72.85	4.13	-3.51	-13.00	-59.23
3465.20	-54.02	-55.58	12.54	-10.97	-13.00	-41.02
5197.80	-31.18	-30.20	12.59	-13.58	-13.00	-18.18

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Report Number :TERF2407002101ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1732.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
39.70	-72.77	-58.37	-13.25	-1.16	-13.00	-59.77
72.68	-78.74	-71.37	-5.82	-1.56	-13.00	-65.74
157.07	-67.99	-64.51	-1.20	-2.29	-13.00	-54.99
280.26	-78.86	-79.51	3.72	-3.06	-13.00	-65.86
373.38	-74.02	-74.58	4.09	-3.53	-13.00	-61.02
441.28	-75.26	-75.05	3.62	-3.84	-13.00	-62.26
3465.20	-55.19	-56.76	12.54	-10.97	-13.00	-42.19
5197.80	-31.86	-30.87	12.59	-13.58	-13.00	-18.86
6930.40	-47.37	-43.37	11.78	-15.78	-13.00	-34.37
8663.00	-45.15	-38.94	11.47	-17.69	-13.00	-32.15

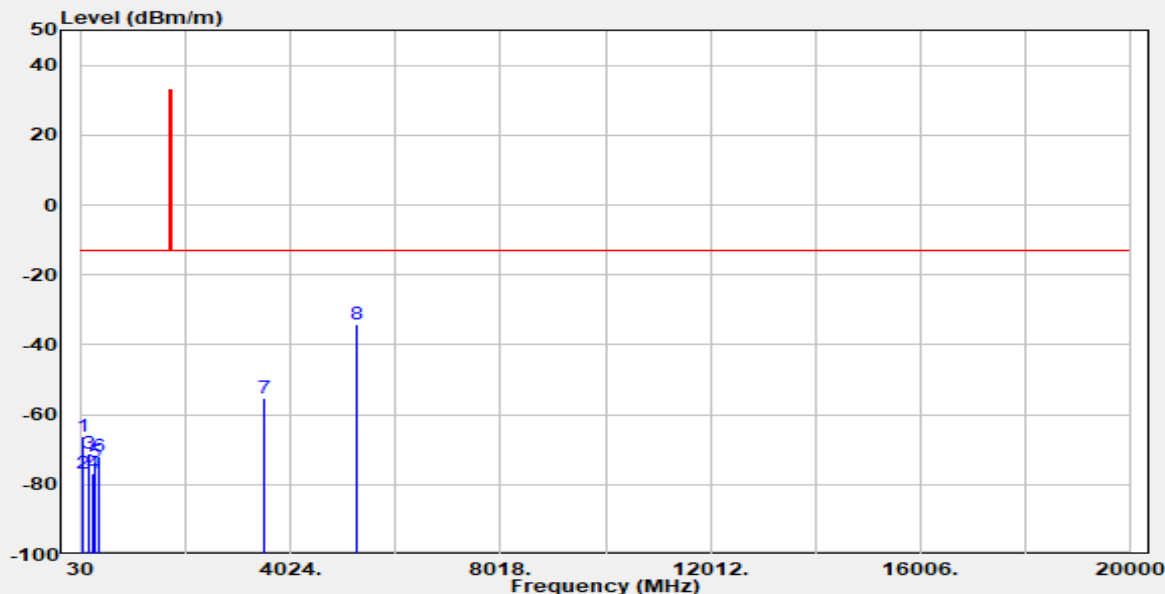
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1752.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.67	-66.19	-51.99	-13.03	-1.17	-13.00	-53.19
71.71	-76.77	-68.99	-6.23	-1.55	-13.00	-63.77
153.19	-70.98	-67.28	-1.44	-2.26	-13.00	-57.98
229.82	-76.87	-78.83	4.72	-2.77	-13.00	-63.87
280.26	-73.68	-74.34	3.72	-3.06	-13.00	-60.68
373.38	-71.88	-72.44	4.09	-3.53	-13.00	-58.88
3505.20	-55.15	-56.49	12.38	-11.04	-13.00	-42.15
5257.80	-34.00	-33.25	12.92	-13.66	-13.00	-21.00

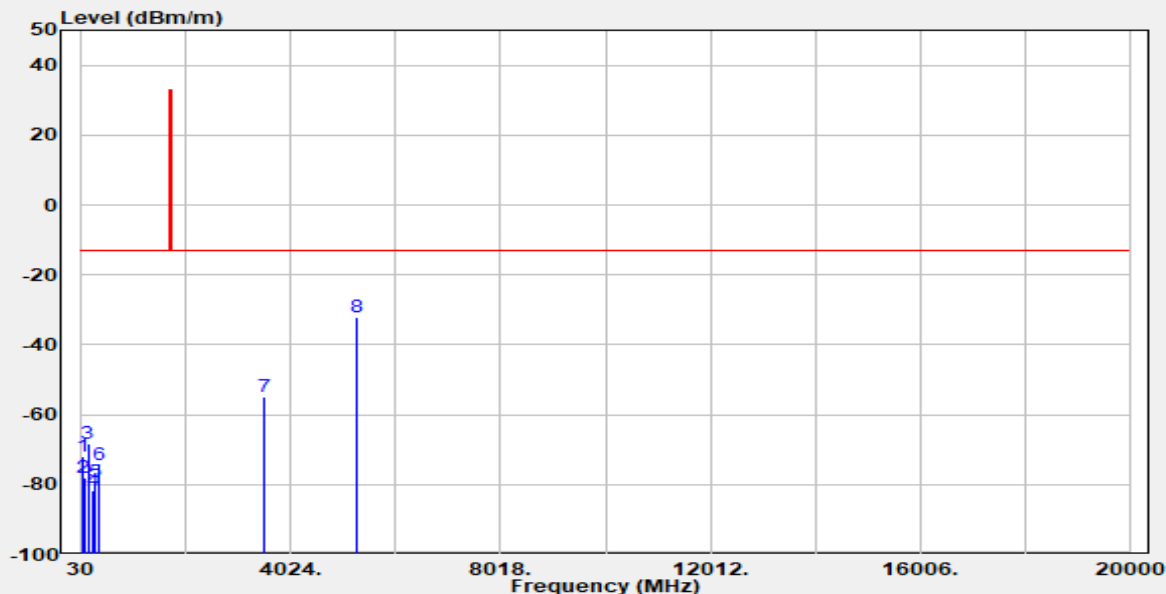
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1752.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
39.70	-71.85	-57.45	-13.25	-1.16	-13.00	-58.85
72.68	-78.03	-70.66	-5.82	-1.56	-13.00	-65.03
150.28	-68.39	-64.47	-1.68	-2.24	-13.00	-55.39
227.88	-81.86	-83.94	4.84	-2.76	-13.00	-68.86
271.53	-79.15	-79.90	3.77	-3.02	-13.00	-66.15
374.35	-74.39	-74.93	4.07	-3.53	-13.00	-61.39
3505.20	-54.97	-56.31	12.38	-11.04	-13.00	-41.97
5257.80	-32.16	-31.41	12.92	-13.66	-13.00	-19.16

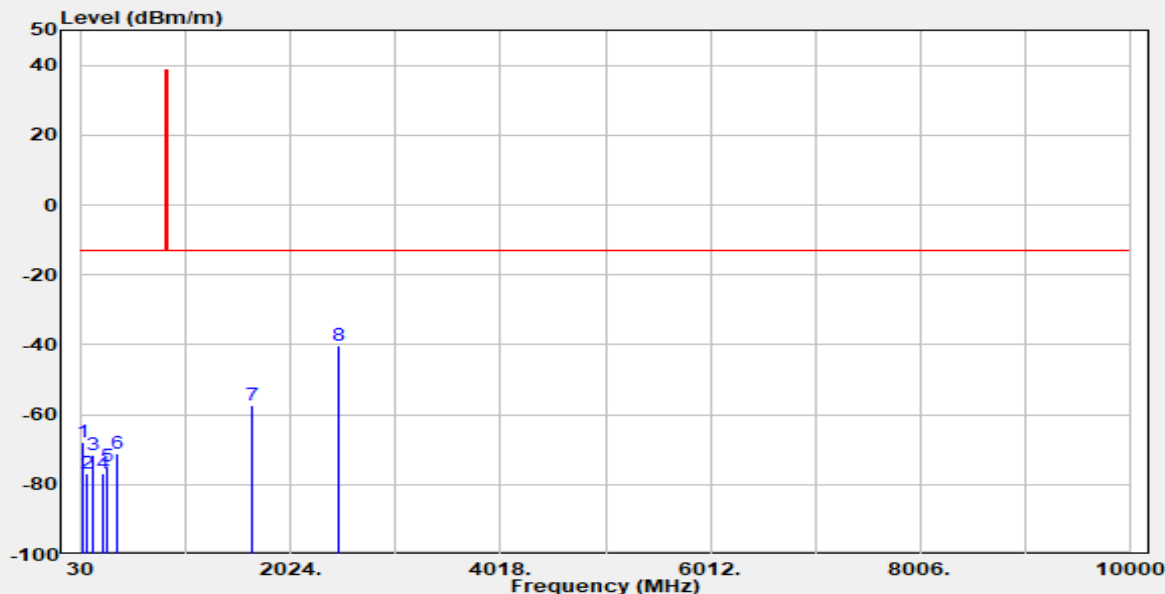
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :826.4 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
39.70	-68.01	-53.61	-13.25	-1.16	-13.00	-55.01
72.68	-77.00	-69.63	-5.82	-1.56	-13.00	-64.00
145.43	-71.42	-67.50	-1.72	-2.20	-13.00	-58.42
229.82	-76.98	-78.93	4.72	-2.77	-13.00	-63.98
274.44	-74.93	-75.58	3.69	-3.03	-13.00	-61.93
370.47	-71.23	-71.85	4.13	-3.51	-13.00	-58.23
1652.80	-57.18	-59.24	9.53	-7.47	-13.00	-44.18
2479.20	-40.16	-41.44	10.51	-9.23	-13.00	-27.16

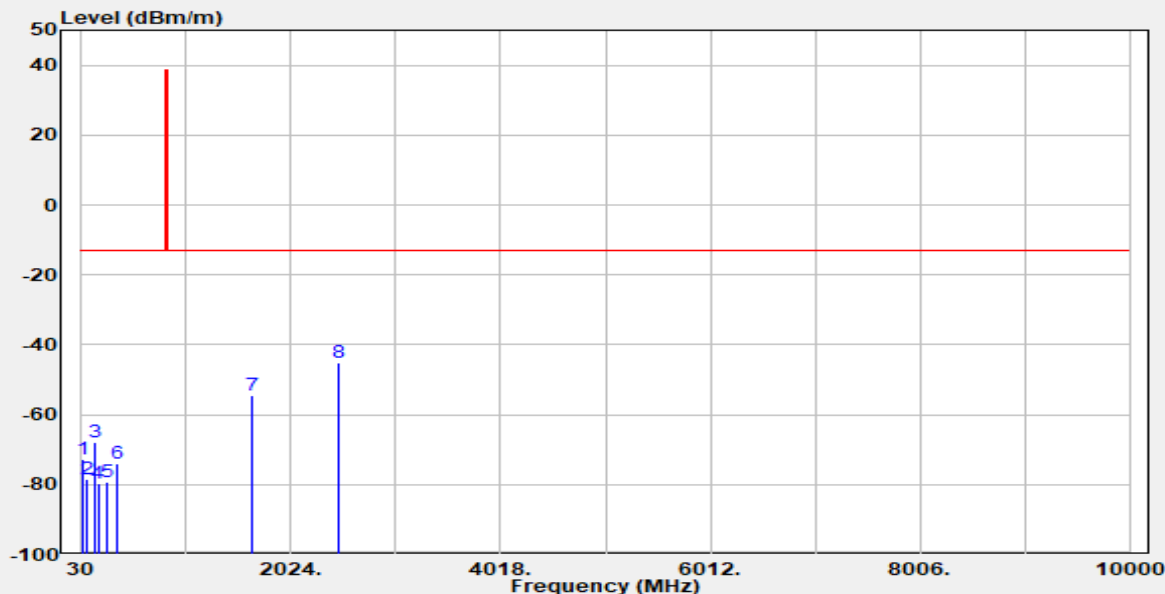
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :826.4 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.67	-72.67	-58.47	-13.03	-1.17	-13.00	-59.67
73.65	-78.44	-71.55	-5.32	-1.57	-13.00	-65.44
155.13	-68.08	-64.31	-1.49	-2.28	-13.00	-55.08
185.20	-79.58	-79.15	2.05	-2.49	-13.00	-66.58
270.56	-79.42	-80.20	3.79	-3.01	-13.00	-66.42
370.47	-74.12	-74.74	4.13	-3.51	-13.00	-61.12
1652.80	-54.27	-56.33	9.53	-7.47	-13.00	-41.27
2479.20	-45.15	-46.43	10.51	-9.23	-13.00	-32.15

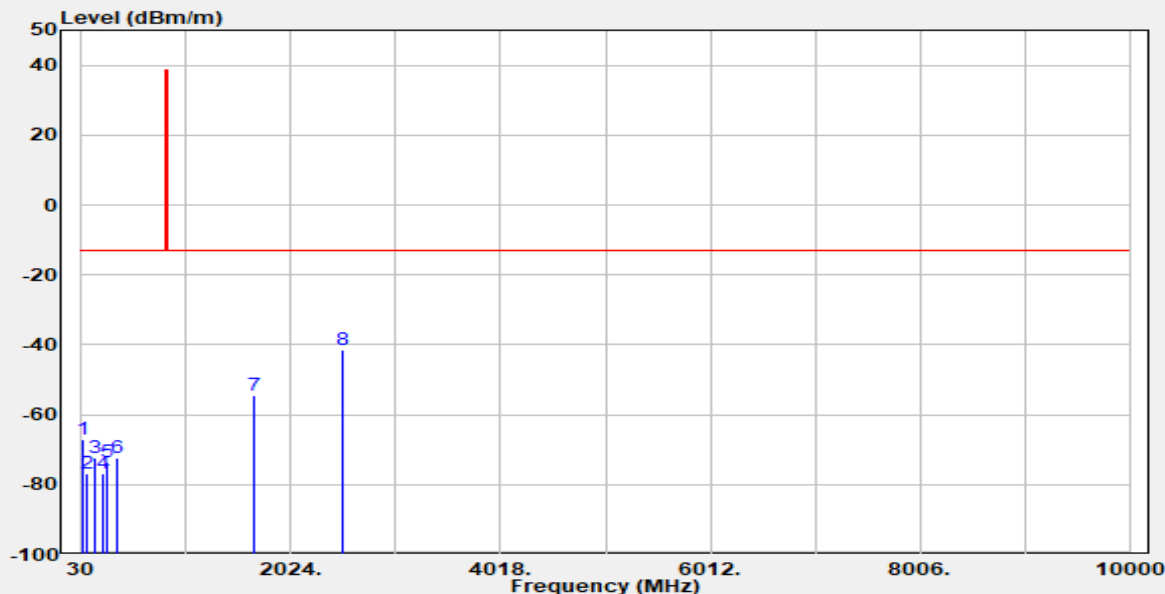
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :836.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
39.70	-67.26	-52.86	-13.25	-1.16	-13.00	-54.26
72.68	-76.89	-69.51	-5.82	-1.56	-13.00	-63.89
149.31	-72.53	-68.69	-1.60	-2.23	-13.00	-59.53
232.73	-76.74	-78.28	4.32	-2.79	-13.00	-63.74
270.56	-73.76	-74.54	3.79	-3.01	-13.00	-60.76
367.56	-72.28	-72.97	4.18	-3.50	-13.00	-59.28
1673.20	-54.45	-56.66	9.73	-7.52	-13.00	-41.45
2509.80	-41.48	-42.89	10.70	-9.29	-13.00	-28.48

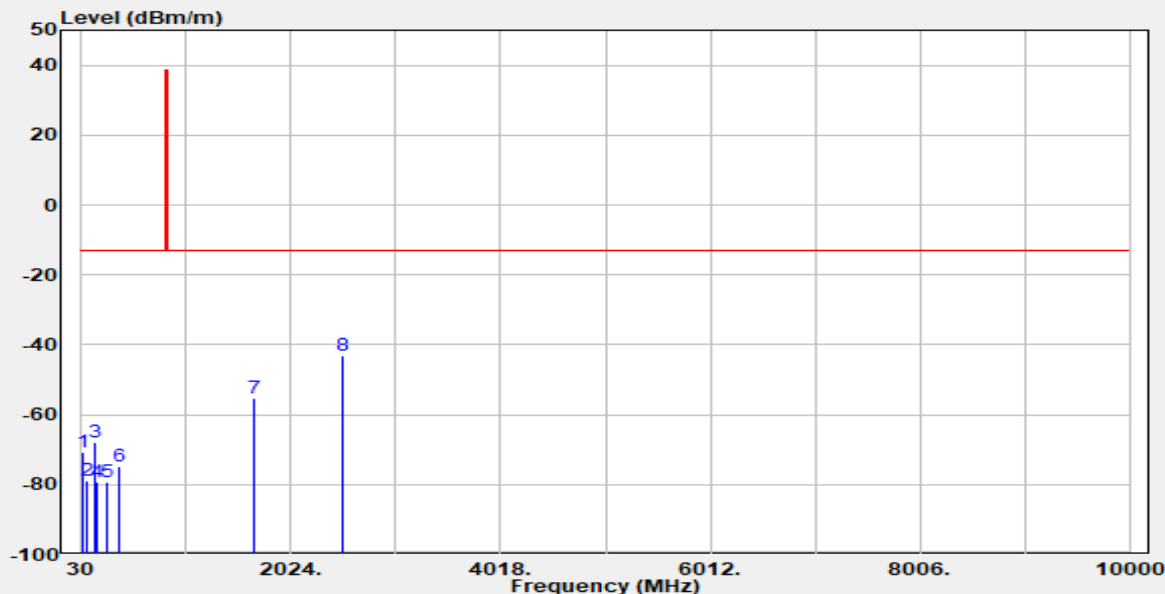
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :836.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.67	-70.61	-56.41	-13.03	-1.17	-13.00	-57.61
72.68	-78.79	-71.42	-5.82	-1.56	-13.00	-65.79
155.13	-68.08	-64.31	-1.49	-2.28	-13.00	-55.08
176.47	-79.16	-77.44	0.71	-2.43	-13.00	-66.16
277.35	-79.14	-79.79	3.69	-3.05	-13.00	-66.14
380.17	-74.61	-75.02	3.98	-3.56	-13.00	-61.61
1673.20	-55.30	-57.52	9.73	-7.52	-13.00	-42.30
2509.80	-42.92	-44.33	10.70	-9.29	-13.00	-29.92

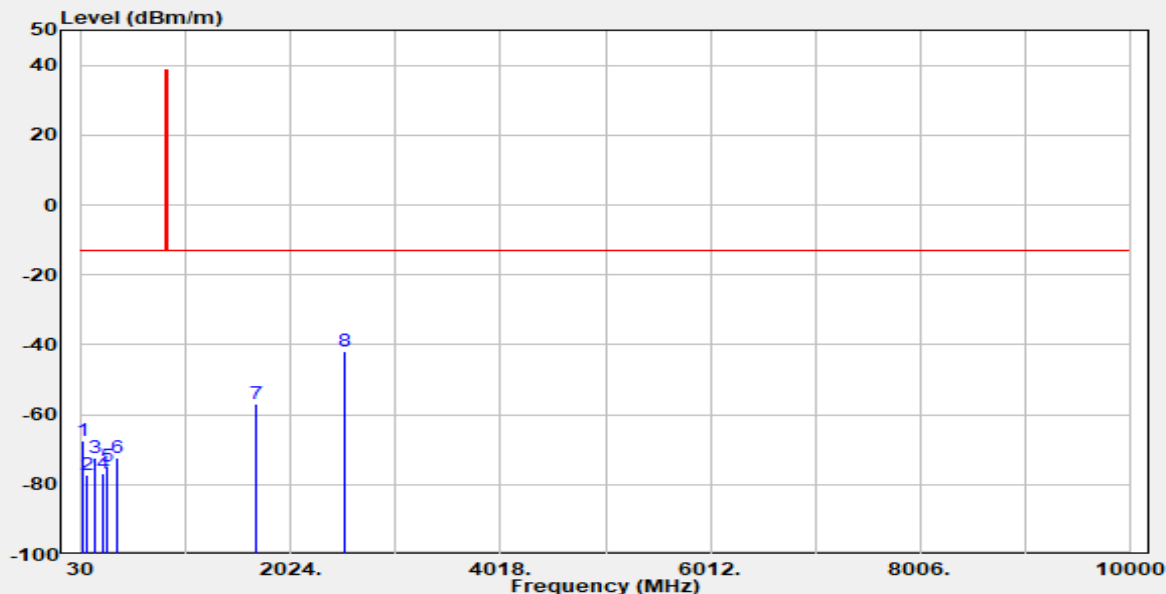
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :846.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-67.60	-53.20	-13.25	-1.16	-13.00	-54.60
72.68	-77.17	-69.80	-5.82	-1.56	-13.00	-64.17
153.19	-72.44	-68.74	-1.44	-2.26	-13.00	-59.44
230.79	-76.75	-78.57	4.60	-2.77	-13.00	-63.75
271.53	-74.92	-75.67	3.77	-3.02	-13.00	-61.92
374.35	-72.42	-72.96	4.07	-3.53	-13.00	-59.42
1693.20	-56.88	-59.25	9.93	-7.56	-13.00	-43.88
2539.80	-41.92	-43.17	10.60	-9.35	-13.00	-28.92

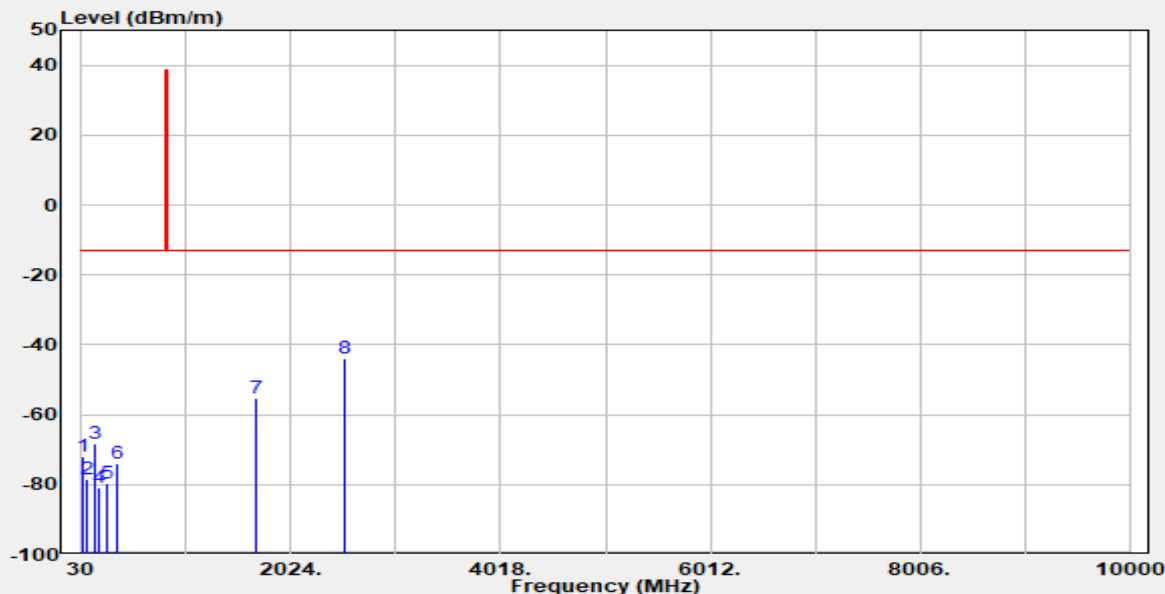
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Report Number :TERF2407002101ER
Operation Mode :WCDMA B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :846.6 MHz

Test Site :SAC 3
Test Date :2024-10-30
Temp./Humi. :25.8°C/50%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
33.88	-72.14	-56.95	-14.12	-1.06	-13.00	-59.14
71.71	-78.30	-70.51	-6.23	-1.55	-13.00	-65.30
156.10	-68.22	-64.59	-1.34	-2.28	-13.00	-55.22
187.14	-80.80	-80.64	2.34	-2.50	-13.00	-67.80
276.38	-79.65	-80.29	3.68	-3.04	-13.00	-66.65
369.50	-73.96	-74.60	4.15	-3.51	-13.00	-60.96
1693.20	-55.46	-57.83	9.93	-7.56	-13.00	-42.46
2539.80	-43.87	-45.12	10.60	-9.35	-13.00	-30.87

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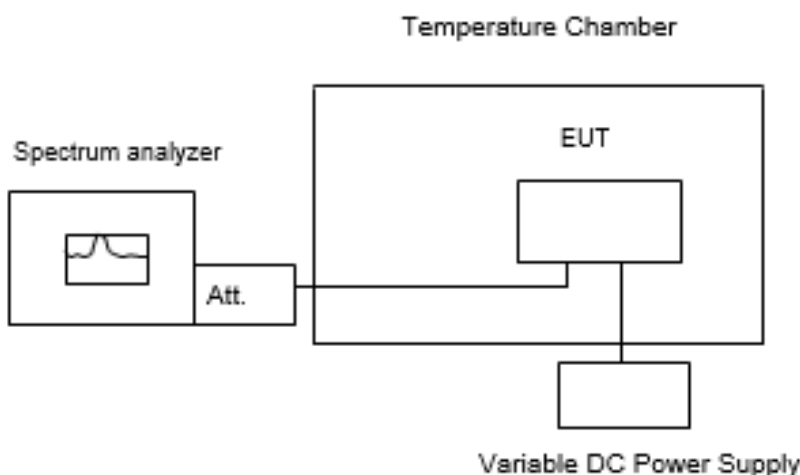
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12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicable

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 20°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 20°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 7.8V dc.

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GPRS 850 Mid Channel		836.6000	MHz	
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
8.97	20	836.6000134	0.0160	+/- 2.5 ppm
7.8	20	836.5999924	-0.0091	
6.63	20	836.5999905	-0.0114	
5.1 (End point)	20	836.5999959	-0.0049	
FREQUENCY ERROR vs. Temp.				
7.8	50	836.5999875	-0.0149	+/- 2.5 ppm
7.8	40	836.6000033	0.0039	
7.8	30	836.6000142	0.0170	
7.8	20	836.5999875	-0.0149	
7.8	10	836.6000052	0.0062	
7.8	0	836.5999901	-0.0118	
7.8	-10	836.6000023	0.0027	
7.8	-20	836.5999866	-0.0160	
7.8	-30	836.5999961	-0.0047	

GPRS 1900 Mid Channel			1880.0000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
8.97	20	1879.999989	-0.0059	+/- 2.5 ppm
7.8	20	1880.000006	0.0034	
6.63	20	1880.000013	0.0069	
5.1 (End point)	20	1879.999997	-0.0018	
FREQUENCY ERROR vs. Temp.				
7.8	50	1880.000011	0.0059	+/- 2.5 ppm
7.8	40	1879.999995	-0.0028	
7.8	30	1880.000013	0.0069	
7.8	20	1880.000003	0.0018	
7.8	10	1880.000007	0.0039	
7.8	0	1880.000001	0.0055	
7.8	-10	1879.999992	-0.0045	
7.8	-20	1880.000004	0.0019	
7.8	-30	1879.999994	-0.0030	

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WCDMA II Mid Channel				1880.0000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
FREQUENCY ERROR vs. VOLTAGE					
8.97	20	1880.000011	0.0057	+/- 2.5 ppm	
7.8	20	1879.999987	-0.0069		
6.63	20	1880.000005	0.0029		
5.1 (End point)	20	1880.000012	0.0064		
FREQUENCY ERROR vs. Temp.					
7.8	50	1880.00001	0.0055	+/- 2.5 ppm	
7.8	40	1879.999993	-0.0037		
7.8	30	1880.000013	0.0068		
7.8	20	1880.00001	0.0051		
7.8	10	1879.999995	-0.0028		
7.8	0	1879.999998	-0.0011		
7.8	-10	1880.000011	0.0057		
7.8	-20	1879.999986	-0.0074		
7.8	-30	1880.000006	0.0032		

WCDMA IV Mid Channel			1732.6000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
8.97	20	1732.600005	0.0028	+/- 2.5 ppm
7.8	20	1732.600007	0.0039	
6.63	20	1732.599993	-0.0042	
5.1 (End point)	20	1732.599995	-0.0031	
FREQUENCY ERROR vs. Temp.				
7.8	50	1732.600015	0.0085	+/- 2.5 ppm
7.8	40	1732.599992	-0.0048	
7.8	30	1732.600014	0.0080	
7.8	20	1732.600001	0.0008	
7.8	10	1732.599996	-0.0021	
7.8	0	1732.599991	-0.0054	
7.8	-10	1732.600011	0.0061	
7.8	-20	1732.599988	-0.0070	
7.8	-30	1732.60001	0.0055	

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WCDMA V Mid Channel			836.6000	MHz
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
FREQUENCY ERROR vs. VOLTAGE				
8.97	20	836.6000065	0.0078	+/- 2.5 ppm
7.8	20	836.5999891	-0.0130	
6.63	20	836.5999946	-0.0065	
5.1 (End point)	20	836.6000112	0.0134	
FREQUENCY ERROR vs. Temp.				
7.8	50	836.6000144	0.0172	+/- 2.5 ppm
7.8	40	836.6000095	0.0114	
7.8	30	836.6000126	0.0151	
7.8	20	836.5999943	-0.0068	
7.8	10	836.5999918	-0.0098	
7.8	0	836.6000125	0.0149	
7.8	-10	836.599994	-0.0072	
7.8	-20	836.5999862	-0.0165	
7.8	-30	836.6000103	0.0123	

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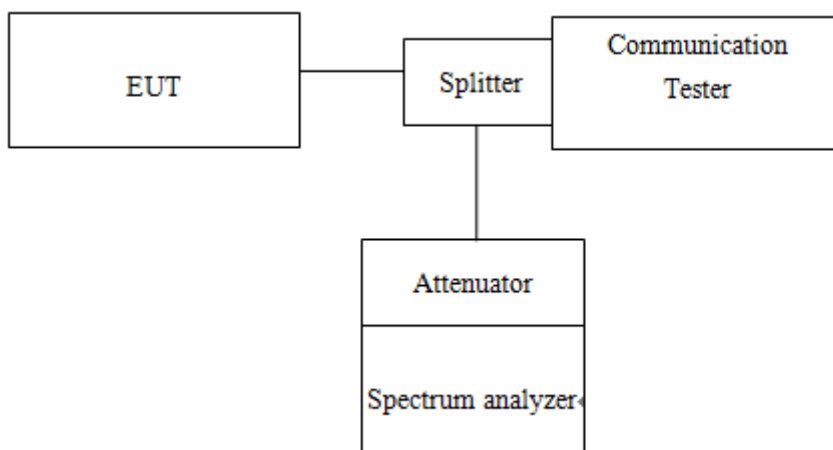
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13 PEAK TO AVERAGE RATIO

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	10.06	9.7	12.46
836.6	190	9.39	9.92	12.66
848.8	251	9.59	9.8	12.6
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	9.89	9.96	12.8
1880	661	9.46	10.05	12.4
1909.8	810	10.39	10.18	12.81

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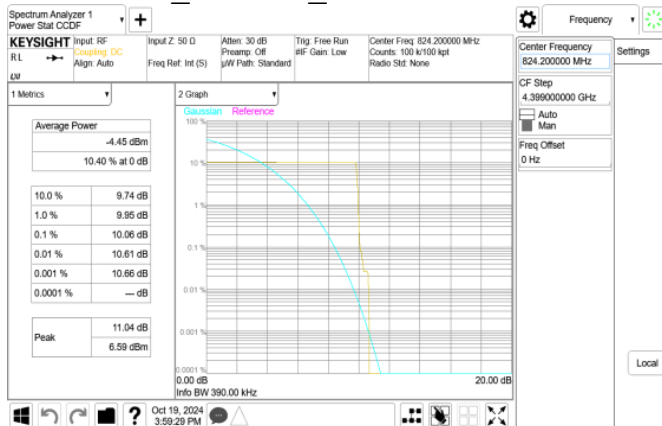
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.38	3.61	3.78
1880	9400	3.04	3.58	3.56
1907.6	9538	2.99	3.41	3.54
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.72	3.55	3.58
1732.6	1413	2.74	3.77	3.90
1752.6	1513	2.73	3.42	3.69
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.09	3.75	4.02
836.6	4183	2.83	3.92	3.63
846.6	4233	3.48	3.60	3.84

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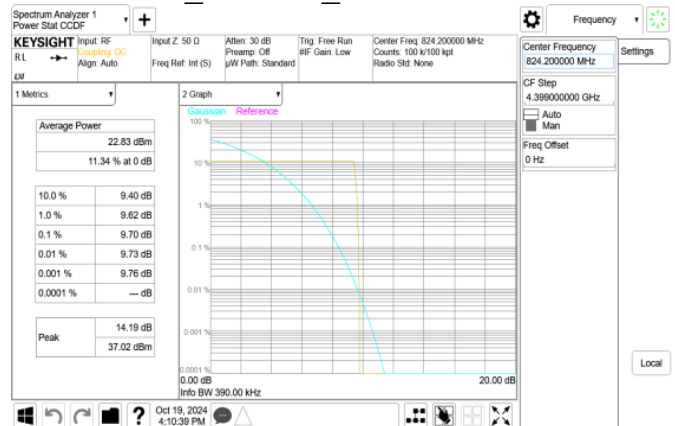
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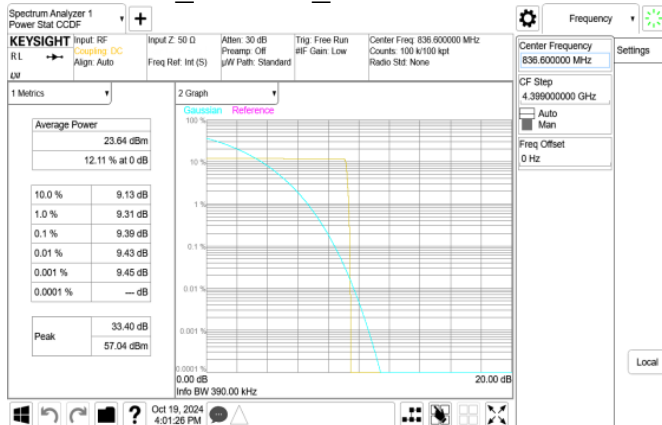
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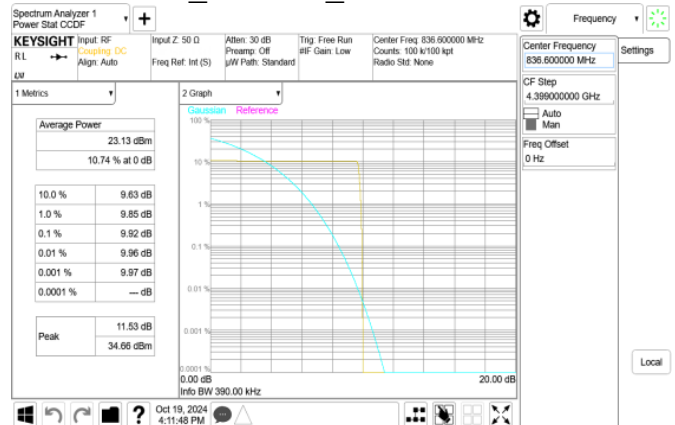
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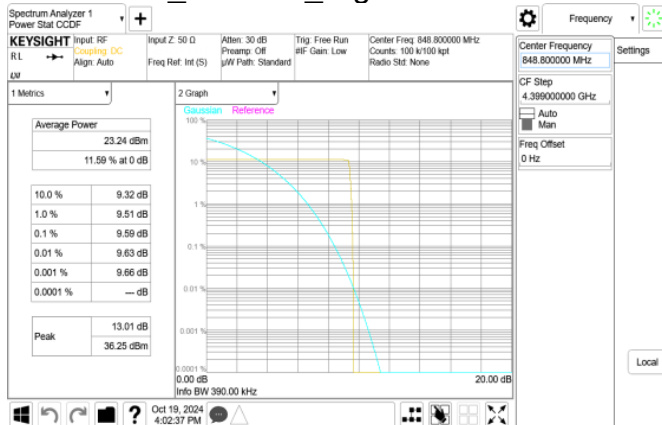
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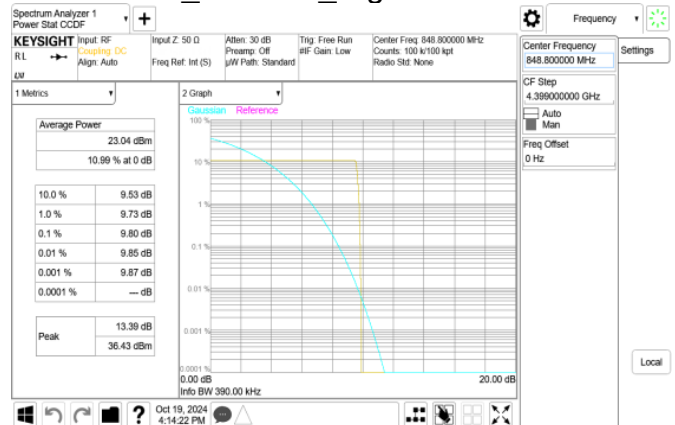
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GSM_850MHz_HighCH251-848.8



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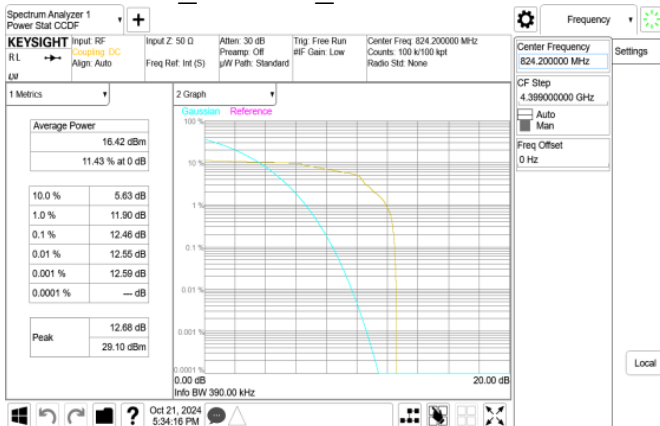


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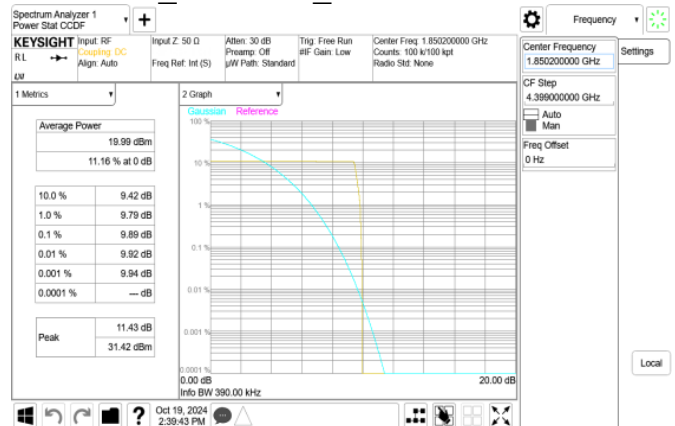
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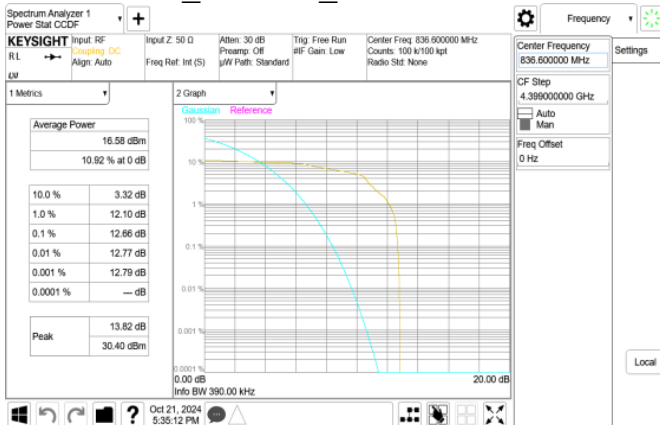
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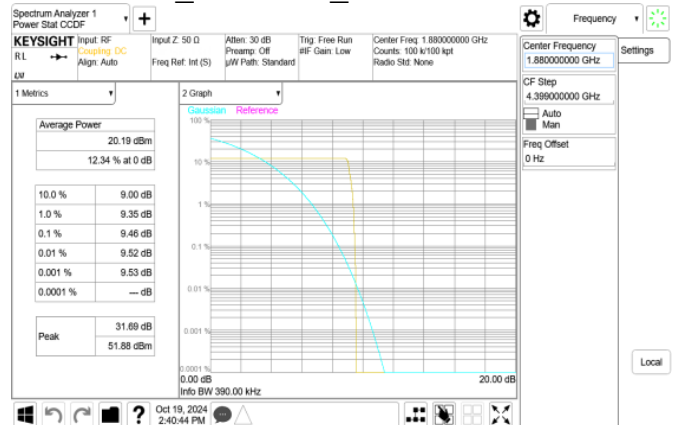
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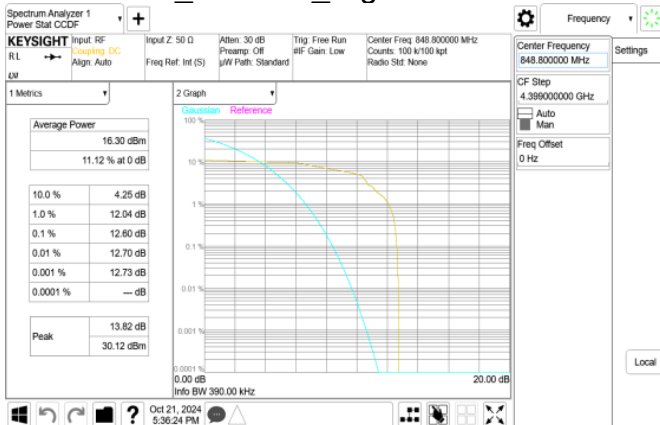
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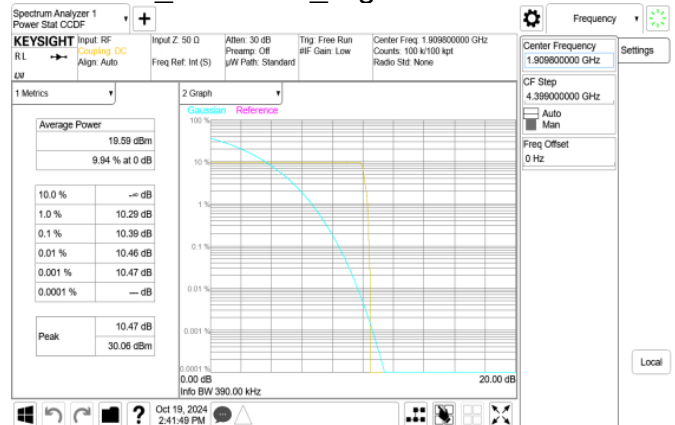
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EDGE_850MHz_HighCH251-848.8



GSM_1900MHz_HighCH810-1909.8

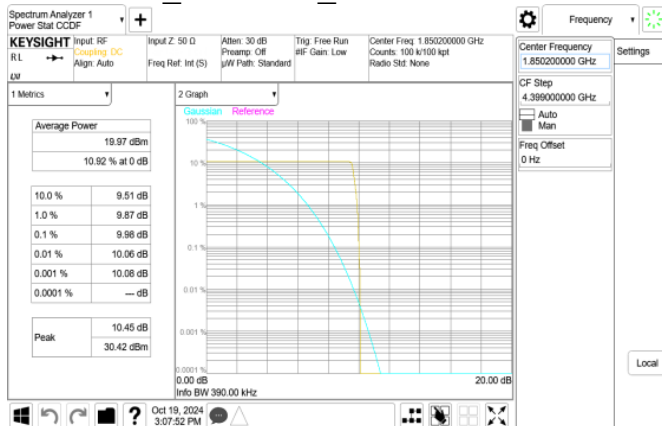


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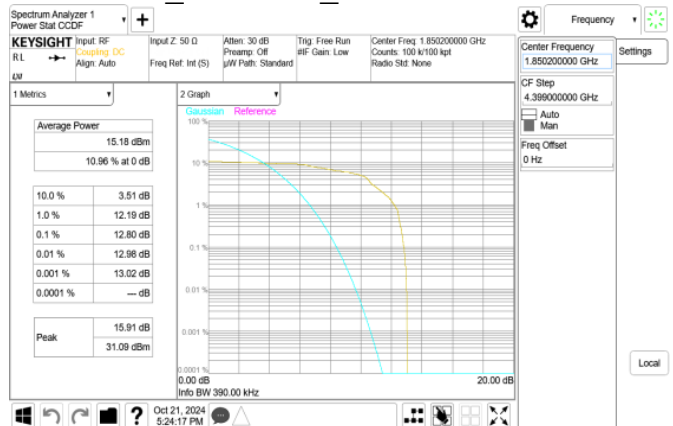
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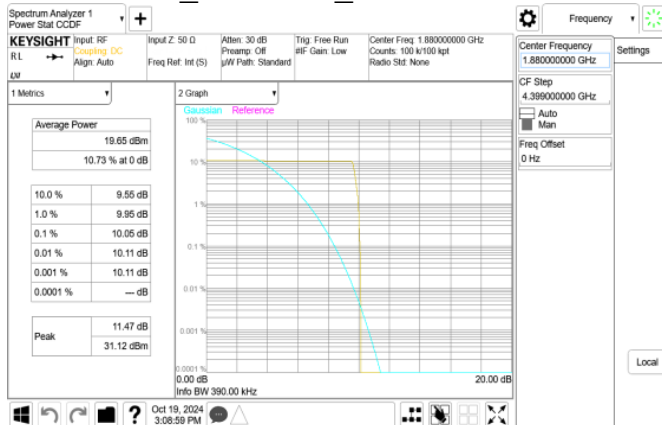
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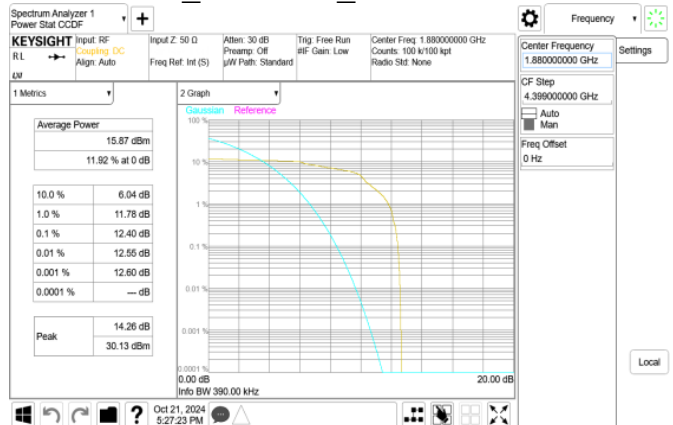
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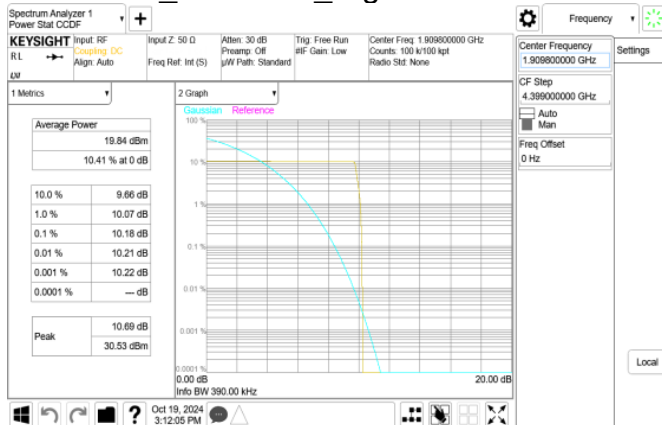
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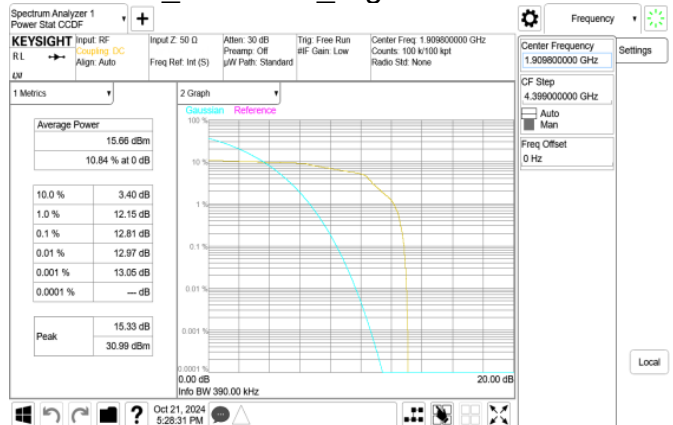
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GPRS_1900MHz_HighCH810-1909.8



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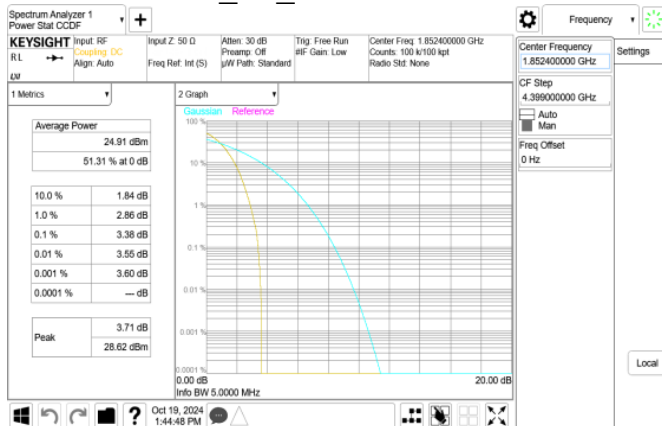


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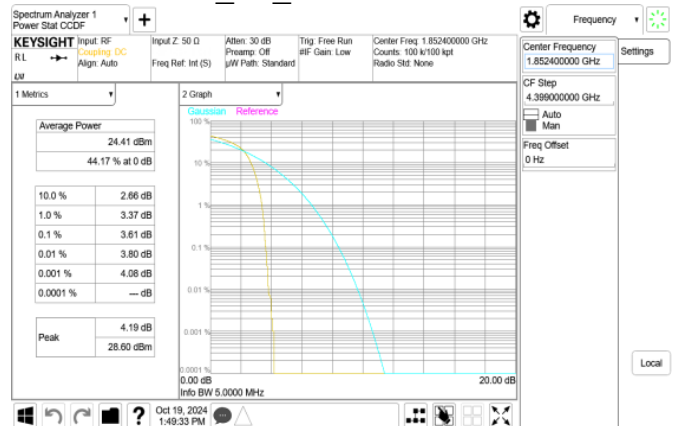
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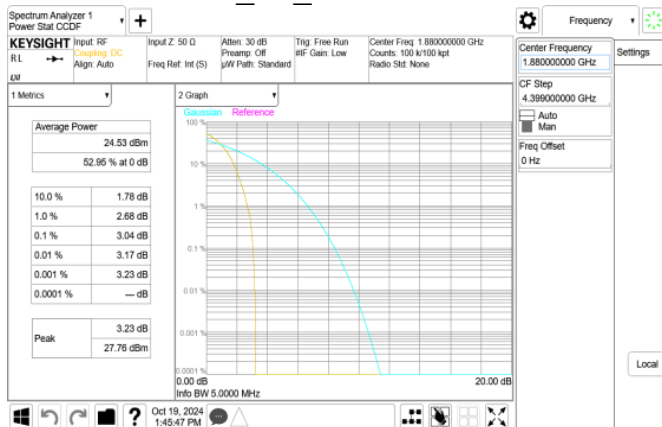
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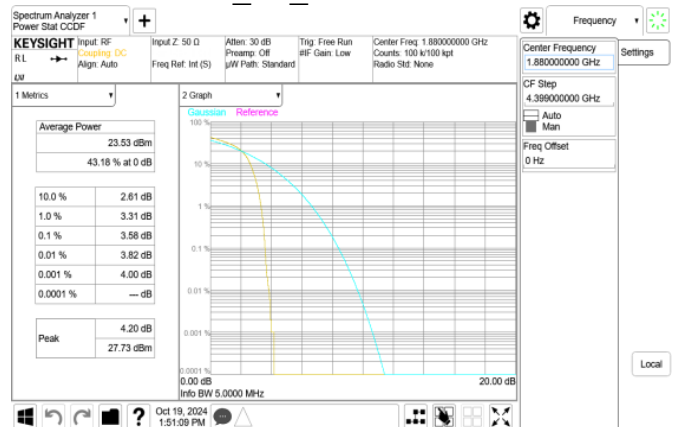
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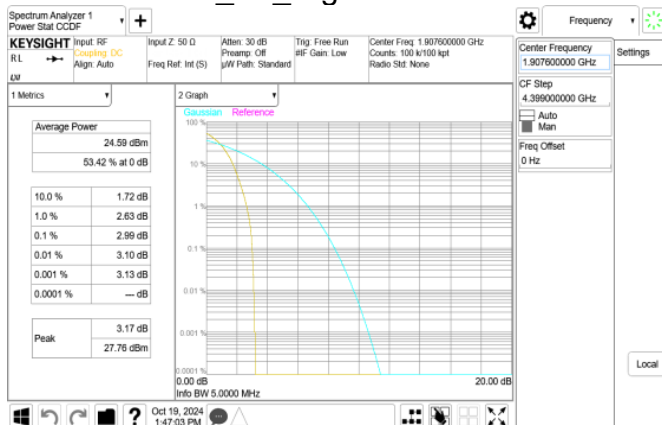
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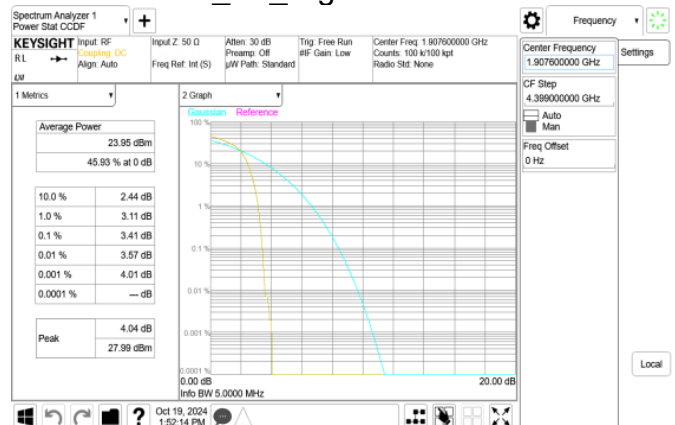
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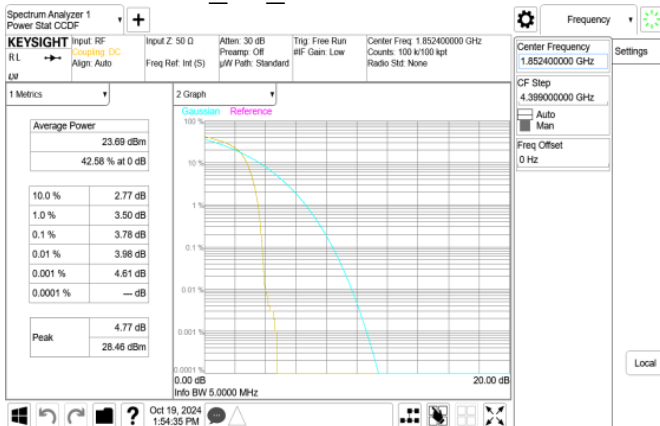


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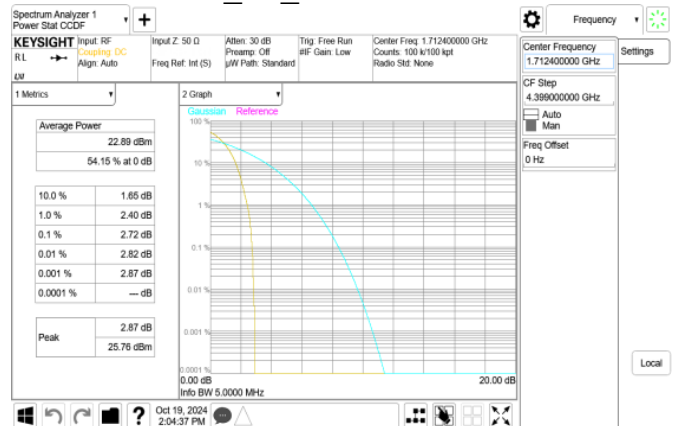
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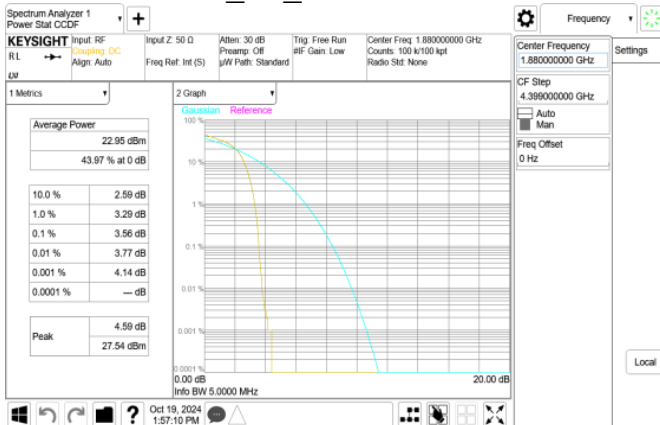
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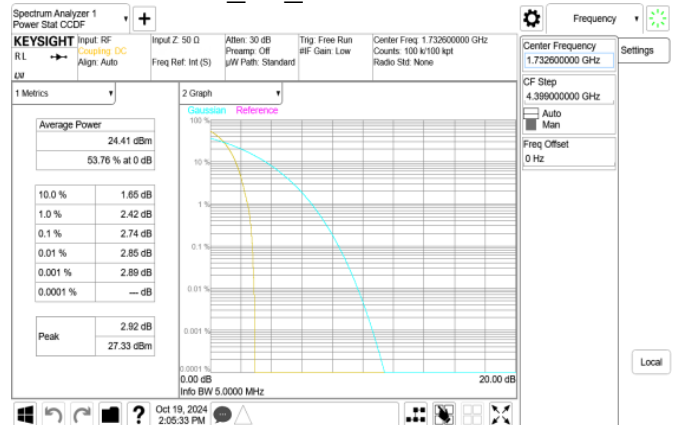
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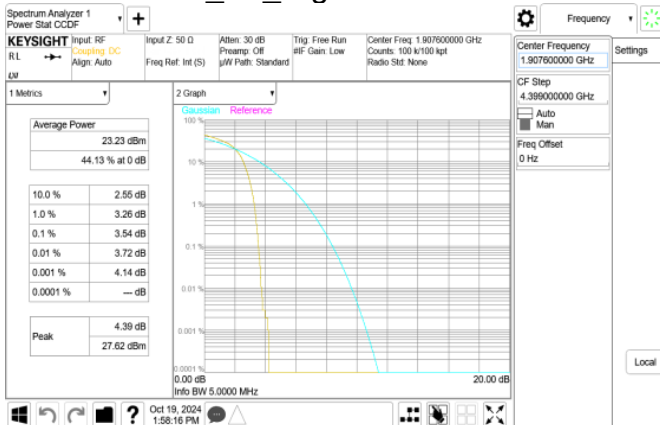
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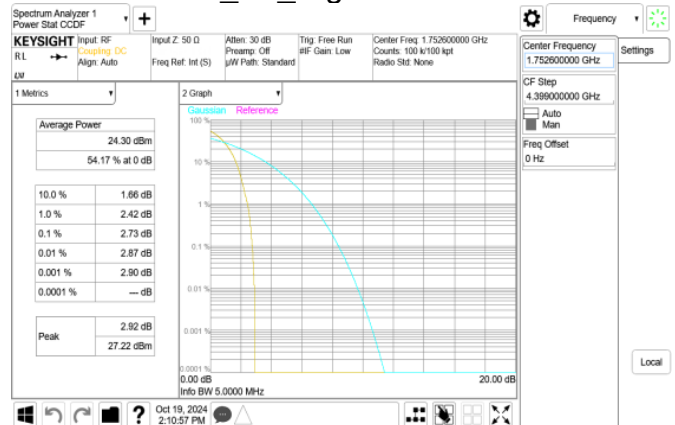
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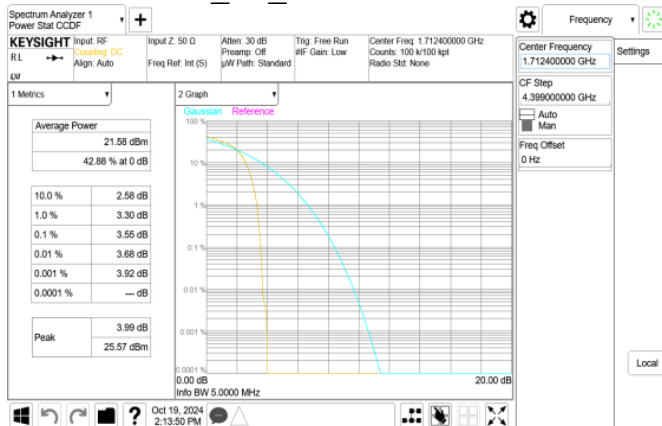


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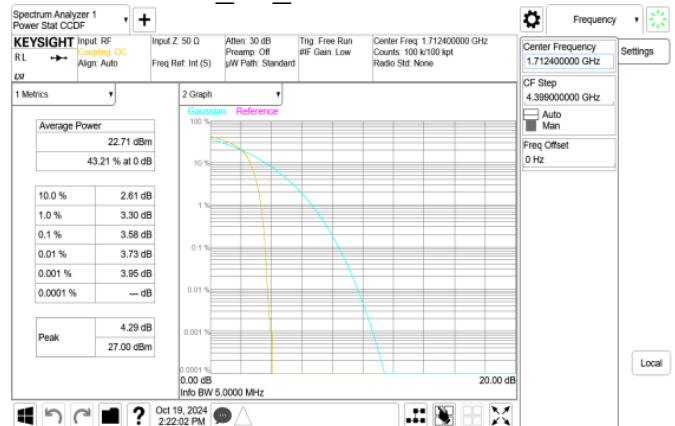
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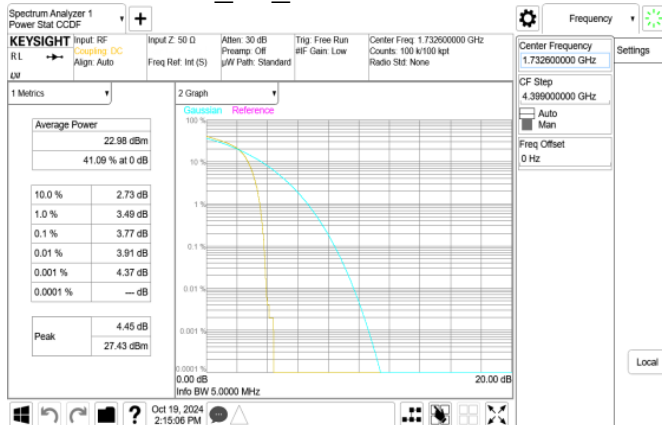
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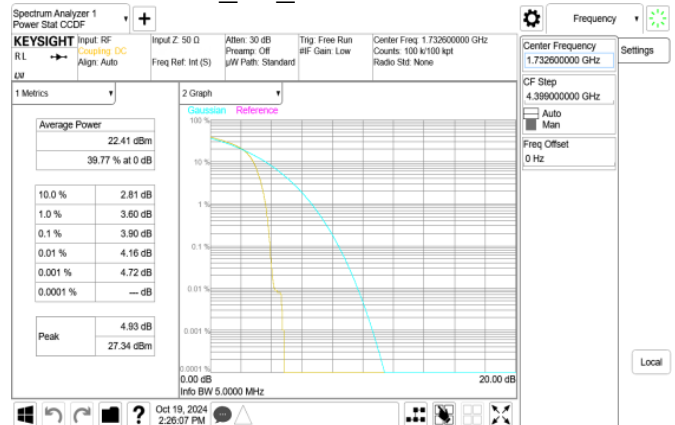
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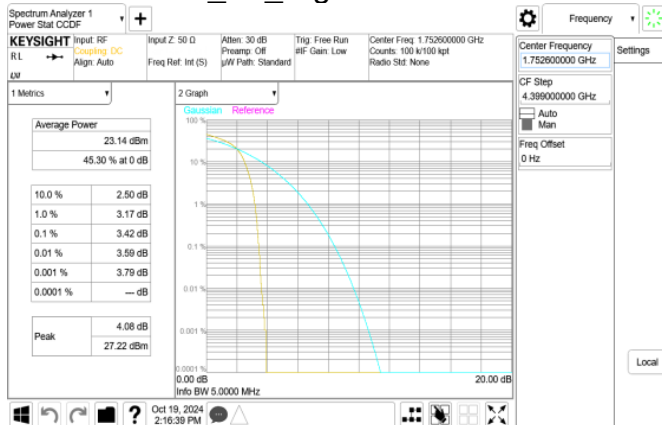
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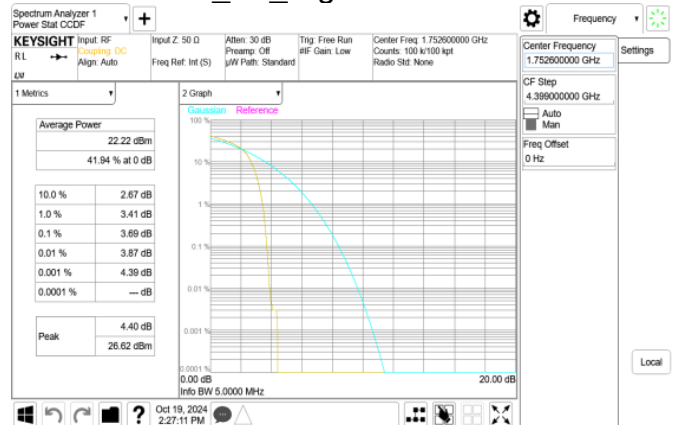
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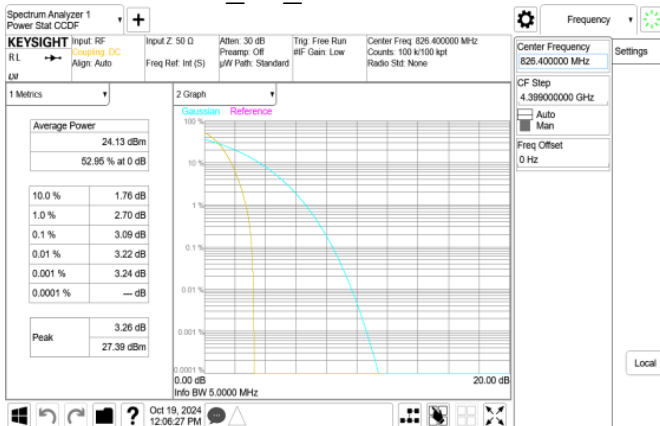


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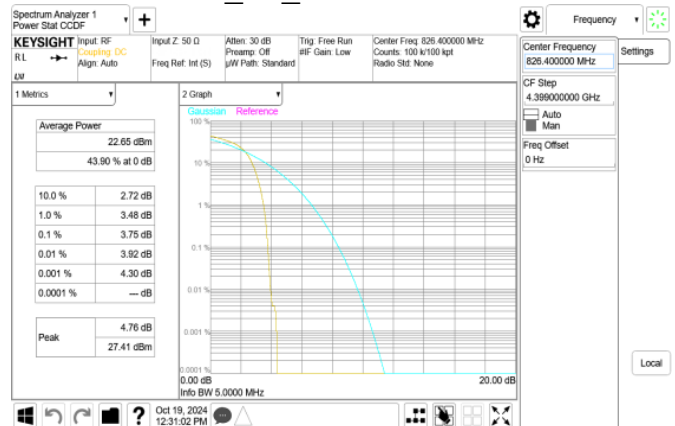
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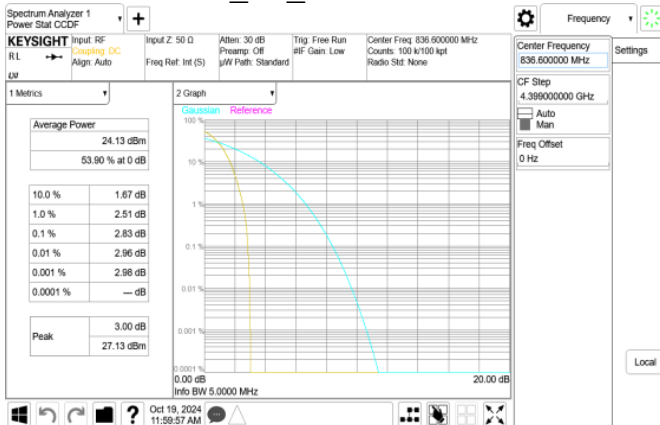
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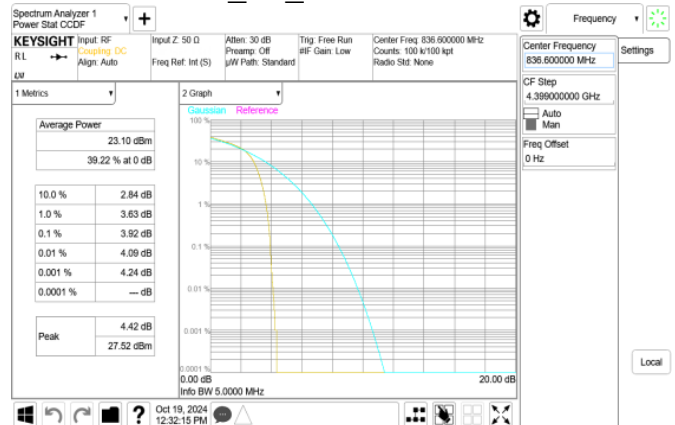
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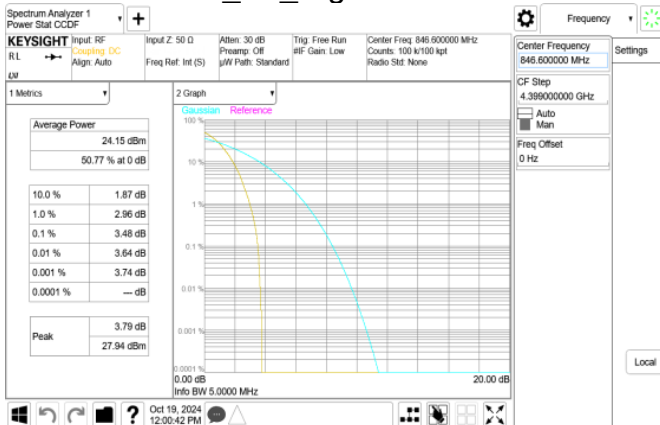
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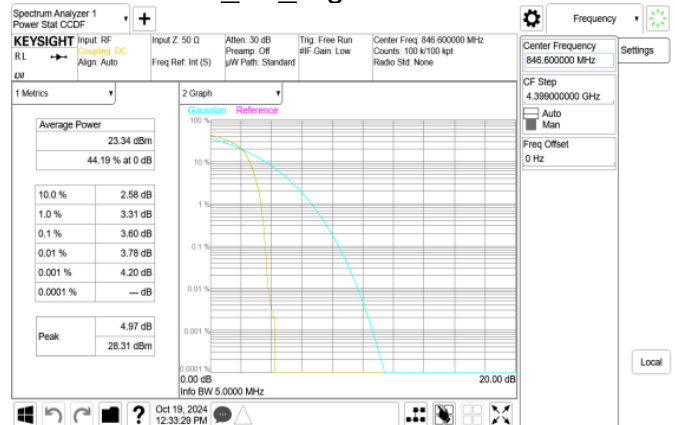
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WCDMA_B5_HighCH4233-846.6



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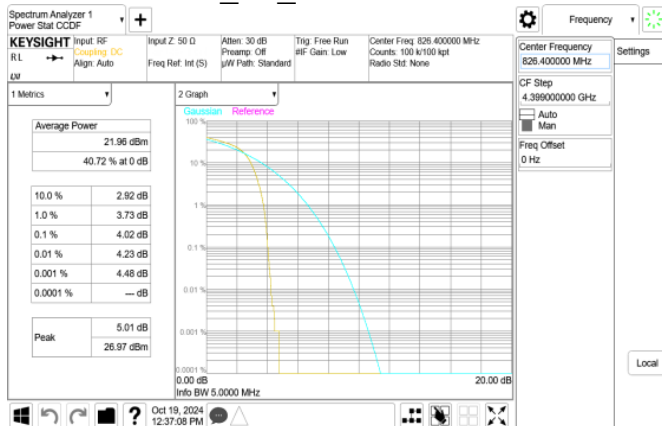


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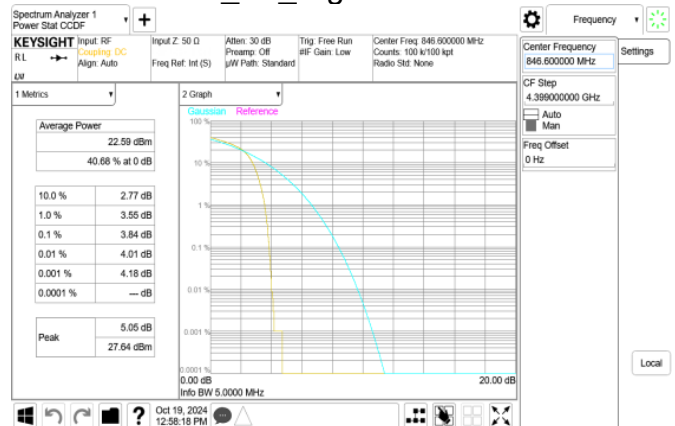
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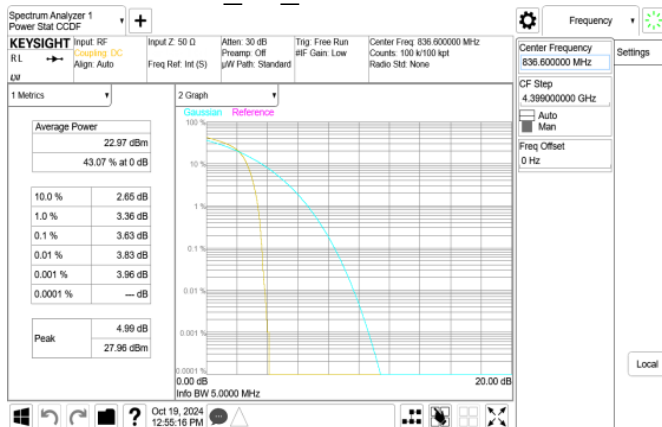
HSUPA_B5_LowCH4132-826.4



HSUPA_B5_HighCH4233-846.6



HSUPA_B5_MidCH4183-836.6



~ End of Report ~

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