Appendix for N12

Product Name: 5G Indoor CPE
Model No: TITAN 5000

Appendix A: Average Power Output Data

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power（dBm）	Power Class	Verdict
N12	15	5	DFT-QPSK	L	Outer_Full	23.58	PC3	PASS
N12	15	5	DFT-QPSK	L	Inner_Full	23.65	PC3	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	23.64	PC3	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Right	23.53	PC3	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	22.62	PC3	PASS
N12	15	5	DFT-16QAM	L	Inner_Full	23.52	PC3	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Left	22.98	PC3	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Right	22.59	PC3	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	23.68	PC3	PASS
N12	15	5	DFT-QPSK	M	Inner_Full	23.59	PC3	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Left	23.53	PC3	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Right	23.62	PC3	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	22.47	PC3	PASS
N12	15	5	DFT-16QAM	M	Inner_Full	23.43	PC3	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Left	22.53	PC3	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Right	22.62	PC3	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	23.55	PC3	PASS
N12	15	5	DFT-QPSK	H	Inner_Full	23.54	PC3	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Left	23.43	PC3	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Right	23.37	PC3	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	22.69	PC3	PASS
N12	15	5	DFT-16QAM	H	Inner_Full	23.49	PC3	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Left	22.50	PC3	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Right	22.42	PC3	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	23.65	PC3	PASS
N12	15	10	DFT-QPSK	L	Inner_Full	23.56	PC3	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	23.49	PC3	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Right	23.40	PC3	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	22.80	PC3	PASS
N12	15	10	DFT-16QAM	L	Inner_Full	23.70	PC3	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Left	22.42	PC3	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Right	22.20	PC3	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	23.62	PC3	PASS
N12	15	10	DFT-QPSK	M	Inner_Full	23.57	PC3	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Left	23.60	PC3	PASS

N12	15	10	DFT-QPSK	M	Edge_1RB_Right	23.49	PC3	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	22.65	PC3	PASS
N12	15	10	DFT-16QAM	M	Inner_Full	23.59	PC3	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Left	22.85	PC3	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Right	22.77	PC3	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	23.52	PC3	PASS
N12	15	10	DFT-QPSK	H	Inner_Full	23.53	PC3	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Left	23.38	PC3	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Right	23.01	PC3	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	22.49	PC3	PASS
N12	15	10	DFT-16QAM	H	Inner_Full	23.56	PC3	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Left	22.85	PC3	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Right	22.55	PC3	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	23.78	PC3	PASS
N12	15	15	DFT-QPSK	L	Inner_Full	23.76	PC3	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	23.52	PC3	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Right	23.19	PC3	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	22.79	PC3	PASS
N12	15	15	DFT-16QAM	L	Inner_Full	23.62	PC3	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Left	22.95	PC3	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Right	22.65	PC3	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	23.80	PC3	PASS
N12	15	15	DFT-QPSK	M	Inner_Full	23.79	PC3	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Left	23.62	PC3	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Right	23.41	PC3	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	22.77	PC3	PASS
N12	15	15	DFT-16QAM	M	Inner_Full	23.66	PC3	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Left	23.03	PC3	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Right	22.69	PC3	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	23.83	PC3	PASS
N12	15	15	DFT-QPSK	H	Inner_Full	23.68	PC3	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Left	23.84	PC3	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Right	23.63	PC3	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	22.74	PC3	PASS
N12	15	15	DFT-16QAM	H	Inner_Full	23.69	PC3	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Left	23.24	PC3	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Right	22.95	PC3	PASS

Appendix B: Peak-to-Average Ratio for SA

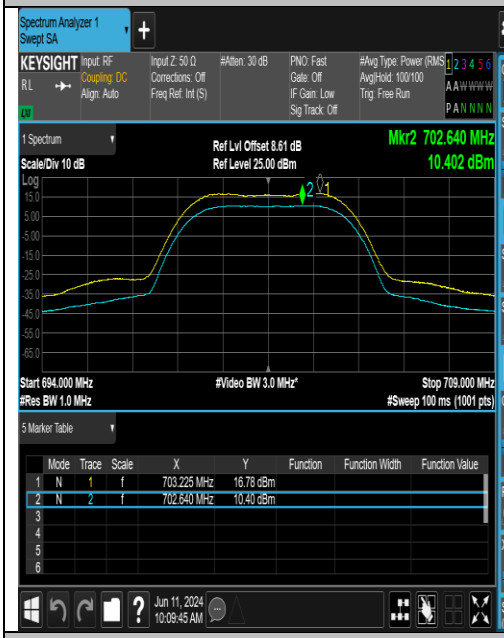
Peak-to-Average Ratio(PAPR)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N12	15	5	DFT-QPSK	L	Outer_Full	100%	0.00	6.38	≤13	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	100%	0.00	6.63	≤13	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	100%	0.00	6.06	≤13	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	100%	0.00	6.77	≤13	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	100%	0.00	6.23	≤13	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	100%	0.00	7.03	≤13	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	100%	0.00	7.14	≤13	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	100%	0.00	7.76	≤13	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	100%	0.00	7.05	≤13	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	100%	0.00	7.23	≤13	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	100%	0.00	7.11	≤13	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	100%	0.00	7.24	≤13	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	100%	0.00	7.56	≤13	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	100%	0.00	7.58	≤13	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	100%	0.00	7.41	≤13	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	100%	0.00	7.95	≤13	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	100%	0.00	7.46	≤13	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	100%	0.00	7.83	≤13	PASS

Test Graphs

NTNV_N12_PC3_15_5_L_TID2_#1



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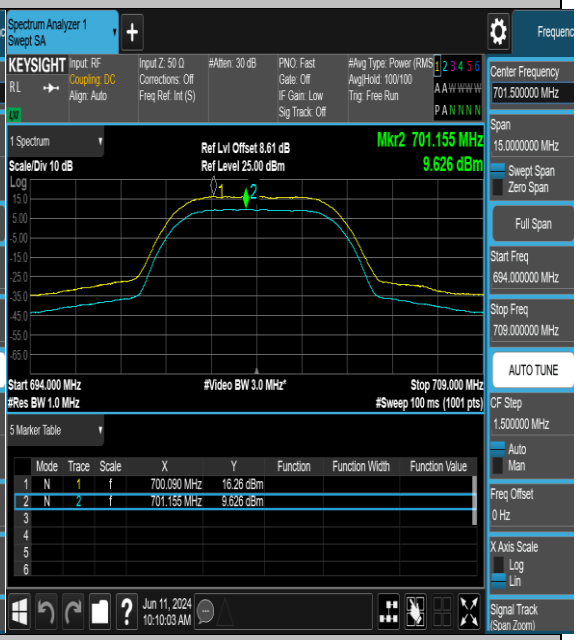

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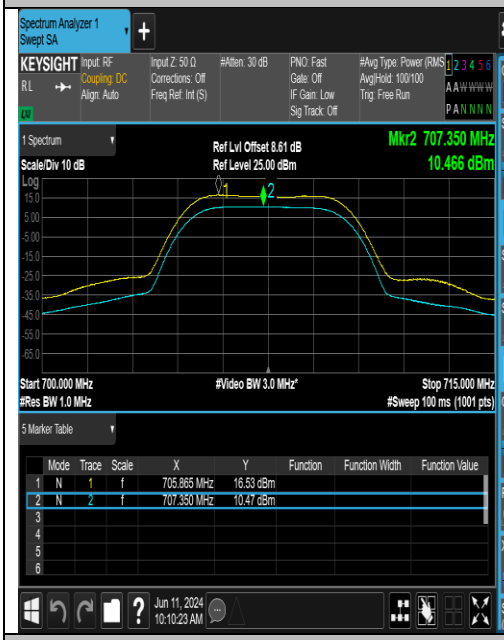

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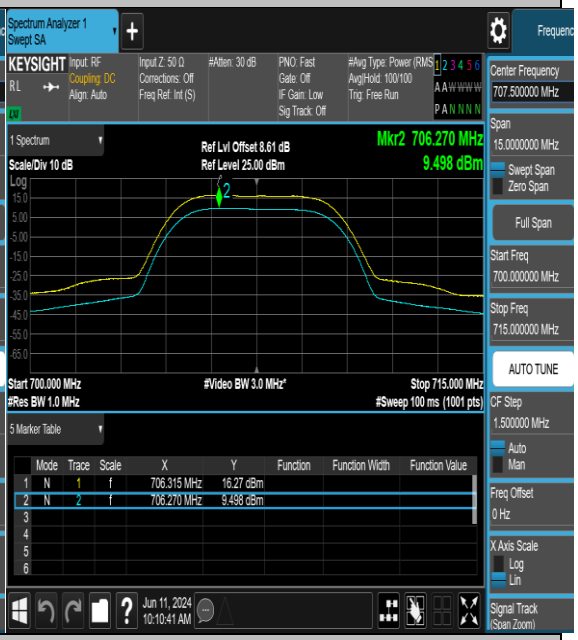

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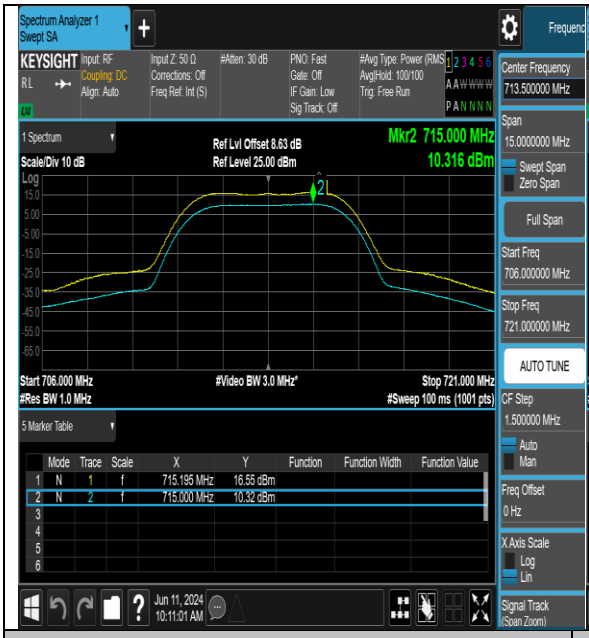

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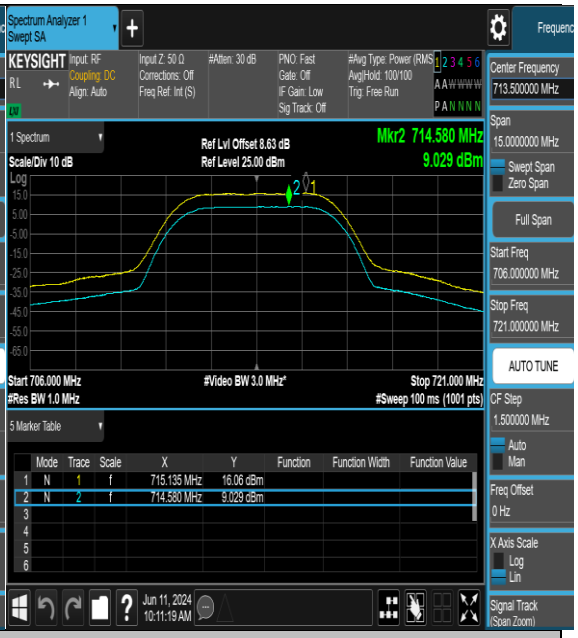

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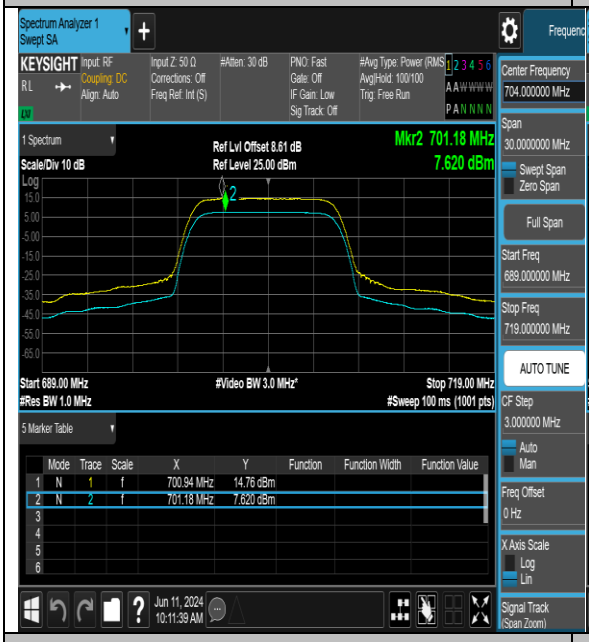

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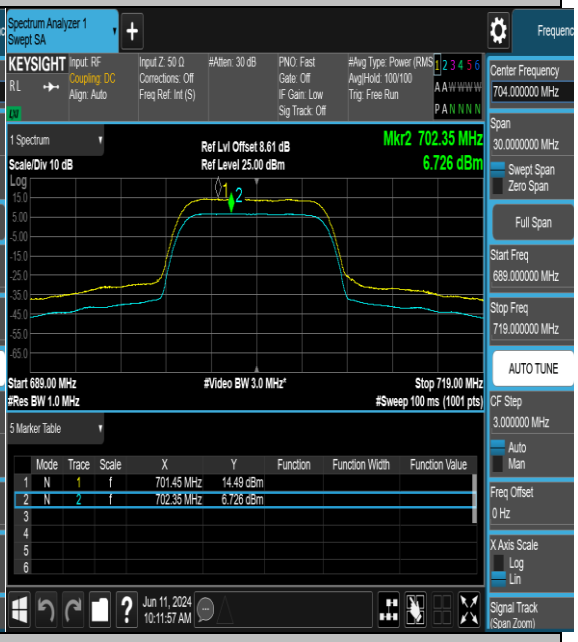

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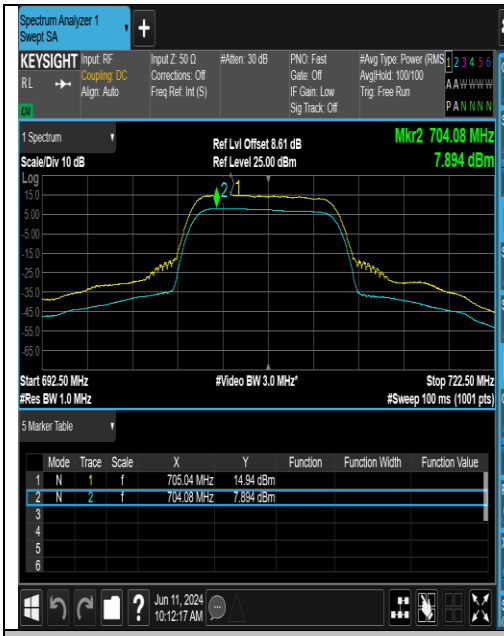

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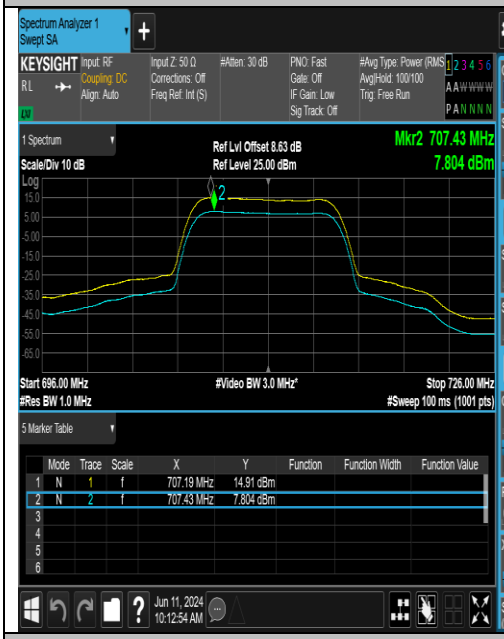

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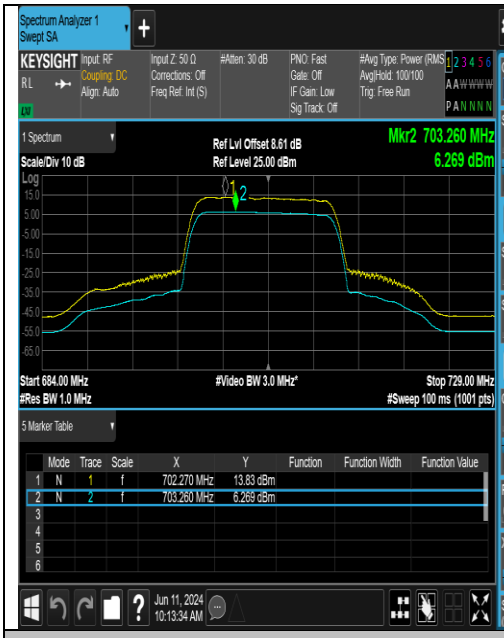

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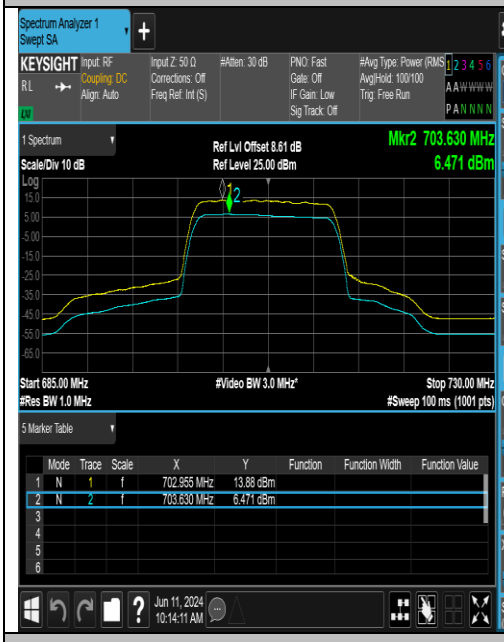
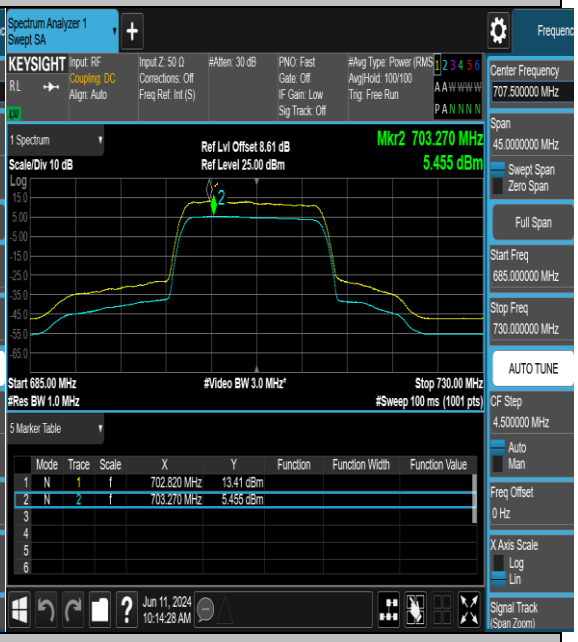


NTNV_N12_PC3_15_15_H_TID2_#1



NTNV_N12_PC3_15_15_H_TID3_#1

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
Center Frequency
708.500000 MHz
Span
45.0000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
686.000000 MHz
Stop Freq
731.000000 MHz
AUTO TUNE
CF Step
4.500000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 8.61 dB
Ref Level 25.00 dBm
Mkr2 704.315 MHz
6.506 dBm
Start 686.00 MHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Stop 731.00 MHz
#Sweep 100 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 704.720 MHz 13.96 dBm
2 N 2 f 704.315 MHz 6.506 dBm
Jun 11, 2024
10:14:49 AM
Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
Center Frequency
708.500000 MHz
Span
45.0000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
686.000000 MHz
Stop Freq
731.000000 MHz
AUTO TUNE
CF Step
4.500000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 8.61 dB
Ref Level 25.00 dBm
Mkr2 704.540 MHz
5.461 dBm
Start 686.00 MHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Stop 731.00 MHz
#Sweep 100 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 703.460 MHz 13.29 dBm
2 N 2 f 704.540 MHz 5.461 dBm
Jun 11, 2024
10:15:06 AM

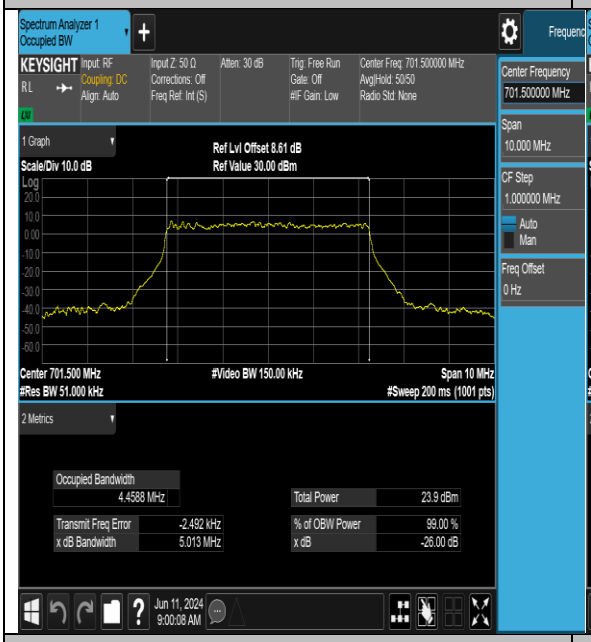
Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N12	15	5	DFT-QPSK	L	Outer_Full	4.4588	5.013	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	4.4628	4.905	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	4.4667	5.005	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	4.4653	4.767	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	4.4883	5.018	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	4.4801	5.118	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	8.9374	9.688	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	8.9108	9.561	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	8.8931	9.563	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	8.8966	9.627	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	8.9527	9.567	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	8.9494	9.758	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	13.366	14.20	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	13.394	14.38	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	13.386	14.32	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	13.325	14.18	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	13.382	14.31	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	13.438	14.42	PASS

Test Graphs

NTNV_N12_PC3_15_5_L_TID5_Ant1#1



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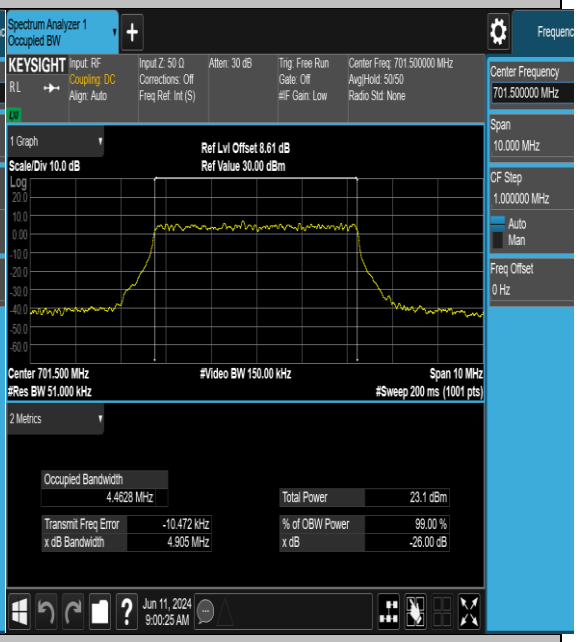

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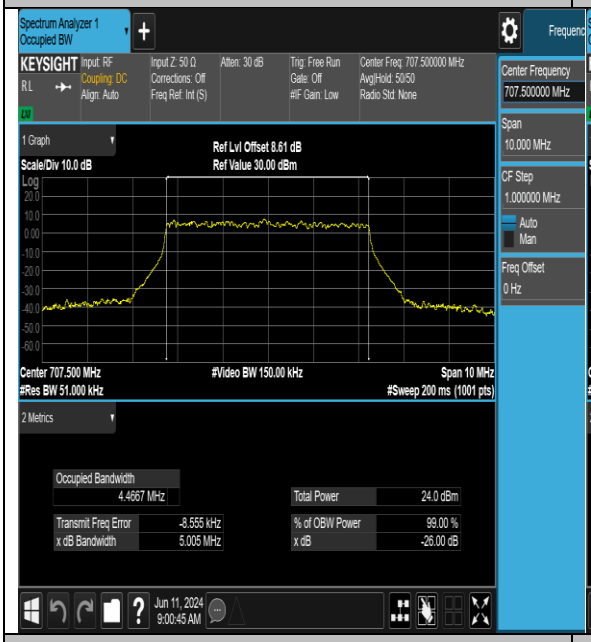

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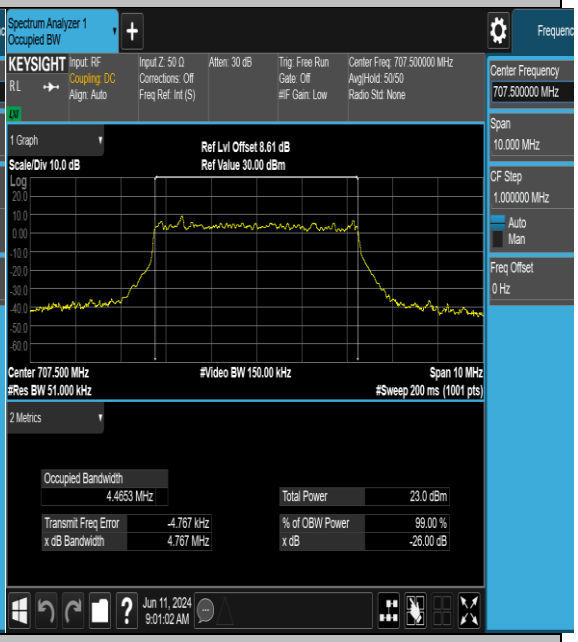

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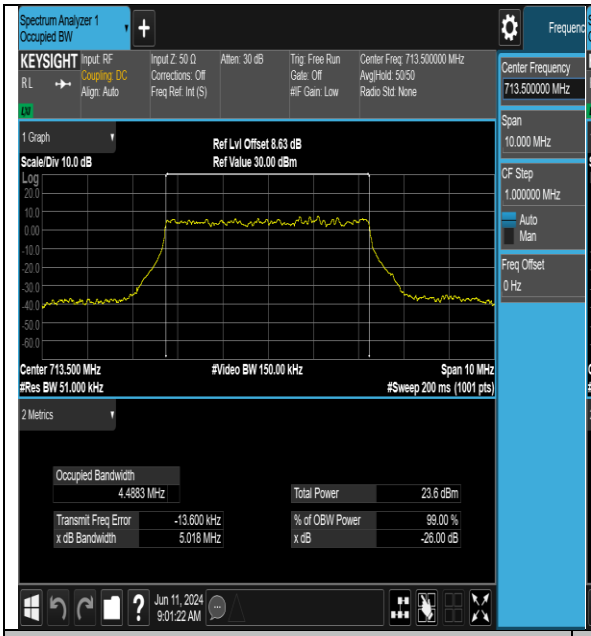

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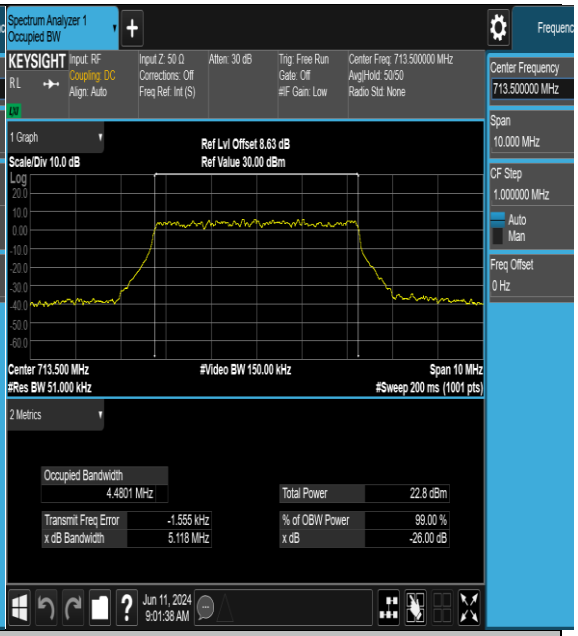

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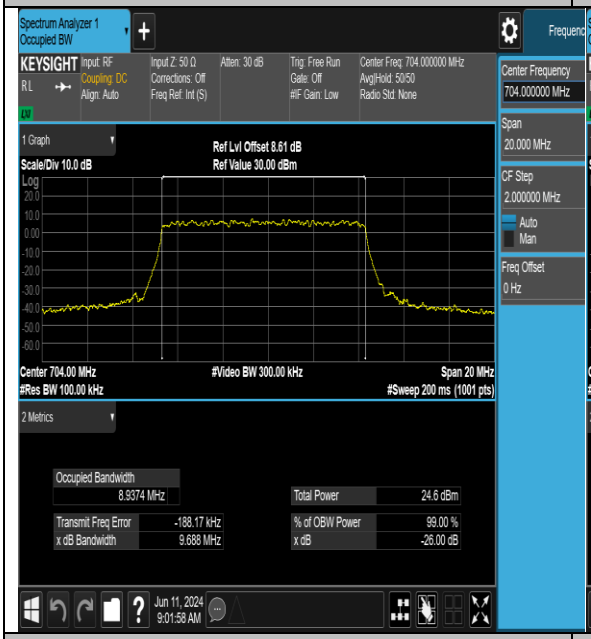

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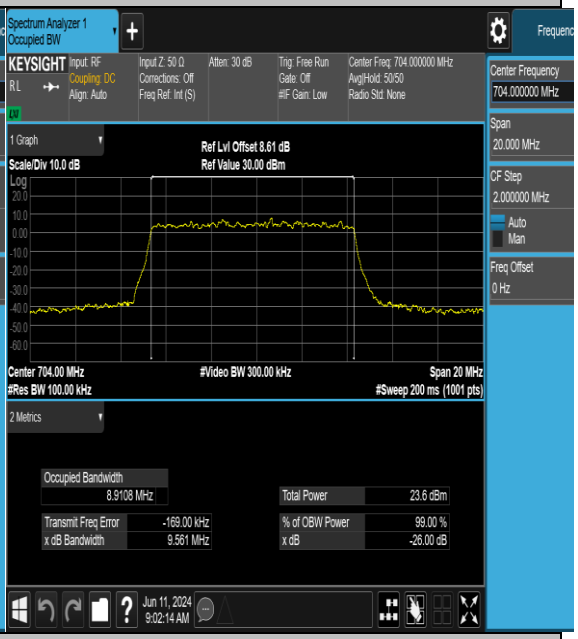

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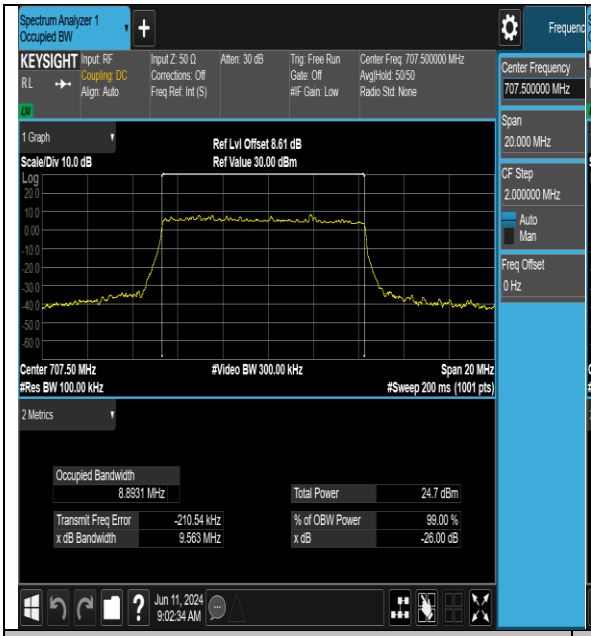
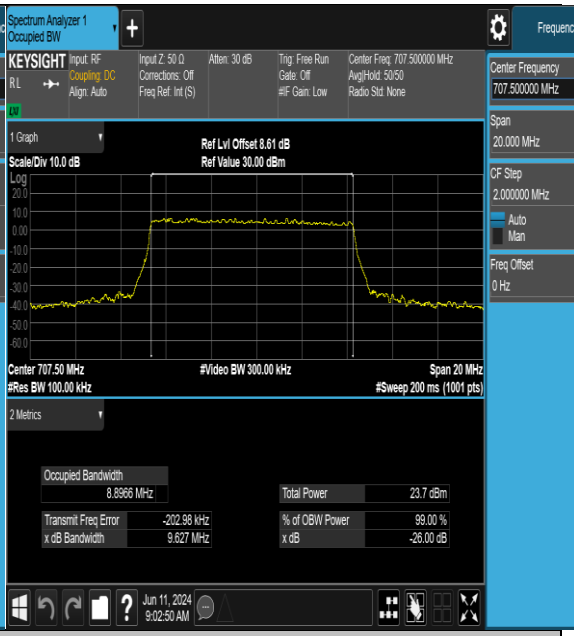


NTNV_N12_PC3_15_10_H_TID5_Ant1#1



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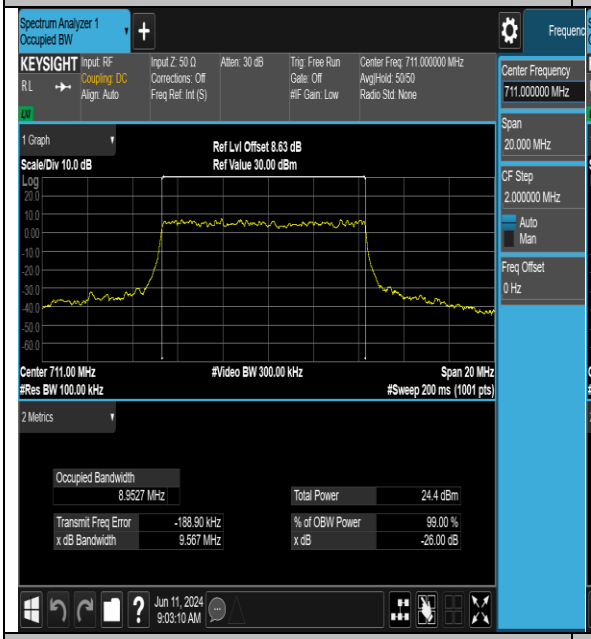

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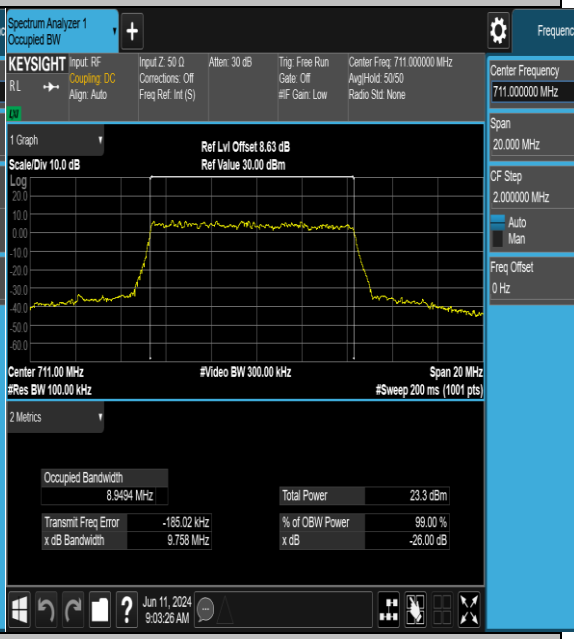

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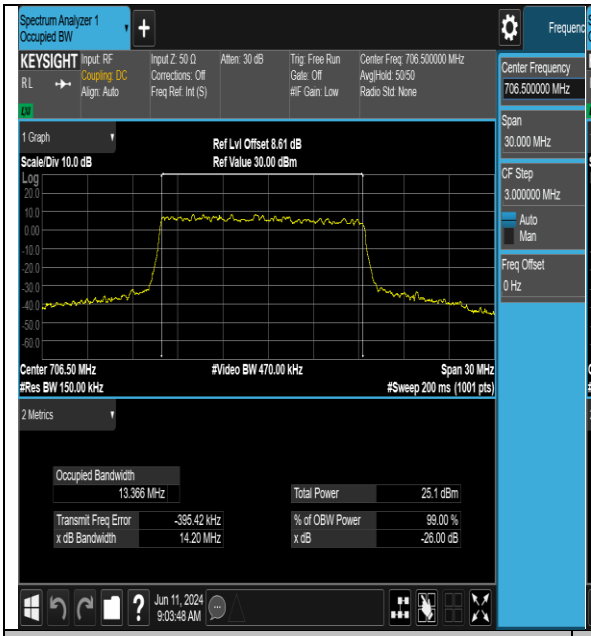

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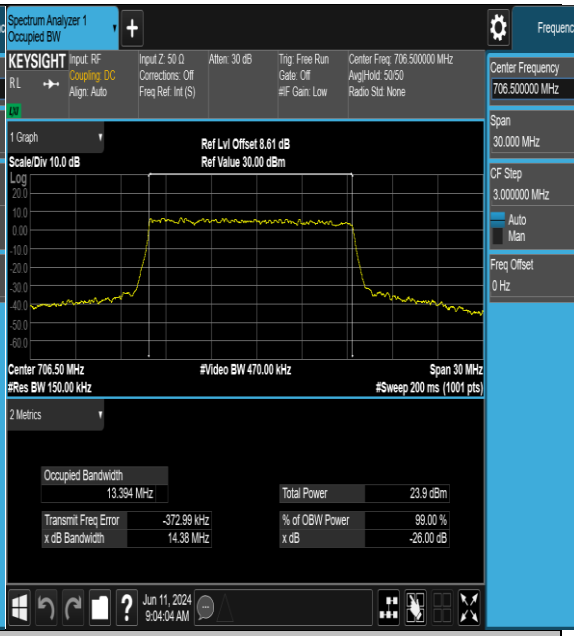

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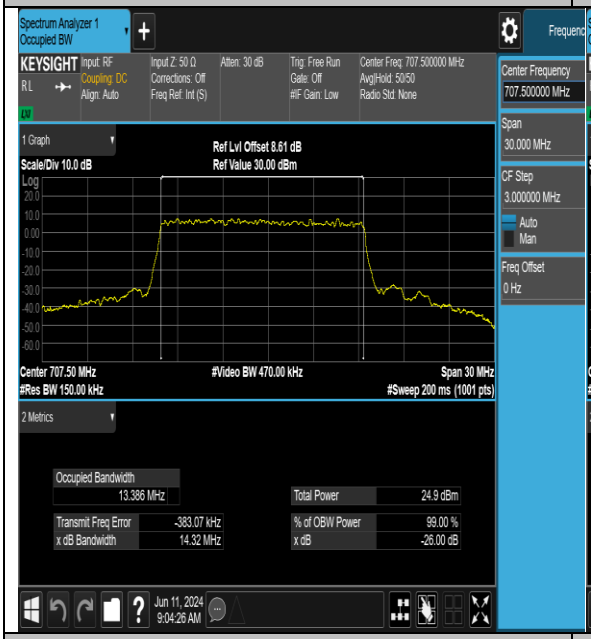

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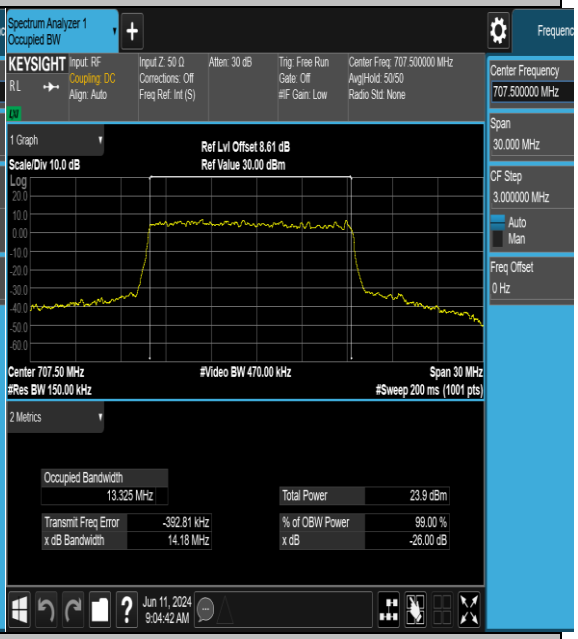

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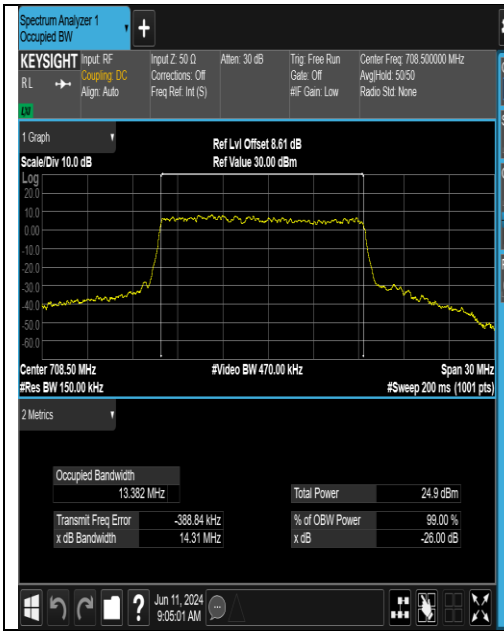
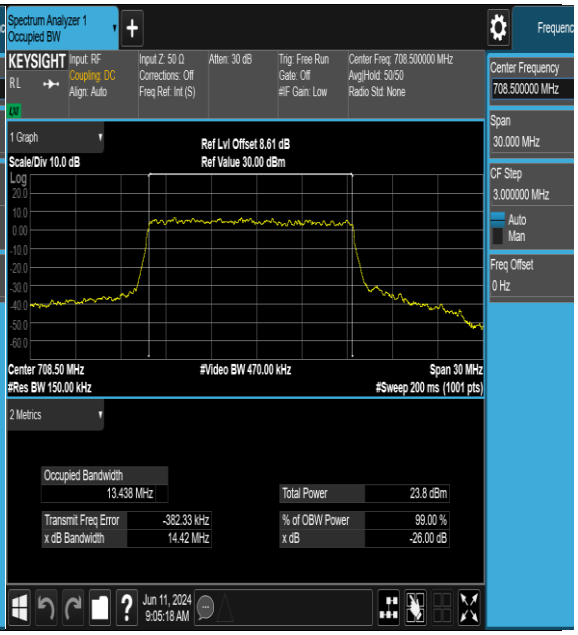

Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 708.500000 MHz
Avg|Hold: 50/50
Radio Std: None
Center Frequency
708.500000 MHz
Span
30.000 MHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 Graph
Ref Lvl Offset 8.61 dB
Ref Value 30.00 dBm
Scale/Div 10.0 dB
Log
Center 708.50 MHz
#Video BW 470.00 kHz
Span 30 MHz
#Res BW 150.00 kHz
#Sweep 200 ms (1001 pts)
2 Metrics
Occupied Bandwidth
13.382 MHz
Total Power
24.9 dBm
Transmit Freq Error
-388.84 kHz
% of OBW Power
99.00 %
x dB Bandwidth
14.31 MHz
x dB
-26.00 dB
Jun 11, 2024
9:05:01 AM


Spectrum Analyzer 1
Occupied BW
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 708.500000 MHz
Avg|Hold: 50/50
Radio Std: None
Center Frequency
708.500000 MHz
Span
30.000 MHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 Graph
Ref Lvl Offset 8.61 dB
Ref Value 30.00 dBm
Scale/Div 10.0 dB
Log
Center 708.50 MHz
#Video BW 470.00 kHz
Span 30 MHz
#Res BW 150.00 kHz
#Sweep 200 ms (1001 pts)
2 Metrics
Occupied Bandwidth
13.438 MHz
Total Power
23.8 dBm
Transmit Freq Error
-382.33 kHz
% of OBW Power
99.00 %
x dB Bandwidth
14.42 MHz
x dB
-26.00 dB
Jun 11, 2024
9:05:18 AM

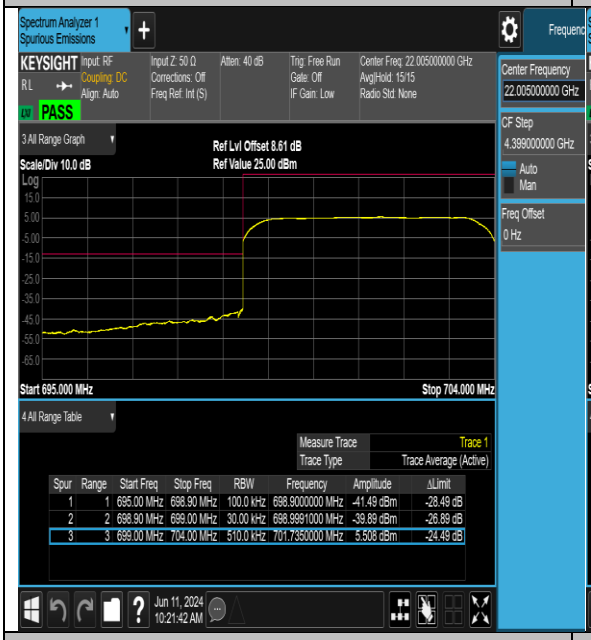
Appendix D: Band Edge for SA

Test Result

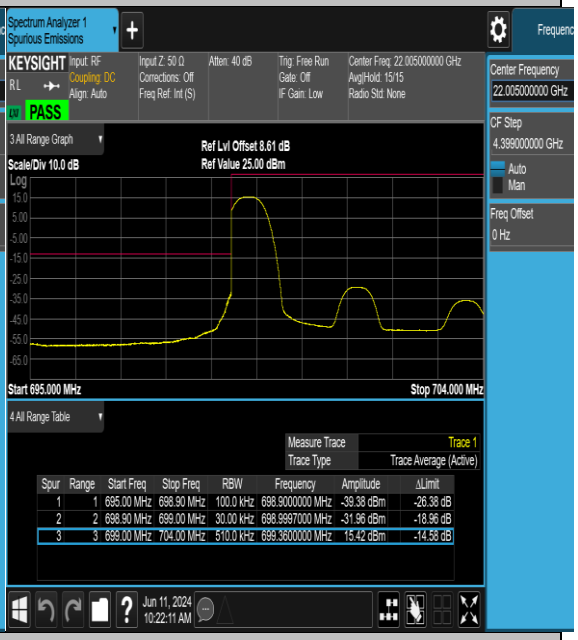
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Verdict
N12	15	5	DFT-QPSK	L	Outer_Full	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Right	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Right	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Right	PASS

Test Graphs

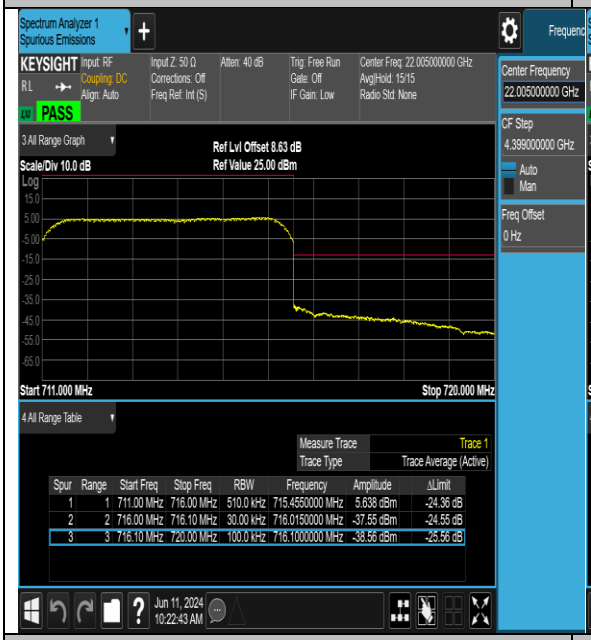
NTNV_N12_PC3_15_5_L_TID9_#1



NTNV_N12_PC3_15_5_L_TID7_#1



NTNV_N12_PC3_15_5_H_TID9_#1



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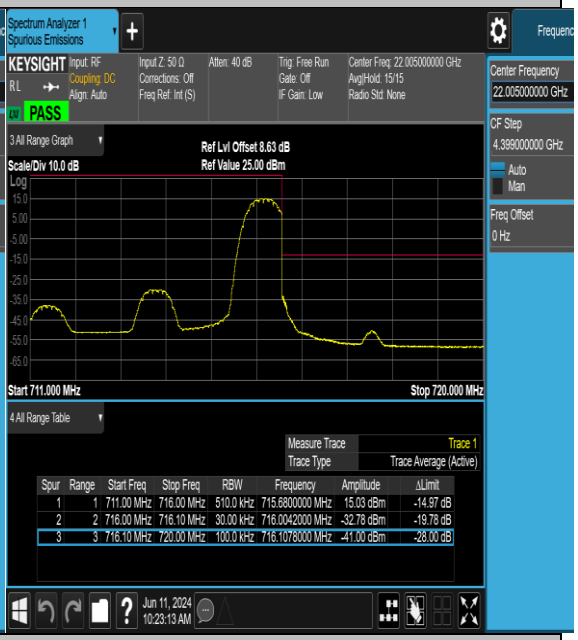
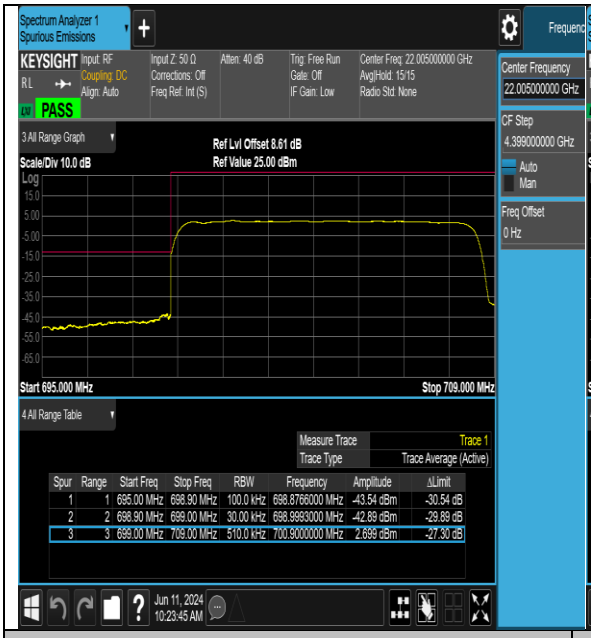
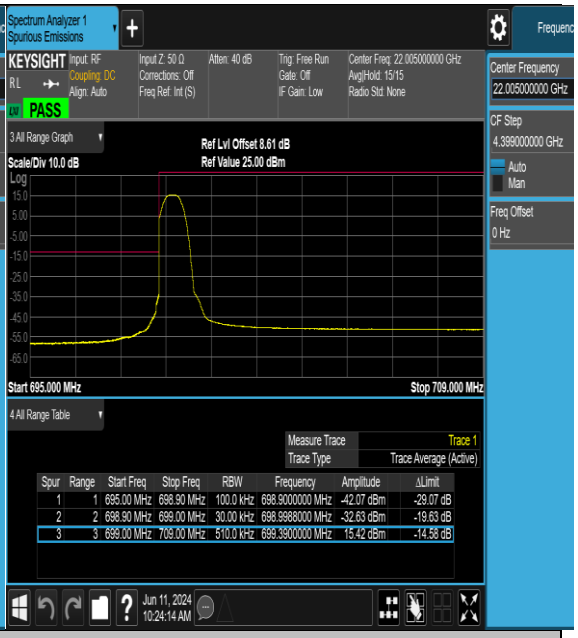


NTNV_N12_PC3_15_10_L_TID9_#1

NTNV_N12_PC3_15_10_L_TID7_#1



NTNV_N12_PC3_15_10_H_TID9_#1



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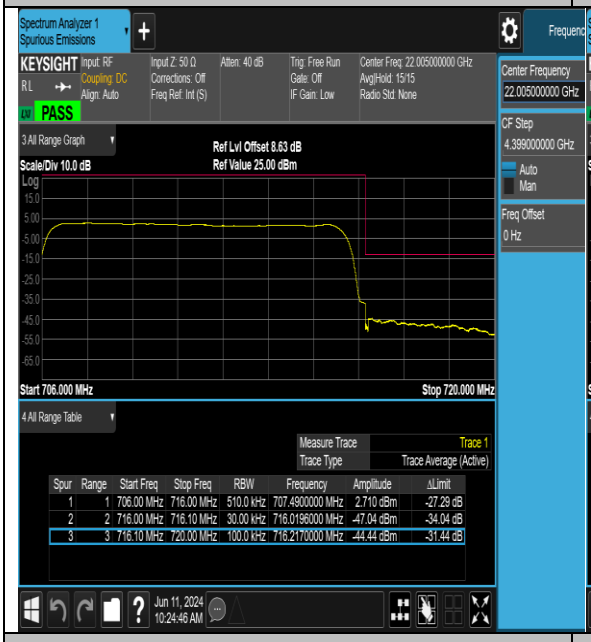

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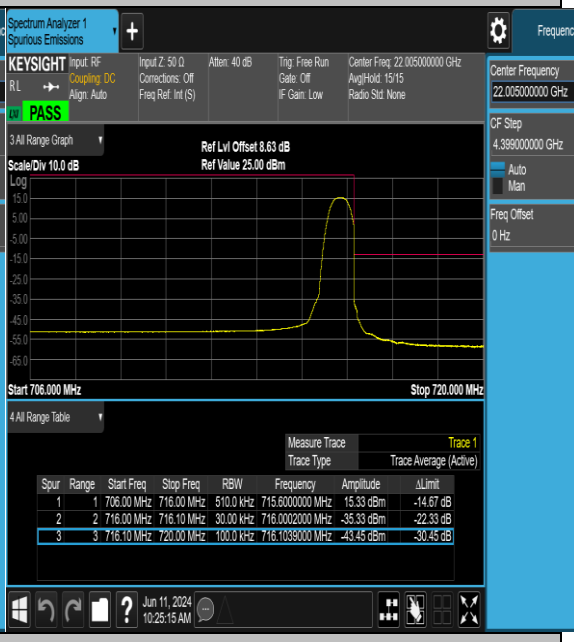
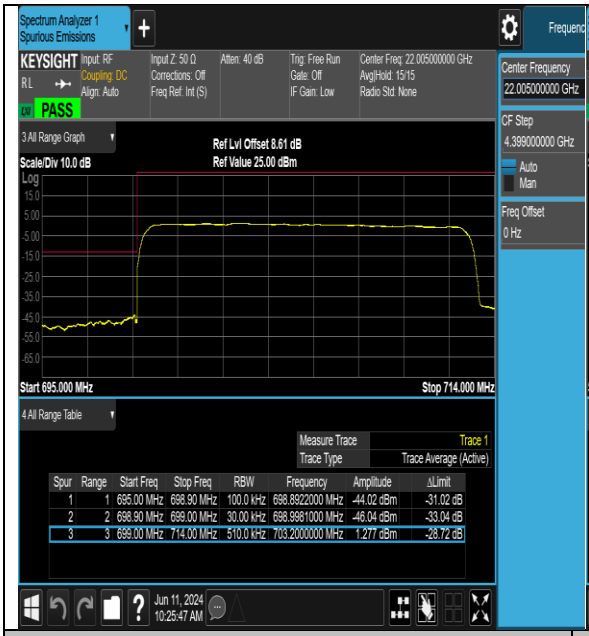


NTNV_N12_PC3_15_15_L_TID7_#1



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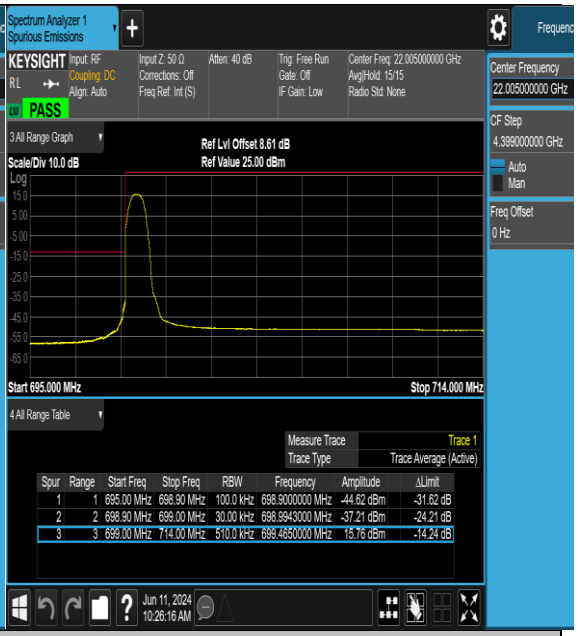

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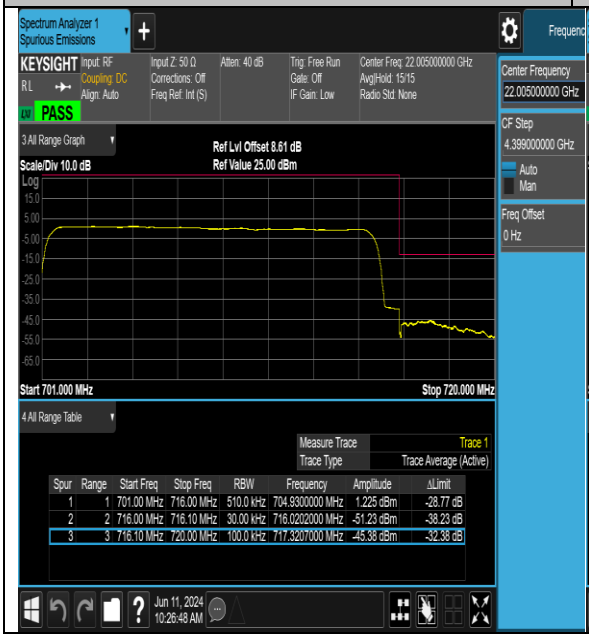
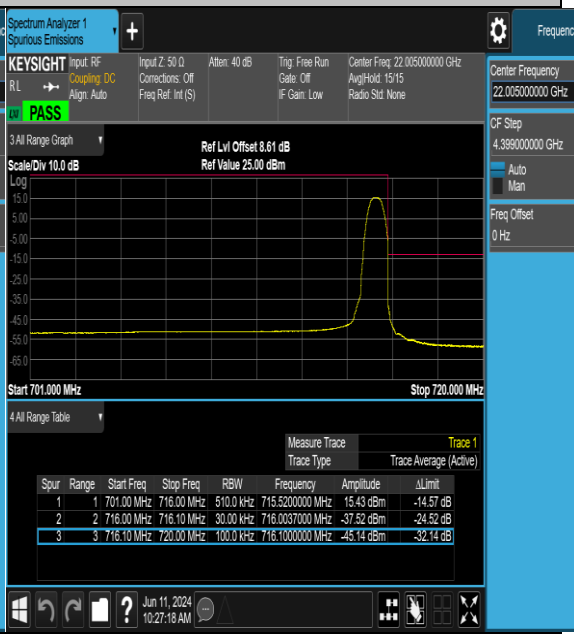




Appendix E: Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N12	15	5	DFT-QPSK	L	Outer_Full	0.009	0.15	-62.78	-33	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	0.15	30	-72.06	-23	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	30	1000	-49.04	-13	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	1000	3000	-36.52	-13	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	3000	12000	-44.28	-13	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	12000	20000	-45.54	-13	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-63.32	-33	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-71.01	-23	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	30	1000	-51.82	-13	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-36.59	-13	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-44.16	-13	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-45.59	-13	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Right	0.009	0.15	-61.86	-33	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Right	0.15	30	-71.63	-23	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Right	30	1000	-52.04	-13	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Right	1000	3000	-36.45	-13	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Right	3000	12000	-44.17	-13	PASS
N12	15	5	DFT-QPSK	L	Edge_1RB_Right	12000	20000	-45.49	-13	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	0.009	0.15	-62.51	-33	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	0.15	30	-73.24	-23	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	30	1000	-48.57	-13	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	1000	3000	-36.56	-13	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	3000	12000	-44.13	-13	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	12000	20000	-45.58	-13	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Left	0.009	0.15	-62.24	-33	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Left	0.15	30	-70.59	-23	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Left	30	1000	-52.29	-13	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Left	1000	3000	-36.54	-13	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Left	3000	12000	-44.21	-13	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Right	0.009	0.15	-62.51	-33	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Right	0.15	30	-71.66	-23	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Right	30	1000	-52.03	-13	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Right	1000	3000	-36.53	-13	PASS
N12	15	5	DFT-16QAM	L	Edge_1RB_Right	3000	12000	-44.26	-13	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	0.009	0.15	-61.74	-33	PASS

N12	15	5	DFT-QPSK	M	Outer_Full	0.15	30	-73.94	-23	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	30	1000	-51.42	-13	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	1000	3000	-36.53	-13	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	3000	12000	-44.15	-13	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-61.94	-33	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-71.96	-23	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Left	30	1000	-52.28	-13	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-36.41	-13	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-44.22	-13	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Right	0.009	0.15	-62.44	-33	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Right	0.15	30	-72.72	-23	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Right	30	1000	-51.34	-13	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Right	1000	3000	-36.62	-13	PASS
N12	15	5	DFT-QPSK	M	Edge_1RB_Right	3000	12000	-43.95	-13	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	0.009	0.15	-63.53	-33	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	0.15	30	-73.23	-23	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	30	1000	-51.55	-13	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	1000	3000	-36.45	-13	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	3000	12000	-44.28	-13	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Left	0.009	0.15	-62.79	-33	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Left	0.15	30	-70.99	-23	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Left	30	1000	-52.04	-13	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Left	1000	3000	-36.52	-13	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Left	3000	12000	-44.00	-13	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Right	0.009	0.15	-62.29	-33	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Right	0.15	30	-71.82	-23	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Right	30	1000	-52.18	-13	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Right	1000	3000	-36.56	-13	PASS
N12	15	5	DFT-16QAM	M	Edge_1RB_Right	3000	12000	-43.97	-13	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	0.009	0.15	-63.29	-33	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	0.15	30	-71.68	-23	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	30	1000	-47.96	-13	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	1000	3000	-36.57	-13	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	3000	12000	-44.22	-13	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-62.24	-33	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-71.50	-23	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Left	30	1000	-51.40	-13	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-36.55	-13	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-44.14	-13	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Right	0.009	0.15	-61.73	-33	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Right	0.15	30	-71.78	-23	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Right	30	1000	-52.27	-13	PASS

N12	15	5	DFT-QPSK	H	Edge_1RB_Right	1000	3000	-36.43	-13	PASS
N12	15	5	DFT-QPSK	H	Edge_1RB_Right	3000	12000	-44.03	-13	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	0.009	0.15	-61.75	-33	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	0.15	30	-71.89	-23	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	30	1000	-48.59	-13	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	1000	3000	-36.56	-13	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	3000	12000	-44.23	-13	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Left	0.009	0.15	-61.96	-33	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Left	0.15	30	-71.14	-23	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Left	30	1000	-52.17	-13	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Left	1000	3000	-36.48	-13	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Left	3000	12000	-44.24	-13	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Right	0.009	0.15	-62.68	-33	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Right	0.15	30	-71.82	-23	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Right	30	1000	-51.73	-13	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Right	1000	3000	-36.46	-13	PASS
N12	15	5	DFT-16QAM	H	Edge_1RB_Right	3000	12000	-44.07	-13	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	0.009	0.15	-62.26	-33	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	0.15	30	-72.60	-23	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	30	1000	-48.14	-13	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	1000	3000	-36.52	-13	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	3000	12000	-44.20	-13	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-61.81	-33	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-71.08	-23	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	30	1000	-51.70	-13	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-36.42	-13	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-44.19	-13	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Right	0.009	0.15	-63.25	-33	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Right	0.15	30	-72.53	-23	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Right	30	1000	-51.95	-13	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Right	1000	3000	-36.58	-13	PASS
N12	15	10	DFT-QPSK	L	Edge_1RB_Right	3000	12000	-44.14	-13	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	0.009	0.15	-62.15	-33	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	0.15	30	-72.63	-23	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	30	1000	-48.31	-13	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	1000	3000	-36.59	-13	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	3000	12000	-44.12	-13	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Left	0.009	0.15	-62.18	-33	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Left	0.15	30	-70.70	-23	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Left	30	1000	-52.27	-13	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Left	1000	3000	-36.47	-13	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Left	3000	12000	-44.19	-13	PASS

N12	15	10	DFT-16QAM	L	Edge_1RB_Right	0.009	0.15	-62.50	-33	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Right	0.15	30	-73.45	-23	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Right	30	1000	-51.61	-13	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Right	1000	3000	-36.51	-13	PASS
N12	15	10	DFT-16QAM	L	Edge_1RB_Right	3000	12000	-44.11	-13	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	0.009	0.15	-62.39	-33	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	0.15	30	-70.80	-23	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	30	1000	-50.53	-13	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	1000	3000	-36.51	-13	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	3000	12000	-44.07	-13	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-61.48	-33	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-69.98	-23	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-51.53	-13	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-36.38	-13	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-44.30	-13	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Right	0.009	0.15	-61.84	-33	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Right	0.15	30	-72.16	-23	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Right	30	1000	-51.14	-13	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Right	1000	3000	-36.52	-13	PASS
N12	15	10	DFT-QPSK	M	Edge_1RB_Right	3000	12000	-44.19	-13	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	0.009	0.15	-63.17	-33	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	0.15	30	-71.38	-23	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	30	1000	-50.69	-13	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	1000	3000	-36.50	-13	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	3000	12000	-44.09	-13	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Left	0.009	0.15	-62.95	-33	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Left	0.15	30	-72.42	-23	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Left	30	1000	-52.33	-13	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Left	1000	3000	-36.42	-13	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Left	3000	12000	-44.05	-13	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Right	0.009	0.15	-62.68	-33	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Right	0.15	30	-72.74	-23	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Right	30	1000	-51.19	-13	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Right	1000	3000	-36.47	-13	PASS
N12	15	10	DFT-16QAM	M	Edge_1RB_Right	3000	12000	-44.17	-13	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	0.009	0.15	-62.33	-33	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	0.15	30	-71.26	-23	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	30	1000	-48.35	-13	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	1000	3000	-36.48	-13	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	3000	12000	-43.99	-13	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-62.92	-33	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-70.68	-23	PASS

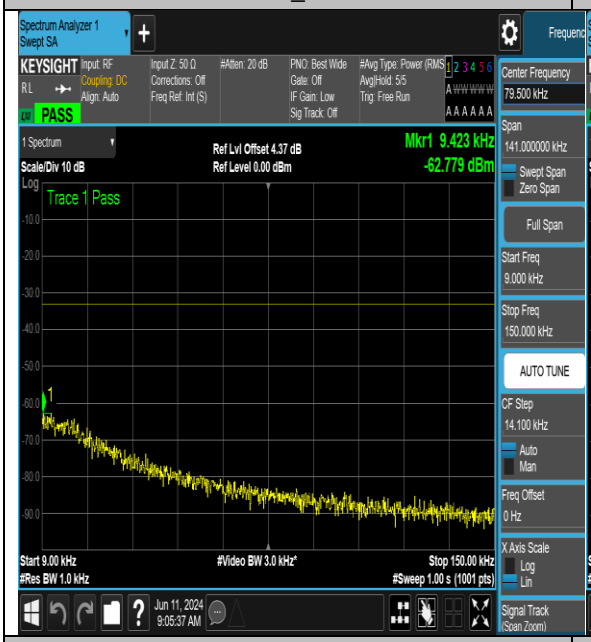
N12	15	10	DFT-QPSK	H	Edge_1RB_Left	30	1000	-52.11	-13	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-36.41	-13	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-43.87	-13	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Right	0.009	0.15	-63.07	-33	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Right	0.15	30	-69.10	-23	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Right	30	1000	-51.14	-13	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Right	1000	3000	-36.51	-13	PASS
N12	15	10	DFT-QPSK	H	Edge_1RB_Right	3000	12000	-44.13	-13	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	0.009	0.15	-63.16	-33	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	0.15	30	-73.06	-23	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	30	1000	-48.68	-13	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	1000	3000	-36.49	-13	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	3000	12000	-44.15	-13	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Left	0.009	0.15	-62.69	-33	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Left	0.15	30	-72.91	-23	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Left	30	1000	-51.87	-13	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Left	1000	3000	-36.28	-13	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Left	3000	12000	-44.22	-13	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Right	0.009	0.15	-62.63	-33	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Right	0.15	30	-70.87	-23	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Right	30	1000	-51.64	-13	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Right	1000	3000	-36.47	-13	PASS
N12	15	10	DFT-16QAM	H	Edge_1RB_Right	3000	12000	-44.26	-13	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	0.009	0.15	-63.11	-33	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	0.15	30	-72.42	-23	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	30	1000	-45.00	-13	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	1000	3000	-36.52	-13	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	3000	12000	-44.28	-13	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-62.15	-33	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-70.33	-23	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	30	1000	-51.90	-13	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-36.42	-13	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-44.13	-13	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Right	0.009	0.15	-62.25	-33	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Right	0.15	30	-69.88	-23	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Right	30	1000	-52.09	-13	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Right	1000	3000	-36.50	-13	PASS
N12	15	15	DFT-QPSK	L	Edge_1RB_Right	3000	12000	-44.11	-13	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	0.009	0.15	-61.19	-33	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	0.15	30	-72.49	-23	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	30	1000	-46.63	-13	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	1000	3000	-36.45	-13	PASS

N12	15	15	DFT-16QAM	L	Outer_Full	3000	12000	-44.13	-13	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Left	0.009	0.15	-62.98	-33	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Left	0.15	30	-71.76	-23	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Left	30	1000	-52.24	-13	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Left	1000	3000	-36.41	-13	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Left	3000	12000	-44.24	-13	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Right	0.009	0.15	-62.60	-33	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Right	0.15	30	-70.98	-23	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Right	30	1000	-51.96	-13	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Right	1000	3000	-36.53	-13	PASS
N12	15	15	DFT-16QAM	L	Edge_1RB_Right	3000	12000	-44.13	-13	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	0.009	0.15	-62.76	-33	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	0.15	30	-72.19	-23	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	30	1000	-46.61	-13	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	1000	3000	-36.52	-13	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	3000	12000	-44.14	-13	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-62.83	-33	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-71.94	-23	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Left	30	1000	-51.94	-13	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-36.54	-13	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-44.14	-13	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Right	0.009	0.15	-62.03	-33	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Right	0.15	30	-72.48	-23	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Right	30	1000	-52.19	-13	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Right	1000	3000	-36.44	-13	PASS
N12	15	15	DFT-QPSK	M	Edge_1RB_Right	3000	12000	-44.15	-13	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	0.009	0.15	-62.59	-33	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	0.15	30	-72.82	-23	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	30	1000	-47.84	-13	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	1000	3000	-36.45	-13	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	3000	12000	-43.89	-13	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Left	0.009	0.15	-63.02	-33	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Left	0.15	30	-70.82	-23	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Left	30	1000	-52.39	-13	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Left	1000	3000	-36.60	-13	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Left	3000	12000	-44.09	-13	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Right	0.009	0.15	-61.98	-33	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Right	0.15	30	-73.07	-23	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Right	30	1000	-51.97	-13	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Right	1000	3000	-36.55	-13	PASS
N12	15	15	DFT-16QAM	M	Edge_1RB_Right	3000	12000	-44.25	-13	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	0.009	0.15	-62.33	-33	PASS

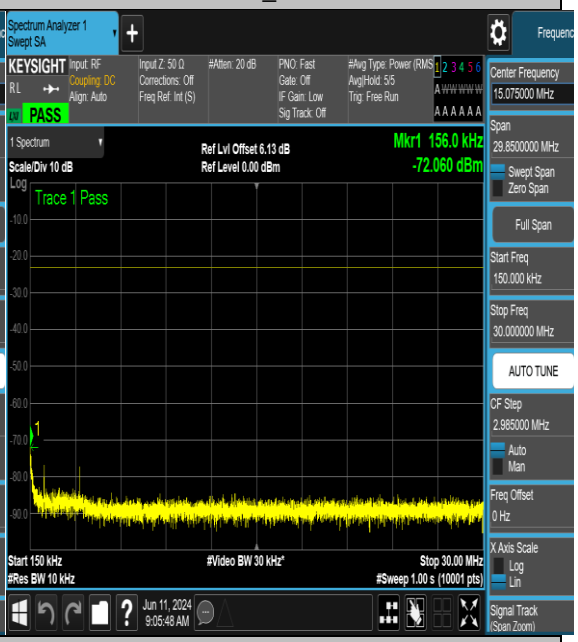
N12	15	15	DFT-QPSK	H	Outer_Full	0.15	30	-72.43	-23	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	30	1000	-46.34	-13	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	1000	3000	-36.53	-13	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	3000	12000	-44.07	-13	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-62.55	-33	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-72.09	-23	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Left	30	1000	-52.26	-13	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-36.46	-13	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-44.18	-13	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Right	0.009	0.15	-63.03	-33	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Right	0.15	30	-72.12	-23	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Right	30	1000	-51.94	-13	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Right	1000	3000	-36.47	-13	PASS
N12	15	15	DFT-QPSK	H	Edge_1RB_Right	3000	12000	-44.12	-13	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	0.009	0.15	-63.06	-33	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	0.15	30	-71.20	-23	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	30	1000	-47.50	-13	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	1000	3000	-36.53	-13	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	3000	12000	-44.26	-13	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Left	0.009	0.15	-62.41	-33	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Left	0.15	30	-71.11	-23	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Left	30	1000	-52.31	-13	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Left	1000	3000	-36.44	-13	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Left	3000	12000	-44.20	-13	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Right	0.009	0.15	-61.89	-33	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Right	0.15	30	-70.61	-23	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Right	30	1000	-52.10	-13	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Right	1000	3000	-36.45	-13	PASS
N12	15	15	DFT-16QAM	H	Edge_1RB_Right	3000	12000	-44.02	-13	PASS

Test Graphs

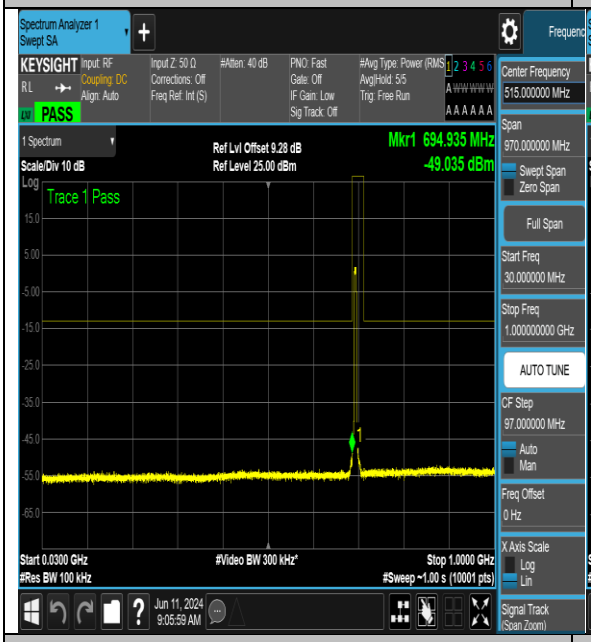
NTNV_N12_PC3_15_5_L_TID18_NS_01_0.009_0.15_#1



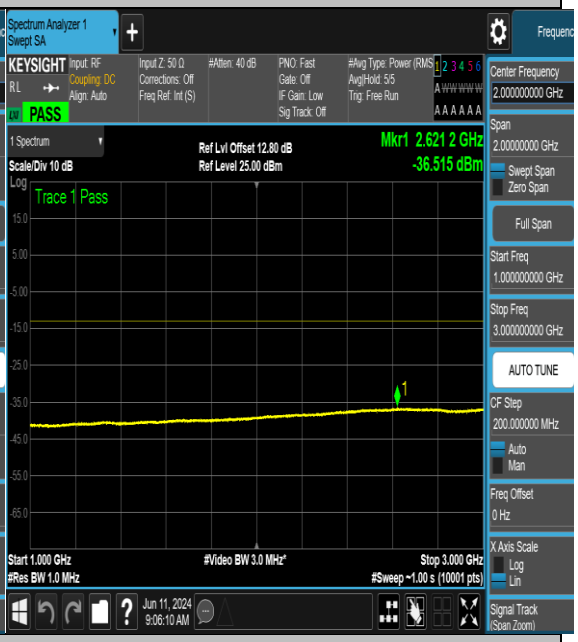
NTNV_N12_PC3_15_5_L_TID18_NS_01_0.15_30_#1



NTNV_N12_PC3_15_5_L_TID18_NS_01_30_1000_#1



NTNV_N12_PC3_15_5_L_TID18_NS_01_1000_3000_#1



NTNV_N12_PC3_15_5_L_TID18_NS_01_3000_12000_#1

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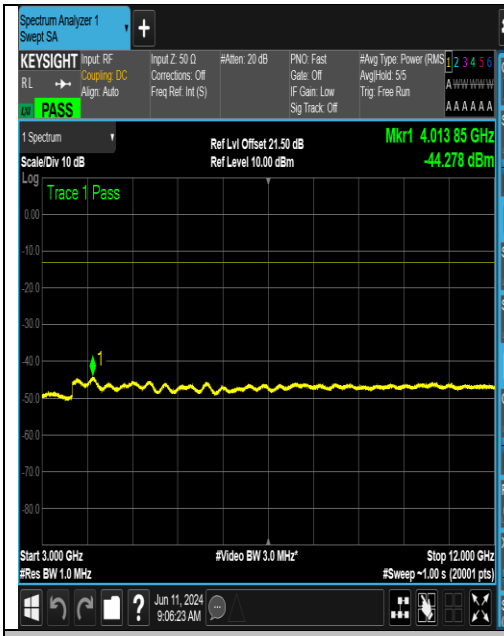

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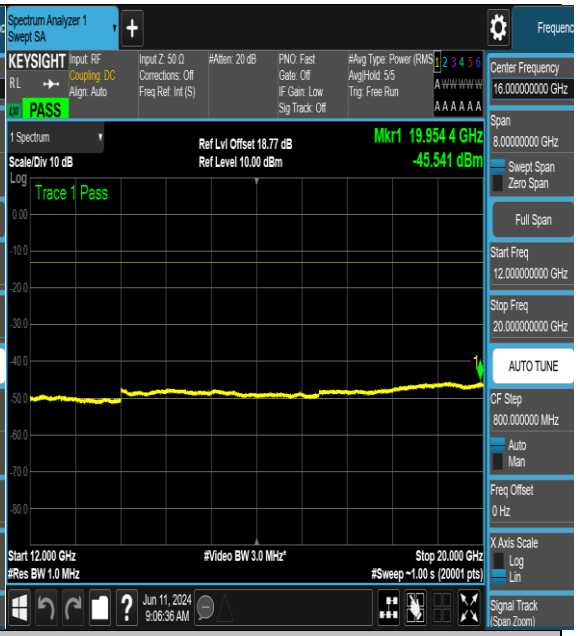

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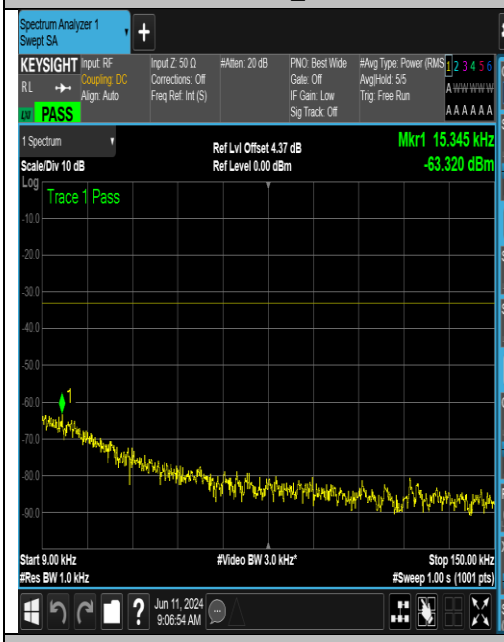

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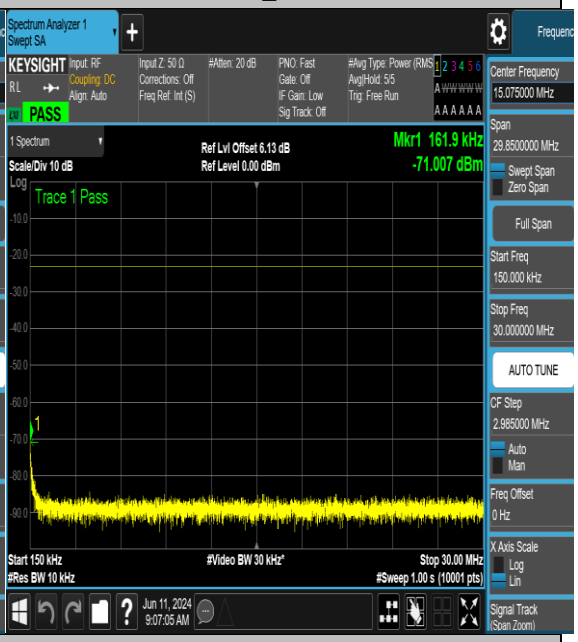

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