



BUREAU
VERITAS

Reference No.: PSZ-NQN2412090319RF08





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The screenshot displays a Spectrum Analyzer interface with the following details:

- Top Bar:** Includes a '+' icon, a gear icon, and a 'Frequency' dropdown menu.
- Header Section:**
 - KEYSIGHT** logo and 'Input RF' label.
 - Input Z:** 50 Ω
 - Corr:** CCorr
 - Freq Ref:** Int (S)
 - #AAtt:** 30 dB
 - PNO:** Fast
 - Gate:** LO
 - IF Gain:** Low
 - Sig Track:** Off
 - #Avg Type:** Power (RMS)
 - Avg/Hold:** 1/1
 - Trig:** External 1
 - Center Frequency:** 23.500000000 GHz
 - Span:** 7.000000000 GHz
 - Sweep Span:** Zero Span
 - Full Span:** (button)
 - Start Freq:** 20.000000000 GHz
 - Stop Freq:** 27.000000000 GHz
 - AUTO TUNE:** (button)
 - CF Step:** 700.000000 MHz
 - Auto/Man:** (toggle)
 - Freq Offset:** 0 Hz
 - X-Axis Scale:** Log
 - Signal Track (Span Zoom):** (button)
- Main Display Area:**
 - Scale/Div:** 10 dB
 - Log:** (button)
 - Ref Lvl Offset:** 9.07 dB
 - Ref Level:** 20.00 dBm
 - Mkr1:** 25.644 80 GHz
 - Level:** -42.969 dBm
 - Trace:** A yellow signal trace is visible, with a green horizontal line at -25.00 dBm.
 - Start:** 20.000 GHz
 - #Video BW:** 3.0 MHz
 - Stop:** 27.000 GHz
 - #Sweep:** ~1.00 s (20001 pts)
- Bottom Bar:** Includes a Windows taskbar with the date 'Apr 16, 2024' and time '8:44:08 PM'.

Keysight Spectrum Analyzer 1 Sweep SA

Input: Z: 50 Ω, Cor: CCor, Freq Ref: Int (S), #Atten: 30 dB, PNO: Fast, Gate: LO, IF Gain: Low, Sig Track: Off, #Avg Type: Power (RMS), Avg/Hold: 1/1, Trig: External 1, A A A A A A A A

Center Frequency: 23.500000000 GHz

Span: 7.000000000 GHz

Sweep Span: Zero Span

Zero Span: Full Span

Start Freq: 20.000000000 GHz

Stop Freq: 27.000000000 GHz

AUTO TUNE

CF Step: 700.0000000 MHz

Auto/Man: Auto

Freq Offset: 0 Hz

X-Axis Scale: Log / Lin

Signal Track: Span Zoom

1 Spectrum

Ref Lvl Offset 9.07 dB

Ref Level 20.00 dBm

Mkr1 25.588 80 GHz

-43.111 dBm

Scale/Div 10 dB

Log

0k1 -25.00 dBm

Start 20.000 GHz

#Res BW 1.0 MHz

#Video BW 3.0 MHz

Stop 27.000 GHz

#Sweep ~1.00 s (20001 pts)

The screenshot displays a Spectrum Analyzer 1 interface. At the top, the title bar reads "Spectrum Analyzer 1" and "Sweep SA". Below the title bar, there are several control panels. On the left, the "KEYSIGHT" logo is visible, along with input settings: "Input: RF", "Coupling: DC", and "Align: Auto". The central panel shows various parameters: "Input Z: 50 Ohm", "Att: 0 dB", "PNO: Fast", "Gate: LO", "IF Gain: Low", and "Sig Track: Off". On the right, there are settings for "Avg Type: Power (RMS)", "Avg/Hold: 1", and "Tng: External 1". A frequency scale is shown at the top right, ranging from 515.000000 MHz to 515.000000 MHz. The main display area shows a spectrum plot with a green trace at 912.2 MHz and a yellow trace at -60.660 dBm. The plot has a grid and a scale of 10 dB. The bottom status bar shows "Start 0.0300 GHz", "Res BW 1.0 MHz", "Video BW 3.0 MHz", "Stop 1.0000 GHz", and "Sweep -1.00 s (2001 pts)".

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LTE BAND 42C

26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
42-42	5MHz-20MHz	QPSK-QPSK	42123-42240	25RB#0-100RB#0	22.901	24.74	PASS
42-42	5MHz-20MHz	QPSK-QPSK	42498-42615	25RB#0-100RB#0	22.950	25.23	PASS
42-42	5MHz-20MHz	QPSK-QPSK	42873-42990	25RB#0-100RB#0	22.968	26.26	PASS
42-42	5MHz-20MHz	16QAM-16QAM	42123-42240	25RB#0-100RB#0	22.917	24.79	PASS
42-42	5MHz-20MHz	16QAM-16QAM	42498-42615	25RB#0-100RB#0	22.912	25.32	PASS
42-42	5MHz-20MHz	16QAM-16QAM	42873-42990	25RB#0-100RB#0	23.005	24.65	PASS
42-42	10MHz-20MHz	QPSK-QPSK	42145-42289	50RB#0-100RB#0	27.851	31.53	PASS
42-42	10MHz-20MHz	QPSK-QPSK	42496-42640	50RB#0-100RB#0	27.821	30.48	PASS
42-42	10MHz-20MHz	QPSK-QPSK	42846-42990	50RB#0-100RB#0	27.836	31.08	PASS
42-42	10MHz-20MHz	16QAM-16QAM	42145-42289	50RB#0-100RB#0	27.815	31.07	PASS
42-42	10MHz-20MHz	16QAM-16QAM	42496-42640	50RB#0-100RB#0	27.894	31.22	PASS
42-42	10MHz-20MHz	16QAM-16QAM	42846-42990	50RB#0-100RB#0	27.829	31.27	PASS
42-42	15MHz-20MHz	QPSK-QPSK	42168-42339	75RB#0-100RB#0	32.703	35.99	PASS
42-42	15MHz-20MHz	QPSK-QPSK	42493-42664	75RB#0-100RB#0	32.766	35.40	PASS
42-42	15MHz-20MHz	QPSK-QPSK	42819-42990	75RB#0-100RB#0	32.293	36.19	PASS
42-42	15MHz-20MHz	16QAM-16QAM	42168-42339	75RB#0-100RB#0	32.738	37.26	PASS
42-42	15MHz-20MHz	16QAM-16QAM	42493-42664	75RB#0-100RB#0	32.767	37.50	PASS
42-42	15MHz-20MHz	16QAM-16QAM	42819-42990	75RB#0-100RB#0	32.320	36.01	PASS
42-42	20MHz-5MHz	QPSK-QPSK	42190-42307	100RB#0-25RB#0	22.977	25.62	PASS
42-42	20MHz-5MHz	QPSK-QPSK	42565-42682	100RB#0-25RB#0	22.917	24.59	PASS
42-42	20MHz-5MHz	QPSK-QPSK	43040-43057	100RB#0-25RB#0	22.964	25.47	PASS
42-42	20MHz-5MHz	16QAM-16QAM	42190-42307	100RB#0-25RB#0	22.962	25.00	PASS
42-42	20MHz-5MHz	16QAM-16QAM	42565-42682	100RB#0-25RB#0	22.959	25.40	PASS
42-42	20MHz-5MHz	16QAM-16QAM	43040-43057	100RB#0-25RB#0	22.926	24.76	PASS
42-42	20MHz-10MHz	QPSK-QPSK	41891-42035	100RB#0-50RB#0	27.506	29.60	PASS
42-42	20MHz-10MHz	QPSK-QPSK	42190-42334	100RB#0-50RB#0	28.301	31.34	PASS
42-42	20MHz-10MHz	QPSK-QPSK	42541-42685	100RB#0-50RB#0	27.844	29.90	PASS
42-42	20MHz-10MHz	16QAM-16QAM	41891-42035	100RB#0-50RB#0	27.524	30.12	PASS
42-42	20MHz-10MHz	16QAM-16QAM	42190-42334	100RB#0-50RB#0	27.802	29.56	PASS
42-42	20MHz-10MHz	16QAM-16QAM	42541-42685	100RB#0-50RB#0	27.810	29.76	PASS
42-42	20MHz-15MHz	QPSK-QPSK	42190-42361	100RB#0-75RB#0	32.714	36.36	PASS
42-42	20MHz-15MHz	QPSK-QPSK	42516-42687	100RB#0-75RB#0	32.675	35.71	PASS
42-42	20MHz-15MHz	QPSK-QPSK	42841-43012	100RB#0-75RB#0	32.292	35.36	PASS
42-42	20MHz-15MHz	16QAM-16QAM	42190-42361	100RB#0-75RB#0	32.716	34.59	PASS
42-42	20MHz-15MHz	16QAM-16QAM	42516-42687	100RB#0-75RB#0	32.733	34.56	PASS
42-42	20MHz-15MHz	16QAM-16QAM	42841-43012	100RB#0-75RB#0	32.339	34.34	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42190-42388	100RB#0-100RB#0	37.664	43.04	PASS

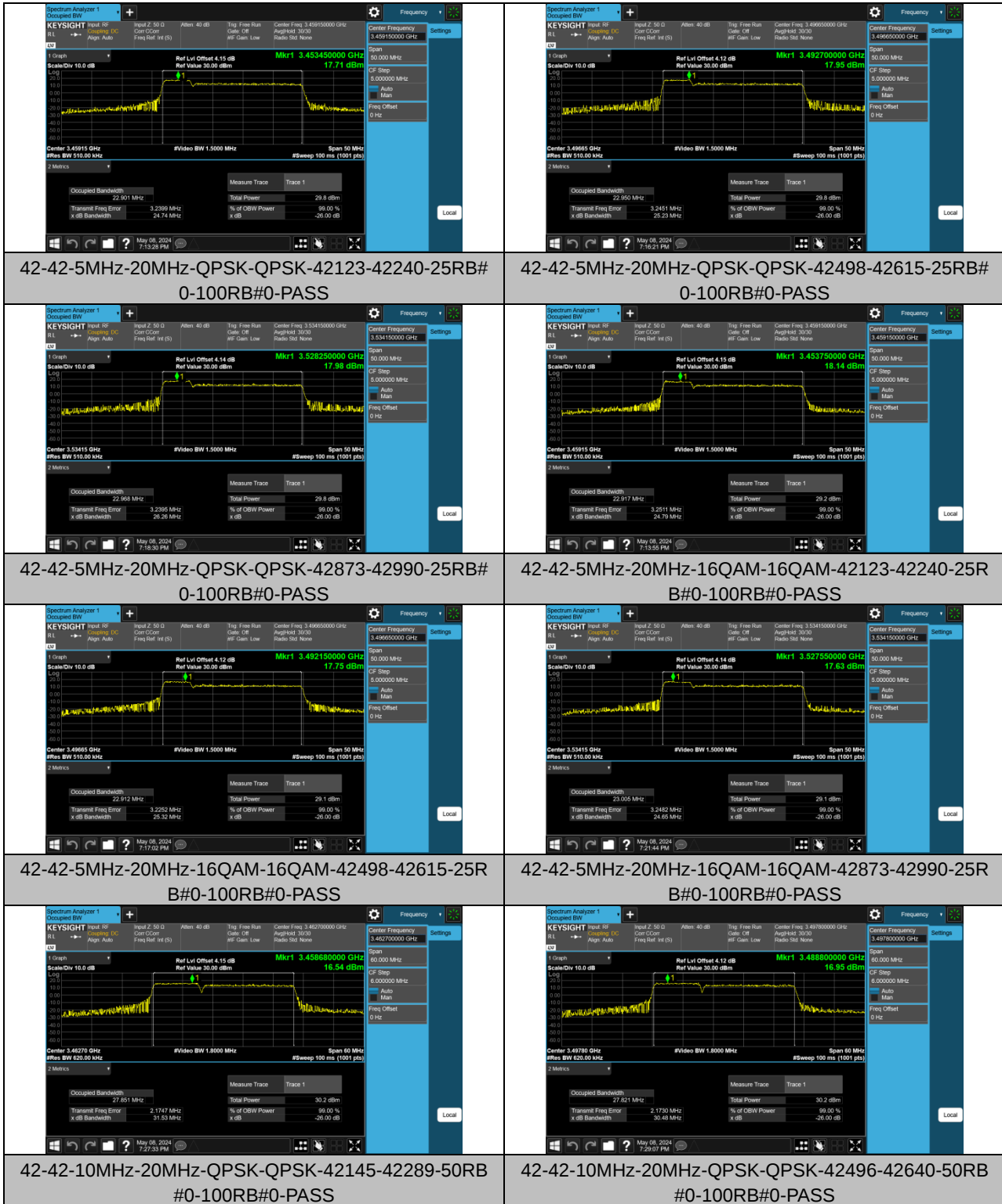


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42-42	20MHz-20MHz	QPSK-QPSK	42491-42689	100RB#0-100RB#0	37.658	41.94	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42792-42990	100RB#0-100RB#0	36.910	42.09	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42190-42388	100RB#0-100RB#0	37.763	43.24	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42491-42689	100RB#0-100RB#0	37.593	40.23	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42792-42990	100RB#0-100RB#0	37.101	41.80	PASS

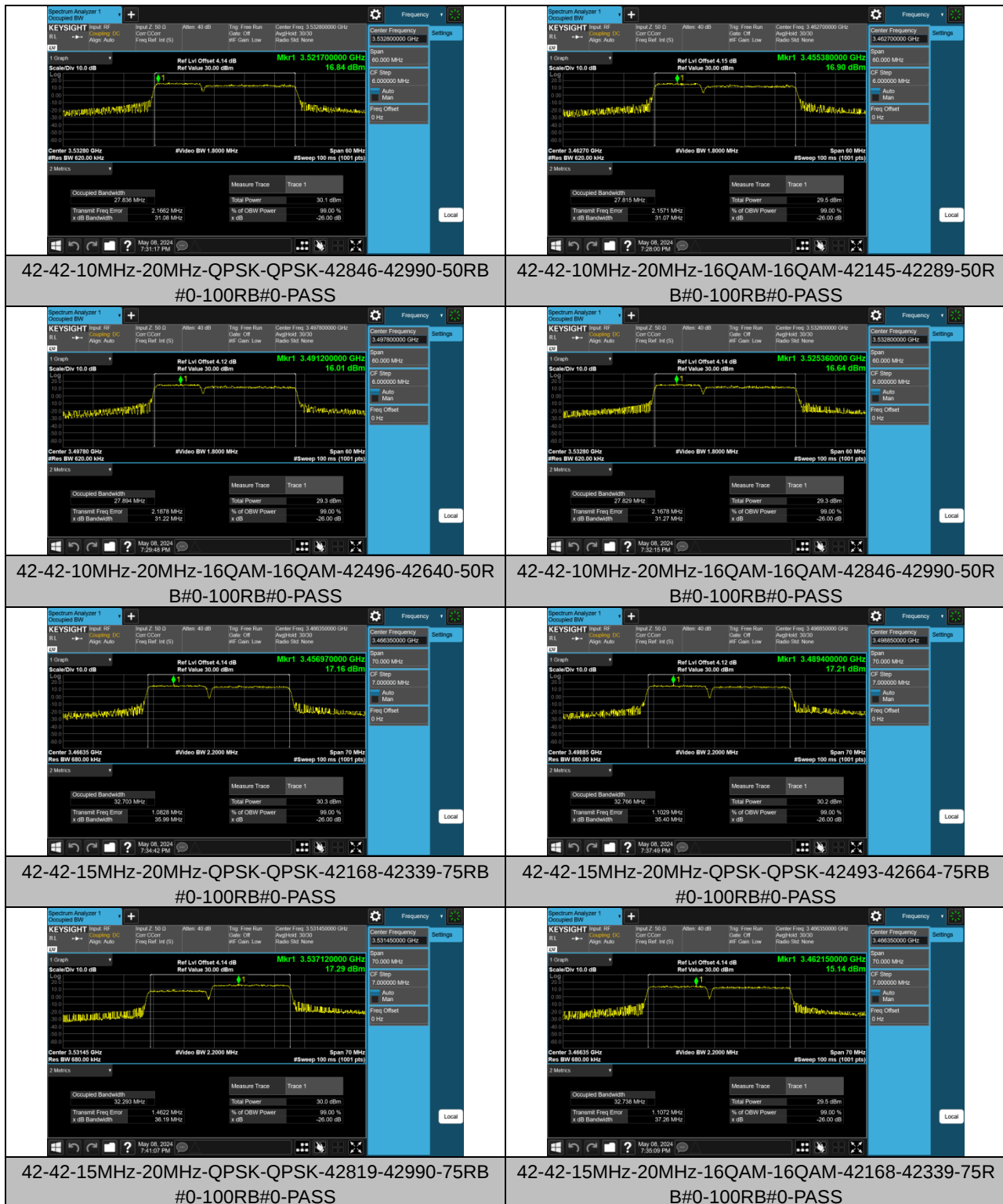
TEST GRAPHS





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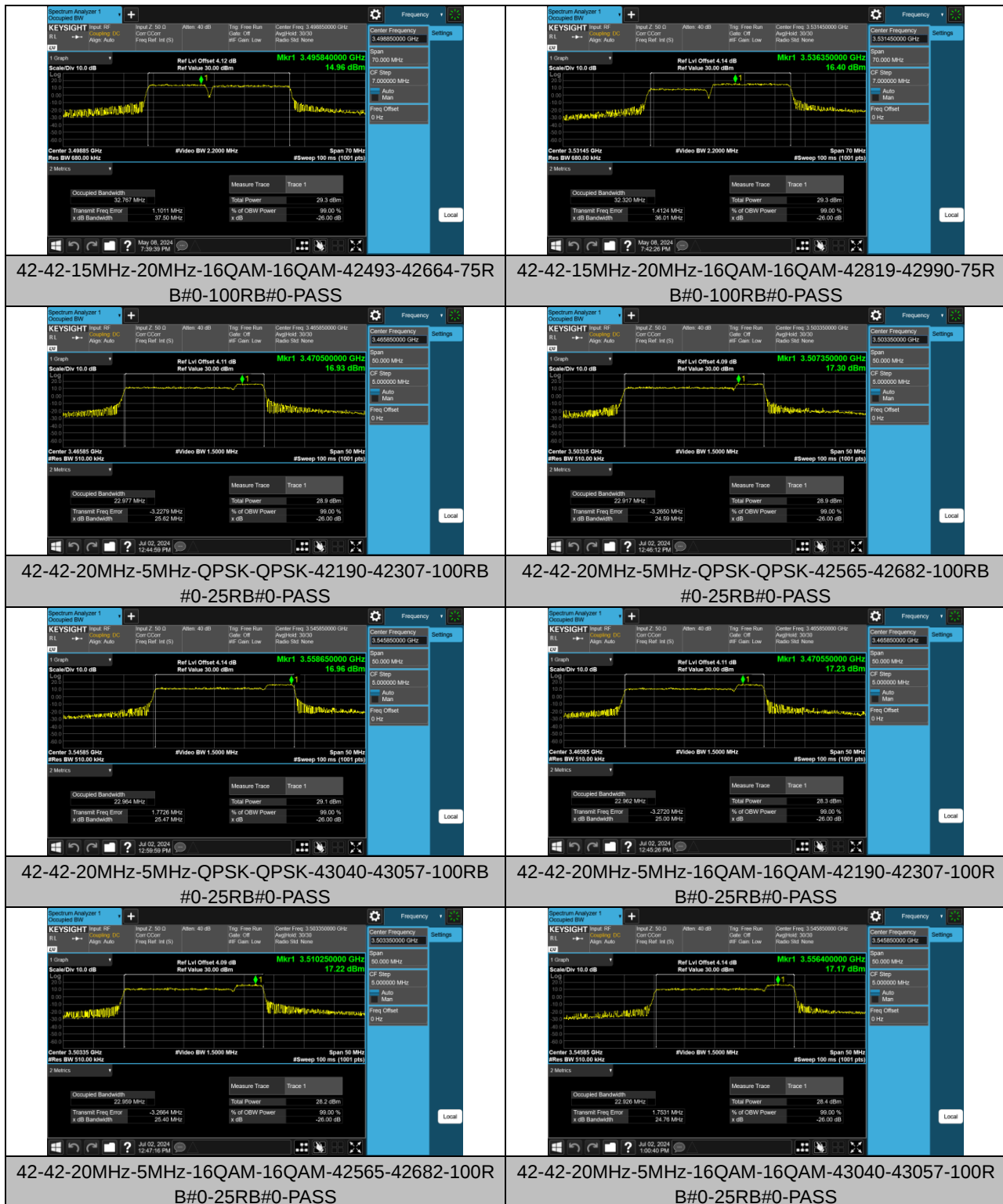
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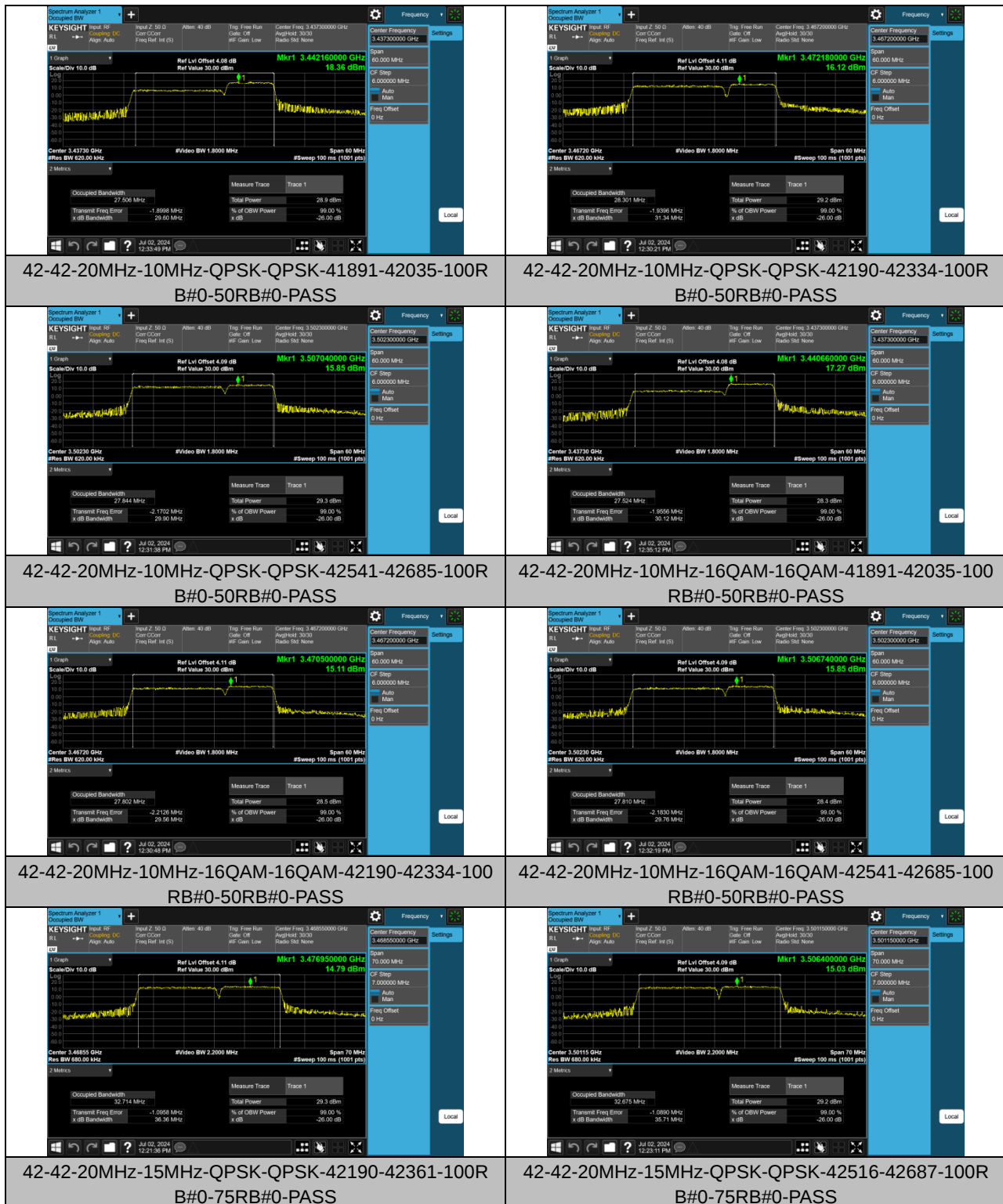
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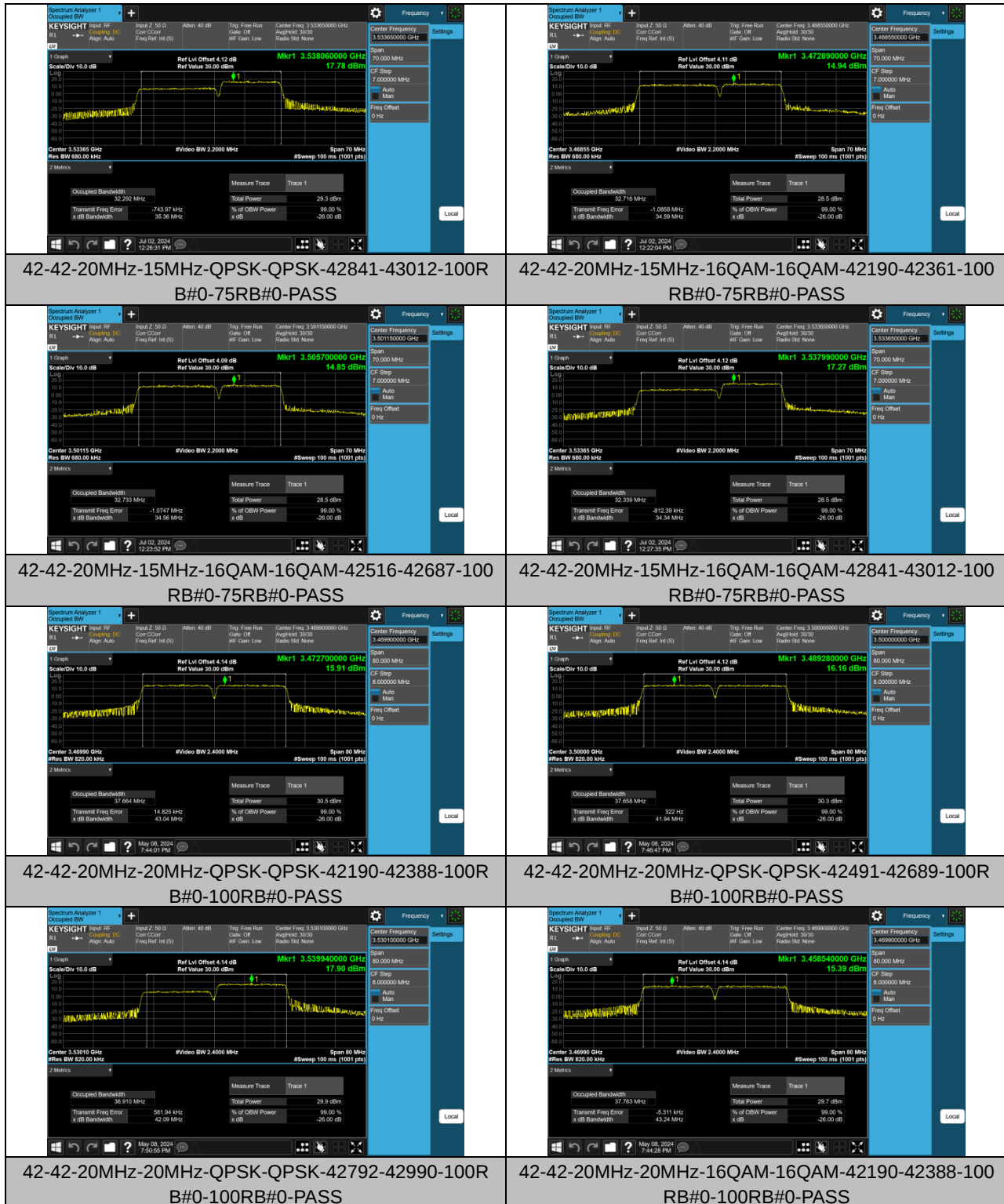
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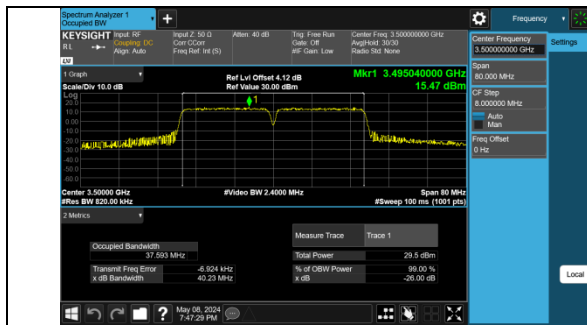
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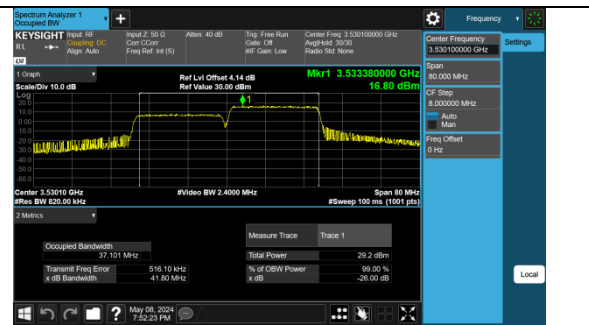


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42-42-20MHz-20MHz-16QAM-16QAM-42491-42689-100
RB#0-100RB#0-PASS



42-42-20MHz-20MHz-16QAM-16QAM-42792-42990-100
RB#0-100RB#0-PASS

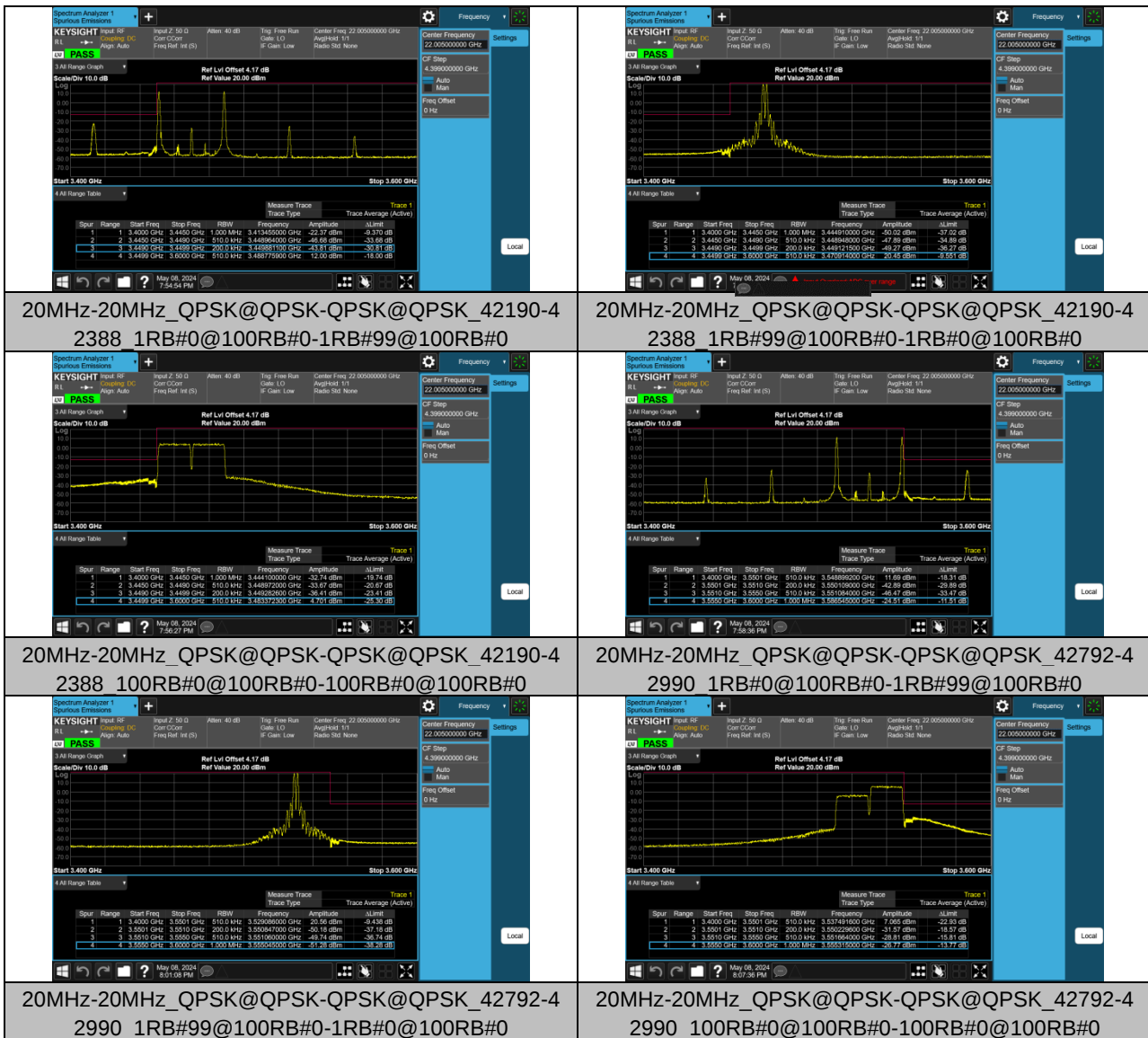


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BAND EDGE TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
42-42	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	42190-42388	1RB#0@100RB#0-1RB#99@100RB#0	-22.37	PASS
42-42	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	42190-42388	1RB#99@100RB#0-1RB#0@100RB#0	-49.27	PASS
42-42	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	42190-42388	100RB#0@100RB#0-100RB#0@100RB#0	-32.74	PASS
42-42	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	42792-42990	1RB#0@100RB#0-1RB#99@100RB#0	-24.51	PASS
42-42	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	42792-42990	1RB#99@100RB#0-1RB#0@100RB#0	-49.74	PASS
42-42	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	42792-42990	100RB#0@100RB#0-100RB#0@100RB#0	-26.77	PASS

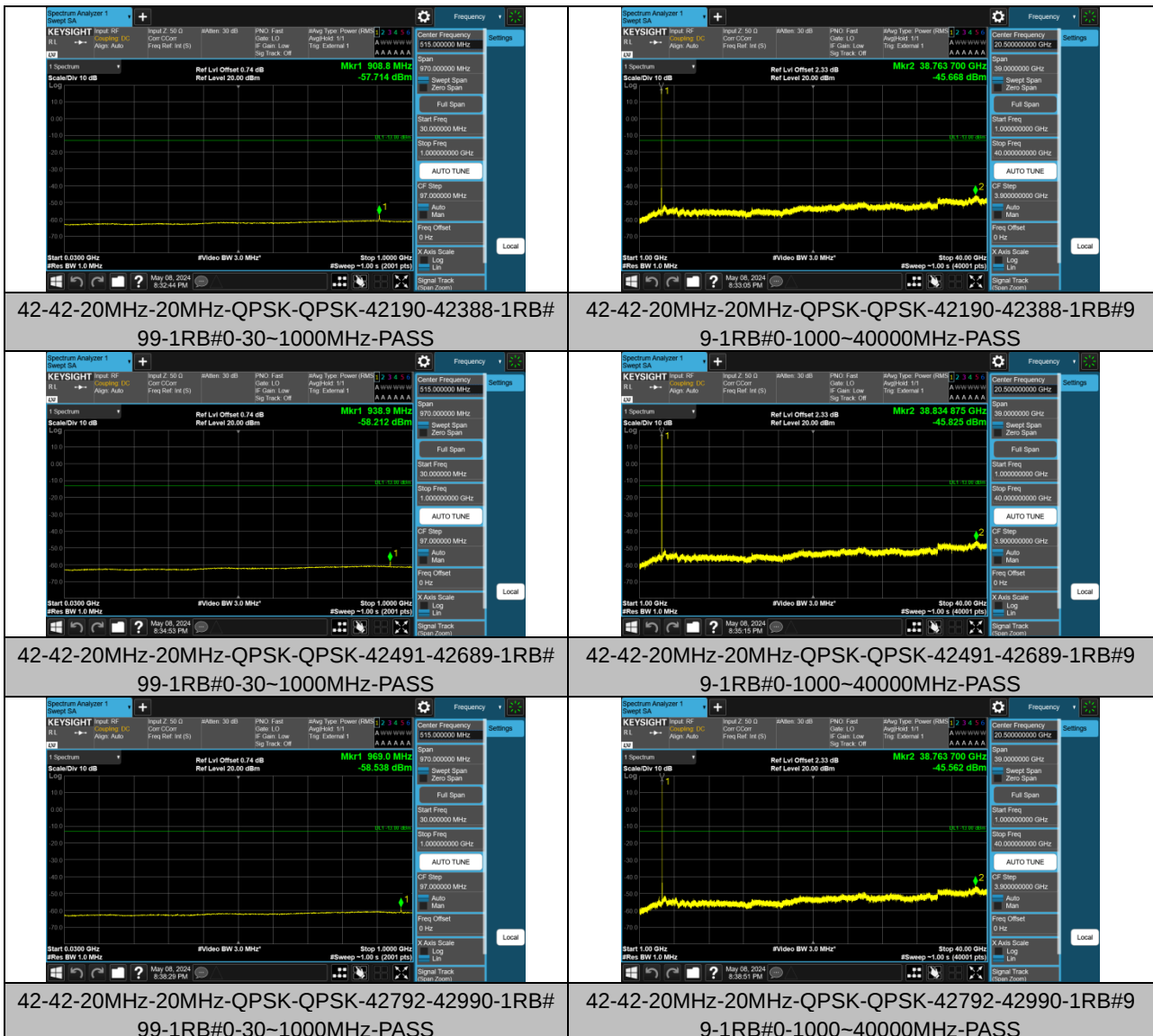
TEST GRAPHS



CONDUCTED SPURIOUS EMISSION TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
42-42	20MHz-20MHz	QPSK-QPSK	42190-42388	1RB#99-1RB#0	30~1000MHz	-57.71	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42190-42388	1RB#99-1RB#0	1000~40000MHz	-45.67	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42491-42689	1RB#99-1RB#0	30~1000MHz	-58.21	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42491-42689	1RB#99-1RB#0	1000~40000MHz	-45.83	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42792-42990	1RB#99-1RB#0	30~1000MHz	-58.54	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42792-42990	1RB#99-1RB#0	1000~40000MHz	-45.56	PASS

TEST GRAPHS



LTE BAND 66B

26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
66-66	5MHz-5MHz	QPSK-QPSK	131997-132045	25RB#0-25RB#0	9.2830	9.849	PASS
66-66	5MHz-5MHz	QPSK-QPSK	132398-132446	25RB#0-25RB#0	9.2985	9.901	PASS
66-66	5MHz-5MHz	QPSK-QPSK	132599-132647	25RB#0-25RB#0	9.2801	9.889	PASS
66-66	5MHz-5MHz	16QAM-16QAM	131997-132045	25RB#0-25RB#0	9.2846	9.936	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132398-132446	25RB#0-25RB#0	9.2768	9.899	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132599-132647	25RB#0-25RB#0	9.2812	9.881	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132000-132072	25RB#0-50RB#0	13.940	14.86	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132375-132447	25RB#0-50RB#0	13.938	14.82	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132550-132622	25RB#0-50RB#0	13.934	14.73	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132000-132072	25RB#0-50RB#0	13.917	14.84	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132375-132447	25RB#0-50RB#0	13.931	14.79	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132550-132622	25RB#0-50RB#0	13.913	14.75	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132002-132095	25RB#0-75RB#0	18.335	19.39	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132353-132446	25RB#0-75RB#0	18.258	19.23	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132504-132597	25RB#0-75RB#0	18.291	19.38	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132002-132095	25RB#0-75RB#0	18.278	19.33	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132353-132446	25RB#0-75RB#0	18.267	19.29	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132504-132597	25RB#0-75RB#0	18.237	19.19	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132022-132094	50RB#0-25RB#0	13.913	14.77	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132397-132469	50RB#0-25RB#0	13.946	14.82	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132572-132644	50RB#0-25RB#0	13.937	14.81	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132022-132094	50RB#0-25RB#0	13.927	14.80	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132397-132469	50RB#0-25RB#0	13.931	14.76	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132572-132644	50RB#0-25RB#0	13.922	14.90	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132022-132121	50RB#0-50RB#0	18.906	20.09	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132373-132472	50RB#0-50RB#0	18.844	20.12	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132523-132622	50RB#0-50RB#0	18.841	20.01	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132022-132121	50RB#0-50RB#0	18.843	20.05	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132373-132472	50RB#0-50RB#0	18.843	20.06	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132523-132622	50RB#0-50RB#0	18.831	20.04	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132047-132140	75RB#0-25RB#0	18.276	19.35	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132398-132491	75RB#0-25RB#0	18.303	19.41	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132549-132642	75RB#0-25RB#0	18.274	19.38	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132047-132140	75RB#0-25RB#0	18.284	19.35	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132398-132491	75RB#0-25RB#0	18.302	19.45	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132549-132642	75RB#0-25RB#0	18.217	19.23	PASS

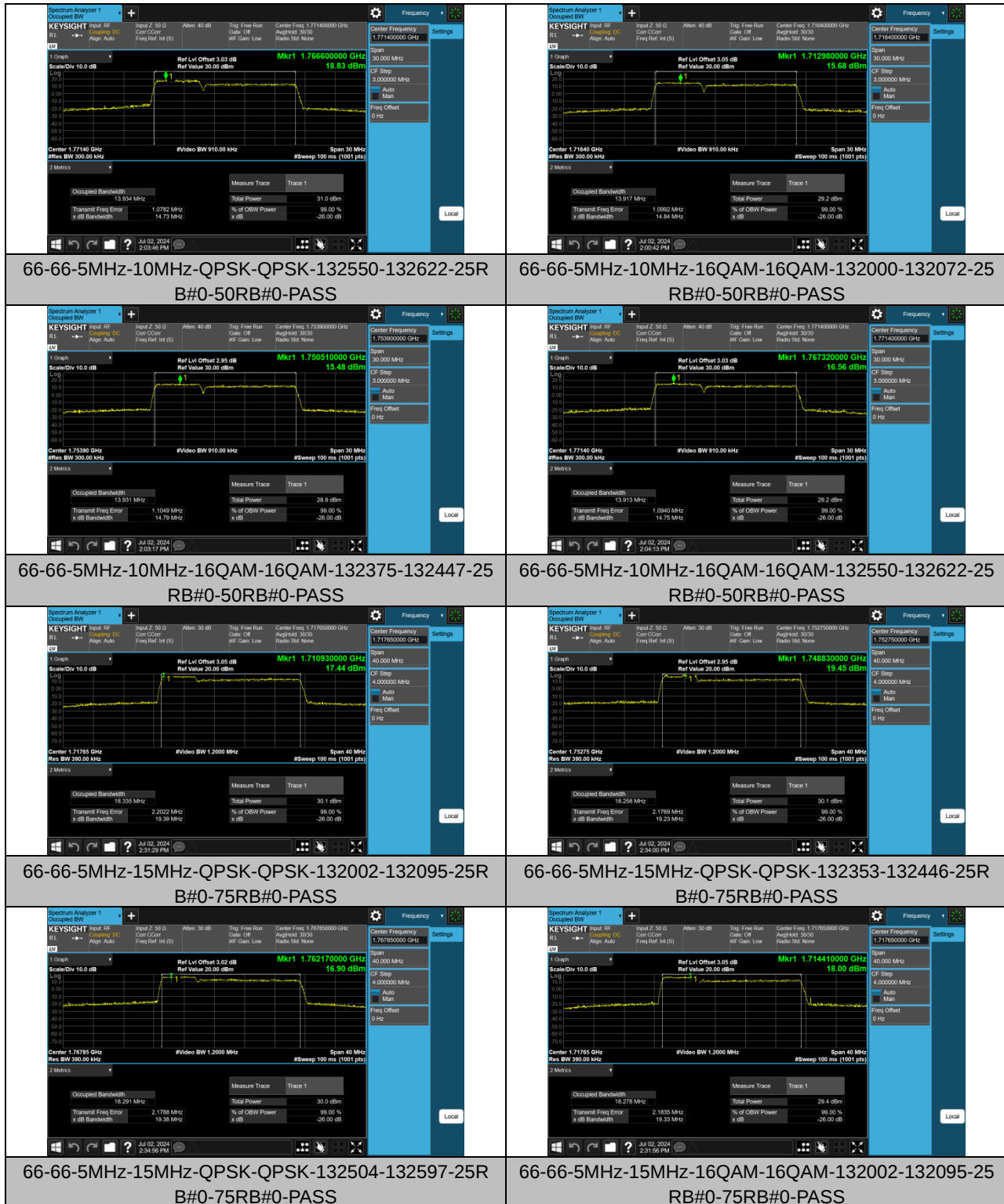
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