

TEST REPORT

NB-IoT SA

Configuration	Carrier	SA Carrier BW (MHz)	Carrier Frequency Configuration		
			Bottom	Middle	Top
SA-1C	1	0.2	869.2	881.5	893.8
SA-2C	2	0.2	-	871.7+891.3	-

NR+LTE

Configuration	Carrier	NR Carrier BW (MHz)	Carrier Frequency Configuration			LTE Carrier BW (MHz)
			Bottom	Middle	Top	
NR+LTE-MC-1	1NR+1LTE	5	-	(NR)871.5+(L)893.3	-	1.4
		5	-	(NR)871.5+(L)892.5	-	3
		10	-	(NR)874.0+(L)893.3	-	1.4
		10	-	(NR)874.0+(L)892.5	-	3
		15	-	(NR)876.5+(L)893.3	-	1.4
		15	-	(NR)876.5+(L)892.5	-	3
		20	-	(NR)879.0+(L)893.3	-	1.4
		20	-	(NR)879.0+(L)892.5	-	3
NR+LTE-MC-2	3NR+3LTE	5	-	(NR)871.5+876.5+881.5+(L)890.5+891.9+893.3	-	1.4
		5	-	(NR)871.5+876.5+881.5+(L)886.5+889.5+892.5	-	3

NR+LTE with NB-IB

Configuration	Carrier	NR Carrier BW (MHz)	Carrier Frequency Configuration			IB Carrier BW (MHz)
			Bottom	Middle	Top	
NR+IB-MC-1	1NR+1IB	5	-	(NR)871.5+(IB)891.5	-	5
		5	-	(NR)871.5+(IB)889.0	-	10
		5	-	(NR)871.5+(IB)886.5	-	15
		5	-	(NR)871.5+(IB)884.0	-	20
		10	-	(NR)874.0+(IB)891.5	-	5
		10	-	(NR)874.0+(IB)889.0	-	10
		10	-	(NR)874.0+(IB)886.5	-	15
		15	-	(NR)874.0+(IB)891.5	-	5
		15	-	(NR)876.5+(IB)889.0	-	10
		20	-	(NR)879.0+(IB)891.5	-	5
NR+IB-MC-2	4NR+1IB	5	-	(NR)871.5+876.5+881.5+886.5+(IB)891.5	-	5

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W+LTE

Configuration	Carrier	W Carrier BW(MHz)	Carrier Frequency Configuration			LTE Carrier BW (MHz)
			Bottom	Middle	Top	
W+LTE-MC-1	1W+1LTE	5	-	(W)871.4+(L)893.3	-	1.4
		5	-	(W)871.4+(L)892.5	-	3
		5	-	(W)871.4+(L)891.5	-	5
		5	-	(W)871.4+(L)889.0	-	10
		5	-	(W)871.4+(L)886.5	-	15
		5	-	(W)871.4+(L)884.0	-	20
W+LTE-MC-2	3W+3LTE	5	-	(W)871.4+876.4+881.4 +(L)890.5+891.9+893.3	-	1.4
		5	-	(W)871.4+876.4+881.4 +(L)886.5+889.5+892.5	-	3

W+NR

Configuration	Carrier	W Carrier BW (MHz)	Carrier Frequency Configuration			NR Carrier BW (MHz)
			Bottom	Middle	Top	
W+NR-MC-1	1W+1NR	5	-	(W)871.4+(NR)891.5	-	5
		5	-	(W)871.4+(NR)889.0	-	10
		5	-	(W)871.4+(NR)886.5	-	15
		5	-	(W)871.4+(NR)884.0	-	20
W+NR-MC-2	3W+2NR	5	-	(W)871.4+876.4+881.4 +(NR)886.5+891.5	-	5

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LTE+SA

Configuration	Carrier	LTE Carrier BW (MHz)	Carrier Frequency Configuration			SA Carrier W (MHz)
			Bottom	Middle	Top	
LTE+SA-MC-1	1L+1SA	1.4	-	(L)872.2+(SA)891.3	-	0.2
		3	-	(L)873.0+(SA)891.3	-	0.2
		5	-	(L)871.5+(SA)893.8	-	0.2
		10	-	(L)874.0+(SA)893.8	-	0.2
		15	-	(L)876.5+(SA)893.8	-	0.2
		20	-	(L)879.0+(SA)893.8	-	0.2
LTE+SA-MC-2	4L+2SA	1.4	-	(L)872.2+873.6+875.0 +876.4+(SA)889.7+891.3	-	0.2
		3	-	(L)873.0+876.0+879.0 +882.0+(SA)889.7+891.3	-	0.2
		5	-	(L)871.5+876.5+881.5 +886.5+(SA)892.2+893.8	-	0.2
LTE+SA-MC-3	4L+2SA	1.4	-	(SA)871.7+(L)879.4+880.8 +882.2+883.6+(SA)891.3	-	0.2
		3	-	(SA)871.7+(L)877.0+880.0 +883.0+886.0+(SA)891.3	-	0.2

W+SA

Configuration	Carrier	W Carrier BW (MHz)	Carrier Frequency Configuration			SA Carrier BW (MHz)
			Bottom	Middle	Top	
W+SA-MC-1	1W+1SA	5	-	(W)871.4+(SA)893.8	-	0.2
W+SA-MC-2	3W+2SA	5	-	(W)871.4+876.4+881.4 +(SA)892.2+893.8	-	0.2
W+SA-MC-3	3W+2SA	5	-	(SA)871.7+(W)876.4+881.4 +886.6+(SA)891.3	-	0.2

W+L+NR

Configuration	Carrier	NR Carrier BW (MHz)	Carrier Frequency Configuration			L Carrier BW (MHz)
			Bottom	Middle	Top	
W+L+NR-MC-1	1W+1L+1NR	5	-	(NR)871.5+(W)881.4+(L)893.3	-	1.4
		5	-	(NR)871.5+(W)881.4+(L)892.5	-	3
		5	-	(NR)871.5+(W)881.4+(L)891.5	-	5
		5	-	(NR)871.5+(W)881.4+(L)889.0	-	10
		10	-	(NR)874.0+(W)881.4+(L)893.3	-	1.4
		10	-	(NR)874.0+(W)881.4+(L)892.5	-	3
		10	-	(NR)874.0+(W)881.4+(L)891.5	-	5
		10	-	(NR)874.0+(W)881.4+(L)889.0	-	10

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N+L+SA

Configuration	Carrier	NR Carrier BW (MHz)	Carrier Frequency Configuration			L Carrier BW (MHz)
			Bottom	Middle	Top	
NR+L+SA-MC-1	1NR+1L +1SA	5	-	(NR)871.5+(L)893.0+(SA)893.8	-	1.4
		5	-	(NR)871.5+(L)892.2+(SA)893.8	-	3
		5	-	(NR)871.5+(L)891.2+(SA)893.8	-	5
		5	-	(NR)871.5+(L)888.7+(SA)893.8	-	10
		10	-	(NR)874.0+(L)893.0+(SA)893.8	-	1.4
		10	-	(NR)874.0+(L)892.2+(SA)893.8	-	3
		10	-	(NR)874.0+(L)891.2+(SA)893.8	-	5
		10	-	(NR)874.0+(L)888.7+(SA)893.8	-	10
NR+L+SA-MC-2	2NR+2L +2SA	5	-	(NR)871.5+876.5+(L)890.0 +891.4+(SA)892.2+893.8	-	1.4
		5	-	(NR)871.5+876.5+(L)887.6 +890.6+(SA)892.2+893.8	-	3

SA+L+W

Configuration	Carrier	L Carrier BW(MHz)	Carrier Frequency Configuration		
			Bottom	Middle	Top
SA+L+W-MC-1	1SA+1L +1W	1.4	-	(SA)871.7+(W)881.4+(L)890.8	-
		3	-	(SA)871.7+(W)881.4+(L)890.0	-
		5	-	(SA)869.2+(W)881.4+(L)891.5	-
		10	-	(SA)869.2+(W)881.4+(L)889.0	-
SA+L+W-MC-2	2SA+2L +2W	1.4	-	(SA)871.7+873.3+(W)878.8 +884.0+(L)889.4+890.8	-

LTE+GSM

Configuration	Carrier	LTE Carrier BW(MHz)	Carrier Frequency Configuration			GSM Carrier BW(MHz)
			Bottom	Middle	Top	
LTE+GSM-MC-1	1L+1GSM	1.4	-	(L)872.2+(G)891.4	-	0.2
		3	-	(L)873.0+(G)891.4	-	0.2
		5	-	(L)871.5+(G)893.6	-	0.2
		10	-	(L)874.0+(G)893.6	-	0.2
		15	-	(L)876.5+(G)893.6	-	0.2
		20	-	(L)879.0+(G)893.6	-	0.2
LTE+GSM-MC-2	3L+3GSM	1.4	-	(L)872.2+873.6+875.0 +(G)890.2+890.8+891.4	-	0.2
		3	-	(L)873.0+876.0+879.0 +(G)890.2+890.8+891.4	-	0.2
		5	-	(L)871.5+876.5+881.5 +(G)892.6+893.2+893.8	-	0.2

Note: For LTE+GSM-MC-1, GSM carrier nearest band edge moved by 0.2MHz.

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W+GSM

Configuration	Carrier	W Carrier BW(MHz)	Carrier Frequency Configuration			GSM Carrier BW(MHz)
			Bottom	Middle	Top	
W+GSM-MC-1	1W+1GSM	5	-	(W)871.4+(G)893.6	-	0.2
W+GSM-MC-2	3W+3GSM	5	-	(W)871.4+876.4+881.4 +(G)892.6+893.2+893.8	-	0.2

Note: For W+GSM-MC-1, GSM carrier nearest band edge moved by 0.2MHz.

NR/ESS with NB-IoT(IB)

Configuration	Carrier	ESS Carrier BW(MHz)	Carrier Frequency Configuration		
			Bottom	Middle	Top
NR ESS IB-1C	1	10	874.0	881.5	889.0
		15	876.5	881.5	886.5
		20	879.0	881.5	884.0

G+L+NR

Configuration	Carrier	L Carrier BW(MHz)	Carrier Frequency Configuration			NR Carrier BW(MHz)
			Bottom	Middle	Top	
G+L+NR-MC-1	1G+1L +1NR	1.4	-	(G)869.4+(L)881.5+(NR)891.5	-	5
		3	-	(G)869.4+(L)881.5+(NR)891.5	-	5
		5	-	(G)869.4+(L)881.5+(NR)891.5	-	5
		10	-	(G)869.4+(L)881.5+(NR)891.5	-	5
		1.4	-	(G)869.4+(L)881.5+(NR)889.0	-	10
		3	-	(G)869.4+(L)881.5+(NR)889.0	-	10
		5	-	(G)869.4+(L)881.5+(NR)889.0	-	10
		10	-	(G)869.4+(L)879.0+(NR)889.0	-	10
G+L+NR-MC-2	2G+2L +2NR	1.4	-	(G)869.2+869.8+(L)880.8 +882.2+(NR)886.5+891.5	-	5
		3	-	(G)869.2+869.8+(L)879.5 +882.5+(NR)886.5+891.5	-	5

Note: For G+L+NR-MC-1, GSM carrier nearest band edge moved by 0.2MHz.

W

Configuration	Carrier	W Carrier BW(MHz)	Carrier Frequency Configuration		
			Bottom	Middle	Top
W-1C-UE	1	5	871.4	-	891.6
W-2C-UE	2	5	871.4+876.4	-	886.6+891.6
W-5C-UE	5	5	-	871.4+876.4+881.4 +886.6+891.6	-

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NR

Configuration	Carrier	NR Carrier BW(MHz)	Carrier Frequency Configuration		
			Bottom	Middle	Top
NR-1C-UE	1	5	871.5	-	891.5
		10	874.0	-	889.0
		15	876.5	-	886.5
		20	879.0	-	884.0
NR-2C-UE	2	5	871.5+876.5	-	886.5+891.5
		10	874.0+884.0	-	879.0+889.0
NR-5C-UE	5	5	-	871.5+876.5+881.5+886.5+891.5	-

LTE

Configuration	Carrier	LTE Carrier BW(MHz)	Carrier Frequency Configuration		
			Bottom	Middle	Top
LTE-1C-UE	1	1.4	869.7	-	893.3
		3	867.5	-	892.5
		5	871.5	-	891.5
		10	874.0	-	889.0
		15	876.5	-	886.5
		20	879.0	-	884.0
LTE-2C-UE	2	1.4	869.7+871.1	-	891.9+893.3
		3	870.5+873.5	-	889.5+892.5
		5	871.5+876.5	-	886.5+891.5
		10	874.0+884.0	-	879.0+889.0
LTE-6C-UE	6	1.4	869.7+871.1 +872.5+873.9 +875.3+876.7	-	886.3+887.7 +889.1+890.5 +891.9+893.3
		3	870.5+873.5 +876.5+879.5 +882.5+885.5	-	877.5+880.5 +883.5+886.5 +889.5+892.5

NB-IoT SA

Configuration	Carrier	SA Carrier BW(MHz)	Carrier Frequency Configuration		
			Bottom	Middle	Top
SA-1C-UE	1	0.2	869.2	-	893.8
SA-2C-UE	2	0.2	869.2+870.8	-	892.2+893.8

NR+LTE

Configuration	Carrier	NR Carrier BW(MHz)	Carrier Frequency Configuration			LTE Carrier BW(MHz)
			Bottom	Middle	Top	
NR+LTE-MC-1-UE	1NR+1LTE	5	(NR)871.5+(L)874.7	-	(NR)890.1+(L)893.3	1.4
		20	(NR)879.0+(L)890.5	-	(NR)881.0+(L)892.5	3
NR+LTE-MC-2-UE	3NR+3LTE	5	(NR)871.5+876.5 +881.5+(L)884.7 +886.1+887.5	-	(NR)877.3+882.3 +887.3+(L)890.5 +891.9+893.3	1.4
		5	(NR)871.5+876.5 +881.5+(L)885.5 +888.5+891.5	-	(NR)872.5+877.5 +882.5+(L)886.5 +889.5+892.5	3

NR+LTE with NB-IB

Configuration	Carrier	NR Carrier BW(MHz)	Carrier Frequency Configuration			IB Carrier BW(MHz)
			Bottom	Middle	Top	
NR+IB-MC-1-UE	1NR+1IB	5	(NR)871.5 +(IB)876.5	-	(NR)886.5 +(IB)891.5	5
		5	-	(NR)871.5+(IB)884.0	-	20
		20	-	(NR)879.0+(IB)891.5	-	5
NR+IB-MC-2-UE	4NR+1IB	5	-	(NR)871.5+876.5 +881.5+886.5 +(IB)891.5	-	5

W+LTE

Configuration	Carrier	W Carrier BW(MHz)	Carrier Frequency Configuration			LTE Carrier BW(MHz)
			Bottom	Middle	Top	
W+LTE-MC-1-UE	1W+1LTE	5	(W)871.4+(L)874.7	-	(W)890.2+(L)893.3	1.4
		5	(W)871.4+(L)875.5	-	(W)888.6+(L)892.5	3
		5	(W)871.4+(L)876.5	-	(W)886.6+(L)891.5	5
		5	-	(W)871.6 +(L)884.0	-	20
W+LTE-MC-2-UE	3W+3LTE	5	(W)871.4+876.4 +881.4+(L)884.7 +886.1+887.5	-	(W)877.4+882.4 +887.4+(L)890.5 +891.9+893.3	1.4
		5	(W)871.4+876.4 +881.4+(L)885.5 +888.5+891.5	-	(W)872.6+877.6 +882.6+(L)886.5 +889.5+892.5	3

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W+NR

Configuration	Carrier	W Carrier BW(MHz)	Carrier Frequency Configuration			NR Carrier BW(MHz)
			Bottom	Middle	Top	
W+NR-MC-1-UE	1W+1NR	5	(W)871.4 +(NR)876.5	-	(W)886.6 +(NR)891.5	5
		5	-	(W)871.4+(NR)884.0	-	20
W+NR-MC-2-UE	3W+2NR	5	-	(W)871.4+876.4 +881.4+(NR)886.5 +891.5	-	5

L+SA

Configuration	Carrier	LTE Carrier BW(MHz)	Carrier Frequency Configuration			SA Carrier BW(MHz)
			Bottom	Middle	Top	
LTE+SA-MC-1-UE	1L+1SA	1.4	(L)869.7+(SA)870.5	-	(L)893.0+(SA)893.8	0.2
		3	(L)870.5+(SA)872.1	-	(L)892.2+(SA)893.8	0.2
		5	(L)871.5+(SA)874.1	-	(L)891.2+(SA)893.8	0.2
		20	(L)879.0+(SA)889.1	-	(L)883.7+(SA)893.8	0.2
LTE+SA-MC-2-UE	4L+2SA	1.4	(L)869.7+871.1 +872.5+873.9 +(SA)874.7+876.3	-	(L)887.2+888.6 +890.0+891.4 +(SA)892.2+893.8	0.2
		3	(L)870.5+873.5 +876.5+879.5 +(SA)881.1+882.7	-	(L)881.6+884.6 +887.6+890.6 +(SA)892.2+893.8	0.2
		5	(L)871.5+876.5 +881.5+886.5 +(SA)889.1+890.7	-	(L)874.6+879.6 +884.6+889.6 +(SA)892.2+893.8	0.2
LTE+SA-MC-3-UE	4L+2SA	1.4	(SA)869.2+(L)876.9 +878.3+879.7 +881.1+(SA)888.8	-	(SA)874.2+(L)881.9 +883.3+884.7 +886.1+(SA)893.8	0.2
		3	(SA)869.2+(L)874.5 +877.5+880.5 +883.5+(SA)888.8	-	(SA)874.2+(L)877.0 +880.0+883.0 +886.0+(SA)893.8	0.2

W+SA

Configuration	Carrier	W Carrier BW(MHz)	Carrier Frequency Configuration			SA Carrier BW(MHz)
			Bottom	Middle	Top	
W+SA-MC-1-UE	1W+1SA	5	(W)871.4+(SA)872.3	-	(W)891.2+(SA)893.8	0.2
W+SA-MC-2-UE	3W+2SA	5	(W)871.4+876.4 +881.4+(SA)884.1 +885.7	-	(W)879.6+884.6 +889.6+(SA)892.2 +893.8	0.2
W+SA-MC-3-UE	3W+2SA	5	(SA)869.2+(W)873.8 +878.8+883.8 +(SA)888.8	-	(SA)879.6+(W)879.0 +884.0+889.0 +(SA)893.8	0.2

TEST REPORT

W+L+NR

Configuration	Carrier	NR Carrier BW (MHz)	Carrier Frequency Configuration			L Carrier BW (MHz)
			Bottom	Middle	Top	
W+L+NR-MC -1-UE	1W+1L +1NR	5	(NR)871.5+(W)876.4 +(L)879.7	-	(NR)885.1+(W)890.2 +(L)893.3	1.4
		5	(NR)871.5+(W)876.4 +(L)881.5	-	(NR)881.5+(W)886.6 +(L)891.5	5
		10	(NR)874.0+(W)881.4 +(L)885.5	-	(NR)881.0+(W)888.6 +(L)892.5	3
		10	-	(NR)874.0 +(W)881.4 +(L)889.0	-	10

NR+L+SA

Configuration	Carrier	NR Carrier BW(MHz)	Carrier Frequency Configuration			L Carrier BW(MHz)
			Bottom	Middle	Top	
NR+L+SA-MC -1-UE	1NR+1L +1SA	5	(NR)871.5+(L)874.7 +(SA)875.5	-	(NR)889.8+(L)893.0 +(SA)893.8	1.4
		5	(NR)871.5+(L)876.5 +(SA)879.1	-	(NR)886.2+(L)891.2 +(SA)893.8	5
		10	(NR)874.0+(L)880.5 +(SA)882.1	-	(NR)885.7+(L)892.2 +(SA)893.8	3
		10	(NR)874.0+(L)884.0 +(SA)889.1	-	(NR)878.7+(L)888.7 +(SA)893.8	10
NR+L+SA-MC -2-UE	2NR+2L +2SA	5	(NR)871.5+876.5 +(L)879.7+881.1 +(SA)881.9+883.5	-	(NR)881.8+886.8 +(L)890.0+891.4 +(SA)892.2+893.8	1.4
		5	(NR)871.5+876.5 +(L)880.5+883.5 +(SA)885.1+886.7	-	(NR)878.6+883.6 +(L)887.6+890.6 +(SA)892.2+893.8	3

TEST REPORT

SA+L+W

Configuration	Carrier	L Carrier BW(MHz)	Carrier Frequency Configuration		
			Bottom	Middle	Top
SA+L+W-MC -1-UE	1SA+1L +1W	1.4	(SA)869.2+(W)871.8 +(L)875.0	-	(SA)887.5+(W)890.2 +(L)893.3
		3	(SA)869.2+(W)871.8 +(L)875.8	-	(SA)885.9+(W)888.6 +(L)892.5
		5	(SA)869.2+(W)871.8 +(L)876.8	-	(SA)883.9+(W)886.6 +(L)891.5
		10	(SA)869.2+(W)871.8 +(L)884.3	-	(SA)878.9+(W)881.6 +(L)889.0
SA+L+W-MC -2-UE	2SA+2L +2W	1.4	(SA)869.2+870.8+(W)873.4 +878.4+(L)881.6+883.0	-	(SA)879.5+881.1+(W)883.8 +888.8+(L)891.9+893.3
		3	(SA)869.2+870.8+(W)873.4 +878.4+(L)882.4+885.4	-	(SA)876.3+877.9+(W)880.6 +885.6+(L)889.5+892.5

LTE+GSM

Configuration	Carrier	LTE Carrier BW (MHz)	Carrier Frequency Configuration			GSM Carrier BW (MHz)
			Bottom	Middle	Top	
LTE+GSM-MC -1-UE	1L+ 1GSM	1.4	(L)869.7+(G)870.6	-	(L)892.8+(G)893.6	0.2
		3	(L)870.5+(G)872.2	-	(L)892.0+(G)893.6	0.2
		5	(L)871.5+(G)874.2	-	(L)891.0+(G)893.6	0.2
		20	(L)879.0+(G)889.2	-	(L)883.5+(G)893.6	0.2
LTE+GSM-MC -2-UE	3L+ 3GSM	1.4	(L)869.7+871.1+872.5 +(G)873.4+874.0+874.6	-	(L)889.0+890.4+891.8 +(G)892.6+893.2+893.8	0.2
		3	(L)870.5+873.5+876.5 +(G)878.2+878.8+879.4	-	(L)885.0+888.0+891.0 +(G)892.6+893.2+893.8	0.2
		5	(L)871.5+876.5+881.5 +(G)884.2+884.8+885.4	-	(L)880.0+885.0+890.0 +(G)892.6+893.2+893.8	0.2

Note: For LTE+GSM-MC-1-UE, GSM carrier nearest band edge moved by 0.2MHz.

W+GSM

Configuration	Carrier	W Carrier BW (MHz)	Carrier Frequency Configuration			GSM Carrier BW (MHz)
			Bottom	Middle	Top	
W+GSM-MC -1-UE	1W+ 1GSM	5	(W)871.4+(G)874.2	-	(W)891.2+(G)893.6	0.2
W+GSM-MC -2-UE	3W+ 3GSM	5	(W)871.4+876.4+881.4 +(G)884.2+884.8+885.4	-	(W)880.2+885.2+890.2 +(G)892.6+893.2+893.8	0.2

Note: For W+GSM-MC-1-UE, GSM carrier nearest band edge moved by 0.2MHz.

TEST REPORT

NR/ESS with NB-IoT(IB)

Configuration	Carrier	ESS Carrier BW(MHz)	Carrier Frequency Configuration		
			Bottom	Middle	Top
NR ESS IB-1C-UE	1	10	874.0	-	889.0
		15	876.5	-	886.5
		20	879.0	-	884.0

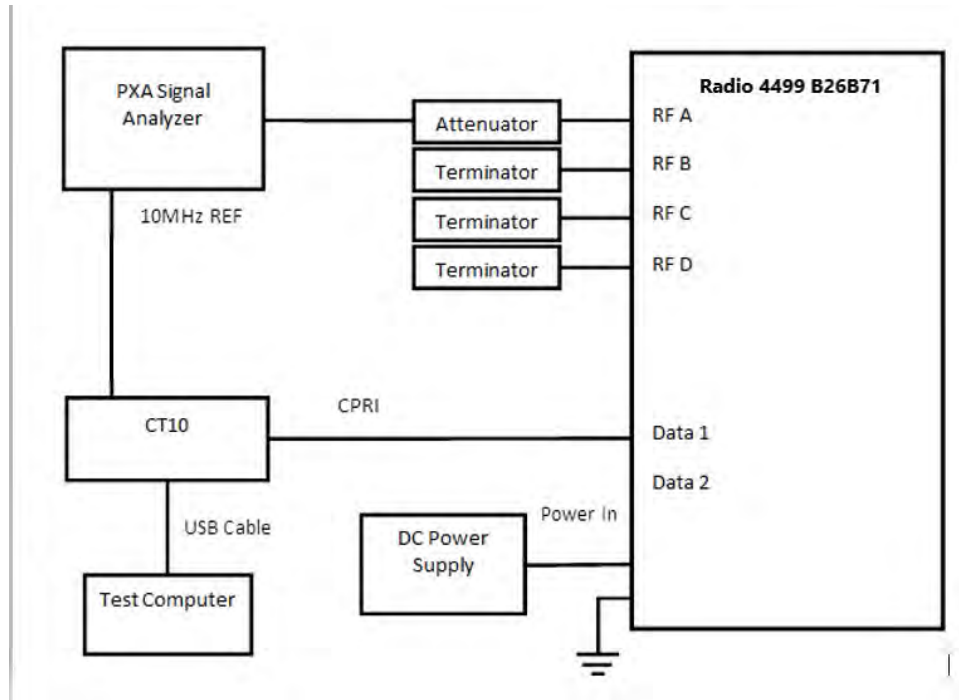
G+L+NR

Configuration	Carrier	L Carrier BW(MHz)	Carrier Frequency Configuration			NR Carrier BW(MHz)
			Bottom	Middle	Top	
G+L+NR-MC -1-UE	1G+1L +1NR	1.4	(G)869.4+(L)870.2 +(NR)873.4	-	(G)887.2+(L)888.1 +(NR)891.5	5
		5	(G)869.4+(L)872.0 +(NR)877.0	-	(G)883.8+(L)886.5 +(NR)891.5	5
		3	(G)869.4+(L)871.0 +(NR)877.5	-	(G)879.8+(L)881.5 +(NR)889.0	10
		10	(G)869.4+(L)874.5 +(NR)884.5	-	(G)868.8+(L)879.0 +(NR)889.0	10
G+L+NR-MC -2-UE	2G+2L +2NR	1.4	(G)869.2+869.8 +(L)870.6+872.0 +(NR)875.2+880.2	-	(G)880.4+881.0 +(L)881.9+883.3 +(NR)886.5+891.5	5
		3	(G)869.2+869.8 +(L)871.4+874.4 +(NR)878.4+883.4	-	(G)877.2+877.8 +(L)879.5+882.5 +(NR)886.5+891.5	5

Note: For G+L+NR-MC-1-UE, GSM carrier nearest band edge moved by 0.2MHz.

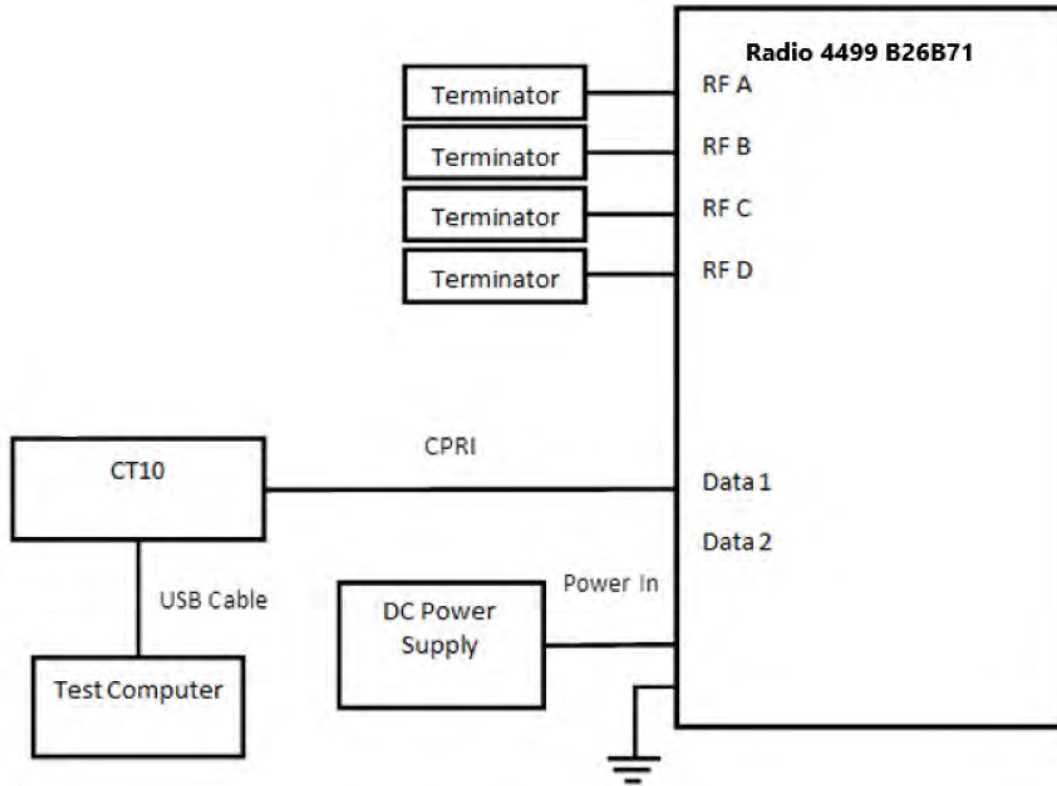
2.4 Test Setup

Conducted Measurement:



No.	Auxiliary Equipment	Product Number / Model Type	Version
1	Test computer	DELL Optiplex 3050	-
2	CT10	LPC102487/1	R1C
4	DC Power Supply	N8737A	-
5	Attenuator	AT6-460-MF-IM-300	-
6	Attenuator	WDTS300-30Db-6G-NFF	-
7	Terminator	WTF100-10	-

Radiated Measurement:



No.	Auxiliary Equipment	Product Number / Model Type	Version
1	Test computer	DELL Optiplex 3050	-
2	CT10	LPC102487/1	R1C
4	DC Power Supply	N8737A	-
5	Attenuator	AT6-460-MF-IM-300	-
6	Attenuator	WDTS300-30Db-6G-NFF	-
7	Terminator	WTF100-10	-

TEST REPORT**2.5 Test environment condition:**

Test items	Temperature	Humidity
Max Output Power and Peak to Average Power Ratio and EIRP	21°C	54% RH
Occupied Bandwidth		
Unwanted Emissions at Band Edge		
Conducted Unwanted Emission		
Radiated Unwanted Emissions	22°C	56% RH
Frequency Stability	Please refer to clause 8	

2.6 Instrument list

Intertek Testing Services Shanghai					
Used	Equipment	Manufacturer	Type	S/N	Due date
<input checked="" type="checkbox"/>	PXA Signal Analyzer	Keysight	N9030A	MY54490394	2023.4.7
<input checked="" type="checkbox"/>	Signal Generator	R&S	SMU200A	103457	2023.8.14
<input checked="" type="checkbox"/>	Multi-meter	Fluke	117	93990470	2023.1.9
<input checked="" type="checkbox"/>	Climatic Chamber	赛宝	CEEC-WR16H-50W	15-095	2023.9.20
<input checked="" type="checkbox"/>	Humiture meter	托普	TPJ-20	TP161108085	2023.2.21
<input checked="" type="checkbox"/>	Power sensor	R&S	NRP-Z11	120458	2023.8.9
<input checked="" type="checkbox"/>	Power sensor	R&S	NRP-Z21	104407	2023.8.9
<input checked="" type="checkbox"/>	Power meter	R&S	NRX	101173_BAMS-1001958119	2023.8.9

BEIJING BOOMWAVE TEST SERVICE CO. LTD.					
Used	Equipment	Manufacturer	Type	S/N	Due date
<input checked="" type="checkbox"/>	EMI TEST RECERVER	R&S	ESR26	101320	2023/01/11
<input checked="" type="checkbox"/>	Hybrid antenna	SCHWARZBECK	VULB9163	01266	2023/07/03
<input checked="" type="checkbox"/>	Double-Ridged Waveguide Horn Antenna	R&S	HF907	100096	2023/05/27
<input checked="" type="checkbox"/>	Pre-amplifier	Qualwave	QLAS-1000-18000-45-30	20255003	2023/01/11
<input checked="" type="checkbox"/>	Digital display temperature and humidity recorder	DICKSON	TM320	015079	2023/05/09
<input checked="" type="checkbox"/>	SAC10	TDK	SAC10	SAC10	2023/07/11

2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum output power	0.73dB
Occupied Bandwidth	0.88%
Unwanted Emissions at Band Edge	3.03dB
Conducted Unwanted Emission	3.03dB
Radiated Unwanted Emissions below 1GHz	4.90dB
Radiated Unwanted Emissions above 1GHz	5.02dB
Frequency stability	0.77×10^{-7}

TEST REPORT

3 Maximum Output Power and Peak to Average Power Ratio and EIRP

Test result: Pass

3.1 Limit

FCC CFR 47 Part 22:

Except as described in paragraphs (a)(2), (3), and (4) of this section, the ERP of base stations and repeaters must not exceed—

- (i) 500 watts per emission; or
- (ii) 400 watts/MHz (PSD) per sector.

RSS-132 Issue 3:

Base stations for digital systems are limited to 1640 watts maximum equivalent isotropically radiated power (EIRP) with an antenna height above average terrain (HAAT) up to 150 m, except in urban areas where they are limited to a maximum allowable EIRP of 820 watts.

Peak to Average Ratio: ≤ 13 dB

3.2 Measurement Procedure

The EUT was configured to transmit on maximum power and proper modulation. The transmitter power shall be measured in terms of a root-mean-square (RMS) average value. In case of the EUT was configured to MIMO mode, since the EUT transmits on all antennas simultaneously in the same frequency range, using the Measure-and-Sum approach, the output power at all antennas were tested, and the total output power were then summed mathematically in linear power units according to FCC KDB 662911 D01.

A peak to average ratio measurement is performed at the conducted ports of the EUT for single carrier for single RAT mode. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) was used and 0.1% probability value recorded.

3.3 Measurement result

W-1C

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	5	45.88	40.46	7.34	46.03	40.68	7.28	46.06	40.58	7.31
B	QPSK	5	46.01	40.59	7.31	46.04	40.63	7.35	46.12	40.71	7.33
C	QPSK	5	46.01	40.57	7.31	46.09	40.60	7.33	46.09	40.64	7.35
D	QPSK	5	45.71	40.22	7.29	45.76	40.23	7.35	45.66	40.23	7.33
Total			51.92	46.48	-	52.00	46.56	-	52.01	46.56	-

W-2C

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	5	-	-	-	47.54	39.24	-	-	-	-
B	QPSK	5	-	-	-	47.84	39.45	-	-	-	-
C	QPSK	5	-	-	-	47.70	39.31	-	-	-	-
D	QPSK	5	-	-	-	47.39	38.92	-	-	-	-
Total			-	-	-	53.64	45.25	-	-	-	-

W-5C

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	5	-	-	-	47.73	35.39	-	-	-	-
B	QPSK	5	-	-	-	47.97	35.45	-	-	-	-
C	QPSK	5	-	-	-	47.83	35.48	-	-	-	-
D	QPSK	5	-	-	-	47.48	35.15	-	-	-	-
Total			-	-	-	53.78	41.39	-	-	-	-

NR-1C

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	5	45.64	39.43	8.40	45.86	39.70	8.30	45.81	39.57	8.42
B	QPSK	5	45.80	39.53	8.27	45.80	39.58	8.08	45.85	39.66	8.45
C	QPSK	5	45.75	39.48	8.29	45.75	39.57	8.41	45.83	39.66	8.52
D	QPSK	5	45.83	39.58	8.33	45.86	39.70	8.33	45.94	39.76	8.29
Total			51.78	45.53	-	51.84	45.66	-	51.88	45.68	-

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	10	47.63	38.30	7.44	47.71	38.37	7.36	47.56	38.24	7.40
B	QPSK	10	47.65	38.26	7.45	47.67	38.27	7.39	47.58	38.20	7.44
C	QPSK	10	47.71	38.34	7.40	47.78	38.42	7.38	47.67	38.27	7.40
D	QPSK	10	47.63	38.28	7.46	47.56	38.32	7.40	47.59	38.26	7.40
Total			53.68	44.32	-	53.70	44.37	-	53.62	44.26	-

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	15	47.55	36.42	7.53	47.65	36.50	7.47	47.50	36.34	7.44
B	QPSK	15	47.62	36.44	7.47	47.73	36.52	7.46	47.73	36.51	7.40
C	QPSK	15	47.66	36.45	7.47	47.64	36.44	7.41	47.67	36.56	7.48
D	QPSK	15	47.73	36.52	7.43	47.64	36.46	7.44	47.53	36.35	7.48
Total			53.66	42.48	-	53.69	42.50	-	53.63	42.46	-

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	20	47.60	35.03	7.46	47.52	35.18	7.44	47.51	35.12	7.47
B	QPSK	20	47.62	35.11	7.46	47.48	35.12	7.45	47.52	35.09	7.44
C	QPSK	20	47.60	35.10	7.46	47.57	35.16	7.45	47.60	35.15	7.51
D	QPSK	20	47.72	35.31	7.42	47.65	35.22	7.43	47.57	35.17	7.43
Total			53.66	41.16	-	53.58	41.19	-	53.57	41.15	-

TEST REPORT

NR-2C

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	47.51	5	-	-	-	47.14	37.96	-	-	-	-
B	47.52	5	-	-	-	47.30	38.09	-	-	-	-
C	47.60	5	-	-	-	47.30	38.09	-	-	-	-
D	47.57	5	-	-	-	47.16	37.79	-	-	-	-
Total			-	-	-	53.25	44.00	-	-	-	-

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	47.51	10	-	-	-	47.55	35.20	-	-	-	-
B	47.52	10	-	-	-	47.64	35.27	-	-	-	-
C	47.60	10	-	-	-	47.63	35.26	-	-	-	-
D	47.57	10	-	-	-	47.53	35.18	-	-	-	-
Total			-	-	-	53.61	41.25	-	-	-	-

NR-5C

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	47.51	5	-	-	-	47.38	34.24	-	-	-	-
B	47.52	5	-	-	-	47.57	34.36	-	-	-	-
C	47.60	5	-	-	-	47.47	34.28	-	-	-	-
D	47.57	5	-	-	-	47.51	34.35	-	-	-	-
Total			-	-	-	53.50	40.33	-	-	-	-

TEST REPORT

LTE-1C

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	1.4	42.78	41.78	8.72	42.92	41.90	8.54	42.84	41.83	8.70
B	QPSK	1.4	42.96	41.96	8.14	42.93	41.82	8.15	43.06	41.99	7.87
C	QPSK	1.4	42.86	41.86	8.03	42.96	41.98	8.03	43.00	41.95	8.04
D	QPSK	1.4	43.04	42.20	8.54	42.98	42.00	8.50	43.09	42.02	8.64
Total			48.93	47.97	-	48.97	47.95	-	49.02	47.97	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	3	42.87	38.79	8.28	43.02	38.95	8.12	42.89	38.81	8.12
B	QPSK	3	43.00	38.86	8.18	43.06	39.01	8.20	43.07	39.04	7.95
C	QPSK	3	42.91	38.87	8.16	42.96	38.92	8.28	43.01	38.99	8.49
D	QPSK	3	43.03	39.01	8.28	43.10	39.08	8.44	43.04	39.00	8.43
Total			48.97	44.90	-	49.06	45.01	-	49.02	44.98	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	5	45.89	39.68	8.41	45.99	39.79	8.31	45.95	39.71	8.34
B	QPSK	5	45.95	39.74	8.17	45.96	39.76	8.13	46.01	39.80	8.20
C	QPSK	5	45.93	39.80	8.18	46.08	39.90	8.42	46.14	39.93	8.29
D	QPSK	5	46.06	39.79	8.37	46.08	39.90	8.39	46.05	39.81	8.18
Total			51.98	45.77	-	52.05	45.86	-	52.06	45.83	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	10	47.68	38.46	7.38	47.40	38.54	7.33	47.62	38.49	7.34
B	QPSK	10	47.84	38.64	7.35	47.87	38.63	7.32	47.74	38.54	7.31
C	QPSK	10	47.79	38.58	7.37	47.84	38.63	7.37	47.81	38.63	7.32
D	QPSK	10	47.68	38.50	7.40	47.74	38.59	7.33	47.72	38.59	7.32
Total			53.77	44.57	-	53.74	44.62	-	53.74	44.58	-

TEST REPORT

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	15	47.82	36.86	7.38	47.82	36.85	7.29	47.67	36.79	7.33
B	QPSK	15	47.77	36.81	7.36	47.81	36.86	7.35	47.79	36.87	7.42
C	QPSK	15	47.82	36.89	7.36	47.81	36.83	7.35	47.73	36.83	7.34
D	QPSK	15	47.82	36.86	7.36	47.69	36.77	7.29	47.68	36.79	7.39
Total			53.83	42.88	-	53.80	42.85	-	53.74	42.84	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	20	47.69	35.64	7.33	47.78	35.60	7.33	47.80	35.65	7.37
B	QPSK	20	47.73	35.53	7.34	47.76	35.56	7.34	47.72	35.64	7.43
C	QPSK	20	47.76	35.58	7.33	47.79	35.61	7.30	47.80	35.65	7.37
D	QPSK	20	47.80	35.69	7.30	47.76	35.60	7.28	47.76	35.58	7.31
Total			53.77	41.63	-	53.79	41.61	-	53.79	41.65	-

LTE-2C

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	1.4	-	-	-	45.97	41.99	-	-	-	-
B	QPSK	1.4	-	-	-	45.99	41.92	-	-	-	-
C	QPSK	1.4	-	-	-	46.10	41.95	-	-	-	-
D	QPSK	1.4	-	-	-	45.94	41.97	-	-	-	-
Total			-	-	-	52.02	47.98	-	-	-	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	3	-	-	-	46.08	39.01	-	-	-	-
B	QPSK	3	-	-	-	45.99	38.93	-	-	-	-
C	QPSK	3	-	-	-	45.98	38.93	-	-	-	-
D	QPSK	3	-	-	-	45.94	38.89	-	-	-	-
Total			-	-	-	52.02	44.96	-	-	-	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	5	-	-	-	47.37	38.19	-	-	-	-
B	QPSK	5	-	-	-	47.41	38.26	-	-	-	-
C	QPSK	5	-	-	-	47.36	38.19	-	-	-	-
D	QPSK	5	-	-	-	47.33	38.17	-	-	-	-
Total			-	-	-	53.39	44.22	-	-	-	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	10	-	-	-	47.65	35.46	-	-	-	-
B	QPSK	10	-	-	-	47.64	35.41	-	-	-	-
C	QPSK	10	-	-	-	47.68	35.49	-	-	-	-
D	QPSK	10	-	-	-	47.60	35.74	-	-	-	-
Total			-	-	-	53.66	41.55	-	-	-	-

LTE-6C

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	1.4	-	-	-	47.32	38.75	-	-	-	-
B	QPSK	1.4	-	-	-	47.45	38.80	-	-	-	-
C	QPSK	1.4	-	-	-	47.40	38.83	-	-	-	-
D	QPSK	1.4	-	-	-	47.50	38.89	-	-	-	-
Total			-	-	-	53.44	44.84	-	-	-	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	3	-	-	-	47.59	35.84	-	-	-	-
B	QPSK	3	-	-	-	47.72	35.94	-	-	-	-
C	QPSK	3	-	-	-	47.75	35.94	-	-	-	-
D	QPSK	3	-	-	-	47.68	35.85	-	-	-	-
Total			-	-	-	53.71	41.91	-	-	-	-

TEST REPORT

NB-SA-1C

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	0.2	42.54	42.63	7.05	42.66	42.79	7.24	42.50	42.63	6.88
B	QPSK	0.2	42.64	42.76	7.23	42.65	42.77	7.40	42.50	42.70	7.02
C	QPSK	0.2	42.64	42.77	7.06	42.67	42.81	7.29	42.61	42.74	7.31
D	QPSK	0.2	42.35	42.47	7.06	42.39	42.51	7.03	42.36	42.48	7.28
Total			48.56	48.68	-	48.61	48.74	-	48.51	48.66	-

NB-SA-2C

Antenna Port	Modulation	Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	0.2	-	-	-	42.53	40.67	-	-	-	-
B	QPSK	0.2	-	-	-	42.92	40.77	-	-	-	-
C	QPSK	0.2	-	-	-	43.05	40.72	-	-	-	-
D	QPSK	0.2	-	-	-	42.54	40.66	-	-	-	-
Total			-	-	-	48.79	46.73	-	-	-	-

NR+L-MC-1

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	1.4	47.29	41.53	-
B	QPSK	QPSK	5	1.4	47.27	41.52	-
C	QPSK	QPSK	5	1.4	47.38	41.53	-
D	QPSK	QPSK	5	1.4	47.00	41.37	-
Total					53.26	47.51	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	3	47.26	39.21	-
B	QPSK	QPSK	5	3	47.31	39.27	-
C	QPSK	QPSK	5	3	47.36	39.30	-
D	QPSK	QPSK	5	3	47.02	38.96	-
Total					53.26	45.21	-

TEST REPORT

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	1.4	47.39	41.49	-
B	QPSK	QPSK	10	1.4	47.41	41.51	-
C	QPSK	QPSK	10	1.4	47.38	41.46	-
D	QPSK	QPSK	10	1.4	47.01	41.16	-
Total					53.32	47.43	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	3	47.32	38.50	-
B	QPSK	QPSK	10	3	47.36	38.58	-
C	QPSK	QPSK	10	3	47.36	38.47	-
D	QPSK	QPSK	10	3	47.02	38.15	-
Total					53.29	44.45	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	15	1.4	47.36	41.44	-
B	QPSK	QPSK	15	1.4	47.31	41.54	-
C	QPSK	QPSK	15	1.4	47.24	41.36	-
D	QPSK	QPSK	15	1.4	47.03	41.19	-
Total					53.26	47.40	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	15	3	47.28	38.42	-
B	QPSK	QPSK	15	3	47.37	38.58	-
C	QPSK	QPSK	15	3	47.38	38.53	-
D	QPSK	QPSK	15	3	47.08	38.20	-
Total					53.30	44.46	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	20	1.4	47.33	41.35	-
B	QPSK	QPSK	20	1.4	47.36	41.94	-
C	QPSK	QPSK	20	1.4	47.42	41.44	-
D	QPSK	QPSK	20	1.4	47.08	41.20	-
Total					53.32	47.51	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	20	3	47.27	38.37	-
B	QPSK	QPSK	20	3	47.34	38.55	-
C	QPSK	QPSK	20	3	47.40	38.53	-
D	QPSK	QPSK	20	3	47.07	38.16	-
Total					53.29	44.43	-

L+NR-MC-2

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	1.4	47.31	38.55	-
B	QPSK	QPSK	5	1.4	47.34	38.68	-
C	QPSK	QPSK	5	1.4	47.30	38.74	-
D	QPSK	QPSK	5	1.4	46.93	38.32	-
Total					53.24	44.60	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	3	47.54	35.81	-
B	QPSK	QPSK	5	3	47.69	35.97	-
C	QPSK	QPSK	5	3	47.69	35.92	-
D	QPSK	QPSK	5	3	47.26	35.46	-
Total					53.57	41.82	-

TEST REPORT

NR+IB-MC-1

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	5	47.27	38.93	-
B	QPSK	QPSK	5	5	47.43	39.03	-
C	QPSK	QPSK	5	5	47.35	38.95	-
D	QPSK	QPSK	5	5	47.34	38.96	-
Total					53.37	44.99	-

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	10	47.34	38.01	-
B	QPSK	QPSK	5	10	47.46	38.09	-
C	QPSK	QPSK	5	10	47.37	38.05	-
D	QPSK	QPSK	5	10	47.39	38.08	-
Total					53.41	44.08	-

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	15	47.29	37.94	-
B	QPSK	QPSK	5	15	47.42	38.07	-
C	QPSK	QPSK	5	15	47.36	38.02	-
D	QPSK	QPSK	5	15	47.39	38.06	-
Total					53.39	44.04	-

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	20	47.38	37.99	-
B	QPSK	QPSK	5	20	47.46	38.09	-
C	QPSK	QPSK	5	20	47.39	38.04	-
D	QPSK	QPSK	5	20	47.43	38.07	-
Total					53.44	44.07	-

TEST REPORT

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	5	47.34	38.87	-
B	QPSK	QPSK	10	5	47.43	38.97	-
C	QPSK	QPSK	10	5	47.37	38.93	-
D	QPSK	QPSK	10	5	47.41	38.94	-
Total					53.41	44.95	-

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	10	47.56	36.66	-
B	QPSK	QPSK	10	10	46.64	36.75	-
C	QPSK	QPSK	10	10	47.61	36.71	-
D	QPSK	QPSK	10	10	47.64	36.74	-
Total					53.40	42.74	-

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	15	47.61	35.17	-
B	QPSK	QPSK	10	15	47.68	35.23	-
C	QPSK	QPSK	10	15	47.62	35.19	-
D	QPSK	QPSK	10	15	47.67	35.23	-
Total					53.67	41.23	-

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	15	5	47.33	38.86	-
B	QPSK	QPSK	15	5	47.42	38.94	-
C	QPSK	QPSK	15	5	47.38	38.93	-
D	QPSK	QPSK	15	5	47.44	38.97	-
Total					53.41	44.95	-

TEST REPORT

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	15	10	47.57	36.67	-
B	QPSK	QPSK	15	10	47.65	36.77	-
C	QPSK	QPSK	15	10	47.61	36.76	-
D	QPSK	QPSK	15	10	47.66	36.77	-
Total					53.64	42.76	-

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	20	5	47.35	38.89	-
B	QPSK	QPSK	20	5	47.40	38.95	-
C	QPSK	QPSK	20	5	47.35	38.91	-
D	QPSK	QPSK	20	5	47.41	38.97	-
Total					53.40	44.95	-

NR+IB-MC-2

Antenna Port	NR Modulation	IB Modulation	NR Carrier Bandwidth (MHz)	IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	5	47.54	35.20	-
B	QPSK	QPSK	5	5	47.61	35.30	-
C	QPSK	QPSK	5	5	47.53	35.22	-
D	QPSK	QPSK	5	5	47.60	35.25	-
Total					53.59	41.26	-

W+LTE-MC-1

Antenna Port	WCDMA Modulation	LTE Modulation	W Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	1.4	47.54	41.78	-
B	QPSK	QPSK	5	1.4	47.75	41.84	-
C	QPSK	QPSK	5	1.4	47.37	41.81	-
D	QPSK	QPSK	5	1.4	47.70	41.91	-
Total					53.61	47.86	-

TEST REPORT

Antenna Port	WCDMA Modulation	LTE Modulation	W Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	3	47.69	40.42	-
B	QPSK	QPSK	5	3	47.83	40.54	-
C	QPSK	QPSK	5	3	47.66	40.58	-
D	QPSK	QPSK	5	3	47.77	40.46	-
Total					53.76	46.52	-

Antenna Port	WCDMA Modulation	LTE Modulation	W Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	5	47.65	39.22	-
B	QPSK	QPSK	5	5	47.74	39.34	-
C	QPSK	QPSK	5	5	47.73	39.37	-
D	QPSK	QPSK	5	5	47.73	39.26	-
Total					53.73	45.32	-

Antenna Port	WCDMA Modulation	LTE Modulation	W Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	10	47.68	39.17	-
B	QPSK	QPSK	5	10	47.79	39.31	-
C	QPSK	QPSK	5	10	47.74	39.32	-
D	QPSK	QPSK	5	10	47.74	39.23	-
Total					53.76	45.28	-

Antenna Port	WCDMA Modulation	LTE Modulation	W Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	15	47.73	39.19	-
B	QPSK	QPSK	5	15	47.75	39.27	-
C	QPSK	QPSK	5	15	47.76	39.31	-
D	QPSK	QPSK	5	15	47.87	39.22	-
Total					53.80	45.27	-

TEST REPORT

Antenna Port	WCDMA Modulation	LTE Modulation	W Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	20	47.73	39.18	-
B	QPSK	QPSK	5	20	47.77	39.26	-
C	QPSK	QPSK	5	20	47.78	39.29	-
D	QPSK	QPSK	5	20	47.79	39.27	-
Total					53.79	45.27	-

W+LTE-MC-2

Antenna Port	WCDMA Modulation	LTE Modulation	W Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	1.4	47.35	38.53	-
B	QPSK	QPSK	5	1.4	47.35	38.75	-
C	QPSK	QPSK	5	1.4	47.37	38.73	-
D	QPSK	QPSK	5	1.4	47.42	38.69	-
Total					53.39	44.70	-

Antenna Port	WCDMA Modulation	LTE Modulation	W Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	3	47.31	35.48	-
B	QPSK	QPSK	5	3	47.44	35.57	-
C	QPSK	QPSK	5	3	47.45	35.58	-
D	QPSK	QPSK	5	3	47.48	35.58	-
Total					53.44	41.57	-

W+NR-MC-1

Antenna Port	WCDMA Modulation	NR Modulation	W Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	5	47.71	39.24	-
B	QPSK	QPSK	5	5	47.57	39.38	-
C	QPSK	QPSK	5	5	47.63	39.31	-
D	QPSK	QPSK	5	5	47.66	39.28	-
Total					53.66	45.32	-

TEST REPORT

Antenna Port	WCDMA Modulation	NR Modulation	W Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	10	47.74	39.19	-
B	QPSK	QPSK	5	10	47.64	39.30	-
C	QPSK	QPSK	5	10	47.68	39.28	-
D	QPSK	QPSK	5	10	47.73	39.27	-
Total					53.72	45.28	-

Antenna Port	WCDMA Modulation	NR Modulation	W Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	15	47.74	39.29	-
B	QPSK	QPSK	5	15	47.63	39.16	-
C	QPSK	QPSK	5	15	47.68	39.24	-
D	QPSK	QPSK	5	15	47.73	39.23	-
Total					53.72	45.25	-

Antenna Port	WCDMA Modulation	NR Modulation	W Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	20	47.66	39.15	-
B	QPSK	QPSK	5	20	47.75	39.27	-
C	QPSK	QPSK	5	20	47.65	39.26	-
D	QPSK	QPSK	5	20	47.70	39.23	-
Total					53.71	45.25	-

W+NR-MC-2

Antenna Port	WCDMA Modulation	NR Modulation	W Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	5	47.34	35.06	-
B	QPSK	QPSK	5	5	47.45	35.09	-
C	QPSK	QPSK	5	5	47.37	35.06	-
D	QPSK	QPSK	5	5	47.37	35.07	-
Total					53.40	41.09	-

TEST REPORT

LTE+SA-MC-1

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	1.4	0.2	45.83	42.58	-
B	QPSK	QPSK	1.4	0.2	45.89	42.62	-
C	QPSK	QPSK	1.4	0.2	45.90	42.61	-
D	QPSK	QPSK	1.4	0.2	45.92	42.64	-
Total					51.91	48.63	-

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	3	0.2	45.85	42.58	-
B	QPSK	QPSK	3	0.2	45.87	42.63	-
C	QPSK	QPSK	3	0.2	45.86	42.62	-
D	QPSK	QPSK	3	0.2	45.90	42.61	-
Total					51.89	48.63	-

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	0.2	47.13	42.36	-
B	QPSK	QPSK	5	0.2	47.13	42.26	-
C	QPSK	QPSK	5	0.2	47.10	42.29	-
D	QPSK	QPSK	5	0.2	47.24	42.44	-
Total					53.17	48.36	-

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	0.2	47.19	42.29	-
B	QPSK	QPSK	10	0.2	47.21	42.23	-
C	QPSK	QPSK	10	0.2	47.18	42.22	-
D	QPSK	QPSK	10	0.2	47.29	42.37	-
Total					53.24	48.30	-

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	15	0.2	47.65	42.59	-
B	QPSK	QPSK	15	0.2	47.71	42.69	-
C	QPSK	QPSK	15	0.2	47.55	42.53	-
D	QPSK	QPSK	15	0.2	47.72	42.73	-
Total					53.68	48.66	-

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	20	0.2	47.60	42.50	-
B	QPSK	QPSK	20	0.2	47.68	42.57	-
C	QPSK	QPSK	20	0.2	47.48	42.45	-
D	QPSK	QPSK	20	0.2	47.68	42.62	-
Total					53.63	48.56	-

LTE+SA-MC-2

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	1.4	0.2	47.50	39.96	-
B	QPSK	QPSK	1.4	0.2	47.58	40.20	-
C	QPSK	QPSK	1.4	0.2	47.49	40.11	-
D	QPSK	QPSK	1.4	0.2	47.53	40.16	-
Total					53.55	46.13	-

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	3	0.2	47.82	40.36	-
B	QPSK	QPSK	3	0.2	47.93	40.49	-
C	QPSK	QPSK	3	0.2	47.86	40.44	-
D	QPSK	QPSK	3	0.2	47.88	40.45	-
Total					53.89	46.46	-

TEST REPORT

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	0.2	47.49	39.95	-
B	QPSK	QPSK	5	0.2	47.61	40.14	-
C	QPSK	QPSK	5	0.2	47.53	40.08	-
D	QPSK	QPSK	5	0.2	47.59	40.08	-
Total					53.58	46.08	-

LTE+SA-MC-3

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	1.4	0.2	47.51	40.08	-
B	QPSK	QPSK	1.4	0.2	47.63	40.18	-
C	QPSK	QPSK	1.4	0.2	40.18	40.15	-
D	QPSK	QPSK	1.4	0.2	47.54	40.44	-
Total					52.59	46.24	-

Antenna Port	LTE Modulation	SA Modulation	LTE Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	3	0.2	47.85	40.37	-
B	QPSK	QPSK	3	0.2	47.98	40.49	-
C	QPSK	QPSK	3	0.2	47.90	40.42	-
D	QPSK	QPSK	3	0.2	47.87	40.38	-
Total					53.92	46.44	-

W+SA-MC-1

Antenna Port	WCDMA Modulation	SA Modulation	W Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	0.2	47.11	42.31	-
B	QPSK	QPSK	5	0.2	47.07	42.18	-
C	QPSK	QPSK	5	0.2	47.03	42.14	-
D	QPSK	QPSK	5	0.2	47.18	42.32	-
Total					53.12	48.26	-

TEST REPORT

W+SA-MC-2

Antenna Port	WCDMA Modulation	SA Modulation	W Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	0.2	46.69	39.85	-
B	QPSK	QPSK	5	0.2	47.00	40.09	-
C	QPSK	QPSK	5	0.2	46.54	40.02	-
D	QPSK	QPSK	5	0.2	47.04	40.16	-
Total					52.84	46.05	-

W+SA-MC-3

Antenna Port	WCDMA Modulation	SA Modulation	W Carrier Bandwidth (MHz)	SA Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	0.2	46.72	40.16	-
B	QPSK	QPSK	5	0.2	46.96	40.15	-
C	QPSK	QPSK	5	0.2	46.40	39.82	-
D	QPSK	QPSK	5	0.2	47.05	40.41	-
Total					52.81	46.16	-

W+L+NR-MC-1

Antenna Port	LTE Modulation	NR Modulation	LTE Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	1.4	5	47.31	41.35	-
B	QPSK	QPSK	1.4	5	47.27	41.47	-
C	QPSK	QPSK	1.4	5	47.57	41.46	-
D	QPSK	QPSK	1.4	5	47.43	41.55	-
Total					53.42	47.48	-

Antenna Port	LTE Modulation	NR Modulation	LTE Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	3	5	47.17	38.12	-
B	QPSK	QPSK	3	5	47.28	38.41	-
C	QPSK	QPSK	3	5	47.21	38.34	-
D	QPSK	QPSK	3	5	47.27	38.39	-
Total					53.25	44.34	-

TEST REPORT

Antenna Port	LTE Modulation	NR Modulation	LTE Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	5	47.39	37.30	-
B	QPSK	QPSK	5	5	47.45	37.28	-
C	QPSK	QPSK	5	5	47.46	37.30	-
D	QPSK	QPSK	5	5	47.45	37.43	-
Total					53.46	43.35	-

Antenna Port	LTE Modulation	NR Modulation	LTE Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	5	47.38	37.26	-
B	QPSK	QPSK	10	5	47.52	37.30	-
C	QPSK	QPSK	10	5	47.48	37.29	-
D	QPSK	QPSK	10	5	47.46	37.32	-
Total					53.48	43.31	-

Antenna Port	LTE Modulation	NR Modulation	LTE Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	1.4	10	47.39	41.33	-
B	QPSK	QPSK	1.4	10	47.31	41.51	-
C	QPSK	QPSK	1.4	10	47.54	41.40	-
D	QPSK	QPSK	1.4	10	47.43	41.52	-
Total					53.44	47.46	-

Antenna Port	LTE Modulation	NR Modulation	LTE Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	3	10	47.13	38.13	-
B	QPSK	QPSK	3	10	47.28	38.35	-
C	QPSK	QPSK	3	10	47.27	38.35	-
D	QPSK	QPSK	3	10	47.30	38.37	-
Total					53.27	44.32	-

TEST REPORT

Antenna Port	LTE Modulation	NR Modulation	LTE Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	10	47.31	37.24	-
B	QPSK	QPSK	5	10	47.49	37.29	-
C	QPSK	QPSK	5	10	47.49	37.30	-
D	QPSK	QPSK	5	10	47.45	37.31	-
Total					53.46	43.31	-

Antenna Port	LTE Modulation	NR Modulation	LTE Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	10	47.39	37.20	-
B	QPSK	QPSK	10	10	47.45	37.27	-
C	QPSK	QPSK	10	10	47.50	37.30	-
D	QPSK	QPSK	10	10	47.48	37.29	-
Total					53.48	43.29	-

NR+L+SA-MC-1

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	1.4	46.78	43.27	-
B	QPSK	QPSK	5	1.4	46.90	43.35	-
C	QPSK	QPSK	5	1.4	46.83	43.30	-
D	QPSK	QPSK	5	1.4	46.91	43.91	-
Total					52.88	49.49	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	3	47.01	42.61	-
B	QPSK	QPSK	5	3	47.12	42.65	-
C	QPSK	QPSK	5	3	47.06	42.58	-
D	QPSK	QPSK	5	3	47.12	42.68	-
Total					53.10	48.65	-

TEST REPORT

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	5	47.00	42.32	-
B	QPSK	QPSK	5	5	47.11	42.41	-
C	QPSK	QPSK	5	5	47.02	42.34	-
D	QPSK	QPSK	5	5	47.11	42.45	-
Total					53.08	48.40	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	10	47.05	42.17	-
B	QPSK	QPSK	5	10	47.14	42.22	-
C	QPSK	QPSK	5	10	47.04	42.13	-
D	QPSK	QPSK	5	10	47.16	42.29	-
Total					53.12	48.22	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	1.4	46.85	43.29	-
B	QPSK	QPSK	10	1.4	46.93	43.34	-
C	QPSK	QPSK	10	1.4	46.79	43.27	-
D	QPSK	QPSK	10	1.4	46.96	43.40	-
Total					52.90	49.35	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	3	47.08	42.59	-
B	QPSK	QPSK	10	3	47.18	42.64	-
C	QPSK	QPSK	10	3	47.10	42.57	-
D	QPSK	QPSK	10	3	47.18	42.72	-
Total					53.16	48.65	-

TEST REPORT

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	5	47.08	42.37	-
B	QPSK	QPSK	10	5	47.14	42.39	-
C	QPSK	QPSK	10	5	47.09	42.32	-
D	QPSK	QPSK	10	5	47.16	42.46	-
Total					53.14	48.41	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	10	47.54	42.60	-
B	QPSK	QPSK	10	10	47.52	42.64	-
C	QPSK	QPSK	10	10	47.57	42.57	-
D	QPSK	QPSK	10	10	47.62	42.70	-
Total					53.58	48.65	-

NR+L+SA-MC-2

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	1.4	47.40	41.02	-
B	QPSK	QPSK	5	1.4	47.51	41.17	-
C	QPSK	QPSK	5	1.4	47.48	41.16	-
D	QPSK	QPSK	5	1.4	47.48	39.97	-
Total					53.49	46.88	-

Antenna Port	NR Modulation	LTE Modulation	NR Carrier Bandwidth (MHz)	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	3	47.43	40.41	-
B	QPSK	QPSK	5	3	47.50	40.58	-
C	QPSK	QPSK	5	3	47.50	40.57	-
D	QPSK	QPSK	5	3	47.54	40.56	-
Total					53.51	46.55	-

TEST REPORT

SA+L+W-MC-1

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	1.4	47.08	42.22	-
B	QPSK	1.4	47.20	42.33	-
C	QPSK	1.4	47.13	42.27	-
D	QPSK	1.4	47.17	42.28	-
Total			53.17	48.30	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	3	47.27	42.39	-
B	QPSK	3	47.40	42.52	-
C	QPSK	3	47.33	42.46	-
D	QPSK	3	47.38	42.48	-
Total			53.37	48.48	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	5	47.11	42.13	-
B	QPSK	5	47.26	42.28	-
C	QPSK	5	47.22	42.25	-
D	QPSK	5	47.19	42.21	-
Total			53.22	48.24	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	10	47.16	42.10	-
B	QPSK	10	47.34	42.30	-
C	QPSK	10	47.26	42.22	-
D	QPSK	10	42.25	42.20	-
Total			52.46	48.23	-

SA+L+W-MC-2

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	1.4	47.53	40.06	-
B	QPSK	1.4	47.66	40.18	-
C	QPSK	1.4	47.58	40.13	-
D	QPSK	1.4	47.58	40.11	-
Total			53.61	46.14	-

TEST REPORT

LTE+GSM-MC-1

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	1.4	45.74	42.44	-
B	QPSK	1.4	45.62	42.62	-
C	QPSK	1.4	45.86	42.65	-
D	QPSK	1.4	45.92	42.63	-
Total			51.81	48.61	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	3	45.77	42.49	-
B	QPSK	3	45.61	42.64	-
C	QPSK	3	45.92	42.66	-
D	QPSK	3	45.88	42.63	-
Total			51.82	48.63	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	5	47.65	42.77	-
B	QPSK	5	47.67	42.73	-
C	QPSK	5	47.81	42.61	-
D	QPSK	5	47.88	42.72	-
Total			53.77	48.73	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	10	47.86	42.68	-
B	QPSK	10	47.62	42.65	-
C	QPSK	10	47.82	42.65	-
D	QPSK	10	47.96	42.71	-
Total			53.84	48.69	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	15	47.81	42.97	-
B	QPSK	15	47.73	42.84	-
C	QPSK	15	47.72	42.70	-
D	QPSK	15	47.89	42.77	-
Total			53.81	48.84	-

TEST REPORT

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	20	47.99	43.04	-
B	QPSK	20	47.83	42.78	-
C	QPSK	20	47.75	42.70	-
D	QPSK	20	47.93	42.84	-
Total			53.90	48.86	-

LTE+GSM-MC-2

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	1.4	46.98	41.49	-
B	QPSK	1.4	47.03	41.65	-
C	QPSK	1.4	47.05	41.68	-
D	QPSK	1.4	46.99	41.59	-
Total			53.03	47.62	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	3	47.35	41.84	-
B	QPSK	3	47.39	42.00	-
C	QPSK	3	47.26	41.94	-
D	QPSK	3	47.38	41.95	-
Total			53.37	47.95	-

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
			Channel position M		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	5	47.88	42.24	-
B	QPSK	5	47.81	42.43	-
C	QPSK	5	47.75	42.23	-
D	QPSK	5	47.86	42.30	-
Total			53.85	48.32	-

TEST REPORT

W+GSM-MC-1

Antenna Port	W Modulation	GSM Modulation	W Carrier Bandwidth (MHz)	GSM Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	0.2	47.85	43.02	-
B	QPSK	QPSK	5	0.2	47.70	42.96	-
C	QPSK	QPSK	5	0.2	47.90	42.83	-
D	QPSK	QPSK	5	0.2	47.98	42.85	-
Total					53.88	48.94	-

W+GSM-MC-2

Antenna Port	W Modulation	GSM Modulation	W Carrier Bandwidth (MHz)	GSM Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	0.2	47.74	42.42	-
B	QPSK	QPSK	5	0.2	47.92	42.43	-
C	QPSK	QPSK	5	0.2	47.71	42.30	-
D	QPSK	QPSK	5	0.2	48.10	42.45	-
Total					53.89	48.42	-

NR ESS IB-1C

Antenna Port	NR ESS IB Modulation	NR ESS IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)	Power (dBm)	Power (dBm/MHz)	PAR (dB)	Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	10	47.46	38.88	8.08	47.52	38.83	8.10	47.36	38.70	8.07
B	QPSK	10	47.36	38.62	8.14	47.39	38.64	8.12	47.51	38.82	8.05
C	QPSK	10	47.74	40.85	8.08	47.63	40.76	8.08	47.77	40.72	8.07
D	QPSK	10	48.03	41.12	8.08	47.96	39.05	8.06	47.78	39.03	8.04
Total			53.68	46.03	-	53.65	45.43	-	53.63	45.42	-

Antenna Port	NR ESS IB Modulation	NR ESS IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm/MHz)	PAR (dB)	Power (dBm)	Power (dBm/MHz)	PAR (dB)	Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	15	47.12	38.00	8.29	47.32	38.32	8.26	47.31	38.28	8.27
B	QPSK	15	47.38	38.29	8.26	47.39	38.33	8.26	47.36	38.37	8.22
C	QPSK	15	47.91	40.70	8.25	47.78	40.71	8.24	47.75	40.71	8.25
D	QPSK	15	47.97	40.75	8.27	47.93	40.73	8.24	47.81	40.75	8.25
Total			53.63	45.65	-	53.63	45.71	-	53.58	45.71	-

Antenna Port	NR ESS IB Modulation	NR ESS IB Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	20	47.41	38.15	8.26	47.43	38.12	8.23	47.45	38.25	8.22
B	QPSK	20	47.44	38.12	8.31	47.44	38.13	8.30	47.47	38.23	8.23
C	QPSK	20	48.08	40.75	8.28	48.05	40.75	8.29	47.99	40.70	8.22
D	QPSK	20	48.04	40.69	8.27	47.94	40.64	8.28	47.92	40.66	8.27
Total			53.77	45.64	-	53.74	45.62	-	53.74	45.65	-

G+L+NR-MC-1

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	1.4	5	47.55	42.80	-
B	QPSK	QPSK	1.4	5	47.38	42.66	-
C	QPSK	QPSK	1.4	5	47.44	42.65	-
D	QPSK	QPSK	1.4	5	47.62	42.82	-
Total					53.52	48.75	-

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	3	5	47.69	42.55	-
B	QPSK	QPSK	3	5	47.23	42.59	-
C	QPSK	QPSK	3	5	47.37	42.58	-
D	QPSK	QPSK	3	5	47.67	42.63	-
Total					53.52	48.61	-

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	5	47.49	42.89	-
B	QPSK	QPSK	5	5	47.57	42.76	-
C	QPSK	QPSK	5	5	47.59	42.64	-
D	QPSK	QPSK	5	5	47.65	42.98	-
Total					53.60	48.84	-

TEST REPORT

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	5	47.69	42.85	-
B	QPSK	QPSK	10	5	47.52	42.80	-
C	QPSK	QPSK	10	5	47.75	42.74	-
D	QPSK	QPSK	10	5	47.74	42.83	-
Total					53.70	48.83	-

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	1.4	10	47.65	42.85	-
B	QPSK	QPSK	1.4	10	47.48	42.72	-
C	QPSK	QPSK	1.4	10	47.64	42.82	-
D	QPSK	QPSK	1.4	10	47.75	42.85	-
Total					53.65	48.83	-

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	3	10	47.46	42.60	-
B	QPSK	QPSK	3	10	47.57	42.64	-
C	QPSK	QPSK	3	10	47.43	42.68	-
D	QPSK	QPSK	3	10	47.61	42.71	-
Total					53.54	48.68	-

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	5	10	47.76	42.95	-
B	QPSK	QPSK	5	10	47.53	42.86	-
C	QPSK	QPSK	5	10	47.63	42.75	-
D	QPSK	QPSK	5	10	47.67	42.66	-
Total					53.67	48.83	-

TEST REPORT

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	10	10	47.79	43.18	-
B	QPSK	QPSK	10	10	47.73	43.01	-
C	QPSK	QPSK	10	10	47.74	43.17	-
D	QPSK	QPSK	10	10	48.09	43.14	-
Total					53.86	49.15	-

G+L+NR-MC-2

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	1.4	5	47.36	41.50	-
B	QPSK	QPSK	1.4	5	47.24	41.46	-
C	QPSK	QPSK	1.4	5	47.38	41.41	-
D	QPSK	QPSK	1.4	5	47.40	41.46	-
Total					53.37	47.48	-

Antenna Port	L Modulation	NR Modulation	L Carrier Bandwidth (MHz)	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)		
					Channel position M		
					Power (dBm)	Power (dBm/MHz)	PAR (dB)
A	QPSK	QPSK	3	5	47.70	41.85	-
B	QPSK	QPSK	3	5	47.67	41.70	-
C	QPSK	QPSK	3	5	47.72	41.84	-
D	QPSK	QPSK	3	5	47.82	41.85	-
Total					53.75	47.83	-

TEST REPORT**4 Occupied Bandwidth****Test result: Pass****4.1 Measurement Procedure**

The EUT was set to transmit at maximum power and testing was carried out on bottom, middle and top channels. Using the Occupied Bandwidth measurement function in the spectrum analyzer, the 26dB bandwidth was measured in accordance with FCC KDB 971168 D01 Clause 4.2.

The measurement method is from KDB 971168 4.2:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log(\text{OBW} / \text{RBW})$ below the reference level.
- d) Set the detection mode to peak, and the trace mode to max hold.
- e) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

TEST REPORT

4.2 Measurement result

W-1C

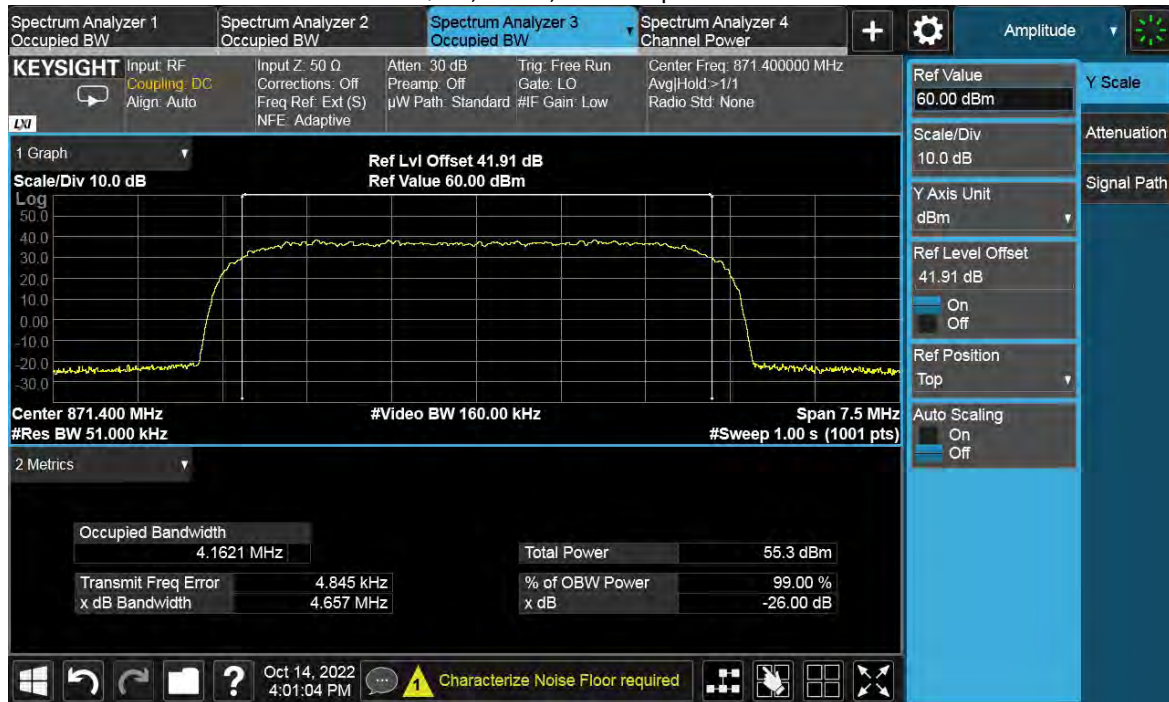
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	5MHz	4.1621	4.1575	4.1588

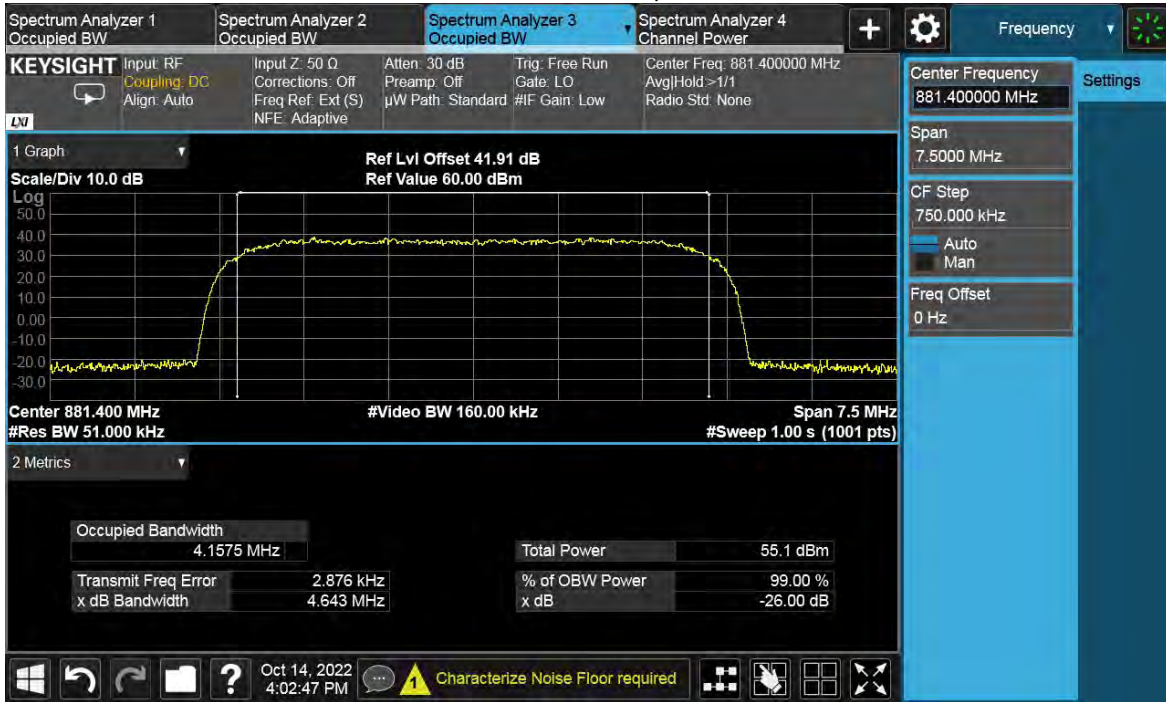
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	5MHz	4.657	4.643	4.652

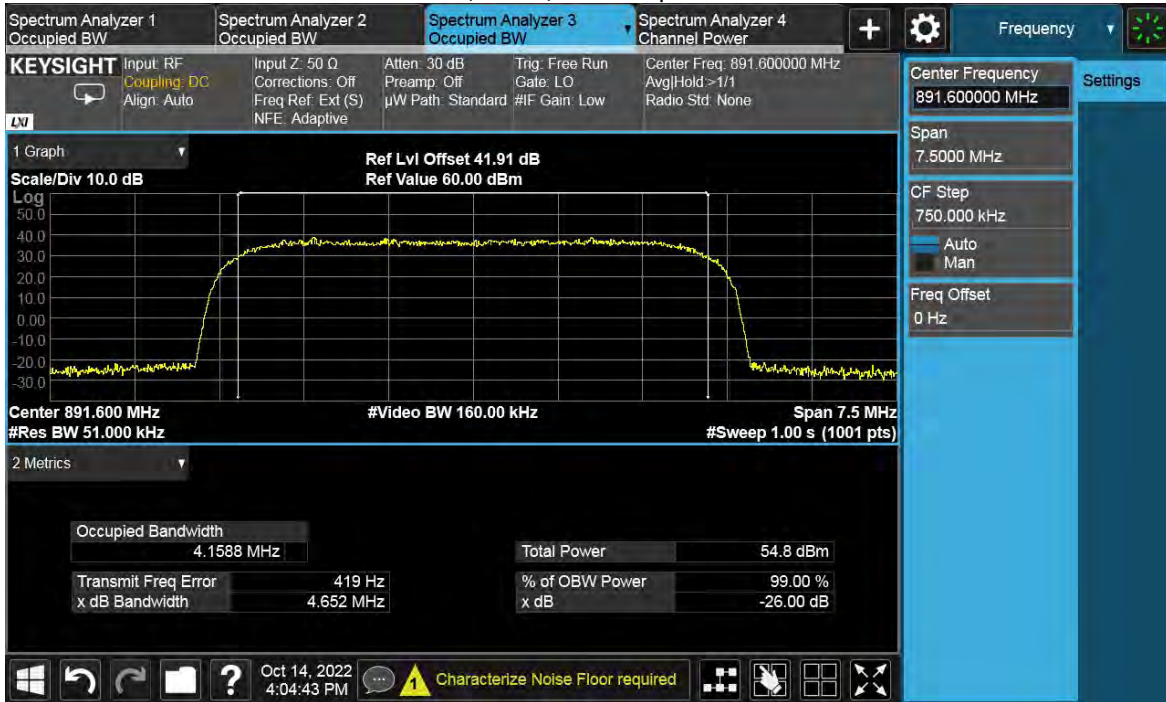
QPSK, 5MHz, Channel position B



QPSK, 5MHz, Channel position M



QPSK, 5MHz, Channel position T



TEST REPORT

NR- 1C

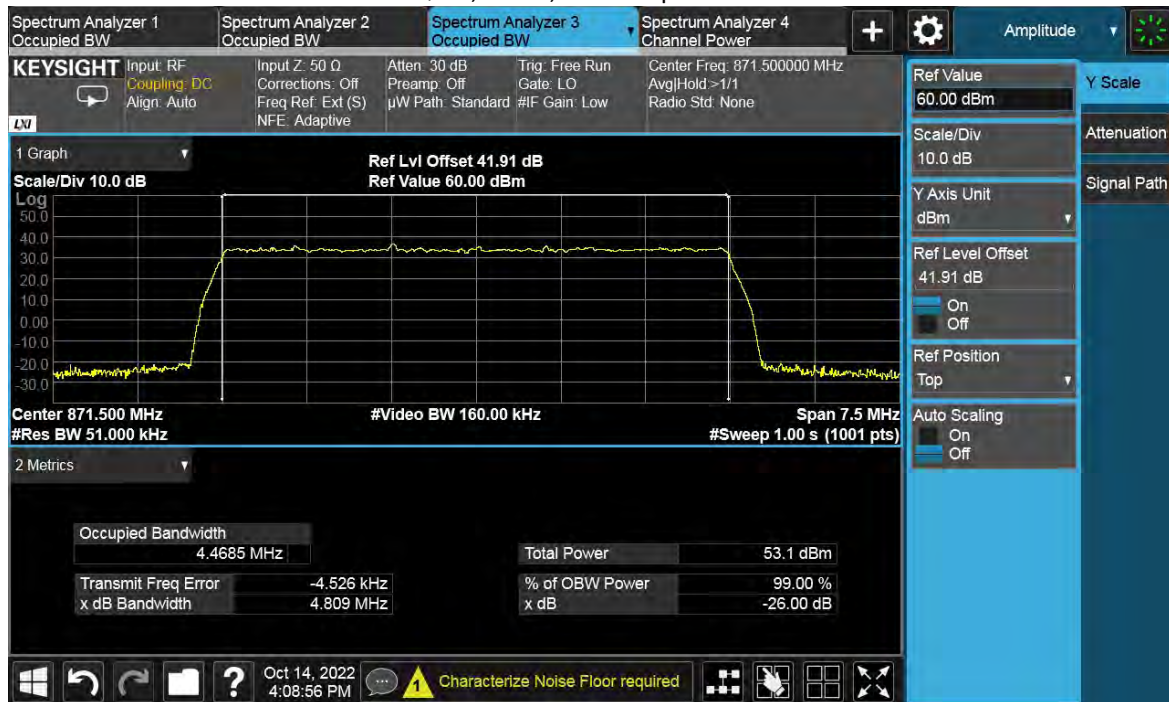
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	5MHz	4.4685	4.4686	4.4638
D	QPSK	10MHz	9.2753	9.2698	9.2775
D	QPSK	15MHz	14.128	14.130	14.131
D	QPSK	20MHz	18.909	18.899	18.900

-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	5MHz	4.809	4.807	4.797
D	QPSK	10MHz	9.783	9.773	9.786
D	QPSK	15MHz	14.74	14.76	14.77
D	QPSK	20MHz	19.77	19.78	19.79

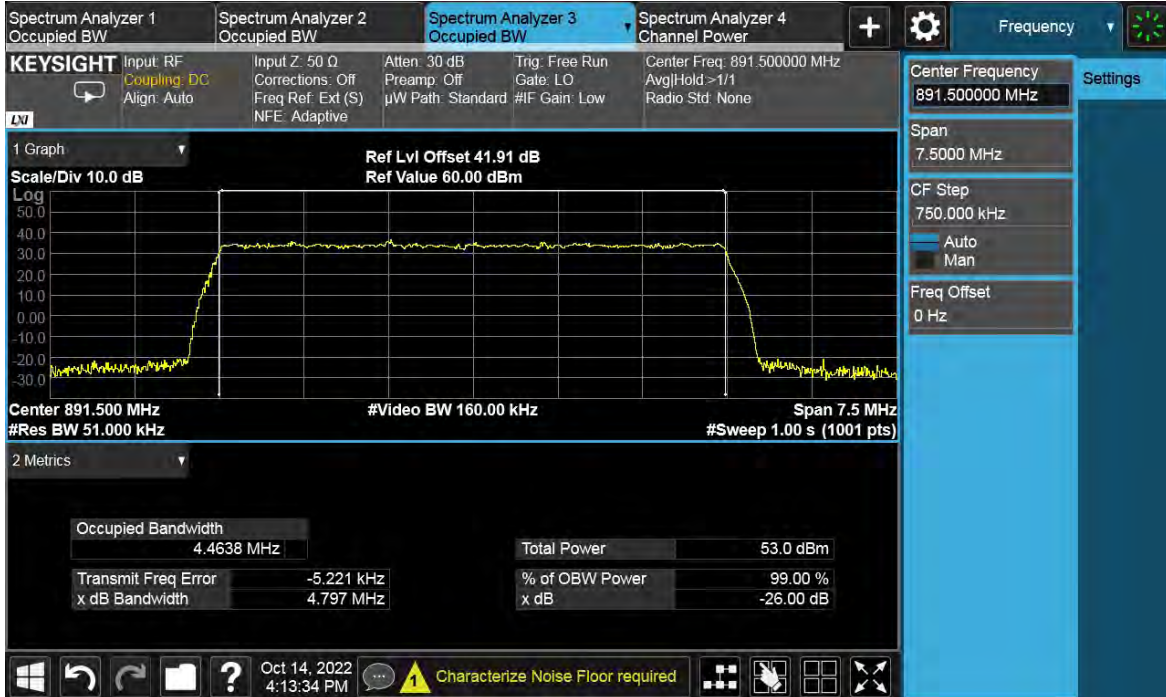
QPSK, 5MHz, Channel position B



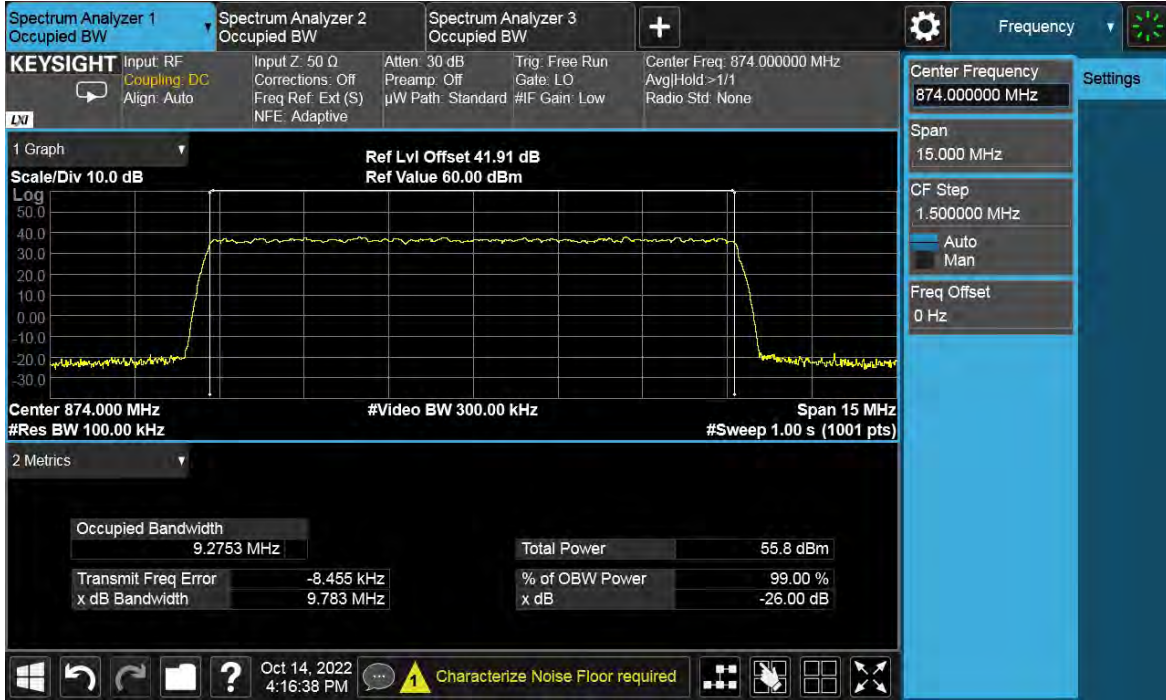
QPSK, 5MHz, Channel position M



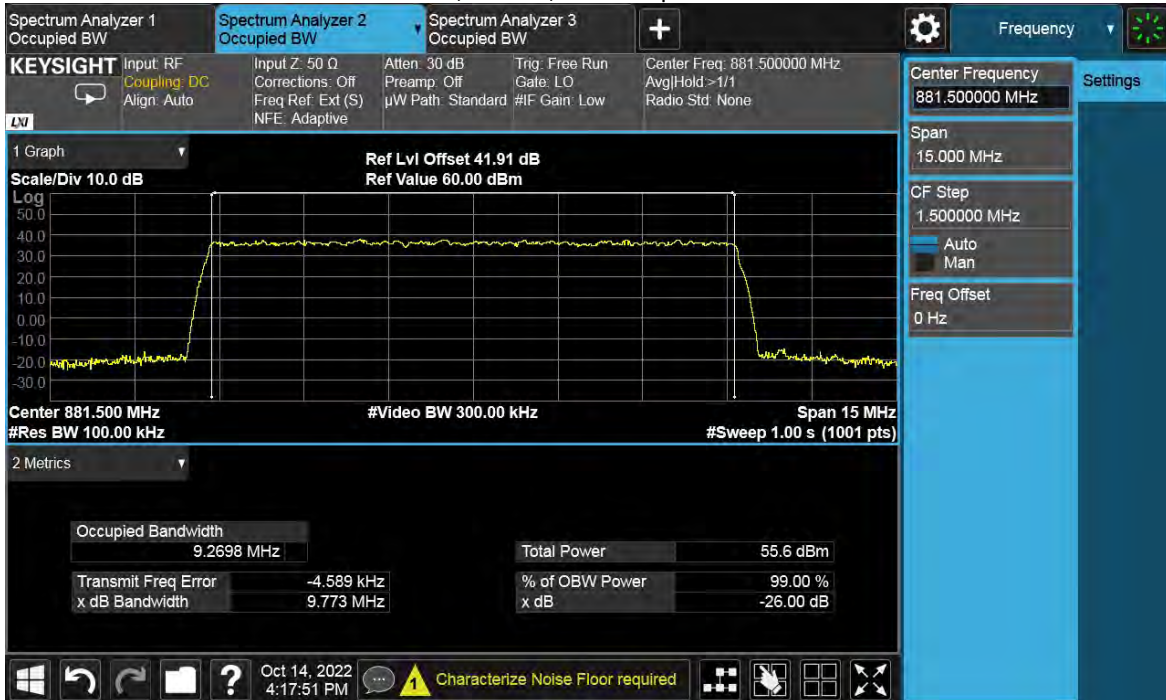
QPSK, 5MHz, Channel position T



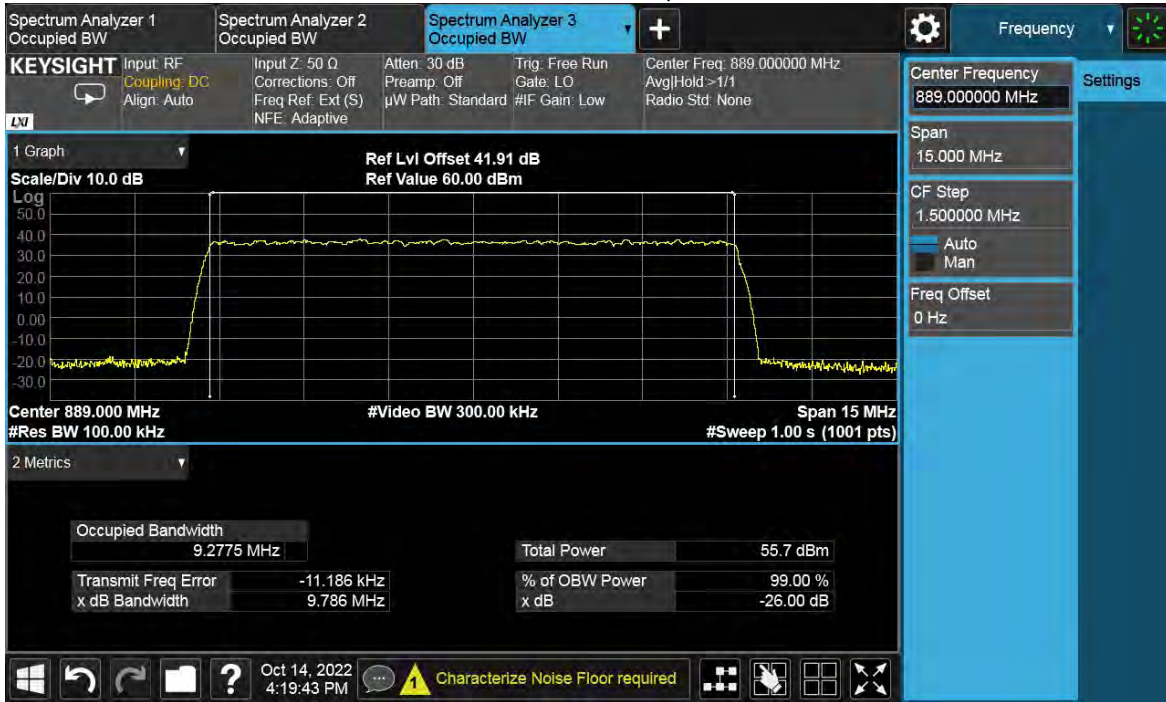
QPSK, 10MHz, Channel position B



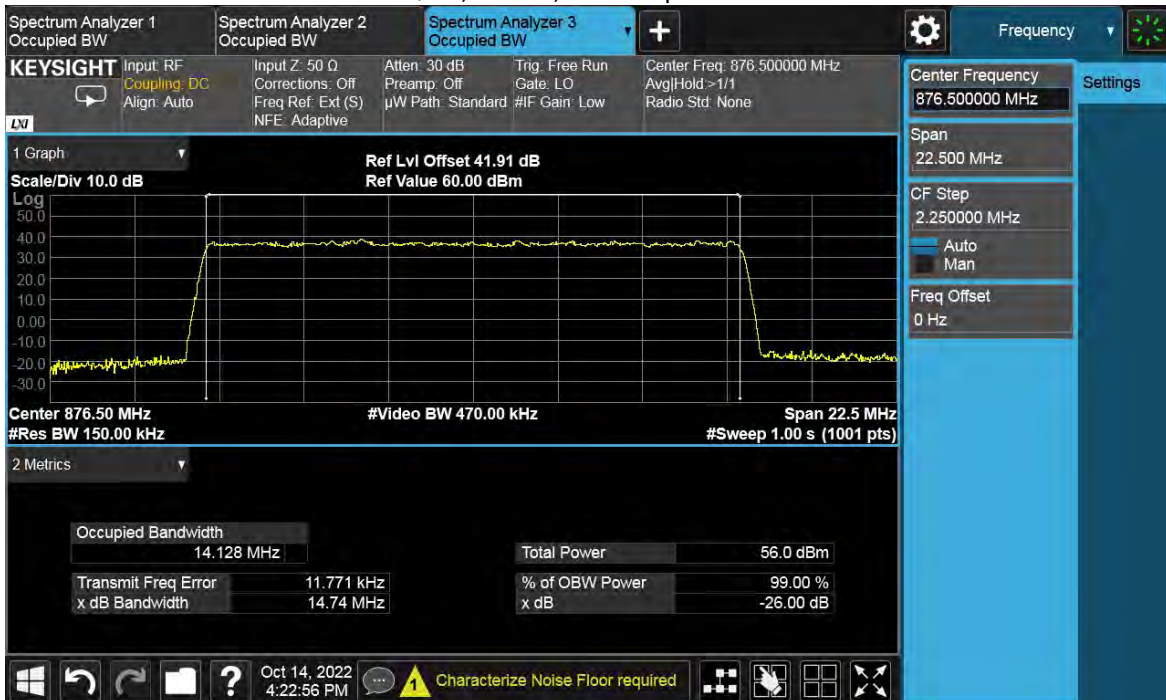
QPSK, 10MHz, Channel position M



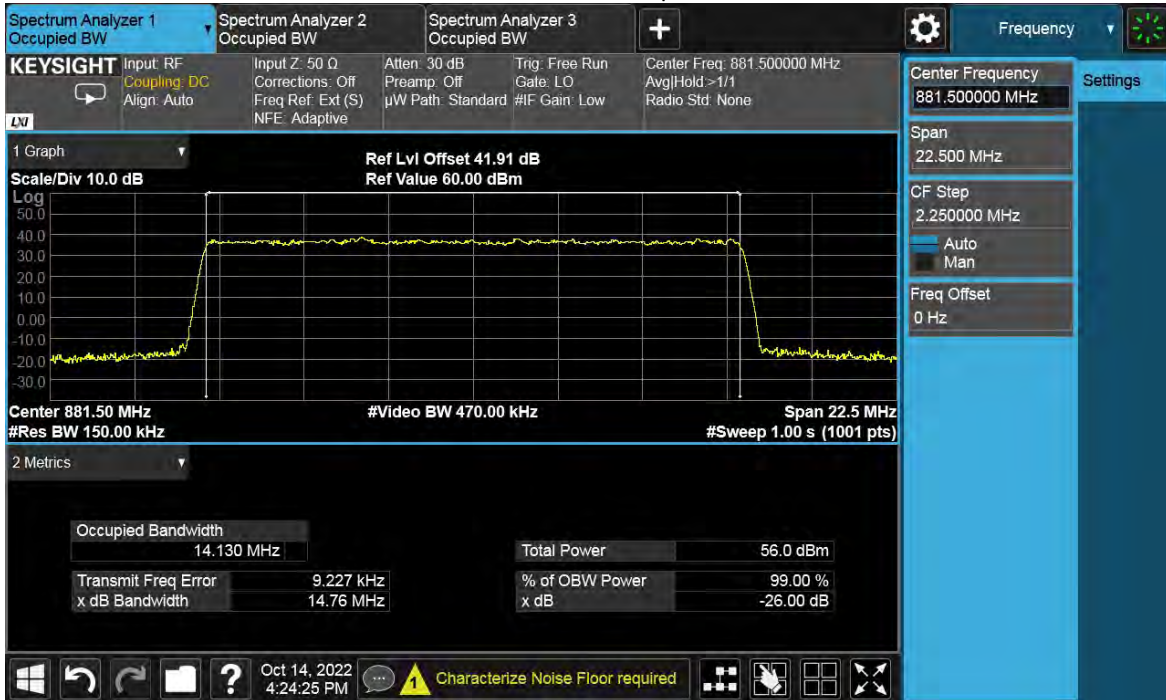
QPSK, 10MHz, Channel position T



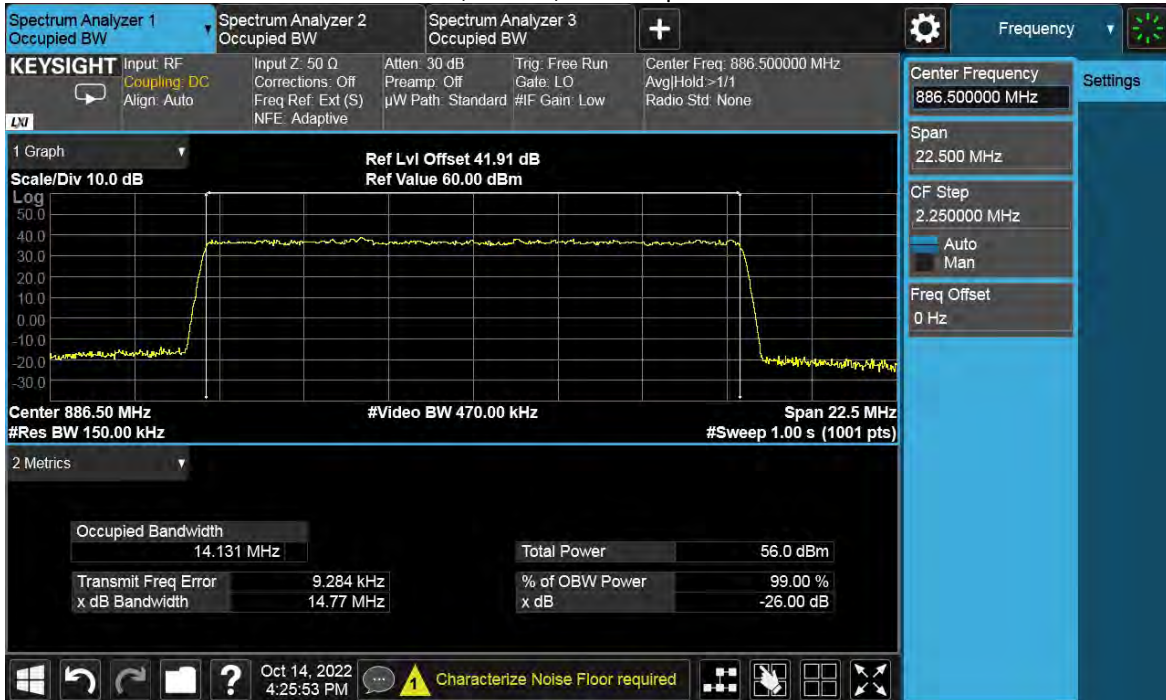
QPSK, 15MHz, Channel position B



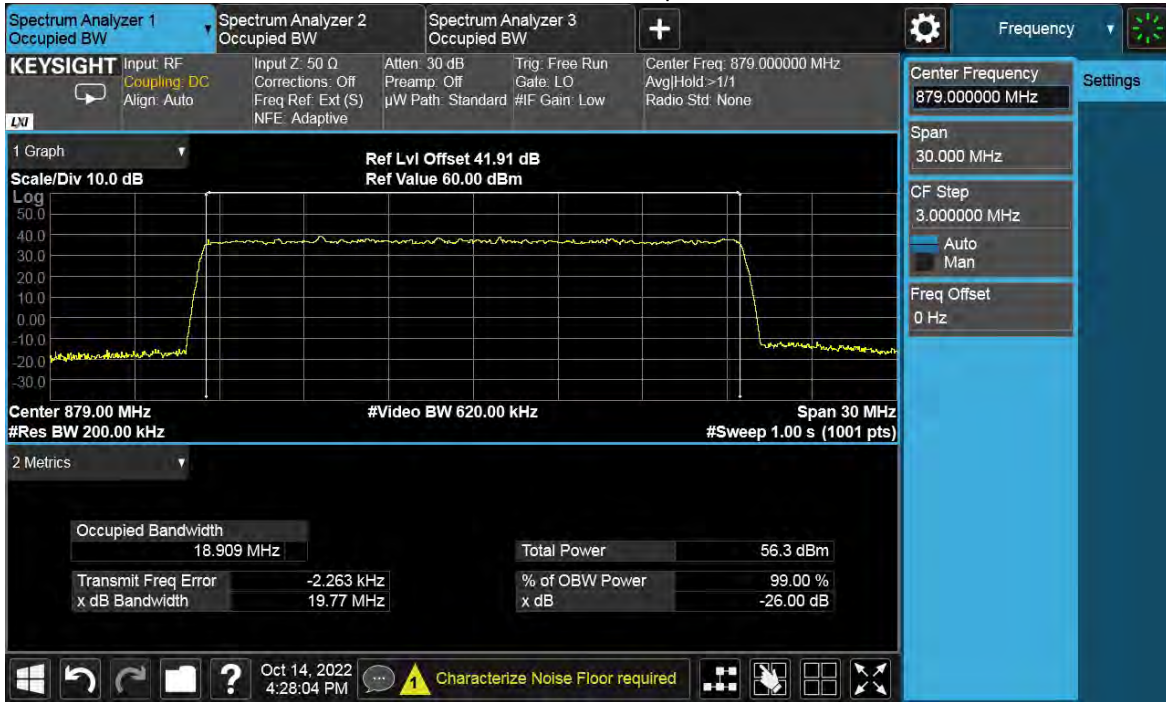
QPSK, 15MHz, Channel position M



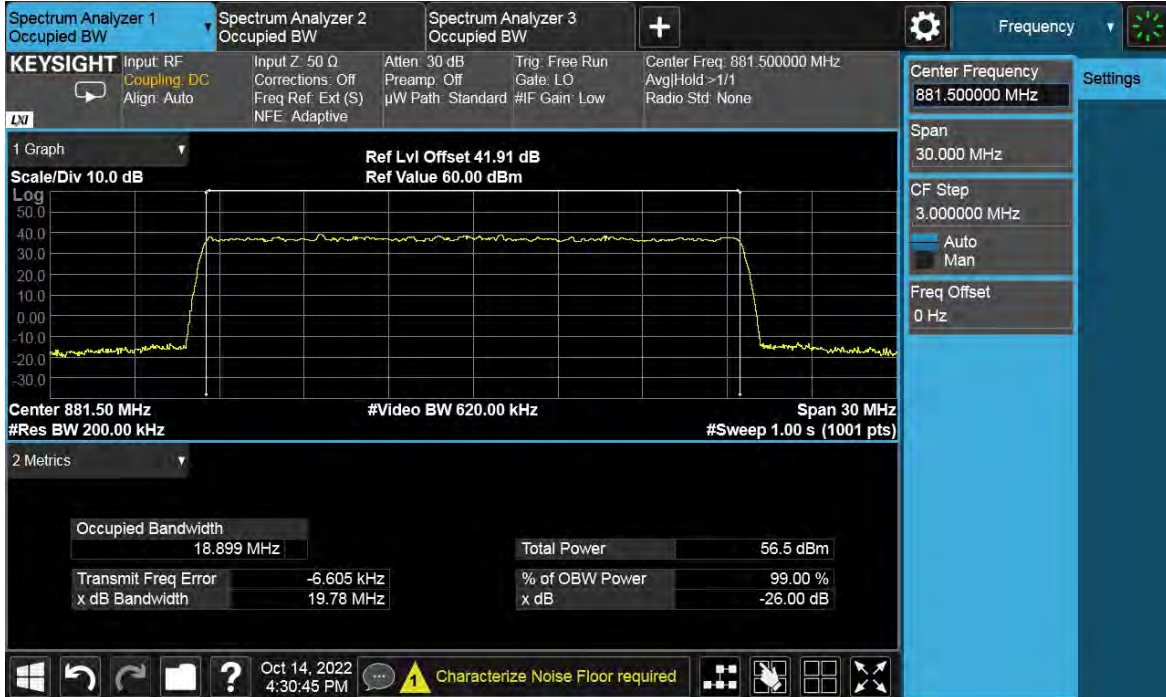
QPSK, 15MHz, Channel position T



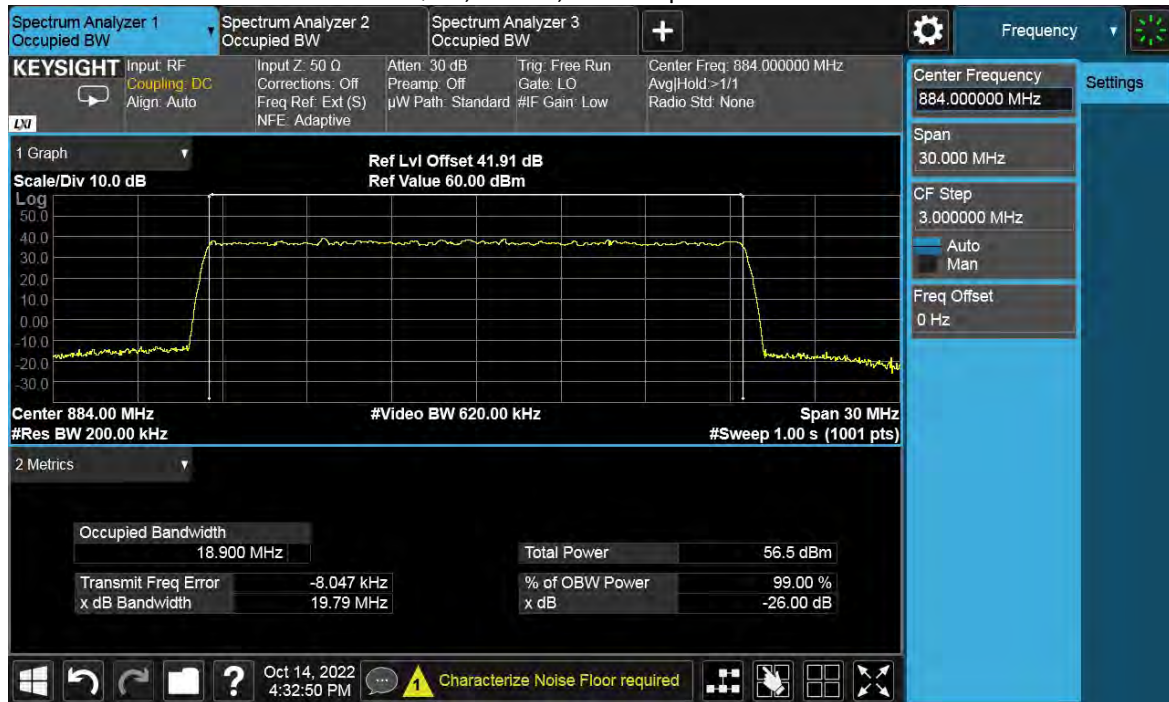
QPSK, 20MHz, Channel position B



QPSK, 20MHz, Channel position M



QPSK, 20MHz, Channel position T



LTE-1C

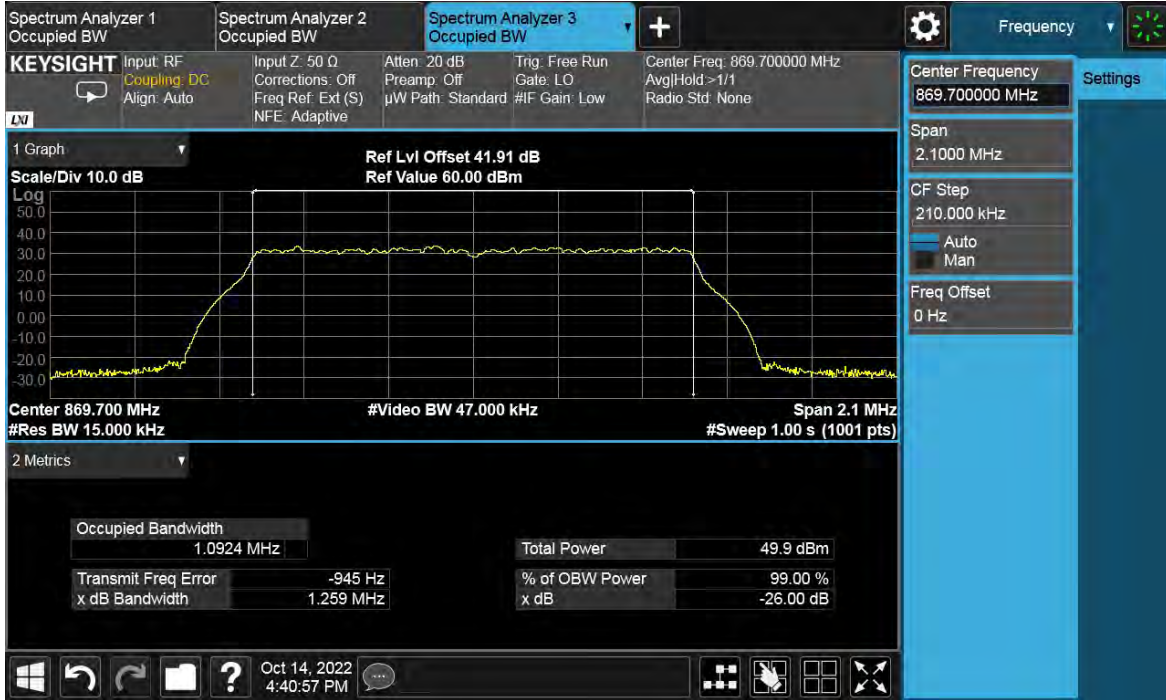
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	1.4MHz	1.0924	1.0920	1.0922
D	QPSK	3MHz	2.6954	2.6948	2.6937
D	QPSK	5MHz	4.4818	4.4815	4.4810
D	QPSK	10MHz	8.9557	8.9465	8.9520
D	QPSK	15MHz	13.408	13.412	13.409
D	QPSK	20MHz	17.894	17.893	17.892

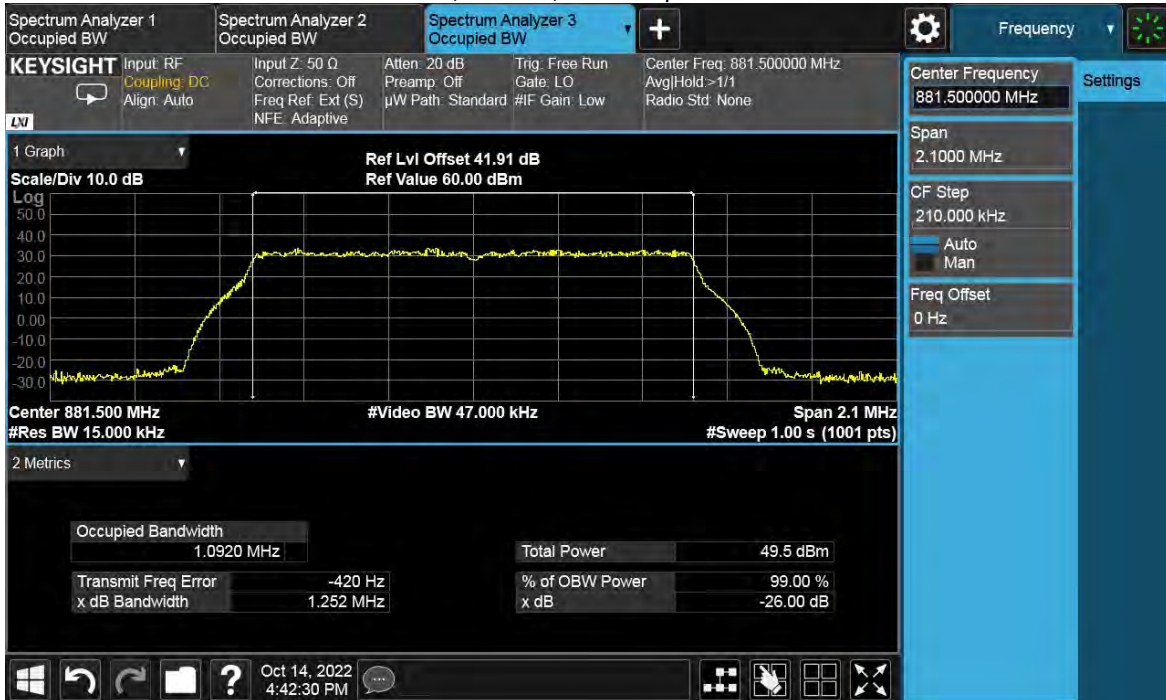
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	1.4MHz	1.259	1.252	1.255
D	QPSK	3MHz	2.896	2.893	2.892
D	QPSK	5MHz	4.815	4.814	4.812
D	QPSK	10MHz	9.634	9.624	9.633
D	QPSK	15MHz	14.40	14.41	14.39
D	QPSK	20MHz	19.25	19.25	19.24

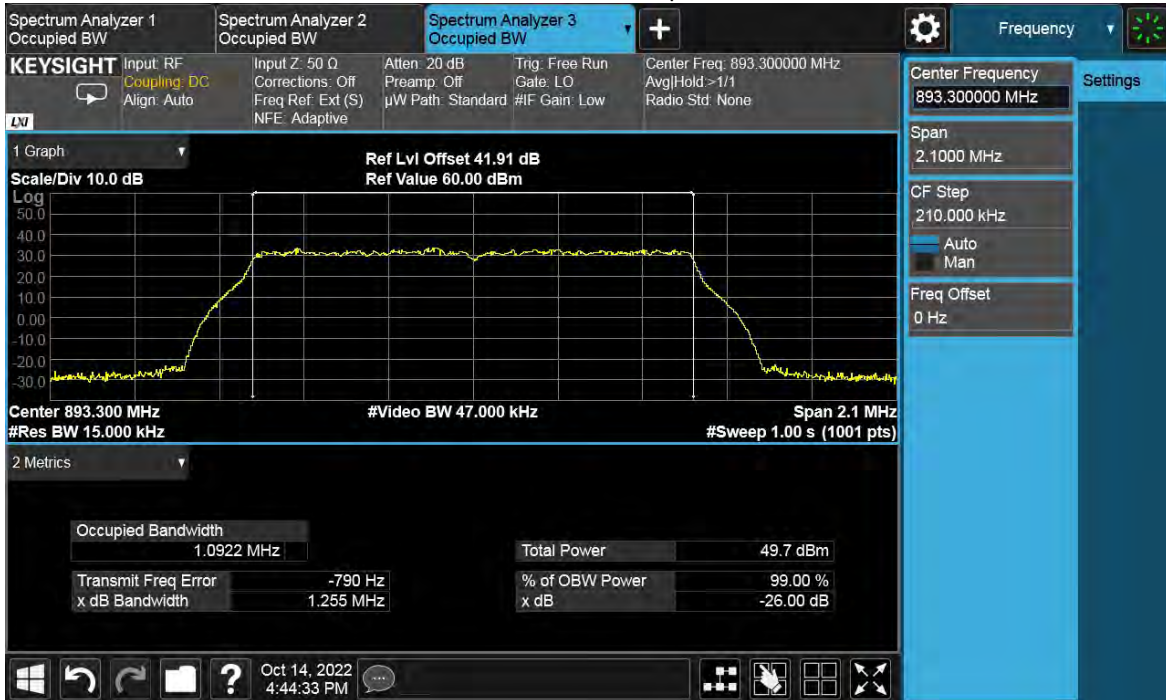
QPSK, 1.4MHz, Channel position B



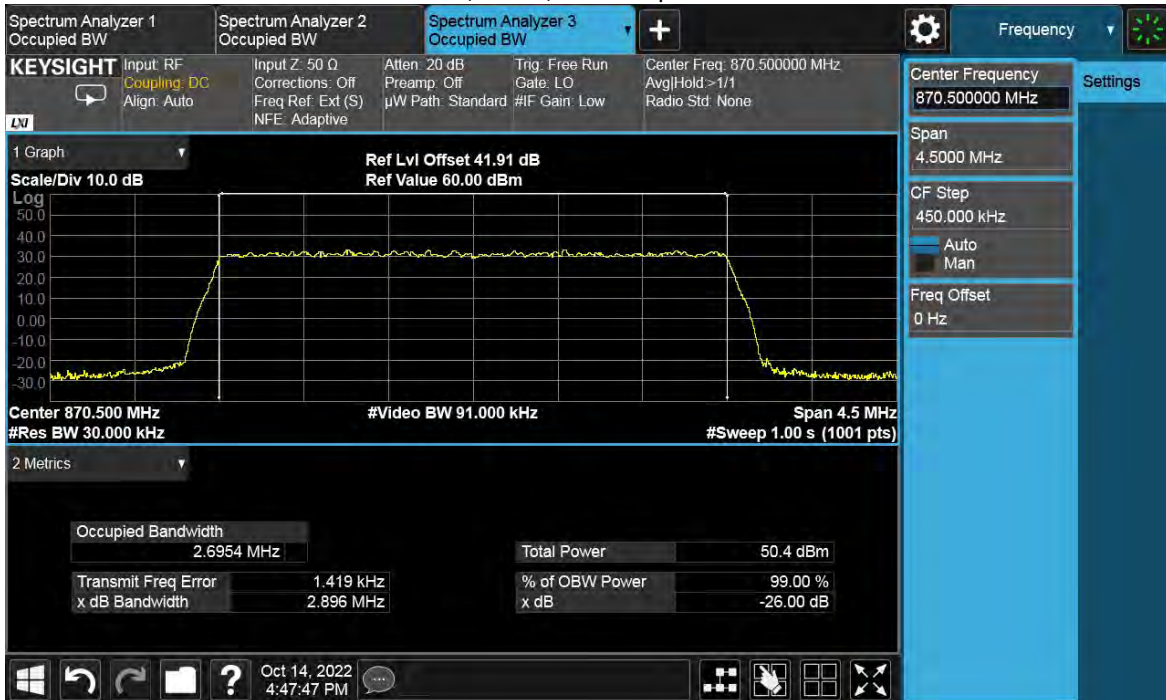
QPSK, 1.4MHz, Channel position M



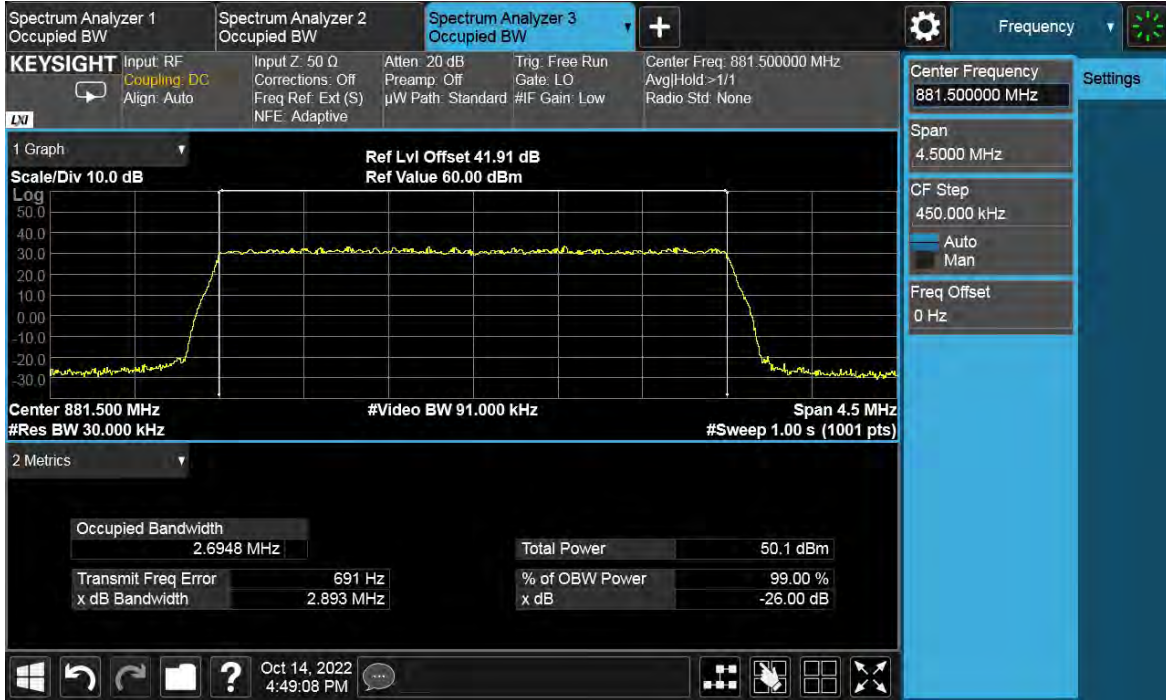
QPSK, 1.4MHz, Channel position T



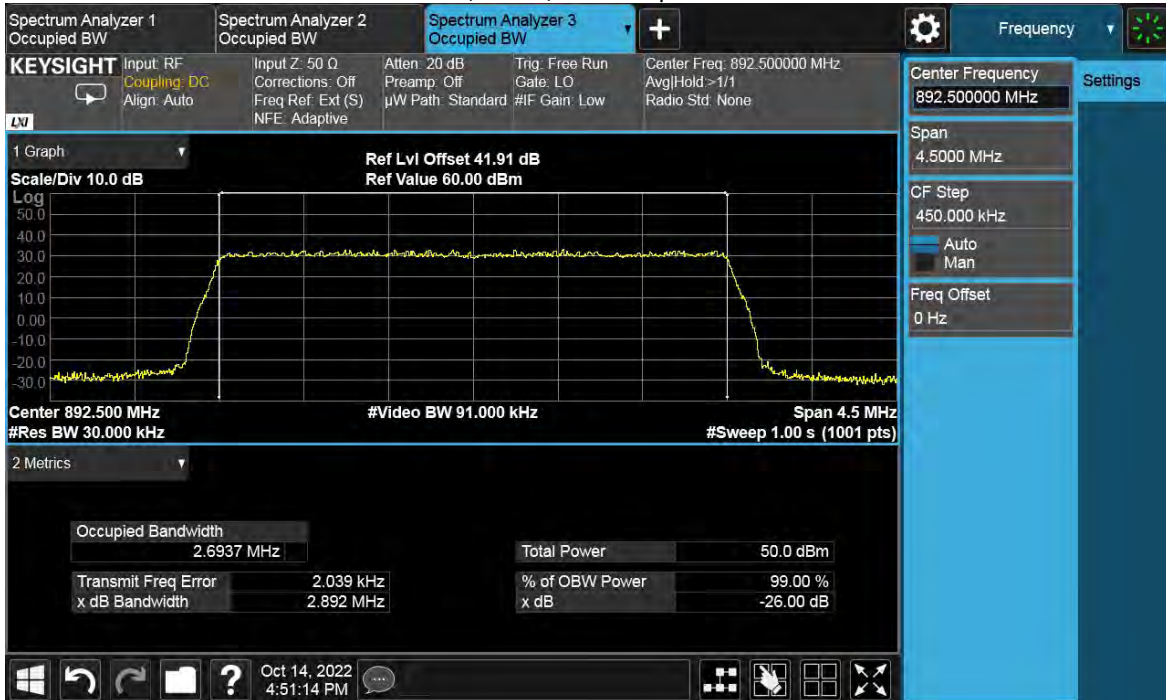
QPSK, 3MHz, Channel position B



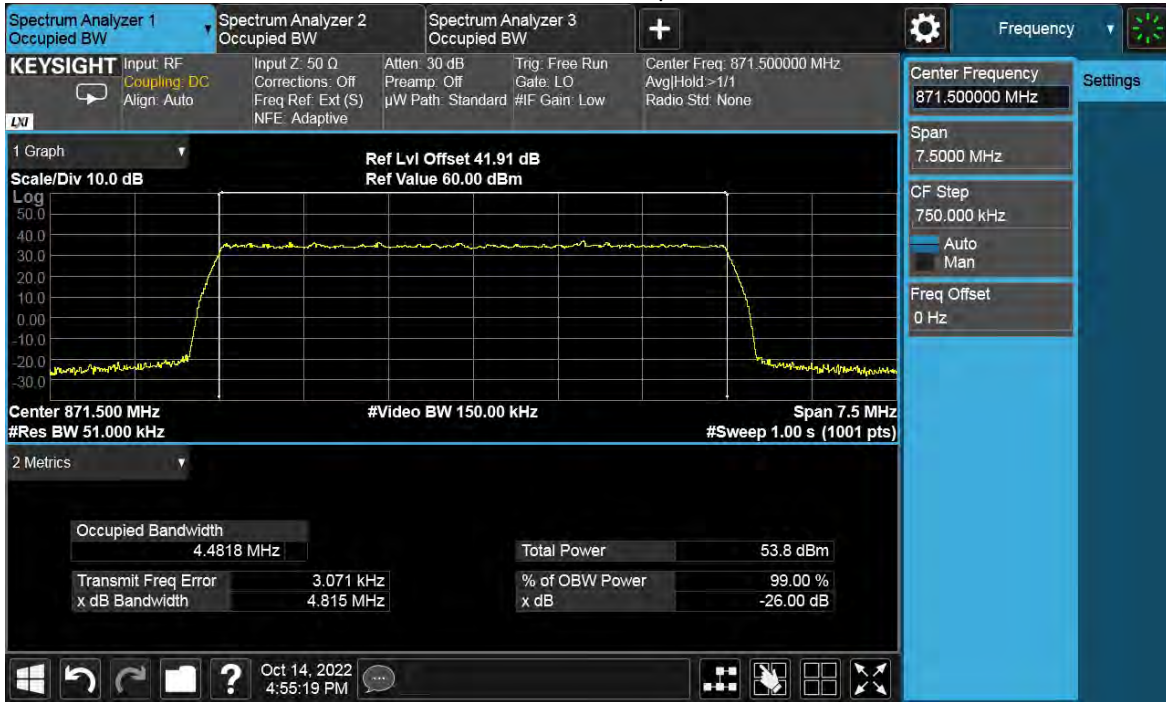
QPSK, 3MHz, Channel position M



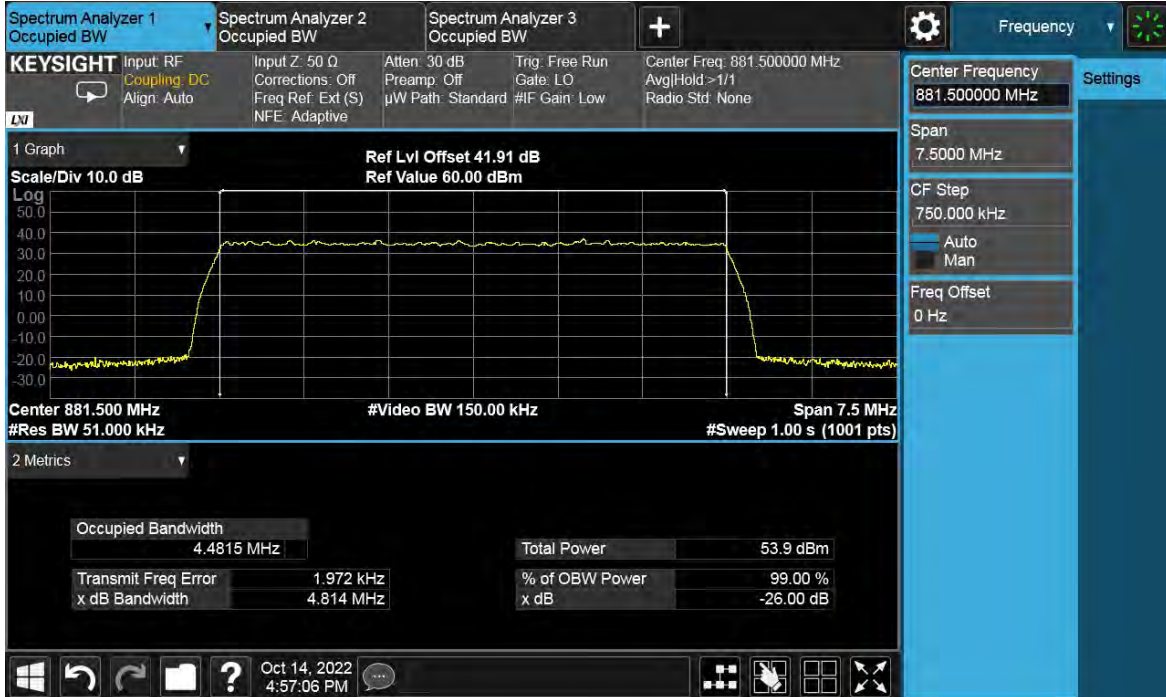
QPSK, 3MHz, Channel position T



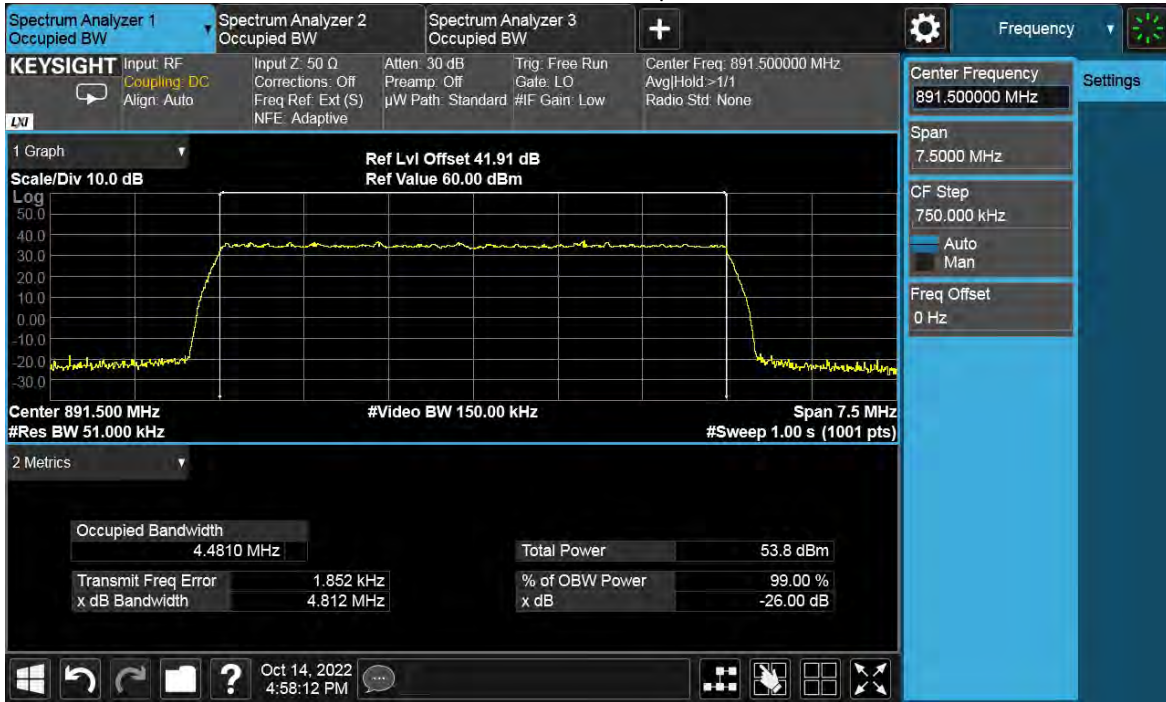
QPSK, 5MHz, Channel position B



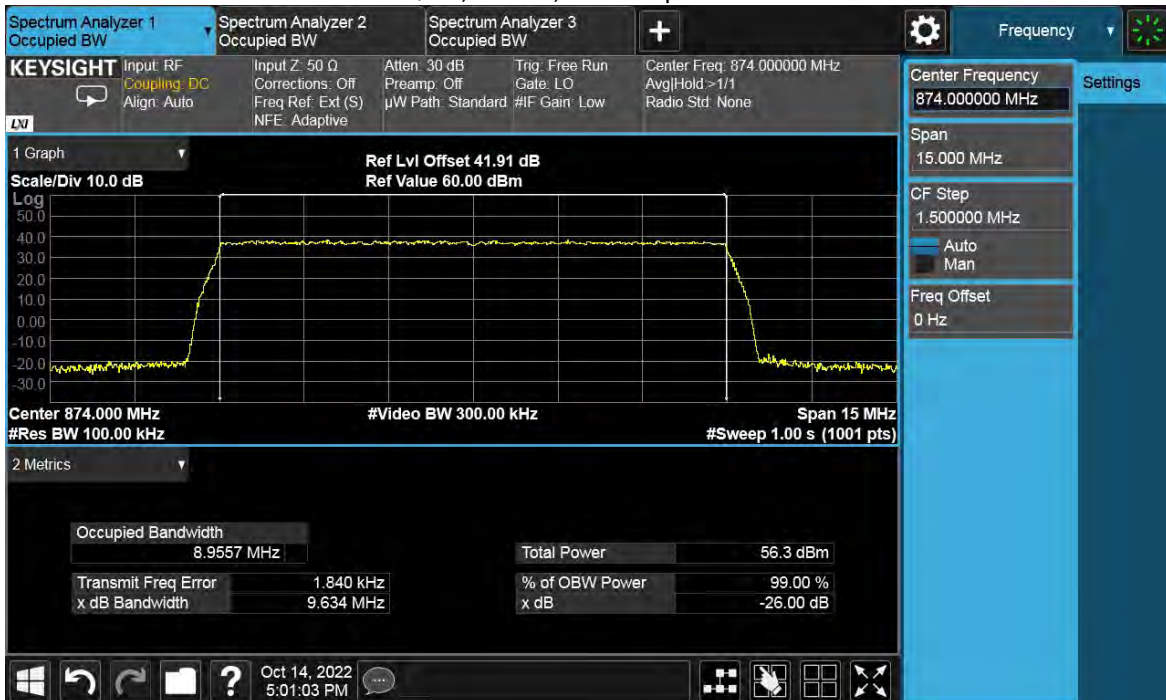
QPSK, 5MHz, Channel position M



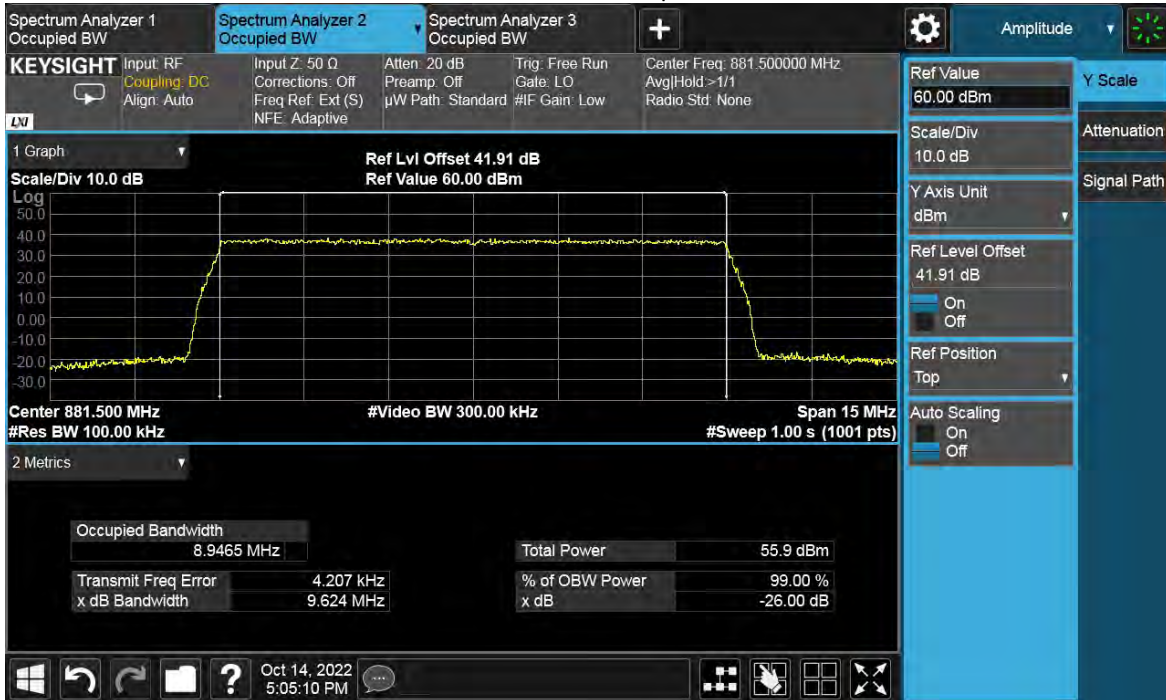
QPSK, 5MHz, Channel position T



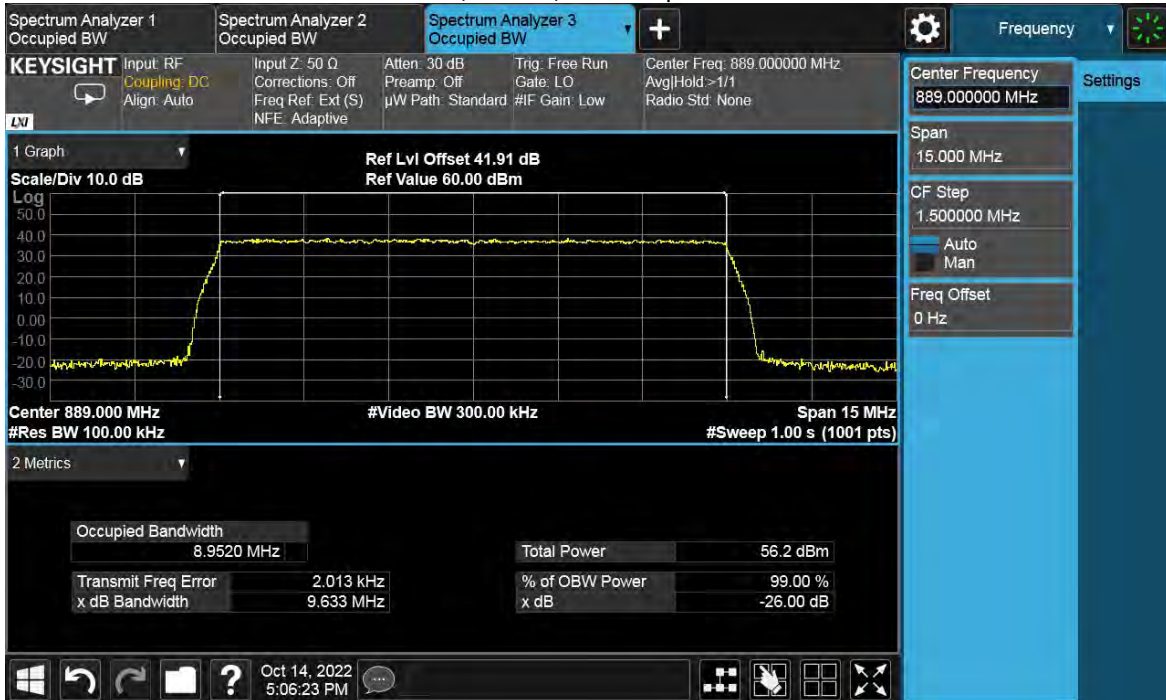
QPSK, 10MHz, Channel position B



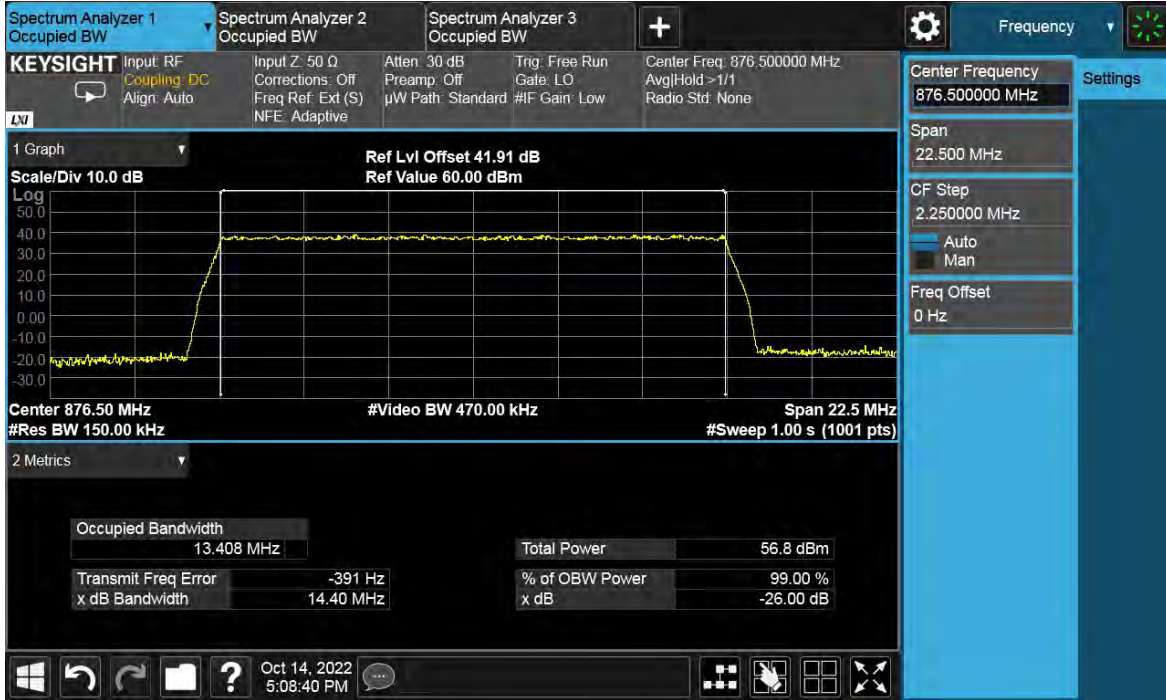
QPSK, 10MHz, Channel position M



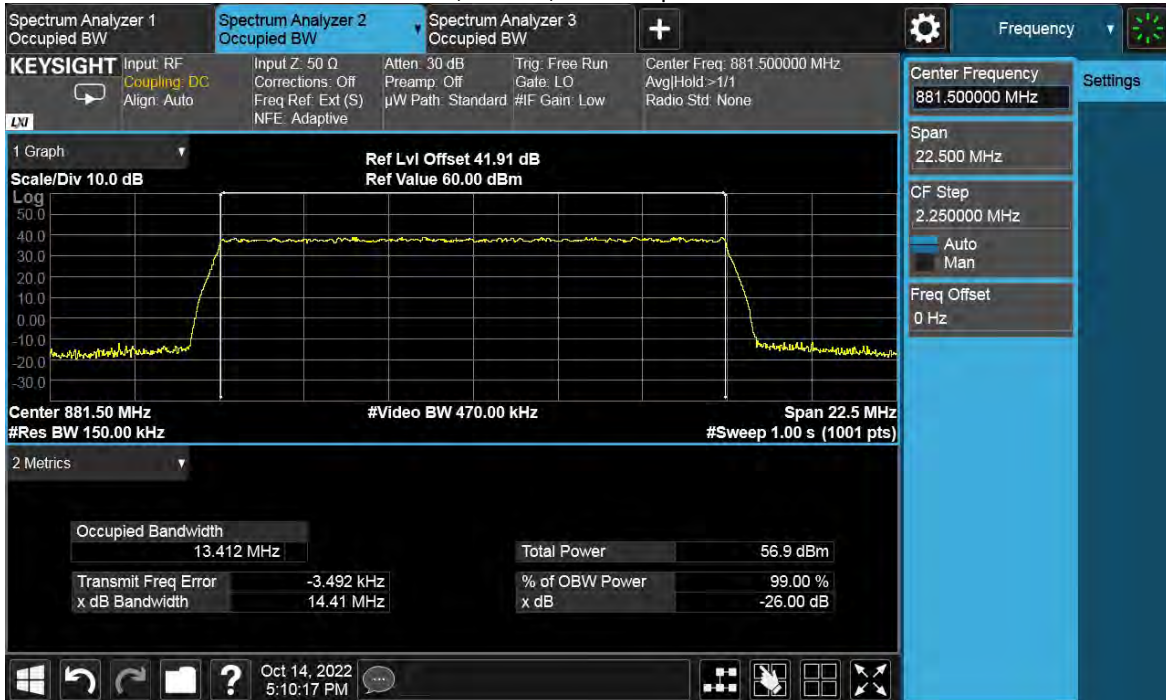
QPSK, 10MHz, Channel position T



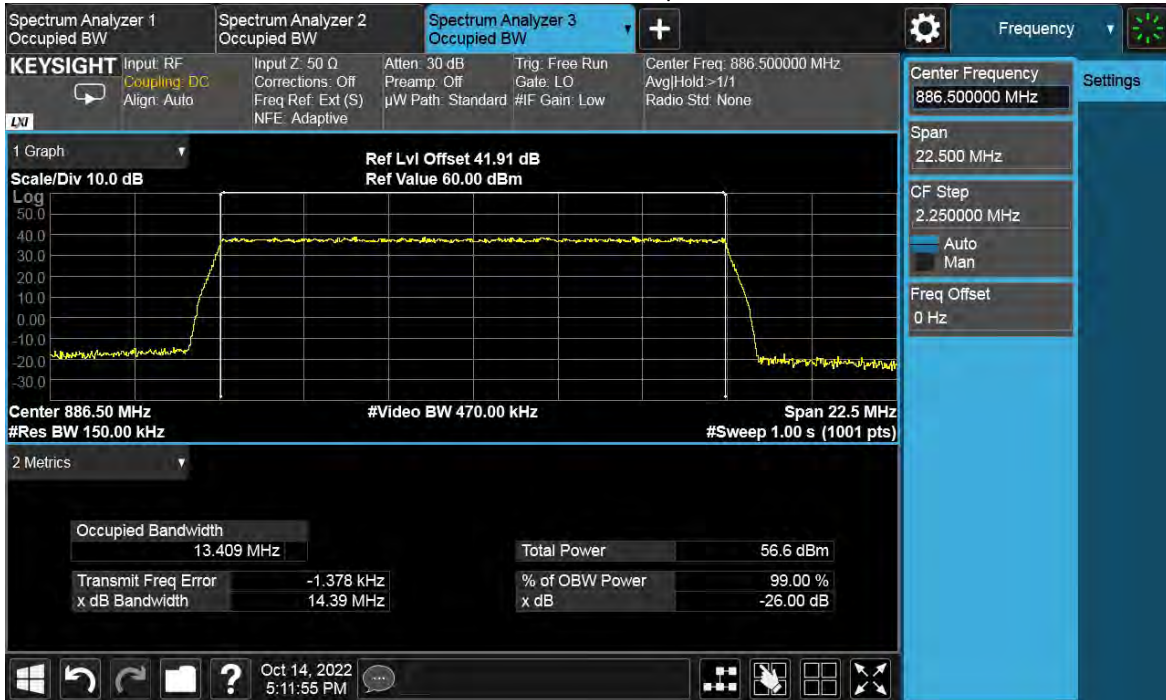
QPSK, 15MHz, Channel position B



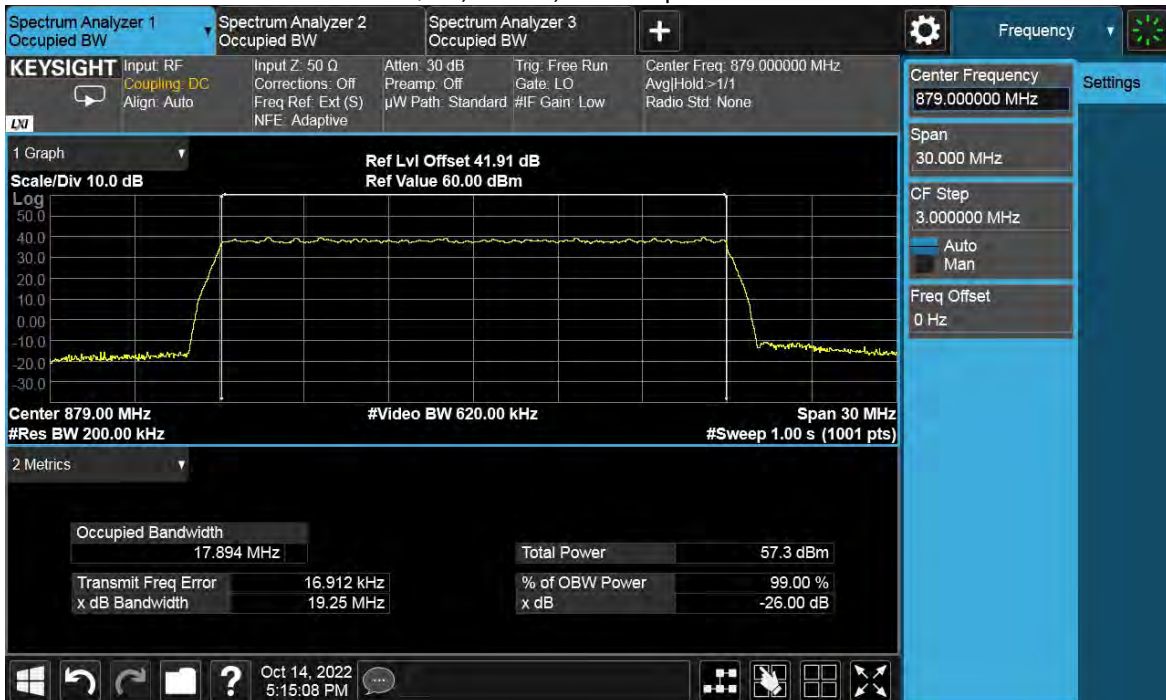
QPSK, 15MHz, Channel position M



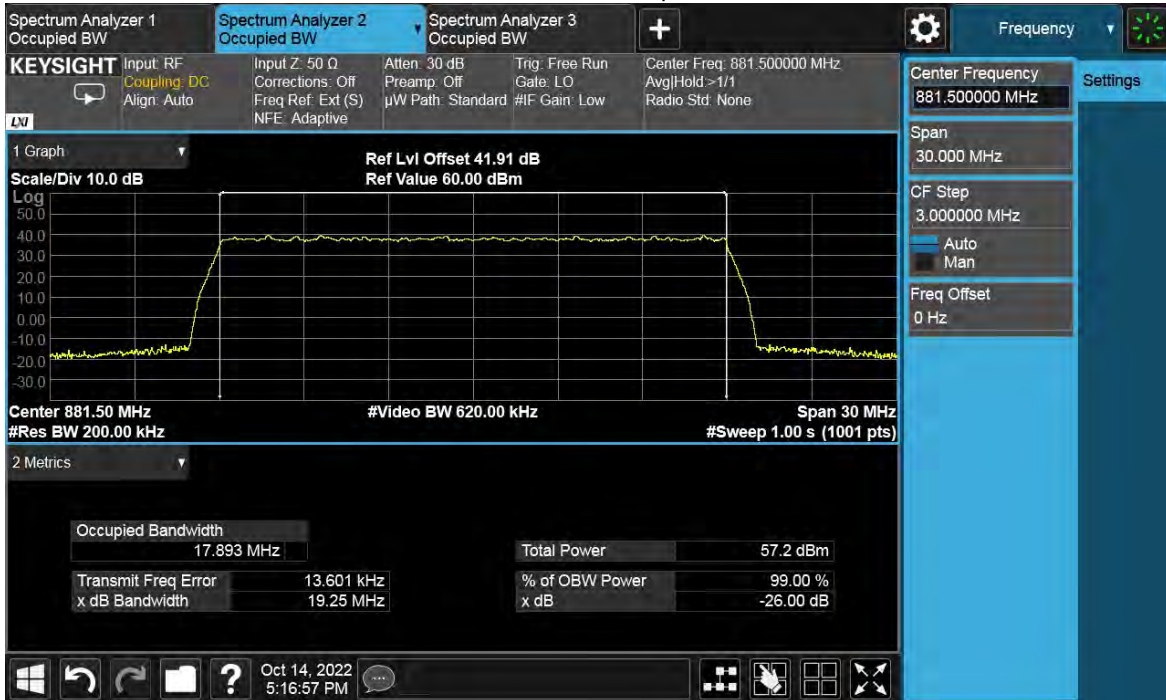
QPSK, 15MHz, Channel position T



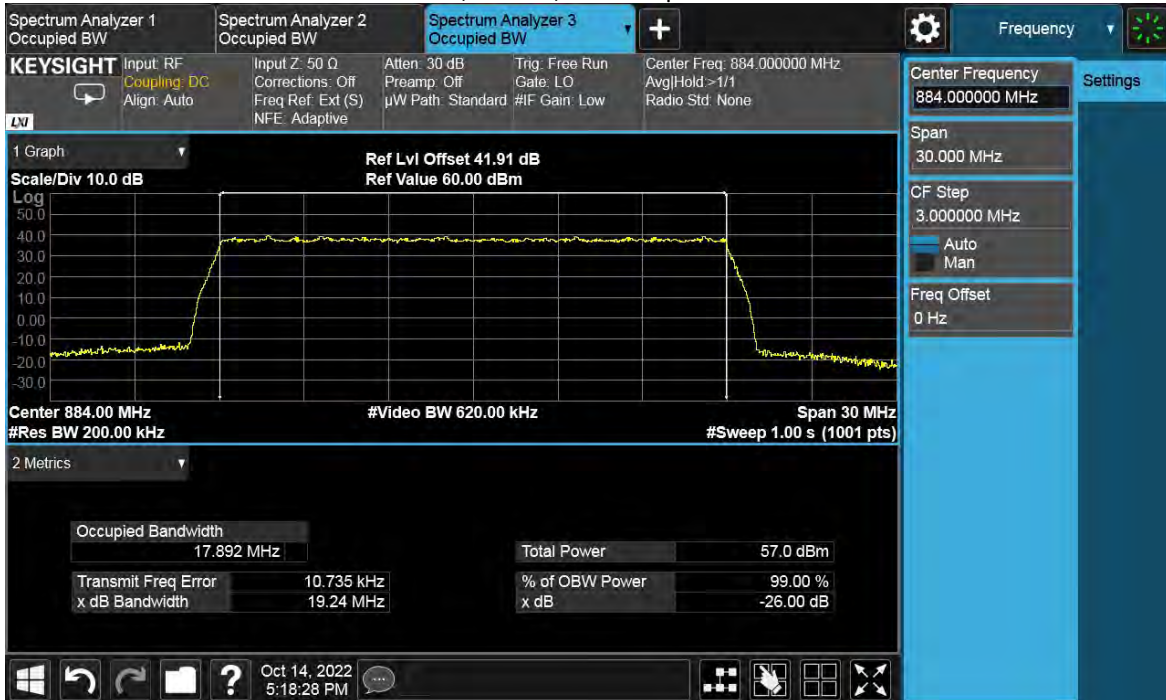
QPSK, 20MHz, Channel position B



QPSK, 20MHz, Channel position M



QPSK, 20MHz, Channel position T



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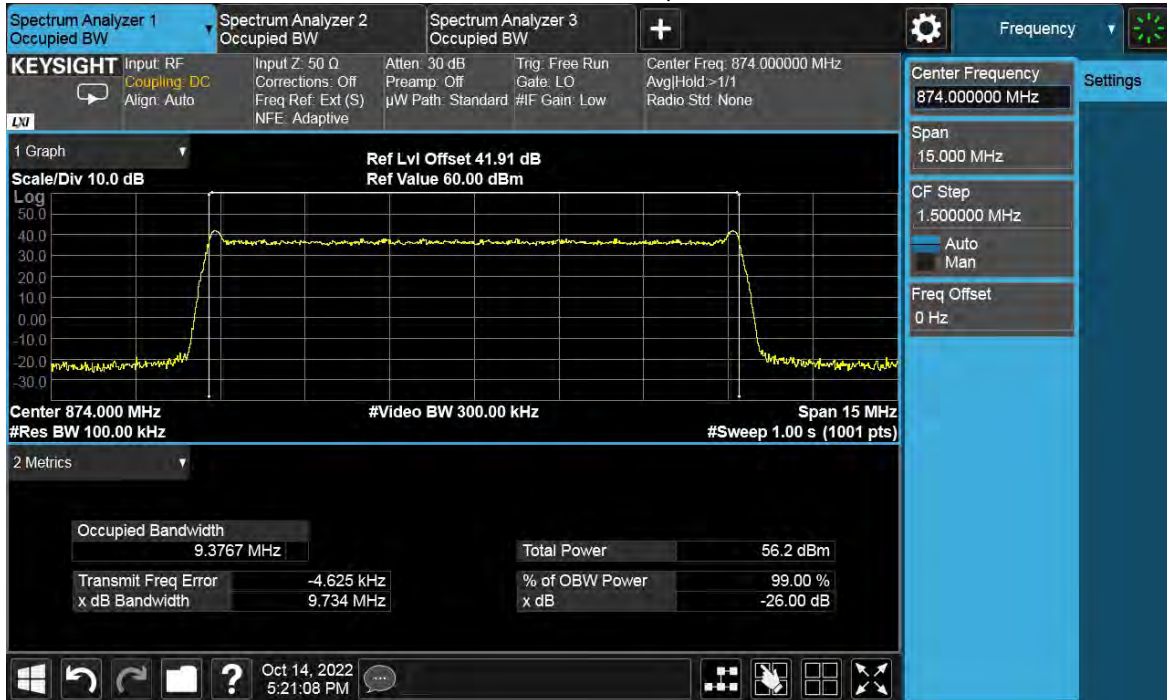
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	10MHz	9.3767	9.3819	9.3745
D	QPSK	15MHz	13.986	13.976	13.979
D	QPSK	20MHz	18.438	18.436	18.428

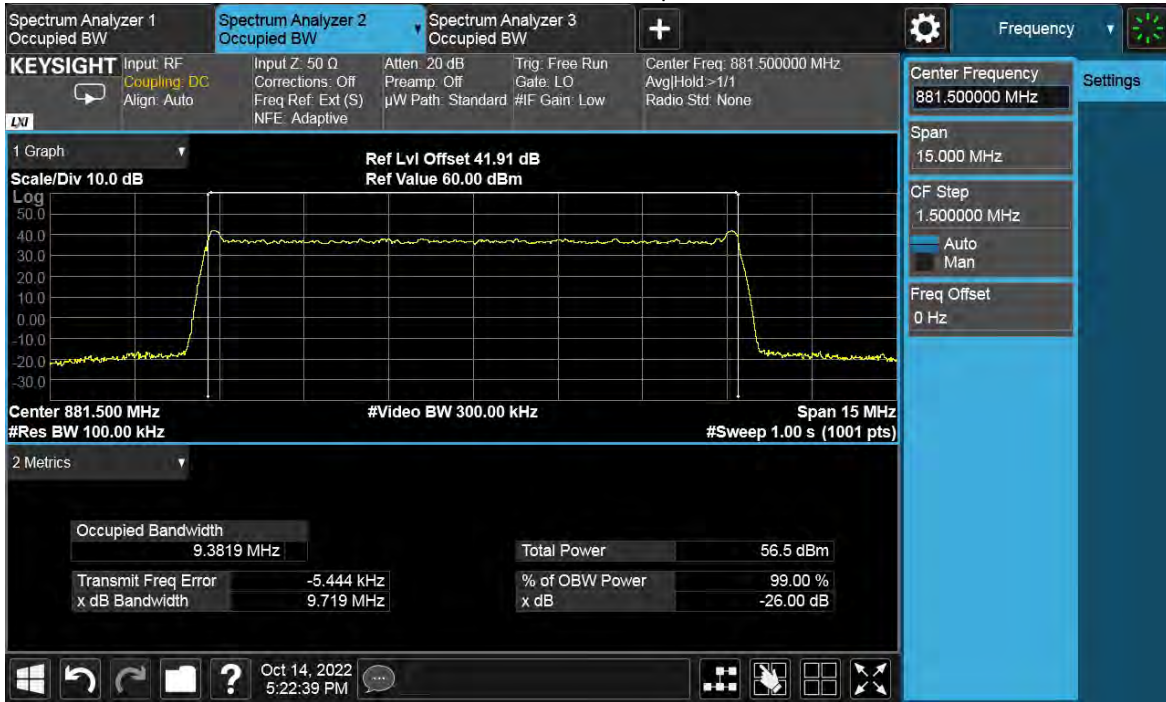
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	10MHz	9.734	9.719	9.718
D	QPSK	15MHz	14.56	14.54	14.54
D	QPSK	20MHz	19.29	19.31	19.29

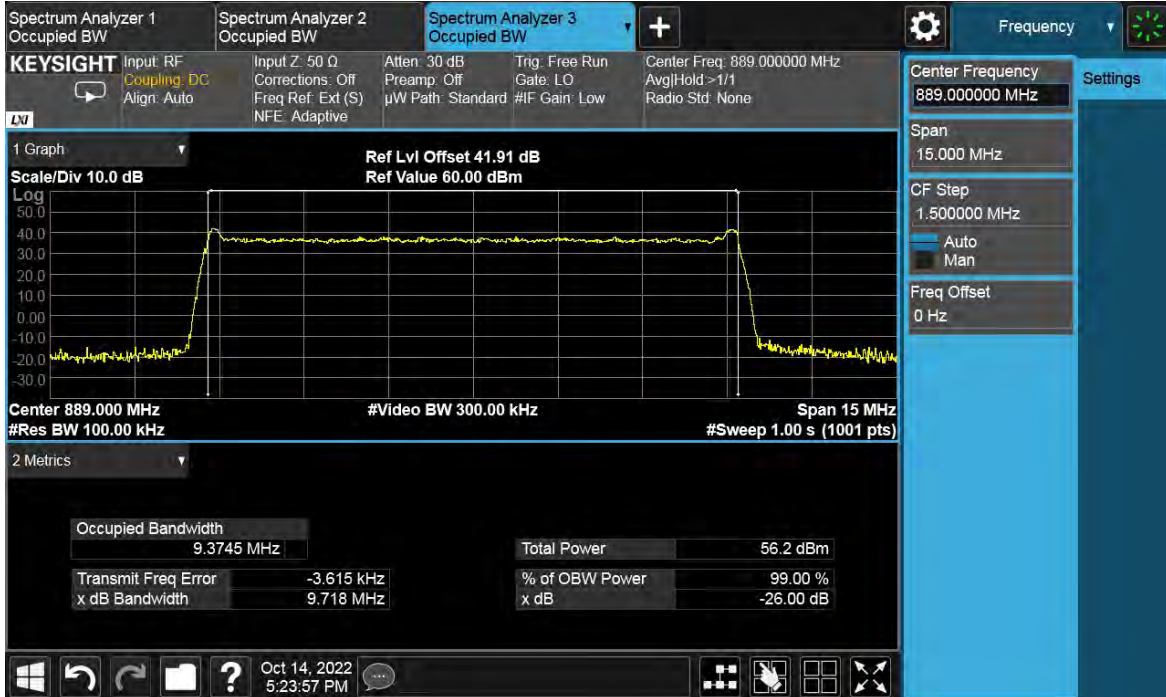
QPSK, 10MHz, Channel position B



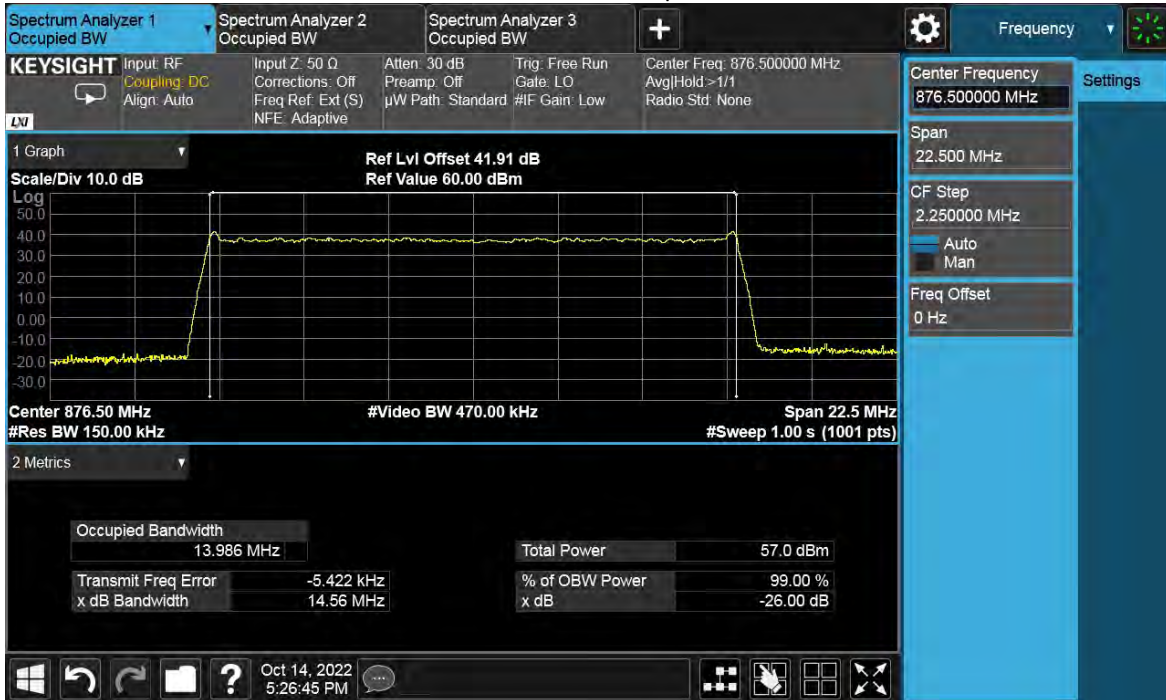
QPSK, 10MHz, Channel position M



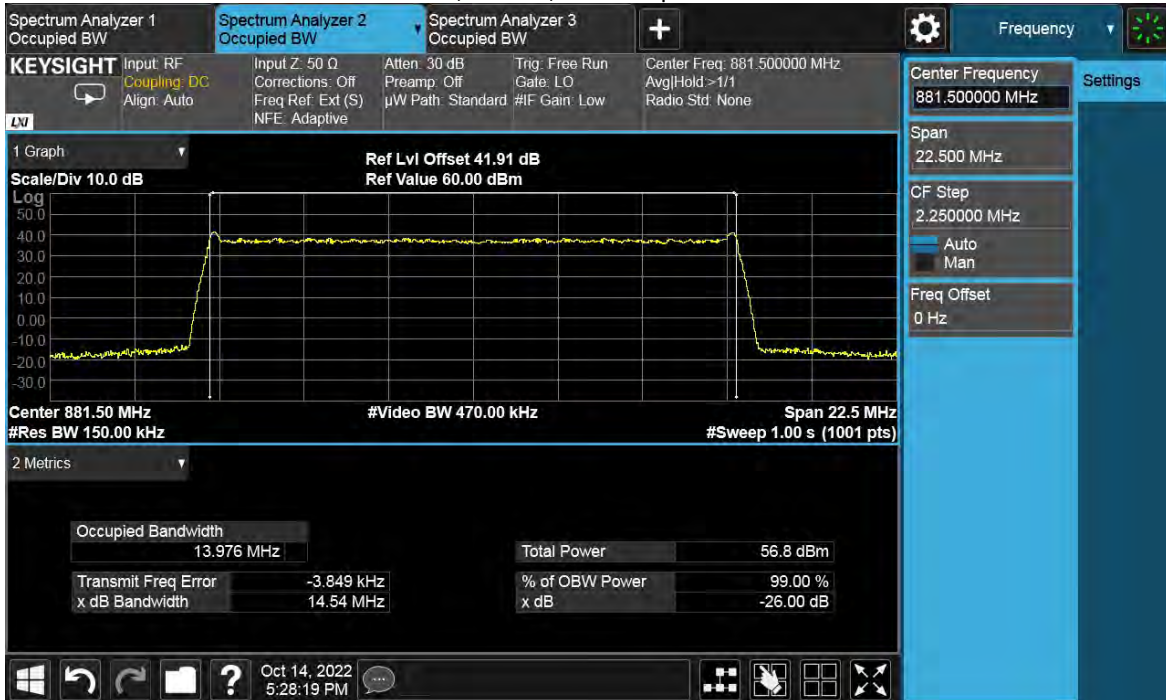
QPSK, 10MHz, Channel position T



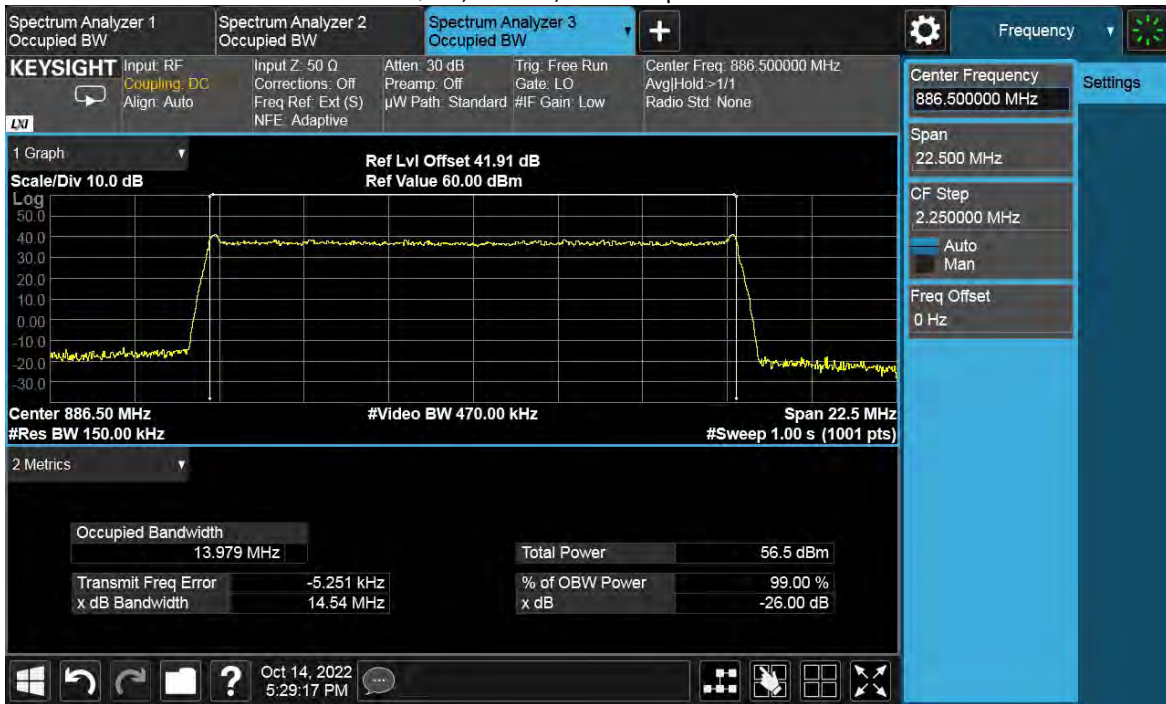
QPSK, 15MHz, Channel position B



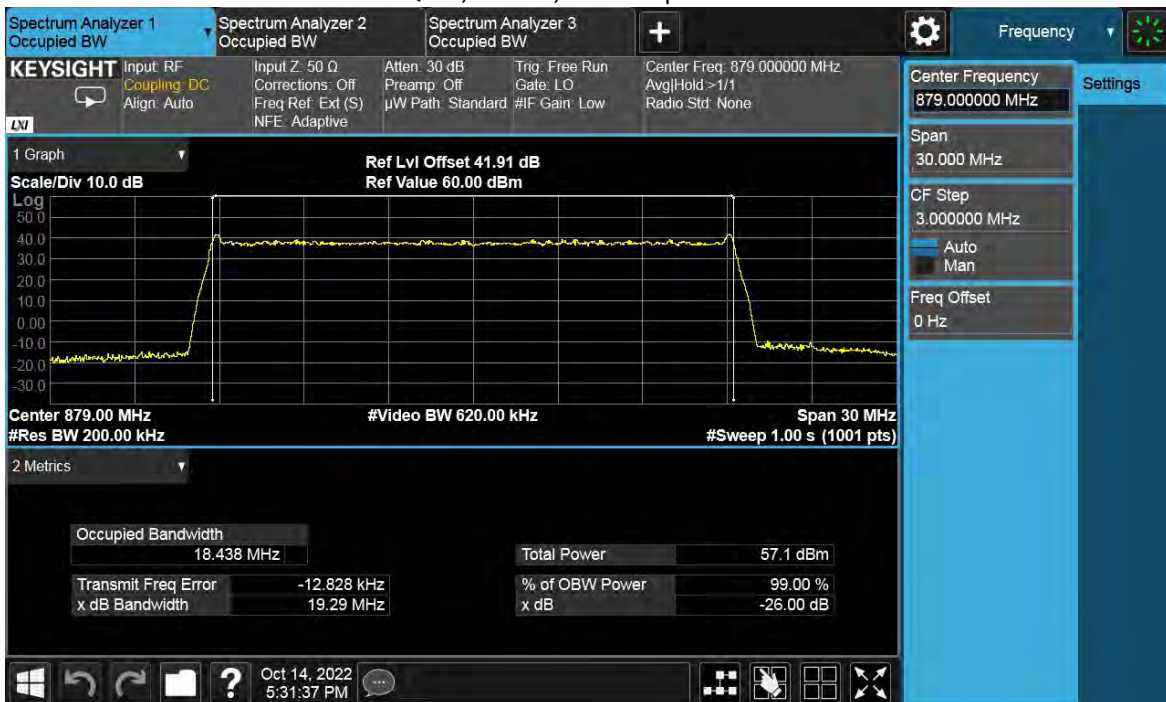
QPSK, 15MHz, Channel position M



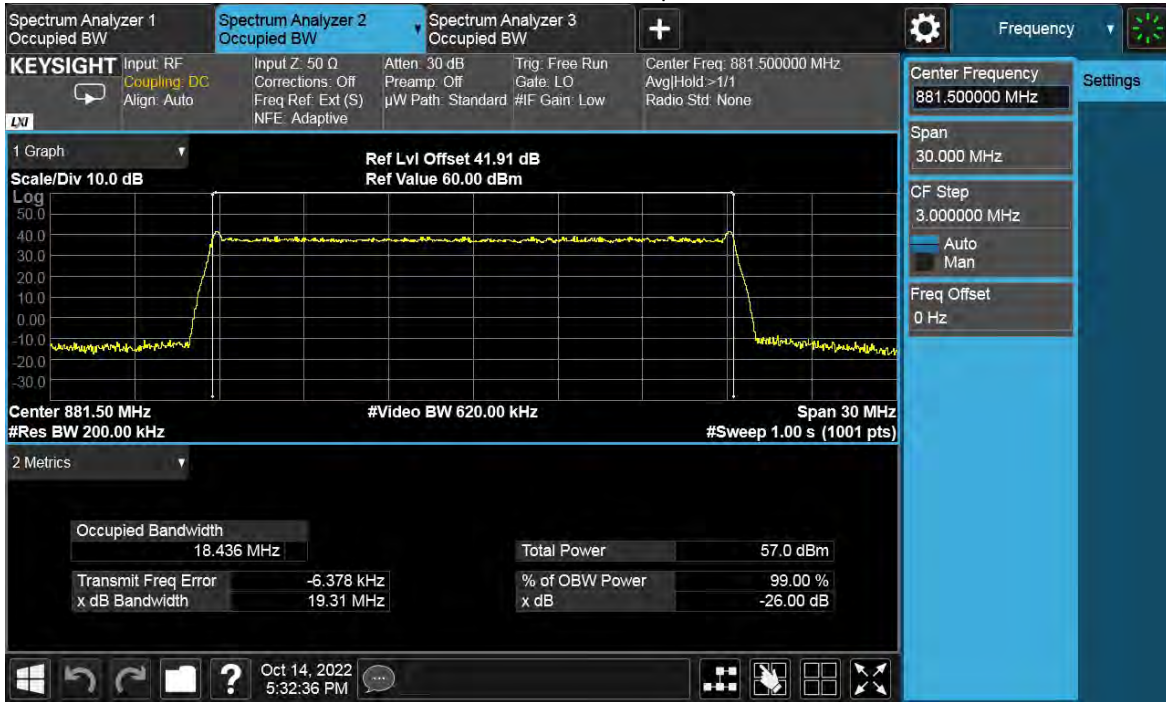
QPSK, 15MHz, Channel position T



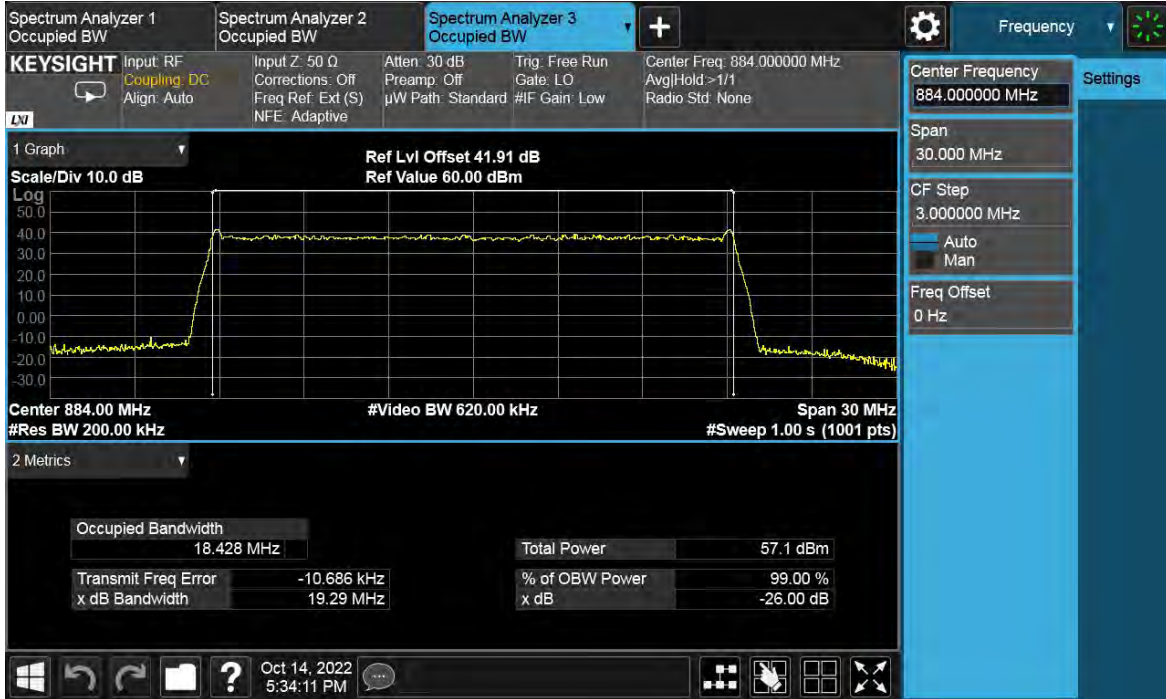
QPSK, 20MHz, Channel position B



QPSK, 20MHz, Channel position M



QPSK, 20MHz, Channel position T



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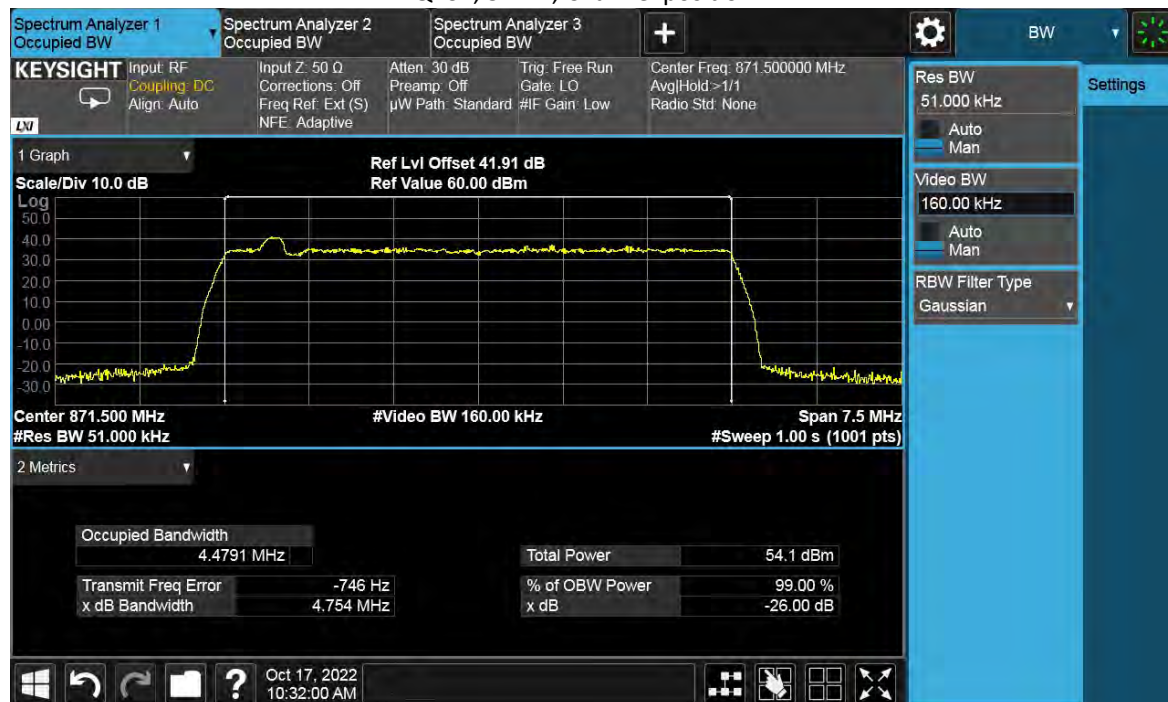
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	5MHz	4.4791	4.4768	4.4807
D	QPSK	10MHz	8.9423	8.9430	8.9363
D	QPSK	15MHz	13.416	13.410	13.407
D	QPSK	20MHz	17.860	17.867	17.877

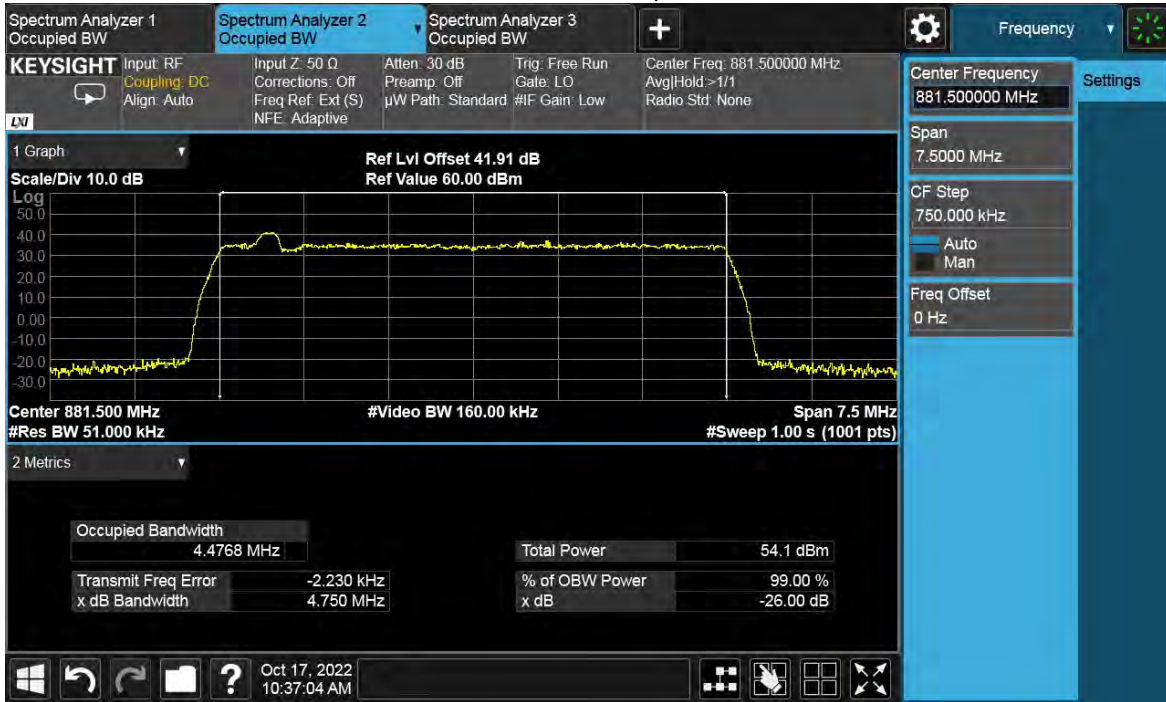
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	5MHz	4.754	4.750	4.756
D	QPSK	10MHz	9.535	9.533	9.504
D	QPSK	15MHz	14.27	14.27	14.28
D	QPSK	20MHz	19.10	19.09	19.08

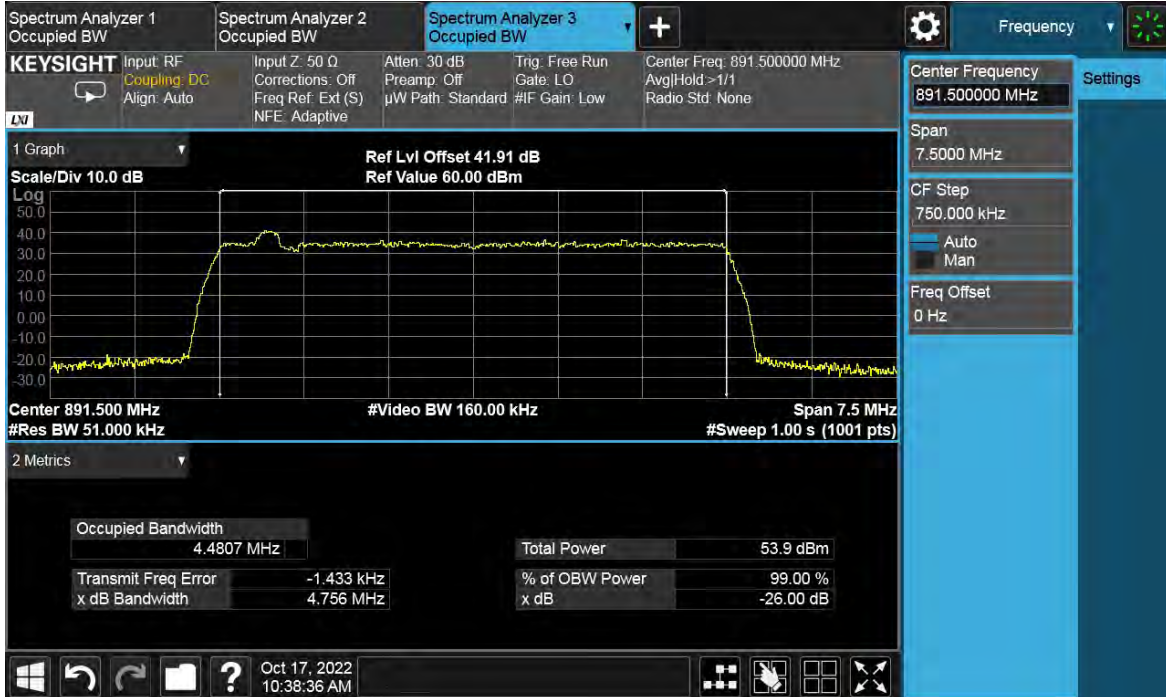
QPSK, 5MHz, Channel position B



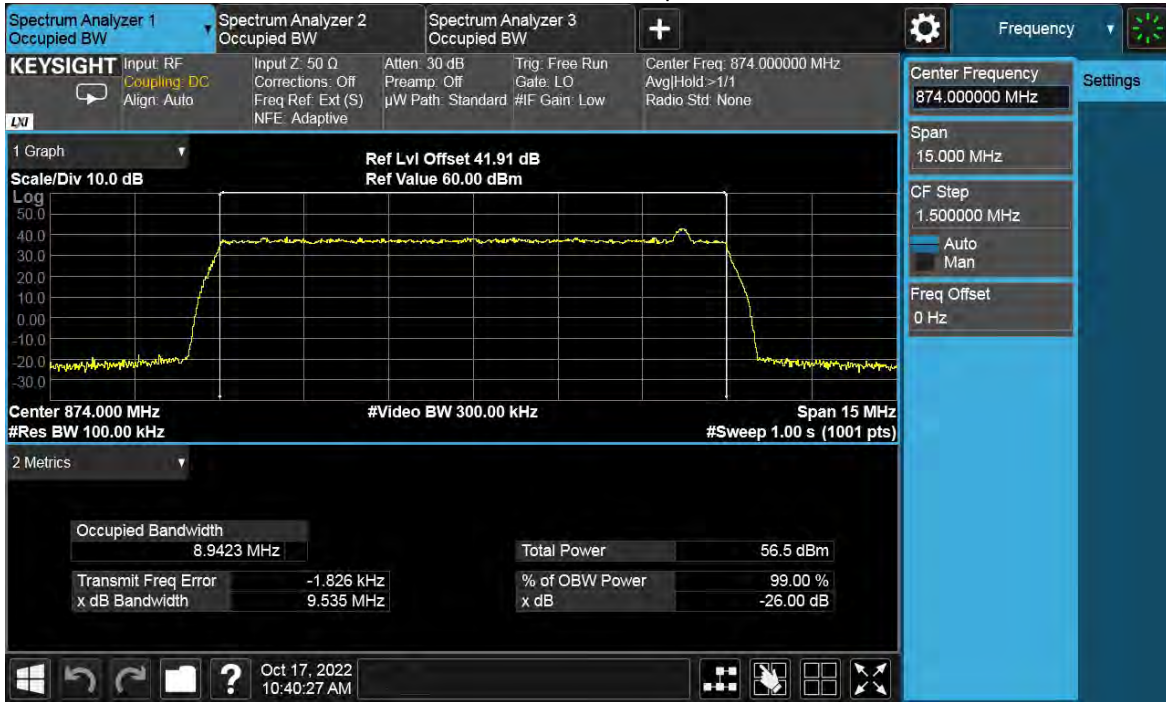
QPSK, 5MHz, Channel position M



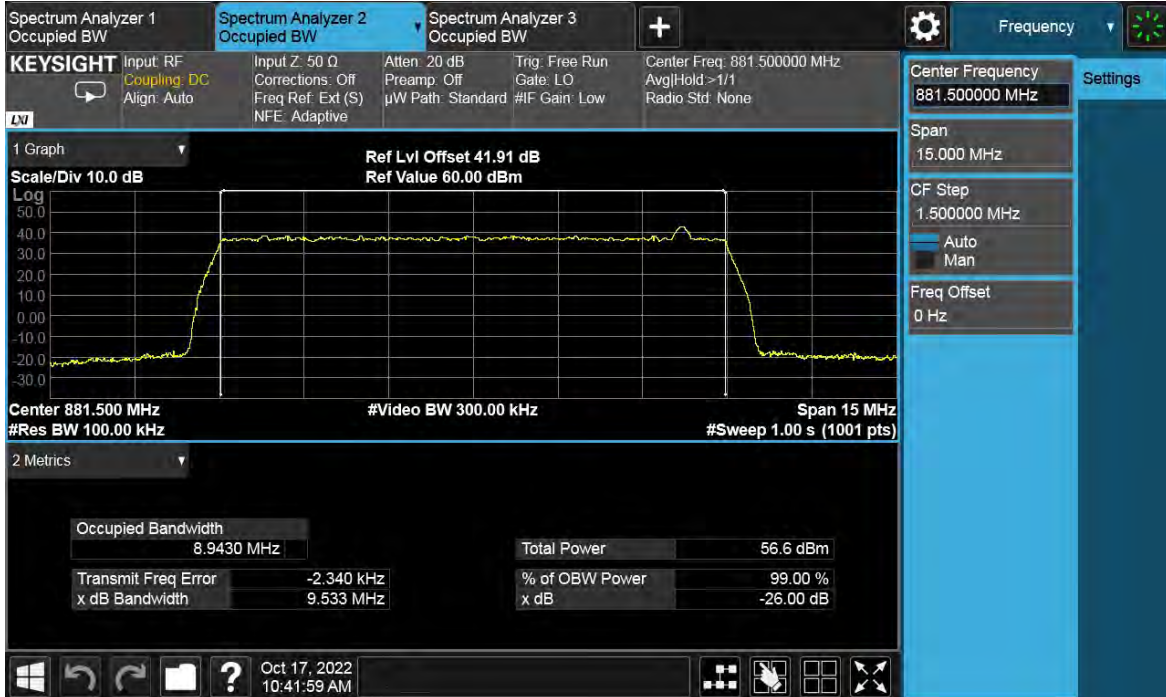
QPSK, 5MHz, Channel position T



QPSK, 10MHz, Channel position B

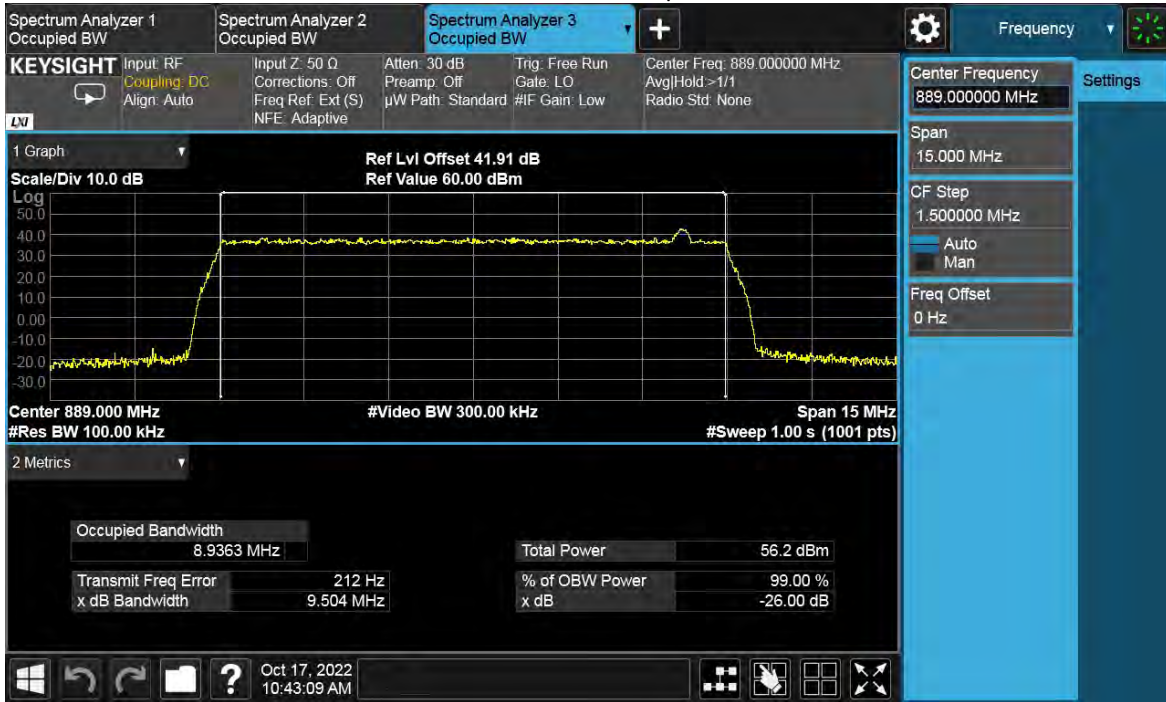


QPSK, 10MHz, Channel position M

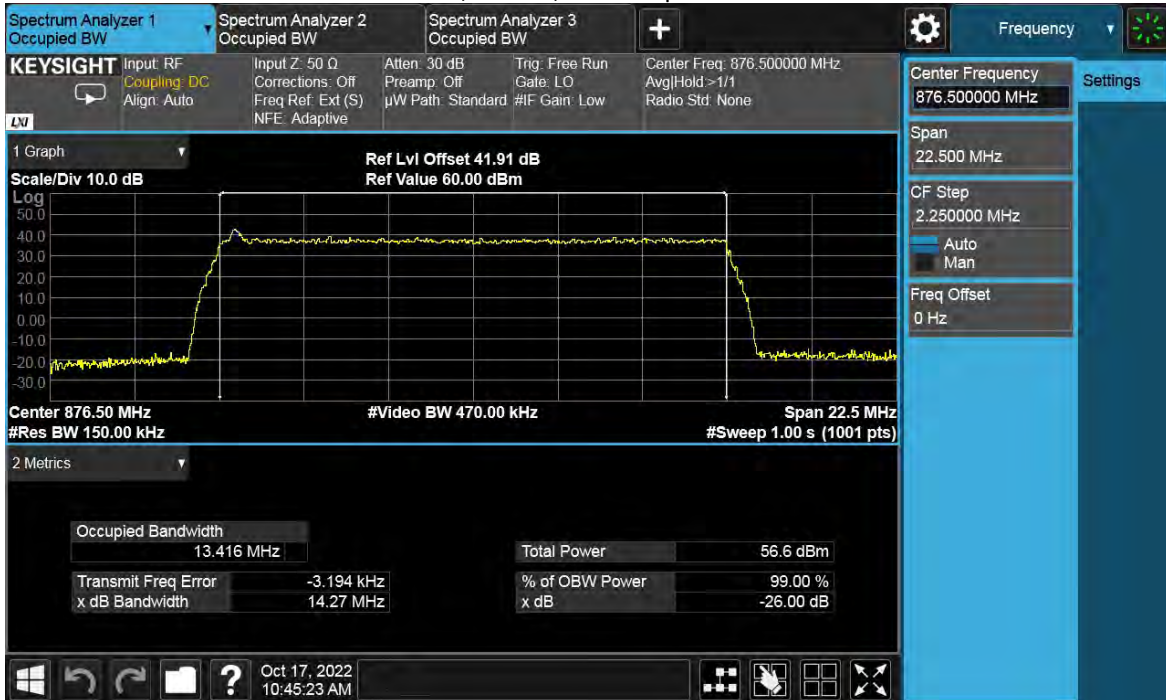


TEST REPORT

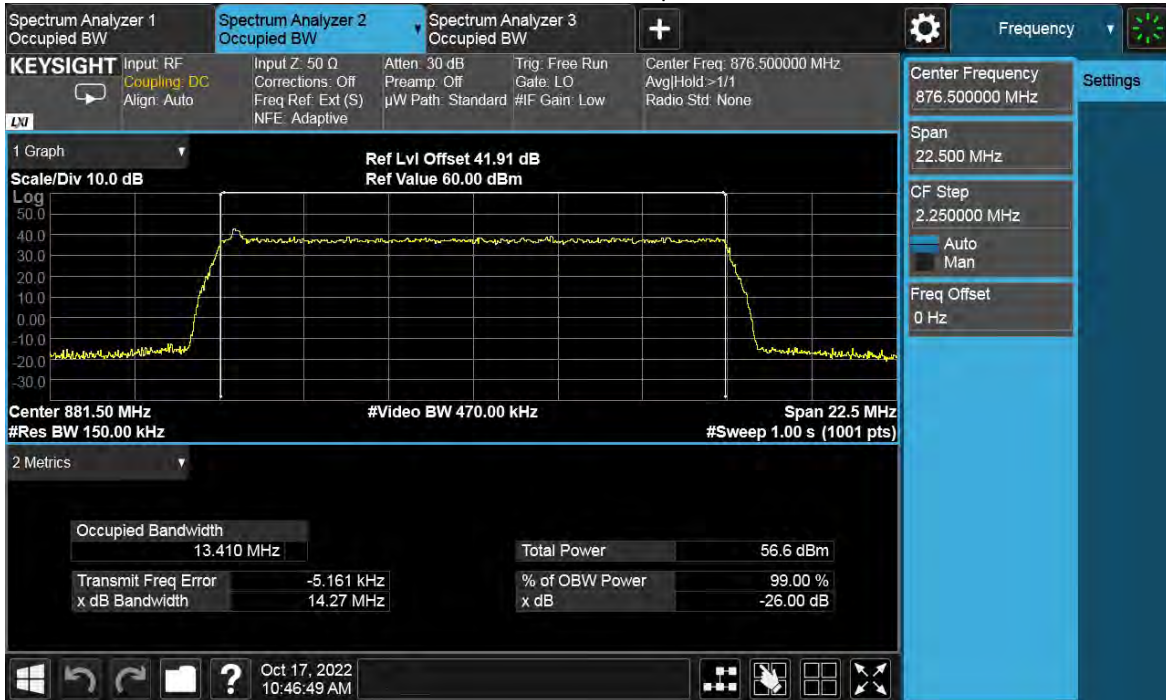
QPSK, 10MHz, Channel position T



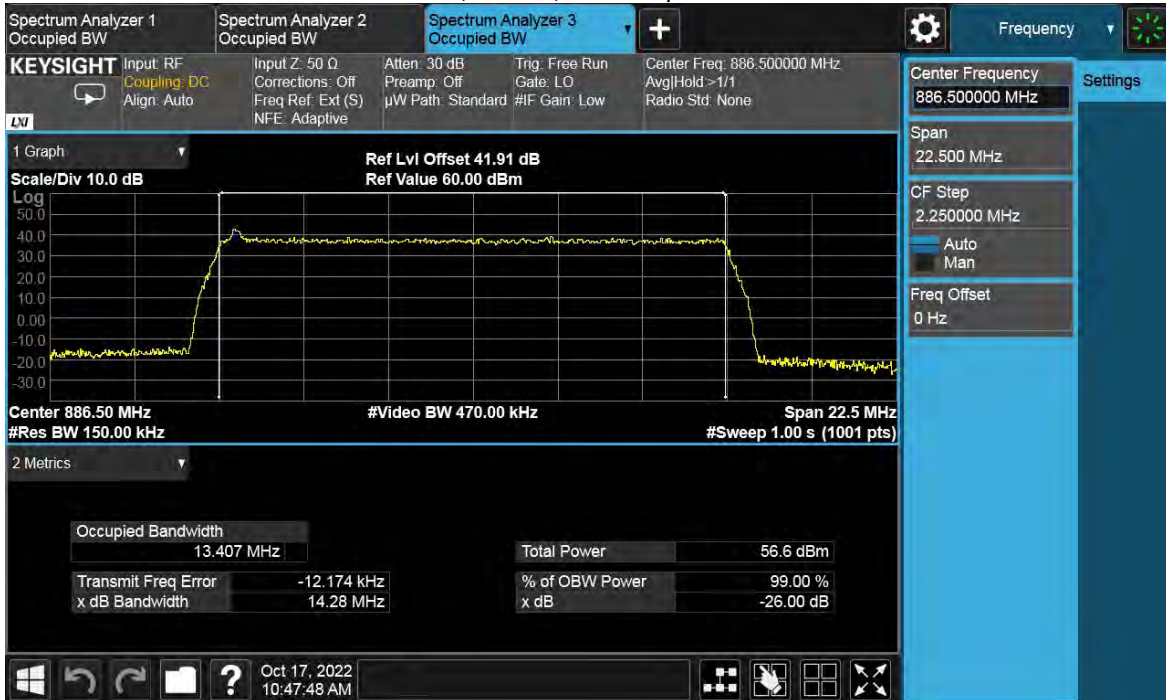
QPSK, 15MHz, Channel position B



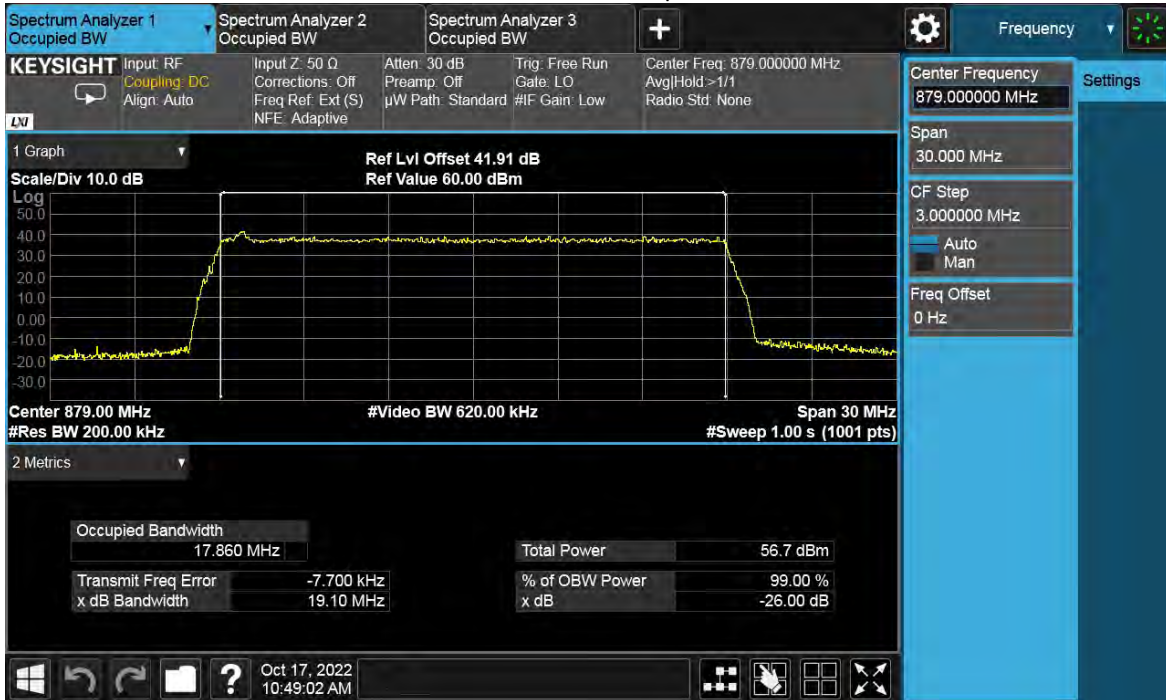
QPSK, 15MHz, Channel position M



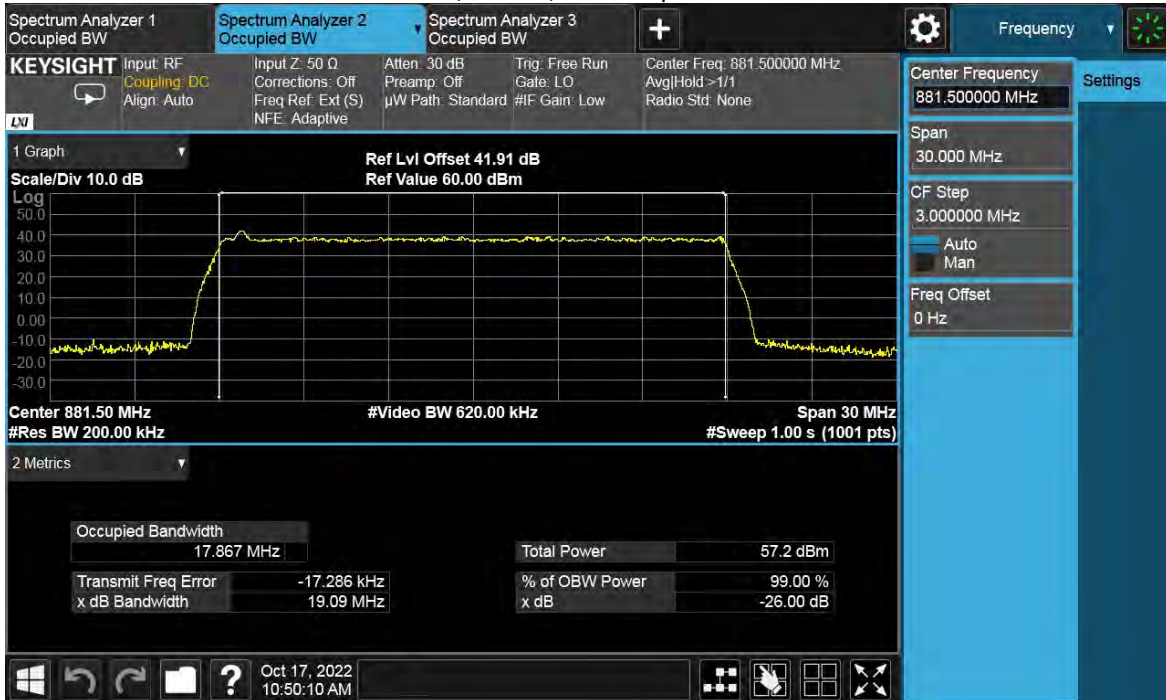
QPSK, 15MHz, Channel position T



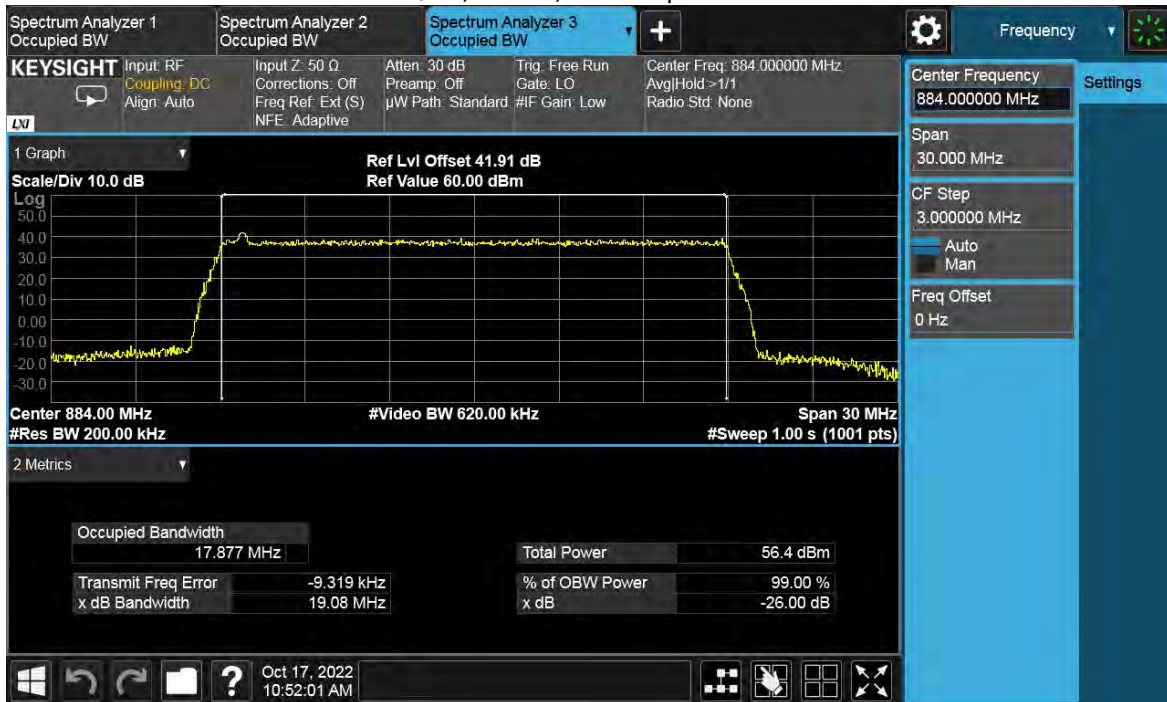
QPSK, 20MHz, Channel position B



QPSK, 20MHz, Channel position M



QPSK, 20MHz, Channel position T



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99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (kHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	0.2MHz	195.46	195.40	194.97

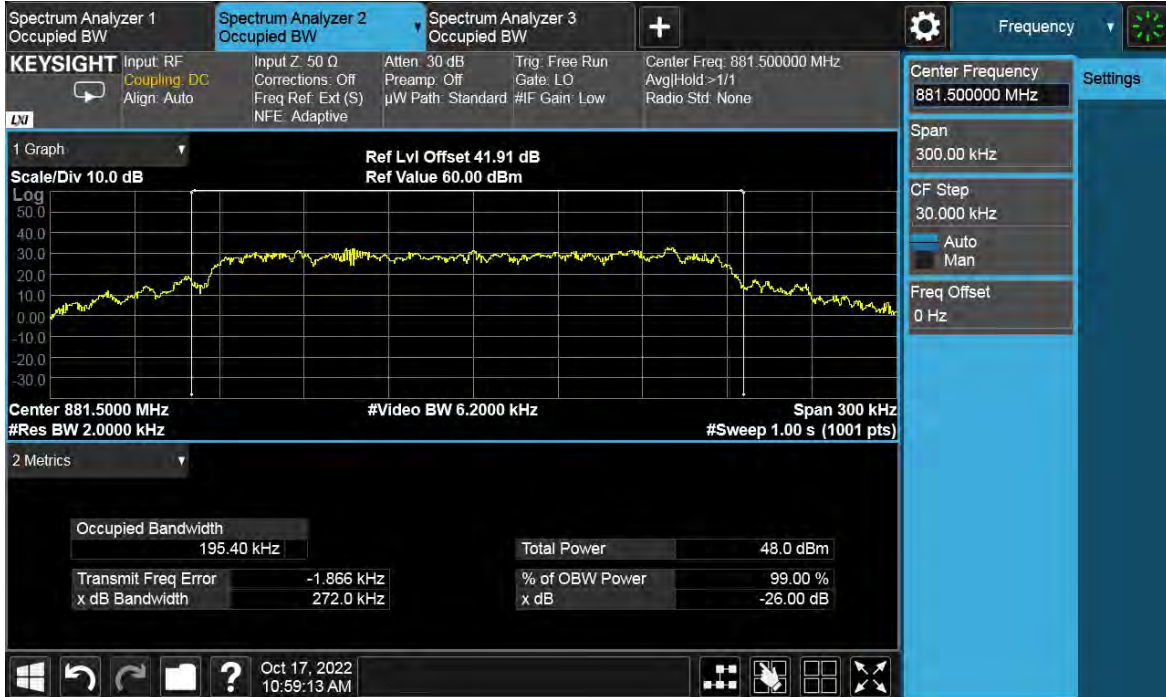
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (kHz)		
			Channel Position B	Channel Position M	Channel Position T
D	QPSK	0.2MHz	272.6	272.0	271.9

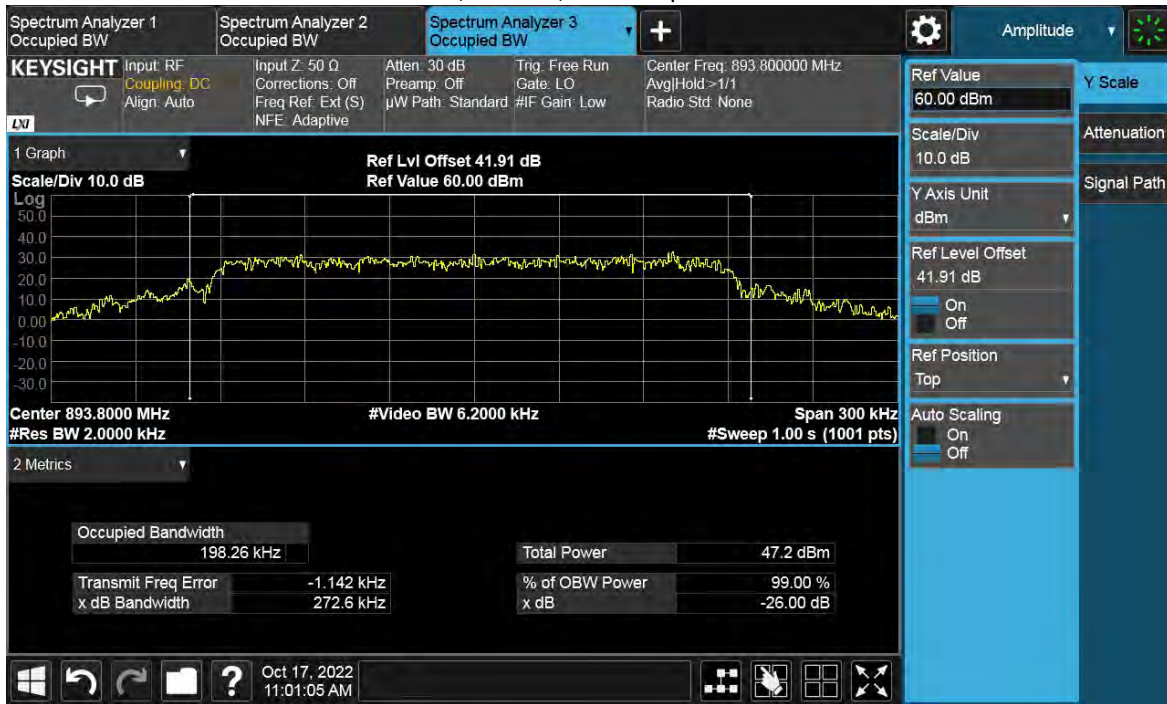
QPSK, 0.2MHz, Channel position B



QPSK, 0.2MHz, Channel position M



QPSK, 0.2MHz, Channel position T



TEST REPORT**5 Unwanted Emissions at Band Edge****Test result: Pass****5.1 Limit**

In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

5.2 Measurement Procedure

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

For MIMO mode configurations, the limit was adjusted with a correction of $-6.02\text{dB} [10\log(1/4)]$ by using the Measure and Add $10\log(N)$ dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports . Then the limit was adjusted to -19.02dBm . For GSM which do not support MIMO, the limit is 13dBm .

Spectrum analyzer detector was set as RMS.