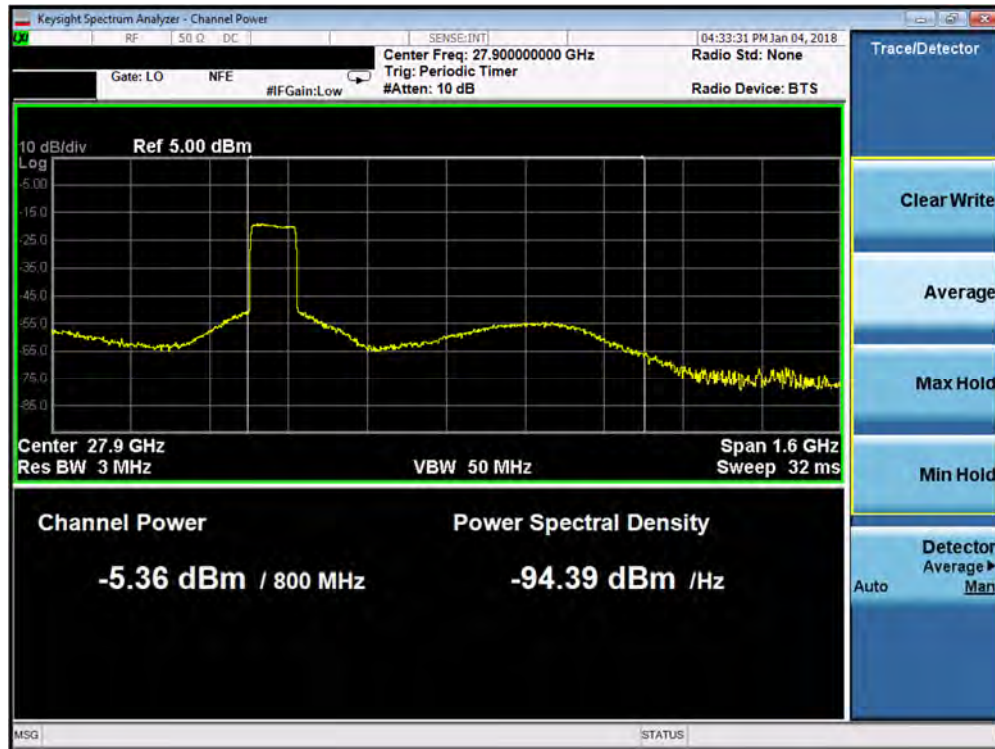


7.4.1 Antenna A Conducted Power

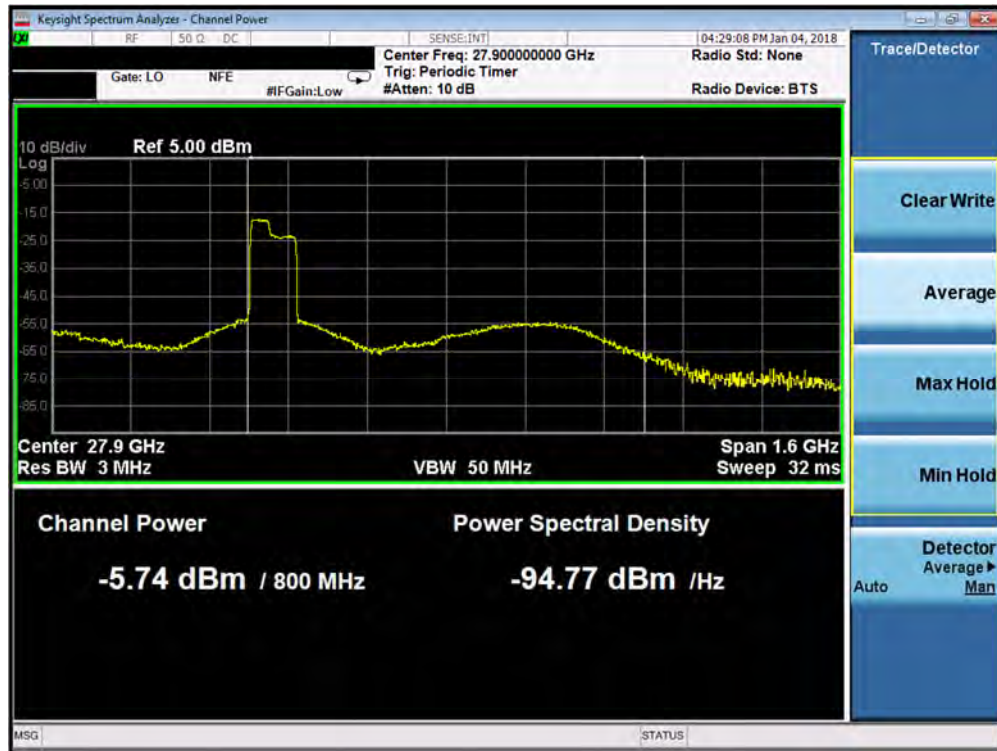
Chan.	Channel Freq [GHz]	CCs active	Modulation	Horn Angle [degrees]	Horn Height [cm]	Turntable Azimuth [degrees]	Analyzer Level [dBm]	AFCL [dB/m]	EUT Antenna Gain [dBi]	Average e.i.r.p. [dBm]	Conducted Average Power [dBm]
Low	27.9	0	QPSK	135.0	153	347	-5.36	52.80	28.15	53.25	25.10
Low	27.9	0	16QAM	135.0	153	347	-5.74	52.80	28.15	52.87	24.72
Low	27.9	0	64QAM	135.0	153	347	-5.78	52.80	28.15	52.83	24.68
Mid	27.925	4	QPSK	135.0	153	347	-4.49	52.80	28.15	54.12	25.97
Mid	27.925	4	16QAM	135.0	153	347	-4.62	52.80	28.15	53.99	25.84
Mid	27.925	4	64QAM	135.0	153	347	-5.09	52.80	28.15	53.52	25.37
High	27.95	7	QPSK	135.0	153	347	-4.69	52.80	28.15	53.92	25.77
High	27.95	7	16QAM	135.0	153	347	-4.90	52.80	28.15	53.71	25.56
High	27.95	7	64QAM	135.0	153	347	-4.79	52.80	28.15	53.82	25.67
Low	27.9	0-7	QPSK	135.0	153	347	-3.91	52.80	28.15	54.70	26.55
Low	27.9	0-7	16QAM	135.0	153	347	-3.97	52.80	28.15	54.64	26.49
Low	27.9	0-7	64QAM	135.0	153	347	-3.96	52.80	28.15	54.65	26.50
Mid	27.925	0-7	QPSK	135.0	153	347	-4.13	52.80	28.15	54.48	26.33
Mid	27.925	0-7	16QAM	135.0	153	347	-4.24	52.80	28.15	54.37	26.22
Mid	27.925	0-7	64QAM	135.0	153	347	-4.17	52.80	28.15	54.44	26.29
High	27.95	0-7	QPSK	135.0	153	347	-4.25	52.80	28.15	54.36	26.21
High	27.95	0-7	16QAM	135.0	153	347	-4.30	52.80	28.15	54.31	26.16
High	27.95	0-7	64QAM	135.0	153	347	-4.24	52.80	28.15	54.37	26.22

Table 7-12. Antenna A Conducted Power Summary Data

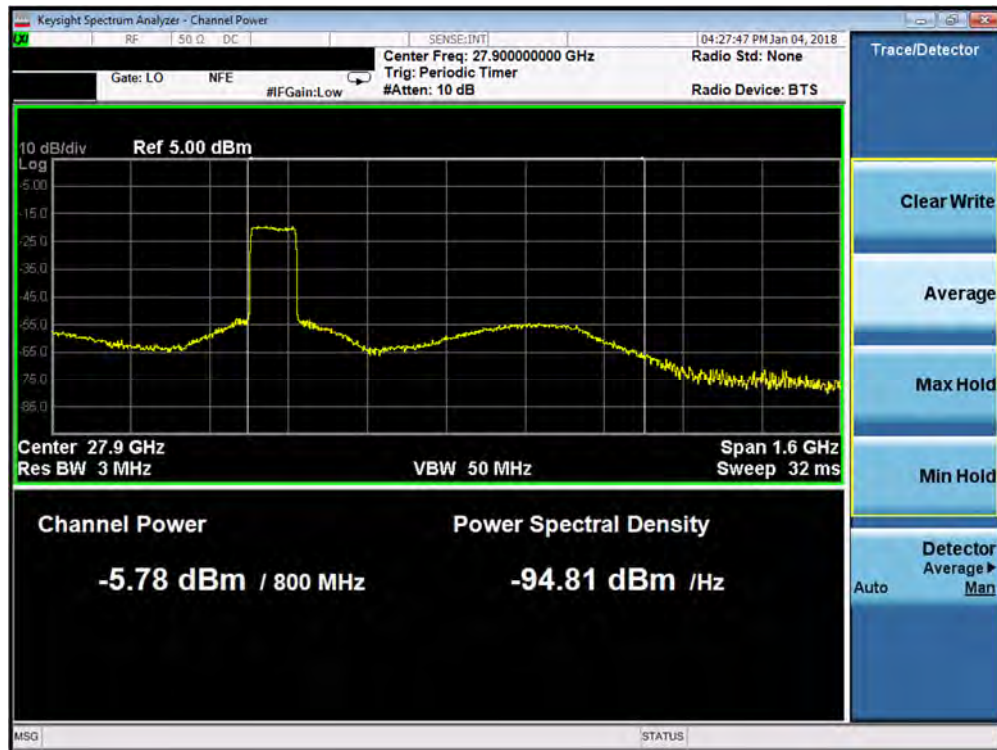


Plot 7-97. Antenna A EIRP Plot (1CC QPSK Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 76 of 222



Plot 7-98. Antenna A EIRP Plot (1CC 16QAM Low Channel)

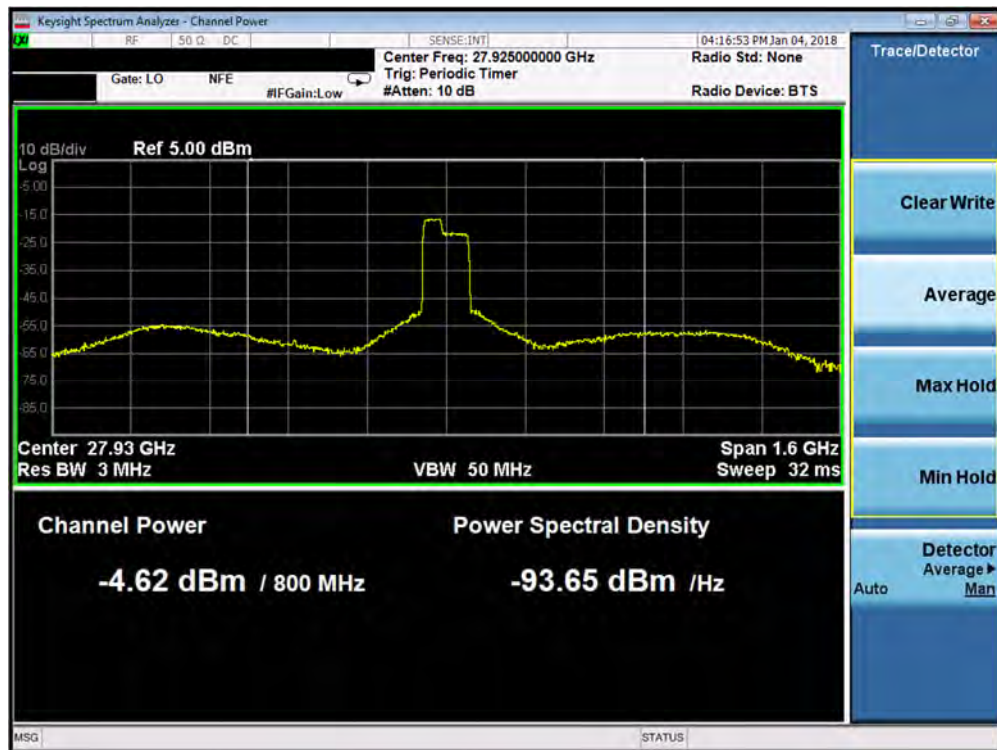


Plot 7-99. Antenna A EIRP Plot (1CC 64QAM Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 77 of 222

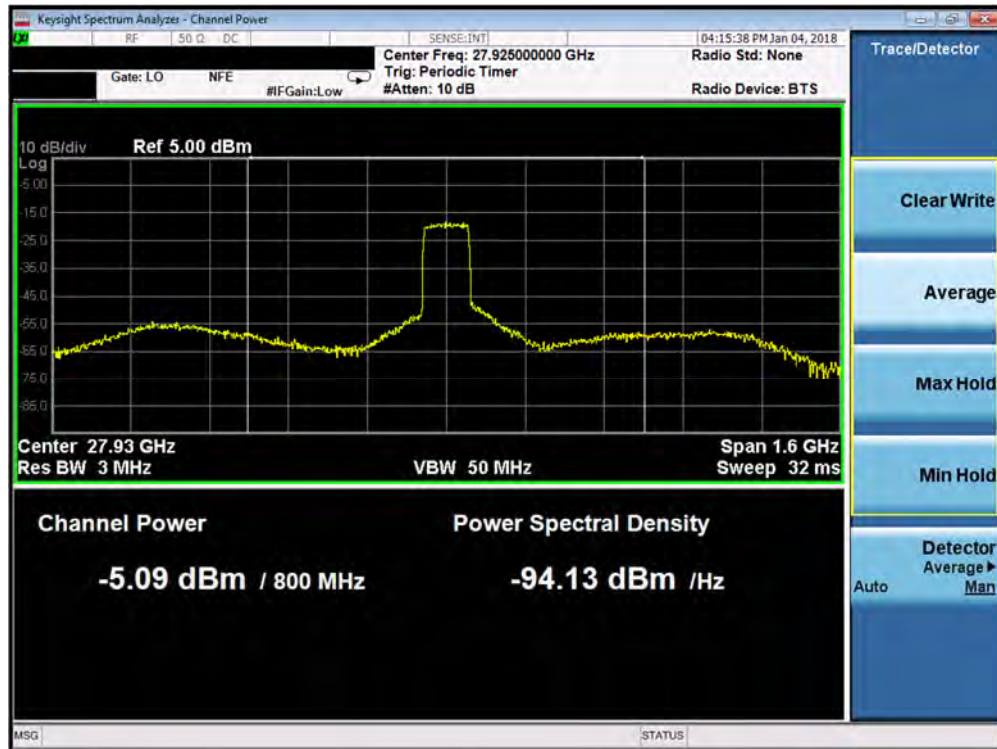


Plot 7-100. Antenna A EIRP Plot (1CC QPSK Mid Channel)

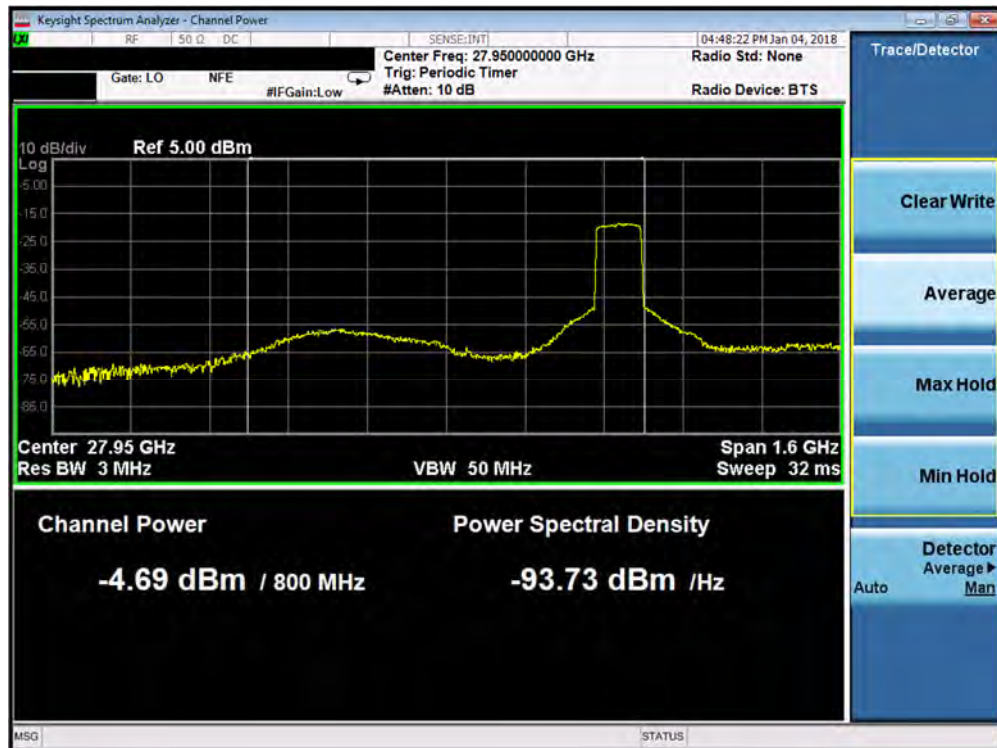


Plot 7-101. Antenna A EIRP Plot (1CC 16QAM Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 78 of 222

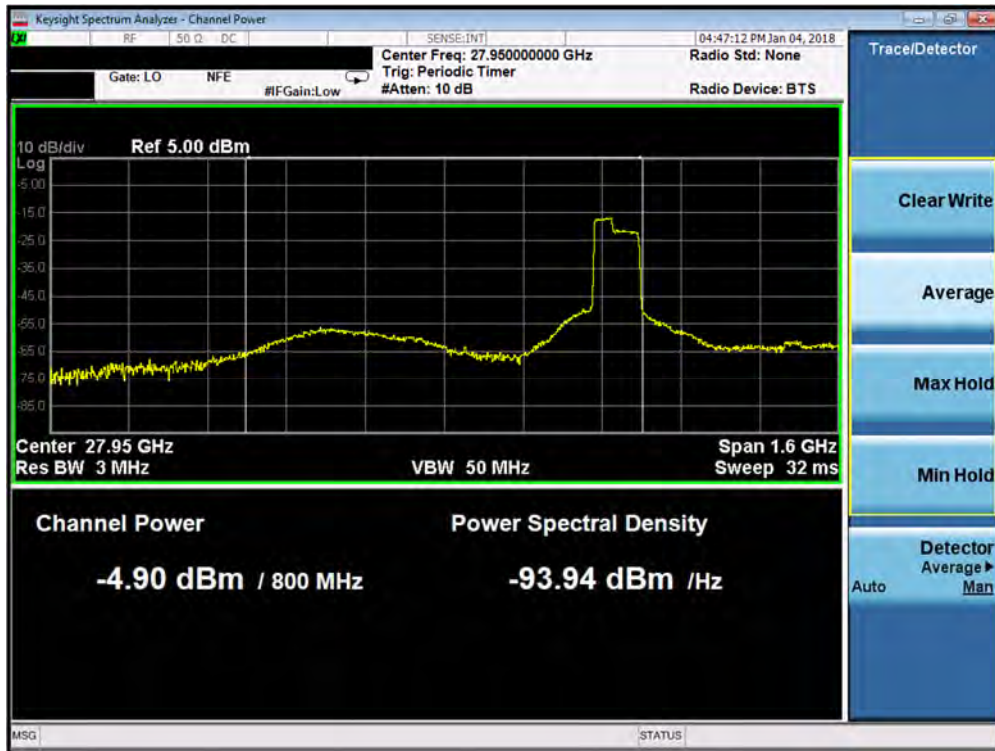


Plot 7-102. Antenna A EIRP Plot (1CC 64QAM Mid Channel)

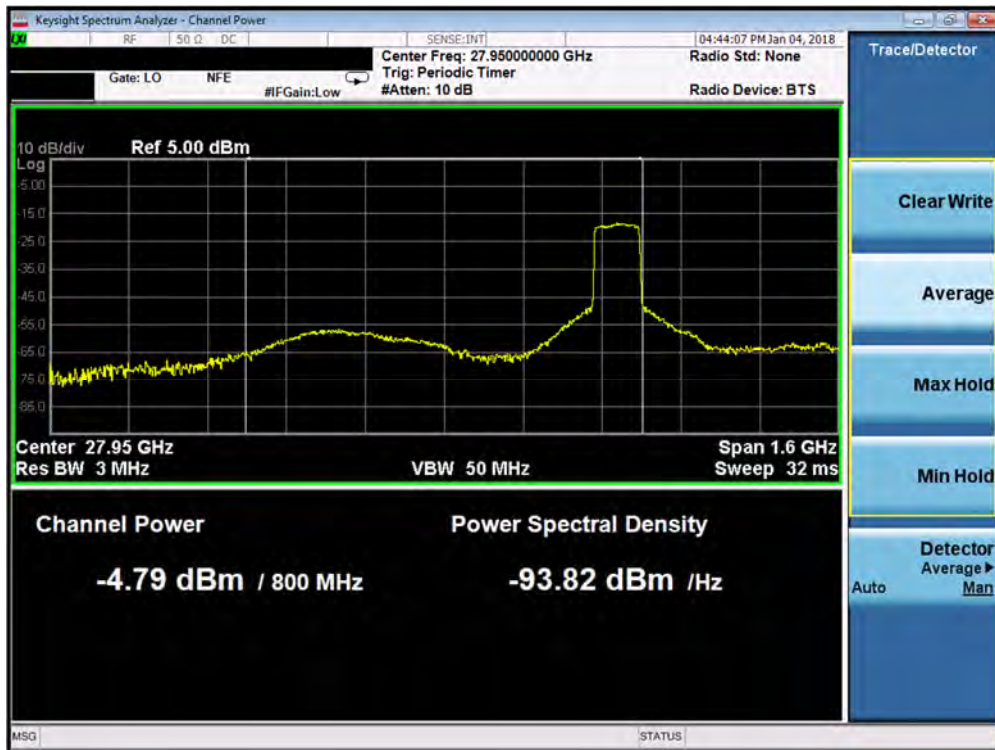


Plot 7-103. Antenna A EIRP Plot (1CC QPSK High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 79 of 222

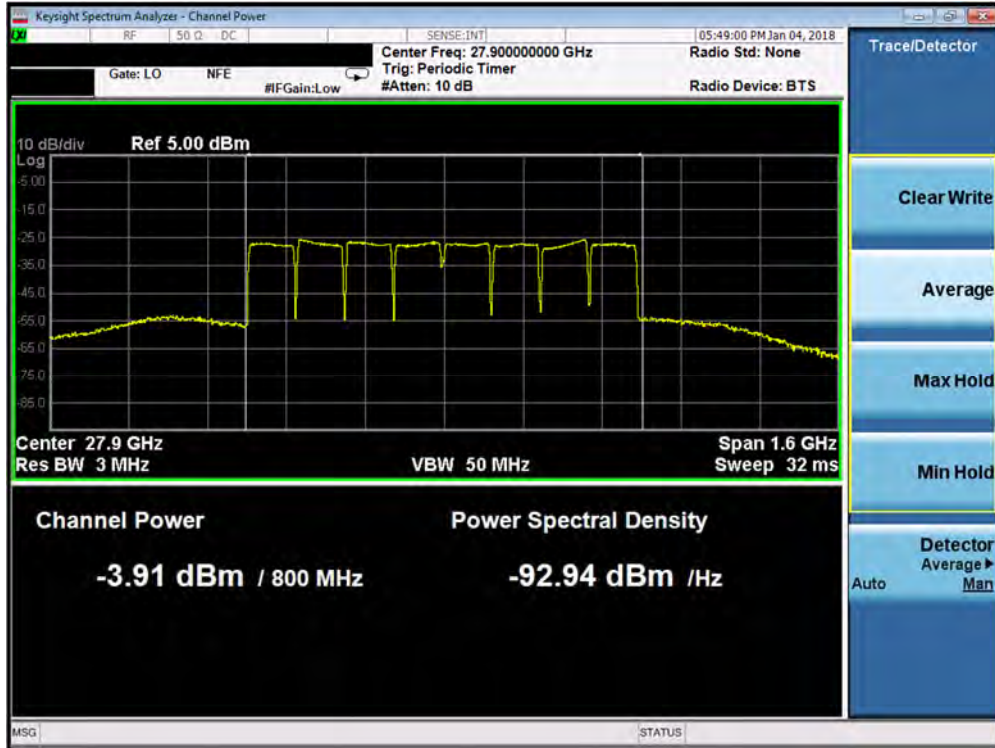


Plot 7-104. Antenna A EIRP Plot (1CC 16QAM High Channel)

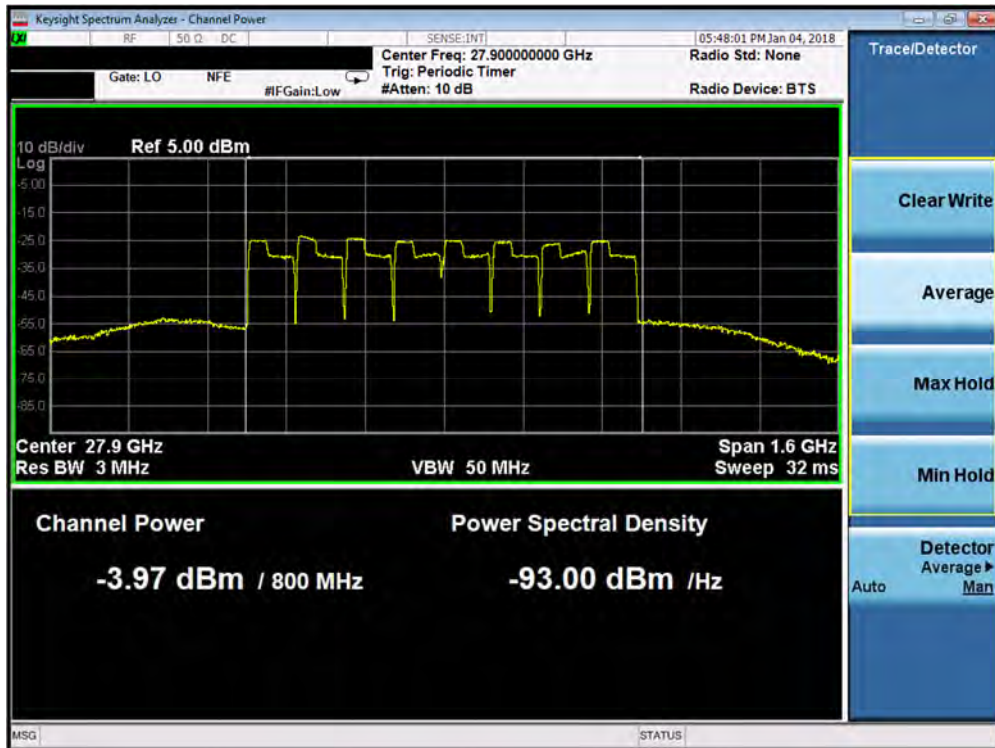


Plot 7-105. Antenna A EIRP Plot (1CC 64QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 80 of 222

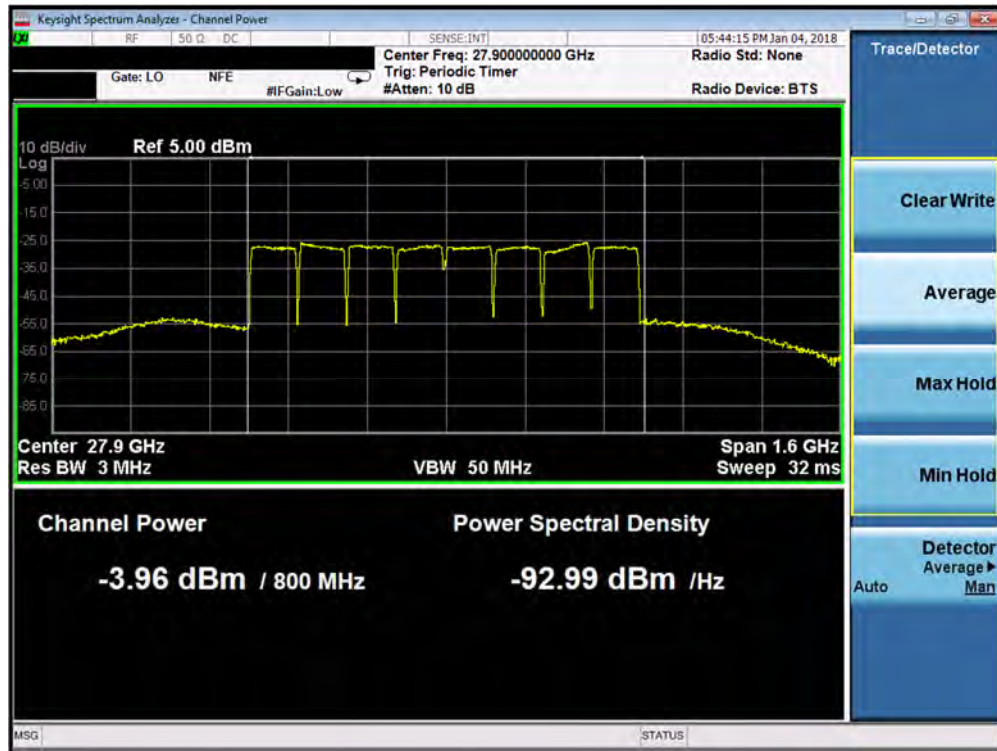


Plot 7-106. Antenna A EIRP Plot (8CC QPSK Low Channel)

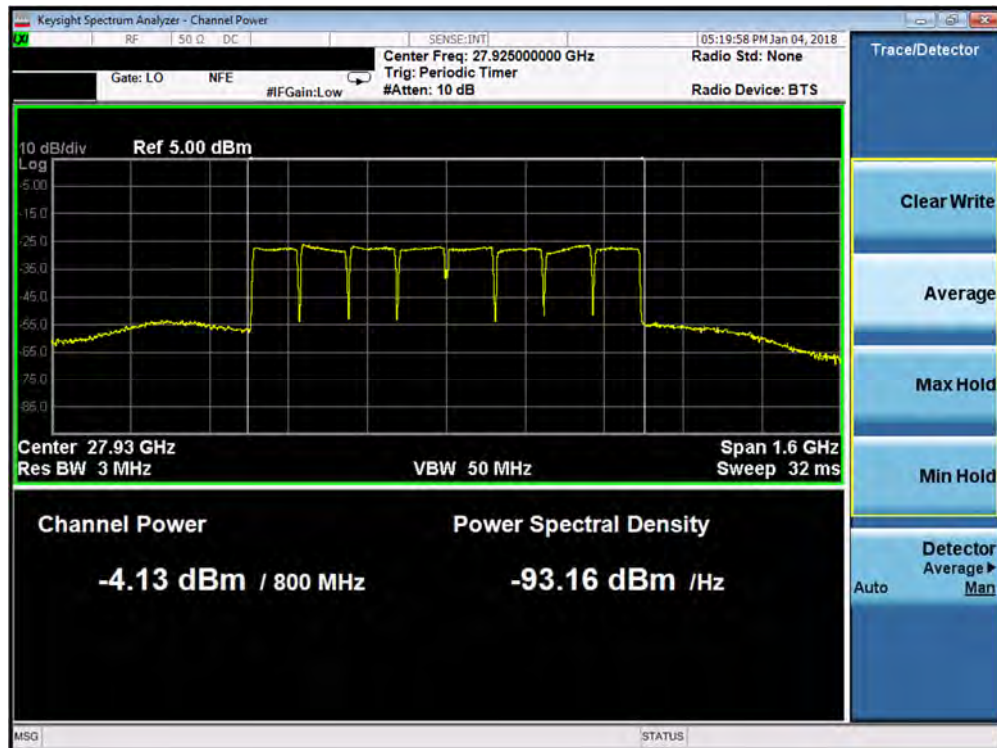


Plot 7-107. Antenna A EIRP Plot (8CC 16QAM Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 81 of 222

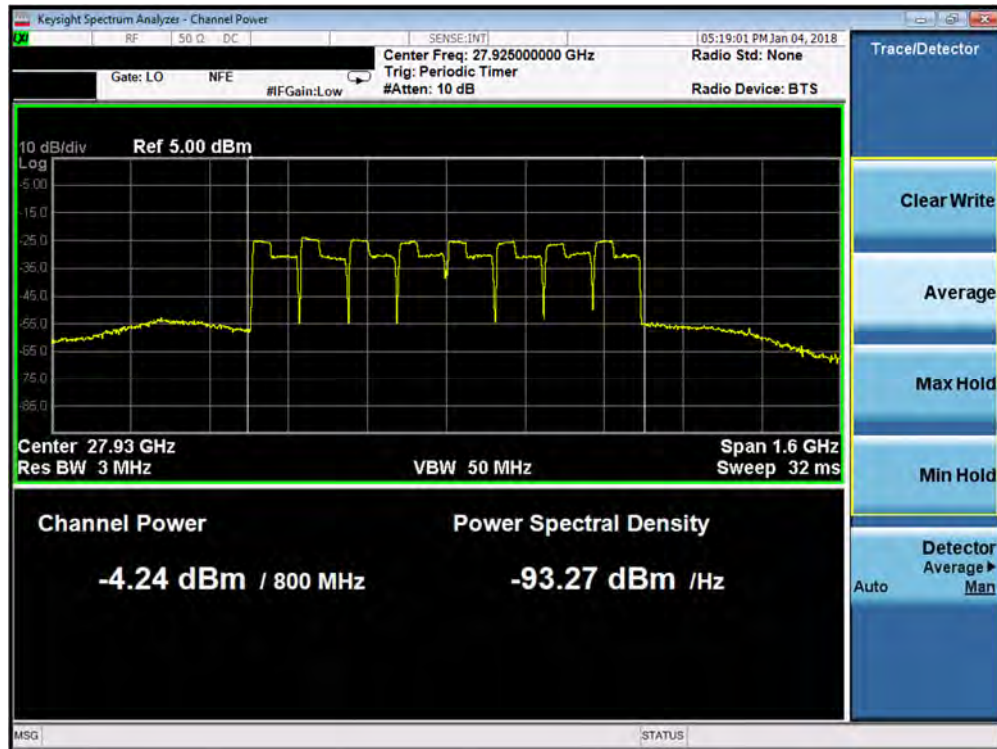


Plot 7-108. Antenna A EIRP Plot (8CC 64QAM Low Channel)

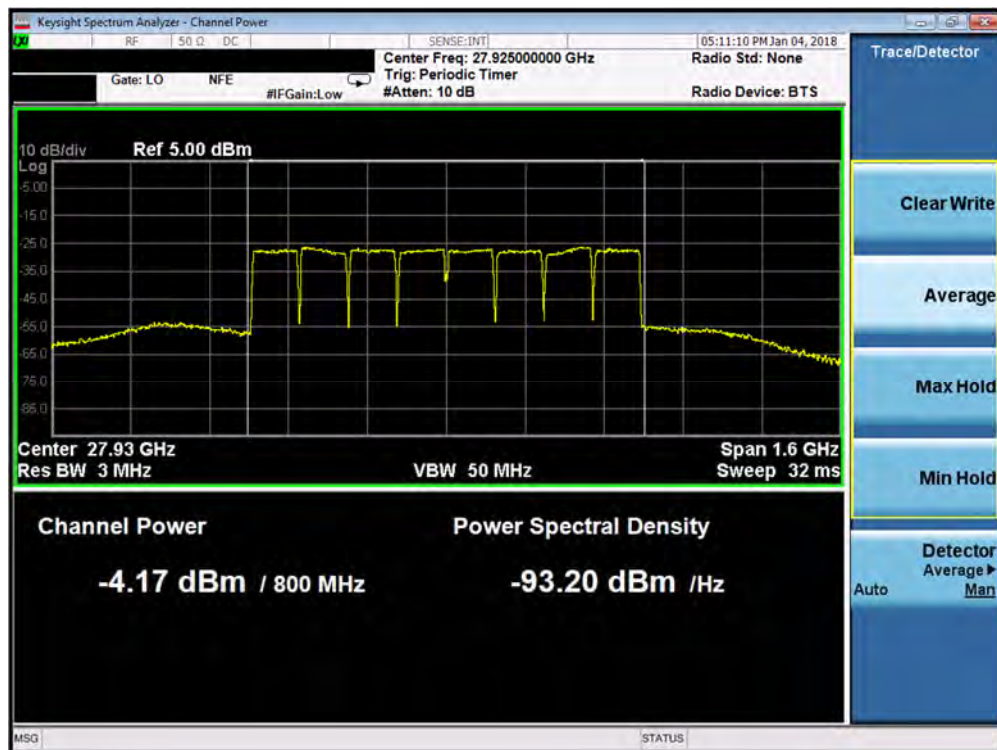


Plot 7-109. Antenna A EIRP Plot (8CC QPSK Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 82 of 222

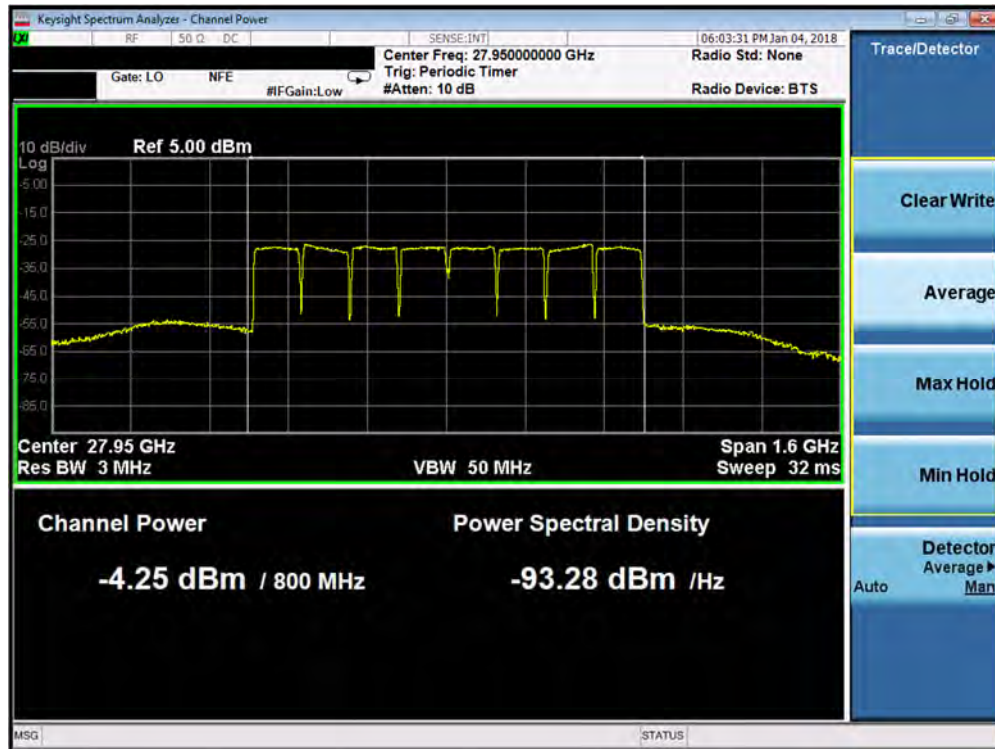


Plot 7-110. Antenna A EIRP Plot (8CC 16QAM Mid Channel)

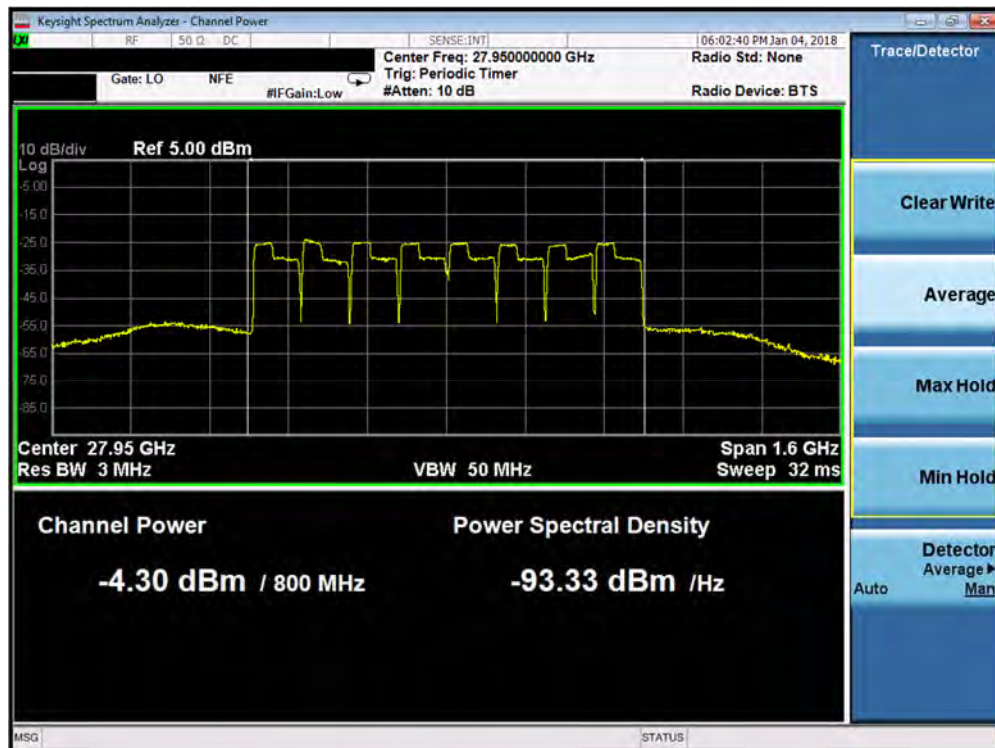


Plot 7-111. Antenna A EIRP Plot (8CC 64QAM Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 83 of 222

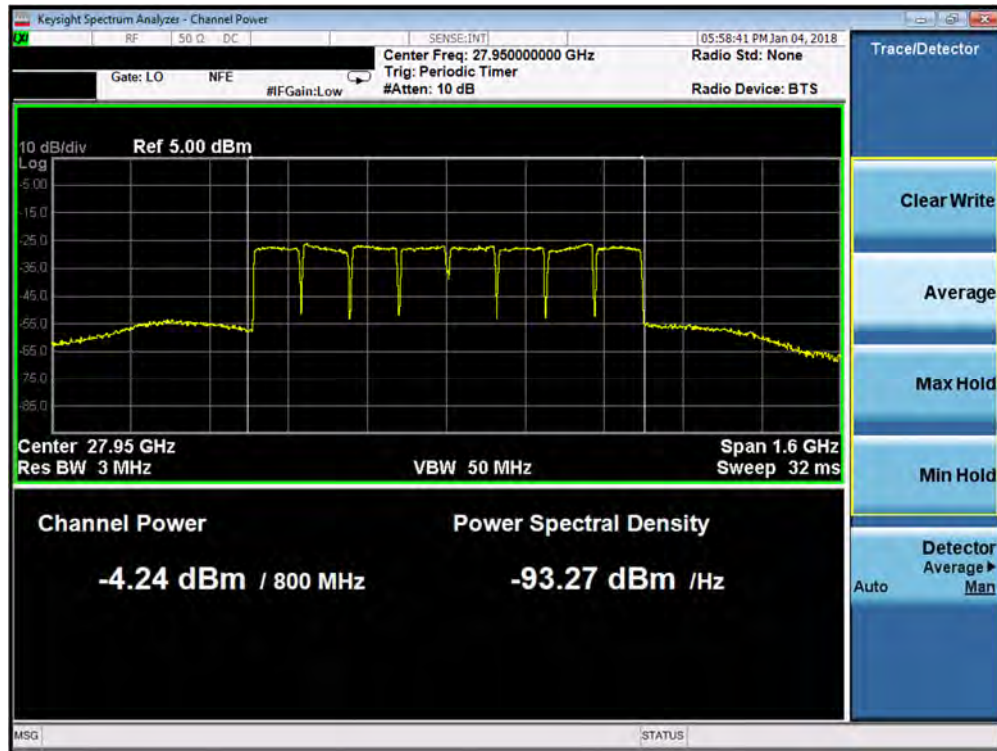


Plot 7-112. Antenna A EIRP Plot (8CC QPSK High Channel)



Plot 7-113. Antenna A EIRP Plot (8CC 16QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 84 of 222



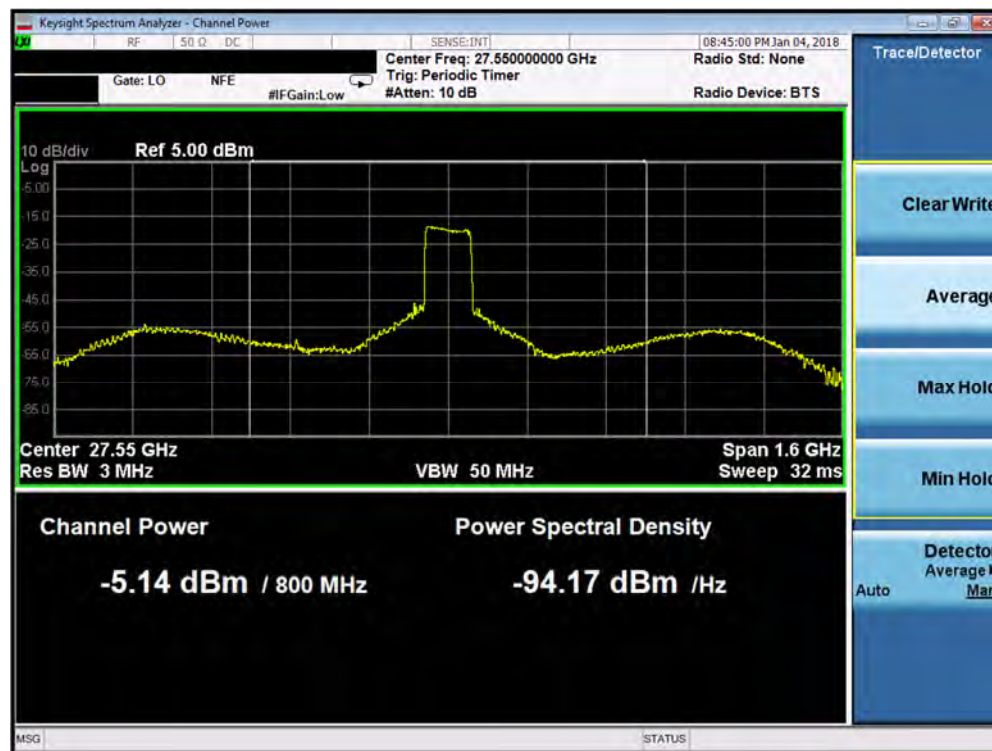
Plot 7-114. Antenna A EIRP Plot (8CC 64QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 85 of 222

7.4.2 Antenna B Conducted Power

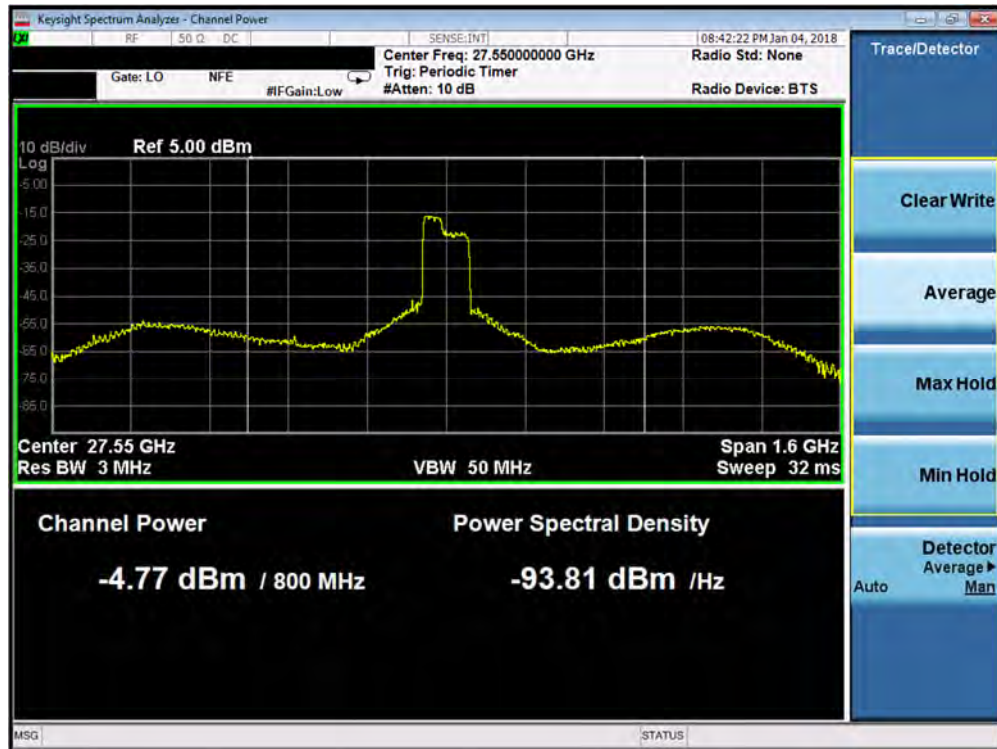
Chan.	Channel Freq [GHz]	CCs active	Modulation	Horn Angle [degrees]	Horn Height [cm]	Turntable Azimuth [degrees]	Analyzer Level [dBm]	AFCL [dB/m]	EUT Antenna Gain [dBi]	Average e.i.r.p. [dBm]	Conducted Average Power [dBm]
Low	27.9	0	QPSK	45.0	146	353	-5.14	52.80	28.15	53.47	25.32
Low	27.9	0	16QAM	45.0	146	353	-4.77	52.80	28.15	53.84	25.69
Low	27.9	0	64QAM	45.0	146	353	-5.05	52.80	28.15	53.56	25.41
Mid	27.925	4	QPSK	45.0	146	353	-3.94	52.80	28.15	54.67	26.52
Mid	27.925	4	16QAM	45.0	146	353	-3.60	52.80	28.15	55.01	26.86
Mid	27.925	4	64QAM	45.0	146	353	-3.56	52.80	28.15	55.05	26.90
High	27.95	7	QPSK	45.0	146	353	-3.80	52.80	28.15	54.81	26.66
High	27.95	7	16QAM	45.0	146	353	-3.87	52.80	28.15	54.74	26.59
High	27.95	7	64QAM	45.0	146	353	-3.98	52.80	28.15	54.63	26.48
Low	27.9	0-7	QPSK	45.0	146	353	-4.85	52.80	28.15	53.76	25.61
Low	27.9	0-7	16QAM	45.0	146	353	-4.94	52.80	28.15	53.67	25.52
Low	27.9	0-7	64QAM	45.0	146	353	-4.88	52.80	28.15	53.73	25.58
Mid	27.925	0-7	QPSK	45.0	146	353	-4.86	52.80	28.15	53.75	25.60
Mid	27.925	0-7	16QAM	45.0	146	353	-4.87	52.80	28.15	53.74	25.59
Mid	27.925	0-7	64QAM	45.0	146	353	-4.90	52.80	28.15	53.71	25.56
High	27.95	0-7	QPSK	45.0	146	353	-4.45	52.80	28.15	54.16	26.01
High	27.95	0-7	16QAM	45.0	146	353	-4.45	52.80	28.15	54.16	26.01
High	27.95	0-7	64QAM	45.0	146	353	-4.61	52.80	28.15	54.00	25.85

Table 7-13. Antenna B Conducted Power Summary Data

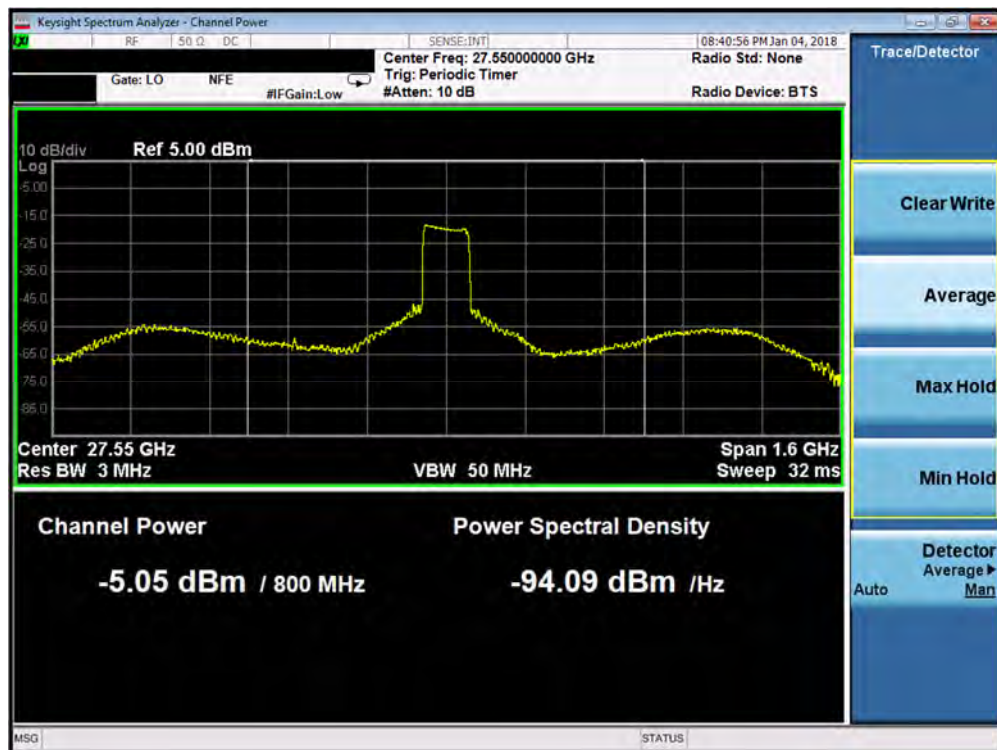


Plot 7-115. Antenna B EIRP Plot (1CC QPSK Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 86 of 222

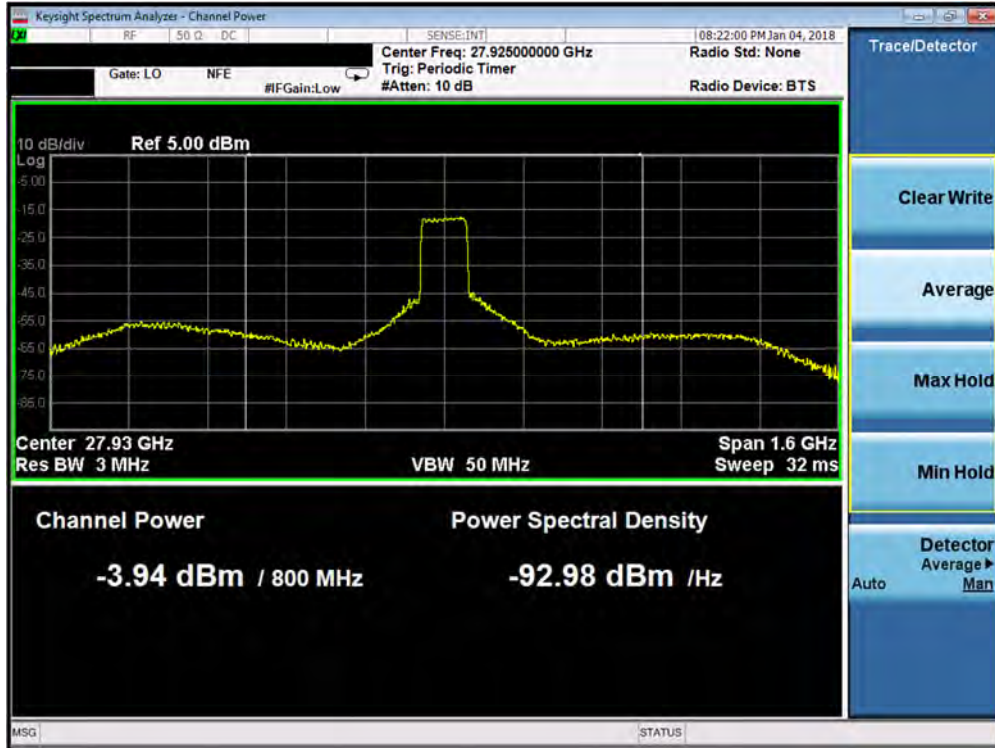


Plot 7-116. Antenna B EIRP Plot (1CC 16QAM Low Channel)

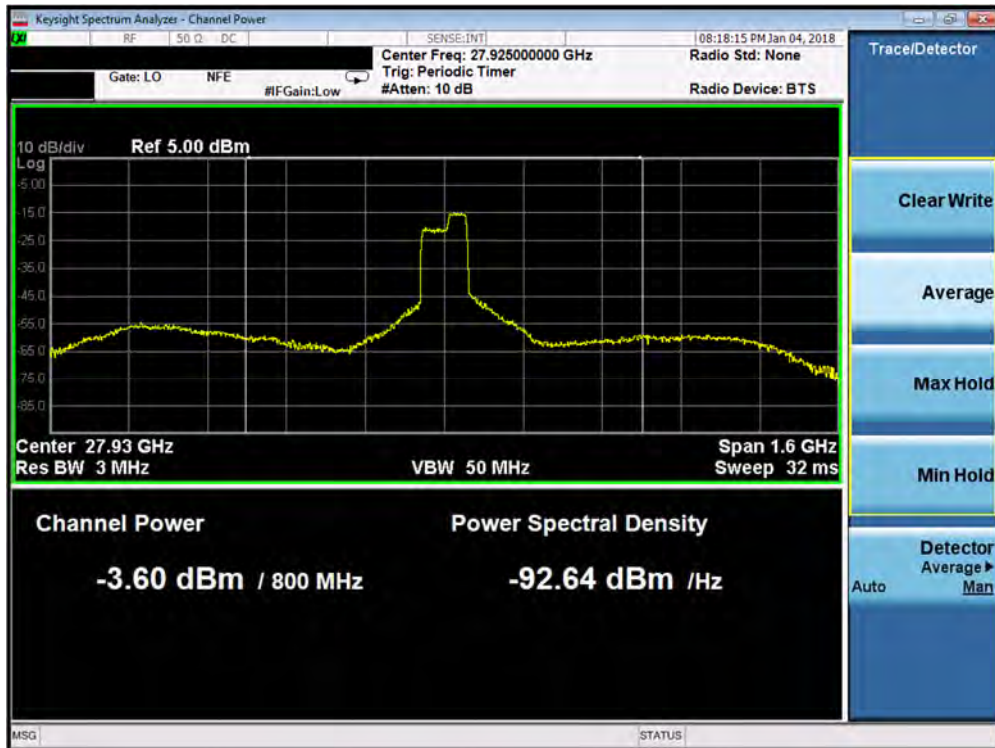


Plot 7-117. Antenna B EIRP Plot (1CC 64QAM Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 87 of 222

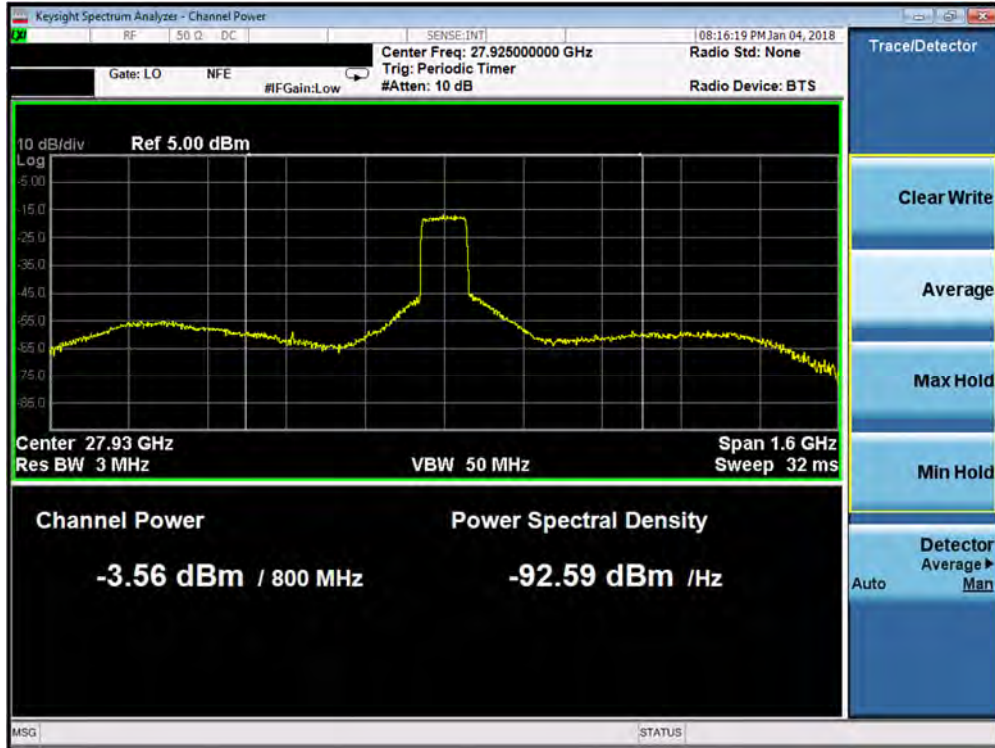


Plot 7-118. Antenna B EIRP Plot (1CC QPSK Mid Channel)

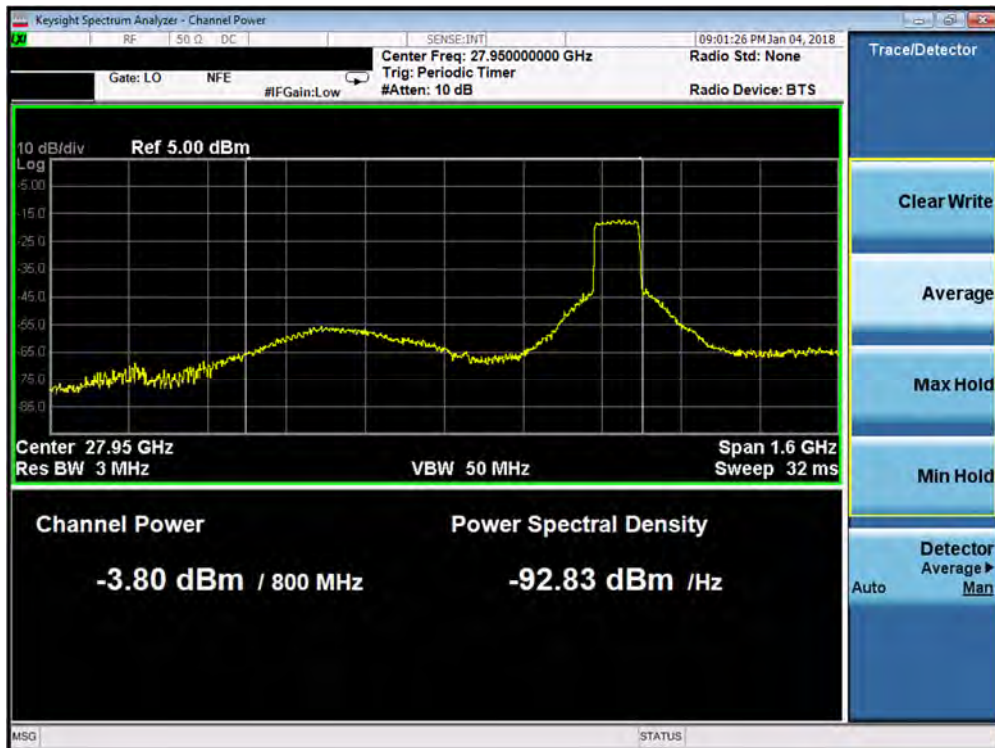


Plot 7-119. Antenna B EIRP Plot (1CC 16QAM Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 88 of 222

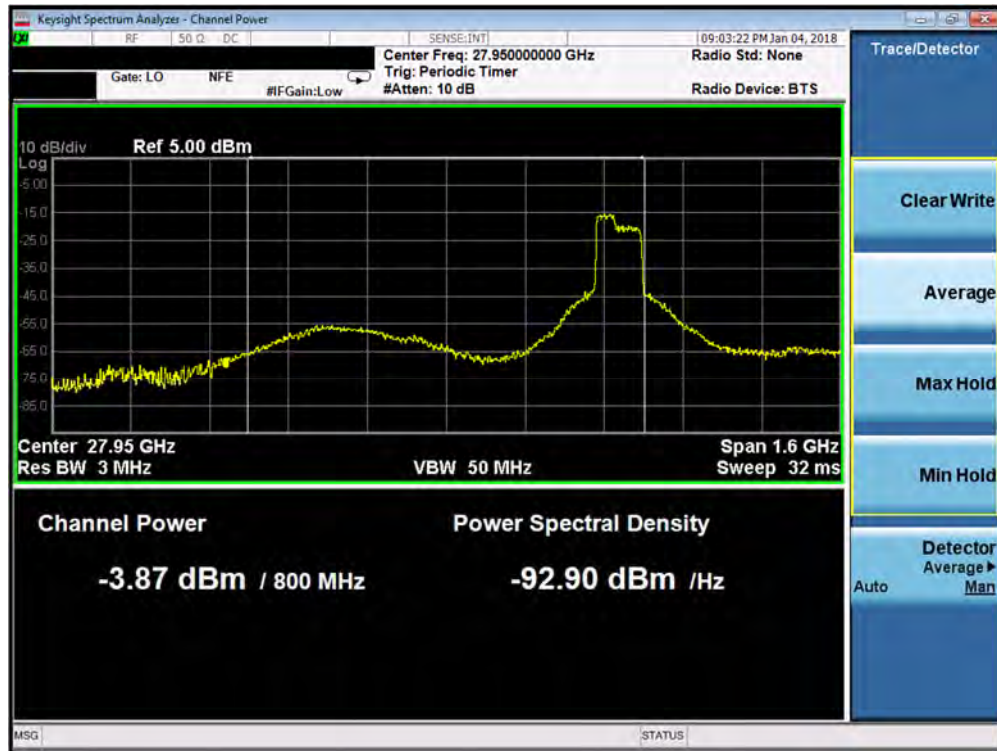


Plot 7-120. Antenna B EIRP Plot (1CC 64QAM Mid Channel)

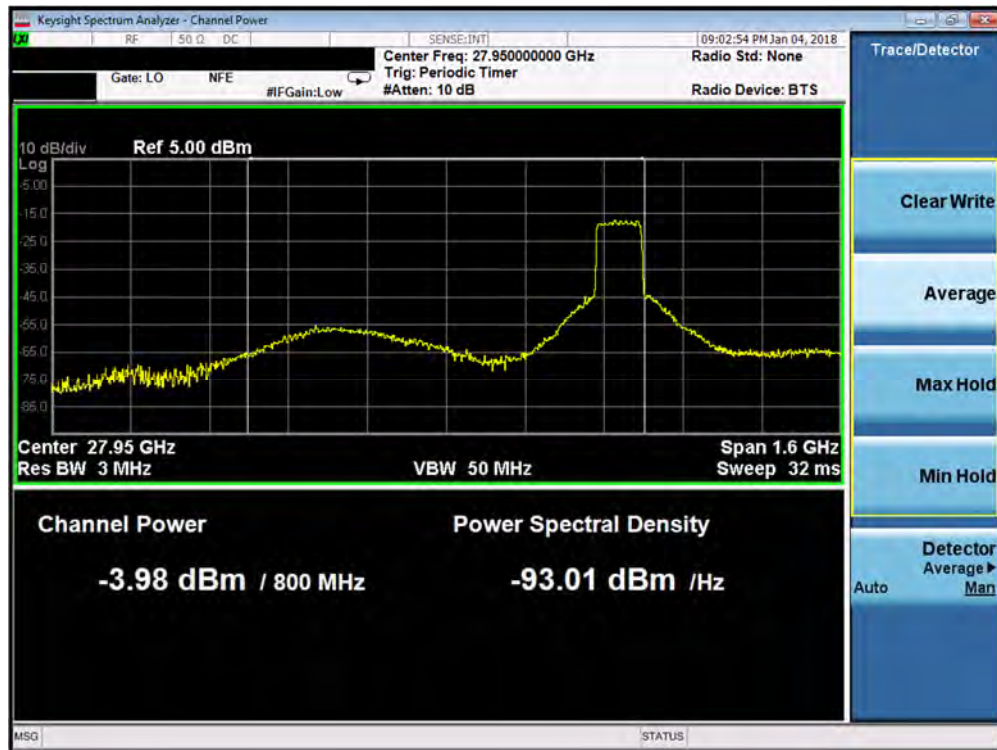


Plot 7-121. Antenna B EIRP Plot (1CC QPSK High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 89 of 222

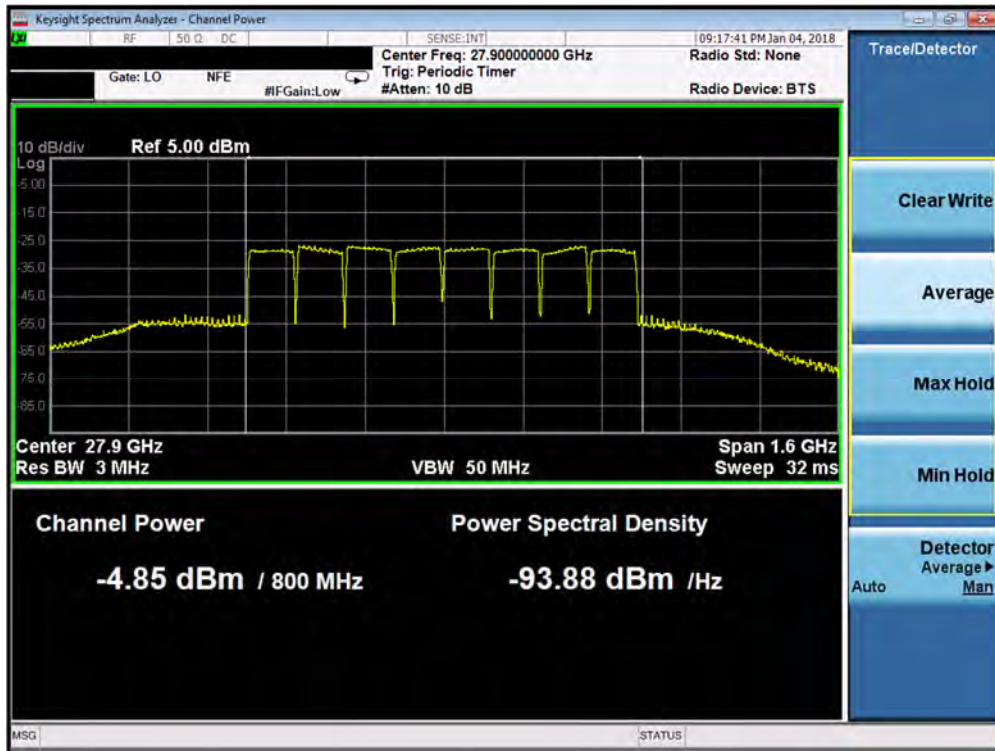


Plot 7-122. Antenna B EIRP Plot (1CC 16QAM High Channel)



Plot 7-123. Antenna B EIRP Plot (1CC 64QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 90 of 222

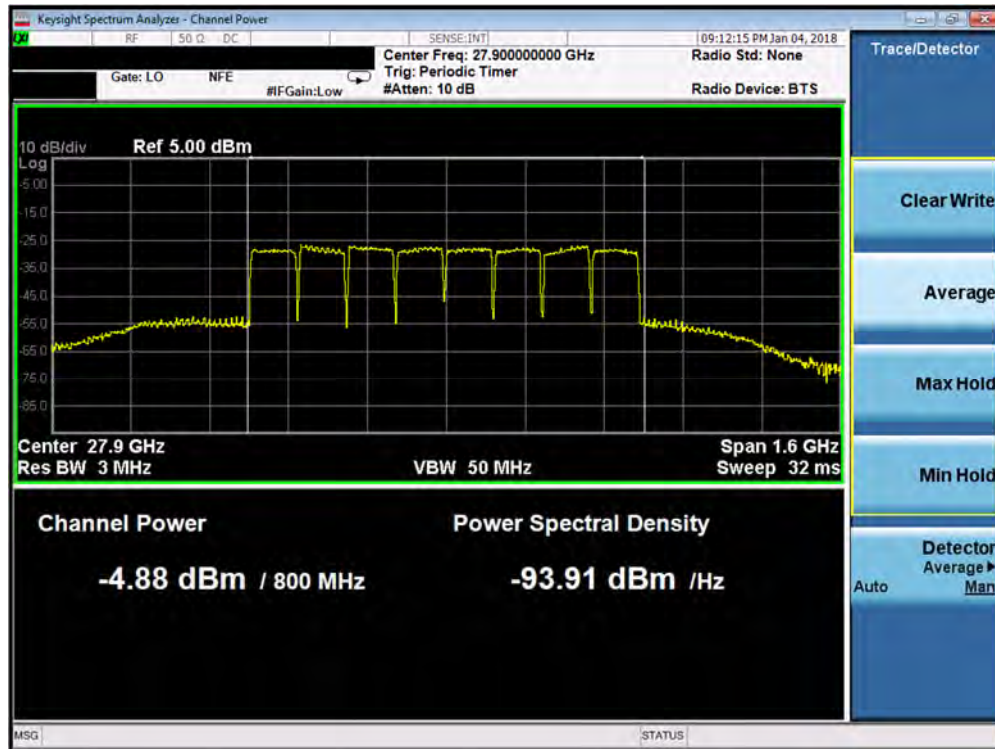


Plot 7-124. Antenna B EIRP Plot (8CC QPSK Low Channel)

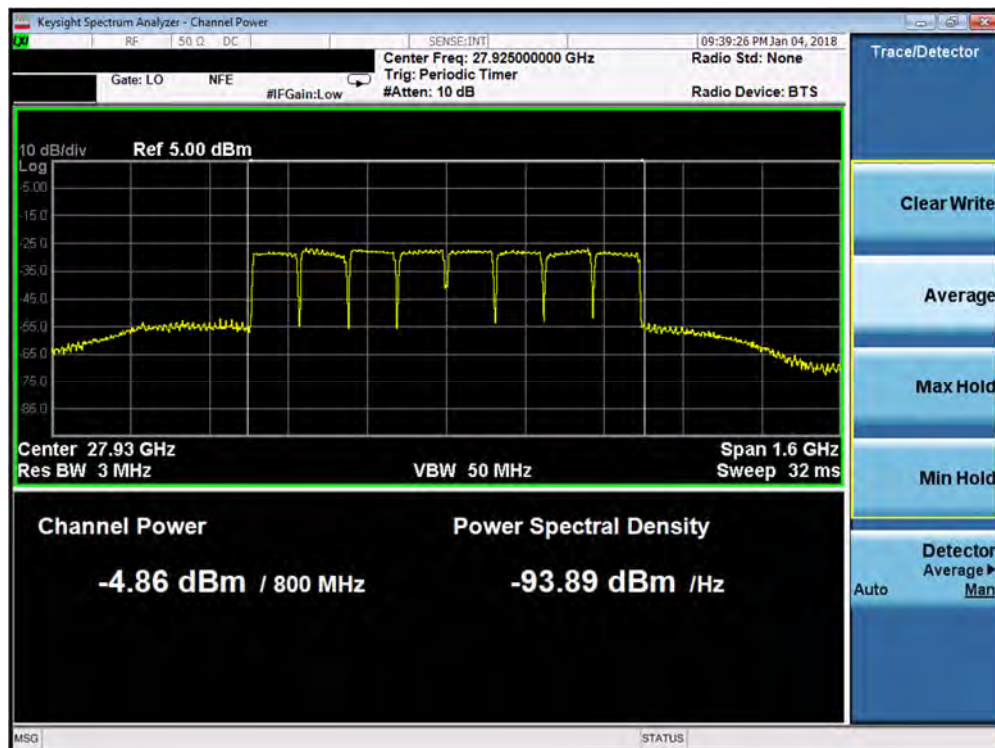


Plot 7-125. Antenna B EIRP Plot (8CC 16QAM Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 91 of 222



Plot 7-126. Antenna B EIRP Plot (8CC 64QAM Low Channel)

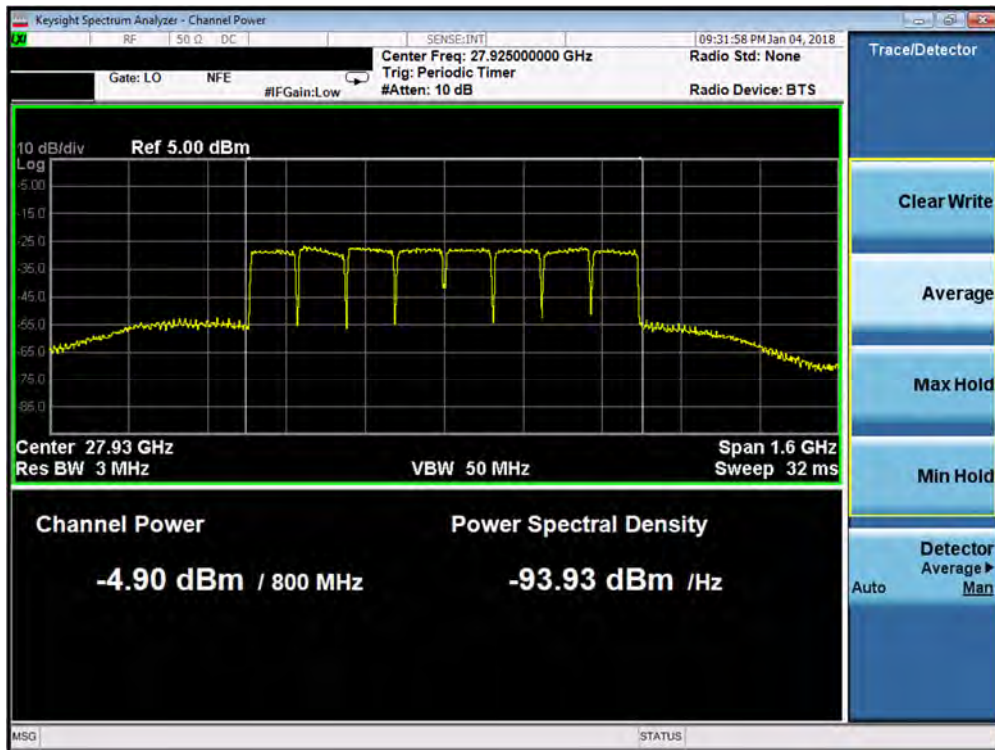


Plot 7-127. Antenna B EIRP Plot (8CC QPSK Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 92 of 222



Plot 7-128. Antenna B EIRP Plot (8CC 16QAM Mid Channel)

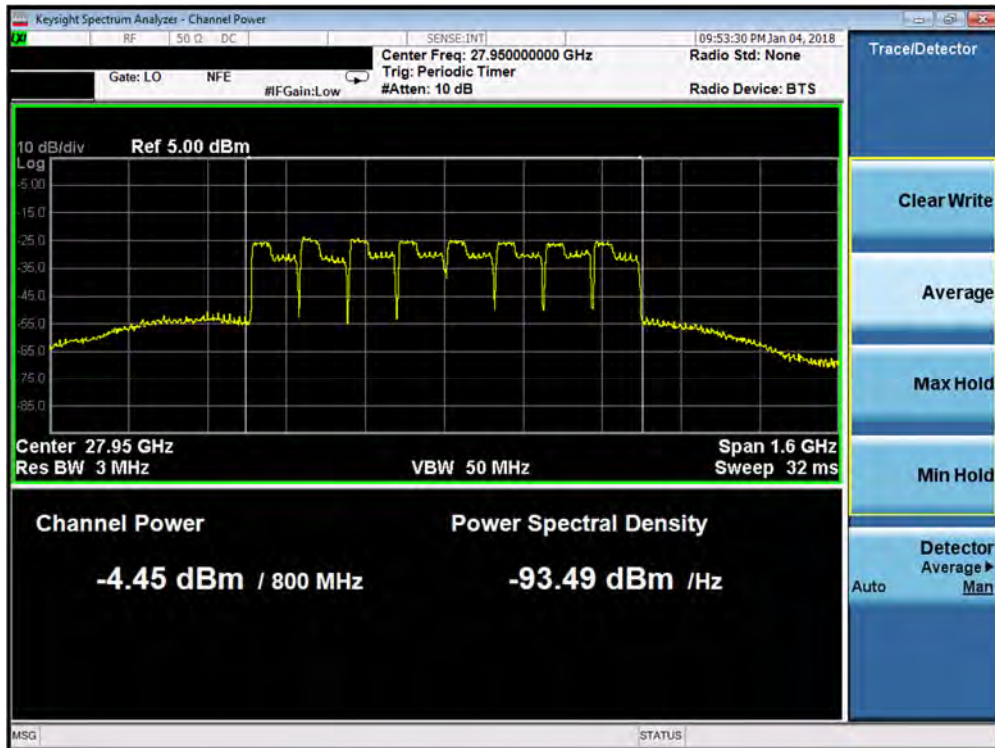


Plot 7-129. Antenna B EIRP Plot (8CC 64QAM Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 93 of 222

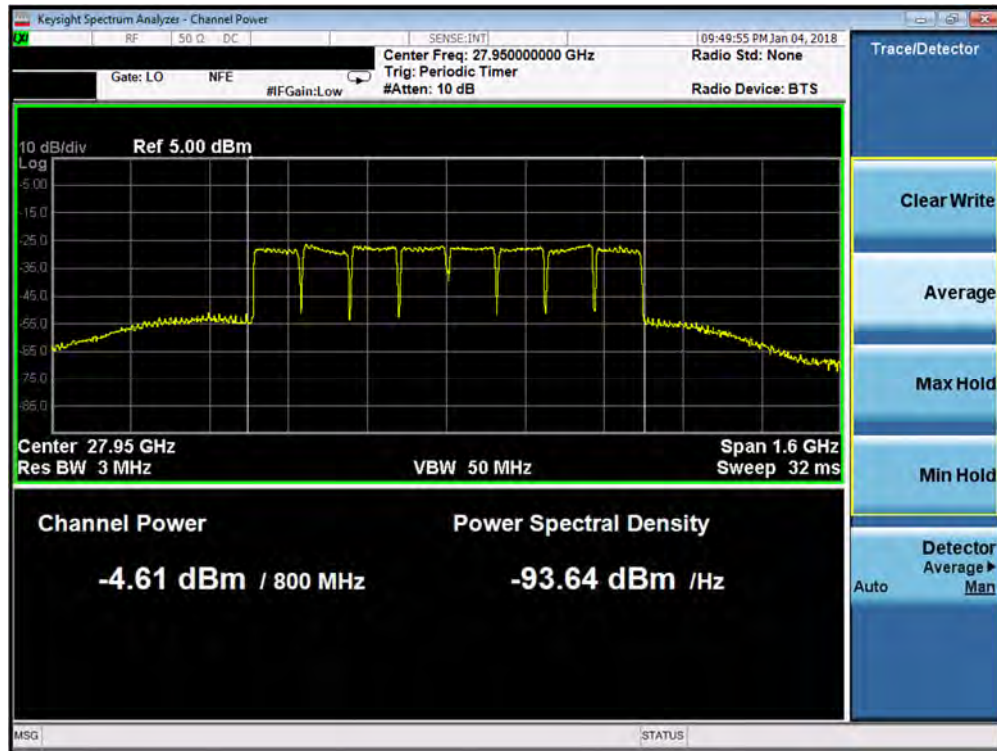


Plot 7-130. Antenna B EIRP Plot (8CC QPSK High Channel)



Plot 7-131. Antenna B EIRP Plot (8CC 16QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 94 of 222



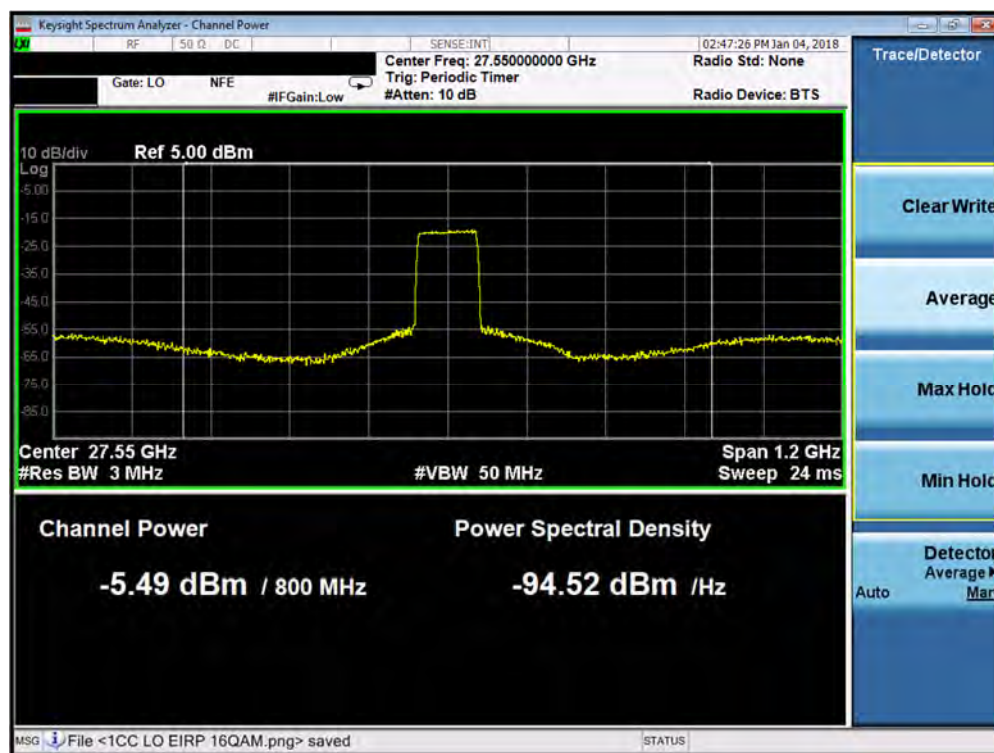
Plot 7-132. Antenna B EIRP Plot (8CC 64QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit	Page 95 of 222

7.4.3 Antenna C Conducted Power

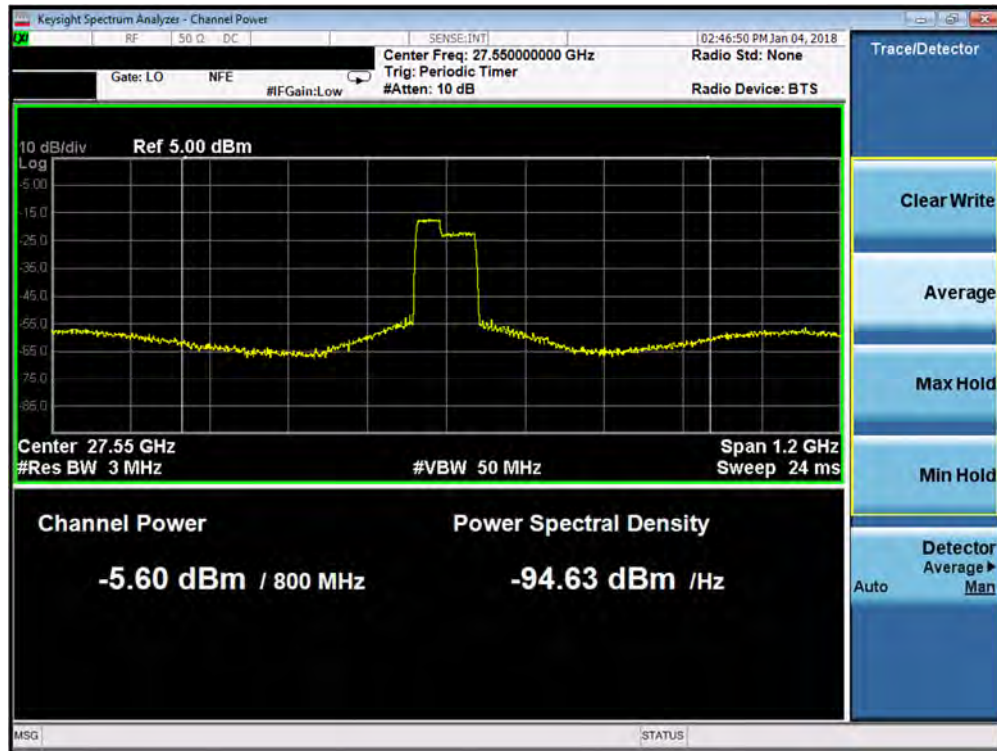
Chan.	Channel Freq [GHz]	CCs active	Modulation	Horn Angle [degrees]	Horn Height [cm]	Turntable Azimuth [degrees]	Analyzer Level [dBm]	AFCL [dB/m]	EUT Antenna Gain [dBi]	Average e.i.r.p. [dBm]	Conducted Average Power [dBm]
Low	27.9	0	QPSK	135.0	153	352	-5.49	52.80	28.15	53.12	24.97
Low	27.9	0	16QAM	135.0	153	352	-5.60	52.80	28.15	53.01	24.86
Low	27.9	0	64QAM	135.0	153	352	-4.85	52.80	28.15	53.76	25.61
Mid	27.925	4	QPSK	135.0	153	352	-5.20	52.80	28.15	53.41	25.26
Mid	27.925	4	16QAM	135.0	153	352	-5.09	52.80	28.15	53.52	25.37
Mid	27.925	4	64QAM	135.0	153	352	-4.89	52.80	28.15	53.72	25.57
High	27.95	7	QPSK	135.0	153	352	-3.92	52.80	28.15	54.69	26.54
High	27.95	7	16QAM	135.0	153	352	-4.10	52.80	28.15	54.51	26.36
High	27.95	7	64QAM	135.0	153	352	-3.91	52.80	28.15	54.70	26.55
Low	27.9	0-7	QPSK	135.0	153	352	-3.85	52.80	28.15	54.76	26.61
Low	27.9	0-7	16QAM	135.0	153	352	-4.46	52.80	28.15	54.15	26.00
Low	27.9	0-7	64QAM	135.0	153	352	-3.72	52.80	28.15	54.89	26.74
Mid	27.925	0-7	QPSK	135.0	153	352	-4.02	52.80	28.15	54.59	26.44
Mid	27.925	0-7	16QAM	135.0	153	352	-4.11	52.80	28.15	54.50	26.35
Mid	27.925	0-7	64QAM	135.0	153	352	-4.00	52.80	28.15	54.61	26.46
High	27.95	0-7	QPSK	135.0	153	352	-4.71	52.80	28.15	53.90	25.75
High	27.95	0-7	16QAM	135.0	153	352	-4.76	52.80	28.15	53.85	25.70
High	27.95	0-7	64QAM	135.0	153	352	-4.45	52.80	28.15	54.16	26.01

Table 7-14. Antenna C Conducted Power Summary Data

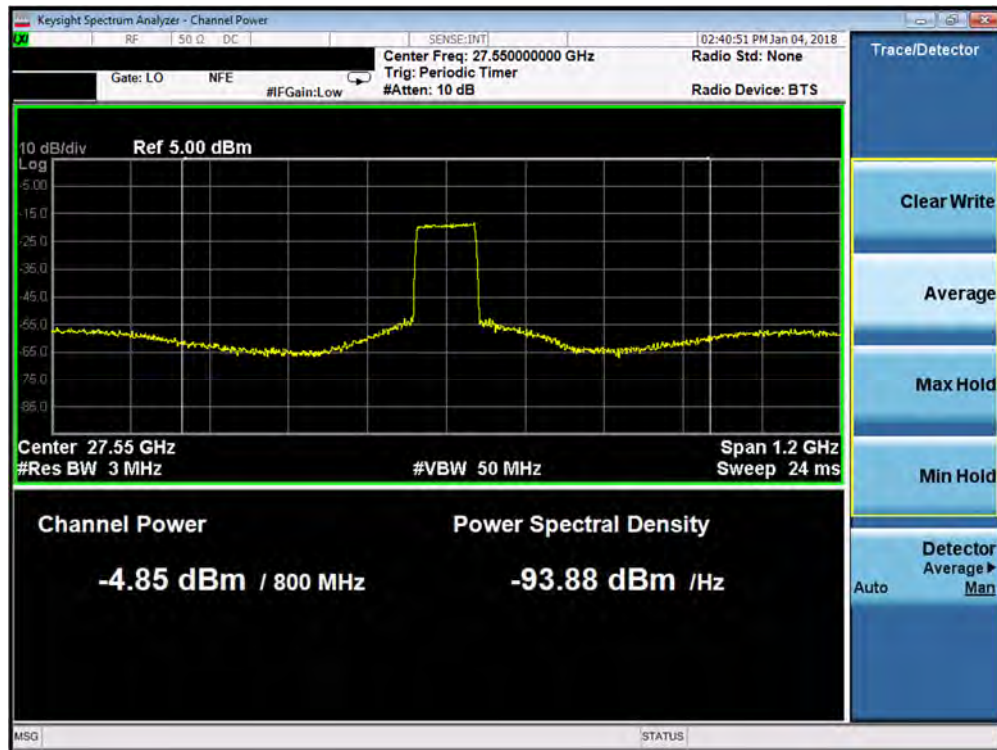


Plot 7-133. Antenna C EIRP Plot (1CC QPSK Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 96 of 222

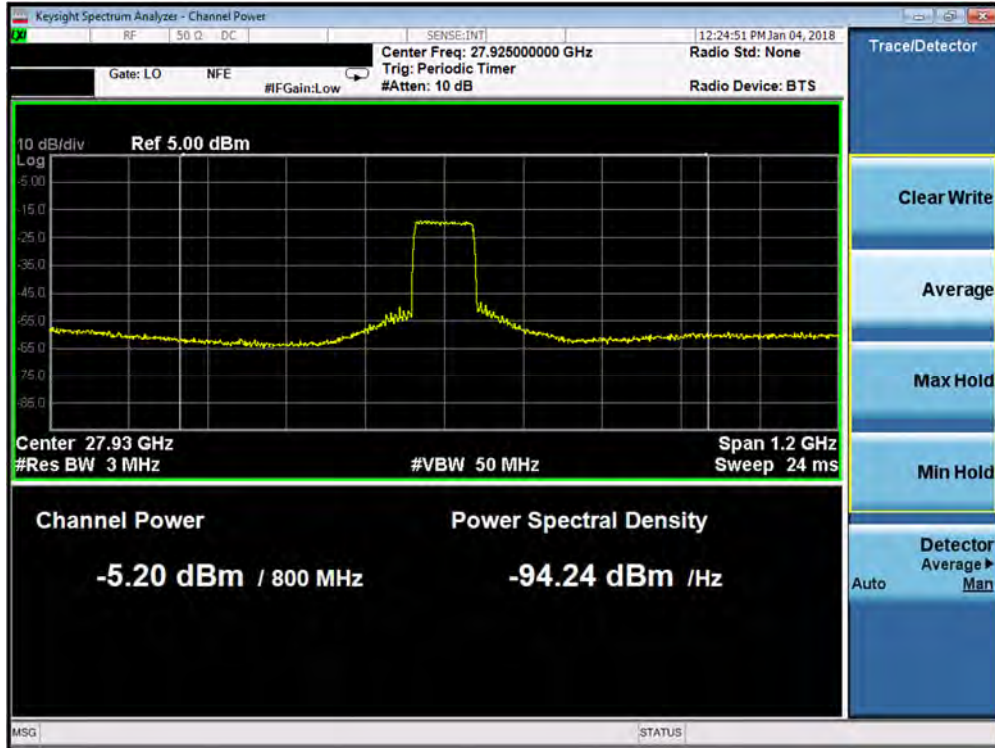


Plot 7-134. Antenna C EIRP Plot (1CC 16QAM Low Channel)

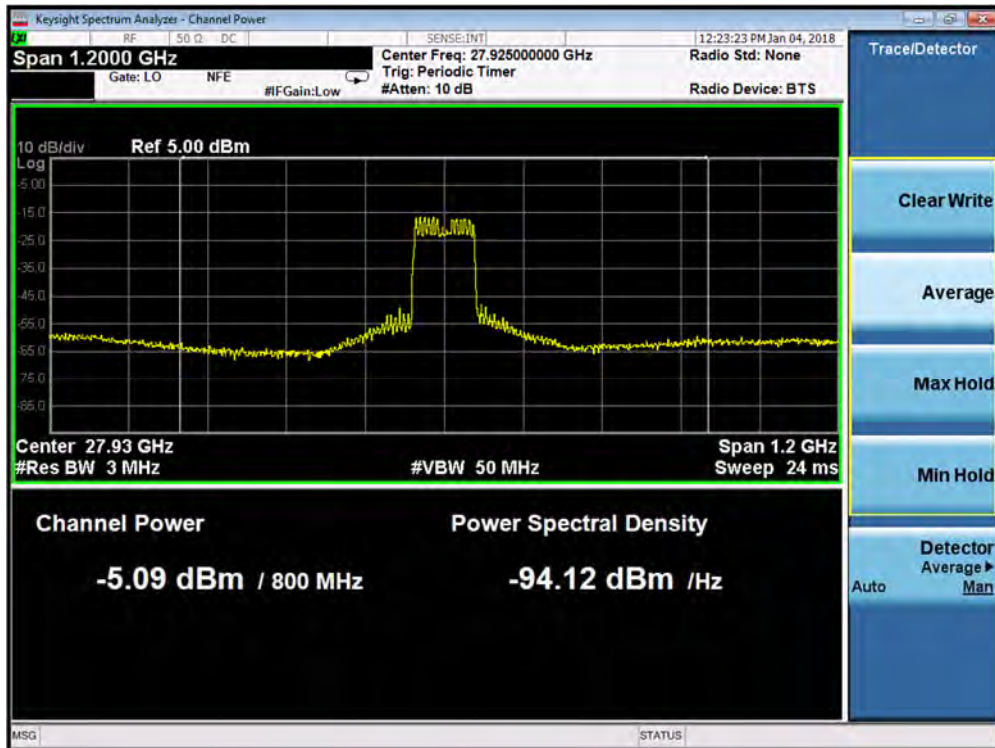


Plot 7-135. Antenna C EIRP Plot (1CC 64QAM Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 97 of 222

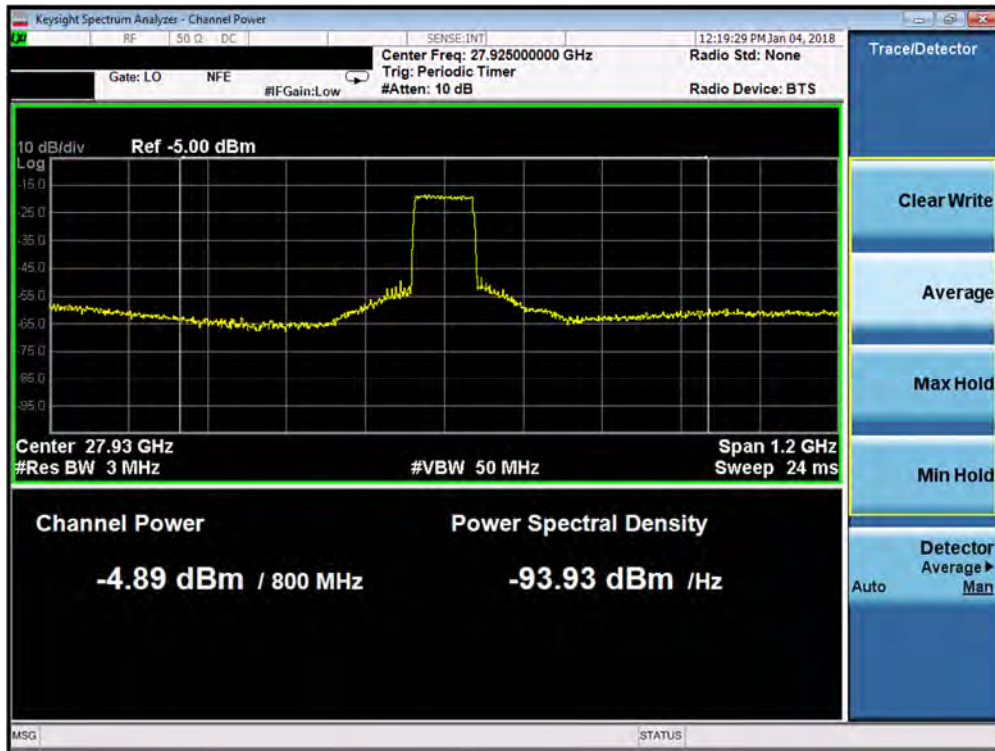


Plot 7-136. Antenna C EIRP Plot (1CC QPSK Mid Channel)

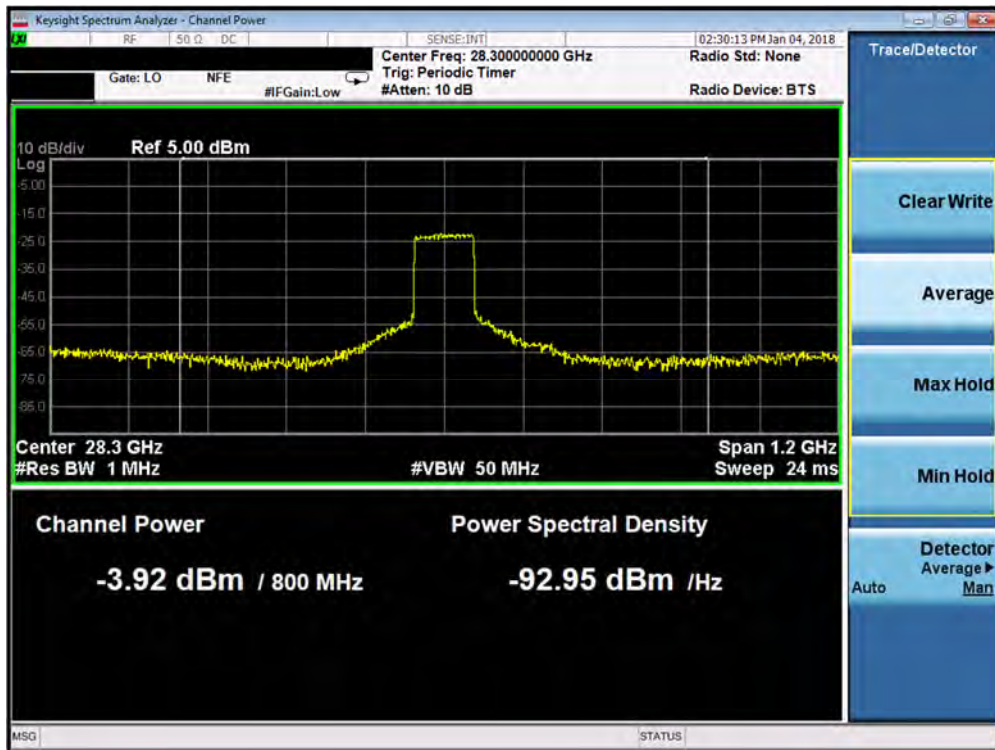


Plot 7-137. Antenna C EIRP Plot (1CC 16QAM Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 98 of 222

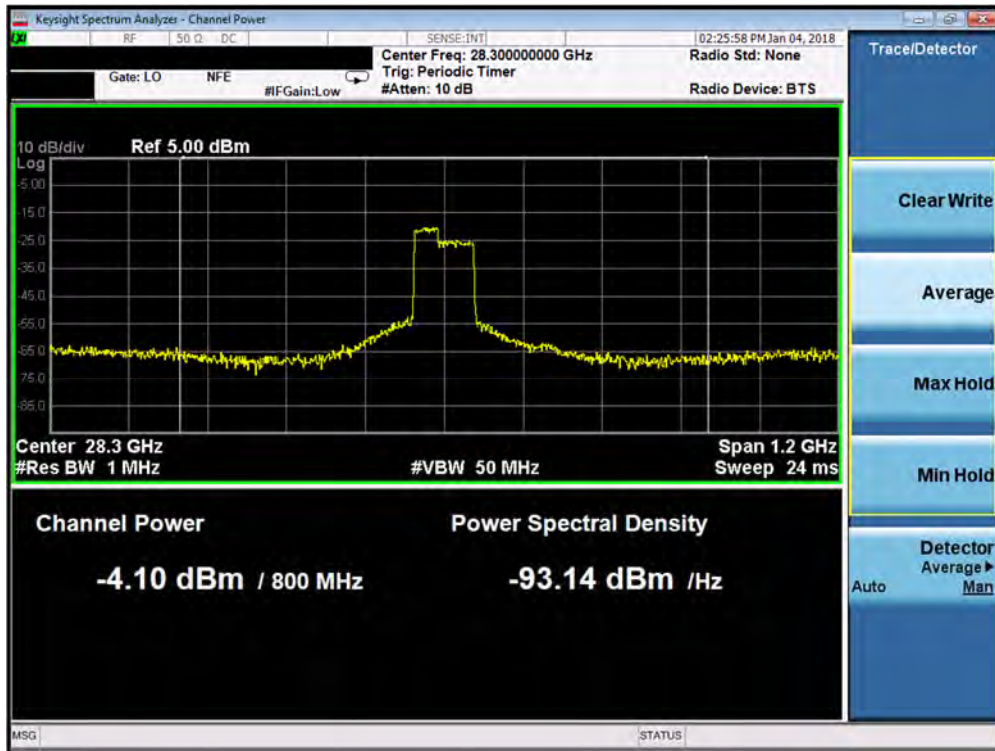


Plot 7-138. Antenna C EIRP Plot (1CC 64QAM Mid Channel)

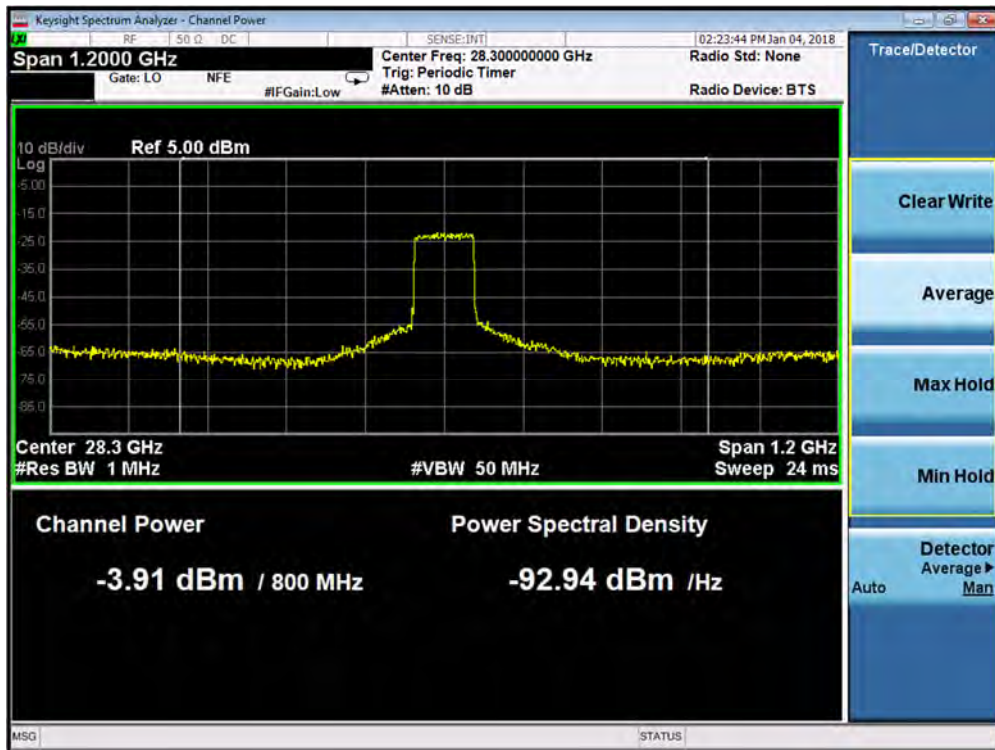


Plot 7-139. Antenna C EIRP Plot (1CC QPSK High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 99 of 222

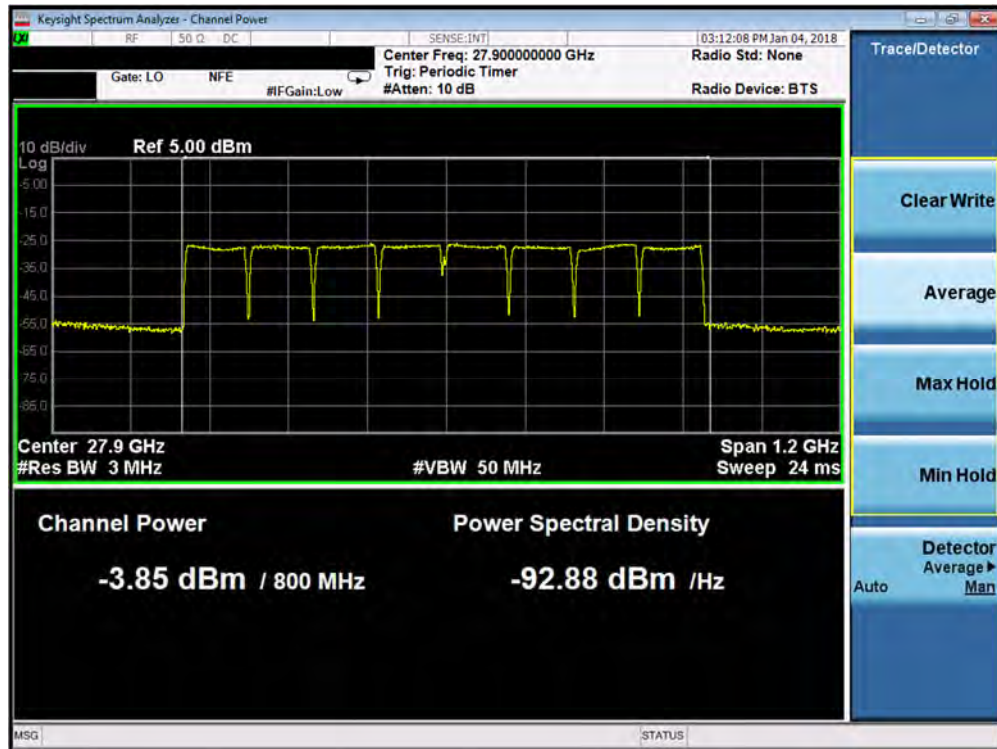


Plot 7-140. Antenna C EIRP Plot (1CC 16QAM High Channel)

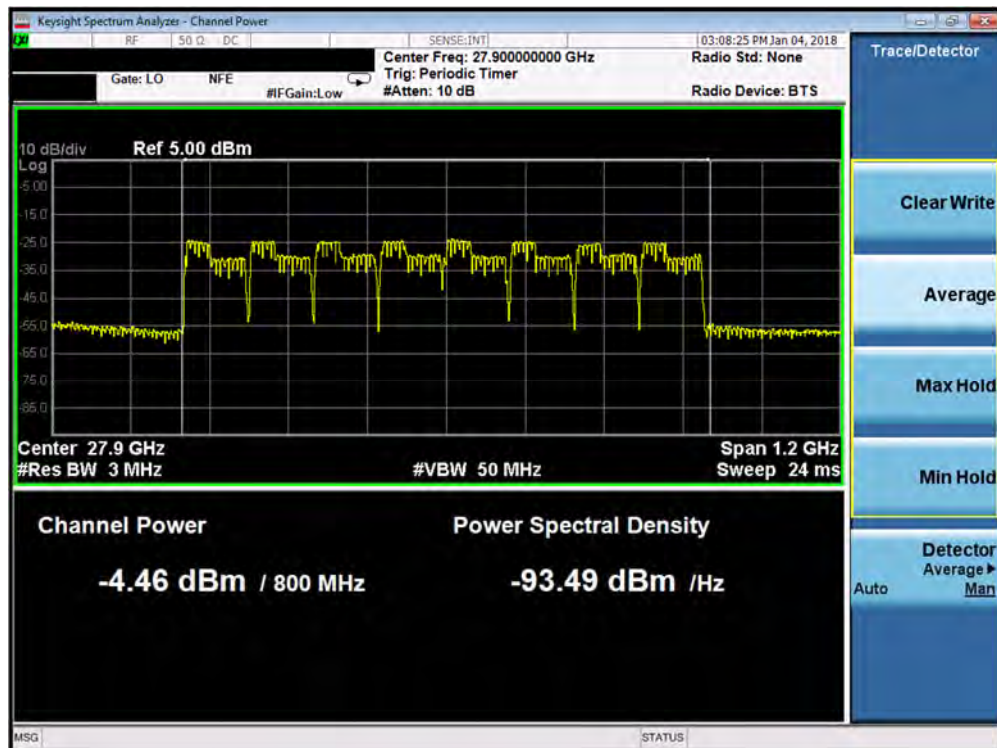


Plot 7-141. Antenna C EIRP Plot (1CC 64QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 100 of 222

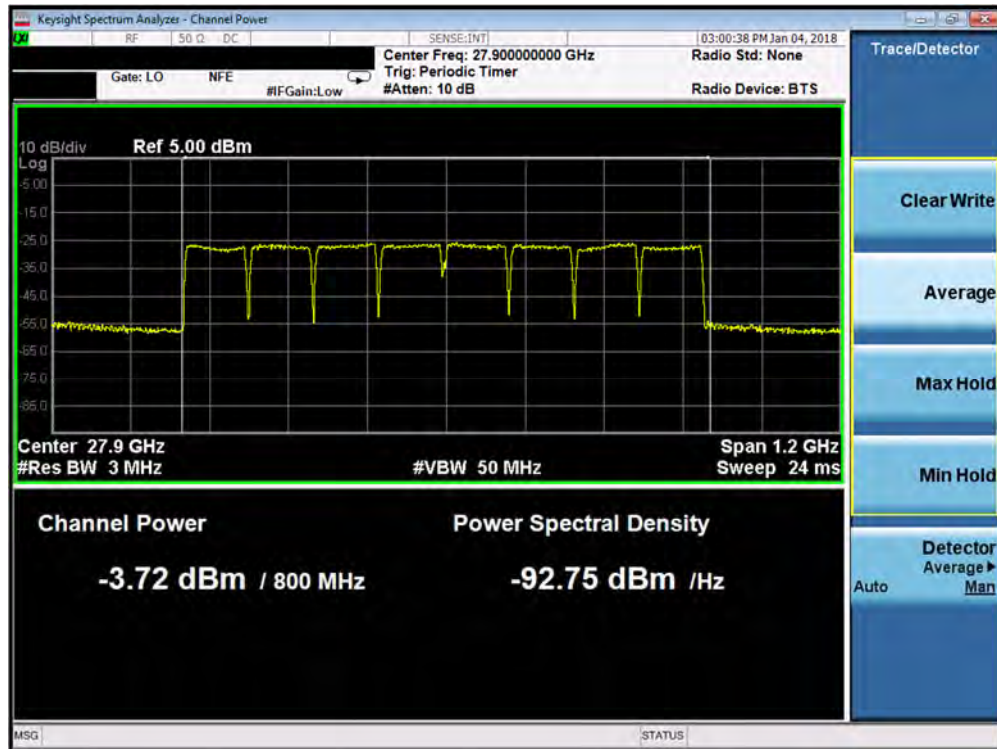


Plot 7-142. Antenna C EIRP Plot (8CC QPSK Low Channel)

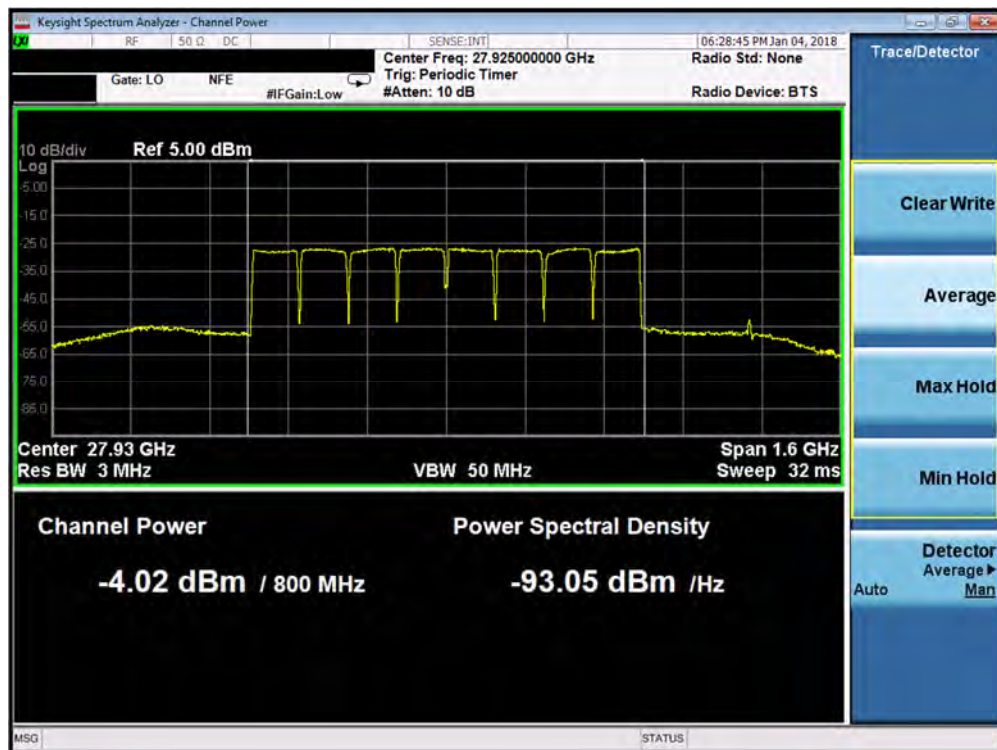


Plot 7-143. Antenna C EIRP Plot (8CC 16QAM Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 101 of 222

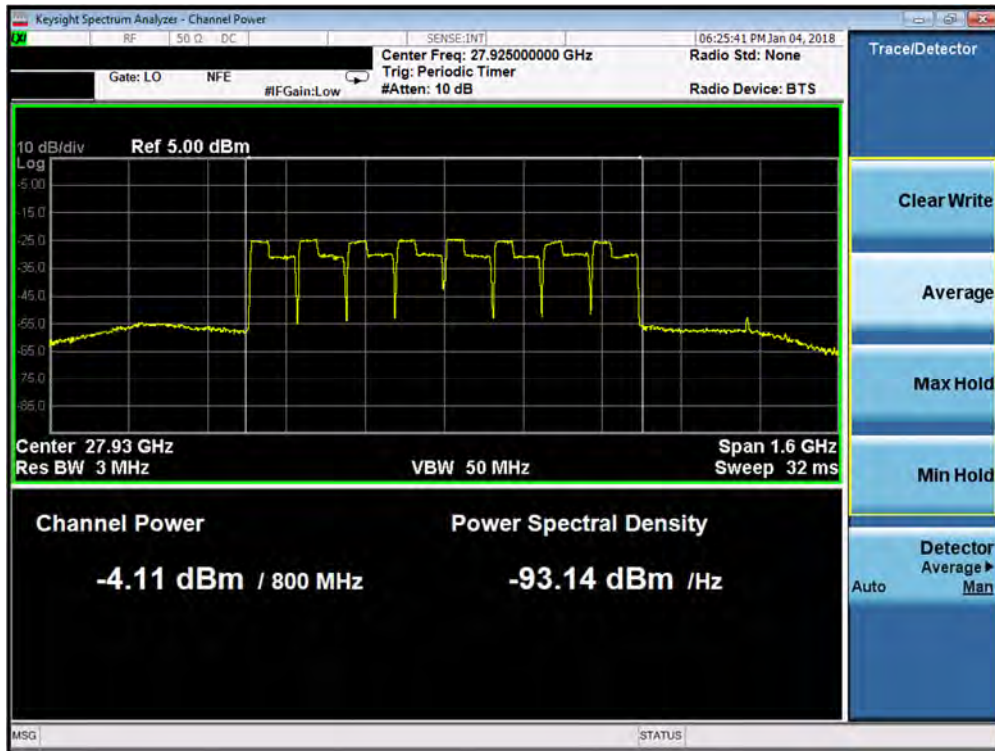


Plot 7-144. Antenna C EIRP Plot (8CC 64QAM Low Channel)

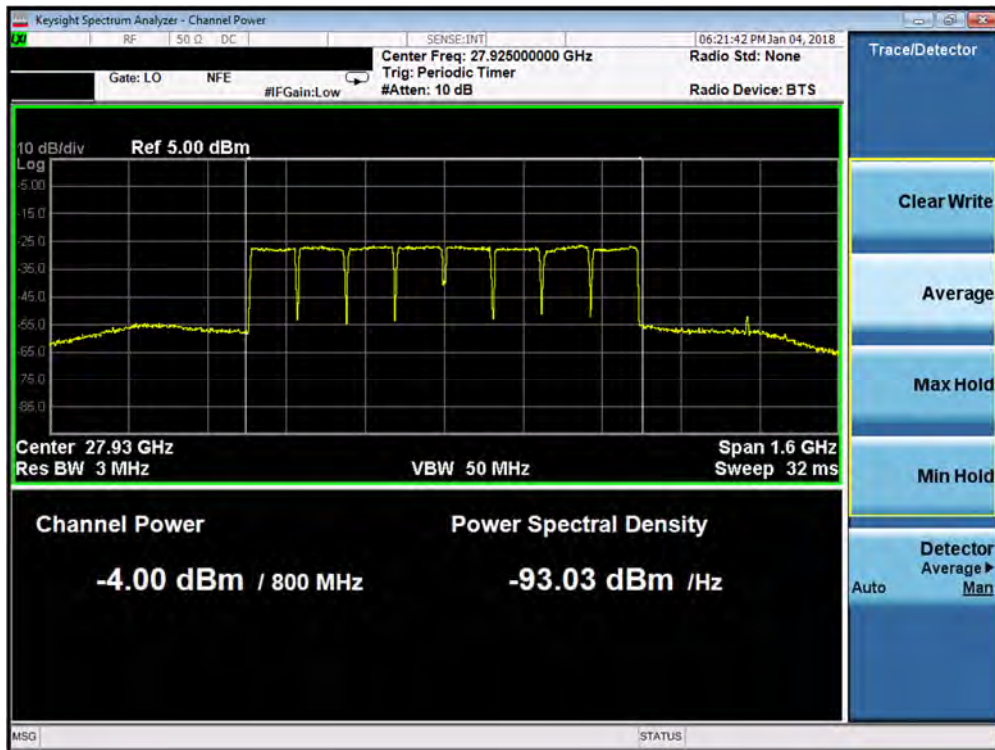


Plot 7-145. Antenna C EIRP Plot (8CC QPSK Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 102 of 222



Plot 7-146. Antenna C EIRP Plot (8CC 16QAM Mid Channel)



Plot 7-147. Antenna C EIRP Plot (8CC 64QAM Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 103 of 222

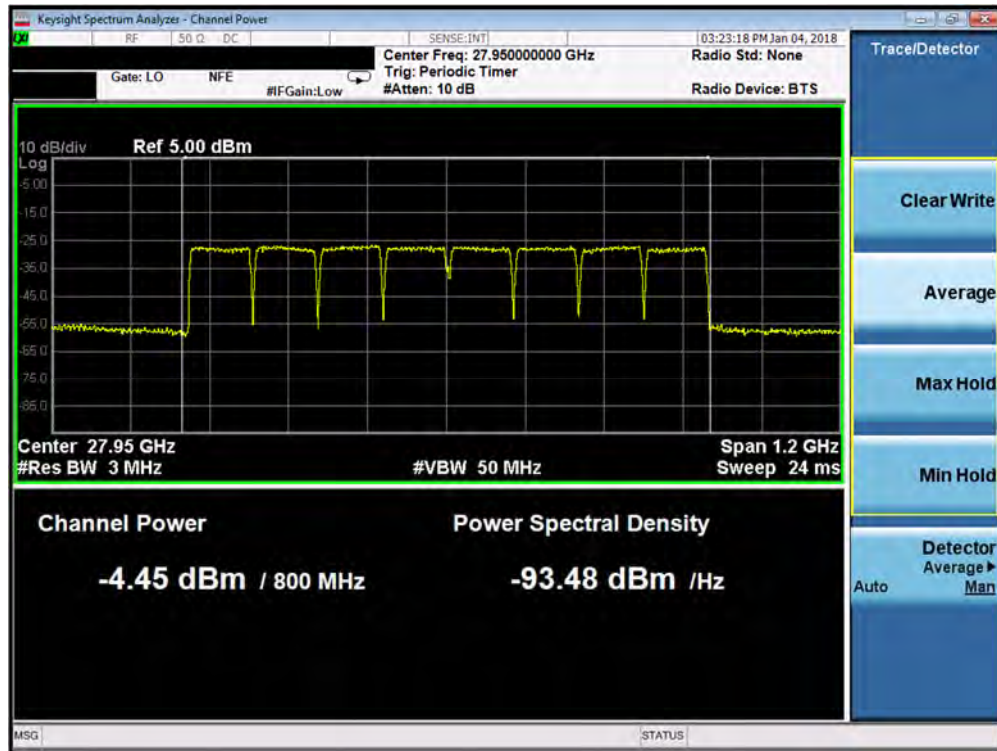


Plot 7-148. Antenna C EIRP Plot (8CC QPSK High Channel)



Plot 7-149. Antenna C EIRP Plot (8CC 16QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 104 of 222



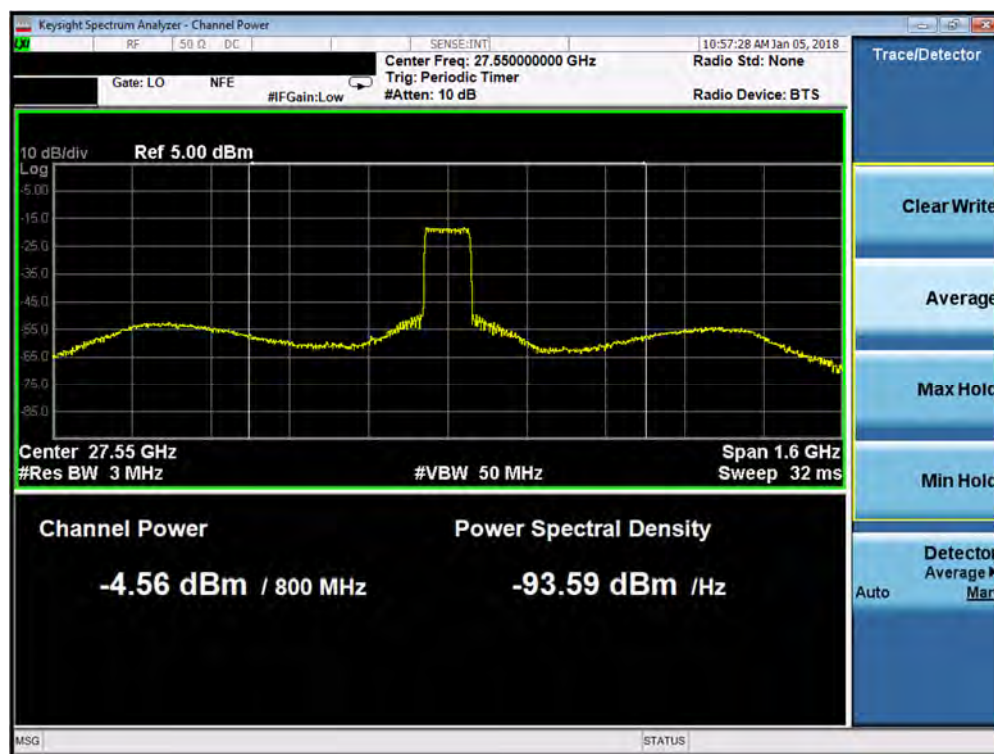
Plot 7-150. Antenna C EIRP Plot (8CC 64QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 105 of 222

7.4.4 Antenna D Conducted Power

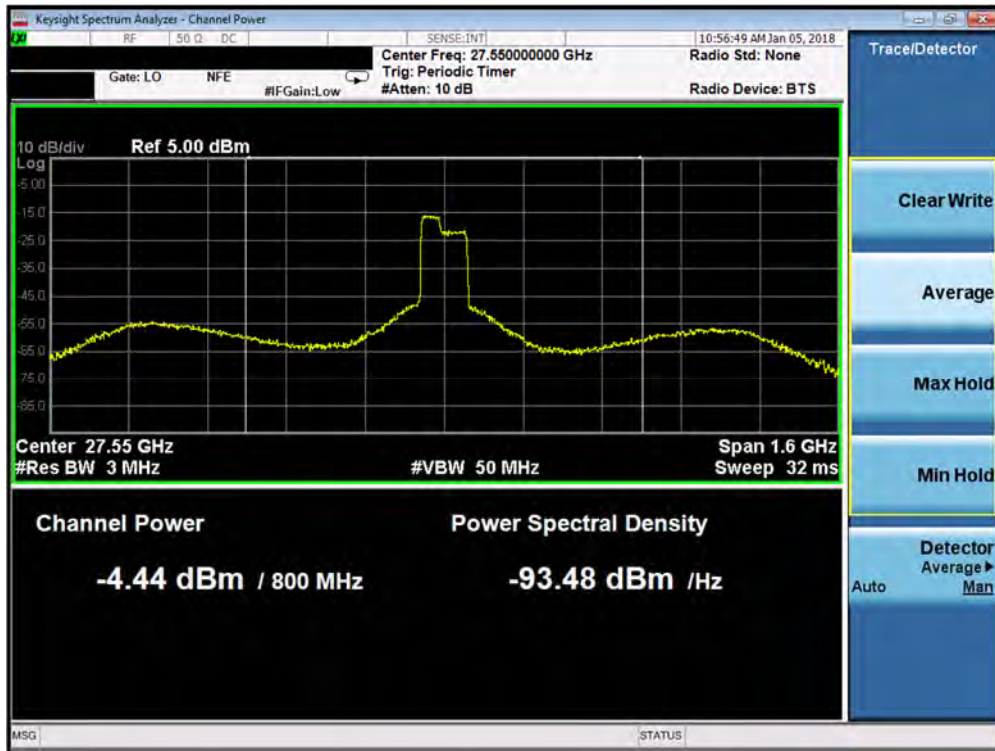
Antenna	Chan.	Channel Freq [GHz]	CCs active	Modulation	Horn Angle	Horn Height	Turntable Azimuth	Analyzer Level	AFCL	EUT Antenna Gain	Average e.i.r.p.	Conducted Average Power
					[degrees]	[cm]	[degrees]	[dBm]	[dB/m]	[dBi]	[dBm]	[dBm]
D	Low	27.9	0	QPSK	45.0	146	356	-4.56	52.80	28.15	54.05	25.90
	Low	27.9	0	16QAM	45.0	146	356	-4.44	52.80	28.15	54.17	26.02
	Low	27.9	0	64QAM	45.0	146	356	-4.29	52.80	28.15	54.32	26.17
	Mid	27.925	4	QPSK	45.0	146	356	-4.11	52.80	28.15	54.50	26.35
	Mid	27.925	4	16QAM	45.0	146	356	-3.77	52.80	28.15	54.84	26.69
	Mid	27.925	4	64QAM	45.0	146	356	-3.66	52.80	28.15	54.95	26.80
	High	27.95	7	QPSK	45.0	146	356	-4.30	52.80	28.15	54.31	26.16
	High	27.95	7	16QAM	45.0	146	356	-4.44	52.80	28.15	54.17	26.02
	High	27.95	7	64QAM	45.0	146	356	-4.19	52.80	28.15	54.42	26.27
	Low	27.9	0-7	QPSK	45.0	153	347	-4.55	52.80	28.15	54.06	25.91
	Low	27.9	0-7	16QAM	45.0	153	347	-4.27	52.80	28.15	54.34	26.19
	Low	27.9	0-7	64QAM	45.0	146	356	-4.09	52.80	28.15	54.52	26.37
	Mid	27.925	0-7	QPSK	45.0	153	347	-4.47	52.80	28.15	54.14	25.99
	Mid	27.925	0-7	16QAM	45.0	153	347	-4.83	52.80	28.15	53.78	25.63
	Mid	27.925	0-7	64QAM	45.0	146	356	-4.26	52.80	28.15	54.35	26.20
	High	27.95	0-7	QPSK	45.0	153	347	-4.39	52.80	28.15	54.22	26.07
	High	27.95	0-7	16QAM	45.0	153	347	-4.32	52.80	28.15	54.29	26.14
	High	27.95	0-7	64QAM	45.0	146	356	-4.05	52.80	28.15	54.56	26.41

Table 7-15. Antenna D Conducted Power Summary Data

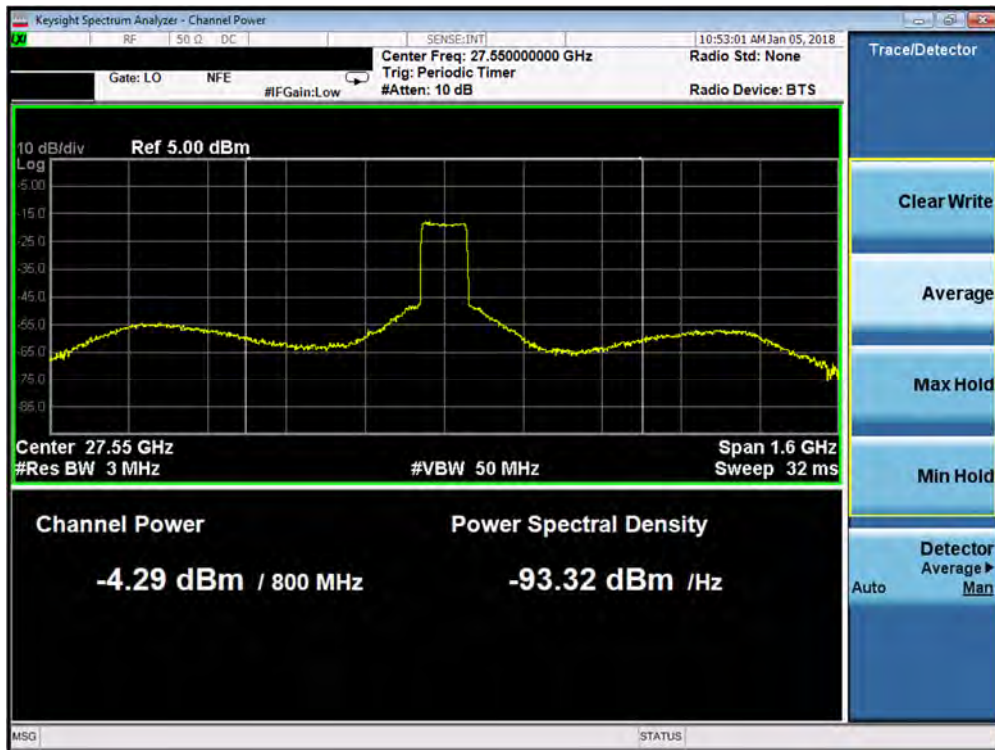


Plot 7-151. Antenna D EIRP Plot (1CC QPSK Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 106 of 222

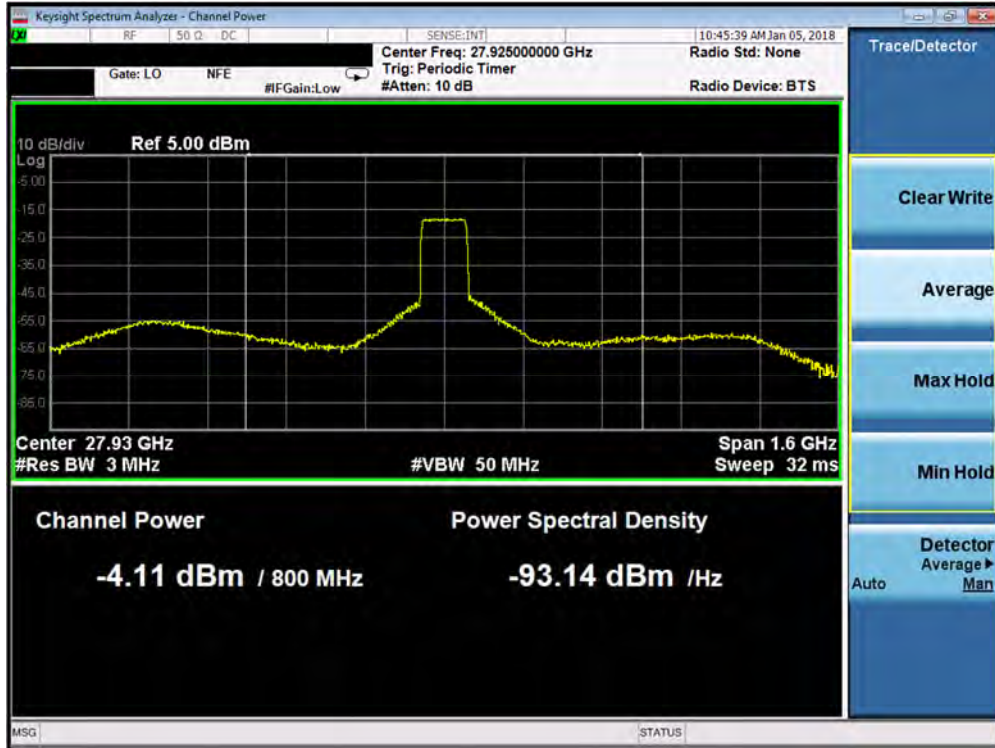


Plot 7-152. Antenna D EIRP Plot (1CC 16QAM Low Channel)



Plot 7-153. Antenna D EIRP Plot (1CC 64QAM Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 107 of 222

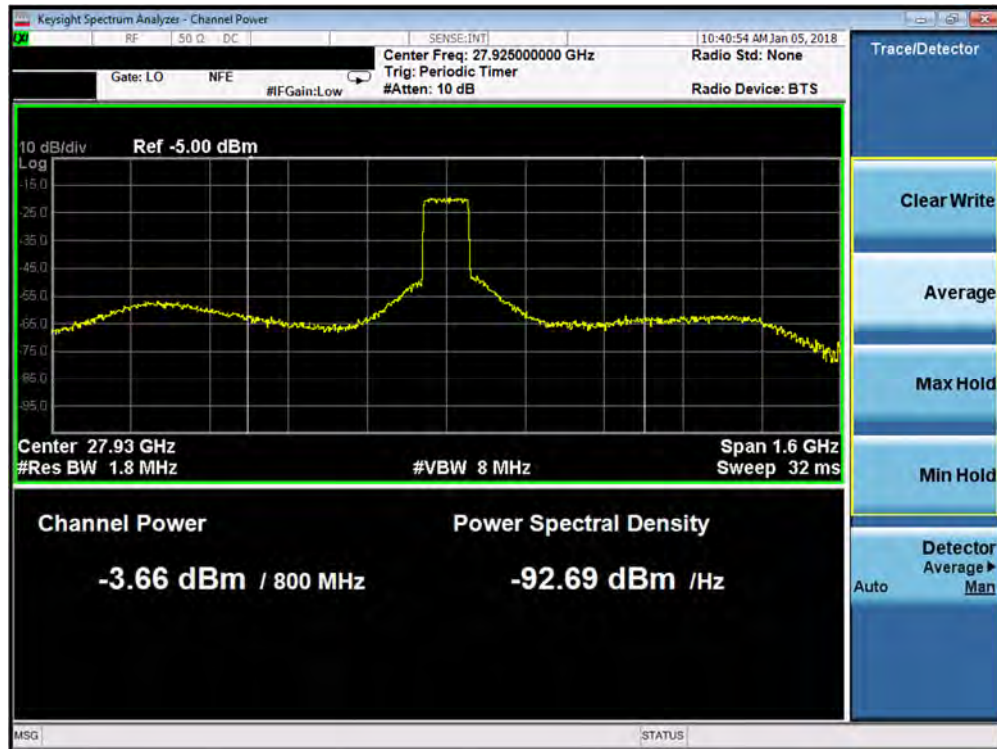


Plot 7-154. Antenna D EIRP Plot (1CC QPSK Mid Channel)

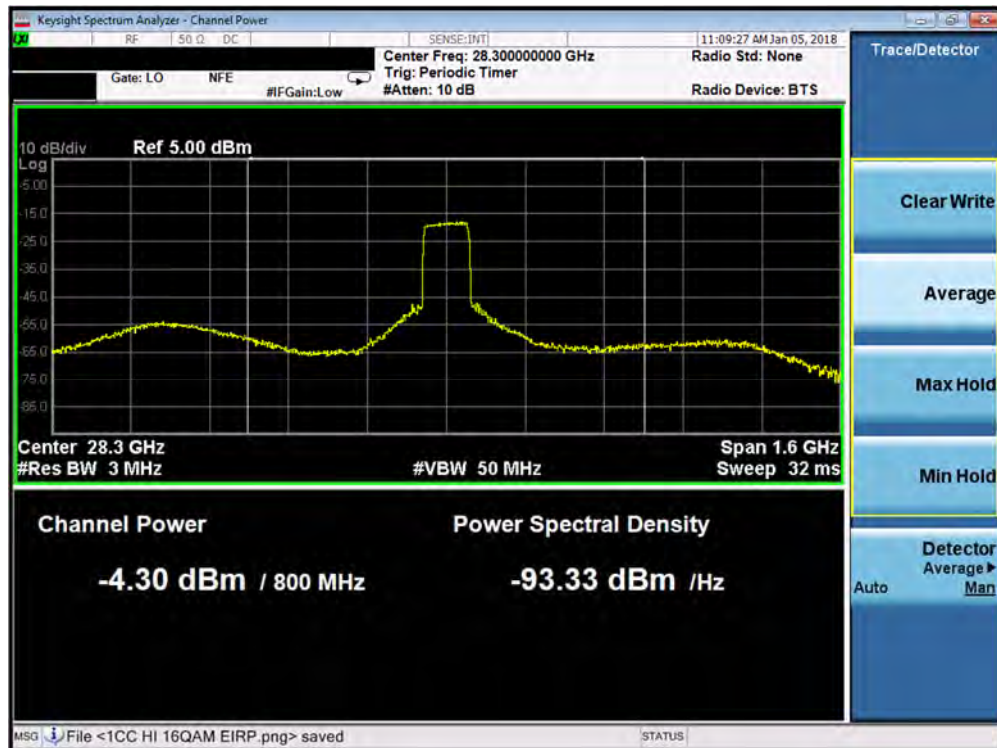


Plot 7-155. Antenna D EIRP Plot (1CC 16QAM Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 108 of 222



Plot 7-156. Antenna D EIRP Plot (1CC 64QAM Mid Channel)

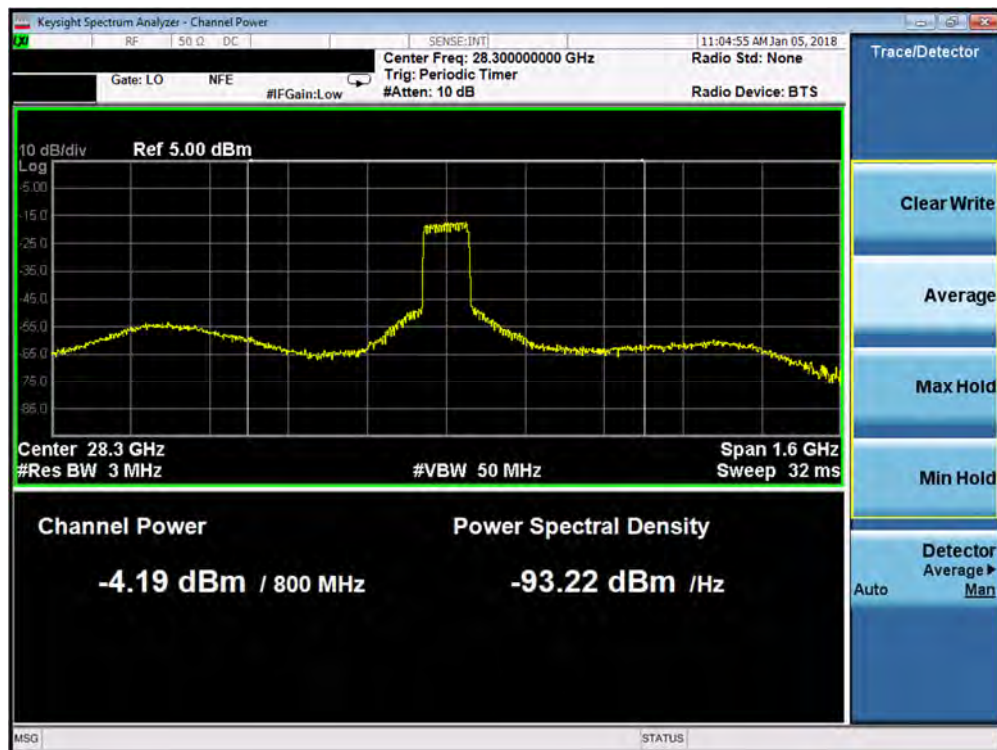


Plot 7-157. Antenna D EIRP Plot (1CC QPSK High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 109 of 222

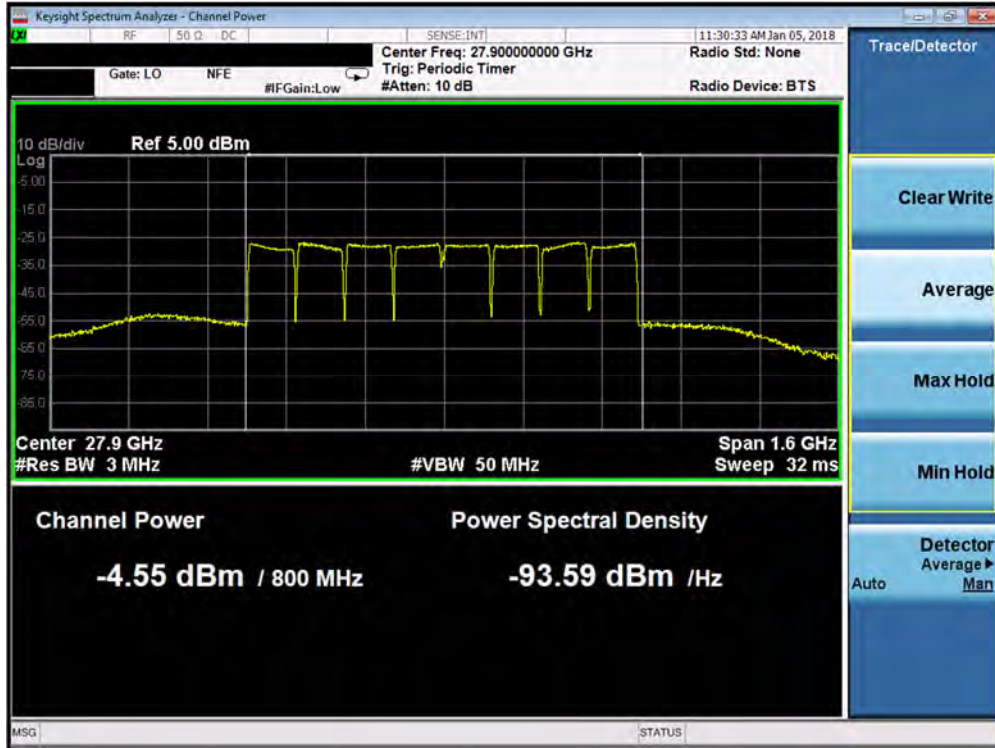


Plot 7-158. Antenna D EIRP Plot (1CC 16QAM High Channel)



Plot 7-159. Antenna D EIRP Plot (1CC 64QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 110 of 222

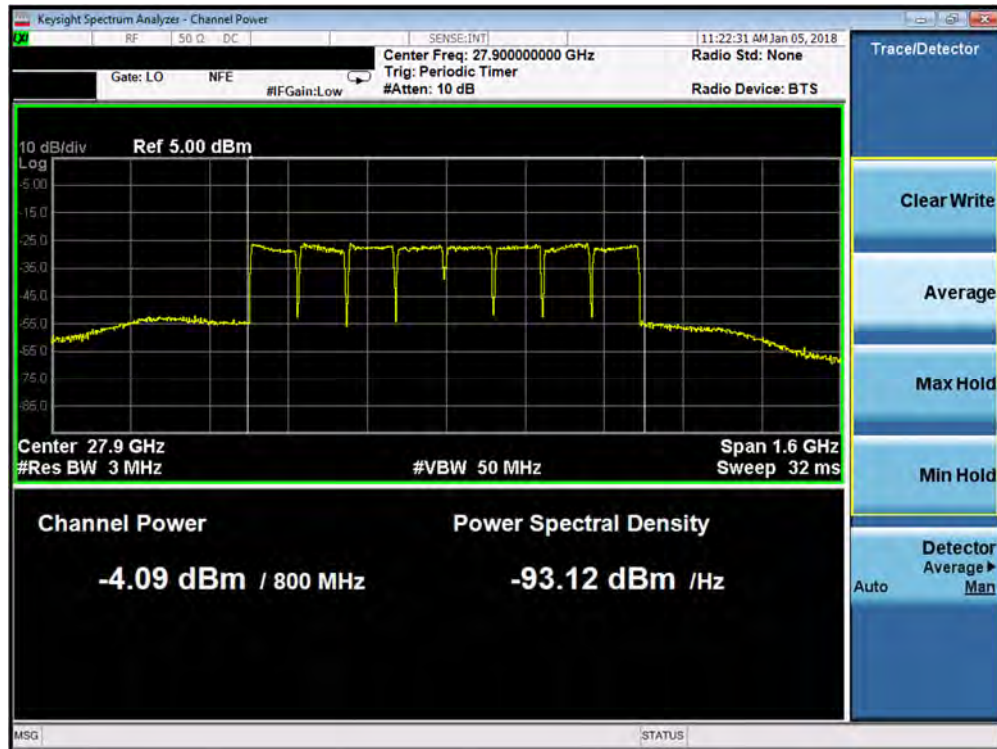


Plot 7-160. Antenna D EIRP Plot (8CC QPSK Low Channel)



Plot 7-161. Antenna D EIRP Plot (8CC 16QAM Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 111 of 222



Plot 7-162. Antenna D EIRP Plot (8CC 64QAM Low Channel)



Plot 7-163. Antenna D EIRP Plot (8CC QPSK Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 112 of 222



Plot 7-164. Antenna D EIRP Plot (8CC 16QAM Mid Channel)

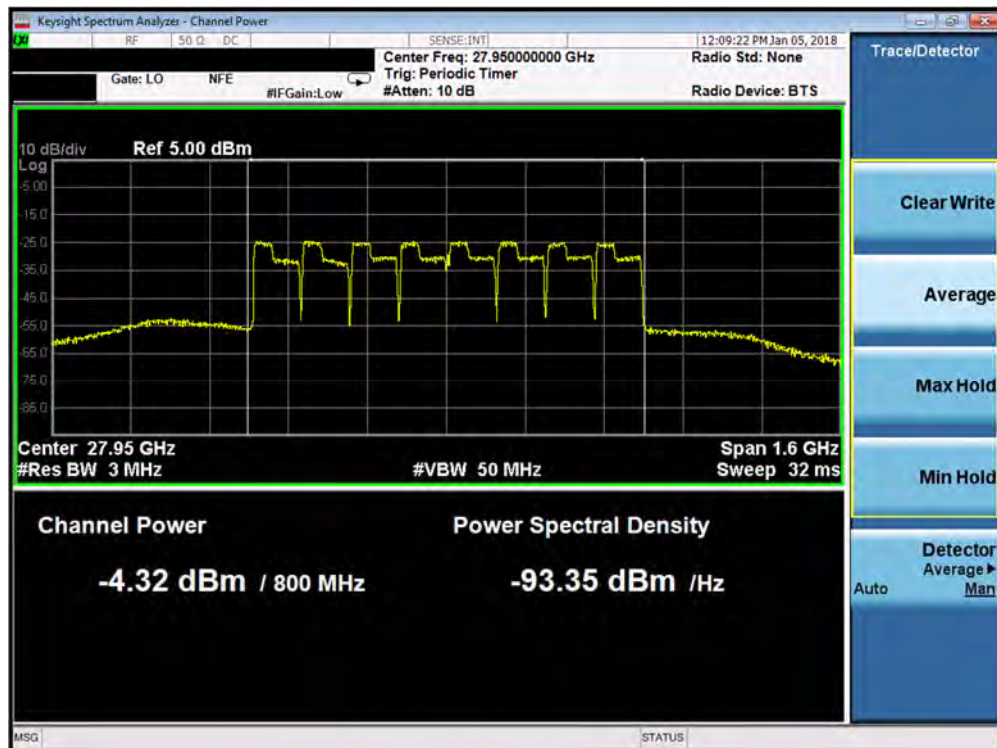


Plot 7-165. Antenna D EIRP Plot (8CC 64QAM Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 113 of 222

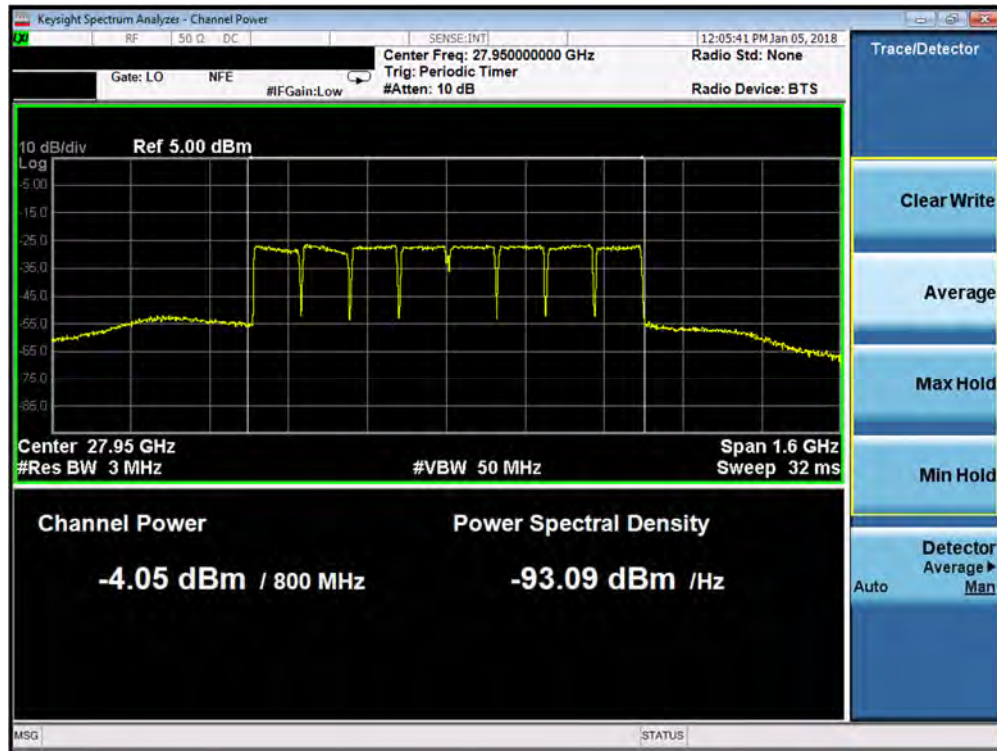


Plot 7-166. Antenna D EIRP Plot (8CC QPSK High Channel)



Plot 7-167. Antenna D EIRP Plot (8CC 16QAM High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 114 of 222



Plot 7-168. Antenna D EIRP Plot (8CC 64QAM High Channel)

FCC ID: A3LSFG-AA100DC	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit	Page 115 of 222

7.4.5 Total Conducted Power (Summed Across All Antennas)

Antenna	Chan.	Channel Freq [GHz]	CCs active	Modulation	Ant A	Ant B	Ant C	Ant D	Conducted Average Power
									[dBm]
A+B+C+D	Low	27.9	0	QPSK	25.10	25.32	24.97	25.90	31.35
	Low	27.9	0	16QAM	24.72	25.69	24.86	26.02	31.37
	Low	27.9	0	64QAM	24.68	25.41	25.61	26.17	31.52
	Mid	27.925	4	QPSK	25.97	26.52	25.26	26.35	32.07
	Mid	27.925	4	16QAM	25.84	26.86	25.37	26.69	32.25
	Mid	27.925	4	64QAM	25.37	26.90	25.57	26.80	32.23
	High	27.95	7	QPSK	25.77	26.66	26.54	26.16	32.31
	High	27.95	7	16QAM	25.56	26.59	26.36	26.02	32.17
	High	27.95	7	64QAM	25.67	26.48	26.55	26.27	32.27
	Low	27.9	0-7	QPSK	26.55	25.61	26.61	25.91	32.21
	Low	27.9	0-7	16QAM	26.49	25.52	26.00	26.19	32.08
	Low	27.9	0-7	64QAM	26.50	25.58	26.74	26.37	32.34
	Mid	27.925	0-7	QPSK	26.33	25.60	26.44	25.99	32.12
	Mid	27.925	0-7	16QAM	26.22	25.59	26.35	25.63	31.98
	Mid	27.925	0-7	64QAM	26.29	25.56	26.46	26.20	32.16
	High	27.95	0-7	QPSK	26.21	26.01	25.75	26.07	32.03
	High	27.95	0-7	16QAM	26.16	26.01	25.70	26.14	32.02
	High	27.95	0-7	64QAM	26.22	25.85	26.01	26.41	32.14

Table 7-16. Total Conducted Power Summary Data

FCC ID: A3LSFG-AA100DC		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 116 of 222

7.5 Radiated Spurious and Harmonic Emissions

§2.1051 §30.203

Test Overview

Out of band emissions were scanned from 30MHz to 100GHz in a radiated test setup with the EUT operating at maximum duty cycle and power. Spurious emission plots were obtained for Low, Mid, and High operating channels. All modulations and applicable CC settings were investigated to determine worst case condition.

The conductive power or total radiated power of any emissions outside a licensee's frequency block shall be -13dBm/1MHz.

Test Procedure Used

ANSI C63.26-2015 Section 5.7.4

ANSI C63.26-2015 Section 6.4

Test Settings

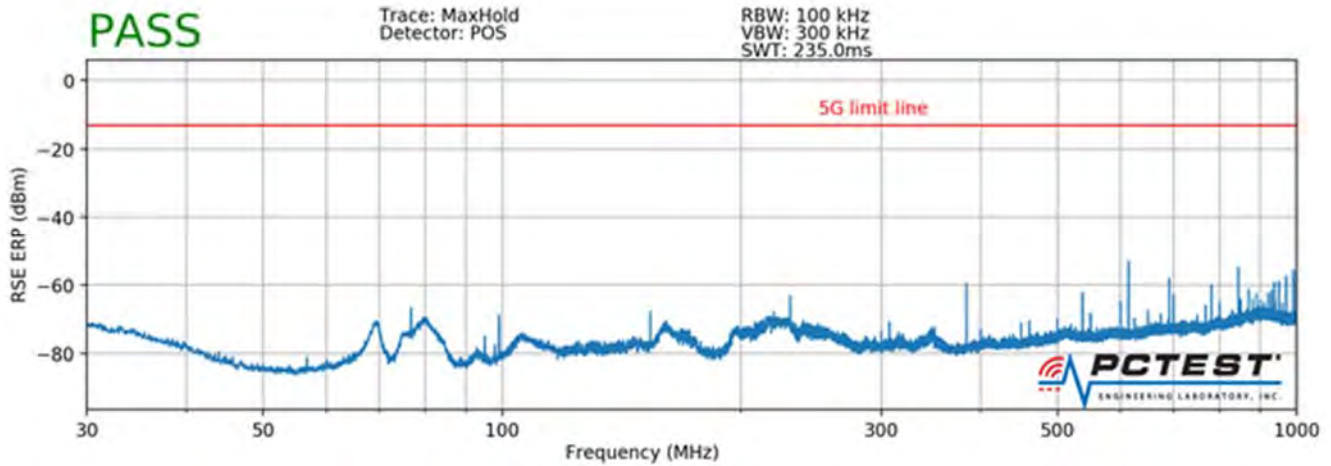
1. Start frequency was set to 30MHz and stop frequency was set to 100 GHz. Several plots are used to show investigations in this entire span.
2. Detector = RMS
3. Trace mode = trace average
4. Sweep time = auto couple
5. Number of sweep points $\geq 2 \times \text{Span/RBW}$
6. The trace was allowed to stabilize
7. RBW = 1MHz, VBW = 1MHz

Test Notes

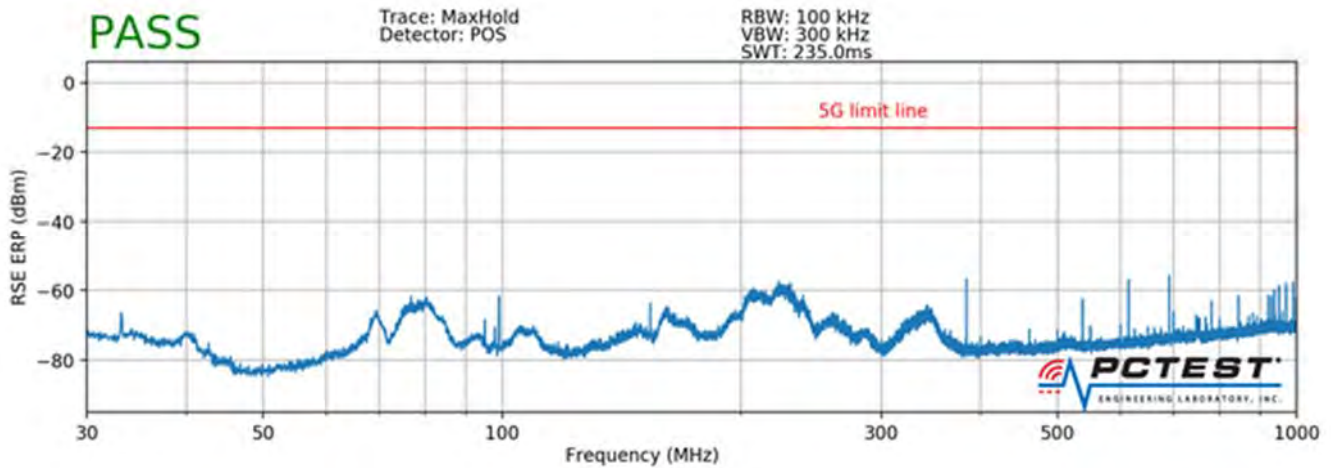
- 1) The EUT was tested while positioned upright and mounted on a mast 1.5m height. The worst case emissions are reported with the EUT in this fixed position and with the modulations and active component carriers shown in the tables below.
- 2) Emissions below 18GHz were measured at a 3 meter test distance, while emissions above 18GHz were measured at the appropriate far field distance.
- 3) All appropriate Antenna Factor, Cable Loss, and Conversion Loss have been applied in the spectrum analyzer for each measurement.
- 4) 1CC = 1 Components Carriers Active, 8CC = 8 Component Carriers Active. Each component carrier's bandwidth is 100MHz.
- 5) The plots from 30MHz -100GHz show corrected EIRP levels. The average EIRP levels shown is calculated per section 5.2.7 of ANSI C63.26-2015.
- 6) The angle of the horn antenna was rotated to maximize and find the worst case emissions.
- 7) As the out of band emissions limit is defined for conductive power, the equivalent conductive power is calculated by subtracting the gain of the EUT's antenna from the EIRP level measured at the spectrum analyzer. Following each of the sections of the radiated spurious emissions plots is a table with calculations of conductive power levels for identified spurious emissions
- 8) All angles were investigated for spurious emissions above 40GHz. The worst case is reported in this section.

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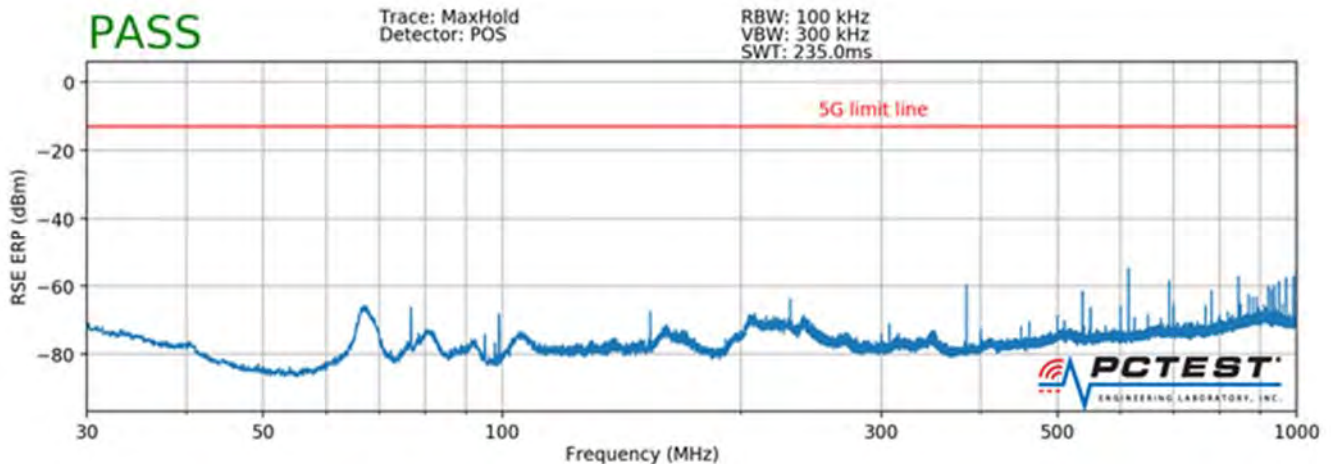
7.5.1 Radiated Spurious Emissions Plots (30MHz – 1GHz)



Plot 7-169. Radiated Spurious Plot 30 MHz - 1 GHz (1CC QPSK Low Channel, Ant. Pol. H)

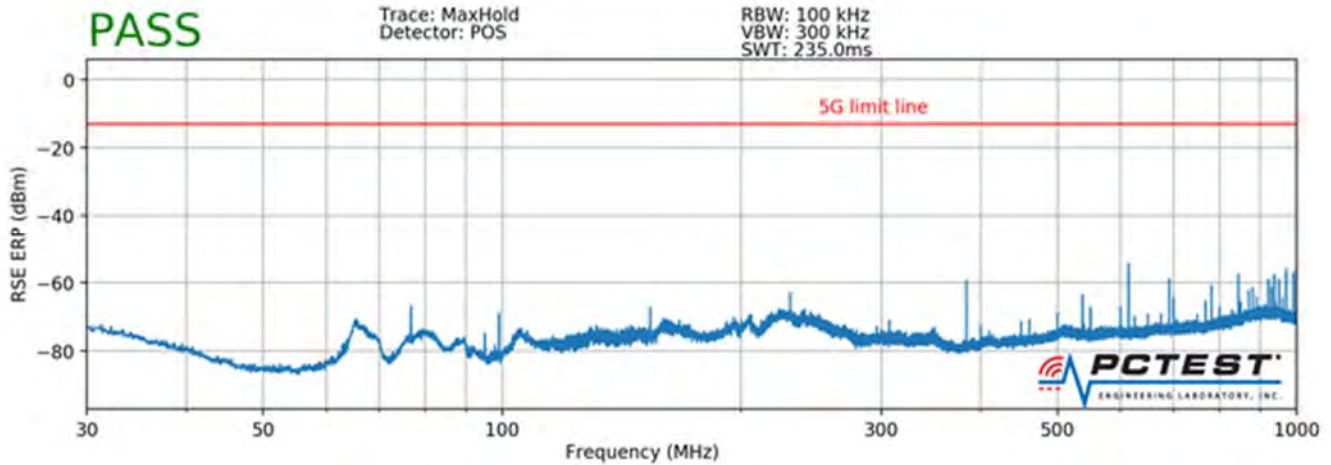


Plot 7-170. Radiated Spurious Plot 30 MHz - 1 GHz (1CC QPSK Low Channel, Ant. Pol. V)

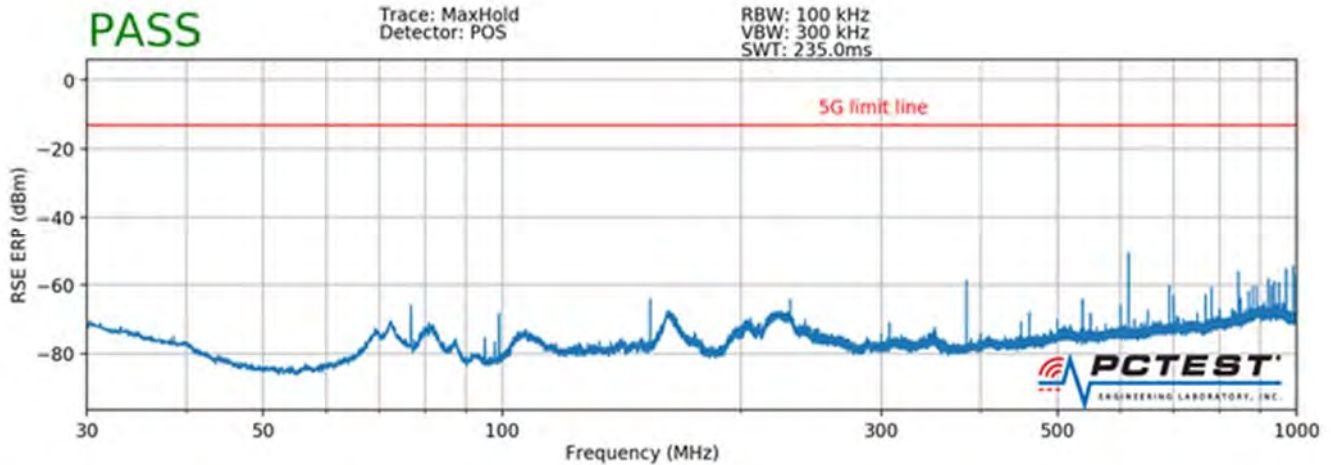


Plot 7-171. Radiated Spurious Plot 30 MHz - 1 GHz (1CC QPSK Mid Channel, Ant. Pol. H)

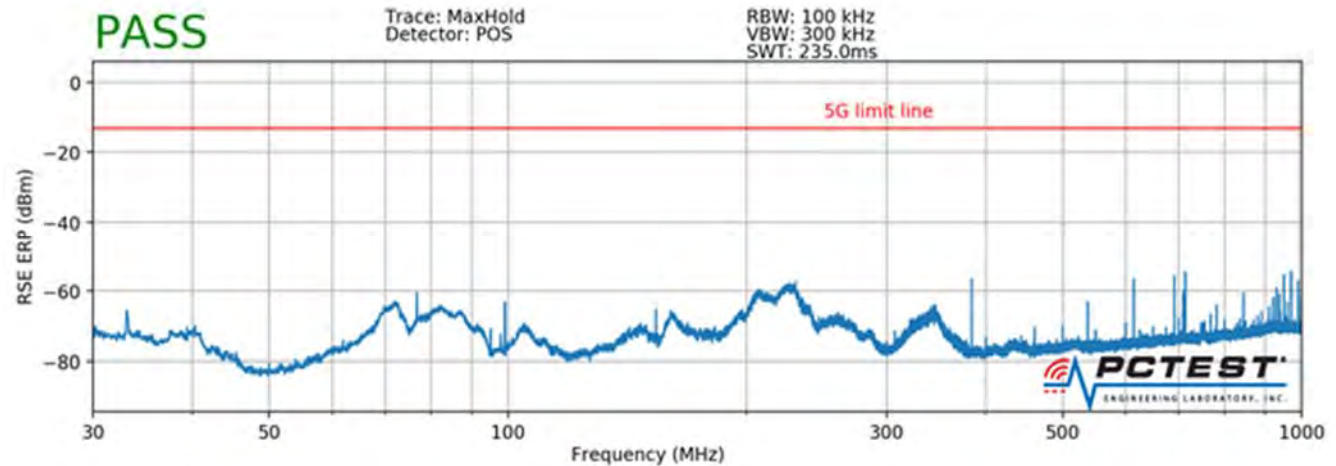
FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-172. Radiated Spurious Plot 30 MHz - 1 GHz (1CC QPSK Mid Channel, Ant. Pol. V)

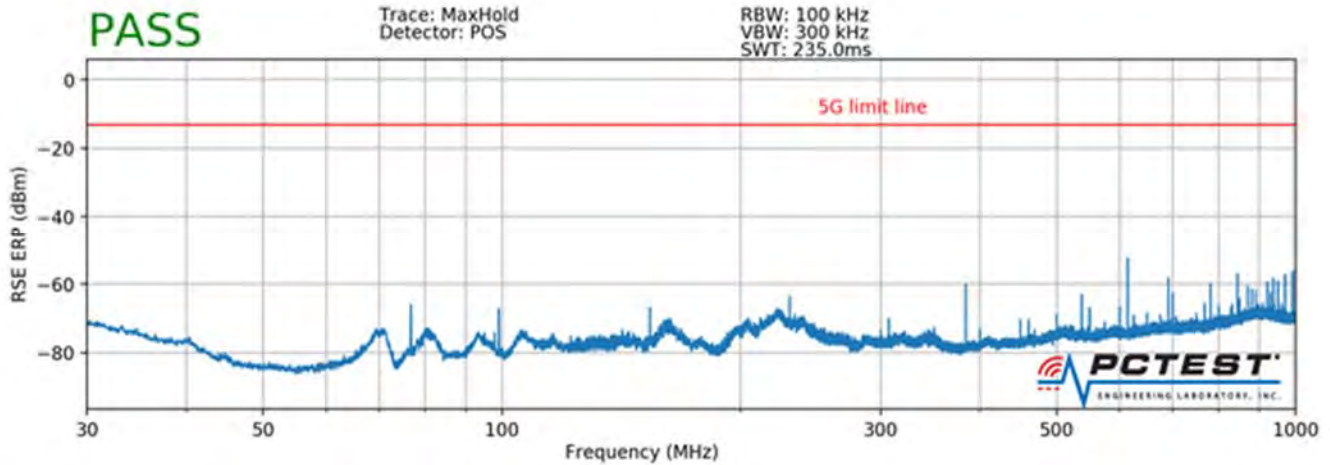


Plot 7-173. Radiated Spurious Plot 30 MHz - 1 GHz (1CC QPSK High Channel, Ant. Pol. H)

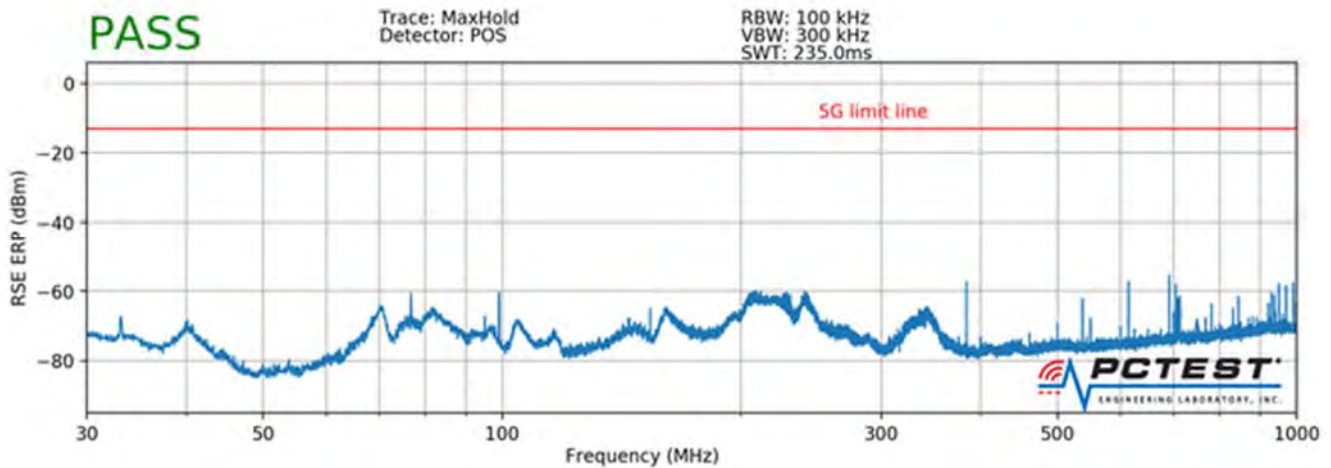


Plot 7-174. Radiated Spurious Plot 30 MHz - 1 GHz (1CC QPSK High Channel, Ant. Pol. V)

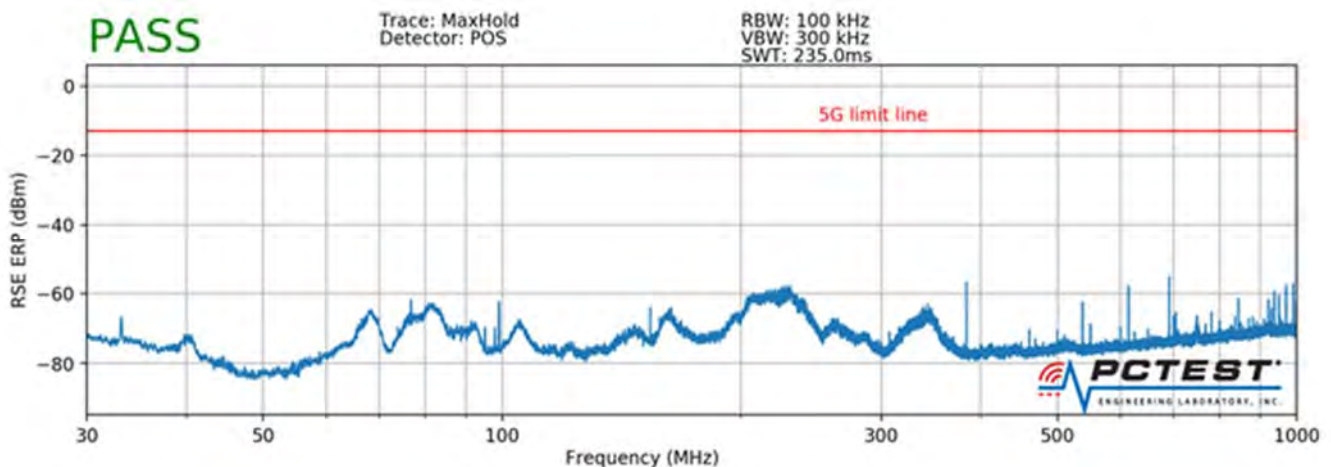
FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-175. Radiated Spurious Plot 30 MHz - 1 GHz (8CC QPSK Low Channel, Ant. Pol. H)

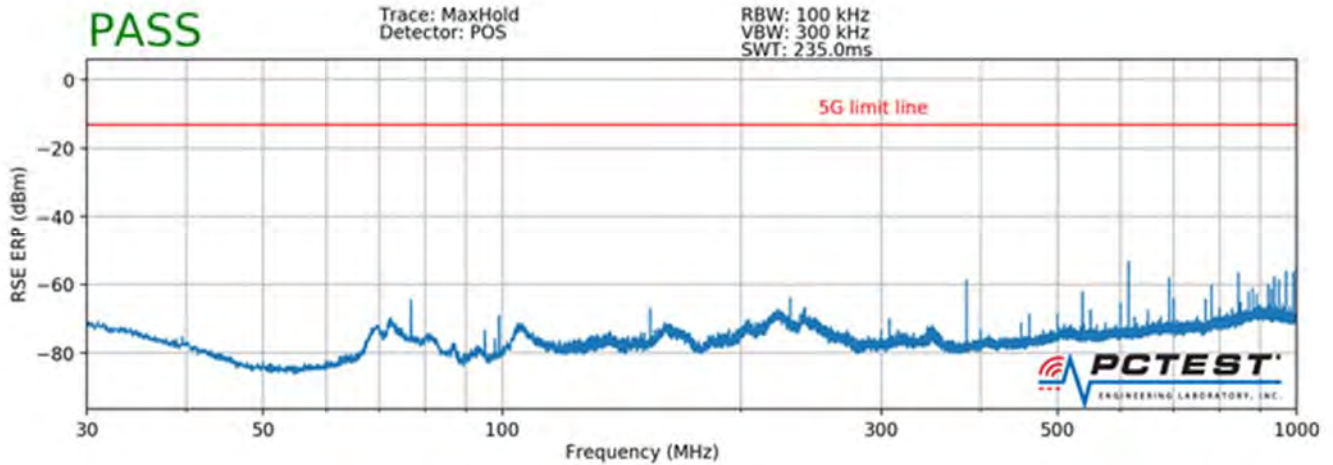


Plot 7-176. Radiated Spurious Plot 30 MHz - 1 GHz (8CC QPSK Low Channel, Ant. Pol. V)

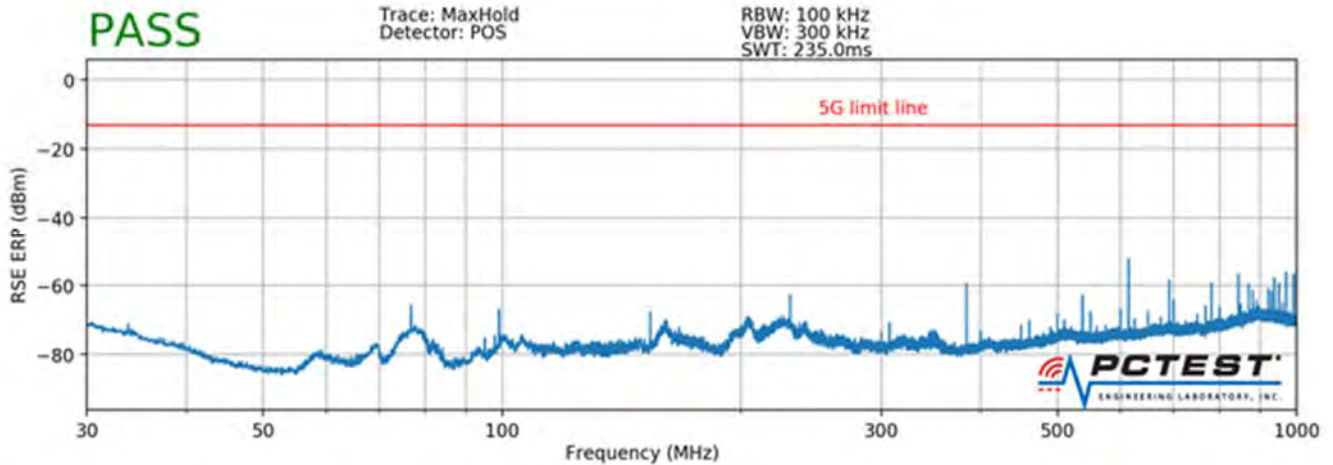


Plot 7-177. Radiated Spurious Plot 30 MHz - 1 GHz (8CC QPSK Mid Channel, Ant. Pol. H)

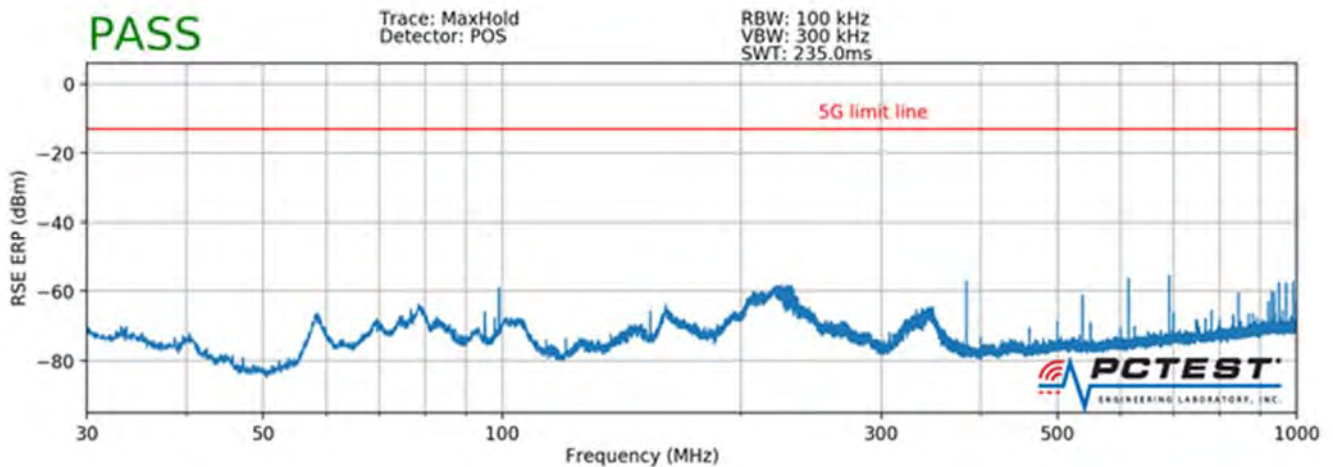
FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-178. Radiated Spurious Plot 30 MHz - 1 GHz (8CC QPSK Mid Channel, Ant. Pol. V)



Plot 7-179. Radiated Spurious Plot 30 MHz - 1 GHz (8CC QPSK High Channel, Ant. Pol. H)



Plot 7-180. Radiated Spurious Plot 30 MHz - 1 GHz (8CC QPSK High Channel, Ant. Pol. V)

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Frequency [MHz]	Detector/Trace	Channel	EUT Ant.	CC Active	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turn Table Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EUT Antenna Gain [dBi]	Measurement Distance [m]	Calculated Conducted power [dBm]	Limit [dBm]	Margin [dB]
76.79	RMS/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	H	206	69	-56.01	-22.64	28.35	28.15	3.00	-95.06	-13.00	-82.06
384.00	RMS/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	V	100	336	-55.09	-13.41	38.50	28.15	3.00	-84.91	-13.00	-71.91
614.39	RMS/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	H	124	287	-53.59	-8.79	44.62	28.15	3.00	-78.79	-13.00	-65.79
614.39	RMS/Avg	Mid	1+2+3+4	CC0-CC7	16QAM	H	135	303	-53.23	-8.79	44.98	28.15	3.00	-78.43	-13.00	-65.43
614.39	RMS/Avg	Mid	1+2+3+4	CC0-CC7	64QAM	H	130	303	-53.21	-8.79	45.00	28.15	3.00	-78.41	-13.00	-65.41
691.00	RMS/Avg	Mid	1+2+3+6	CC0-CC7	QPSK	V	101	1	-59.79	-8.00	39.21	28.15	3.00	-84.20	-13.00	-71.20
844.79	RMS/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	H	174	20	-60.45	-5.79	40.76	28.15	3.00	-82.65	-13.00	-69.65
970.00	RMS/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	H	175	117	-63.85	-4.29	38.86	28.15	3.00	-84.55	-13.00	-71.55

Table 7-17. Spurious Emissions (30MHz – 1GHz)

Conducted Spurious Emissions Sample Calculation

The radiated spurious level is converted to field strength in dBμV/m. Then the EUT antenna gain is subtracted for the conductive spurious level.

$$\begin{aligned}
 \text{Spurious Level [dBμV/m]} &= \text{Measured Value [dBm]} + \text{AFCL [dB/m]} + 107 \\
 &= -56.01 \text{ dBm} - 22.64 \text{ dB/m} + 107 \\
 &= 28.35 \text{ dBμV/m}
 \end{aligned}$$

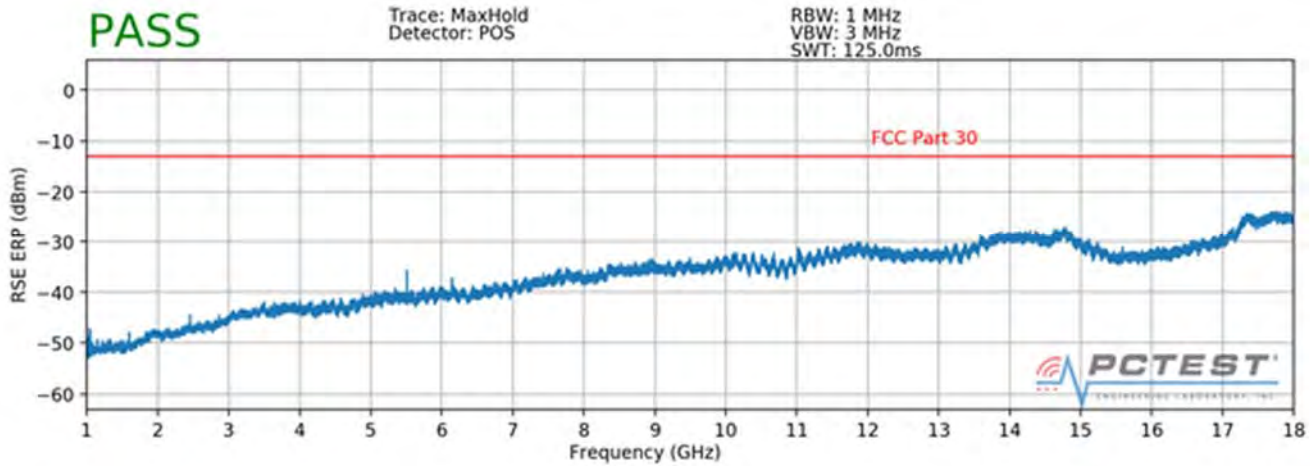
$$\begin{aligned}
 \text{Conducted level [dBm]} &= \text{Field Strength} + 20\text{Log}(D_m) - 104.8 - \text{Gain}_{\text{Ant}} \\
 &= 28.35 \text{ dBμV/m} + 20\text{Log}(3) - 104.8 - 28.15 \\
 &= -95.06 \text{ dBm}
 \end{aligned}$$

Minimum Far Field Distance Sample Calculation

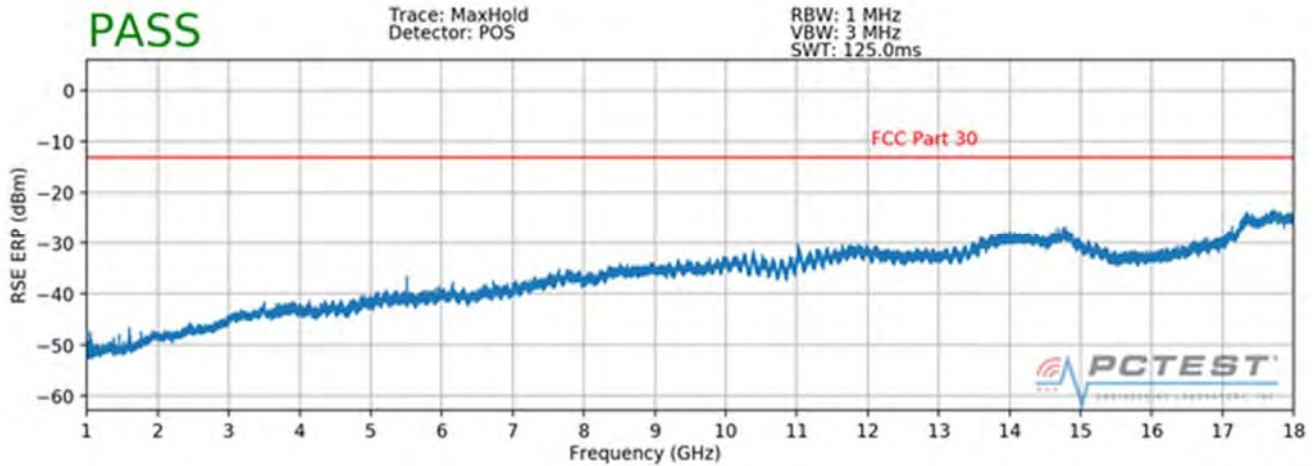
$$\begin{aligned}
 \text{Far Field [m]} &= 2 D^2 / \lambda \\
 &= 2 * (0.09\text{m})^2 / (300/1000) \\
 &= 0.05\text{m}
 \end{aligned}$$

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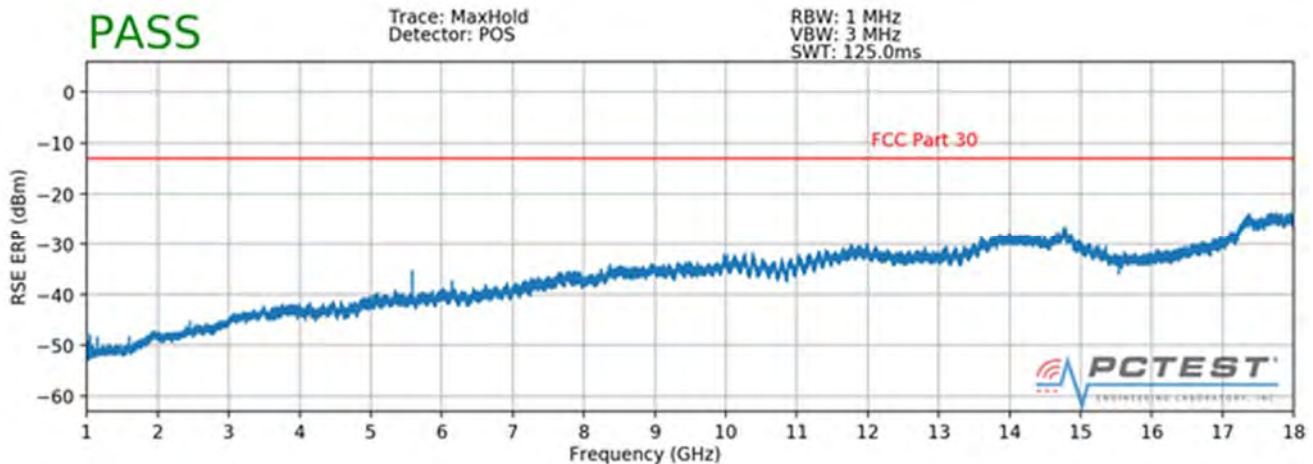
7.5.2 Radiated Spurious Emissions Plots (1 – 18GHz)



Plot 7-181. Radiated Spurious Plot 1-18 GHz (1CC QPSK Low Channel, Ant. Pol. H)

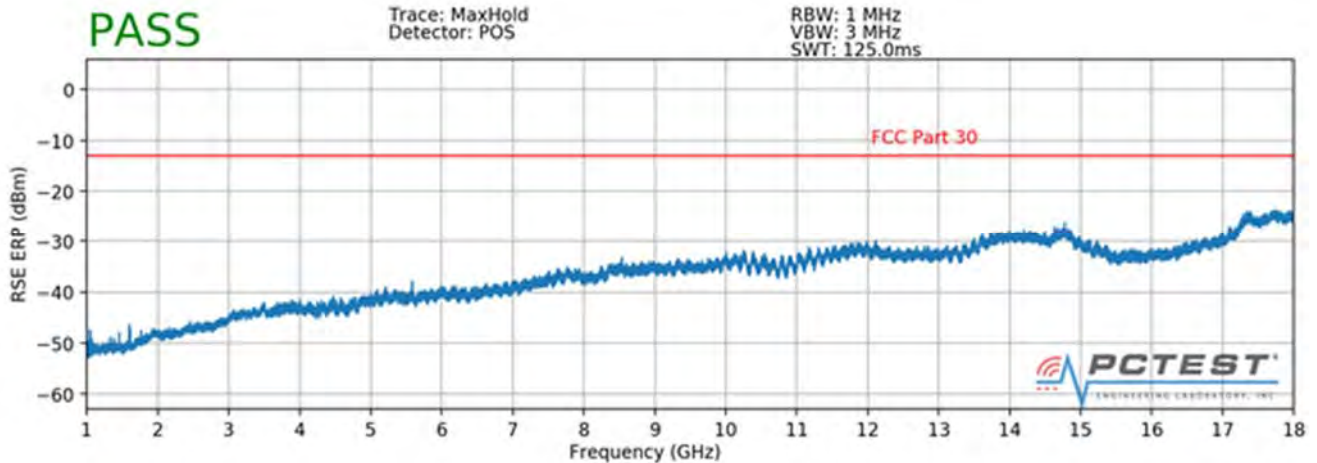


Plot 7-182. Radiated Spurious Plot 1-18 GHz (1CC QPSK Low Channel, Ant. Pol. V)

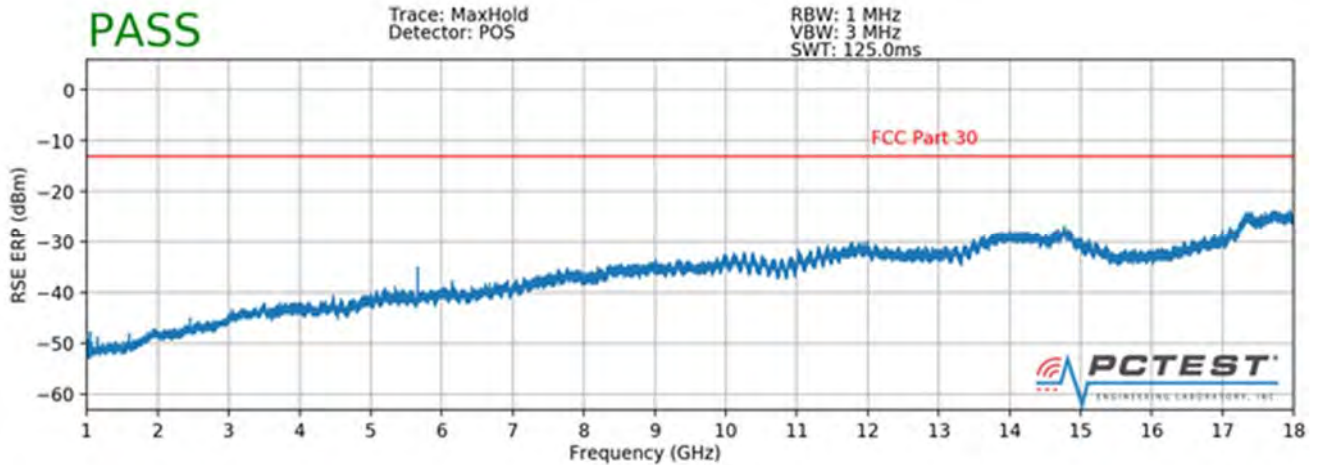


Plot 7-183. Radiated Spurious Plot 1-18 GHz (1CC QPSK Mid Channel, Ant. Pol. H)

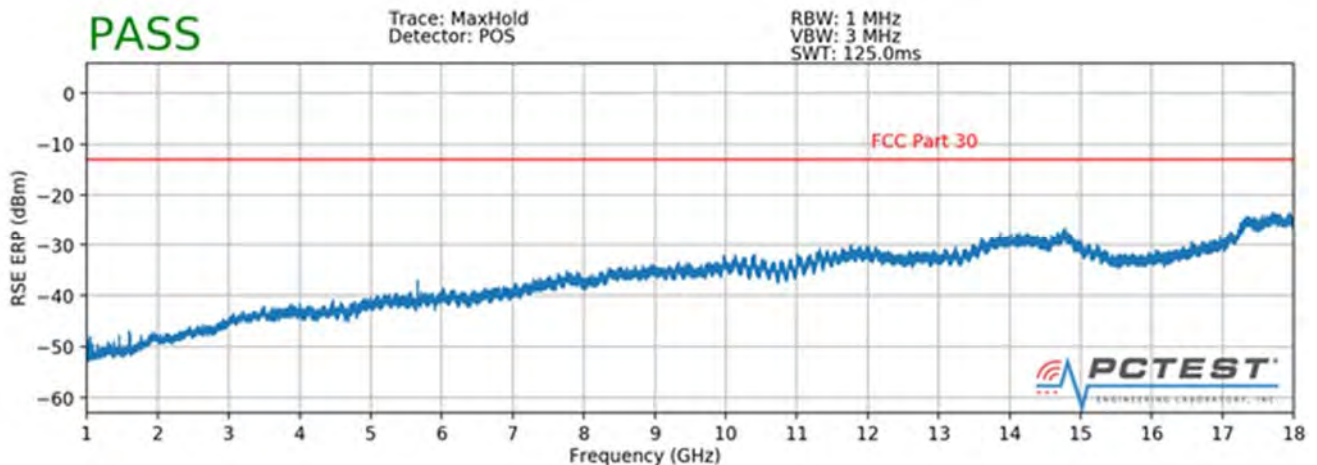
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Plot 7-184. Radiated Spurious Plot 1-18 GHz (1CC QPSK Mid Channel, Ant. Pol. V)

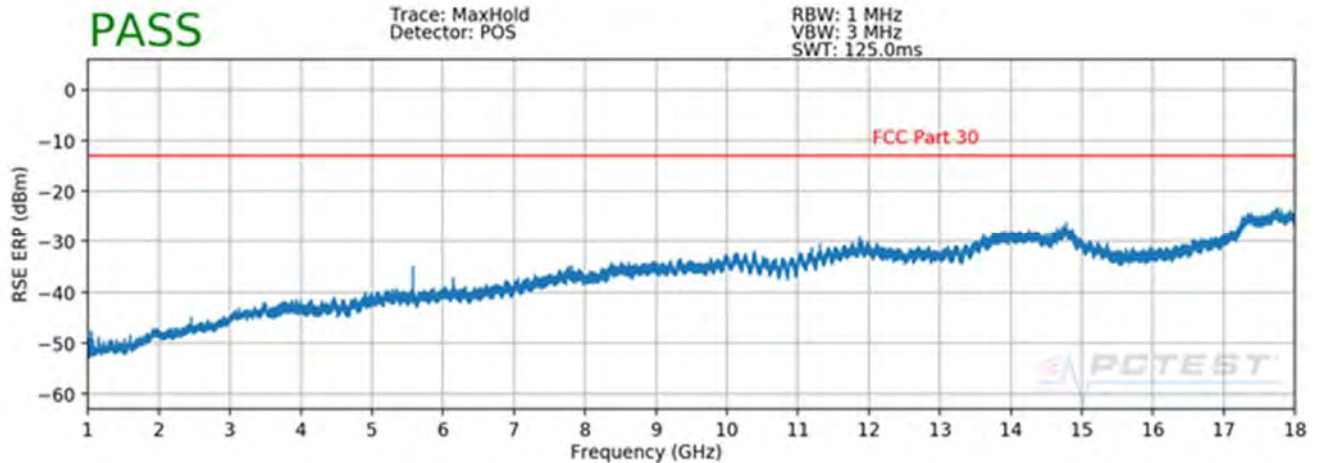


Plot 7-185. Radiated Spurious Plot 1-18 GHz (1CC QPSK High Channel, Ant. Pol. H)

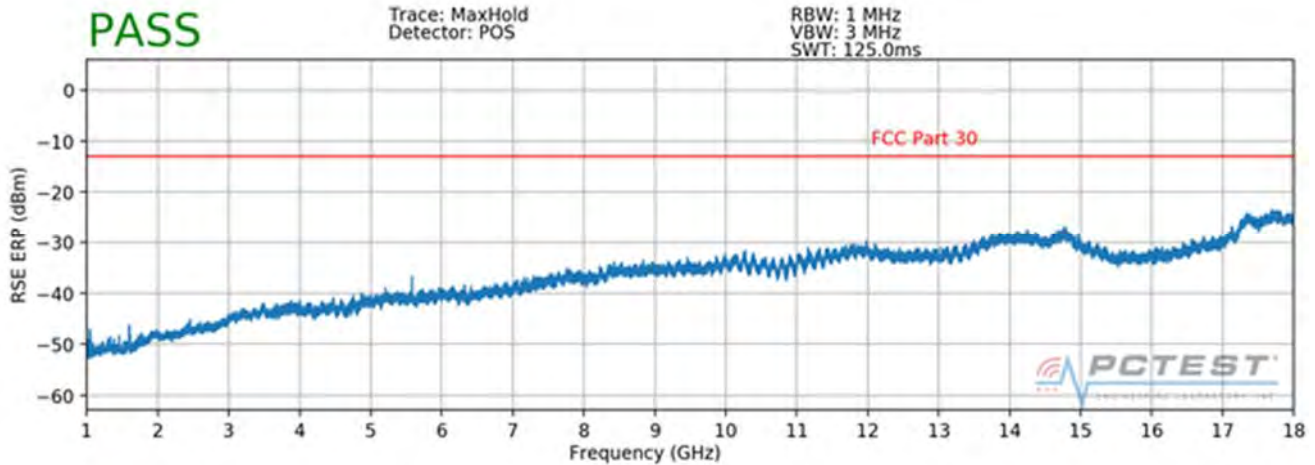


Plot 7-186. Radiated Spurious Plot 1-18 GHz (1CC QPSK High Channel, Ant. Pol. V)

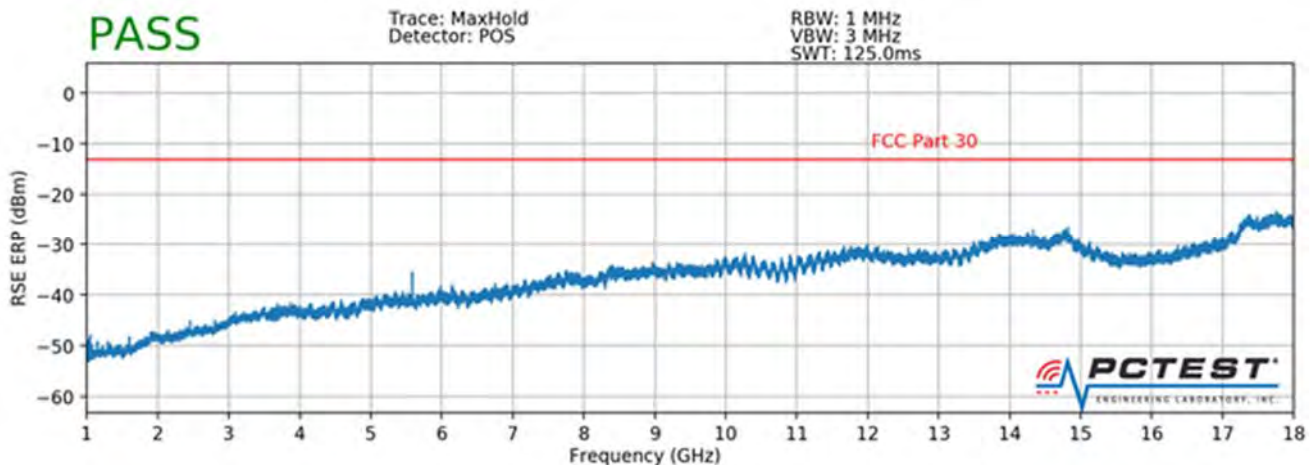
FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-187. Radiated Spurious Plot 1-18 GHz (8CC QPSK Low Channel, Ant. Pol. H)

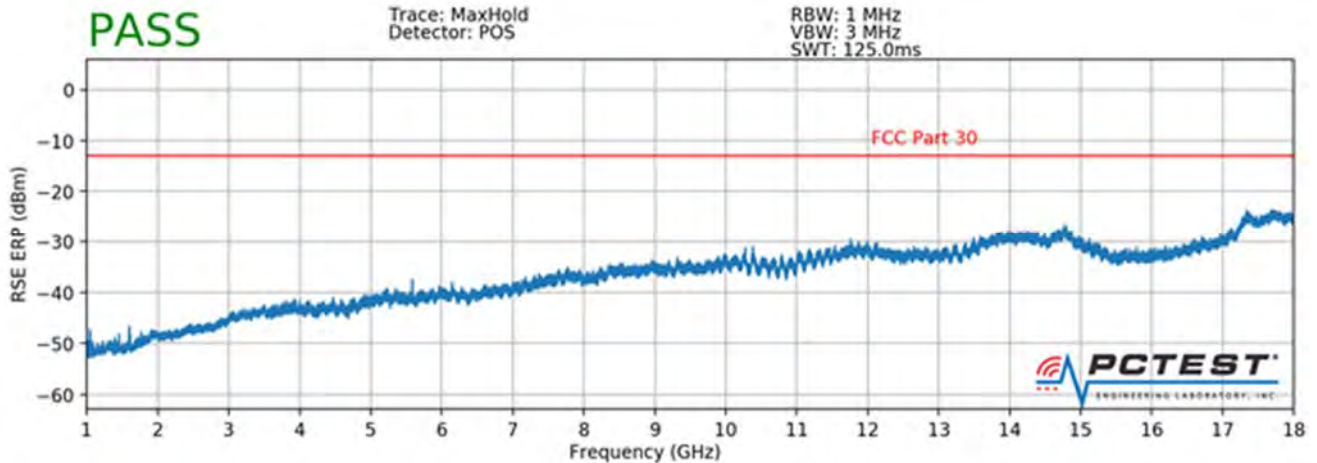


Plot 7-188. Radiated Spurious Plot 1-18 GHz (8CC QPSK Low Channel, Ant. Pol. V)

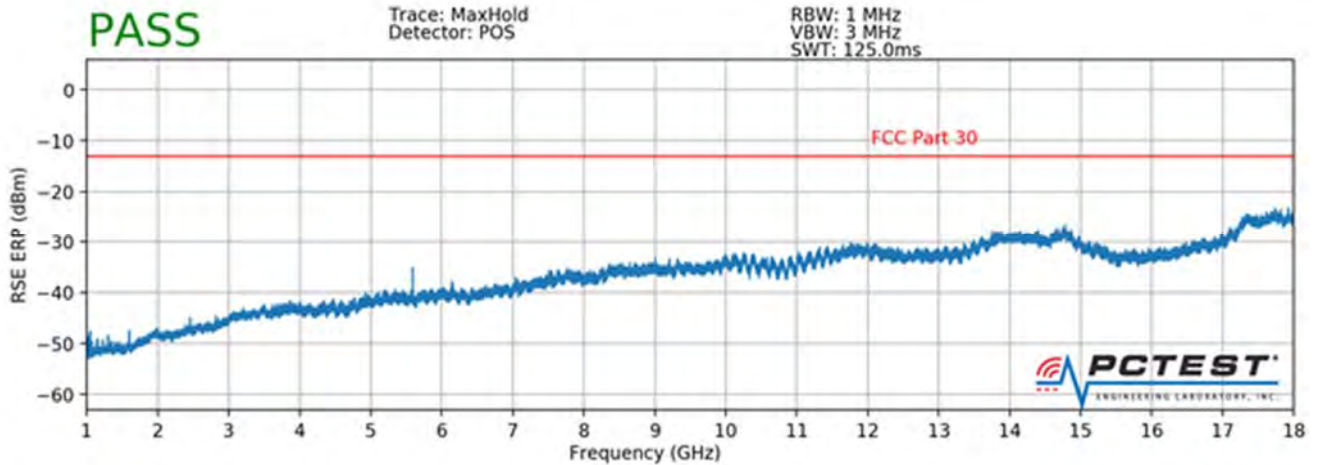


Plot 7-189. Radiated Spurious Plot 1-18 GHz (8CC QPSK Mid Channel, Ant. Pol. H)

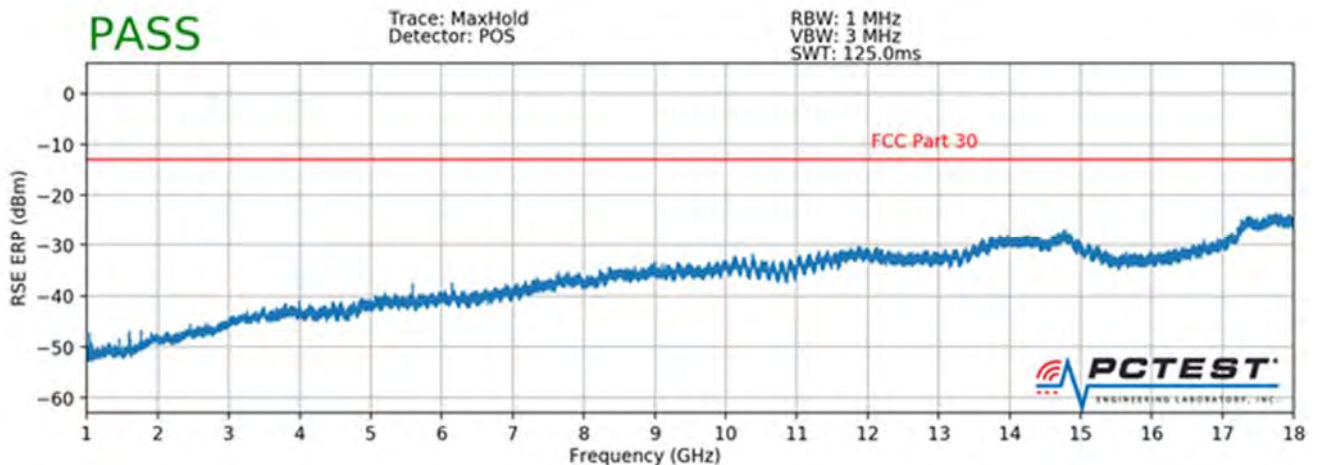
FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-190. Radiated Spurious Plot 1-18 GHz (8CC QPSK Mid Channel, Ant. Pol. V)



Plot 7-191. Radiated Spurious Plot 1-18 GHz (8CC QPSK High Channel, Ant. Pol. H)



Plot 7-192. Radiated Spurious Plot 1-18 GHz (8CC QPSK High Channel, Ant. Pol. V)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 126 of 222

Frequency [MHz]	Detector/Trace	Channel	EUT Ant.	CC Active	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turn Table Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EUT Antenna Gain [dBi]	Measurement Distance [m]	Calculated Conducted power [dBm]	Limit [dBm]	Margin [dB]
5585.00	Avg/Avg	Mid	1+2+3+4	CC0	QPSK	H	150	66	-53.69	5.21	58.52	28.15	3.00	-64.89	-13.00	-51.89
5585.00	Avg/Avg	Mid	1+2+3+4	CC0	QPSK	V	139	2	-55.19	5.34	57.15	28.15	3.00	-66.26	-13.00	-53.26
5585.00	Avg/Avg	Mid	1+2+3+4	CC0	16QAM	H	148	67	-53.90	5.21	58.31	28.15	3.00	-65.10	-13.00	-52.10
5585.00	Avg/Avg	Mid	1+2+3+4	CC0	64QAM	H	146	68	-54.01	5.21	58.20	28.15	3.00	-65.21	-13.00	-52.21
5585.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	H	148	104	-55.40	5.21	56.81	28.15	3.00	-66.60	-13.00	-53.60
5585.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	16QAM	H	135	103	-55.43	5.21	56.78	28.15	3.00	-66.63	-13.00	-53.63
5585.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	64QAM	H	137	101	-55.63	5.21	56.58	28.15	3.00	-66.83	-13.00	-53.83
5510.00	Avg/Avg	Low	1+2+3+4	CC0	QPSK	H	135	69	-55.51	5.21	56.70	28.15	3.00	-66.71	-13.00	-53.71
5660.00	Avg/Avg	High	1+2+3+4	CC0	QPSK	H	159	323	-53.67	6.12	59.45	28.15	3.00	-63.96	-13.00	-50.96
11170.00	Avg/Avg	Mid	1+2+3+4	CC0	QPSK	H	122	37	-70.19	14.87	51.68	28.15	3.00	-71.73	-13.00	-58.73
11170.00	Avg/Avg	Mid	1+2+3+4	CC0	QPSK	V	151	19	-64.28	14.96	57.68	28.15	3.00	-65.73	-13.00	-52.73
11170.00	Avg/Avg	Mid	1+2+3+4	CC0	16QAM	V	150	20	-65.13	14.96	56.83	28.15	3.00	-66.58	-13.00	-53.58
11170.00	Avg/Avg	Mid	1+2+3+4	CC0	64QAM	V	152	23	-65.21	14.96	56.75	28.15	3.00	-66.66	-13.00	-53.66
11170.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	V	148	20	-65.52	14.96	56.44	28.15	3.00	-66.97	-13.00	-53.97
11170.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	16QAM	V	153	19	-65.21	14.96	56.75	28.15	3.00	-66.66	-13.00	-53.66
11170.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	64QAM	V	155	19	-65.20	14.96	56.76	28.15	3.00	-66.65	-13.00	-53.65
11020.00	Avg/Avg	Low	1+2+3+4	CC0	QPSK	V	149	19	-64.37	14.20	56.83	28.15	3.00	-66.58	-13.00	-53.58
11320.00	Avg/Avg	High	1+2+3+4	CC0	QPSK	V	164	20	-64.67	15.31	57.64	28.15	3.00	-65.77	-13.00	-52.77

Table 7-18. Spurious Emissions (1 – 18GHz)

Note:

The investigated emissions of 5.10-5.66 GHz are that of a local oscillator of the EUT. The harmonics of the local oscillator are investigated as well and provided in the table.

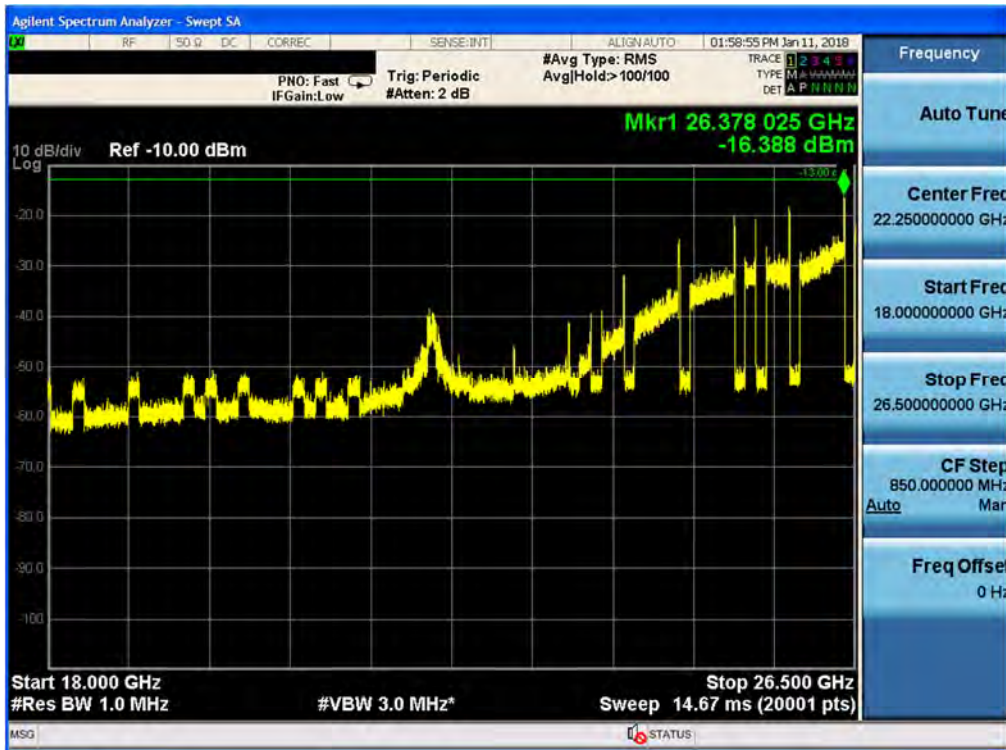
Minimum Far Field Distance Sample Calculation

$$\text{Far Field [m]} = 2 * (0.09\text{m})^2 / (300/18000)$$

$$= 0.97\text{m}$$

FCC ID: A3LSFG-AA100DC		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.5.3 Radiated Spurious Emissions Plots (18 – 26.5GHz)

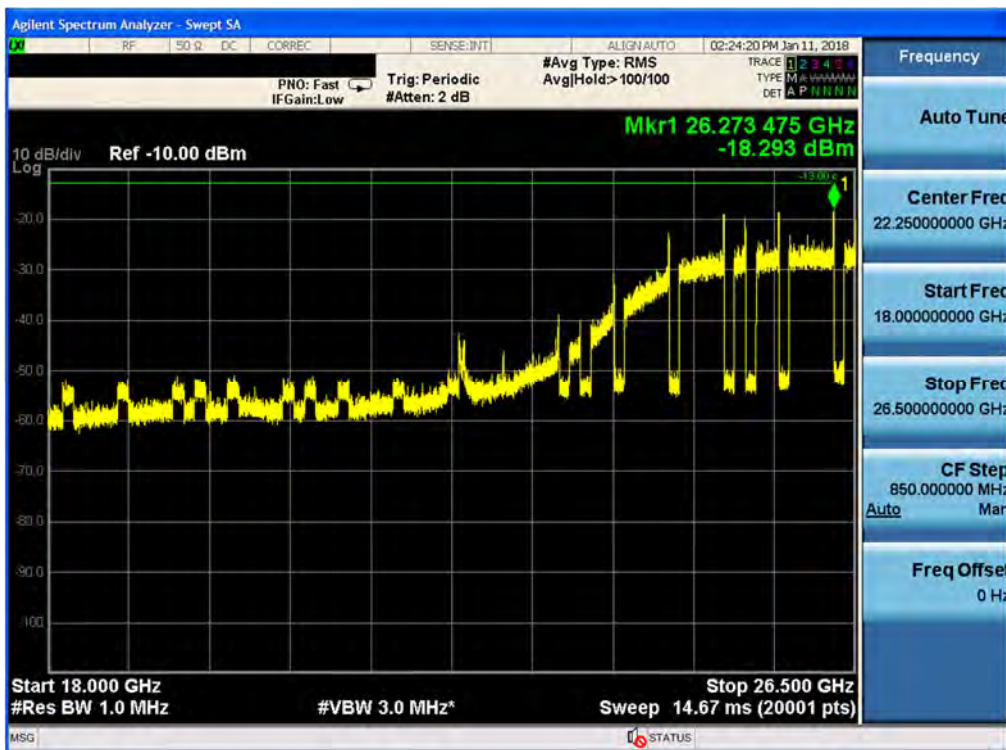


Plot 7-193. Radiated Spurious Plot 18-26.5 GHz (1CC QPSK Low Channel, Ant. Angle 135)



Plot 7-194. Radiated Spurious Plot 18-26.5 GHz (1CC QPSK Low Channel, Ant. Angle 45)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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FCC ID: A3LSFG-AA100DC	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
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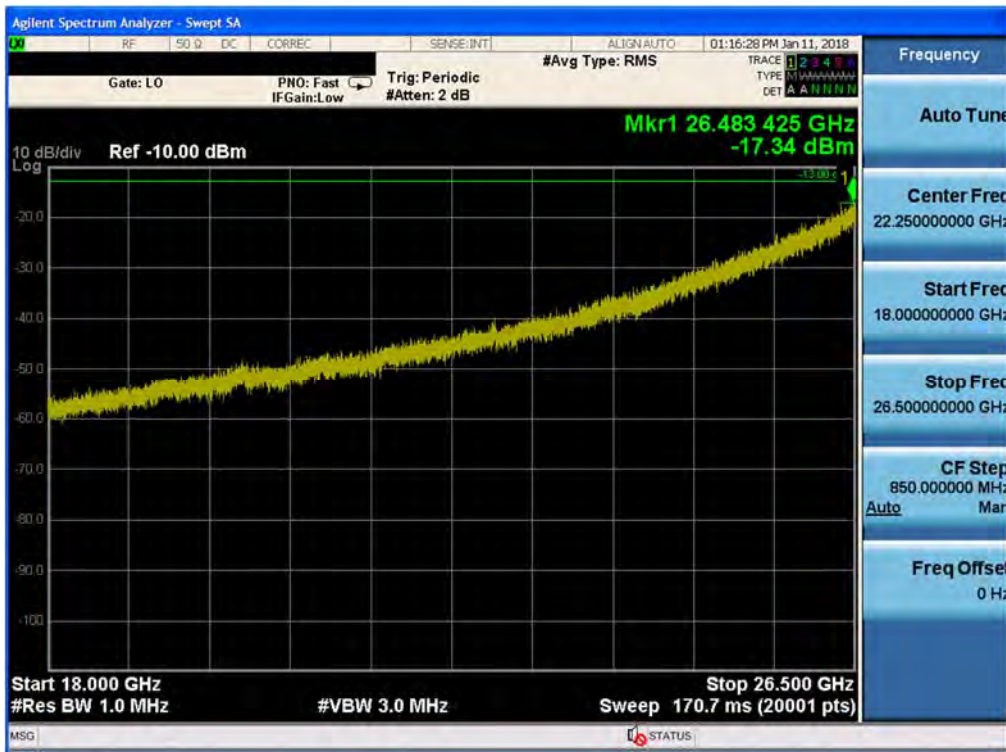


Plot 7-197. Radiated Spurious Plot 18-26.5 GHz (1CC QPSK High Channel, Ant. Angle 135)



Plot 7-198. Radiated Spurious Plot 18-26.5 GHz (1CC QPSK High Channel, Ant. Angle 45)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 130 of 222



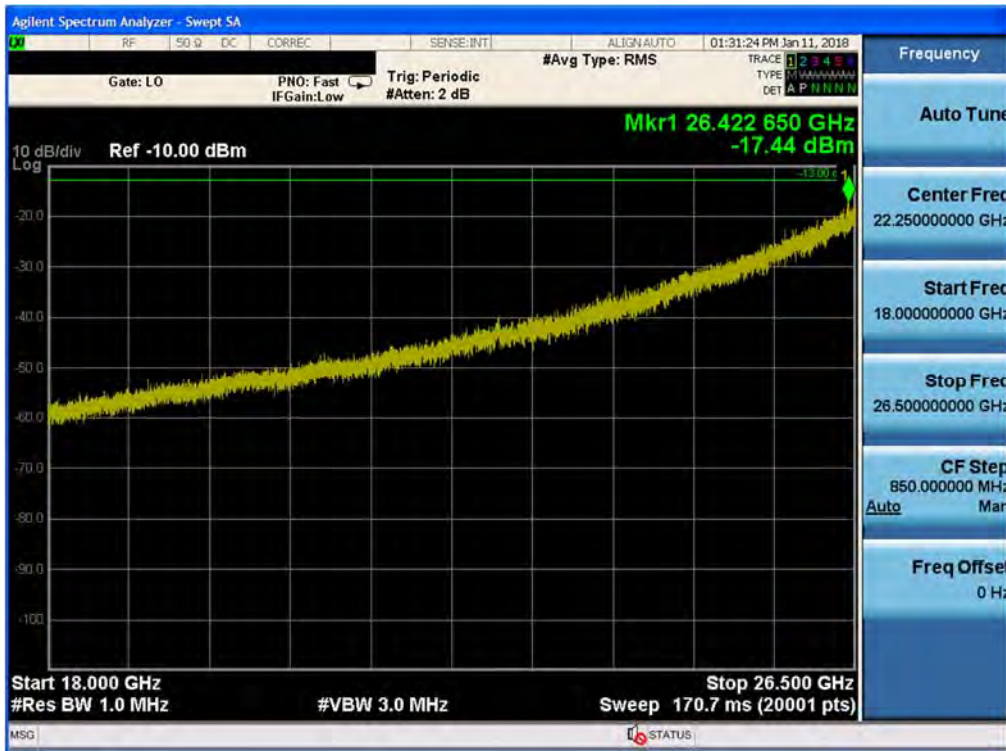
Plot 7-199. Radiated Spurious Plot 18-26.5 GHz (8CC QPSK Low Channel, Ant. Angle 135)



Plot 7-200. Radiated Spurious Plot 18-26.5 GHz (8CC QPSK Low Channel, Ant. Angle 45)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-203. Radiated Spurious Plot 18-26.5 GHz (8CC QPSK High Channel, Ant. Angle 135)



Plot 7-204. Radiated Spurious Plot 18-26.5 GHz (8CC QPSK High Channel, Ant. Angle 45)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 133 of 222

Frequency [MHz]	Detector/Trace	Channel	EUT Ant.	CC Active	Mod.	Ant. Pol. [degree]	Antenna Height [cm]	Measured EIRP [dBm]	EUT Antenna Gain [dBi]	Measurement Distance [m]	Calculated Conducted power [dBm]	Limit [dBm]	Margin [dB]
26378.00	Avg/Avg	Low	1+2+3+4	CC0	QPSK	135.00	154	-21.65	28.15	2.16	-49.80	-13.00	-36.80
25774.00	Avg/Avg	Mid	1+2+3+4	CC4	QPSK	135.00	154	-25.73	28.15	2.16	-53.88	-13.00	-40.88
26323.00	Avg/Avg	High	1+2+3+4	CC7	QPSK	135.00	154	-26.28	28.15	2.16	-54.43	-13.00	-41.43
26483.00	Avg/Avg	Low	1+2+3+4	CC0-CC7	QPSK	135.00	154	-18.22	28.15	2.16	-46.37	-13.00	-33.37
26423.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	135.00	154	-19.08	28.15	2.16	-47.23	-13.00	-34.23
26422.00	Avg/Avg	High	1+2+3+4	CC0-CC7	QPSK	135.00	154	-19.01	28.15	2.16	-47.16	-13.00	-34.16

Table 7-19. Spurious Emissions (18 – 26.5GHz)

Minimum Far Field Distance Sample Calculation

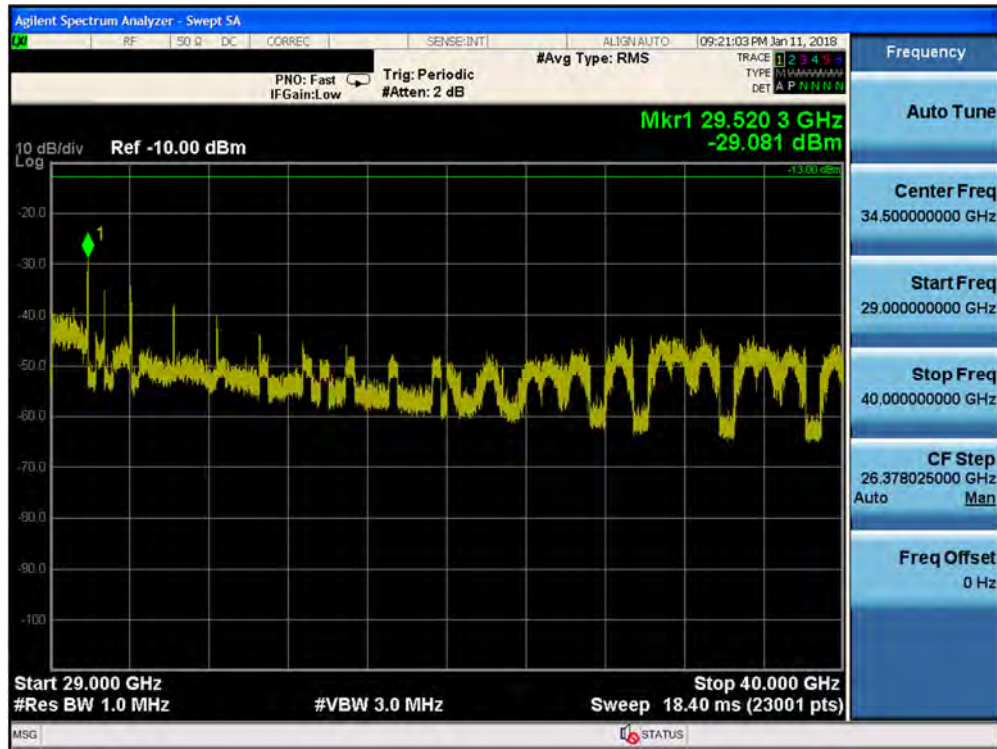
$$\text{Far Field [m]} = 2 * (0.09\text{m})^2 / (300/26500)$$

$$= 1.43\text{m}$$

FCC ID: A3LSFG-AA100DC		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 134 of 222

7.5.4 Radiated Spurious Emissions Plots (26.5 – 40GHz)

Note: The spurious emissions scans started at 29GHz as shown in the plots of this section so as to only focus on the spurious emissions and not the fundamental emission.

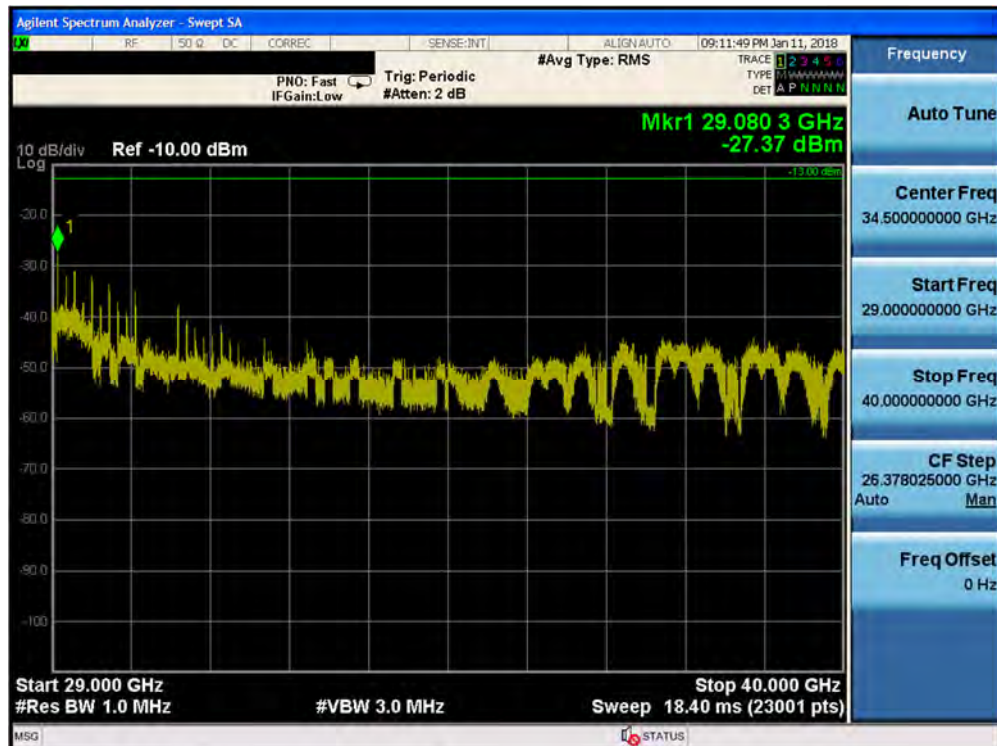


Plot 7-205. Radiated Spurious Plot 26.5-40 GHz (1CC QPSK Low Channel, Ant. Angle 135)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 135 of 222

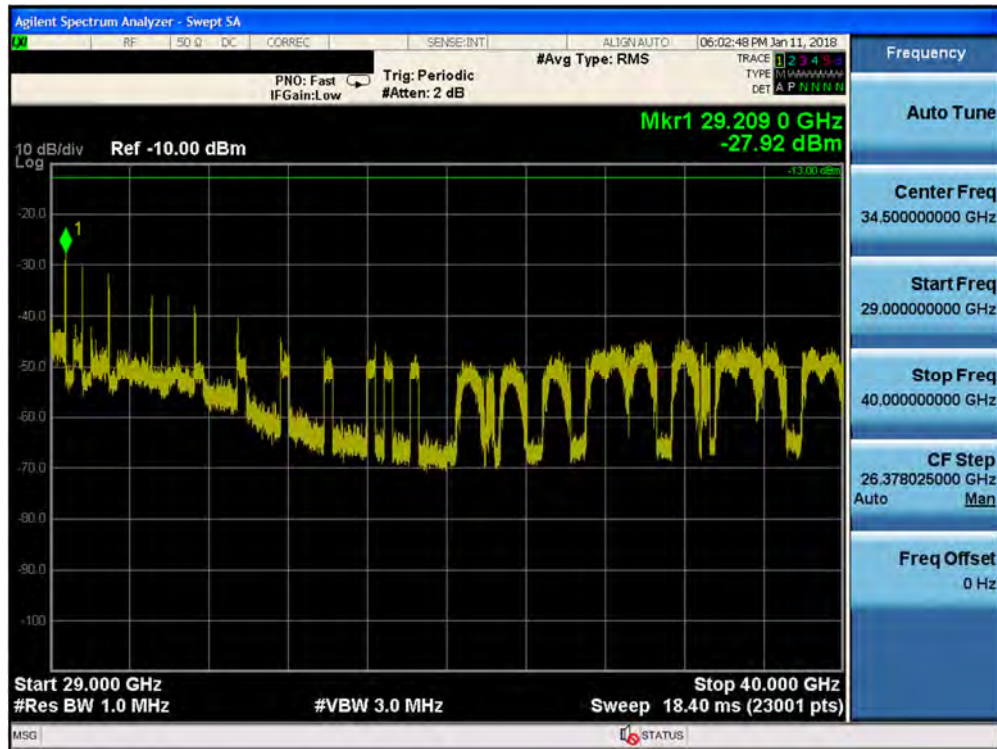


Plot 7-206. Radiated Spurious Plot 26.5-40 GHz (1CC QPSK Low Channel, Ant. Angle 45)

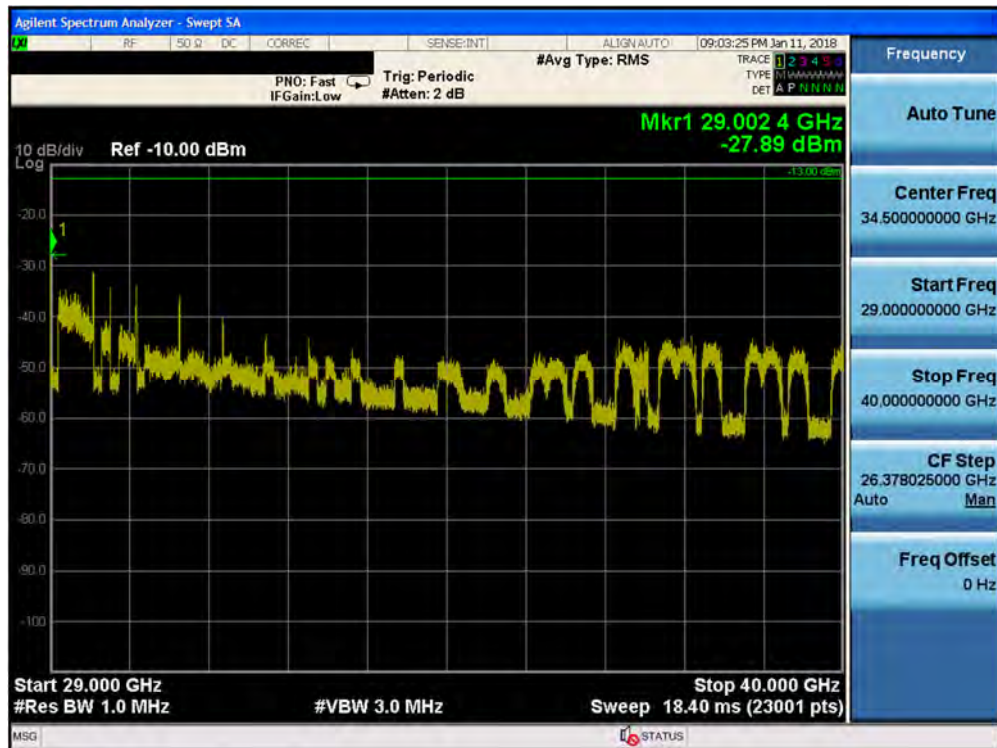


Plot 7-207. Radiated Spurious Plot 26.5-40 GHz (1CC QPSK Mid Channel, Ant. Angle 135)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 136 of 222



Plot 7-208. Radiated Spurious Plot 26.5-40 GHz (1CC QPSK Mid Channel, Ant. Angle 45)

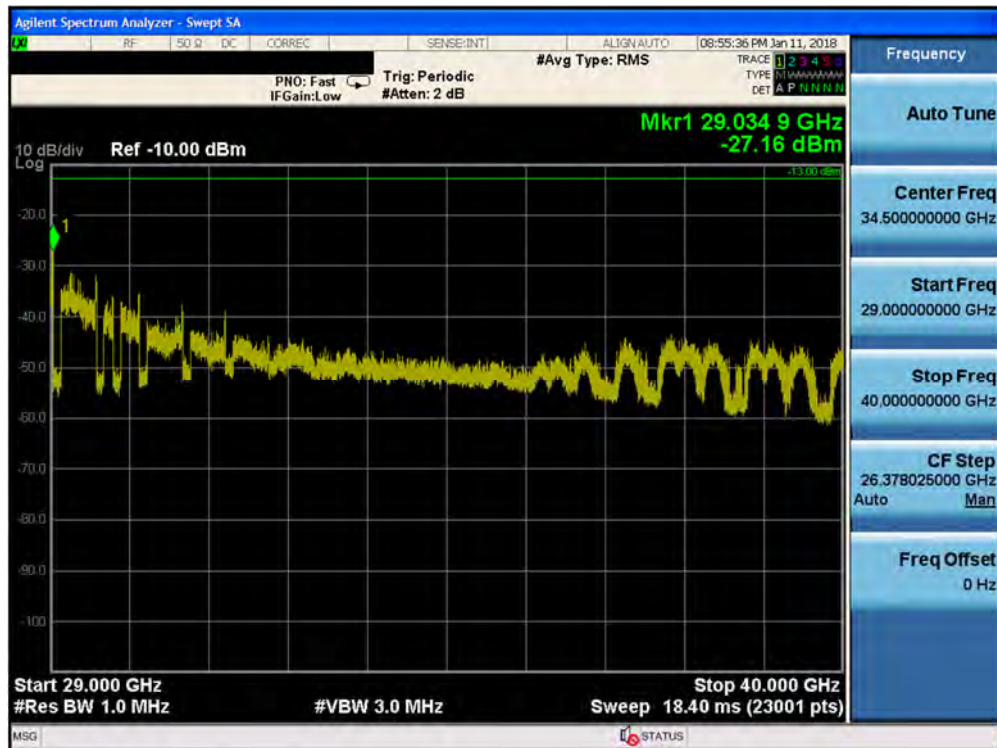


Plot 7-209. Radiated Spurious Plot 26.5-40 GHz (1CC QPSK High Channel, Ant. Angle 135)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 137 of 222

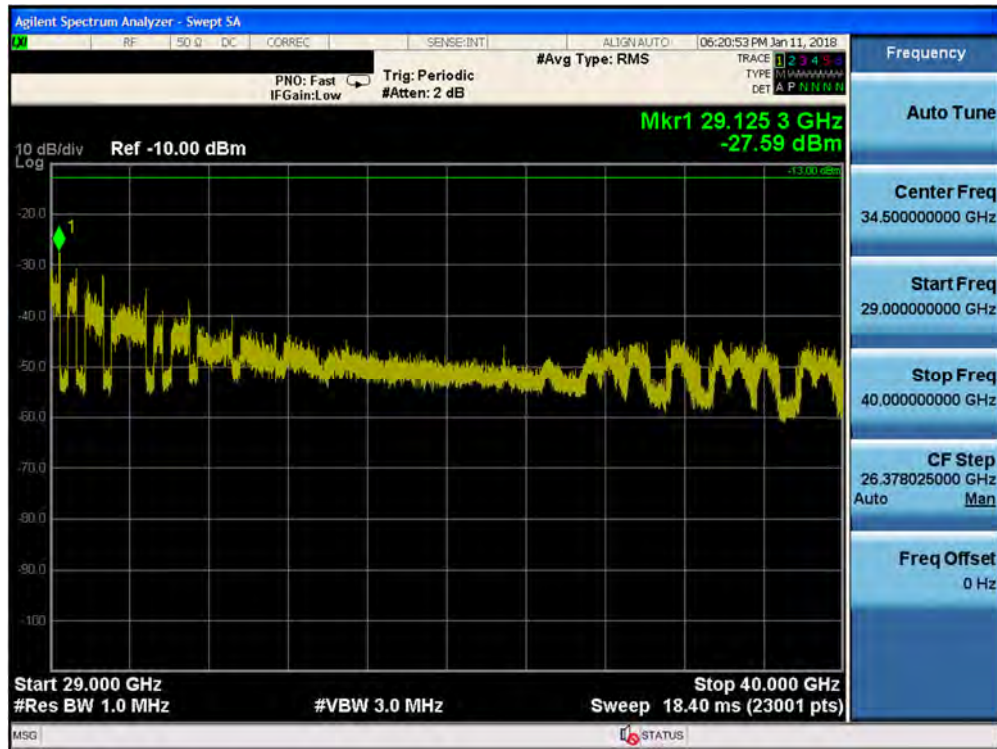


Plot 7-210. Radiated Spurious Plot 26.5-40 GHz (1CC QPSK High Channel, Ant. Angle 45)

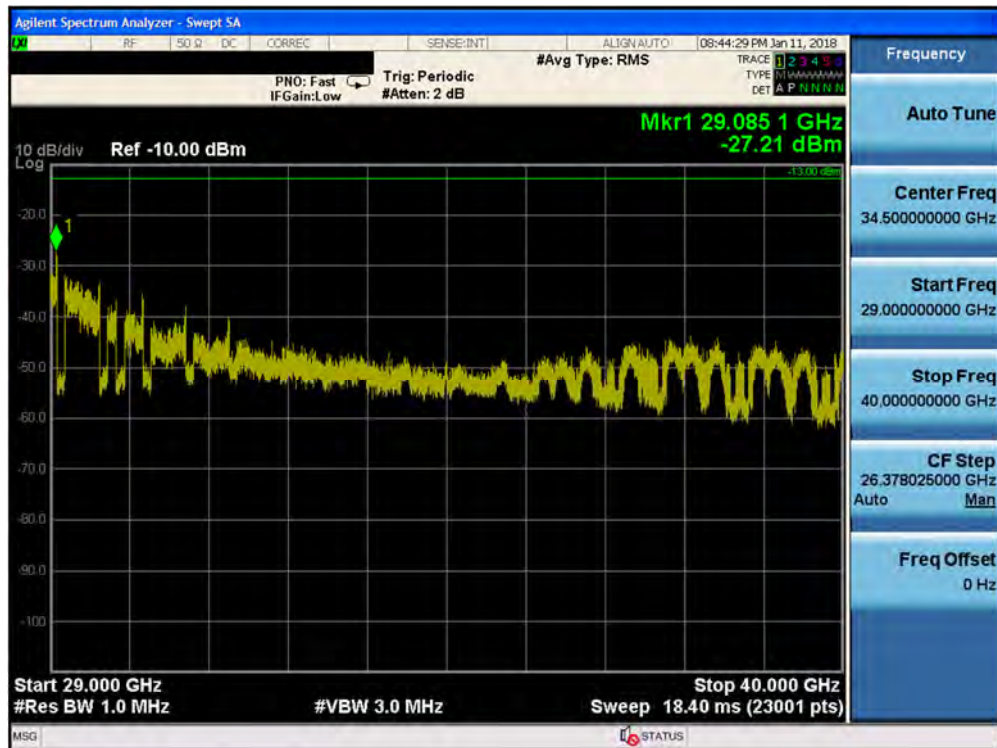


Plot 7-211. Radiated Spurious Plot 26.5-40 GHz (8CC QPSK Low Channel, Ant. Angle 135)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 138 of 222

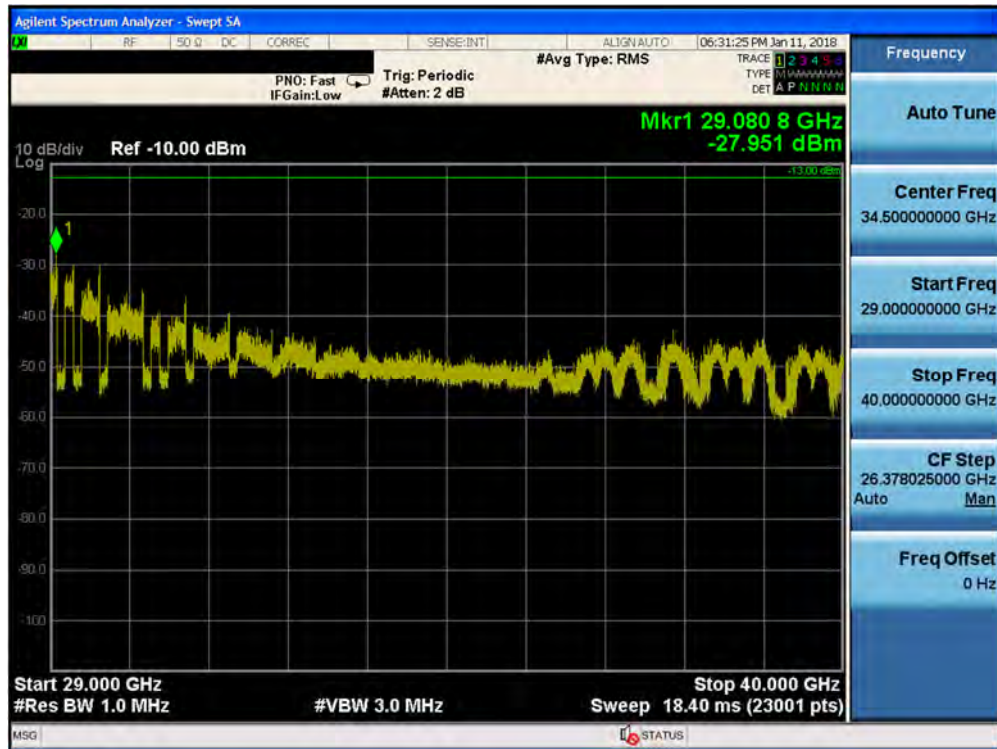


Plot 7-212. Radiated Spurious Plot 26.5-40 GHz (8CC QPSK Low Channel, Ant. Angle 45)

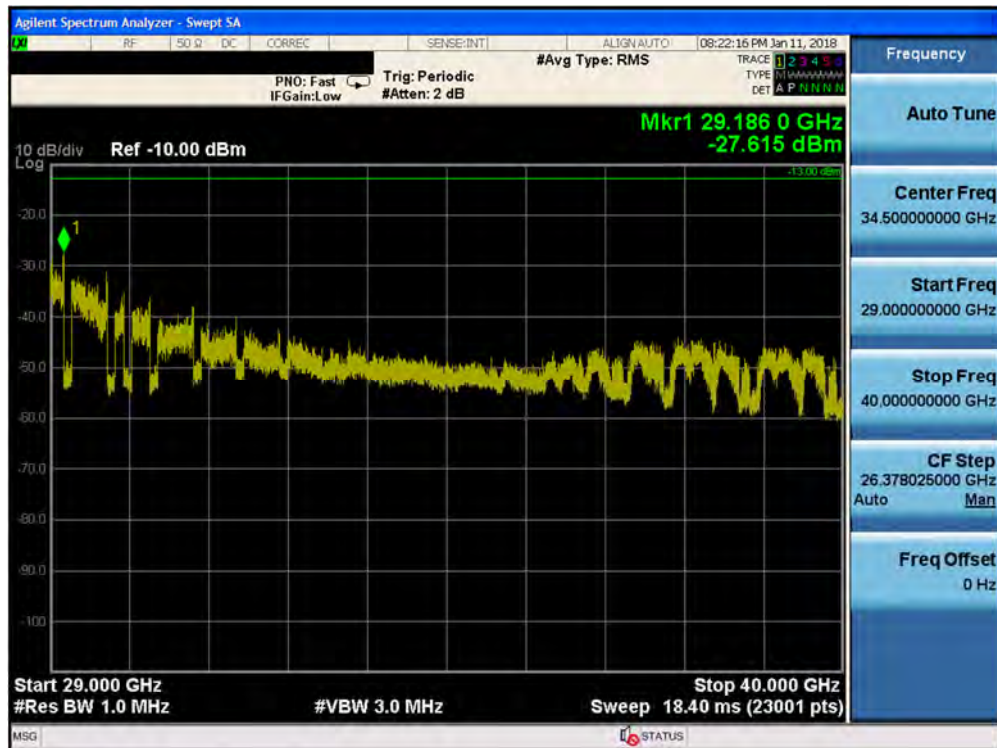


Plot 7-213. Radiated Spurious Plot 26.5-40 GHz (8CC QPSK Mid Channel, Ant. Angle 135)

FCC ID: A3LSFG-AA100DC	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit	Page 139 of 222

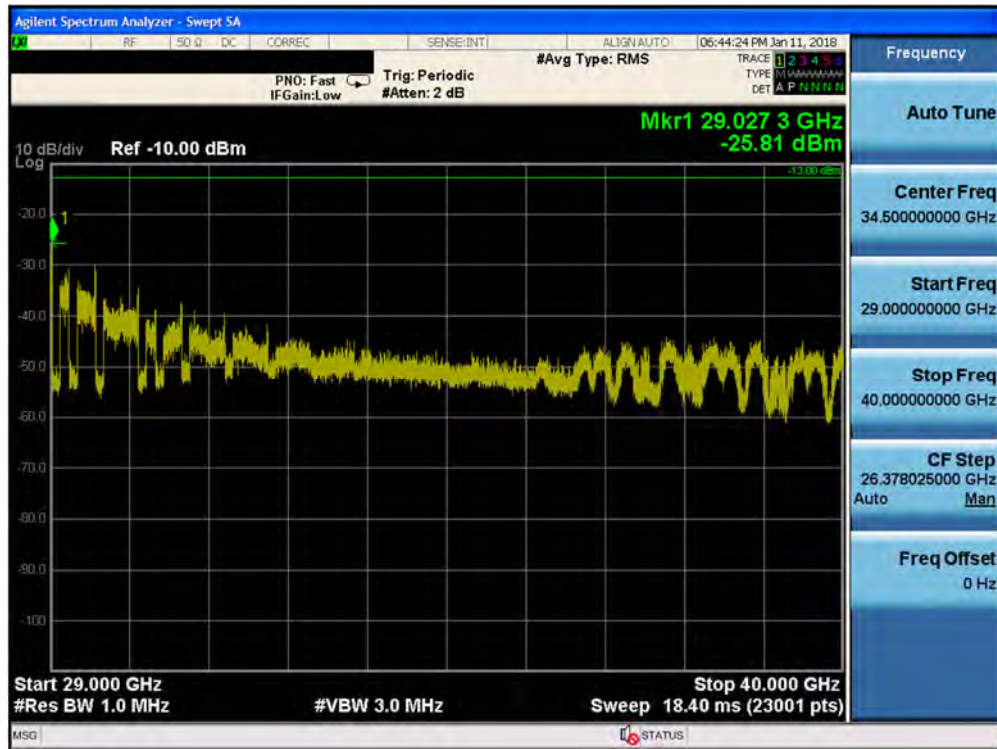


Plot 7-214. Radiated Spurious Plot 26.5-40 GHz (8CC QPSK Mid Channel, Ant. Angle 45)



Plot 7-215. Radiated Spurious Plot 26.5-40 GHz (8CC QPSK High Channel, Ant. Angle 135)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 140 of 222



Plot 7-216. Radiated Spurious Plot 26.5-40 GHz (8CC QPSK High Channel, Ant. Angle 45)

Frequency [MHz]	Detector/Trace	Channel	EUT Ant.	CC Active	Mod.	Ant. Pol. [degree]	Antenna Height [cm]	Measured EIRP [dBm]	EUT Antenna Gain [dBi]	Measurement Distance [m]	Calculated Conducted power [dBm]	Limit [dBm]	Margin [dB]
29520.00	Avg/Avg	Low	1+2+3+4	CC0	QPSK	135.00	154	-37.20	28.15	2.16	-65.35	-13.00	-52.35
29080.00	Avg/Avg	Mid	1+2+3+4	CC4	QPSK	135.00	154	-34.38	28.15	2.16	-62.53	-13.00	-49.53
29002.00	Avg/Avg	High	1+2+3+4	CC7	QPSK	135.00	121	-33.67	28.15	2.16	-61.82	-13.00	-48.82
29034.00	Avg/Avg	Low	1+2+3+4	CC0-CC7	QPSK	135.00	121	-33.33	28.15	2.16	-61.48	-13.00	-48.48
29085.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	135.00	121	-33.59	28.15	2.16	-61.74	-13.00	-48.74
29186.00	Avg/Avg	High	1+2+3+4	CC0-CC7	QPSK	135.00	121	-35.87	28.15	2.16	-64.02	-13.00	-51.02

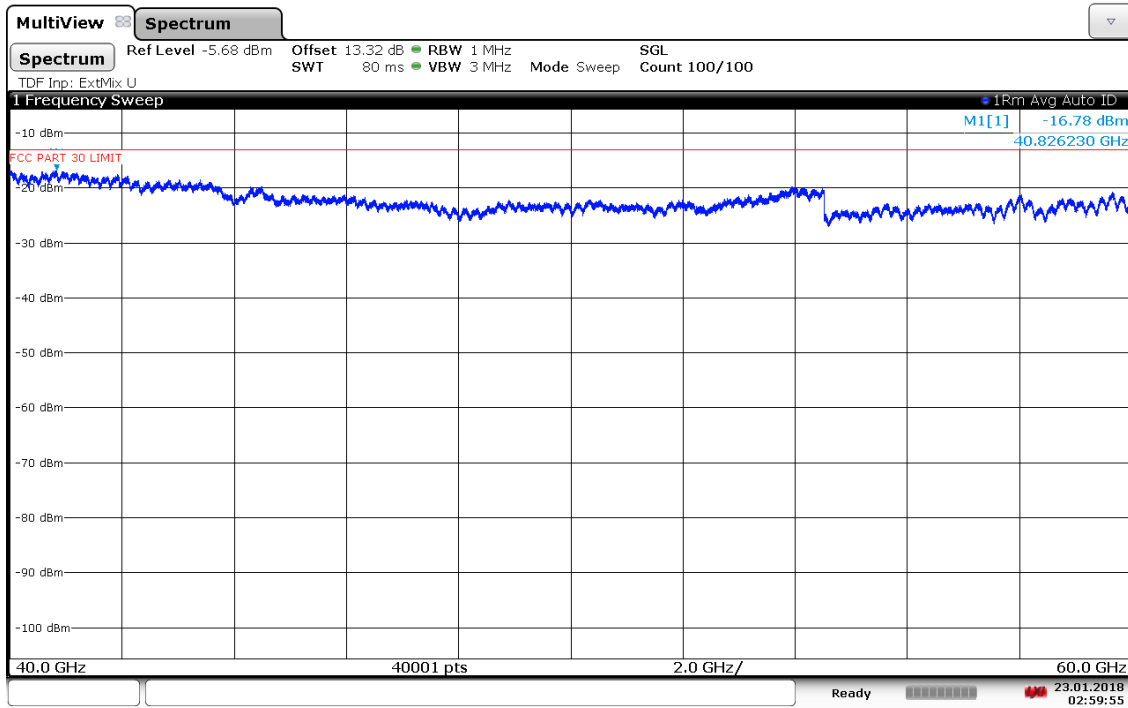
Table 7-20. Spurious Emissions (26.5 – 40GHz)

Minimum Far Field Distance Sample Calculation

$$\begin{aligned}\text{Far Field [m]} &= 2 * (0.09\text{m})^2 / (300/40000) \\ &= 2.16\text{m}\end{aligned}$$

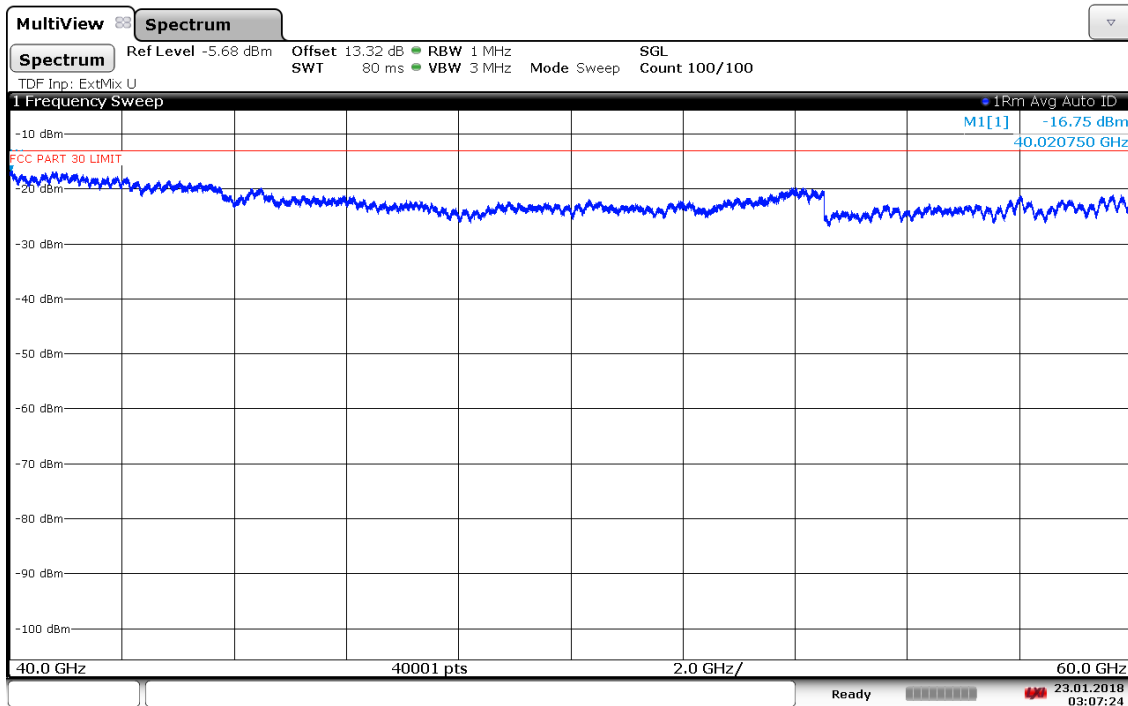
FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 141 of 222

7.5.5 Radiated Spurious Emissions Plots (40 – 60GHz)



02:59:55 23.01.2018

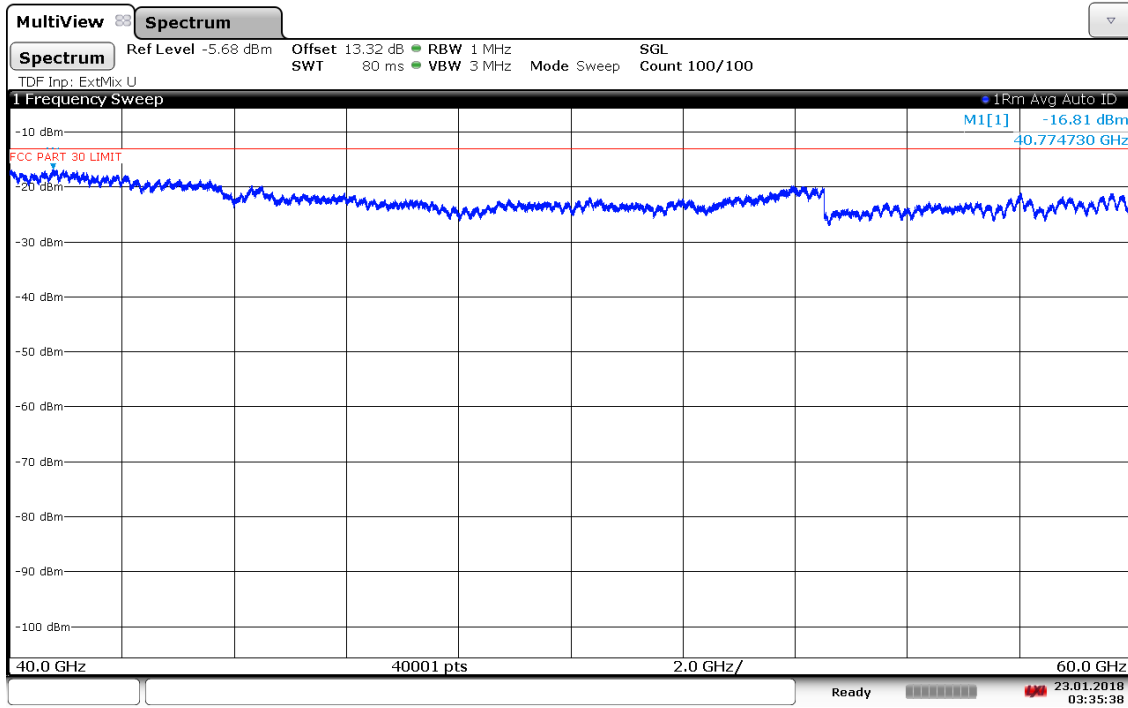
Plot 7-217. Radiated Spurious Plot 40-60 GHz (1CC QPSK Low Channel)



03:07:24 23.01.2018

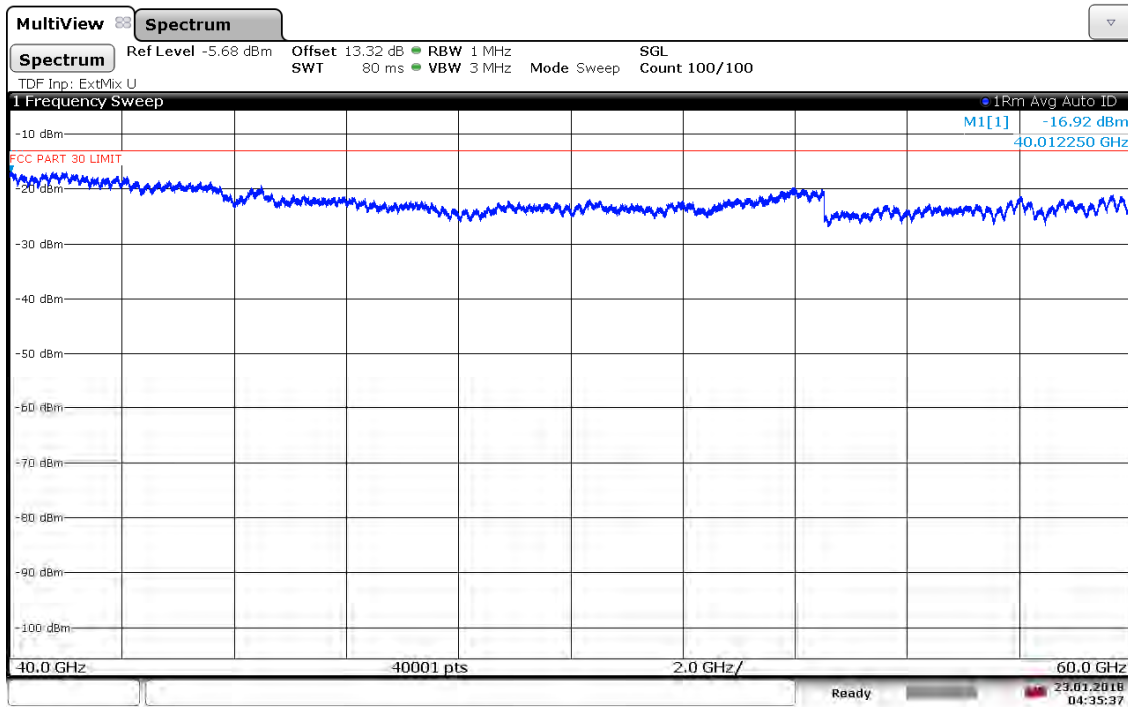
Plot 7-218. Radiated Spurious Plot 40-60 GHz (1CC QPSK Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 142 of 222



03:35:38 23.01.2018

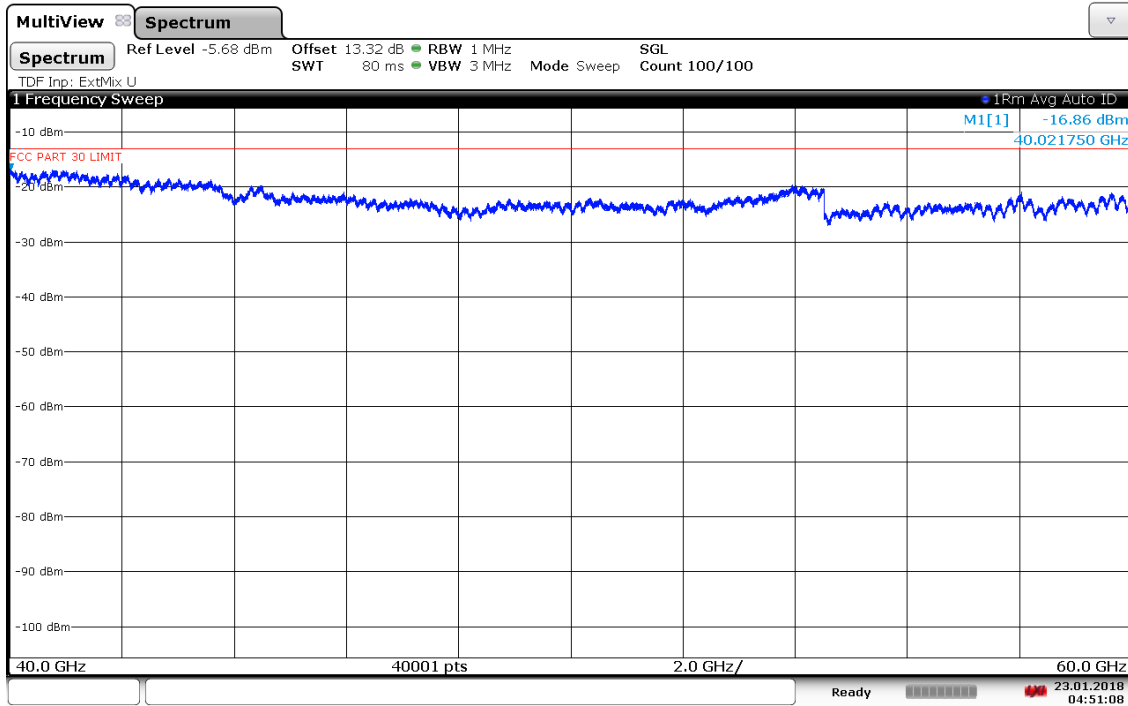
Plot 7-219. Radiated Spurious Plot 40-60 GHz (1CC QPSK High Channel)



04:35:38 23.01.2018

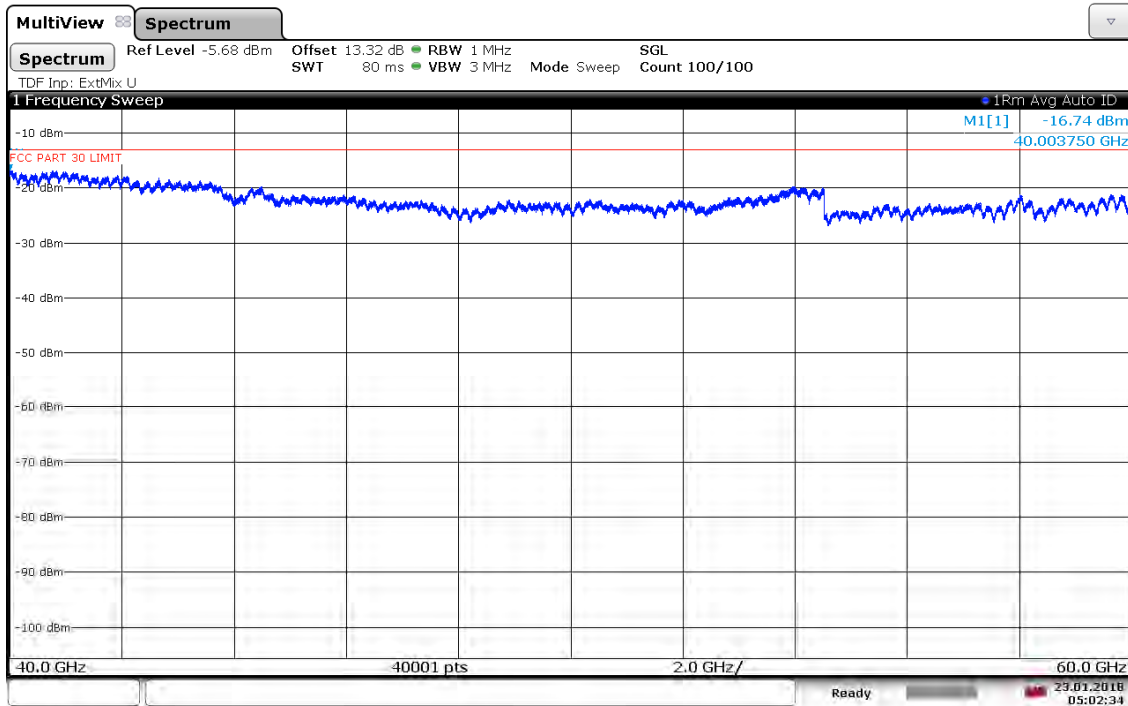
Plot 7-220. Radiated Spurious Plot 40-60 GHz (8CC QPSK Low Channel)

FCC ID: A3LSFG-AA100DC	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit	Page 143 of 222



04:51:09 23.01.2018

Plot 7-221. Radiated Spurious Plot 40-60 GHz (8CC QPSK Mid Channel)



05:02:35 23.01.2018

Plot 7-222. Radiated Spurious Plot 40-60 GHz (8CC QPSK High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit	Page 144 of 222

Frequency [MHz]	Detector/Trace	Channel	EUT Ant.	CC Active	Mod.	Ant. Pol. [degree]	Antenna Height [cm]	Measured EIRP [dBm]	EUT Antenna Gain [dBi]	Measurement Distance [m]	Calculated Conducted power [dBm]	Limit [dBm]	Margin [dB]
40826.00	Avg/Avg	Low	1+2+3+4	CC0	QPSK	135.00	154	-16.78	17.02	3.25	-33.80	-13.00	-20.80
40020.00	Avg/Avg	Mid	1+2+3+4	CC4	QPSK	135.00	154	-16.75	17.02	3.25	-33.77	-13.00	-20.77
40774.00	Avg/Avg	High	1+2+3+4	CC7	QPSK	135.00	154	-16.81	17.02	3.25	-33.83	-13.00	-20.83
40012.00	Avg/Avg	Low	1+2+3+4	CC0-CC7	QPSK	135.00	154	-16.92	17.02	3.25	-33.94	-13.00	-20.94
40021.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	135.00	154	-16.86	17.02	3.25	-33.88	-13.00	-20.88
40003.00	Avg/Avg	High	1+2+3+4	CC0-CC7	QPSK	135.00	154	-16.74	17.02	3.25	-33.76	-13.00	-20.76

Table 7-21. Spurious Emissions (40 – 60GHz)

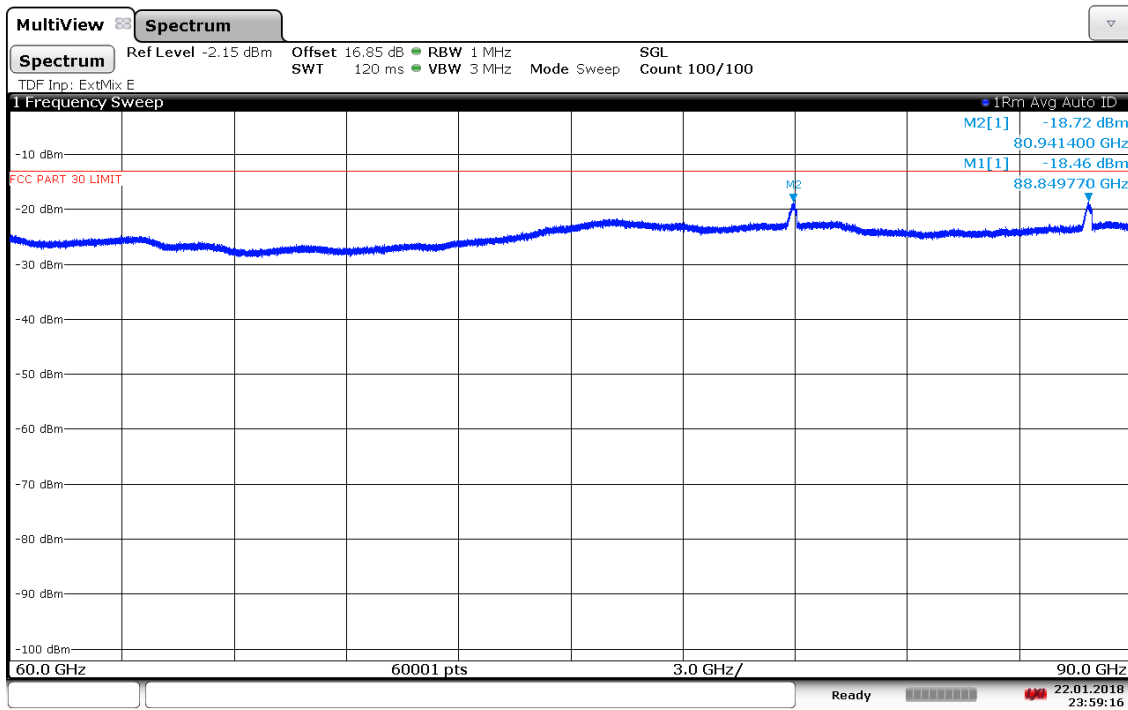
Minimum Far Field Distance Sample Calculation

$$\text{Far Field [m]} = 2 * (0.09\text{m})^2 / (300/60000)$$

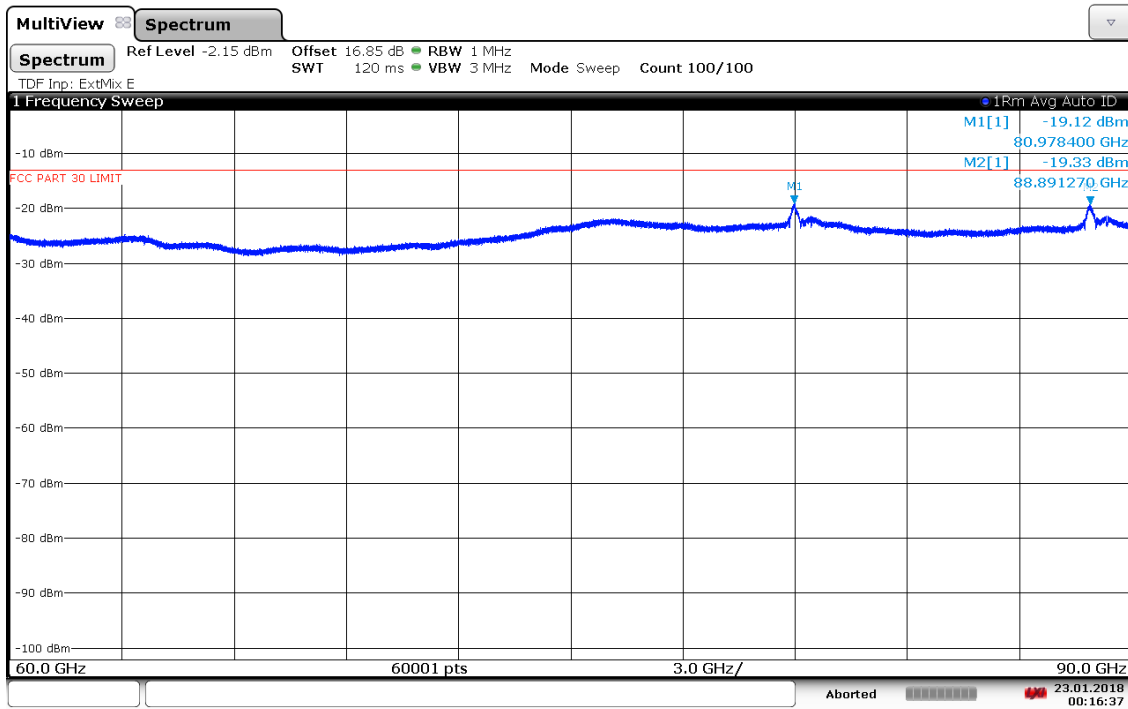
$$= 3.24\text{m}$$

FCC ID: A3LSFG-AA100DC		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 145 of 222

7.5.6 Radiated Spurious Emissions Plots (60 – 90GHz)

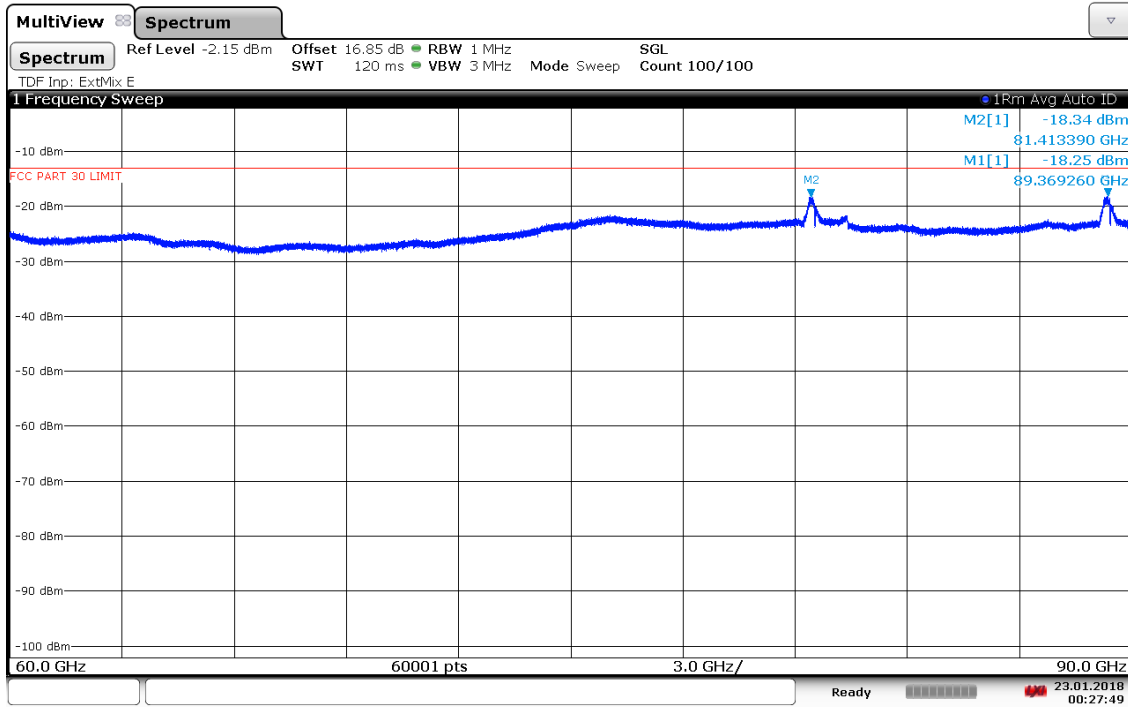


Plot 7-223. Radiated Spurious Plot 60-90 GHz (1CC QPSK Low Channel)



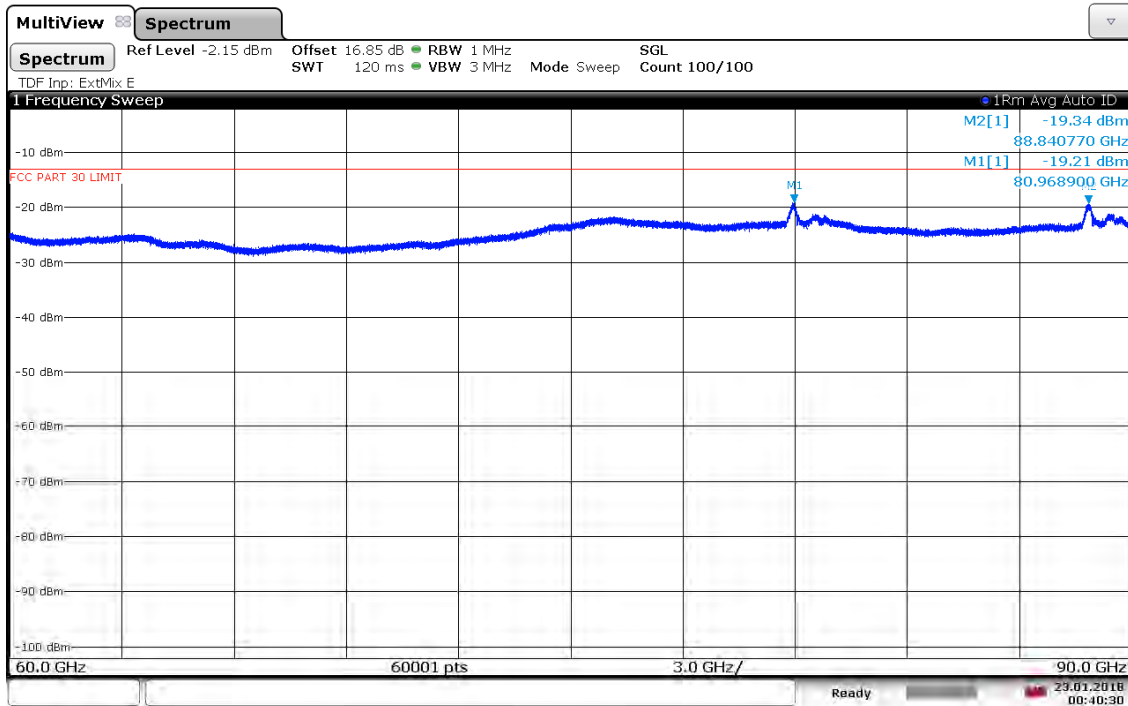
Plot 7-224. Radiated Spurious Plot 60-90 GHz (1CC QPSK Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 146 of 222



00:27:50 23.01.2018

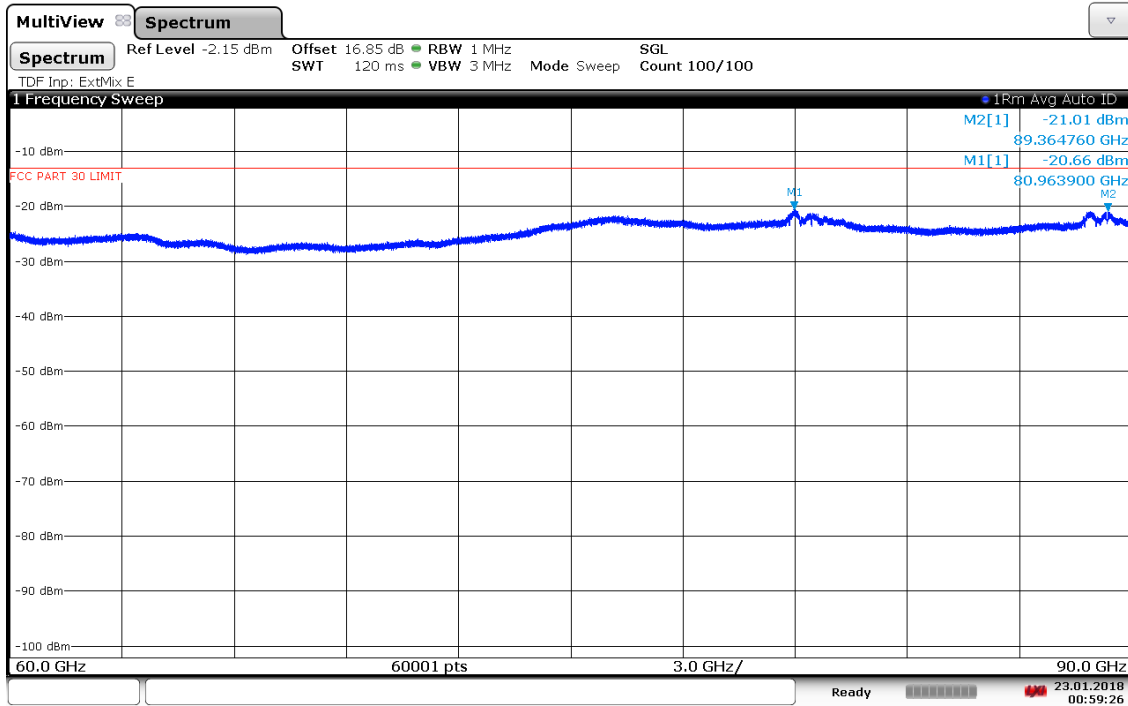
Plot 7-225. Radiated Spurious Plot 60-90 GHz (1CC QPSK High Channel)



00:40:30 23.01.2018

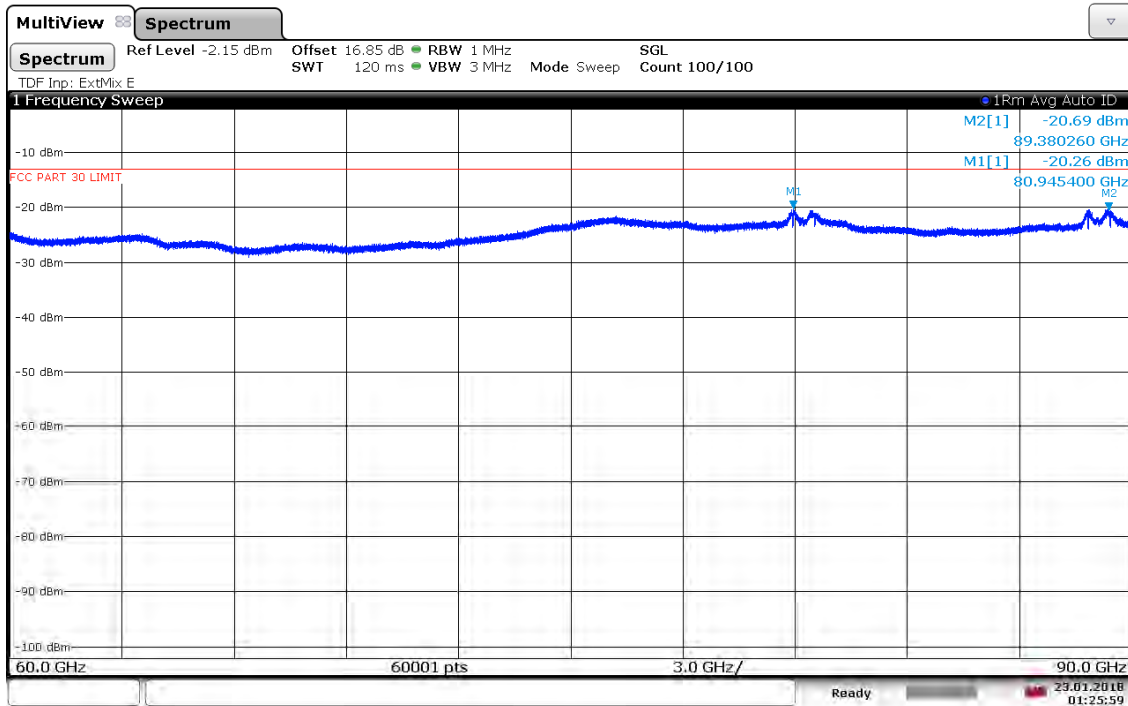
Plot 7-226. Radiated Spurious Plot 60-90 GHz (8CC QPSK Low Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 147 of 222



00:59:27 23.01.2018

Plot 7-227. Radiated Spurious Plot 60-90 GHz (8CC QPSK Mid Channel)



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Plot 7-228. Radiated Spurious Plot 60-90 GHz (8CC QPSK High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 148 of 222

Frequency [MHz]	Detector/Trace	Channel	EUT Ant.	CC Active	Mod.	Ant. Pol. [degree]	Antenna Height [cm]	Measured EIRP [dBm]	EUT Antenna Gain [dBi]	Measurement Distance [m]	Calculated Conducted power [dBm]	Limit [dBm]	Margin [dB]
88849.00	Avg/Avg	Low	1+2+3+4	CC0	QPSK	135.00	154	-18.46	13.95	4.86	-32.41	-13.00	-19.41
80978.00	Avg/Avg	Mid	1+2+3+4	CC4	QPSK	135.00	154	-19.12	13.95	4.86	-33.07	-13.00	-20.07
89369.00	Avg/Avg	High	1+2+3+4	CC7	QPSK	135.00	121	-18.25	13.95	4.86	-32.20	-13.00	-19.20
80968.00	Avg/Avg	Low	1+2+3+4	CC0-CC7	QPSK	135.00	121	-19.21	13.95	4.86	-33.16	-13.00	-20.16
80963.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	135.00	121	-20.66	13.95	4.86	-34.61	-13.00	-21.61
80945.00	Avg/Avg	High	1+2+3+4	CC0-CC7	QPSK	135.00	121	-20.26	13.95	4.86	-34.21	-13.00	-21.21

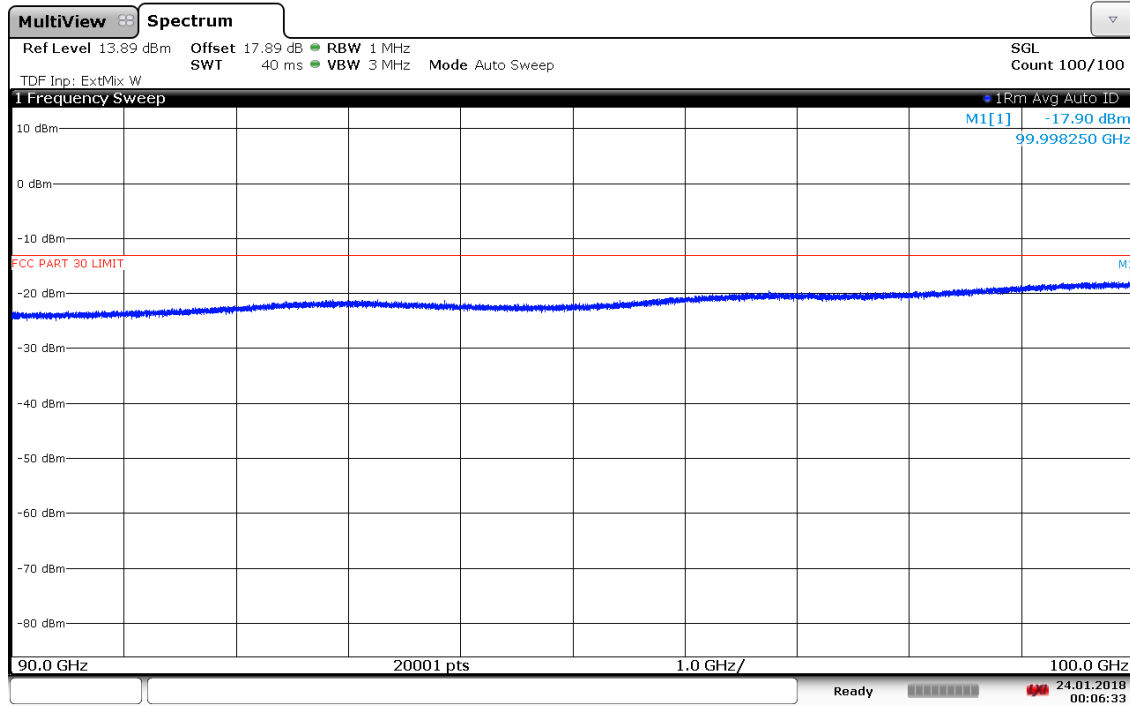
Table 7-22. Spurious Emissions (60 – 90GHz)

Minimum Far Field Distance Sample Calculation

$$\begin{aligned} \text{Far Field [m]} &= 2 * (0.09\text{m})^2 / (300/90000) \\ &= 4.86\text{m} \end{aligned}$$

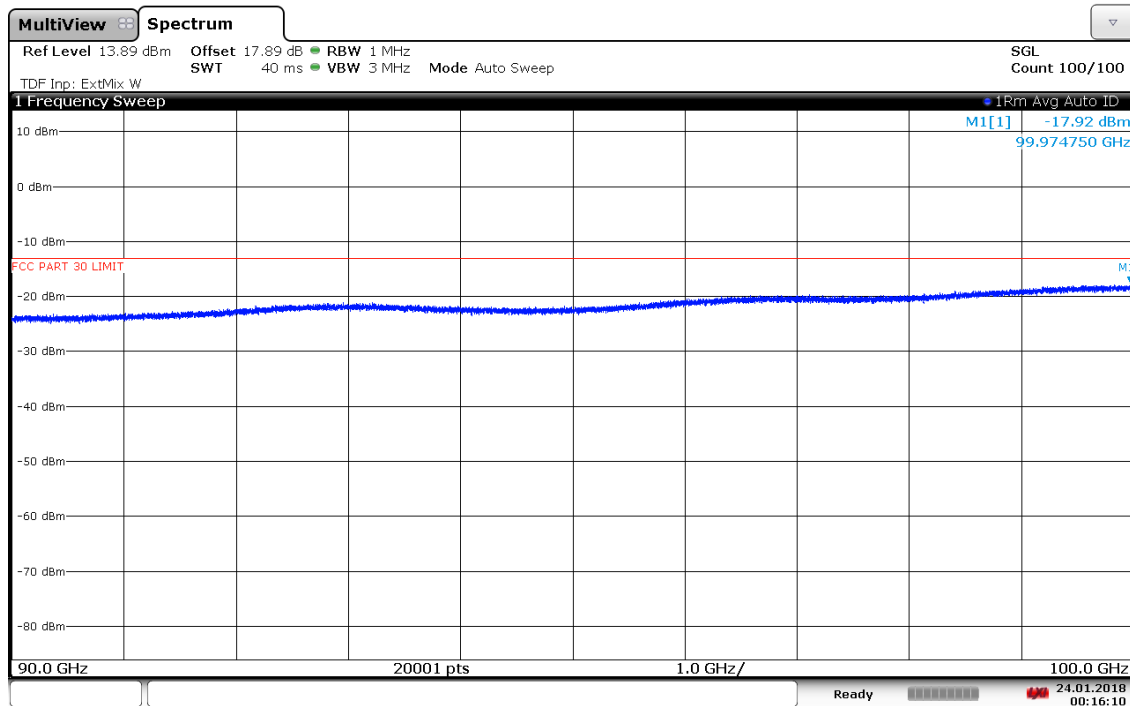
FCC ID: A3LSFG-AA100DC		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 149 of 222

7.5.7 Radiated Spurious Emissions Plots (90 – 100GHz)



00:06:34 24.01.2018

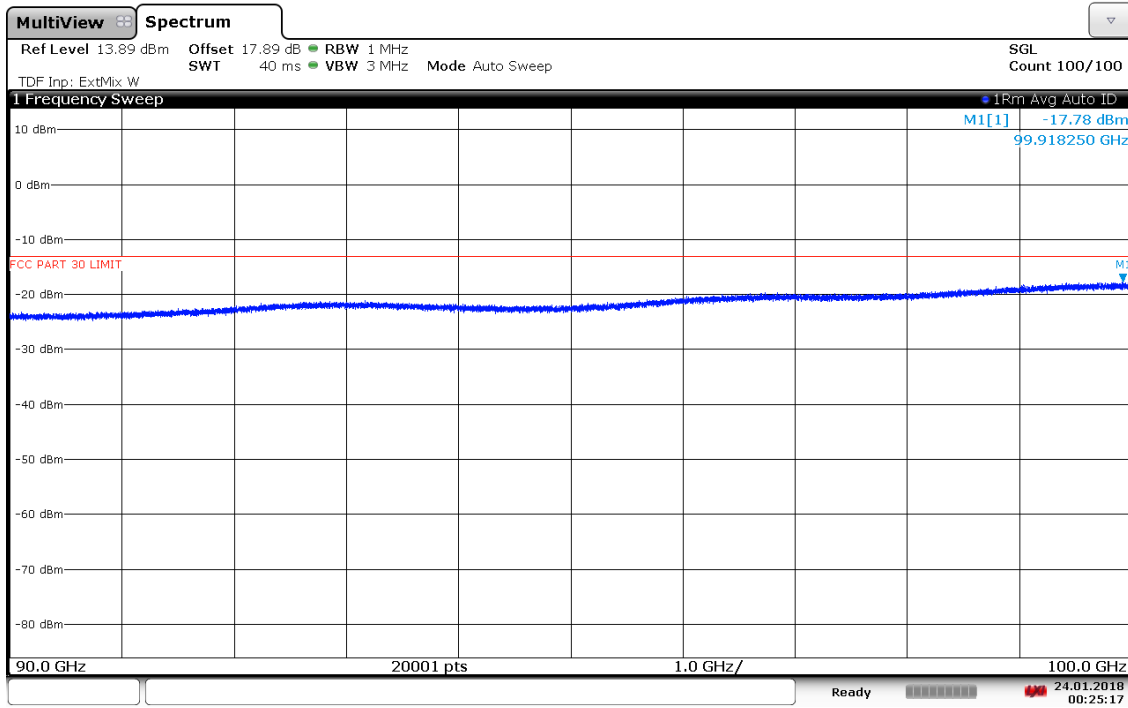
Plot 7-229. Radiated Spurious Plot 90-100 GHz (1CC QPSK Low Channel)



00:16:11 24.01.2018

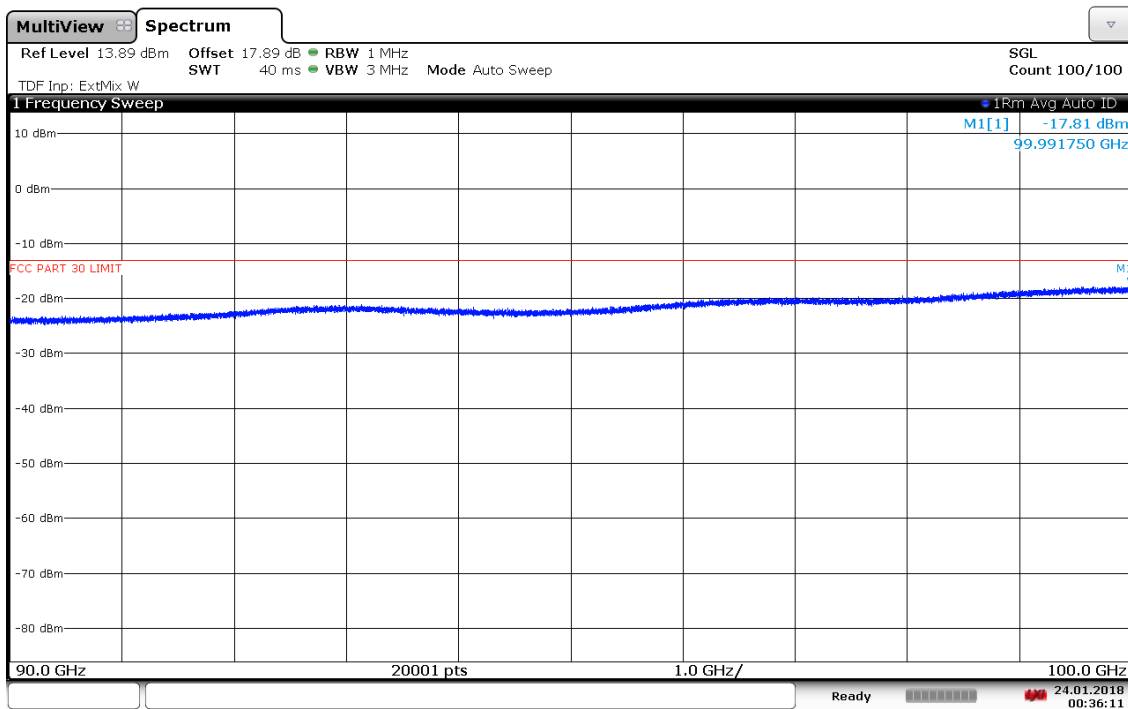
Plot 7-230. Radiated Spurious Plot 90-100 GHz (1CC QPSK Mid Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit	Page 150 of 222



00:25:17 24.01.2018

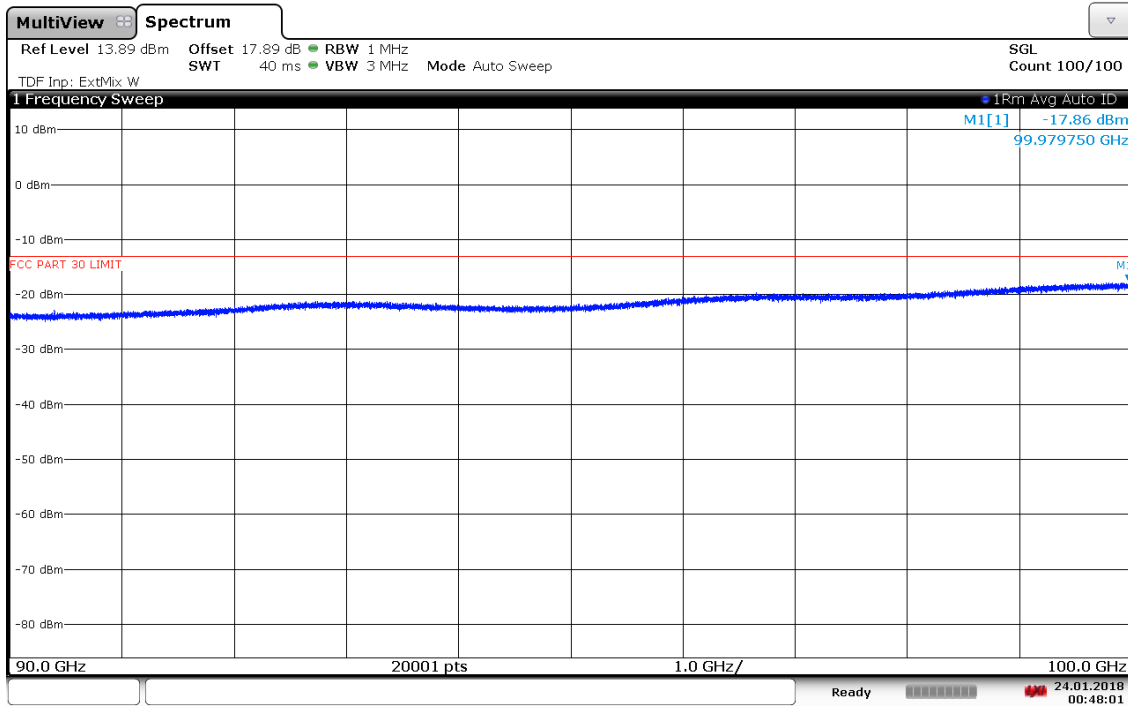
Plot 7-231. Radiated Spurious Plot 90-100 GHz (1CC QPSK High Channel)



00:36:11 24.01.2018

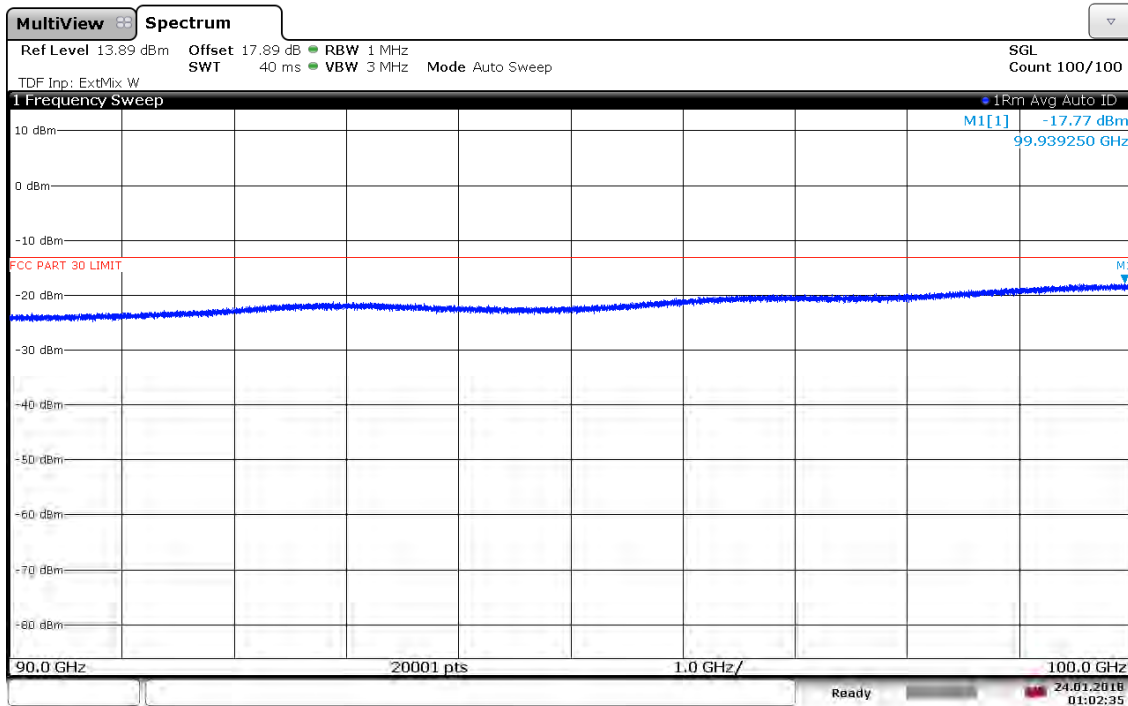
Plot 7-232. Radiated Spurious Plot 90-100 GHz (8CC QPSK Low Channel)

FCC ID: A3LSFG-AA100DC	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit	Page 151 of 222



00:48:01 24.01.2018

Plot 7-233. Radiated Spurious Plot 90-100 GHz (8CC QPSK Mid Channel)



01:02:35 24.01.2018

Plot 7-234. Radiated Spurious Plot 90-100 GHz (8CC QPSK High Channel)

FCC ID: A3LSFG-AA100DC	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 152 of 222

Frequency [MHz]	Detector/Trace	Channel	EUT Ant.	CC Active	Mod.	Ant. Pol. [degree]	Antenna Height [cm]	Measured EIRP [dBm]	EUT Antenna Gain [dBi]	Measurement Distance [m]	Calculated Conducted power [dBm]	Limit [dBm]	Margin [dB]
99998.00	Avg/Avg	Low	1+2+3+4	CC0	QPSK	135.00	121	-17.90	19.58	5.40	-37.48	-13.00	-24.48
99974.00	Avg/Avg	Mid	1+2+3+4	CC4	QPSK	135.00	121	-17.92	19.58	5.40	-37.50	-13.00	-24.50
99918.00	Avg/Avg	High	1+2+3+4	CC7	QPSK	135.00	121	-17.78	19.58	5.40	-37.36	-13.00	-24.36
99991.00	Avg/Avg	Low	1+2+3+4	CC0-CC7	QPSK	135.00	121	-17.81	19.58	5.40	-37.39	-13.00	-24.39
99979.00	Avg/Avg	Mid	1+2+3+4	CC0-CC7	QPSK	135.00	121	-17.86	19.58	5.40	-37.44	-13.00	-24.44
99939.00	Avg/Avg	High	1+2+3+4	CC0-CC7	QPSK	135.00	121	-17.77	19.58	5.40	-37.35	-13.00	-24.35

Table 7-23. Spurious Emissions (90 – 100GHz)

Minimum Far Field Distance Sample Calculation

$$\text{Far Field [m]} = 2 * (0.09\text{m})^2 / (300/100000)$$

$$= 5.40\text{m}$$

FCC ID: A3LSFG-AA100DC		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1712270338-01-R1.A3L	Test Dates: 1/2-2/3/2018	EUT Type: 5G Access Unit		Page 153 of 222