

NR Band n41 (PC2)

Keysight Spectrum Analyzer - 21870

RL RF 50 Ω DC SENSE: INT ALIGN: AUTO 05:33:02 PM Aug 27, 2024

PASS IF Gain: Low Center Freq: 2.546010000 GHz Avg: 100.00% of 10 Radio Std: None
Trig: Free Run #Atten: 30 dB Radio Device: BTS

Ref Offset 23.07 dB
Ref 30.0 dBm

Log

Center 2.5460 GHz Span 400.0 MHz

Total Power Ref 25.69 dBm / 100 MHz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	1.000 MHz	1.000 MHz	-20.71	(-7.71)	0.0	---	(---)	---
1.000 MHz	5.500 MHz	1.000 MHz	-26.84	(-13.84)	-1.023 M	---	(---)	---
5.500 MHz	200.0 MHz	1.000 MHz	-29.86	(-4.86)	-6.000 M	---	(---)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	-25.56	(-15.56)	5.000 k	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	-27.09	(-17.09)	1.060 M	---
5.000 MHz	100.0 MHz	1.000 MHz	---	(---)	-28.01	(-15.01)	5.475 M	---
100.0 MHz	200.0 MHz	1.000 MHz	---	(---)	-36.78	(-11.78)	101.5 M	---

MSO STATUS

Low channel

Spectrum Analyzer 1-102555 SEM

KEYSIGHT Input RF: 50 Ω, 24 dB, Free Run, Center Freq: 2.592960000 GHz, Avg: 100.00% of 10, Radio Std: None
Cropping: Off, Corr: C/Corr, Preamp: Off, pW Path: Standard, IF Gain: Low

1 Graph Scale/Div 10 dB Ref Lvl Offset 23.07 dB Ref Value 30.0 dBm

Disp Center 2.5930 GHz Chan Det: Average, #Ofs Det: Average Span 400.00 MHz 2001 pts

2 Table Ref Carrier Power 25.07 dBm / 100 MHz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	1.000 MHz	1.000 MHz	-20.00	(-10.00)	0.0	---	(---)	---
1.000 MHz	5.000 MHz	1.000 MHz	-26.32	(-16.32)	-1.000 M	---	(---)	---
5.000 MHz	52.50 MHz	1.000 MHz	-30.48	(-17.48)	-5.238 M	---	(---)	---
52.50 MHz	200.0 MHz	1.000 MHz	-35.96	(-10.96)	-54.00 M	---	(---)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	-29.26	(-19.26)	15.00 k	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	-30.64	(-20.64)	1.020 M	---
5.000 MHz	100.0 MHz	1.000 MHz	---	(---)	-31.26	(-18.26)	21.15 M	---
100.0 MHz	200.0 MHz	1.000 MHz	---	(---)	-44.74	(-19.74)	134.0 M	---

Sep 10, 2024 9:02:04 AM

Mid channel

Spectrum Analyzer 1-102555 SEM

KEYSIGHT Input RF: 50 Ω, 24 dB, Free Run, Center Freq: 2.640000000 GHz, Avg: 100.00% of 10, Radio Std: None
Cropping: Off, Corr: C/Corr, Preamp: Off, pW Path: Standard, IF Gain: Low

1 Graph Scale/Div 10 dB Ref Lvl Offset 23.07 dB Ref Value 30.0 dBm

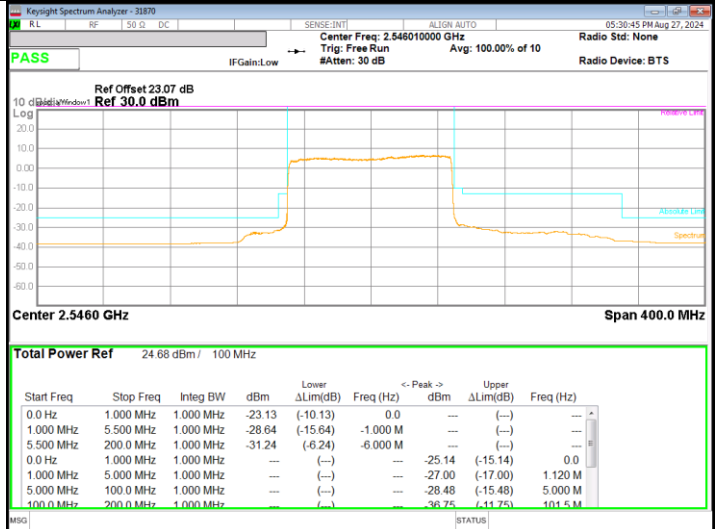
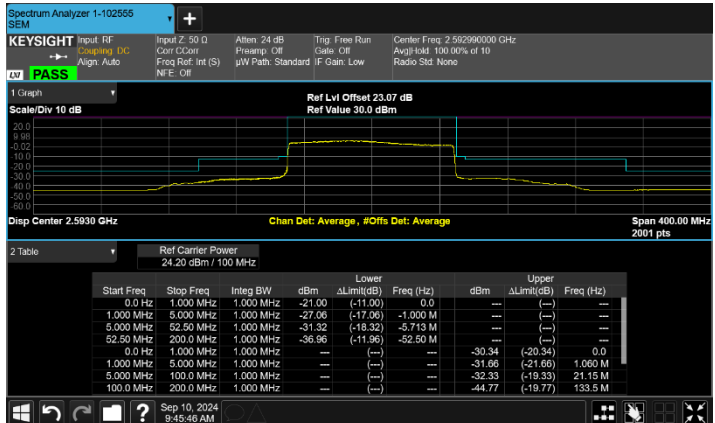
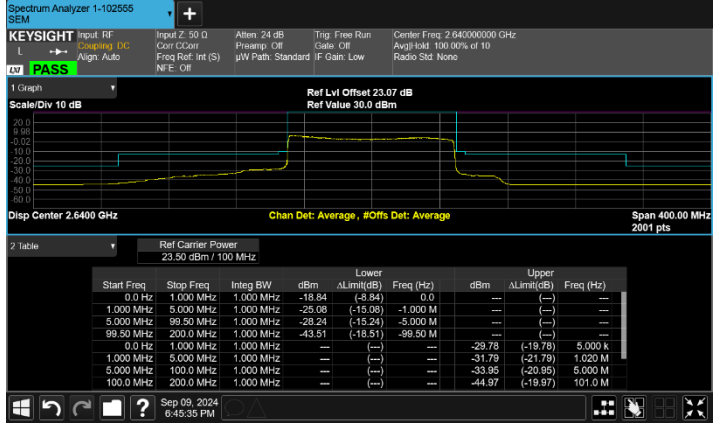
Disp Center 2.6400 GHz Chan Det: Average, #Ofs Det: Average Span 400.00 MHz 2001 pts

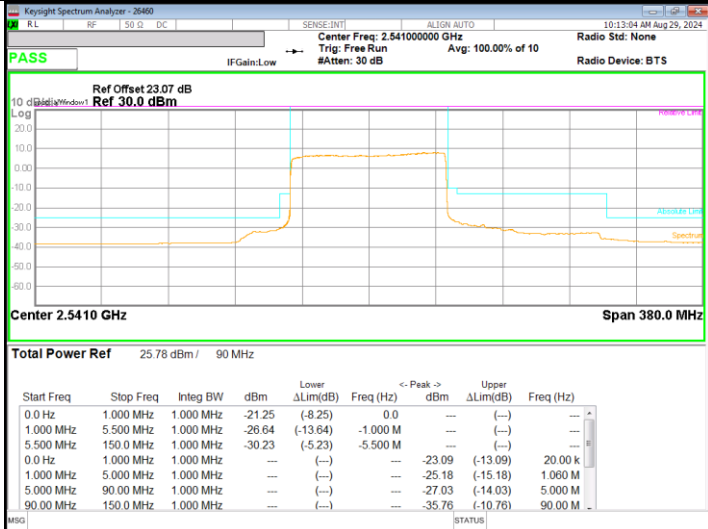
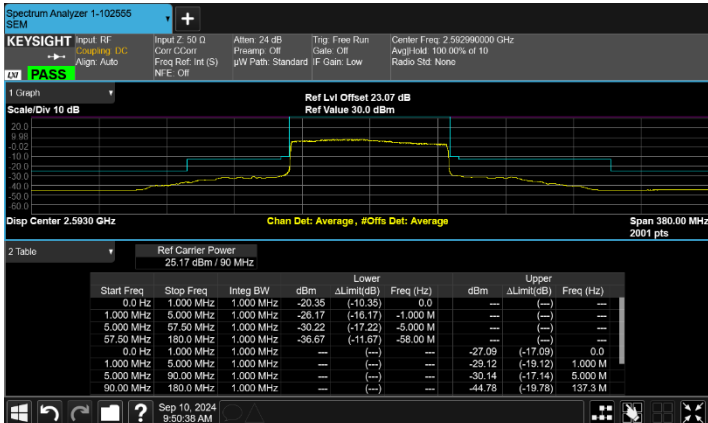
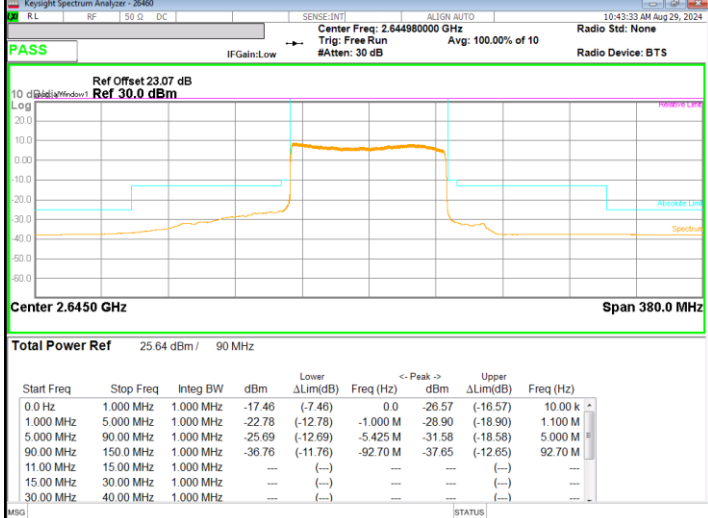
2 Table Ref Carrier Power 24.48 dBm / 100 MHz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	1.000 MHz	1.000 MHz	-16.97	(-6.97)	0.0	---	(---)	---
1.000 MHz	5.000 MHz	1.000 MHz	-23.50	(-13.50)	-1.000 M	---	(---)	---
5.000 MHz	99.50 MHz	1.000 MHz	-26.28	(-13.28)	-5.000 M	---	(---)	---
99.50 MHz	200.0 MHz	1.000 MHz	-43.56	(-18.56)	-100.0 M	---	(---)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	-28.49	(-18.49)	0.0	---
1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	-30.32	(-20.32)	1.060 M	---
5.000 MHz	100.0 MHz	1.000 MHz	---	(---)	-32.22	(-19.22)	5.000 M	---
100.0 MHz	200.0 MHz	1.000 MHz	---	(---)	-44.97	(-19.97)	101.0 M	---

Sep 09, 2024 6:41:11 PM

High channel

100 MHz 16QAM FRB DFT-s_OFDM	 Low channel
	 Mid channel
	 High channel

	 Low channel
90 MHz QPSK FRB DFT-s_OFDM	 Mid channel
	 High channel





Keysight Spectrum Analyzer - 2640

RL RF 50 Ω DC SENSE INT ALIGN AUTO 09:41:50 AM Aug 29, 2024

PASS IF Gain: Low Center Freq: 2.536020000 GHz Avg: 100.00% of 10 Radio Std: None Radio Device: BTS

Ref Offset 23.07 dB Ref 30.0 dBm

Log

Center 2.5360 GHz Span 350.0 MHz

Total Power Ref 24.69 dBm / 80 MHz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	1.000 MHz	1.000 MHz	-23.16	(-10.16)	0.0	---	(---)	---
1.000 MHz	5.500 MHz	1.000 MHz	-27.41	(-14.41)	-1.023 M	---	(---)	---
5.500 MHz	150.0 MHz	1.000 MHz	-31.33	(-6.33)	-5.500 M	---	(---)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	-21.08	(-11.08)	10.00 k
1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	-24.02	(-14.02)	1.000 M
5.000 MHz	80.00 MHz	1.000 MHz	---	(---)	---	-26.84	(-13.84)	16.25 M
80.00 MHz	150.0 MHz	1.000 MHz	---	(---)	---	-35.20	(-10.20)	82.80 M

MSO STATUS

Low channel

Keysight Spectrum Analyzer - 1102555 SEM

Input RF: 50 Ω Input Z: 50 Ω Input DC: Off SENSE INT ALIGN AUTO 10:09:32 AM

KEYSIGHT Input RF: 50 Ω Input Z: 50 Ω Input DC: Off SENSE INT ALIGN AUTO 10:09:32 AM

Coor: C-Cor Freq Ref Int (S) NFE: Off Atten: 24 dB Trg: Free Run Data: Off Center Freq: 2.592990000 GHz Avg: 100.00% of 10 Radio Std: None Radio Device: BTS

1 Green Ref Offset 23.07 dB Ref Value 30.0 dBm

Scale/Div 10 dB

Disp Center 2.5930 GHz Chan Det: Average, #Ofs Det: Average Span 350.0 MHz 2001 pts

2 Table Ref Carrier Power 24.21 dBm / 80 MHz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	1.000 MHz	1.000 MHz	-22.46	(-12.46)	0.0	---	(---)	---
1.000 MHz	5.000 MHz	1.000 MHz	-27.22	(-17.22)	-1.020 M	---	(---)	---
5.000 MHz	62.50 MHz	1.000 MHz	-31.34	(-18.34)	-5.000 M	---	(---)	---
62.50 MHz	160.0 MHz	1.000 MHz	-39.10	(-14.10)	-62.99 M	---	(---)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	-26.78	(-16.78)	5.000 k
1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	-29.51	(-19.51)	1.020 M
5.000 MHz	80.00 MHz	1.000 MHz	---	(---)	---	-30.92	(-17.92)	16.63 M
80.00 MHz	160.0 MHz	1.000 MHz	---	(---)	---	-43.63	(-18.63)	80.00 M

Windows ? Sep 10, 2024 10:09:32 AM

Mid channel

Keysight Spectrum Analyzer - 2640

RL RF 50 Ω DC SENSE INT ALIGN AUTO 10:07:26 AM Aug 29, 2024

PASS IF Gain: Low Center Freq: 2.649990000 GHz Avg: 100.00% of 10 Radio Std: None Radio Device: BTS

Ref Offset 23.07 dB Ref 30.0 dBm

Log

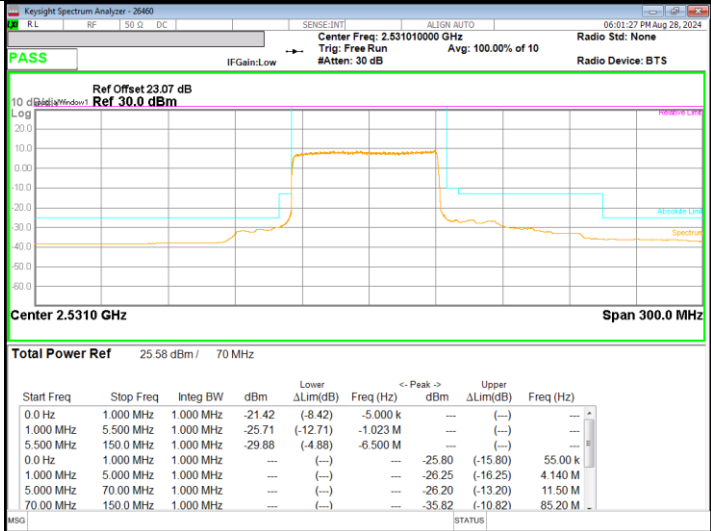
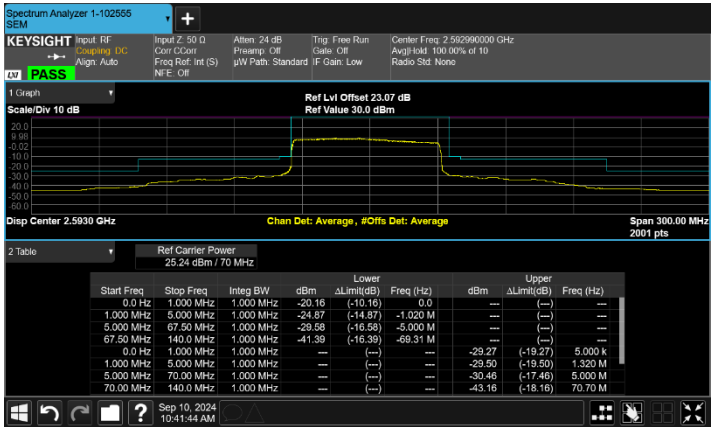
Center 2.6500 GHz Span 350.0 MHz

Total Power Ref 24.57 dBm / 80 MHz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	1.000 MHz	1.000 MHz	-20.66	(-10.66)	0.0	-24.77	(-14.77)	0.0
1.000 MHz	5.000 MHz	1.000 MHz	-25.05	(-15.05)	-1.000 M	-28.01	(-18.01)	1.000 M
5.000 MHz	80.00 MHz	1.000 MHz	-26.34	(-13.34)	-17.38 M	-31.80	(-18.80)	16.25 M
80.00 MHz	150.0 MHz	1.000 MHz	-36.22	(-11.22)	-80.70 M	-37.63	(-12.63)	80.70 M
11.00 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---
15.00 MHz	30.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---
30.00 MHz	40.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

MSO STATUS

High channel

70 MHz QPSK FRB DFT-s_OFDM	 Low channel
	 Mid channel
	 High channel

70 MHz
16QAM
FRB
DFT-s_OFDM

Keysight Spectrum Analyzer - 2640

RL RF 50 Ω DC SENSE INT ALIGN AUTO 08:21:26 AM Aug 29, 2024

PASS IF Gain: Low Center Freq: 2.531010000 GHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS

Ref Offset 23.07 dB Ref 30.0 dBm

Log

Center 2.5310 GHz Span 300.0 MHz

Total Power Ref 24.50 dBm / 70 MHz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	1.000 MHz	1.000 MHz	-22.95	(-9.95)	0.0	---	(---)	---
1.000 MHz	5.500 MHz	1.000 MHz	-26.88	(-13.88)	-1.023 M	---	(---)	---
5.500 MHz	150.0 MHz	1.000 MHz	-30.81	(-5.81)	-6.000 M	---	(---)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	-27.45	(-17.45)	35.00 k
1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	-27.42	(-17.42)	3.940 M
5.000 MHz	70.00 MHz	1.000 MHz	---	(---)	---	-27.42	(-14.42)	10.53 M
70.00 MHz	150.0 MHz	1.000 MHz	---	(---)	---	-35.84	(-10.84)	71.20 M

STATUS

Low channel

Keysight Spectrum Analyzer - 1-102555 SEM

KEYSIGHT Input RF: 50 Ω Coor: C/Cort Freq Ref Int (S) N/E Off Align: Auto Atten: 24 dB Preamp: Off pW Path: Standard Trig: Free Run Data Off Radio Std: None Center Freq: 2.592960000 GHz Avg: 100.00% of 10

1 Green Ref Lvl Offset 23.07 dB Ref Value 30.0 dBm

Scale/Div 10 dB

Disp Center 2.5930 GHz Chan Det: Average, #Ofs Det: Average Span 300.0 MHz 2001 pts

2 Table Ref Carrier Power 24.18 dBm / 70 MHz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	1.000 MHz	1.000 MHz	-22.26	(-12.26)	0.0	---	(---)	---
1.000 MHz	5.000 MHz	1.000 MHz	-26.16	(-16.16)	-1.000 M	---	(---)	---
5.000 MHz	67.50 MHz	1.000 MHz	-30.78	(-17.78)	-6.875 M	---	(---)	---
67.50 MHz	140.0 MHz	1.000 MHz	-41.34	(-16.34)	-66.95 M	---	(---)	---
0.0 Hz	1.000 MHz	1.000 MHz	---	(---)	---	-30.92	(-20.92)	995.0 k
1.000 MHz	5.000 MHz	1.000 MHz	---	(---)	---	-30.82	(-20.82)	1.100 M
5.000 MHz	70.00 MHz	1.000 MHz	---	(---)	---	-31.59	(-18.59)	5.000 M
70.00 MHz	140.0 MHz	1.000 MHz	---	(---)	---	-43.09	(-18.09)	72.10 M

Sep 10, 2024 10:47:21 AM

Mid channel

Keysight Spectrum Analyzer - 2640

RL RF 50 Ω DC SENSE INT ALIGN AUTO 09:42:53 AM Aug 29, 2024

PASS IF Gain: Low Center Freq: 2.655000000 GHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS

Ref Offset 23.07 dB Ref 30.0 dBm

Log

Center 2.6550 GHz Span 300.0 MHz

Total Power Ref 24.53 dBm / 70 MHz

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	1.000 MHz	30.00 kHz	-37.24	(-27.24)	-265.0 k	-44.26	(-34.26)	370.0 k
1.000 MHz	5.000 MHz	1.000 MHz	-25.26	(-15.26)	-1.000 M	-30.76	(-20.76)	1.020 M
5.000 MHz	70.00 MHz	1.000 MHz	-28.57	(-15.57)	-5.325 M	-31.53	(-18.53)	10.20 M
70.00 MHz	150.0 MHz	1.000 MHz	-35.54	(-10.54)	-70.40 M	-37.63	(-12.63)	72.00 M
11.00 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---
15.00 MHz	30.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---
30.00 MHz	40.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

STATUS

High channel

