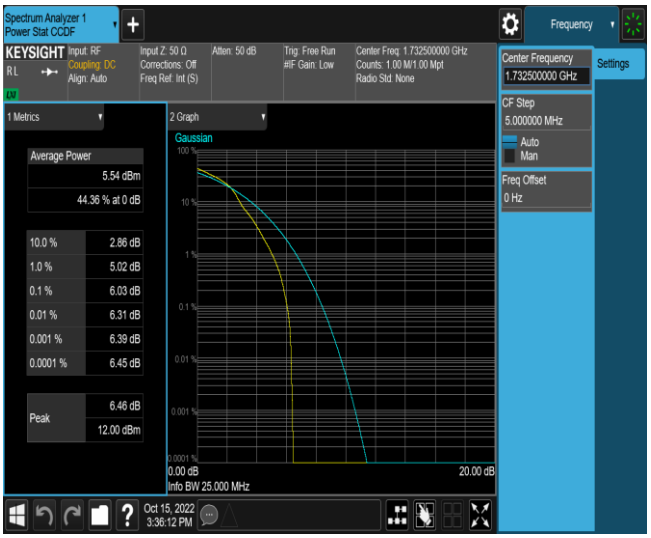
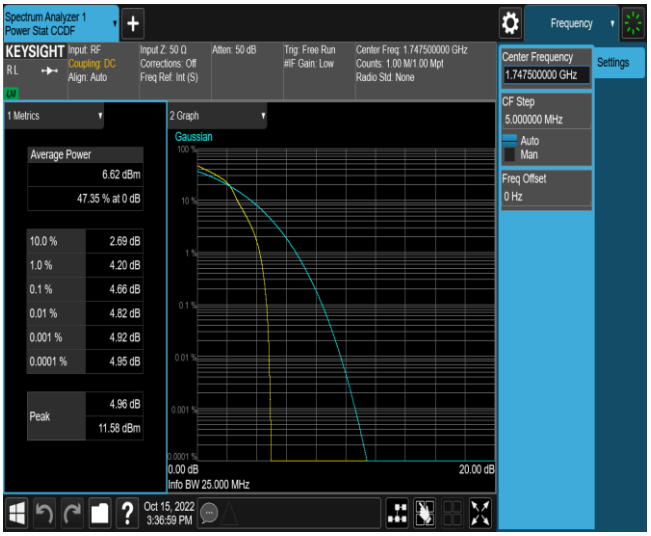


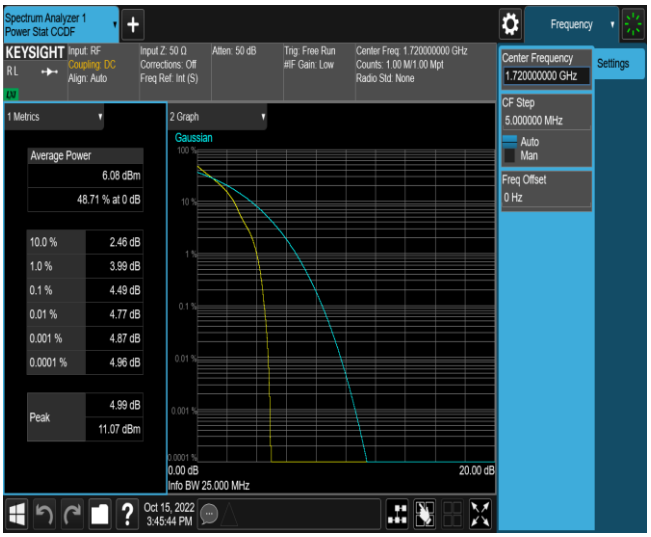
Band4-15MHz-16QAM-20175-75RB#0

Band4-15MHz-16QAM-20325-1RB#0



Band4-15MHz-16QAM-20325-75RB#0

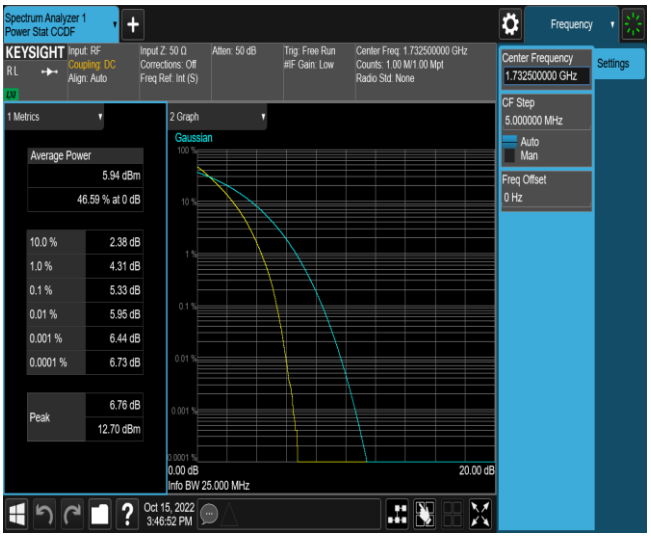
Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0

Band4-20MHz-QPSK-20175-1RB#0

Band4-20MHz-QPSK-20175-100RB#0



Band4-20MHz-QPSK-20300-1RB#0

Band4-20MHz-QPSK-20300-100RB#0

Band4-20MHz-16QAM-20050-1RB#0

Band4-20MHz-16QAM-20050-100RB#0

Band4-20MHz-16QAM-20175-1RB#0

Band4-20MHz-16QAM-20175-100RB#0

Band4-20MHz-16QAM-20300-1RB#0

Band4-20MHz-16QAM-20300-100RB#0

Spectrum Analyzer 1
Power Stat CCDF
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
Atten: 50 dB
Trig: Free Run
#IF Gain: Low
Center Freq: 1.745000000 GHz
Counts: 1.00 M/1.00 Mpt
Radio Std: None
Center Frequency
1.745000000 GHz
Settings
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 Metrics
Average Power
5.64 dBm
46.10 % at 0 dB
10.0 % 2.81 dB
1.0 % 4.62 dB
0.1 % 5.62 dB
0.01 % 6.21 dB
0.001 % 6.58 dB
0.0001 % 6.70 dB
Peak
6.86 dB
12.50 dBm
2 Graph
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.00 dB
20.00 dB
Info BW 25.000 MHz
Oct 15, 2022
3:47:49 PM

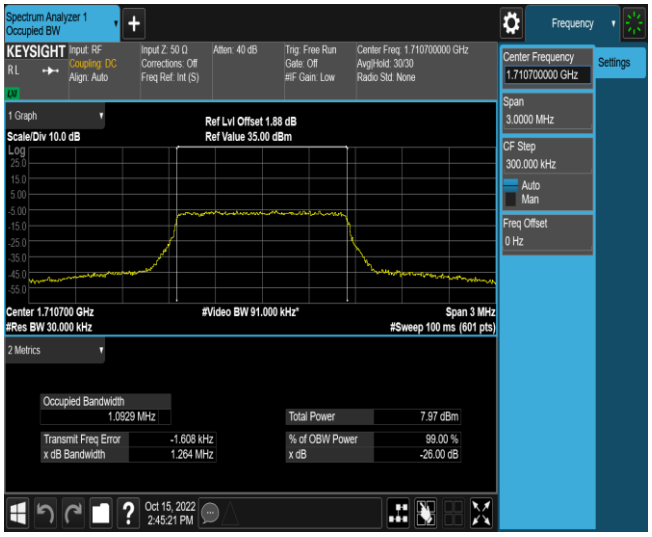
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0929	1.264	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0887	1.256	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0886	1.254	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0885	1.262	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0874	1.238	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0890	1.269	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6865	2.852	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6941	2.858	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6899	2.866	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6882	2.862	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6905	2.860	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6927	2.848	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5013	4.826	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.4956	4.824	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5025	4.817	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5049	4.791	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5025	4.829	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5036	4.803	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9946	9.524	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9880	9.506	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9770	9.521	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9803	9.518	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9840	9.509	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9826	9.519	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.493	14.28	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.461	14.23	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.471	14.28	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.492	14.29	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.458	14.24	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.469	14.27	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.008	18.96	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.930	18.96	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.934	18.96	PASS

Band4	20MHz	16QAM	20050	100RB#0	17.994	18.98	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.956	18.96	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.934	18.94	PASS

Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0

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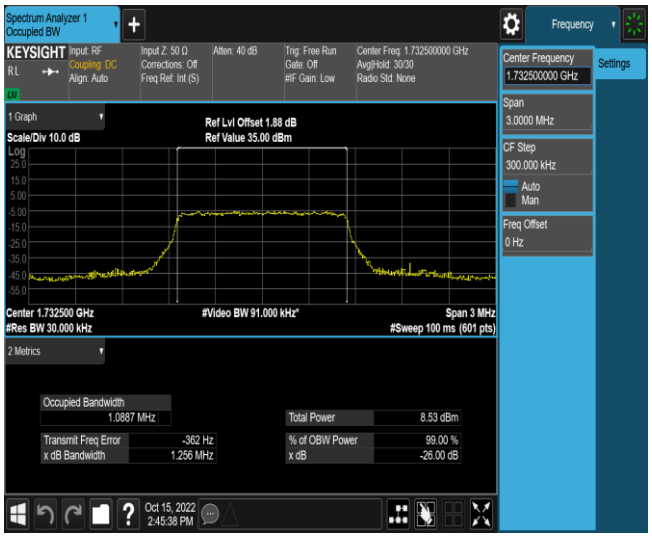
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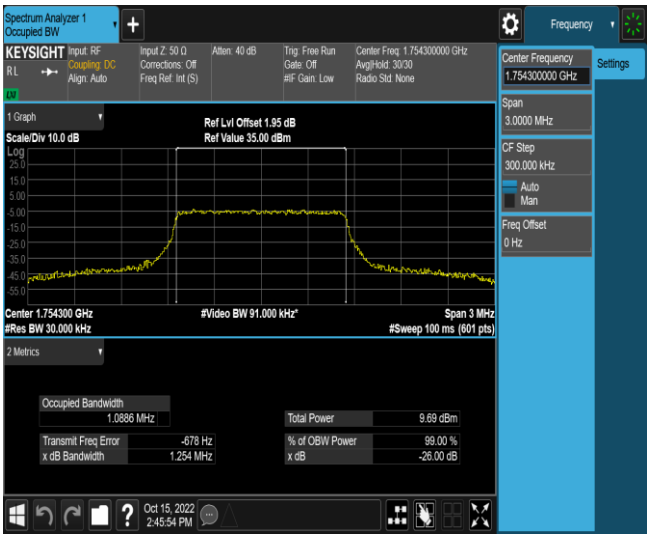
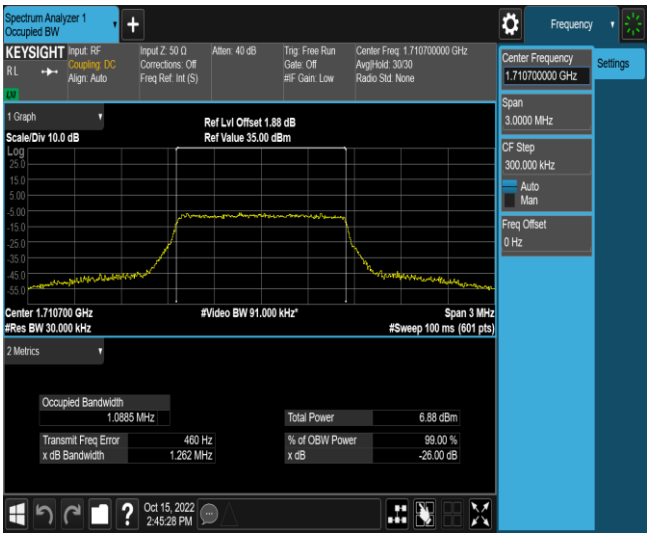
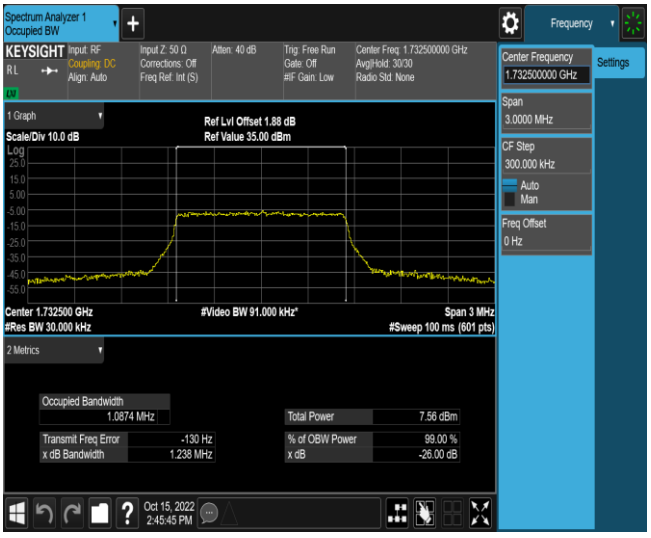


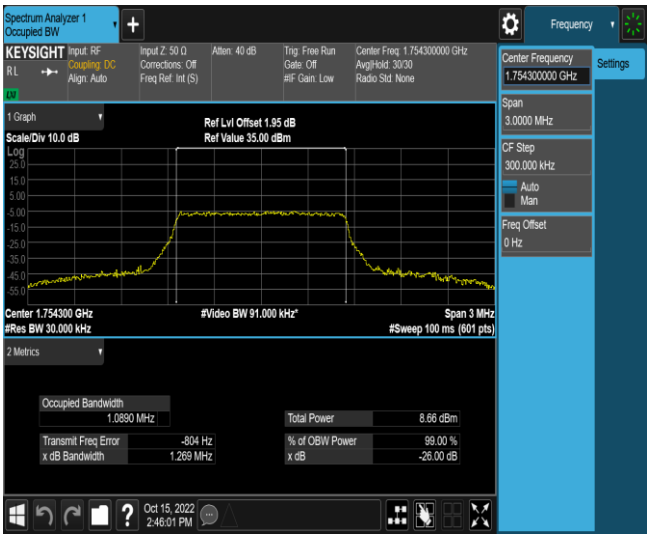
Band4-1.4MHz-16QAM-19957-6RB#0



Band4-1.4MHz-16QAM-20175-6RB#0



Band4-1.4MHz-16QAM-20393-6RB#0



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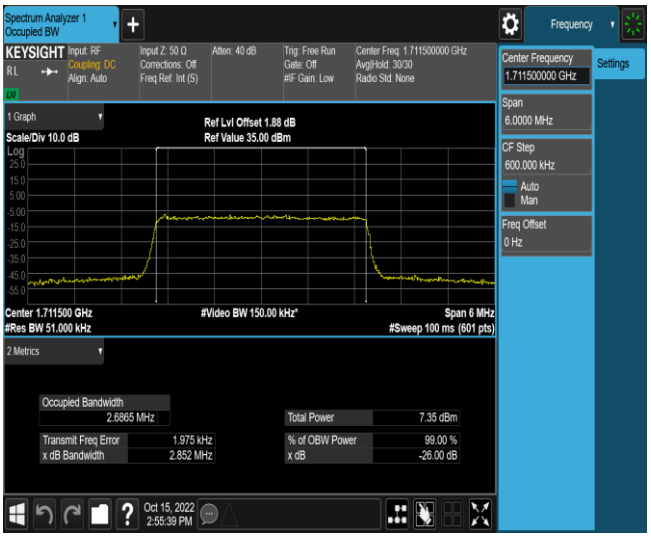

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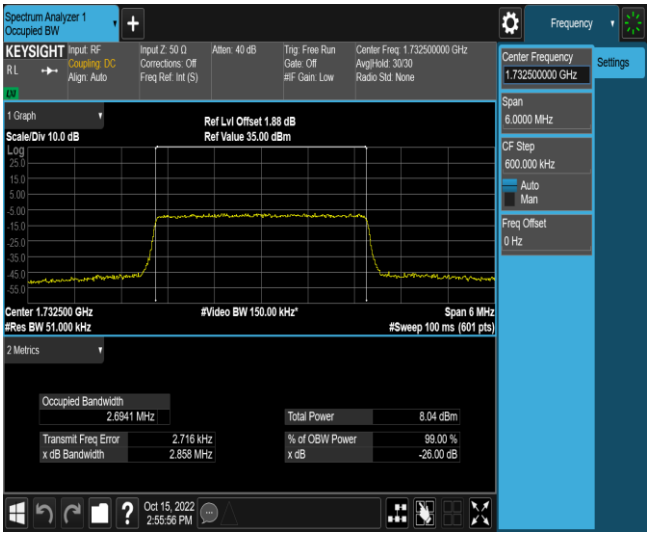

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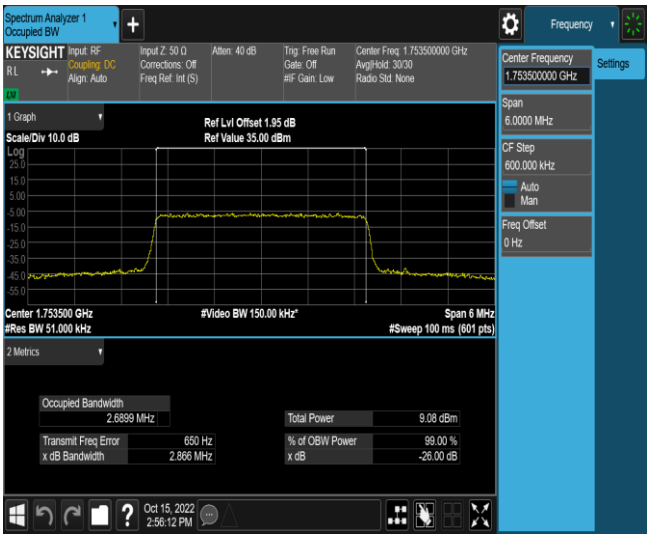

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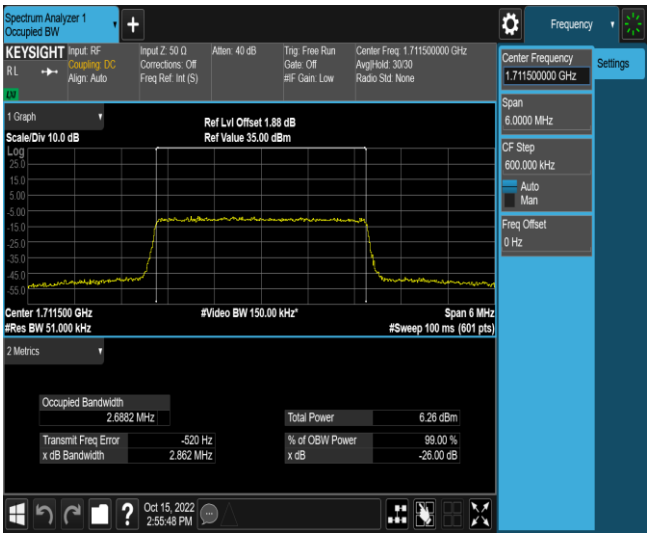

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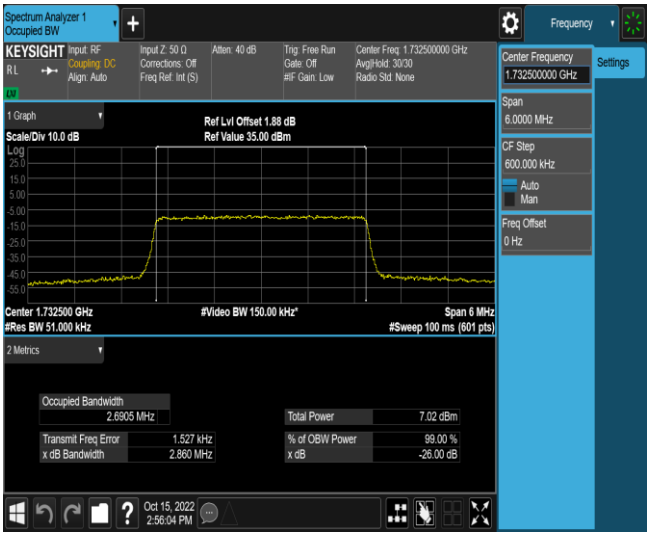

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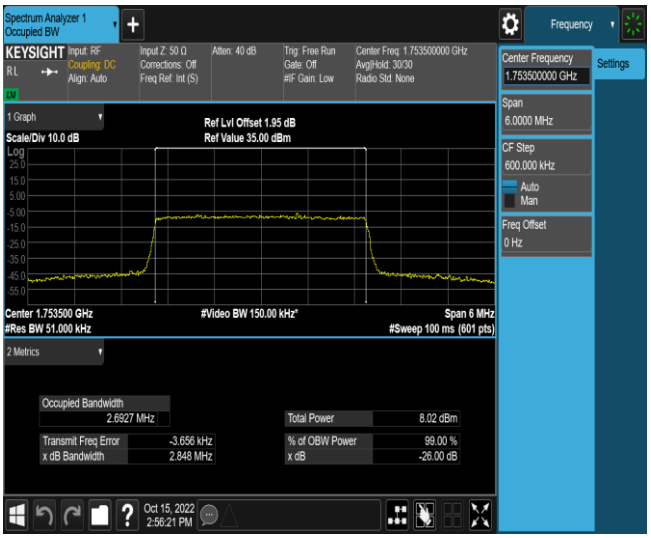
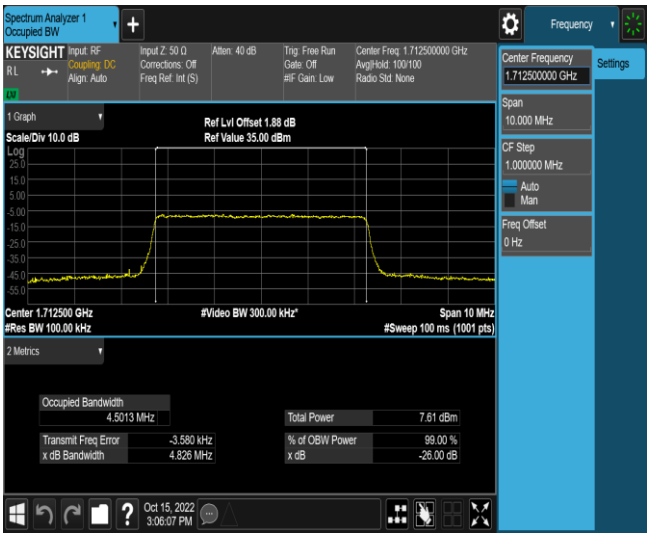


Band4-5MHz-QPSK-19975-25RB#0



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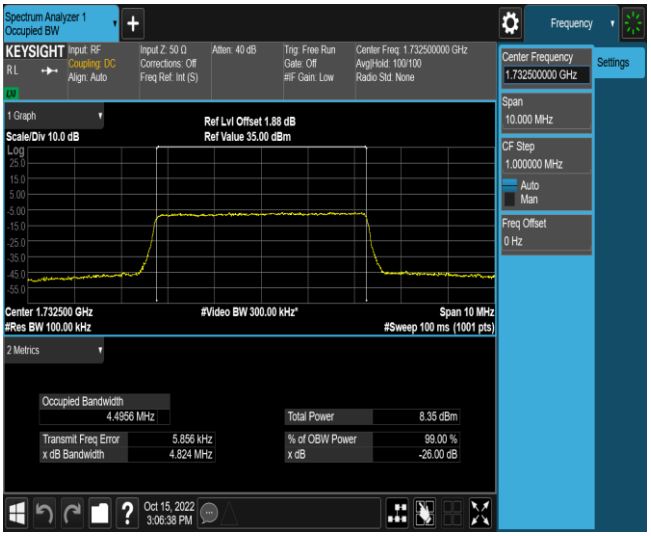

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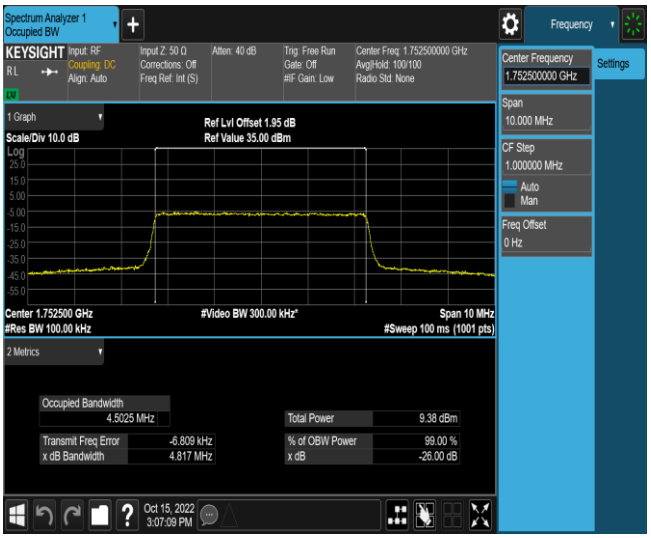
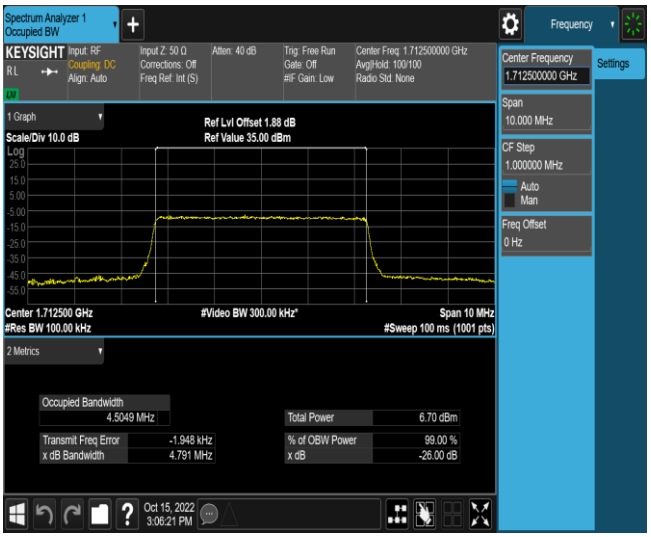


Band4-5MHz-16QAM-19975-25RB#0



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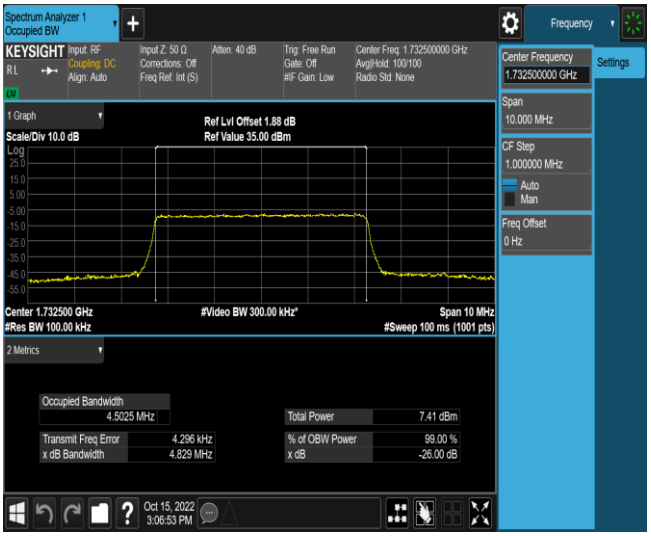
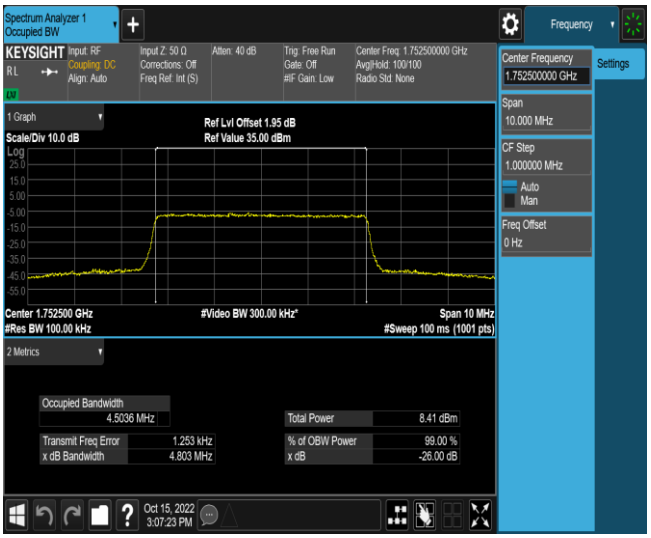
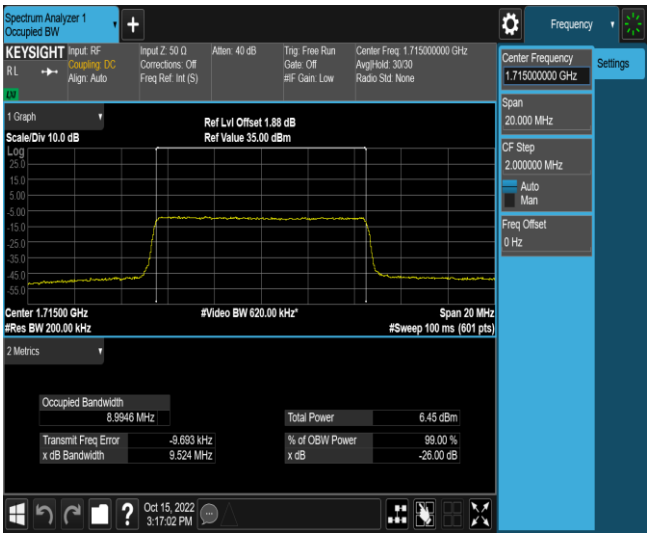


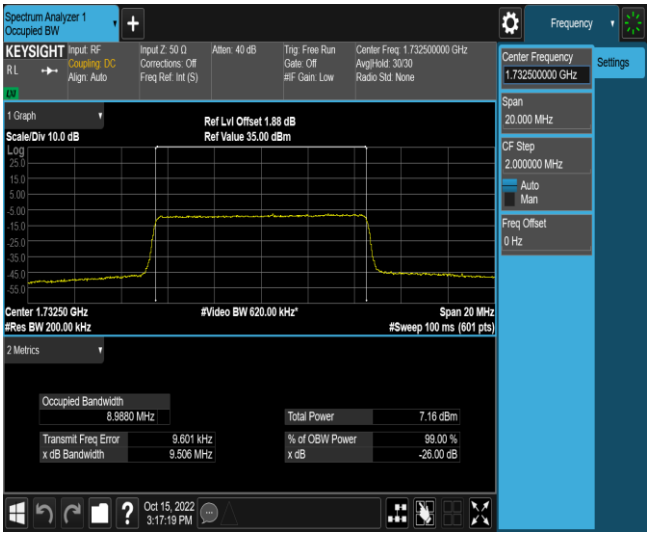
Band4-5MHz-16QAM-20375-25RB#0



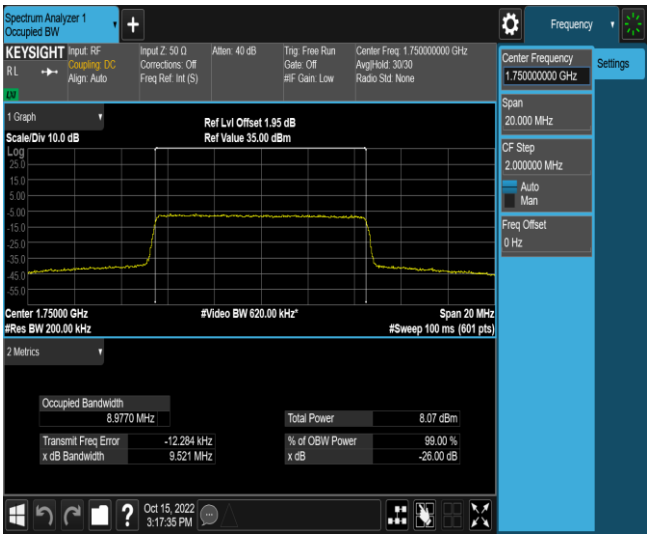
Band4-10MHz-QPSK-20000-50RB#0



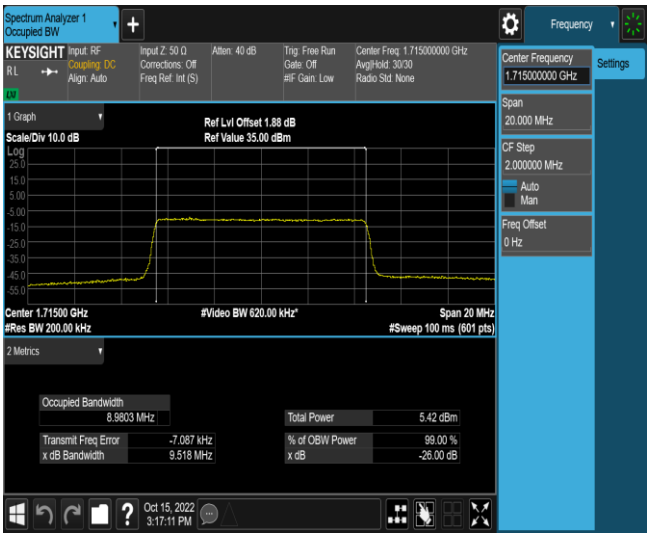
Band4-10MHz-QPSK-20175-50RB#0



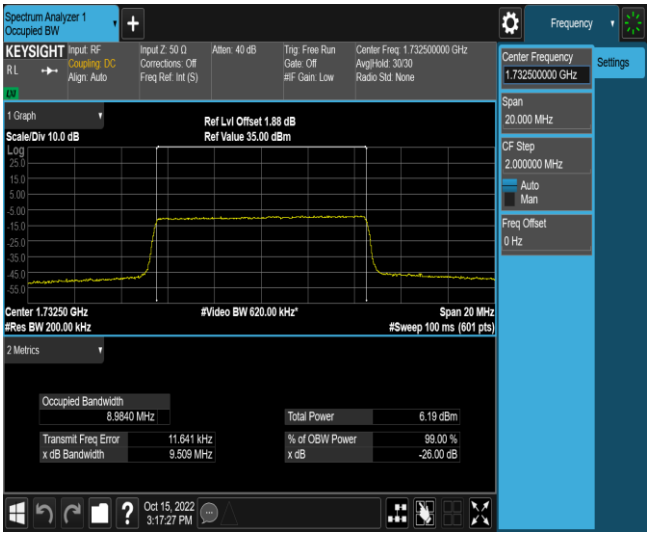
Band4-10MHz-QPSK-20350-50RB#0



Band4-10MHz-16QAM-20000-50RB#0



Band4-10MHz-16QAM-20175-50RB#0



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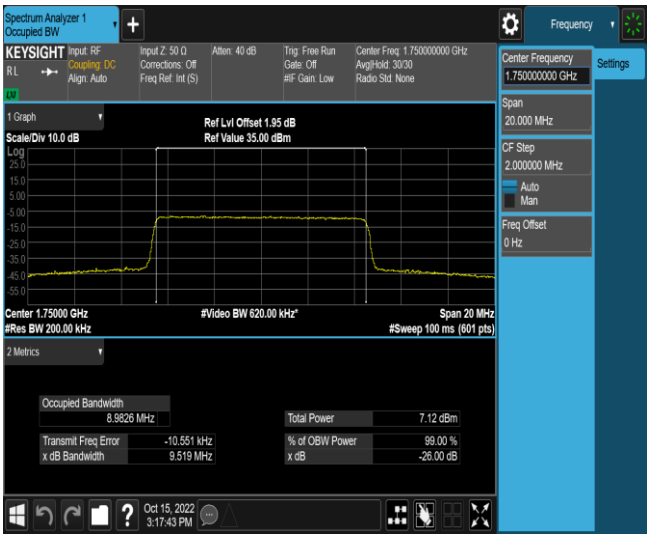
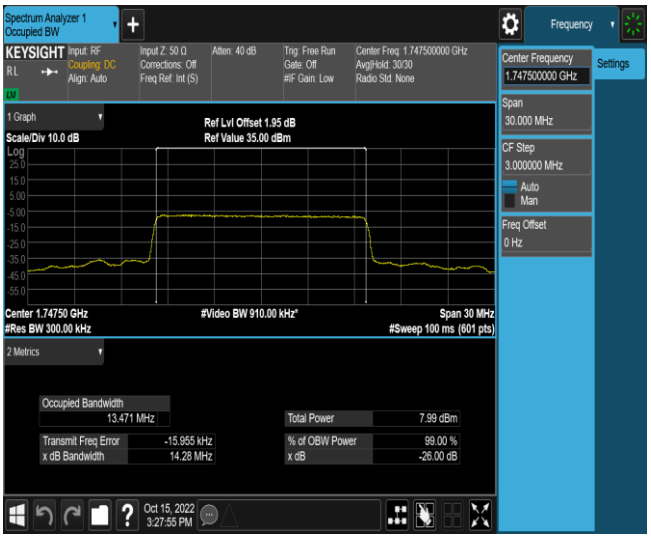


Band4-15MHz-QPSK-20025-75RB#0

Band4-15MHz-QPSK-20175-75RB#0

Band4-15MHz-QPSK-20325-75RB#0



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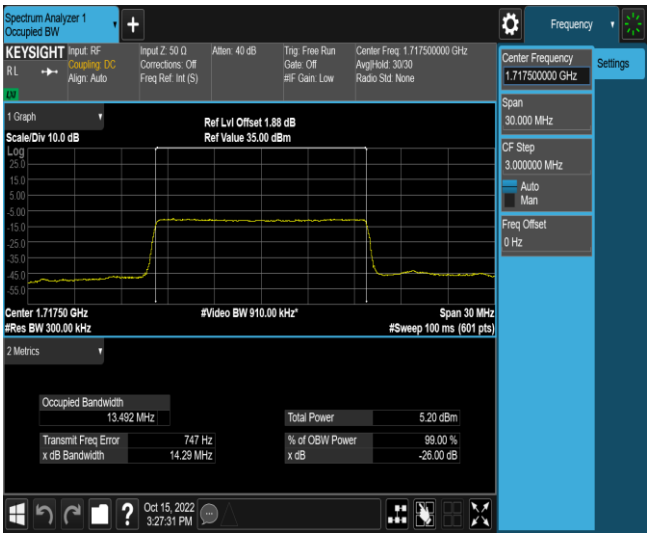

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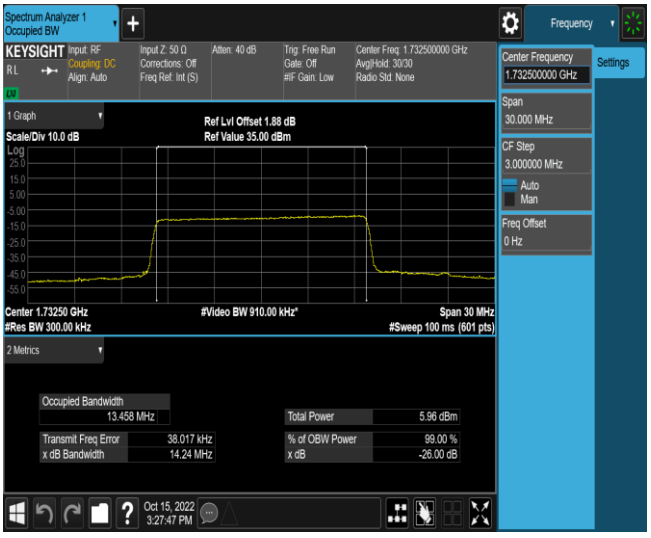
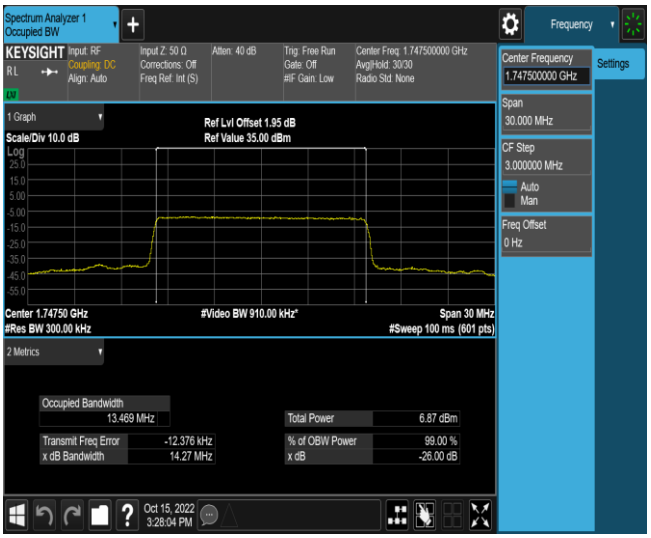
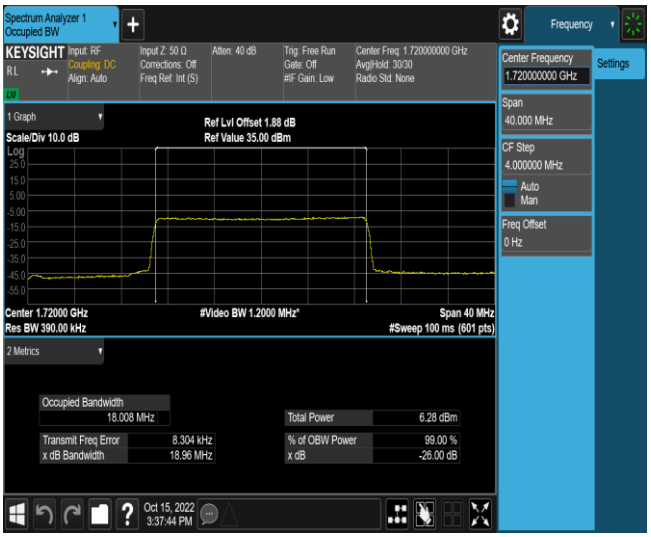


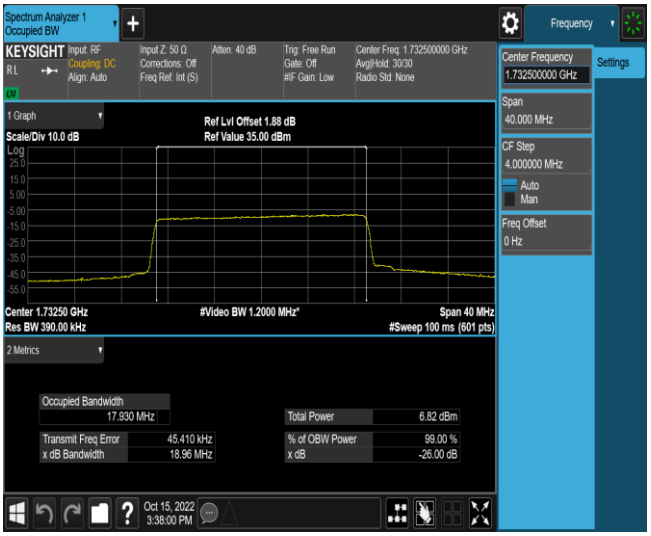
Band4-15MHz-16QAM-20325-75RB#0



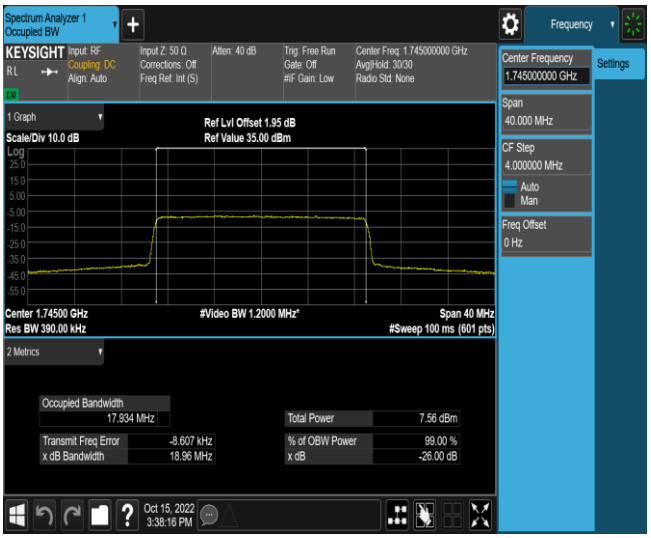
Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20175-100RB#0



Band4-20MHz-QPSK-20300-100RB#0



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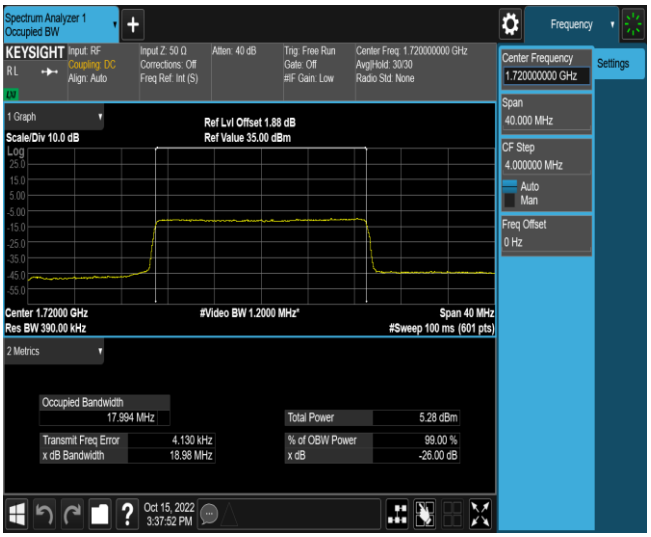

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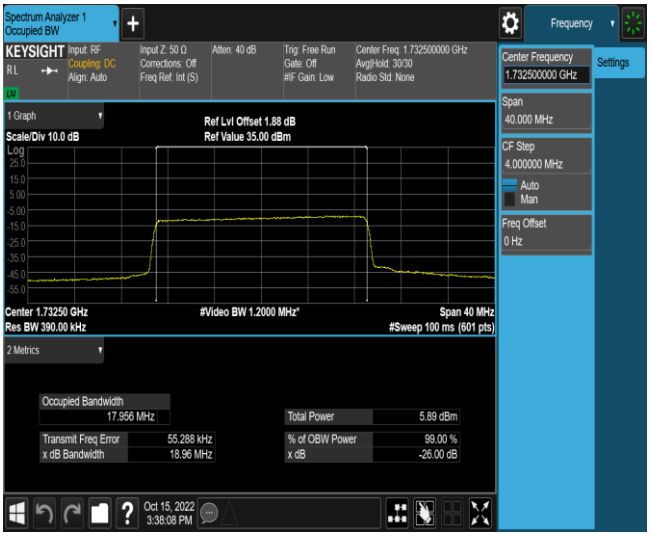
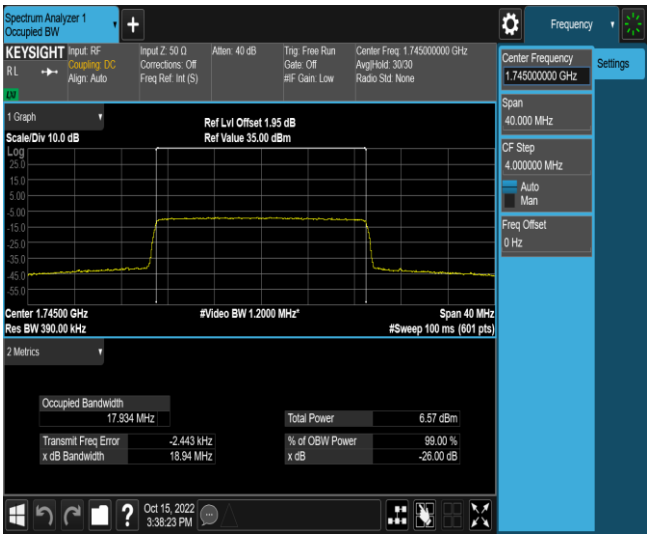


Band4-20MHz-16QAM-20300-100RB#0


Spectrum Analyzer 1
Occupied BW
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
Atten: 40 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 1.745000000 GHz
Avg|Hold: 30/30
Radio Std: None
Center Frequency
1.745000000 GHz
Settings
Span
40.000 MHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 Graph
Ref Lvl Offset 1.95 dB
Ref Value 35.00 dBm
Scale/Div 10.0 dB
Log
25.0
15.0
5.00
-5.00
-15.0
-25.0
-35.0
-45.0
-55.0
Center 1.74500 GHz
Res BW 390.00 kHz
#Video BW 1.2000 MHz*
Span 40 MHz
#Sweep 100 ms (601 pts)
2 Metrics
Occupied Bandwidth
17.934 MHz
Total Power
6.57 dBm
Transmit Freq Error
-2.443 kHz
x dB Bandwidth
18.94 MHz
% of OBW Power
99.00 %
x dB
-26.00 dB
Oct 15, 2022
3:38:23 PM

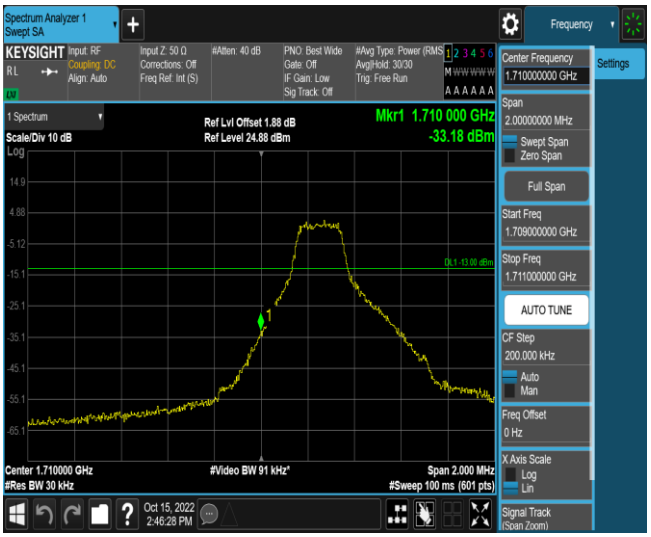
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-33.18	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	-49.67	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-40.73	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	-47.78	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-31.79	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-37.89	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-34.91	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	-49.73	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-42.34	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	-48.95	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-33.99	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-40.32	PASS
Band4	3MHz	QPSK	19965	1RB#0	-28.02	PASS
Band4	3MHz	QPSK	19965	1RB#14	-58.78	PASS
Band4	3MHz	QPSK	19965	15RB#0	-43.89	PASS
Band4	3MHz	QPSK	20385	1RB#0	-58.62	PASS
Band4	3MHz	QPSK	20385	1RB#14	-30.81	PASS
Band4	3MHz	QPSK	20385	15RB#0	-41.14	PASS
Band4	3MHz	16QAM	19965	1RB#0	-31.85	PASS
Band4	3MHz	16QAM	19965	1RB#14	-58.68	PASS
Band4	3MHz	16QAM	19965	15RB#0	-44.93	PASS
Band4	3MHz	16QAM	20385	1RB#0	-58.30	PASS
Band4	3MHz	16QAM	20385	1RB#14	-31.36	PASS
Band4	3MHz	16QAM	20385	15RB#0	-41.11	PASS
Band4	5MHz	QPSK	19975	1RB#0	-29.67	PASS
Band4	5MHz	QPSK	19975	1RB#24	-50.28	PASS
Band4	5MHz	QPSK	19975	25RB#0	-40.31	PASS
Band4	5MHz	QPSK	20375	1RB#0	-56.85	PASS
Band4	5MHz	QPSK	20375	1RB#24	-28.27	PASS
Band4	5MHz	QPSK	20375	25RB#0	-39.52	PASS
Band4	5MHz	16QAM	19975	1RB#0	-29.54	PASS
Band4	5MHz	16QAM	19975	1RB#24	-51.14	PASS
Band4	5MHz	16QAM	19975	25RB#0	-41.93	PASS
Band4	5MHz	16QAM	20375	1RB#0	-50.04	PASS
Band4	5MHz	16QAM	20375	1RB#24	-28.41	PASS

Band4	5MHz	16QAM	20375	25RB#0	-39.46	PASS
Band4	10MHz	QPSK	20000	1RB#0	-32.62	PASS
Band4	10MHz	QPSK	20000	1RB#49	-55.14	PASS
Band4	10MHz	QPSK	20000	50RB#0	-43.94	PASS
Band4	10MHz	QPSK	20350	1RB#0	-55.45	PASS
Band4	10MHz	QPSK	20350	1RB#49	-30.36	PASS
Band4	10MHz	QPSK	20350	50RB#0	-39.39	PASS
Band4	10MHz	16QAM	20000	1RB#0	-31.24	PASS
Band4	10MHz	16QAM	20000	1RB#49	-53.53	PASS
Band4	10MHz	16QAM	20000	50RB#0	-46.18	PASS
Band4	10MHz	16QAM	20350	1RB#0	-55.64	PASS
Band4	10MHz	16QAM	20350	1RB#49	-30.60	PASS
Band4	10MHz	16QAM	20350	50RB#0	-41.71	PASS
Band4	15MHz	QPSK	20025	1RB#0	-32.88	PASS
Band4	15MHz	QPSK	20025	1RB#74	-51.66	PASS
Band4	15MHz	QPSK	20025	75RB#0	-44.92	PASS
Band4	15MHz	QPSK	20325	1RB#0	-52.19	PASS
Band4	15MHz	QPSK	20325	1RB#74	-31.65	PASS
Band4	15MHz	QPSK	20325	75RB#0	-37.55	PASS
Band4	15MHz	16QAM	20025	1RB#0	-32.95	PASS
Band4	15MHz	16QAM	20025	1RB#74	-50.73	PASS
Band4	15MHz	16QAM	20025	75RB#0	-45.78	PASS
Band4	15MHz	16QAM	20325	1RB#0	-52.68	PASS
Band4	15MHz	16QAM	20325	1RB#74	-32.01	PASS
Band4	15MHz	16QAM	20325	75RB#0	-41.13	PASS
Band4	20MHz	QPSK	20050	1RB#0	-34.92	PASS
Band4	20MHz	QPSK	20050	1RB#99	-53.65	PASS
Band4	20MHz	QPSK	20050	100RB#0	-43.32	PASS
Band4	20MHz	QPSK	20300	1RB#0	-52.63	PASS
Band4	20MHz	QPSK	20300	1RB#99	-32.23	PASS
Band4	20MHz	QPSK	20300	100RB#0	-38.61	PASS
Band4	20MHz	16QAM	20050	1RB#0	-34.91	PASS
Band4	20MHz	16QAM	20050	1RB#99	-53.74	PASS
Band4	20MHz	16QAM	20050	100RB#0	-43.67	PASS
Band4	20MHz	16QAM	20300	1RB#0	-52.68	PASS
Band4	20MHz	16QAM	20300	1RB#99	-33.23	PASS
Band4	20MHz	16QAM	20300	100RB#0	-41.16	PASS

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0

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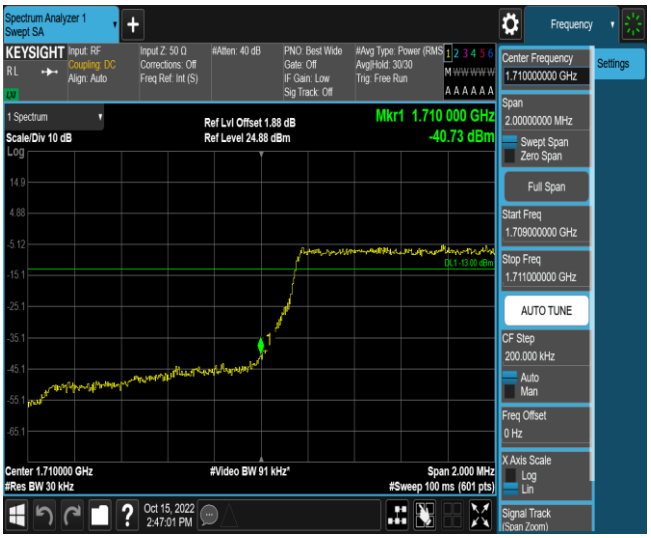

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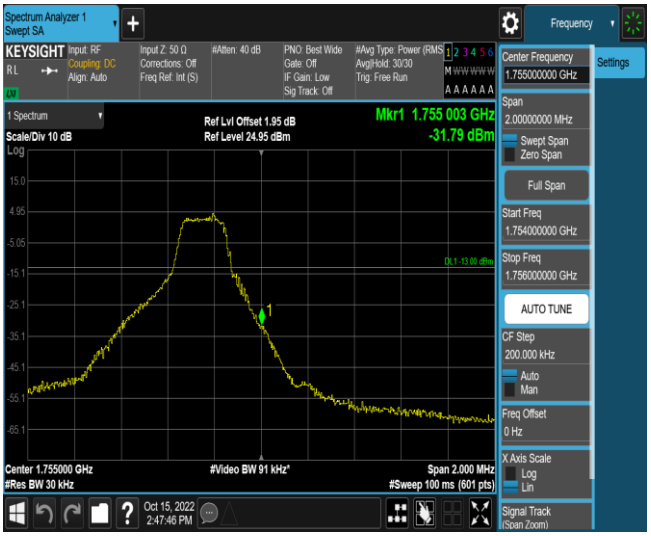

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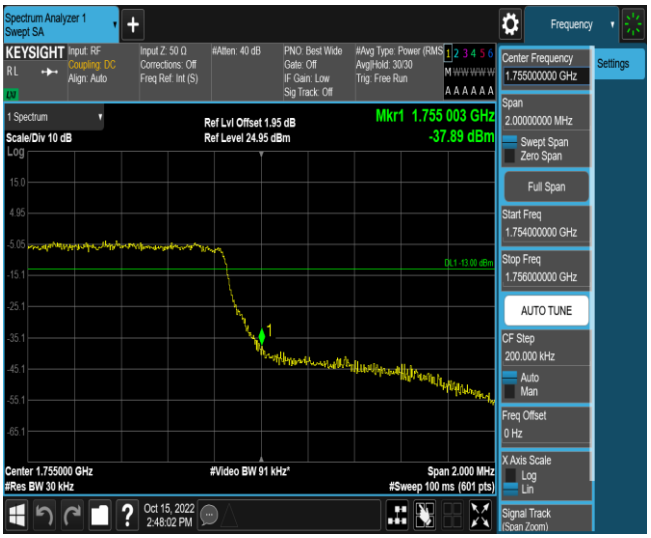

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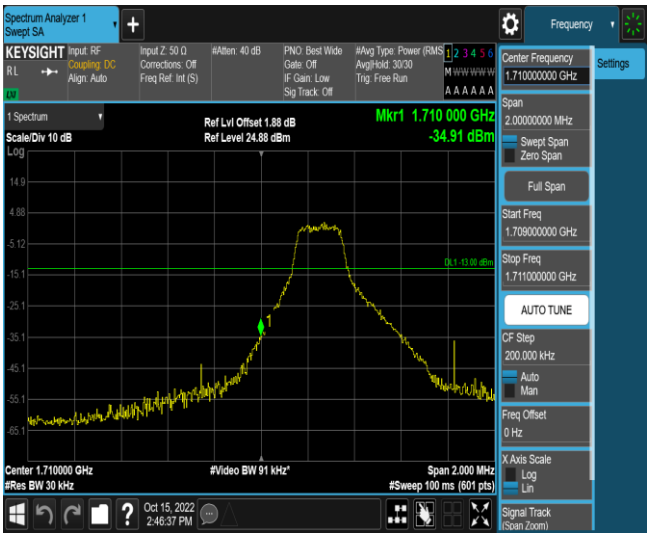

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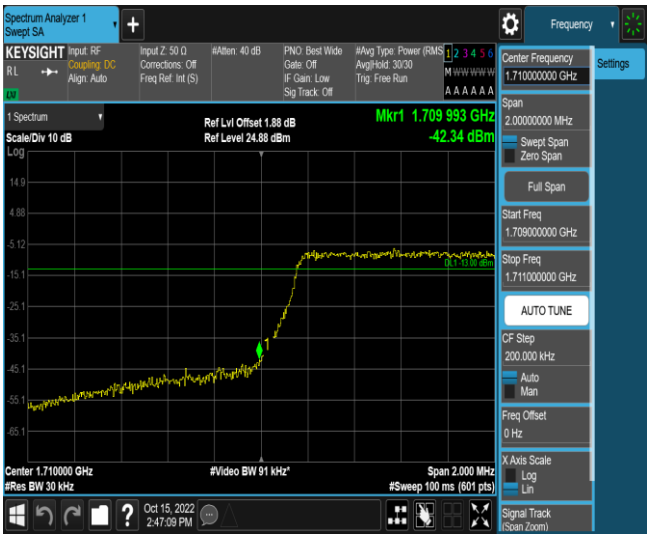

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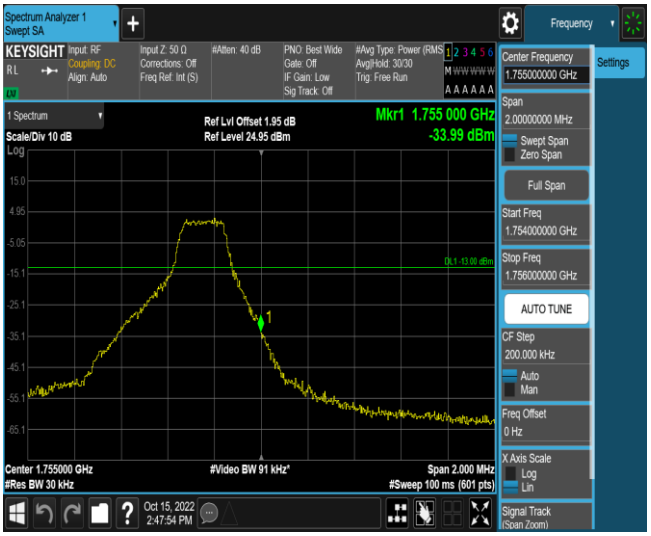

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