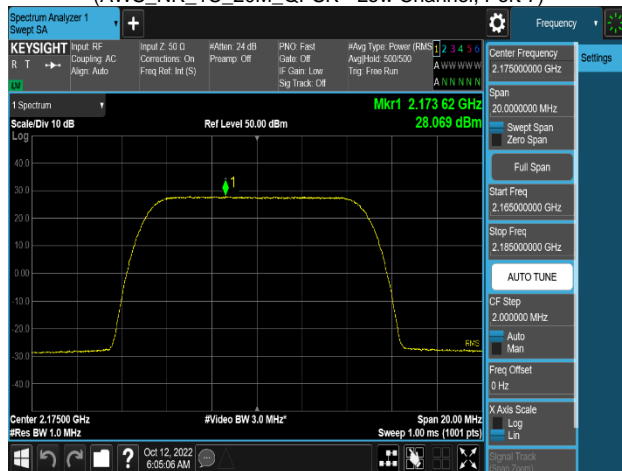


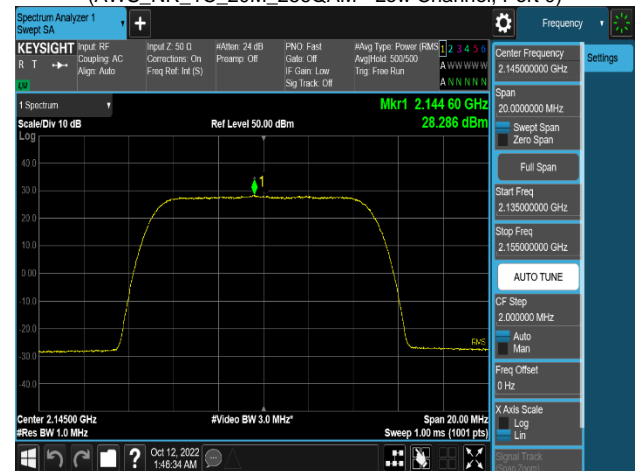
Plot 8-73. Power Spectral Density Plot
(AWS_NR_1C_20M_QPSK - Low Channel, Port 7)



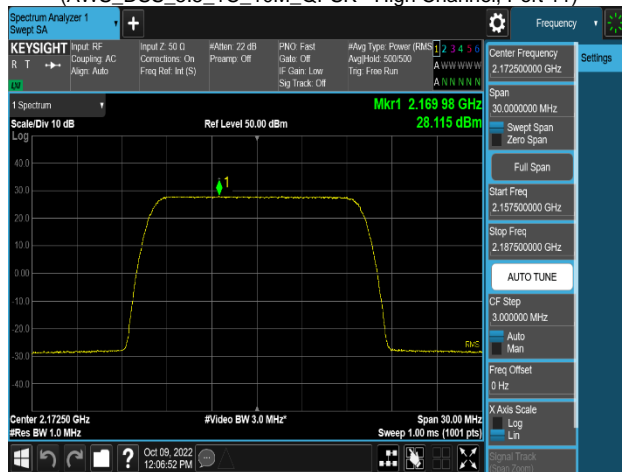
Plot 8-74. Power Spectral Density Plot
(AWS_NR_1C_20M_256QAM - Low Channel, Port 0)



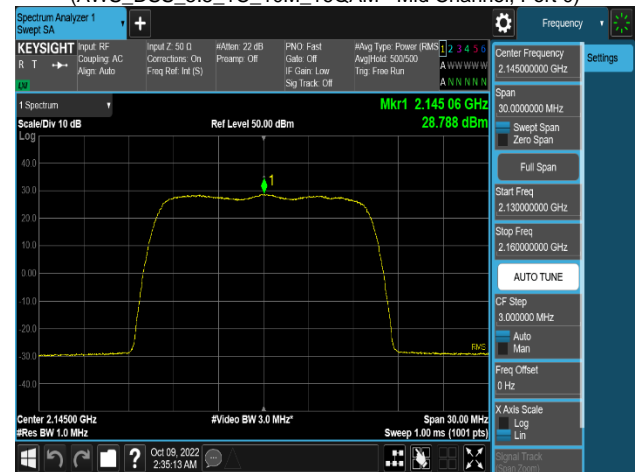
Plot 8-75. Power Spectral Density Plot
(AWS_DSS_5:5_1C_10M_QPSK - High Channel, Port 11)



Plot 8-76. Power Spectral Density Plot
(AWS_DSS_5:5_1C_10M_16QAM - Mid Channel, Port 0)

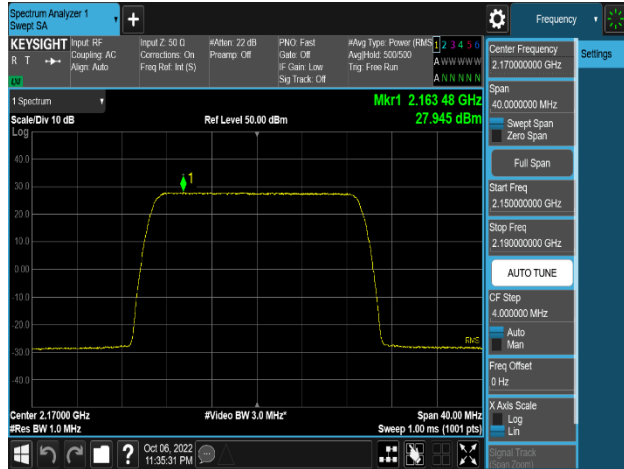


Plot 8-77. Power Spectral Density Plot
(AWS_DSS_9:1_1C_15M_QPSK - High Channel, Port 0)

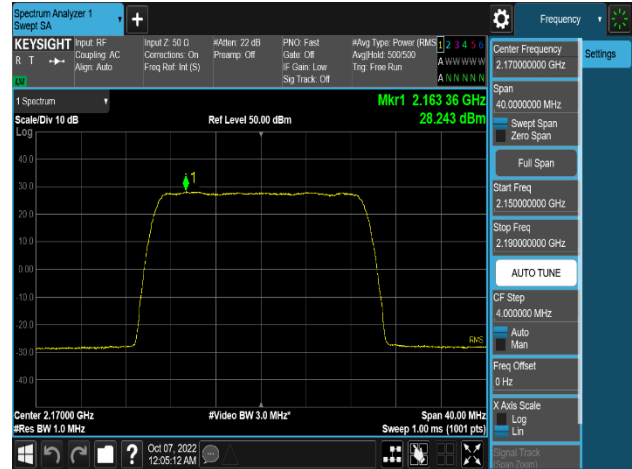


Plot 8-79. Power Spectral Density Plot
(AWS_DSS_9:1_1C_15M_16QAM - Mid Channel, Port 0)

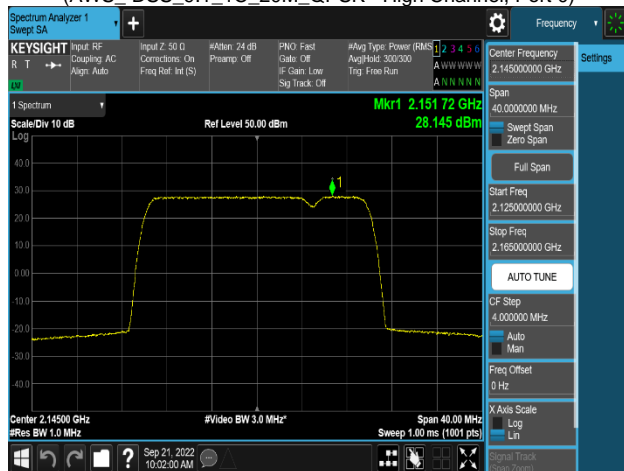
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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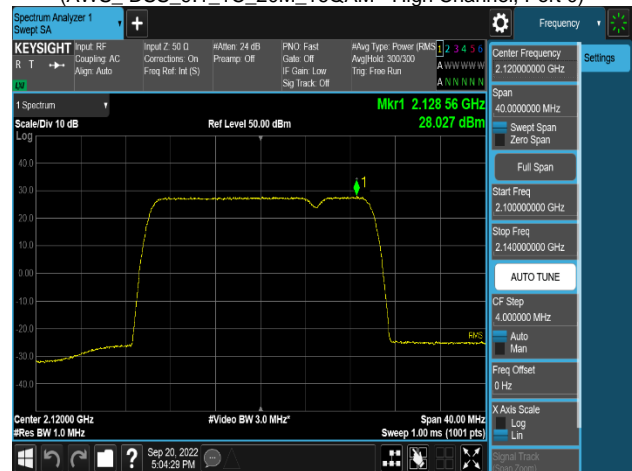
Plot 8-78. Power Spectral Density Plot
(AWS_DSS_9:1_1C_20M_QPSK - High Channel, Port 0)



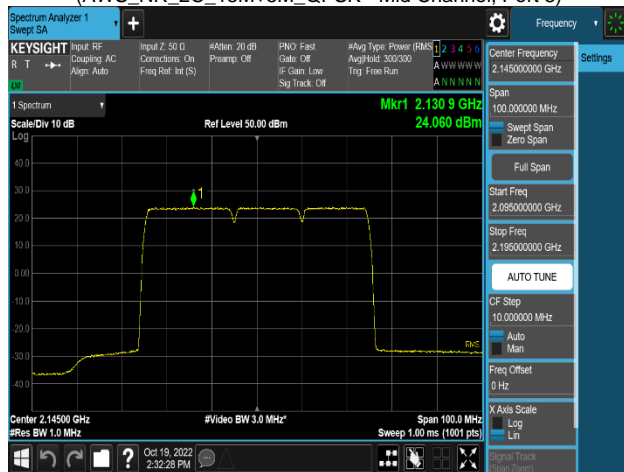
Plot 8-80. Power Spectral Density Plot
(AWS_DSS_9:1_1C_20M_16QAM - High Channel, Port 0)



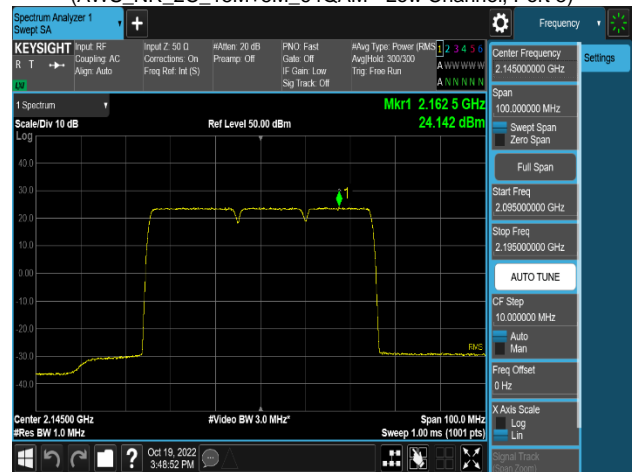
Plot 8-81. Power Spectral Density Plot
(AWS_NR_2C_15M+5M_QPSK - Mid Channel, Port 8)



Plot 8-82. Power Spectral Density Plot
(AWS_NR_2C_15M+5M_64QAM - Low Channel, Port 5)

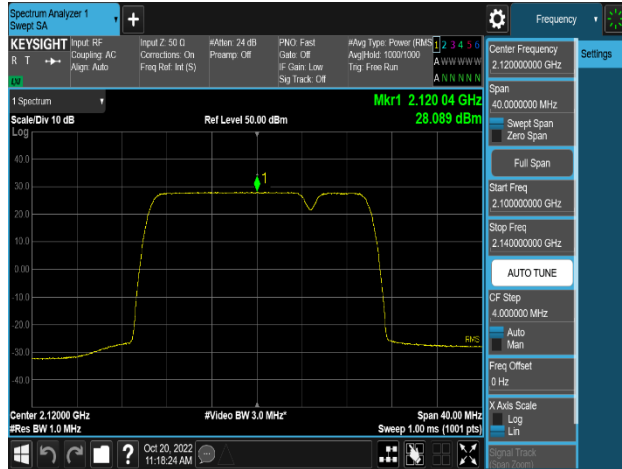


Plot 8-83. Power Spectral Density Plot
(AWS_NR_3C_20M+15M+15M_QPSK - Mid Channel, Port 0)

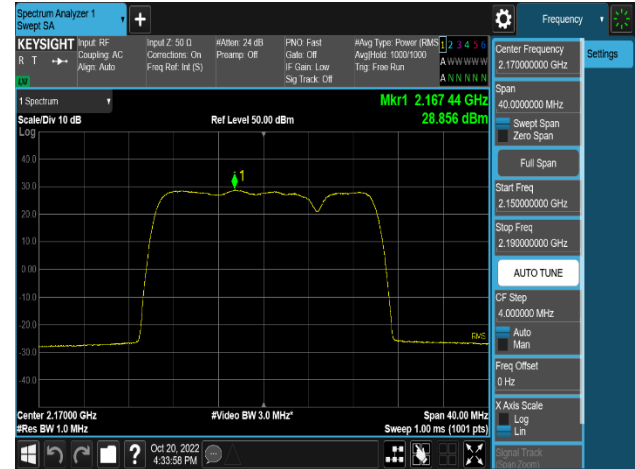


Plot 8-84. Power Spectral Density Plot
(AWS_NR_3C_20M+15M+15M_64QAM - Mid Channel, Port 0)

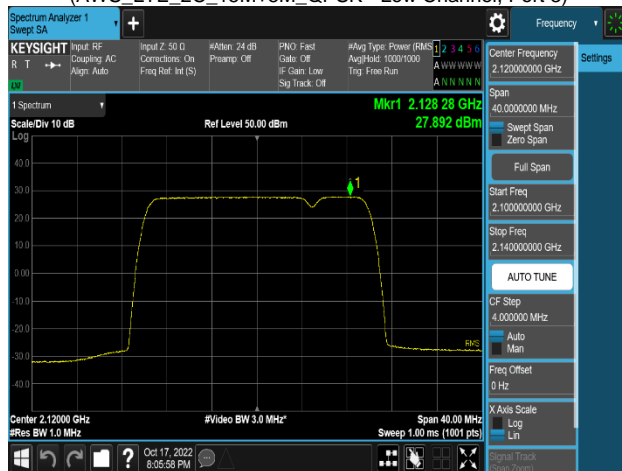
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 133 of 319



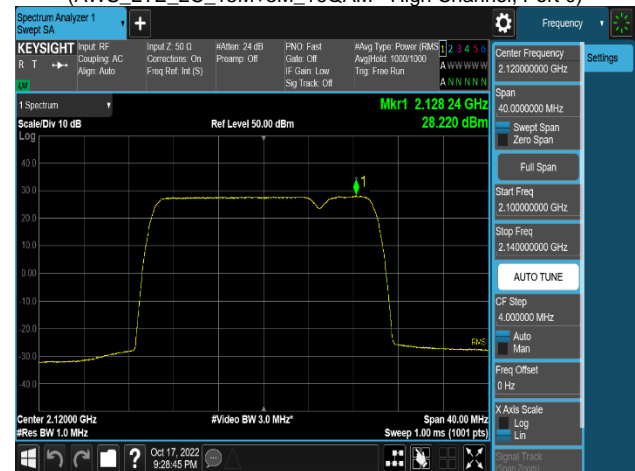
Plot 8-85. Power Spectral Density Plot
(AWS_LTE_2C_15M+5M_QPSK - Low Channel, Port 3)



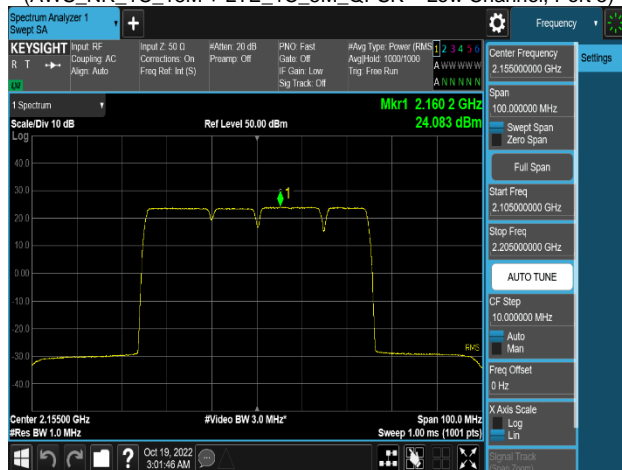
Plot 8-86. Power Spectral Density Plot
(AWS_LTE_2C_15M+5M_16QAM - High Channel, Port 0)



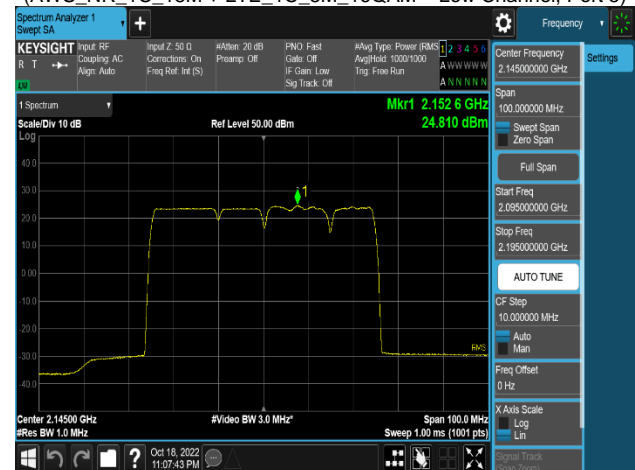
Plot 8-87. Power Spectral Density Plot
(AWS_NR_1C_15M + LTE_1C_5M_QPSK - Low Channel, Port 5)



Plot 8-88. Power Spectral Density Plot
(AWS_NR_1C_15M + LTE_1C_5M_16QAM - Low Channel, Port 5)

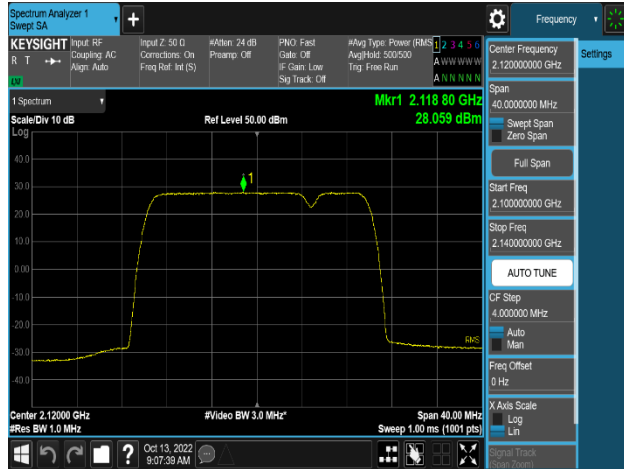


Plot 8-89. Power Spectral Density Plot
(AWS_NR_2C_15M+10M + LTE_2C_15M+10M_QPSK - High Channel, Port 0)

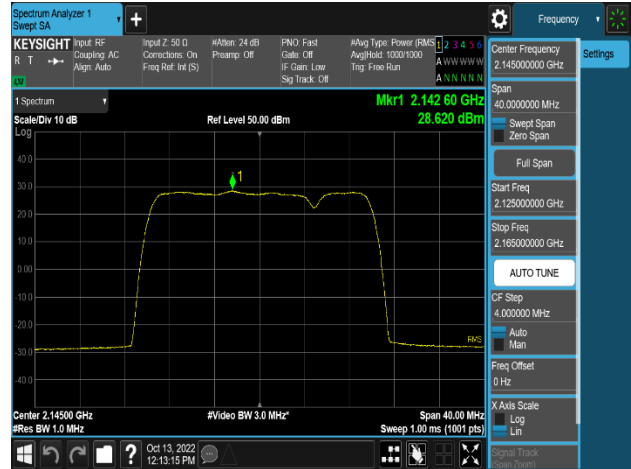


Plot 8-90. Power Spectral Density Plot
(AWS_NR_2C_15M+10M + LTE_2C_15M+10M_16QAM - Mid Channel, Port 0)

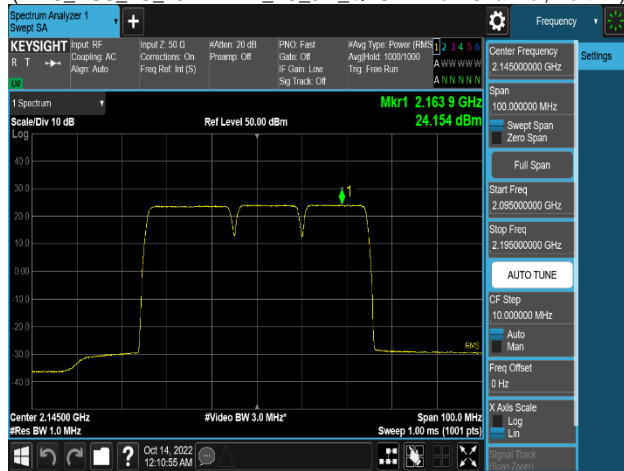
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 134 of 319



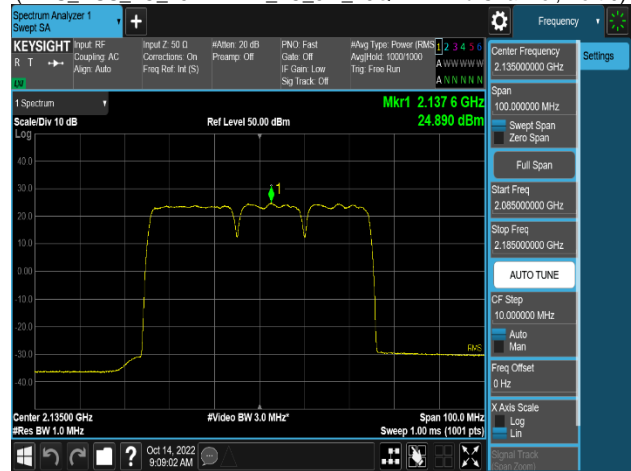
Plot 8-91. Power Spectral Density Plot
(AWS_DSS_1C_15M + LTE_1C_5M_QPSK – Low Channel, Port 12)



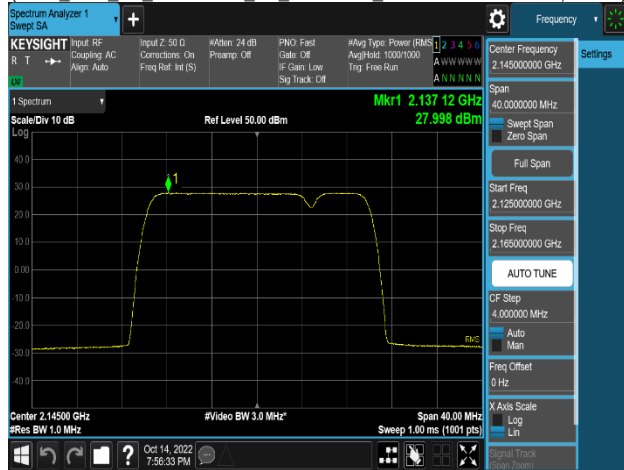
Plot 8-92. Power Spectral Density Plot
(AWS_DSS_1C_15M + LTE_1C_5M_16QAM – Mid Channel, Port 0)



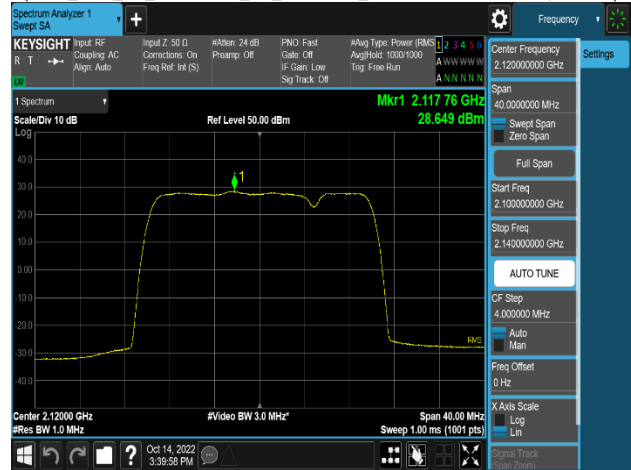
Plot 8-93. Power Spectral Density Plot
(AWS_DSS_1C_20M + LTE_2C_15M+15M_QPSK – Mid Channel, Port 0)



Plot 8-94. Power Spectral Density Plot
(AWS_DSS_1C_20M + LTE_2C_15M+15M_16QAM – Low Channel, Port 11)

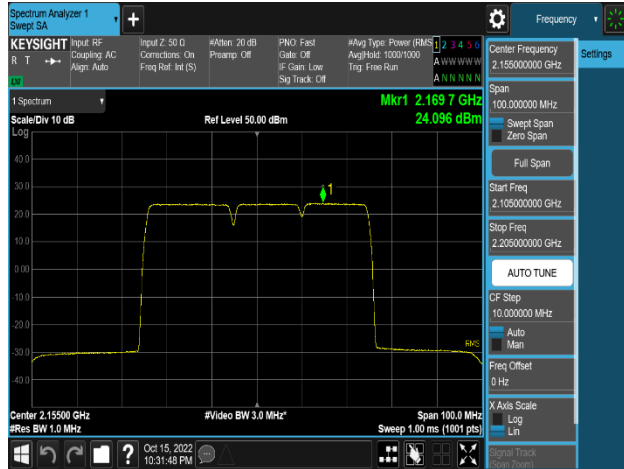


Plot 8-95. Power Spectral Density Plot
(AWS_DSS_1C_15M + NR_1C_5M_QPSK – Mid Channel, Port 0)



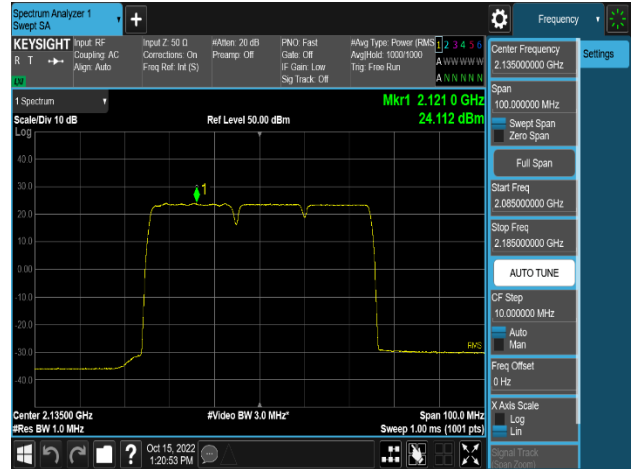
Plot 8-96. Power Spectral Density Plot
(AWS_DSS_1C_15M + NR_1C_5M_16QAM – Low Channel, Port 3)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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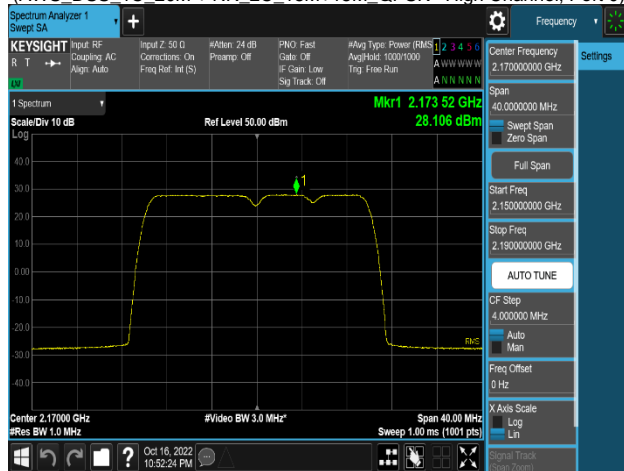
Plot 8-97. Power Spectral Density Plot

(AWS_DSS_1C_20M + NR_2C_15M+15M_QPSK –High Channel, Port 0)



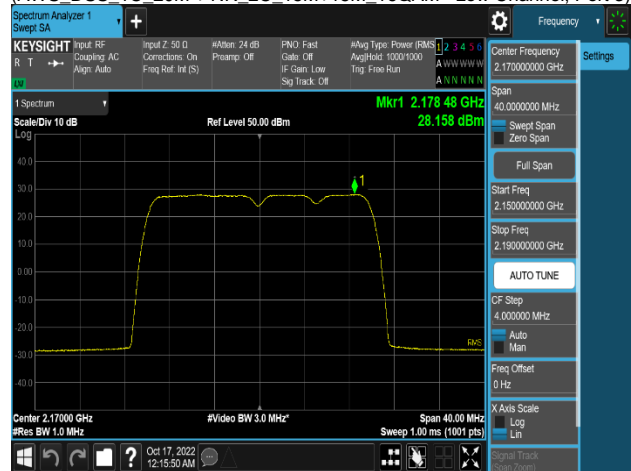
Plot 8-98. Power Spectral Density Plot

(AWS_DSS_1C_20M + NR_2C_15M+15M_16QAM –Low Channel, Port 3)



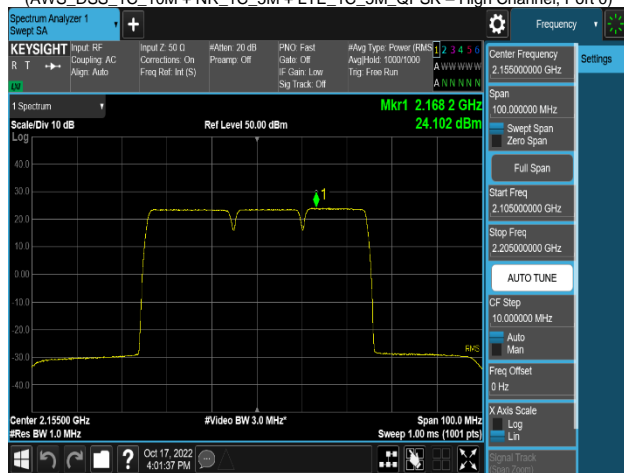
Plot 8-99. Power Spectral Density Plot

(AWS_DSS_1C_10M + NR_1C_5M + LTE_1C_5M_QPSK – High Channel, Port 0)



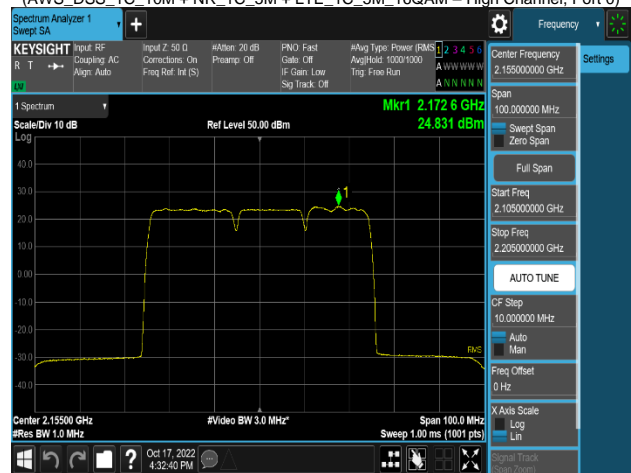
Plot 8-100. Power Spectral Density Plot

(AWS_DSS_1C_10M + NR_1C_5M + LTE_1C_5M_16QAM – High Channel, Port 0)



Plot 8-101. Power Spectral Density Plot

(AWS_DSS_1C_20M + NR_1C_15M + LTE_1C_15M_QPSK – High Channel, Port 0)



Plot 8-102. Power Spectral Density Plot

(AWS_DSS_1C_20M + NR_1C_15M + LTE_1C_15M_16QAM – High Channel, Port 0)

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8.4 Peak To Average Ratio

Test Overview

The peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7

ANSI C63.26-2015 – Section 5.2.3.4

Test Setting

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer setting were as follows:

1. The signal analyzer's CCDF function is enabled.
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

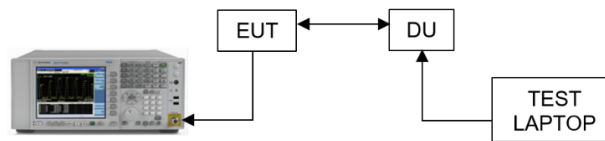




Figure 8-3. Test Instrument & Measurement Setup



Limit

The peak-to-average power ratio (PAPR) limit shall not exceed 13 dB for more than 0.1% of the time.

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Channel	Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM
Low	16	8.38	8.40	8.22	8.48
	17	8.38	8.36	8.25	8.49
	18	8.36	8.39	8.22	8.48
	19	8.35	8.38	8.24	8.50
	20	8.35	8.34	8.09	8.48
	21	8.39	8.36	8.09	8.52
	22	8.38	8.36	8.23	8.49
	23	8.37	8.36	8.07	8.51
	24	8.37	8.38	8.21	8.51
	25	8.36	8.37	8.24	8.49
	26	8.37	8.35	8.07	8.48
	27	8.38	8.36	8.14	8.51
	28	8.35	8.36	8.25	8.52
	29	8.34	8.41	8.09	8.51
	30	8.36	8.35	8.21	8.49
31	8.35	8.36	8.27	8.48	
Mid	16	8.40	8.30	8.22	8.49
	17	8.36	8.29	8.22	8.48
	18	8.36	8.31	8.26	8.51
	19	8.38	8.32	8.22	8.48
	20	8.38	8.33	8.26	8.47
	21	8.38	8.29	8.25	8.47
	22	8.38	8.29	8.22	8.49
	23	8.40	8.32	8.27	8.48
	24	8.37	8.30	8.23	8.50
	25	8.35	8.32	8.18	8.50
	26	8.39	8.32	8.21	8.49
	27	8.39	8.28	8.09	8.51
	28	8.37	8.32	8.27	8.49
	29	8.37	8.35	8.24	8.49
	30	8.39	8.33	8.26	8.46
31	8.38	8.35	8.24	8.49	
High	16	8.36	8.33	8.32	8.47
	17	8.37	8.33	8.24	8.50
	18	8.39	8.31	8.25	8.47
	19	8.34	8.33	8.22	8.50
	20	8.34	8.32	8.26	8.48
	21	8.37	8.35	8.27	8.52
	22	8.38	8.32	8.24	8.50
	23	8.35	8.34	8.25	8.51
	24	8.35	8.34	8.25	8.47
	25	8.36	8.32	8.28	8.46
	26	8.36	8.31	8.27	8.51
	27	8.38	8.31	8.24	8.48
	28	8.37	8.34	8.26	8.45
	29	8.34	8.31	8.25	8.48
	30	8.39	8.34	8.25	8.47
31	8.34	8.31	8.28	8.48	

Table 8-51. Peak To Average Power Ratio Summary Data (PCS_NR_1C_5M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM
Low	16	8.41	8.39	8.35	8.35
	17	8.40	8.38	8.40	8.37
	18	8.38	8.39	8.37	8.38
	19	8.43	8.36	8.48	8.39
	20	8.39	8.37	8.37	8.36
	21	8.42	8.40	8.34	8.36
	22	8.40	8.38	8.38	8.37
	23	8.39	8.38	8.38	8.38
	24	8.41	8.40	8.33	8.35
	25	8.42	8.39	8.35	8.36
	26	8.39	8.38	8.39	8.40
	27	8.39	8.36	8.37	8.37
	28	8.39	8.38	8.36	8.36
	29	8.42	8.40	8.36	8.37
	30	8.39	8.39	8.38	8.37
31	8.42	8.39	8.43	8.36	
Mid	16	8.39	8.35	8.37	8.39
	17	8.43	8.38	8.38	8.38
	18	8.40	8.38	8.40	8.36
	19	8.40	8.37	8.37	8.36
	20	8.41	8.36	8.39	8.34
	21	8.41	8.35	8.39	8.36
	22	8.38	8.36	8.37	8.39
	23	8.44	8.39	8.36	8.38
	24	8.40	8.37	8.38	8.37
	25	8.42	8.39	8.41	8.38
	26	8.41	8.38	8.36	8.39
	27	8.43	8.36	8.37	8.35
	28	8.39	8.36	8.36	8.37
	29	8.38	8.38	8.38	8.36
	30	8.40	8.37	8.40	8.35
31	8.40	8.38	8.36	8.38	
High	16	8.40	8.39	8.37	8.37
	17	8.40	8.39	8.39	8.35
	18	8.39	8.39	8.37	8.36
	19	8.40	8.39	8.35	8.34
	20	8.40	8.38	8.41	8.35
	21	8.39	8.37	8.40	8.36
	22	8.42	8.37	8.38	8.37
	23	8.40	8.39	8.38	8.37
	24	8.42	8.43	8.38	8.37
	25	8.44	8.33	8.37	8.38
	26	8.39	8.35	8.36	8.40
	27	8.40	8.40	8.38	8.36
	28	8.37	8.39	8.39	8.35
	29	8.43	8.36	8.37	8.35
	30	8.42	8.37	8.40	8.37
31	8.41	8.38	8.38	8.38	

Table 8-52. Peak To Average Power Ratio Summary Data (PCS_NR_1C_10M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM
Low	16	8.31	8.30	8.32	8.32
	17	8.27	8.32	8.31	8.33
	18	8.30	8.29	8.31	8.31
	19	8.30	8.30	8.33	8.31
	20	8.31	8.29	8.32	8.32
	21	8.31	8.30	8.32	8.31
	22	8.28	8.31	8.32	8.30
	23	8.28	8.29	8.32	8.32
	24	8.29	8.30	8.31	8.32
	25	8.31	8.31	8.31	8.32
	26	8.30	8.31	8.31	8.29
	27	8.29	8.30	8.33	8.32
	28	8.30	8.29	8.31	8.31
	29	8.30	8.30	8.31	8.31
	30	8.30	8.28	8.34	8.31
31	8.30	8.30	8.31	8.30	
Mid	16	8.31	8.31	8.35	8.32
	17	8.29	8.33	8.31	8.29
	18	8.32	8.31	8.31	8.31
	19	8.32	8.30	8.32	8.31
	20	8.30	8.29	8.34	8.32
	21	8.30	8.31	8.31	8.31
	22	8.30	8.28	8.32	8.28
	23	8.31	8.32	8.31	8.31
	24	8.31	8.30	8.31	8.28
	25	8.30	8.29	8.33	8.31
	26	8.31	8.31	8.31	8.31
	27	8.32	8.29	8.31	8.31
	28	8.31	8.44	8.33	8.32
	29	8.31	8.31	8.33	8.28
	30	8.31	8.30	8.33	8.31
31	8.30	8.30	8.31	8.32	
High	16	8.32	8.29	8.33	8.32
	17	8.29	8.32	8.31	8.34
	18	8.32	8.30	8.34	8.32
	19	8.32	8.31	8.32	8.30
	20	8.30	8.30	8.32	8.32
	21	8.29	8.31	8.31	8.32
	22	8.30	8.30	8.32	8.30
	23	8.31	8.30	8.32	8.31
	24	8.31	8.31	8.31	8.33
	25	8.30	8.31	8.32	8.33
	26	8.30	8.31	8.32	8.32
	27	8.30	8.30	8.33	8.30
	28	8.31	8.32	8.33	8.30
	29	8.30	8.29	8.32	8.31
	30	8.31	8.30	8.35	8.33
31	8.30	8.46	8.31	8.44	

Table 8-53. Peak To Average Power Ratio Summary Data (PCS_NR_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM
Low	16	7.70	7.71	7.72	7.71
	17	7.70	7.71	7.69	7.70
	18	7.70	7.68	7.69	7.69
	19	7.68	7.69	7.70	7.69
	20	7.70	7.68	7.71	7.71
	21	7.68	7.71	7.73	7.71
	22	7.68	7.69	7.70	7.69
	23	7.68	7.71	7.71	7.71
	24	7.69	7.70	7.70	7.69
	25	7.68	7.69	7.68	7.69
	26	7.69	7.69	7.72	7.71
	27	7.69	7.70	7.71	7.70
	28	7.69	7.69	7.71	7.70
	29	7.68	7.68	7.70	7.70
Mid	16	7.64	7.66	7.62	7.65
	17	7.63	7.65	7.62	7.65
	18	7.65	7.67	7.63	7.65
	19	7.63	7.65	7.63	7.65
	20	7.65	7.67	7.63	7.65
	21	7.64	7.66	7.64	7.66
	22	7.65	7.66	7.62	7.65
	23	7.64	7.66	7.62	7.64
	24	7.65	7.66	7.62	7.66
	25	7.63	7.66	7.63	7.65
	26	7.64	7.67	7.63	7.66
	27	7.63	7.67	7.62	7.65
	28	7.65	7.66	7.64	7.65
	29	7.63	7.66	7.63	7.66
High	16	7.66	7.66	7.63	7.65
	17	7.64	7.65	7.61	7.64
	18	7.64	7.66	7.61	7.64
	19	7.63	7.65	7.61	7.66
	20	7.65	7.68	7.63	7.65
	21	7.63	7.65	7.61	7.65
	22	7.65	7.66	7.63	7.65
	23	7.64	7.66	7.61	7.64
	24	7.65	7.66	7.62	7.65
	25	7.64	7.66	7.61	7.65
	26	7.64	7.66	7.61	7.65
	27	7.65	7.66	7.61	7.66
	28	7.65	7.66	7.62	7.66
	29	7.65	7.67	7.61	7.64
30	7.66	7.66	7.61	7.64	
31	7.64	7.66	7.61	7.66	

Table 8-54. Peak To Average Power Ratio Summary Data (PCS_NR_1C_20M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 141 of 319	

Channel	Ratio	Port	PAPR (dB)			
			QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	16	8.38	8.38	8.34	8.41
		17	8.35	8.40	8.35	8.40
		18	8.36	8.42	8.31	8.41
		19	8.37	8.41	8.35	8.40
		20	8.37	8.38	8.32	8.38
		21	8.36	8.40	8.34	8.41
		22	8.36	8.39	8.34	8.39
		23	8.34	8.40	8.34	8.43
		24	8.36	8.39	8.35	8.41
		25	8.37	8.41	8.32	8.43
		26	8.36	8.41	8.33	8.42
		27	8.36	8.37	8.33	8.41
		28	8.35	8.39	8.34	8.42
		29	8.40	8.40	8.33	8.42
		30	8.36	8.39	8.33	8.41
31		8.38	8.41	8.33	8.42	
Middle		16	8.34	8.40	8.35	8.40
		17	8.37	8.41	8.33	8.42
		18	8.37	8.42	8.34	8.41
		19	8.36	8.39	8.34	8.43
		20	8.38	8.42	8.35	8.43
		21	8.34	8.40	8.35	8.42
		22	8.33	8.39	8.36	8.42
		23	8.36	8.43	8.33	8.43
		24	8.36	8.41	8.33	8.44
		25	8.36	8.42	8.34	8.43
		26	8.37	8.40	8.33	8.43
		27	8.33	8.39	8.33	8.44
		28	8.36	8.42	8.36	8.41
		29	8.34	8.41	8.33	8.42
		30	8.37	8.40	8.35	8.44
31	8.34	8.43	8.33	8.42		
High	16	8.36	8.37	8.32	8.41	
	17	8.38	8.40	8.31	8.41	
	18	8.36	8.39	8.31	8.43	
	19	8.36	8.39	8.30	8.42	
	20	8.36	8.38	8.32	8.41	
	21	8.36	8.40	8.28	8.43	
	22	8.37	8.38	8.30	8.43	
	23	8.36	8.38	8.30	8.43	
	24	8.38	8.40	8.31	8.42	
	25	8.35	8.40	8.32	8.43	
	26	8.34	8.39	8.27	8.44	
	27	8.35	8.39	8.31	8.43	
	28	8.35	8.41	8.35	8.42	
	29	8.34	8.38	8.33	8.42	
	30	8.39	8.38	8.33	8.43	
31	8.38	8.38	8.31	8.44		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 142 of 319	

Low	LTE: 9 NR: 1	16	8.39	8.39	8.38	8.42
		17	8.39	8.40	8.37	8.39
		30	8.39	8.40	8.35	8.42
		31	8.37	8.41	8.34	8.41
Middle		16	8.37	8.35	8.34	8.41
		17	8.33	8.33	8.36	8.40
		30	8.39	8.33	8.37	8.39
		31	8.35	8.33	8.36	8.41
High		16	8.37	8.36	8.35	8.41
		17	8.37	8.36	8.36	8.39
		30	8.39	8.36	8.37	8.43
		31	8.36	8.35	8.35	8.39
Low	LTE: 2 NR: 8	16	8.39	8.34	8.35	8.41
		17	8.38	8.35	8.35	8.41
		30	8.38	8.31	8.34	8.43
		31	8.43	8.35	8.32	8.38
Middle		16	8.32	8.40	8.31	8.43
		17	8.36	8.43	8.35	8.42
		30	8.34	8.42	8.36	8.43
		31	8.35	8.42	8.34	8.43
High		16	8.36	8.39	8.32	8.41
		17	8.31	8.38	8.32	8.41
		30	8.35	8.37	8.32	8.42
		31	8.38	8.42	8.32	8.44

Table 8-55. Peak To Average Power Ratio Summary Data (PCS_DSS_1C_10M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 143 of 319	

Channel	Ratio	Port	PAPR (dB)			
			QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	16	8.33	8.31	8.40	8.37
		17	8.31	8.32	8.39	8.37
		18	8.28	8.34	8.40	8.35
		19	8.29	8.32	8.39	8.36
		20	8.30	8.31	8.38	8.36
		21	8.30	8.34	8.36	8.34
		22	8.32	8.33	8.38	8.36
		23	8.29	8.32	8.38	8.37
		24	8.30	8.31	8.37	8.37
		25	8.28	8.32	8.39	8.37
		26	8.30	8.34	8.38	8.37
		27	8.31	8.32	8.37	8.37
		28	8.32	8.32	8.38	8.37
		29	8.29	8.33	8.39	8.36
		30	8.31	8.34	8.36	8.36
31		8.31	8.33	8.39	8.34	
Middle		16	8.34	8.32	8.37	8.40
		17	8.29	8.30	8.38	8.36
		18	8.32	8.32	8.40	8.37
		19	8.28	8.31	8.39	8.36
		20	8.33	8.33	8.39	8.38
		21	8.29	8.30	8.40	8.35
		22	8.29	8.31	8.37	8.38
		23	8.29	8.33	8.39	8.37
		24	8.31	8.30	8.39	8.37
		25	8.31	8.32	8.38	8.36
		26	8.28	8.31	8.39	8.37
		27	8.29	8.31	8.38	8.39
		28	8.32	8.31	8.37	8.38
		29	8.31	8.34	8.38	8.36
		30	8.33	8.32	8.40	8.37
31	8.31	8.31	8.39	8.38		
High	16	8.34	8.30	8.40	8.39	
	17	8.31	8.31	8.38	8.39	
	18	8.34	8.32	8.41	8.40	
	19	8.31	8.30	8.39	8.40	
	20	8.31	8.31	8.39	8.38	
	21	8.31	8.32	8.38	8.41	
	22	8.32	8.30	8.41	8.40	
	23	8.29	8.30	8.40	8.39	
	24	8.30	8.30	8.41	8.39	
	25	8.32	8.32	8.41	8.39	
	26	8.30	8.30	8.40	8.38	
	27	8.31	8.33	8.37	8.40	
	28	8.31	8.32	8.40	8.39	
	29	8.31	8.30	8.37	8.39	
	30	8.30	8.30	8.40	8.41	
31	8.32	8.34	8.40	8.41		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 144 of 319	

Low	LTE: 9 NR: 1	16	8.37	8.35	8.36	8.30
		17	8.34	8.33	8.36	8.31
		30	8.33	8.35	8.34	8.31
		31	8.32	8.32	8.36	8.32
Middle		16	8.32	8.33	8.38	8.35
		17	8.29	8.32	8.39	8.32
		30	8.32	8.33	8.39	8.31
		31	8.33	8.32	8.38	8.32
High		16	8.34	8.32	8.36	8.32
		17	8.34	8.32	8.37	8.34
		30	8.35	8.33	8.38	8.37
		31	8.34	8.32	8.38	8.33
Low	LTE: 2 NR: 8	16	8.36	8.29	8.36	8.35
		17	8.30	8.29	8.35	8.34
		30	8.32	8.29	8.36	8.32
		31	8.32	8.29	8.35	8.36
Middle		16	8.30	8.30	8.37	8.35
		17	8.30	8.29	8.36	8.33
		30	8.32	8.29	8.38	8.34
		31	8.30	8.30	8.38	8.34
High		16	8.30	8.29	8.38	8.37
		17	8.31	8.27	8.39	8.37
		30	8.31	8.28	8.39	8.36
		31	8.31	8.29	8.39	8.36

Table 8-56. Peak To Average Power Ratio Summary Data (PCS_DSS_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 145 of 319	

Channel	Ratio	Port	PAPR (dB)			
			QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	16	7.80	7.83	7.83	7.82
		17	7.81	7.83	7.80	7.81
		18	7.79	7.81	7.80	7.81
		19	7.81	7.82	7.80	7.90
		20	7.81	7.82	7.80	7.90
		21	7.80	7.81	7.82	7.81
		22	7.79	7.81	7.81	7.80
		23	7.80	7.82	7.83	7.81
		24	7.80	7.82	7.81	7.82
		25	7.80	7.81	7.80	7.79
		26	7.80	7.83	7.81	7.82
		27	7.79	7.83	7.82	7.82
		28	7.80	7.81	7.82	7.81
		29	7.79	7.83	7.82	7.80
		30	7.80	7.81	7.81	7.81
31		7.81	7.83	7.83	7.82	
Middle		16	7.81	7.84	7.79	7.81
		17	7.78	7.82	7.80	7.82
		18	7.80	7.84	7.81	7.82
		19	7.81	7.84	7.80	7.81
		20	7.81	7.80	7.84	7.81
		21	7.79	7.85	7.80	7.82
		22	7.81	7.85	7.80	7.82
		23	7.79	7.84	7.81	7.82
		24	7.80	7.84	7.81	7.83
		25	7.81	7.85	7.81	7.82
		26	7.80	7.84	7.80	7.82
		27	7.79	7.83	7.82	7.83
		28	7.80	7.85	7.80	7.81
		29	7.80	7.84	7.83	7.83
		30	7.82	7.84	7.81	7.82
31	7.79	7.83	7.80	7.81		
High	16	7.77	7.83	7.80	7.80	
	17	7.79	7.83	7.80	7.80	
	18	7.79	7.82	7.81	7.81	
	19	7.80	7.84	7.81	7.83	
	20	7.80	7.84	7.81	7.83	
	21	7.79	7.84	7.81	7.81	
	22	7.80	7.83	7.81	7.81	
	23	7.81	7.83	7.81	7.83	
	24	7.80	7.84	7.81	7.81	
	25	7.79	7.84	7.82	8.00	
	26	7.79	7.83	7.81	7.81	
	27	7.80	7.83	7.82	7.94	
	28	7.79	7.83	7.81	7.81	
	29	7.79	7.86	7.82	7.81	
	30	7.78	7.83	7.81	7.80	
31	7.79	7.84	7.82	7.82		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Low	LTE: 9 NR: 1	16	7.84	7.85	7.83	7.84
		17	7.81	7.84	7.84	7.83
		30	7.81	7.79	7.84	7.82
		31	7.80	7.84	7.84	7.82
Middle		16	7.84	7.87	7.84	7.86
		17	7.82	7.86	7.83	7.83
		30	7.83	7.88	7.85	7.85
		31	7.81	7.86	7.86	7.85
High		16	7.84	7.87	7.85	7.86
		17	7.82	7.84	7.84	7.83
		30	7.84	7.87	7.85	7.85
		31	7.83	7.86	7.84	7.85
Low	LTE: 2 NR: 8	16	7.78	7.80	7.79	7.78
		17	7.79	7.77	7.77	7.76
		30	7.78	7.79	7.79	7.78
		31	7.76	7.79	7.78	7.80
Middle		16	7.76	7.79	7.76	7.79
		17	7.73	7.78	7.74	7.76
		30	7.77	7.78	7.77	7.77
		31	7.73	7.78	7.76	7.78
High		16	7.75	7.79	7.77	7.78
		17	7.74	7.77	7.76	7.77
		30	7.75	7.79	7.75	7.79
		31	7.73	7.79	7.75	7.77



Table 8-57. Peak To Average Power Ratio Summary Data (PCS_DSS_1C_20M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 147 of 319	

Configuration	Channel	Port	PAPR (dB)			
			QPSK	16QAM	64QAM	256QAM
NR_2C 15M+5M	Low	16	7.86	7.86	7.87	7.88
		17	7.83	7.86	7.86	7.86
		30	7.84	7.86	7.87	7.84
		31	7.82	7.85	7.87	7.86
	Middle	16	7.87	7.89	7.92	7.88
		17	7.87	7.92	7.89	7.90
		30	7.87	7.89	7.91	7.90
		31	7.87	7.90	7.91	7.90
	High	16	7.90	7.93	7.93	7.91
		17	7.88	7.91	7.92	7.92
		30	7.89	7.91	7.92	7.91
		31	7.87	7.92	7.92	7.92
NR_3C 10M+10M+10M	Low	16	8.22	8.22	8.22	8.20
		17	8.24	8.22	8.23	8.20
		30	8.19	8.23	8.23	8.22
		31	8.22	8.21	8.25	8.20
	Middle	16	7.72	7.72	7.72	7.69
		17	7.73	7.73	7.72	7.71
		30	7.72	7.73	7.73	7.71
		31	7.71	7.74	7.72	7.70
	High	16	7.70	7.74	7.71	7.73
		17	7.70	7.72	7.71	7.72
		30	7.69	7.72	7.71	7.72
		31	7.67	7.73	7.71	7.71
NR_1C_15M + LTE_1C_5M	Low	16	7.83	7.85	7.90	7.88
		17	7.84	7.84	7.86	7.84
		30	7.82	7.82	7.87	7.84
		31	7.84	7.83	7.88	7.86
	Middle	16	7.86	7.88	7.91	7.91
		17	7.87	7.88	7.89	7.90
		30	7.85	7.87	7.90	7.90
		31	7.87	7.90	7.88	7.90
	High	16	7.90	7.89	7.93	7.92
		17	7.87	7.92	7.91	7.92
		30	7.91	7.91	7.91	7.90
		31	7.88	7.89	7.90	7.91



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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NR_2C_10M+10M + LTE_1C_10M	Low	16	8.21	8.19	8.22	8.23
		17	8.20	8.22	8.21	8.21
		30	8.21	8.17	8.21	8.24
		31	8.20	8.18	8.20	8.22
	Middle	16	8.22	8.24	8.24	8.24
		17	8.20	8.24	8.24	8.23
		30	8.21	8.25	8.27	8.26
		31	8.23	8.23	8.23	8.22
	High	16	8.22	8.26	8.27	8.25
		17	8.22	8.22	8.22	8.24
		30	8.22	8.20	8.26	8.25
		31	8.21	8.24	8.27	8.24
DSS_1C_15M + LTE_1C_5M	Low	16	7.87	7.94	7.94	7.94
		17	7.86	7.94	7.91	7.91
		30	7.88	7.94	7.93	7.91
		31	7.88	7.93	7.92	7.93
	Middle	16	7.94	7.95	7.98	7.98
		17	7.93	7.98	7.99	7.97
		30	7.94	7.94	7.99	7.96
		31	7.95	7.97	7.99	7.99
	High	16	7.97	8.01	7.97	8.02
		17	7.96	7.97	7.99	8.00
		30	7.96	7.99	8.03	7.99
		31	7.97	7.98	7.98	8.01
DSS_1C_15M + LTE_1C_15M	Low	16	7.79	7.81	7.82	7.94
		17	7.80	7.78	7.80	7.94
		30	7.79	7.79	7.80	7.91
		31	7.81	7.84	7.82	7.95
	Middle	16	7.94	7.95	7.95	7.92
		17	7.94	7.96	7.96	7.94
		30	7.97	7.97	7.95	7.93
		31	7.94	7.92	7.97	7.92
	High	16	7.90	7.94	7.93	7.93
		17	7.94	7.94	7.97	7.95
		30	7.92	7.95	7.94	7.94
		31	7.92	7.94	7.95	7.94

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DSS_1C_15M + NR_1C_5M	Low	16	7.90	7.93	7.92	7.90
		17	7.90	7.91	7.91	7.92
		30	7.87	7.92	7.92	7.92
		31	7.90	7.92	7.93	7.92
	Middle	16	7.93	7.96	7.97	8.05
		17	7.95	7.97	7.98	7.96
		30	7.93	7.97	7.97	7.97
		31	7.96	7.97	7.98	7.98
	High	16	7.98	8.01	7.99	7.98
		17	7.94	7.98	7.99	7.97
		30	7.96	7.97	7.99	7.96
		31	7.93	8.00	7.98	7.99
DSS_1C_15M + NR_1C_15M	Low	16	7.99	7.99	8.00	7.97
		17	7.95	7.99	7.98	7.98
		30	7.95	7.98	8.09	7.96
		31	7.97	8.01	7.99	7.98
	Middle	16	7.95	7.96	7.94	7.95
		17	7.92	7.93	7.97	7.94
		30	7.90	7.96	7.97	7.94
		31	7.92	7.95	7.97	7.95
	High	16	7.91	7.96	7.94	7.94
		17	7.91	8.07	7.96	7.94
		30	7.92	7.94	7.93	7.96
		31	7.92	8.06	7.97	7.95

Table 8-58. Peak To Average Power Ratio Summary Data (PCS_Multi-Carrier)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM
Low	0	8.37	8.30	8.29	8.46
	1	8.36	8.32	8.25	8.49
	2	8.36	8.30	8.24	8.48
	3	8.37	8.32	8.27	8.47
	4	8.37	8.34	8.31	8.47
	5	8.35	8.31	8.22	8.48
	6	8.36	8.34	8.25	8.46
	7	8.36	8.32	8.29	8.47
	8	8.36	8.32	8.28	8.45
	9	8.35	8.32	8.24	8.49
	10	8.34	8.33	8.26	8.49
	11	8.36	8.33	8.29	8.46
	12	8.36	8.32	8.25	8.48
	13	8.36	8.32	8.29	8.45
	14	8.36	8.30	8.25	8.48
15	8.36	8.32	8.29	8.45	
Mid	0	8.44	8.32	8.30	8.36
	1	8.38	8.32	8.29	8.34
	2	8.38	8.32	8.30	8.34
	3	8.34	8.33	8.28	8.35
	4	8.41	8.33	8.30	8.32
	5	8.37	8.32	8.29	8.35
	6	8.38	8.31	8.31	8.36
	7	8.36	8.33	8.30	8.34
	8	8.39	8.34	8.30	8.32
	9	8.36	8.34	8.26	8.37
	10	8.39	8.32	8.31	8.32
	11	8.37	8.32	8.29	8.35
	12	8.39	8.33	8.28	8.32
	13	8.38	8.35	8.29	8.34
	14	8.39	8.31	8.33	8.35
15	8.40	8.31	8.29	8.33	
High	0	8.37	8.31	8.27	8.35
	1	8.36	8.30	8.28	8.34
	2	8.33	8.33	8.29	8.35
	3	8.36	8.33	8.28	8.33
	4	8.38	8.31	8.31	8.34
	5	8.33	8.32	8.25	8.35
	6	8.34	8.34	8.32	8.33
	7	8.36	8.31	8.26	8.33
	8	8.35	8.31	8.26	8.33
	9	8.33	8.33	8.29	8.34
	10	8.37	8.46	8.30	8.33
	11	8.35	8.39	8.30	8.32
	12	8.34	8.47	8.24	8.32
	13	8.36	8.34	8.26	8.34
	14	8.35	8.31	8.30	8.34
15	8.36	8.34	8.29	8.33	

Table 8-59. Peak To Average Power Ratio Summary Data (AWS_NR_1C_5M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM
Low	0	8.38	8.39	8.33	8.40
	1	8.37	8.41	8.35	8.43
	2	8.40	8.42	8.34	8.40
	3	8.39	8.39	8.36	8.43
	4	8.36	8.40	8.36	8.43
	5	8.38	8.42	8.35	8.42
	6	8.36	8.38	8.36	8.41
	7	8.40	8.41	8.35	8.43
	8	8.38	8.39	8.33	8.40
	9	8.38	8.40	8.36	8.45
	10	8.37	8.40	8.32	8.45
	11	8.38	8.40	8.35	8.43
	12	8.37	8.39	8.34	8.39
	13	8.39	8.40	8.34	8.44
	14	8.39	8.41	8.36	8.43
15	8.38	8.41	8.33	8.38	
Mid	0	8.41	8.39	8.36	8.39
	1	8.41	8.42	8.38	8.40
	2	8.38	8.41	8.38	8.39
	3	8.39	8.38	8.38	8.43
	4	8.41	8.39	8.37	8.44
	5	8.38	8.41	8.35	8.43
	6	8.40	8.42	8.34	8.45
	7	8.39	8.41	8.40	8.42
	8	8.38	8.41	8.39	8.42
	9	8.40	8.41	8.38	8.42
	10	8.40	8.41	8.39	8.42
	11	8.41	8.41	8.36	8.41
	12	8.39	8.41	8.37	8.42
	13	8.39	8.40	8.39	8.42
	14	8.40	8.44	8.37	8.41
15	8.42	8.41	8.36	8.42	
High	0	8.40	8.38	8.37	8.43
	1	8.39	8.41	8.33	8.43
	2	8.37	8.42	8.38	8.36
	3	8.38	8.41	8.37	8.42
	4	8.40	8.42	8.38	8.41
	5	8.40	8.42	8.37	8.39
	6	8.40	8.39	8.37	8.40
	7	8.38	8.40	8.39	8.42
	8	8.39	8.38	8.36	8.40
	9	8.40	8.39	8.35	8.42
	10	8.38	8.41	8.38	8.42
	11	8.39	8.40	8.38	8.41
	12	8.41	8.39	8.36	8.40
	13	8.39	8.40	8.38	8.44
	14	8.40	8.40	8.37	8.41
15	8.38	8.40	8.38	8.41	

Table 8-60. Peak To Average Power Ratio Summary Data (AWS_NR_1C_10M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM
Low	0	8.29	8.26	8.31	8.26
	1	8.30	8.26	8.31	8.26
	2	8.29	8.27	8.31	8.29
	3	8.31	8.27	8.32	8.28
	4	8.30	8.25	8.29	8.29
	5	8.32	8.22	8.32	8.28
	6	8.32	8.26	8.30	8.29
	7	8.30	8.28	8.32	8.29
	8	8.31	8.27	8.31	8.27
	9	8.31	8.25	8.30	8.25
	10	8.32	8.26	8.31	8.30
	11	8.30	8.24	8.32	8.30
	12	8.31	8.26	8.29	8.28
	13	8.30	8.26	8.31	8.27
	14	8.30	8.27	8.30	8.29
15	8.32	8.24	8.29	8.30	
Mid	0	8.26	8.24	8.31	8.28
	1	8.27	8.26	8.30	8.29
	2	8.28	8.26	8.31	8.30
	3	8.24	8.26	8.32	8.31
	4	8.28	8.26	8.30	8.30
	5	8.27	8.25	8.32	8.28
	6	8.28	8.25	8.31	8.30
	7	8.28	8.25	8.32	8.28
	8	8.27	8.26	8.31	8.29
	9	8.25	8.27	8.31	8.31
	10	8.28	8.25	8.32	8.29
	11	8.28	8.24	8.31	8.30
	12	8.27	8.26	8.31	8.30
	13	8.25	8.25	8.31	8.30
	14	8.29	8.25	8.31	8.29
15	8.27	8.26	8.30	8.29	
High	0	8.25	8.25	8.30	8.29
	1	8.27	8.24	8.30	8.29
	2	8.27	8.24	8.31	8.30
	3	8.28	8.25	8.31	8.30
	4	8.27	8.25	8.30	8.29
	5	8.28	8.26	8.32	8.31
	6	8.27	8.27	8.30	8.30
	7	8.26	8.24	8.31	8.28
	8	8.28	8.26	8.32	8.31
	9	8.27	8.26	8.32	8.29
	10	8.27	8.26	8.31	8.30
	11	8.26	8.25	8.31	8.31
	12	8.27	8.26	8.32	8.31
	13	8.29	8.24	8.32	8.28
	14	8.28	8.25	8.31	8.31
15	8.28	8.24	8.30	8.30	

Table 8-61. Peak To Average Power Ratio Summary Data (AWS_NR_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM
Low	0	7.61	7.65	7.64	7.65
	1	7.60	7.65	7.63	7.66
	2	7.62	7.65	7.64	7.66
	3	7.61	7.65	7.65	7.66
	4	7.60	7.66	7.64	7.67
	5	7.60	7.66	7.64	7.64
	6	7.62	7.65	7.64	7.66
	7	7.62	7.65	7.65	7.65
	8	7.61	7.66	7.65	7.64
	9	7.61	7.65	7.65	7.64
	10	7.63	7.65	7.63	7.64
	11	7.60	7.64	7.66	7.64
	12	7.63	7.65	7.64	7.65
	13	7.63	7.67	7.66	7.65
	14	7.62	7.65	7.65	7.87
15	7.62	7.65	7.65	7.65	
Mid	0	7.62	7.65	7.61	7.65
	1	7.62	7.66	7.62	7.65
	2	7.63	7.67	7.63	7.63
	3	7.63	7.66	7.63	7.65
	4	7.64	7.66	7.62	7.65
	5	7.64	7.66	7.62	7.65
	6	7.63	7.65	7.62	7.64
	7	7.63	7.66	7.62	7.65
	8	7.61	7.67	7.63	7.65
	9	7.62	7.66	7.63	7.65
	10	7.63	7.65	7.63	7.65
	11	7.63	7.65	7.63	7.63
	12	7.64	7.67	7.63	7.66
	13	7.62	7.67	7.62	7.66
	14	7.63	7.66	7.62	7.66
15	7.64	7.65	7.61	7.66	
High	0	7.64	7.63	7.63	7.66
	1	7.64	7.64	7.62	7.65
	2	7.64	7.64	7.62	7.67
	3	7.64	7.64	7.62	7.67
	4	7.64	7.63	7.64	7.65
	5	7.64	7.64	7.61	7.66
	6	7.64	7.63	7.62	7.65
	7	7.64	7.64	7.62	7.65
	8	7.63	7.64	7.62	7.67
	9	7.64	7.64	7.63	7.67
	10	7.64	7.63	7.62	7.66
	11	7.63	7.64	7.63	7.65
	12	7.63	7.64	7.62	7.66
	13	7.65	7.64	7.62	7.65
	14	7.64	7.64	7.63	7.66
15	7.64	7.65	7.62	7.64	

Table 8-62. Peak To Average Power Ratio Summary Data (AWS_NR_1C_20M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Ratio	Port	PAPR (dB)			
			QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	0	8.44	8.43	8.41	8.44
		1	8.43	8.39	8.40	8.45
		2	8.40	8.40	8.44	8.47
		3	8.41	8.42	8.41	8.45
		4	8.40	8.43	8.41	8.45
		5	8.44	8.41	8.39	8.46
		6	8.40	8.38	8.39	8.47
		7	8.42	8.43	8.41	8.46
		8	8.41	8.42	8.43	8.45
		9	8.42	8.42	8.42	8.48
		10	8.41	8.41	8.42	8.45
		11	8.42	8.44	8.41	8.45
		12	8.40	8.38	8.39	8.47
		13	8.41	8.41	8.41	8.45
		14	8.42	8.38	8.42	8.49
15	8.40	8.39	8.40	8.46		
Middle	LTE:5 NR:5	0	8.37	8.38	8.40	8.42
		1	8.40	8.38	8.42	8.45
		2	8.41	8.40	8.40	8.46
		3	8.39	8.40	8.41	8.42
		4	8.40	8.40	8.42	8.41
		5	8.41	8.40	8.41	8.47
		6	8.39	8.40	8.41	8.44
		7	8.41	8.39	8.38	8.42
		8	8.38	8.39	8.39	8.45
		9	8.40	8.39	8.41	8.42
		10	8.38	8.39	8.41	8.45
		11	8.41	8.39	8.41	8.43
		12	8.37	8.38	8.43	8.45
		13	8.40	8.38	8.44	8.44
		14	8.40	8.38	8.43	8.44
15	8.39	8.38	8.41	8.42		
High	LTE:5 NR:5	0	8.42	8.39	8.34	8.42
		1	8.41	8.38	8.32	8.42
		2	8.41	8.41	8.33	8.43
		3	8.40	8.39	8.36	8.42
		4	8.42	8.39	8.35	8.40
		5	8.40	8.40	8.34	8.43
		6	8.42	8.39	8.33	8.42
		7	8.40	8.38	8.33	8.39
		8	8.43	8.39	8.34	8.45
		9	8.40	8.38	8.32	8.41
		10	8.41	8.41	8.36	8.44
		11	8.41	8.41	8.34	8.40
		12	8.42	8.40	8.34	8.41
		13	8.43	8.40	8.35	8.39
		14	8.42	8.40	8.33	8.43
15	8.40	8.40	8.35	8.42		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Low	LTE: 9 NR: 1	0	8.38	8.34	8.43	8.48
		1	8.45	8.34	8.40	8.46
		14	8.43	8.32	8.41	8.45
		15	8.39	8.34	8.41	8.46
Middle		0	8.41	8.32	8.41	8.45
		1	8.41	8.33	8.41	8.43
		14	8.42	8.32	8.41	8.44
		15	8.42	8.32	8.41	8.46
High		0	8.45	8.33	8.37	8.45
		1	8.40	8.34	8.39	8.46
		14	8.41	8.32	8.38	8.47
		15	8.46	8.33	8.37	8.45
Low	LTE: 2 NR: 8	0	8.39	8.34	8.42	8.46
		1	8.44	8.35	8.40	8.46
		14	8.43	8.35	8.41	8.44
		15	8.39	8.33	8.41	8.46
Middle		0	8.41	8.33	8.38	8.45
		1	8.42	8.34	8.41	8.43
		14	8.46	8.34	8.39	8.44
		15	8.43	8.36	8.39	8.42
High		0	8.47	8.34	8.42	8.45
		1	8.42	8.34	8.42	8.45
		14	8.45	8.32	8.42	8.44
		15	8.47	8.33	8.44	8.43

Table 8-63. Peak To Average Power Ratio Summary Data (AWS_DSS_1C_10M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Ratio	Port	PAPR (dB)			
			QPSK	16QAM	64QAM	256QAM
Low		0	8.33	8.34	8.30	8.29
		1	8.30	8.37	8.29	8.31
		2	8.31	8.36	8.31	8.29
		3	8.33	8.36	8.32	8.31
		4	8.30	8.36	8.31	8.30
		5	8.30	8.36	8.30	8.29
		6	8.31	8.35	8.30	8.30
		7	8.29	8.35	8.31	8.30
		8	8.28	8.35	8.33	8.28
		9	8.31	8.39	8.31	8.31
		10	8.31	8.36	8.31	8.29
		11	8.29	8.37	8.31	8.30
		12	8.30	8.37	8.32	8.29
		13	8.31	8.35	8.30	8.28
		14	8.31	8.36	8.31	8.27
Middle	LTE:5 NR:5	15	8.33	8.33	8.33	8.31
		0	8.34	8.34	8.32	8.29
		1	8.36	8.33	8.34	8.31
		2	8.32	8.34	8.33	8.29
		3	8.34	8.34	8.31	8.31
		4	8.31	8.34	8.32	8.30
		5	8.33	8.35	8.32	8.30
		6	8.33	8.33	8.33	8.30
		7	8.36	8.32	8.32	8.30
		8	8.34	8.33	8.33	8.31
		9	8.31	8.36	8.32	8.31
		10	8.34	8.35	8.33	8.33
		11	8.33	8.35	8.32	8.30
		12	8.34	8.34	8.35	8.31
		13	8.35	8.33	8.33	8.31
High		14	8.30	8.34	8.33	8.32
		15	8.32	8.34	8.34	8.33
		0	8.33	8.34	8.32	8.32
		1	8.31	8.35	8.32	8.29
		2	8.34	8.33	8.33	8.32
		3	8.34	8.35	8.33	8.31
		4	8.31	8.36	8.33	8.31
		5	8.33	8.34	8.32	8.35
		6	8.32	8.35	8.31	8.33
		7	8.33	8.35	8.34	8.33
		8	8.32	8.35	8.34	8.32
		9	8.33	8.36	8.33	8.34
		10	8.32	8.36	8.33	8.32
		11	8.32	8.36	8.33	8.33
		12	8.33	8.34	8.32	8.34
13	8.33	8.34	8.30	8.29		
14	8.30	8.37	8.29	8.31		
15	8.31	8.36	8.31	8.29		



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Low	LTE: 9 NR: 1	0	8.31	8.36	8.29	8.32	
		1	8.30	8.38	8.28	8.34	
		14	8.32	8.34	8.29	8.34	
		15	8.31	8.37	8.28	8.34	
Middle		0	8.33	8.33	8.31	8.34	
		1	8.34	8.36	8.30	8.36	
		14	8.35	8.35	8.30	8.38	
		15	8.34	8.34	8.30	8.34	
High		0	8.36	8.34	8.31	8.33	
		1	8.36	8.34	8.30	8.35	
		14	8.38	8.36	8.31	8.36	
		15	8.37	8.37	8.30	8.32	
Low		LTE: 2 NR: 8	0	8.34	8.37	8.31	8.34
			1	8.35	8.36	8.30	8.35
			14	8.33	8.39	8.30	8.34
			15	8.37	8.39	8.29	8.37
Middle	0		8.35	8.36	8.31	8.33	
	1		8.34	8.35	8.30	8.33	
	14		8.36	8.36	8.31	8.35	
	15		8.36	8.36	8.31	8.36	
High	0		8.35	8.37	8.30	8.35	
	1		8.36	8.34	8.30	8.37	
	14		8.37	8.37	8.30	8.35	
	15		8.37	8.36	8.30	8.33	

Table 8-64. Peak To Average Power Ratio Summary Data (AWS_DSS_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Ratio	Port	PAPR (dB)			
			QPSK	16QAM	64QAM	256QAM
Low		0	7.79	7.80	7.80	7.83
		1	7.77	7.80	7.82	7.80
		2	7.78	7.81	7.83	7.81
		3	7.80	7.80	7.81	7.81
		4	7.79	7.80	7.80	7.81
		5	7.77	7.81	7.83	7.82
		6	7.77	7.80	7.81	7.81
		7	7.79	7.80	7.81	7.80
		8	7.80	7.80	7.79	7.83
		9	7.80	7.80	7.81	7.82
		10	7.77	7.80	7.83	7.81
		11	7.82	7.79	7.81	7.81
		12	7.80	7.81	7.81	7.80
		13	7.79	7.80	7.81	7.81
		14	7.77	7.79	7.81	7.80
Middle	LTE:5 NR:5	0	7.80	7.80	7.81	7.81
		1	7.80	7.80	7.81	7.80
		2	7.83	7.80	7.79	7.80
		3	7.81	7.80	7.81	7.81
		4	7.80	7.81	7.81	7.80
		5	7.79	7.80	7.81	7.81
		6	7.81	7.79	7.80	7.82
		7	7.80	7.80	7.81	7.81
		8	7.80	7.80	7.81	7.80
		9	7.80	7.80	7.81	7.81
		10	7.80	7.81	7.81	7.80
		11	7.81	7.81	7.80	7.80
		12	7.81	7.82	7.80	7.81
		13	7.80	7.79	7.81	7.81
		14	7.81	7.80	7.81	7.83
High		0	7.79	7.81	7.79	7.82
		1	7.80	7.83	7.81	7.83
		2	7.81	7.82	7.80	7.82
		3	7.81	7.82	7.80	7.82
		4	7.80	7.81	7.80	7.82
		5	7.80	7.83	7.82	7.82
		6	7.79	7.83	7.81	7.81
		7	7.80	7.83	7.80	7.84
		8	7.80	7.82	7.81	7.83
		9	7.80	7.82	7.81	7.84
		10	7.79	7.82	7.83	7.82
		11	7.79	7.80	7.78	7.82
		12	7.79	7.83	7.81	7.82
		13	7.79	7.80	7.80	7.83
		14	7.77	7.80	7.82	7.80
15	7.78	7.81	7.83	7.81		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Low	LTE: 9 NR: 1	0	7.82	7.84	7.82	7.87
		1	7.84	7.84	7.83	7.86
		14	7.84	7.85	7.82	7.87
		15	7.84	7.84	7.83	7.87
Middle		0	7.85	7.86	7.83	7.87
		1	7.85	7.86	7.84	7.89
		14	7.84	7.86	7.84	7.86
		15	7.84	7.86	7.84	7.88
High		0	7.85	7.86	7.83	7.88
		1	7.84	7.85	7.83	7.86
		14	7.84	7.87	7.85	7.88
		15	7.85	7.87	7.84	7.88
Low	LTE: 2 NR: 8	0	7.83	7.83	7.81	7.84
		1	7.84	7.85	7.82	7.85
		14	7.84	7.85	7.83	7.84
		15	7.85	7.85	7.82	7.85
Middle		0	7.85	7.87	7.84	7.88
		1	7.86	7.86	7.84	7.87
		14	7.86	7.87	7.83	7.87
		15	7.86	7.87	7.84	7.88
High		0	7.84	7.86	7.81	7.88
		1	7.85	7.87	7.81	7.87
		14	7.86	7.86	7.81	7.86
		15	7.86	7.87	7.81	7.87



Table 8-65. Peak To Average Power Ratio Summary Data (AWS_DSS_1C_20M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Configuration	Channel	Port	PAPR (dB)			
			QPSK	16QAM	64QAM	256QAM
NR_2C 15M+5M	Low	0	7.81	7.85	7.85	7.84
		1	7.82	7.84	7.87	7.86
		14	7.81	7.85	7.85	7.86
		15	7.83	7.83	7.87	7.85
	Middle	0	7.86	7.88	7.91	7.91
		1	7.84	7.91	7.91	7.92
		14	7.85	7.88	7.91	7.91
		15	7.84	7.90	7.91	7.91
	High	0	7.86	7.91	7.90	7.91
		1	7.85	7.90	7.90	7.92
		14	7.87	7.91	7.91	7.90
		15	7.87	7.90	7.90	7.91
NR_3C 20M+15M+15M	Low	0	8.21	8.26	8.26	8.27
		1	8.20	8.23	8.25	8.28
		14	8.21	8.26	8.24	8.27
		15	8.21	8.25	8.21	8.28
	Middle	0	8.27	8.25	8.25	8.27
		1	8.24	8.29	8.29	8.30
		14	8.27	8.27	8.26	8.29
		15	8.24	8.26	8.30	8.28
	High	0	8.26	8.29	8.32	8.28
		1	8.25	8.27	8.29	8.32
		14	8.27	8.28	8.30	8.29
		15	8.27	8.27	8.27	8.31
LTE_2C 15M+5M	Low	0	7.78	7.84	7.81	7.82
		1	7.79	7.84	7.82	7.83
		14	7.76	7.83	7.80	7.81
		15	7.80	7.85	7.82	7.84
	Middle	0	7.86	7.88	7.87	7.88
		1	7.85	7.88	7.85	7.87
		14	7.84	7.88	7.86	7.89
		15	7.85	7.87	7.87	7.86
	High	0	7.89	7.89	7.90	7.90
		1	7.88	7.90	7.90	7.92
		14	7.89	7.88	7.88	7.89
		15	7.89	7.91	7.89	7.91

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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NR_1C_15M + LTE_1C_5M	Low	0	7.80	7.87	7.86	7.86
		1	7.85	7.82	7.87	7.89
		14	7.82	7.86	7.85	7.87
		15	7.82	7.85	7.86	7.87
	Middle	0	7.86	7.88	7.91	7.90
		1	7.84	7.89	7.90	7.92
		14	7.84	7.88	7.92	7.90
		15	7.82	7.86	7.91	7.91
	High	0	7.86	7.91	7.92	7.93
		1	7.87	7.90	7.92	7.93
		14	7.85	7.91	7.91	7.93
		15	7.87	7.89	7.92	7.92
NR_2C_15M+10M + LTE_2C_15M+10M	Low	0	8.24	8.23	8.26	8.28
		1	8.28	8.27	8.23	8.27
		14	8.24	8.28	8.25	8.28
		15	8.27	8.25	8.26	8.26
	Middle	0	8.27	8.28	8.27	8.30
		1	8.25	8.27	8.25	8.28
		14	8.28	8.31	8.25	8.29
		15	8.29	8.25	8.28	8.30
	High	0	8.26	8.27	8.26	8.24
		1	8.26	8.27	8.30	8.25
		14	8.26	8.27	8.27	8.26
		15	8.30	8.25	8.29	8.28
DSS_1C_15M + LTE_1C_5M	Low	0	7.86	7.93	7.89	7.92
		1	7.88	7.93	7.93	7.92
		14	7.86	7.94	7.92	7.92
		15	7.90	7.93	7.93	7.91
	Middle	0	7.94	7.97	7.98	7.98
		1	7.94	7.95	7.98	7.97
		14	7.93	7.97	7.98	7.94
		15	7.95	7.95	7.98	7.97
	High	0	7.94	7.98	7.97	7.98
		1	7.93	7.98	8.01	7.98
		14	7.93	7.97	7.97	7.97
		15	7.95	7.99	8.00	7.98



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DSS_1C_20M + LTE_2C_15M+15M	Low	0	8.31	8.26	8.31	8.30
		1	8.29	8.28	8.30	8.28
		14	8.25	8.23	8.30	8.28
		15	8.28	8.30	8.30	8.31
	Middle	0	8.31	8.32	8.30	8.27
		1	8.30	8.32	8.29	8.32
		14	8.28	8.33	8.28	8.30
		15	8.31	8.32	8.32	8.31
	High	0	8.27	8.31	8.33	8.30
		1	8.30	8.34	8.27	8.32
		14	8.27	8.31	8.33	8.30
		15	8.30	8.33	8.31	8.32
DSS_1C_15M + NR_1C_5M	Low	0	7.89	7.93	7.80	7.70
		1	7.88	7.94	7.70	7.69
		14	7.87	7.90	7.69	7.68
		15	7.89	7.92	7.69	7.68
	Middle	0	7.91	7.69	7.74	7.72
		1	7.94	7.72	7.73	7.71
		14	7.93	7.71	7.74	7.72
		15	7.92	7.71	7.72	7.71
	High	0	7.92	7.71	7.73	7.72
		1	7.93	7.73	7.77	7.72
		14	7.93	7.71	7.74	7.72
		15	7.92	7.73	7.74	7.74
DSS_1C_20M + NR_2C_15M+15M	Low	0	8.26	7.74	7.76	7.77
		1	8.29	7.75	7.76	7.77
		14	8.27	7.76	7.77	7.76
		15	8.26	7.74	7.76	7.75
	Middle	0	8.27	8.28	7.72	7.71
		1	8.30	8.28	7.72	7.72
		14	8.29	8.31	7.72	7.71
		15	8.30	8.29	7.72	7.73
	High	0	8.28	8.27	7.73	7.73
		1	8.31	8.26	7.73	7.74
		14	8.29	8.30	7.72	7.72
		15	8.28	8.29	7.73	7.73

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DSS_1C_10M + LTE_1C_5M + NR_1C_5M	Low	0	8.28	8.28	7.92	7.94
		1	8.27	8.28	7.92	7.94
		14	8.26	8.29	7.93	7.95
		15	8.31	8.32	7.91	7.94
	Middle	0	8.28	7.98	7.98	7.99
		1	8.26	7.99	7.94	7.99
		14	8.29	7.98	7.95	7.98
		15	8.25	7.97	7.96	7.98
	High	0	8.31	7.99	7.97	8.00
		1	8.32	8.01	7.94	7.98
		14	8.28	8.01	7.98	7.97
		15	8.32	8.02	7.94	7.97
DSS_1C_20M + LTE_1C_15M + NR_1C_15M	Low	0	8.25	7.93	7.95	7.95
		1	8.26	7.94	7.94	7.95
		14	8.25	7.94	7.95	7.96
		15	8.25	7.94	7.95	7.96
	Middle	0	8.29	7.95	8.26	7.95
		1	8.28	7.95	8.28	7.94
		14	8.29	7.95	8.26	7.96
		15	8.26	7.95	8.29	7.94
	High	0	8.24	7.96	7.95	7.95
		1	8.24	7.96	7.96	7.95
		14	8.22	7.96	7.96	7.95
		15	8.29	7.95	7.95	7.96

Table 8-66. Peak To Average Power Ratio Summary Data (AWS_Multi-Carrier)

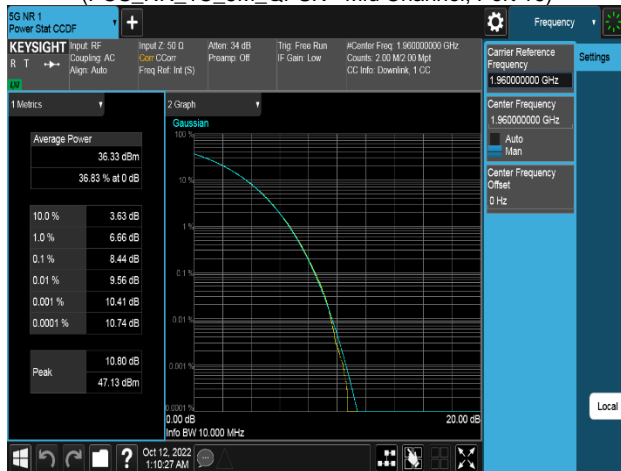
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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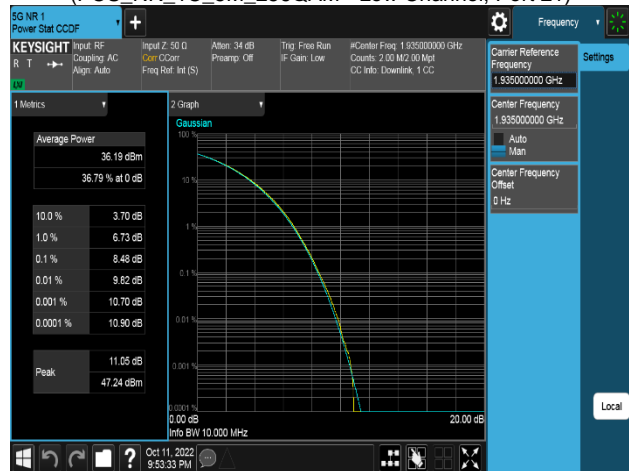
Plot 8-103. Peak To Average Power Ratio Plot (PCS_NR_1C_5M_QPSK - Mid Channel, Port 16)



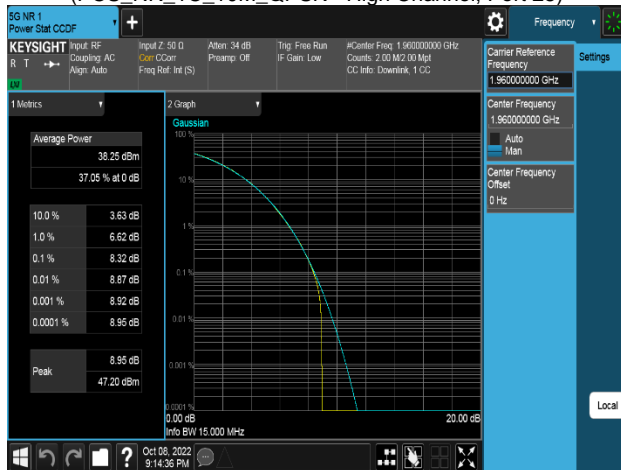
Plot 8-104. Peak To Average Power Ratio Plot (PCS_NR_1C_5M_256QAM - Low Channel, Port 21)



Plot 8-105. Peak To Average Power Ratio Plot (PCS_NR_1C_10M_QPSK - High Channel, Port 25)



Plot 8-106. Peak To Average Power Ratio Plot (PCS_NR_1C_10M_64QAM - Low Channel, Port 19)

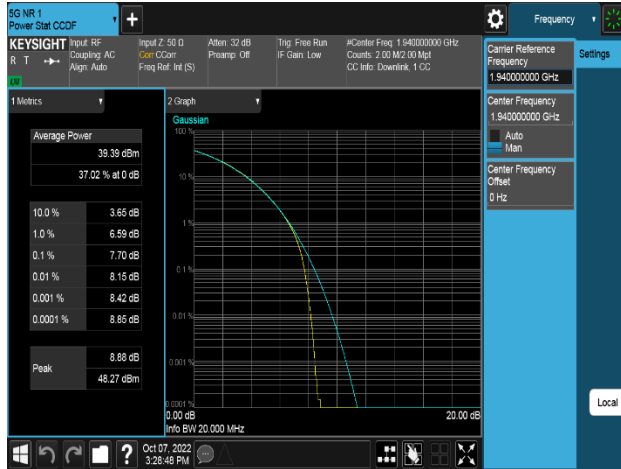


Plot 8-107. Peak To Average Power Ratio Plot (PCS_NR_1C_15M_QPSK - Mid Channel, Port 18)



Plot 8-108. Peak To Average Power Ratio Plot (PCS_NR_1C_15M_16QAM - High Channel, Port 31)

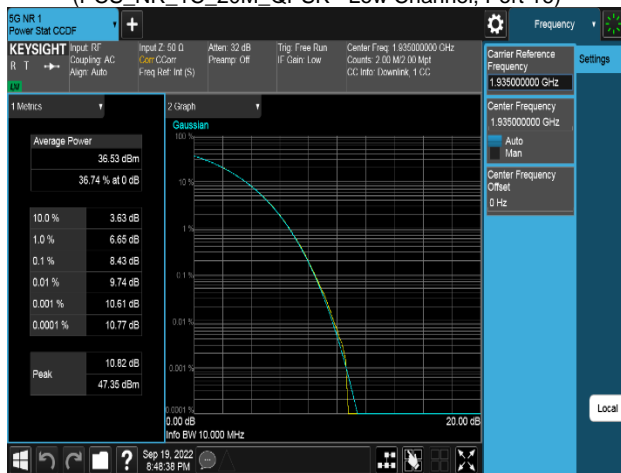
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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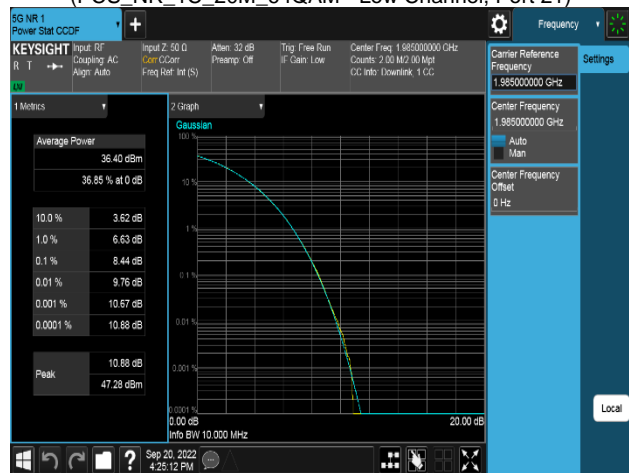
Plot 8-109. Peak To Average Power Ratio Plot (PCS_NR_1C_20M_QPSK - Low Channel, Port 16)



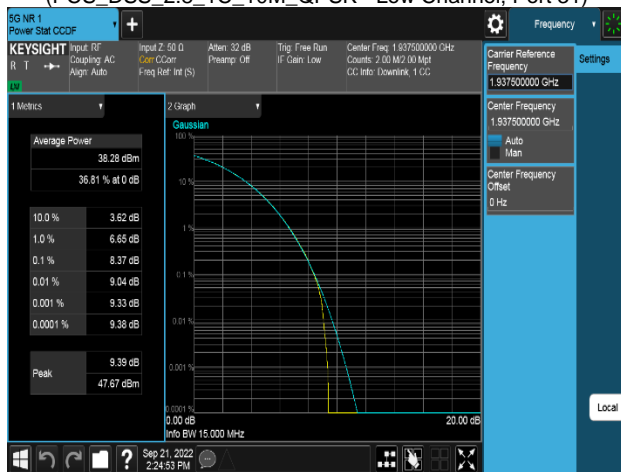
Plot 8-110. Peak To Average Power Ratio Plot (PCS_NR_1C_20M_64QAM - Low Channel, Port 21)



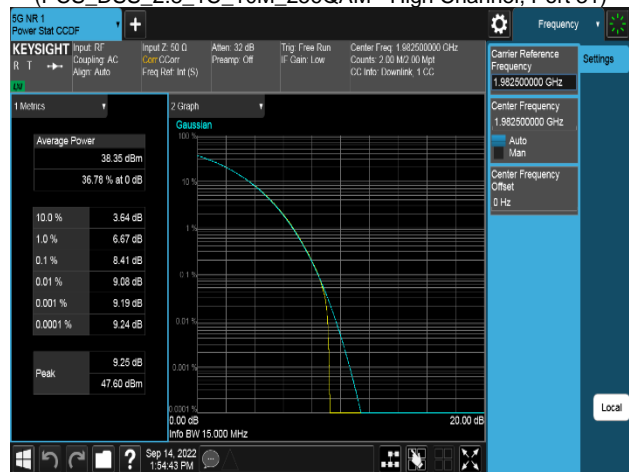
Plot 8-111. Peak To Average Power Ratio Plot (PCS_DSS_2:8_1C_10M_QPSK - Low Channel, Port 31)



Plot 8-112. Peak To Average Power Ratio Plot (PCS_DSS_2:8_1C_10M_256QAM - High Channel, Port 31)

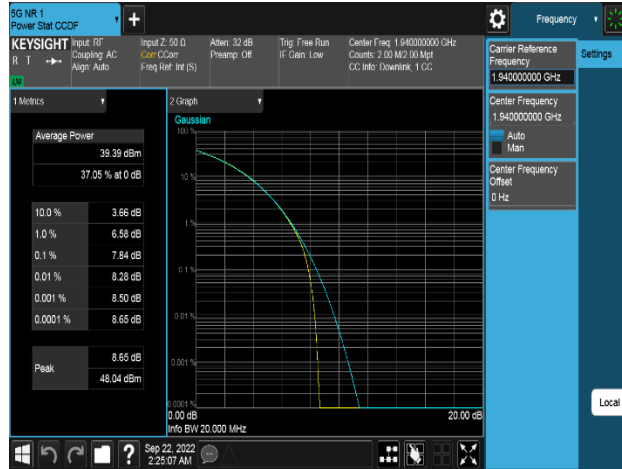


Plot 8-113. Peak To Average Power Ratio Plot (PCS_DSS_9:1_1C_15M_QPSK - Low Channel, Port 16)



Plot 8-114. Peak To Average Power Ratio Plot (PCS_DSS_5:5_1C_15M_64QAM - High Channel, Port 22)

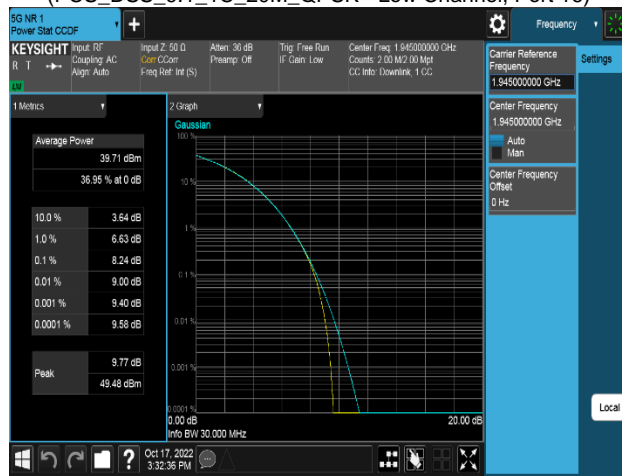
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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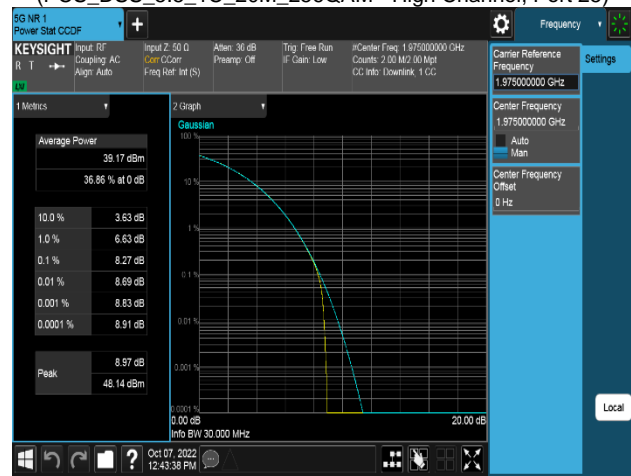
Plot 8-115. Peak To Average Power Ratio Plot (PCS_DSS 9:1_1C_20M_QPSK - Low Channel, Port 16)



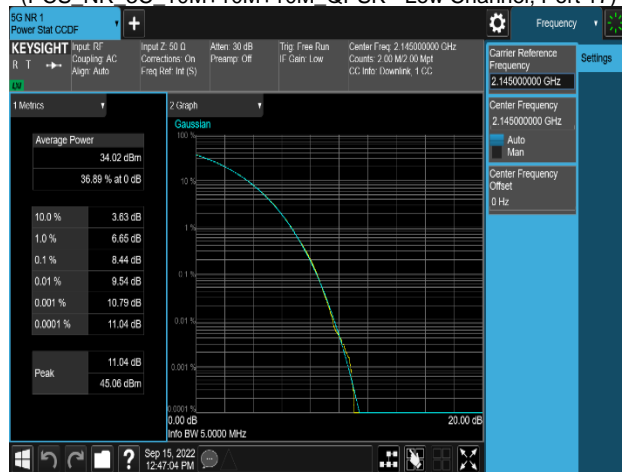
Plot 8-116. Peak To Average Power Ratio Plot (PCS_DSS 5:5_1C_20M_256QAM - High Channel, Port 25)



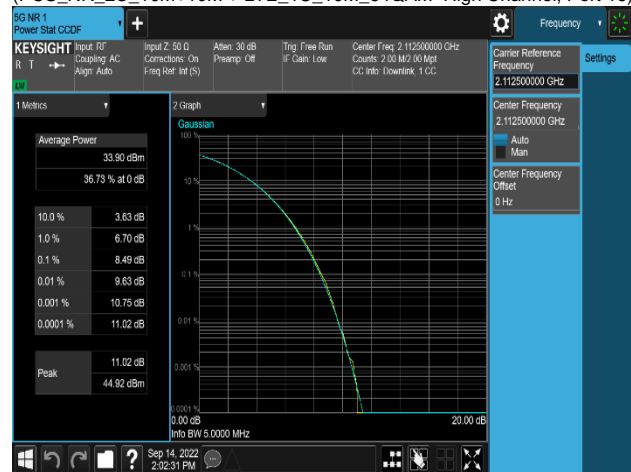
Plot 8-117. Peak To Average Power Ratio Plot (PCS_NR 3C_10M+10M+10M_QPSK - Low Channel, Port 17)



Plot 8-118. Peak To Average Power Ratio Plot (PCS_NR 2C_10M+10M+LTE_1C_10M_64QAM-High Channel, Port 16)



Plot 8-119. Peak To Average Power Ratio Plot (AWS_NR 1C_5M_QPSK - Mid Channel, Port 0)

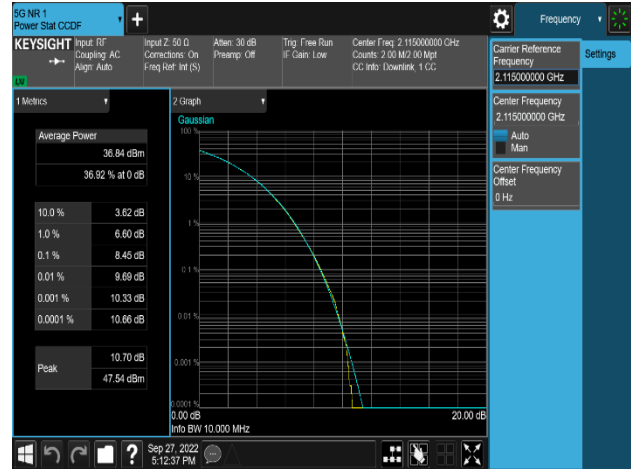


Plot 8-120. Peak To Average Power Ratio Plot (AWS_NR 1C_5M_256QAM - Low Channel, Port 1)

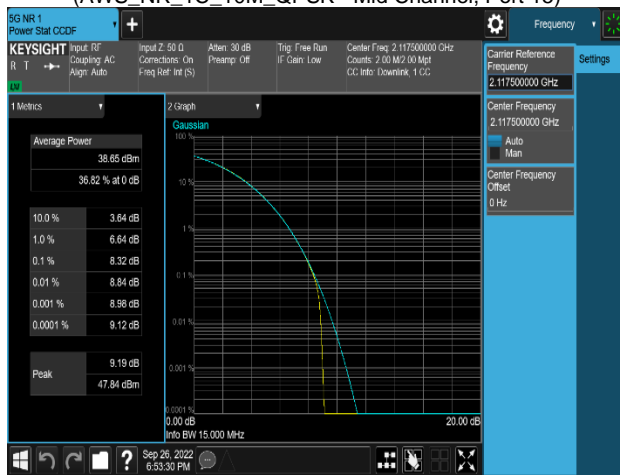
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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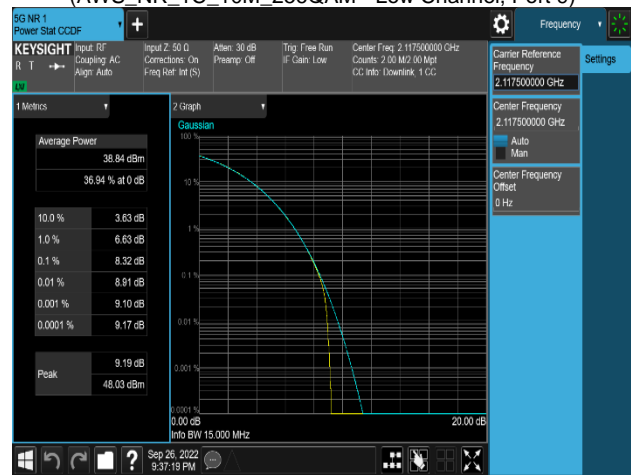
Plot 8-121. Peak To Average Power Ratio Plot (AWS_NR_1C_10M_QPSK - Mid Channel, Port 15)



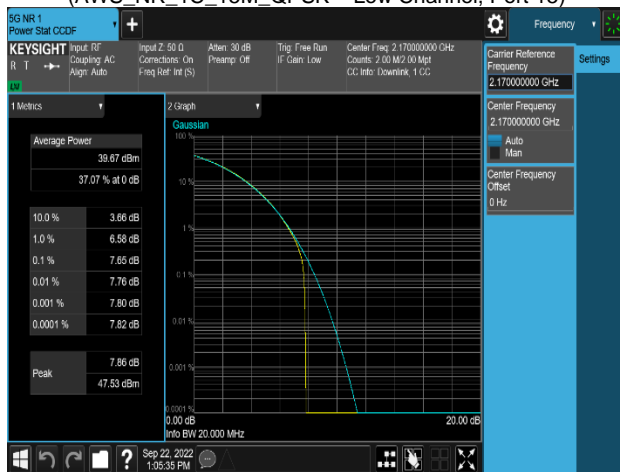
Plot 8-122. Peak To Average Power Ratio Plot (AWS_NR_1C_10M_256QAM - Low Channel, Port 9)



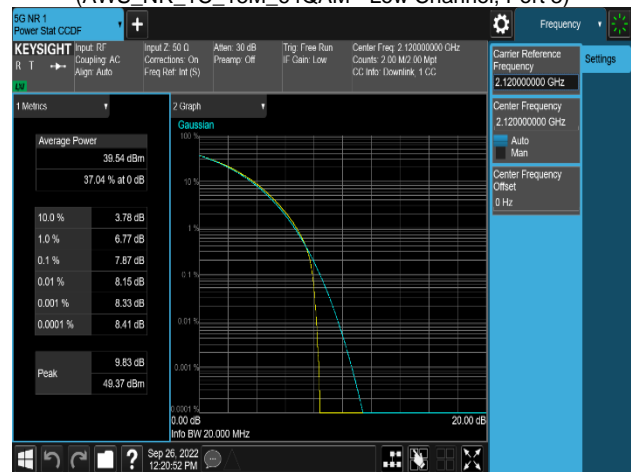
Plot 8-123. Peak To Average Power Ratio Plot (AWS_NR_1C_15M_QPSK - Low Channel, Port 15)



Plot 8-124. Peak To Average Power Ratio Plot (AWS_NR_1C_15M_64QAM - Low Channel, Port 3)



Plot 8-125. Peak To Average Power Ratio Plot (AWS_NR_1C_20M_QPSK - High Channel, Port 13)



Plot 8-126. Peak To Average Power Ratio Plot (AWS_NR_1C_20M_256QAM - Low Channel, Port 14)

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Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 168 of 319